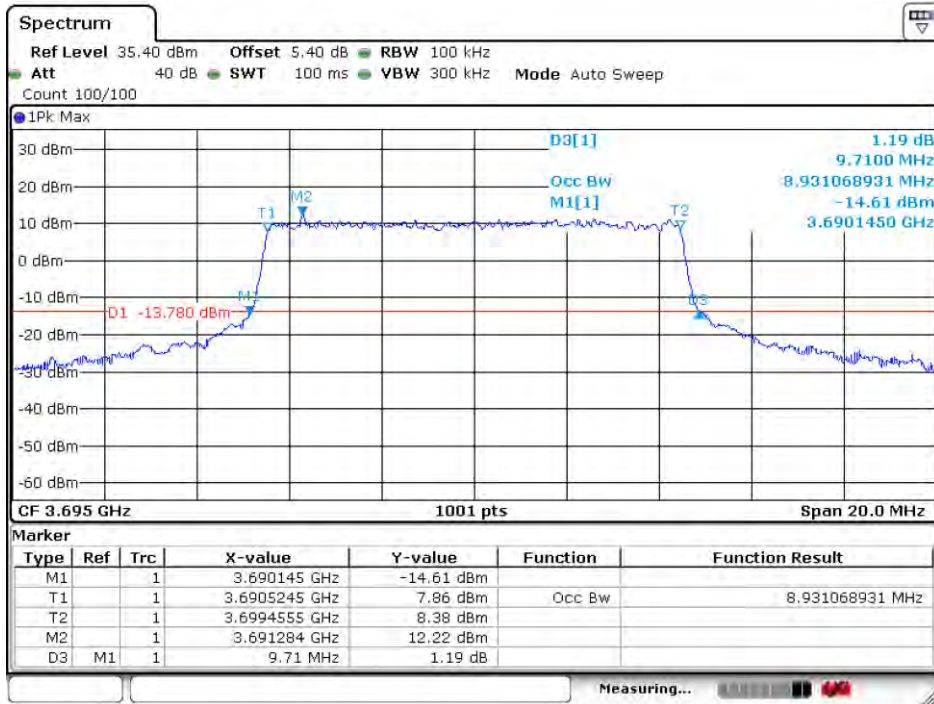


**Band48-10MHz-64QAM-56690-50RB#0**



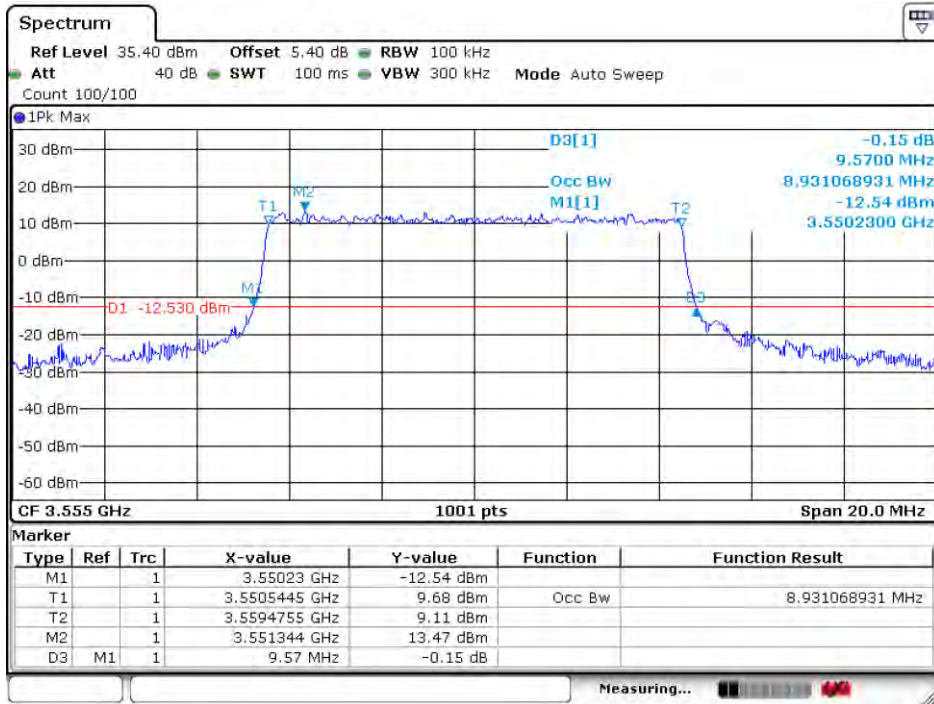
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**Band48-10MHz-16QAM-55290-50RB#0**

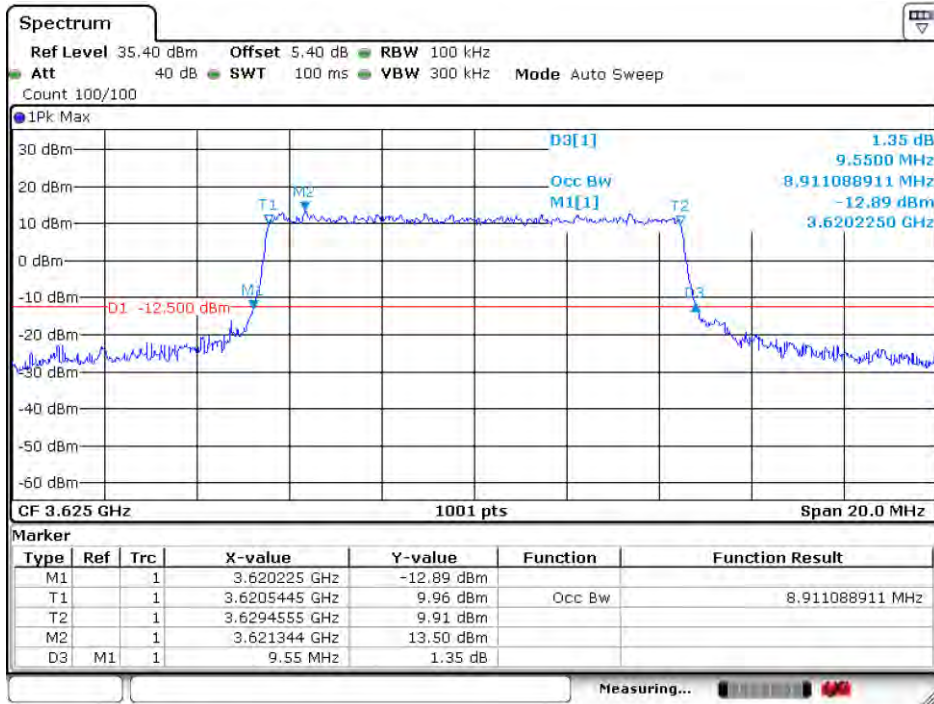


Date: 11.MAY.2021 22:06:56



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**Band48-10MHz-16QAM-55990-50RB#0**

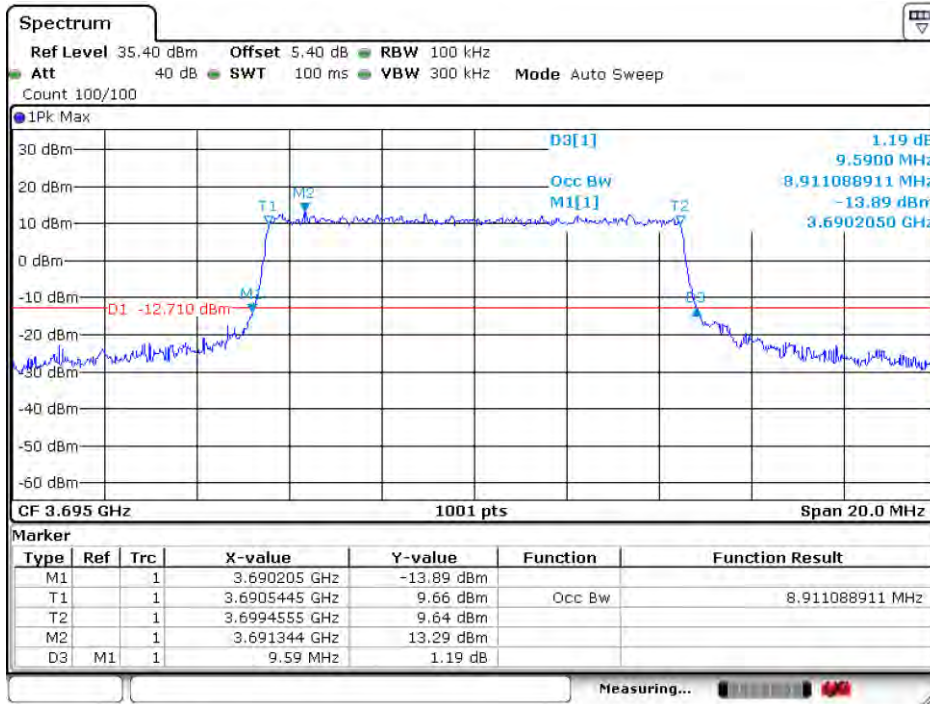


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Band48-10MHz-16QAM-56690-50RB#0



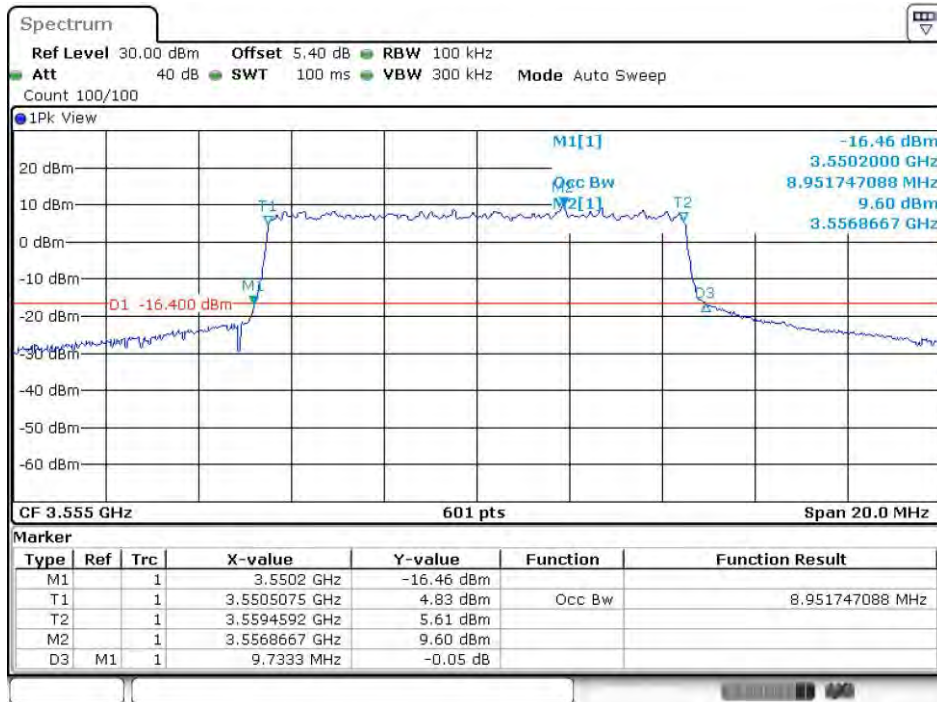
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Band48-10MHz-256QAM-55290-50RB#0



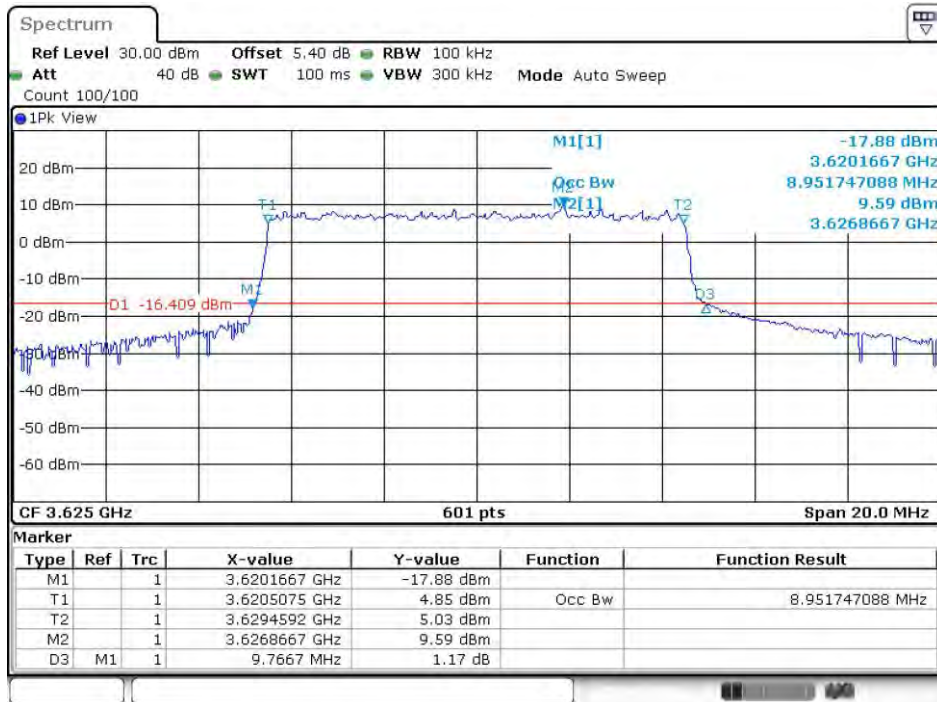
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Band48-10MHz-256QAM-55990-50RB#0



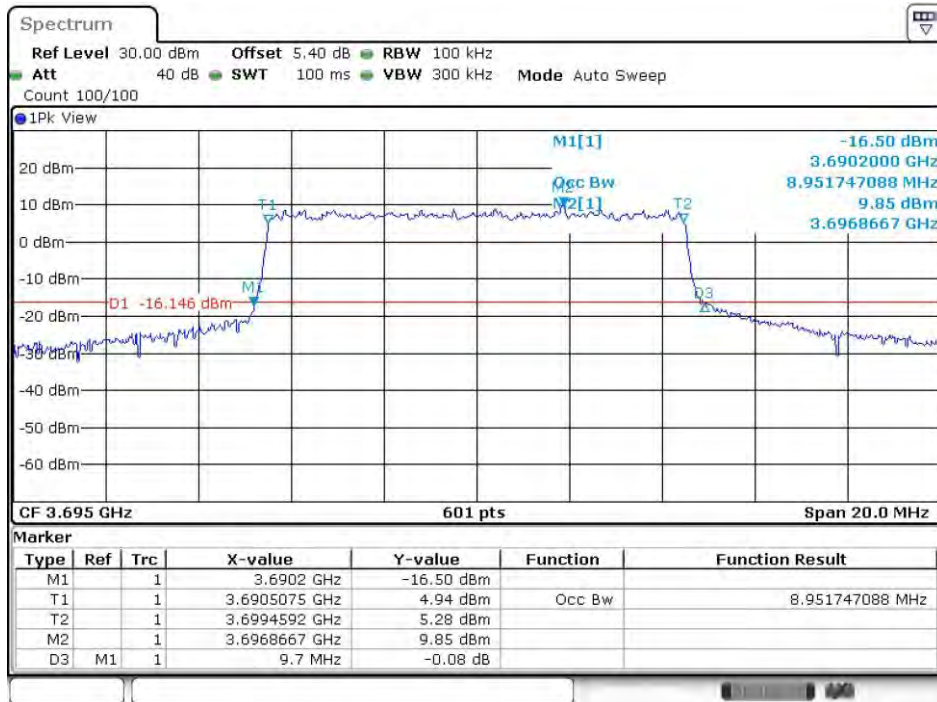
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Band48-10MHz-256QAM-56690-50RB#0



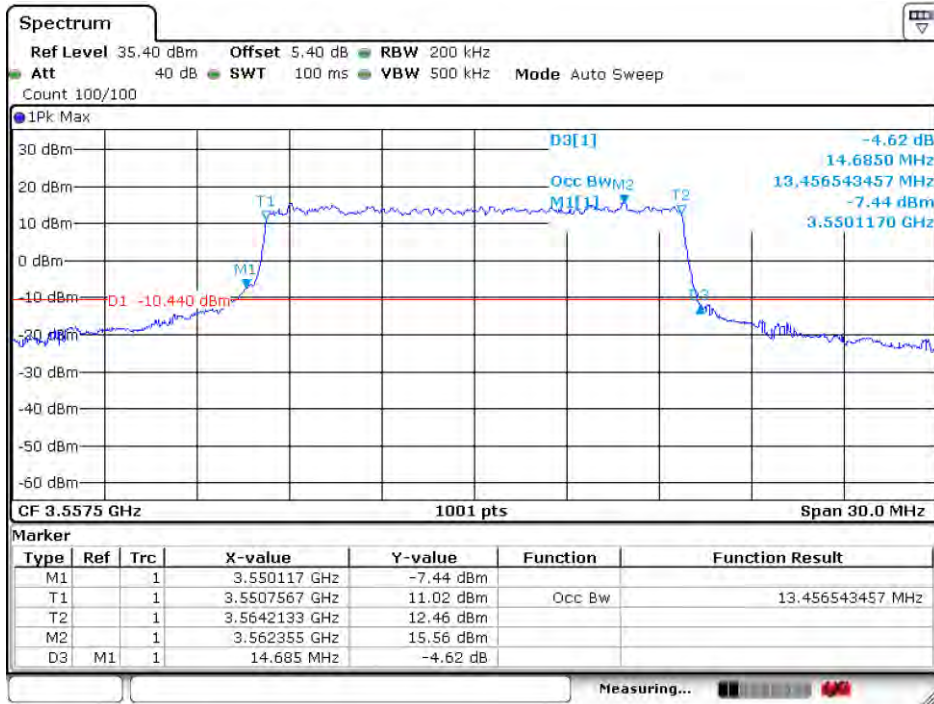
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**Band48-15MHz-QPSK-55315-75RB#0**



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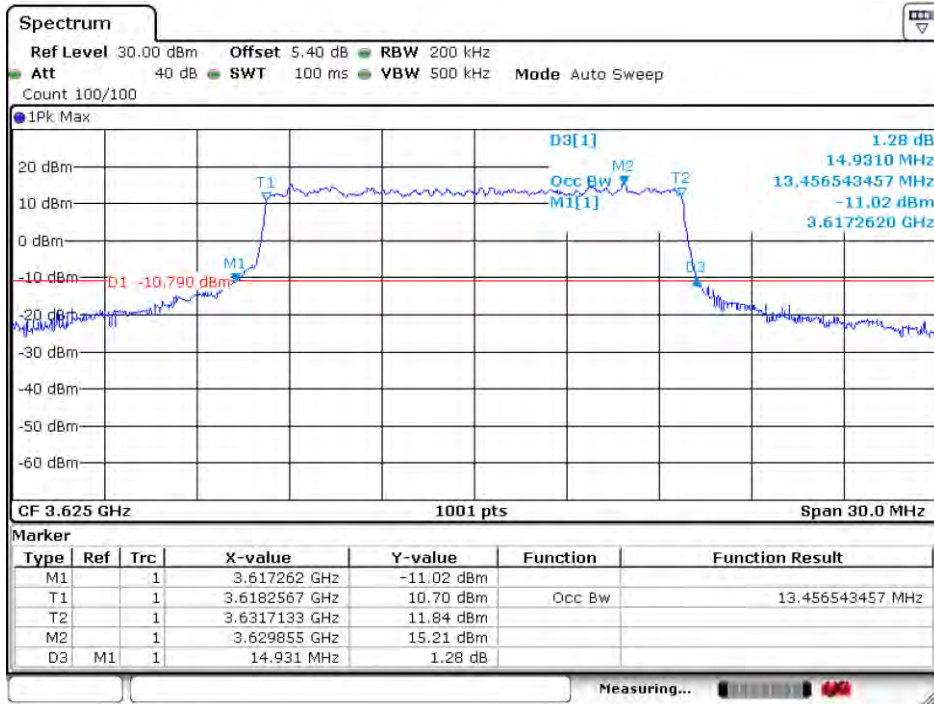


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**Band48-15MHz-QPSK-55990-75RB#0**



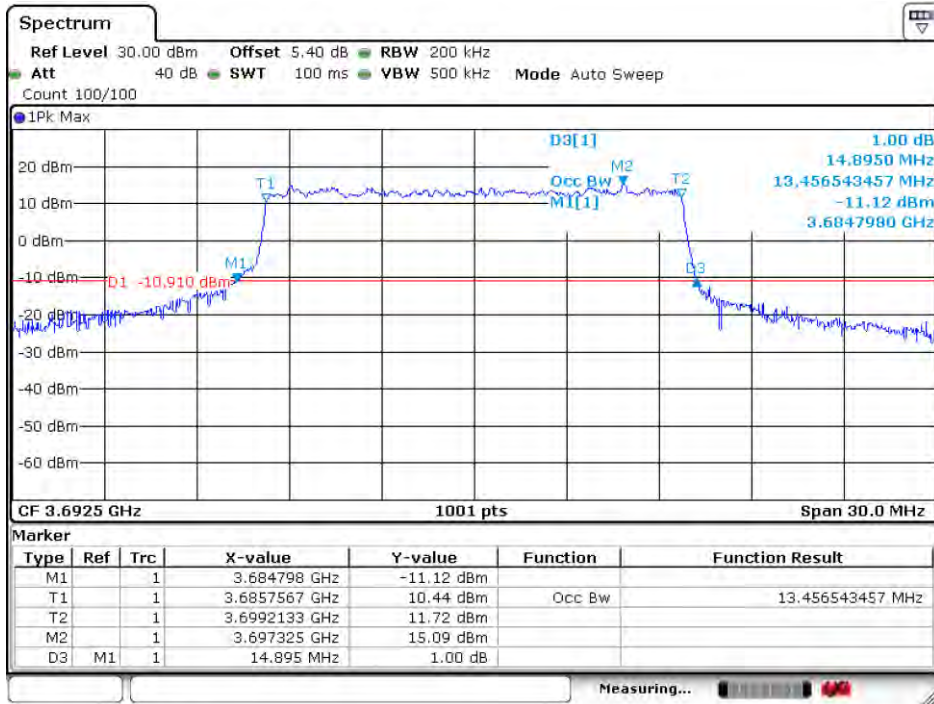
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**Band48-15MHz-QPSK-56665-75RB#0**



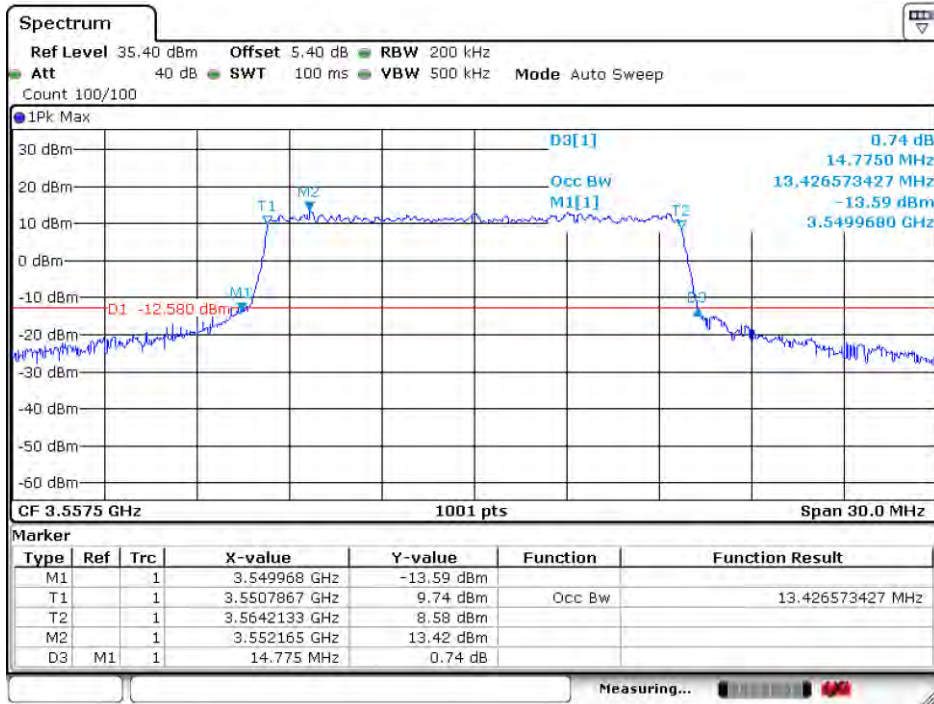
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**Band48-15MHz-64QAM-55315-75RB#0**



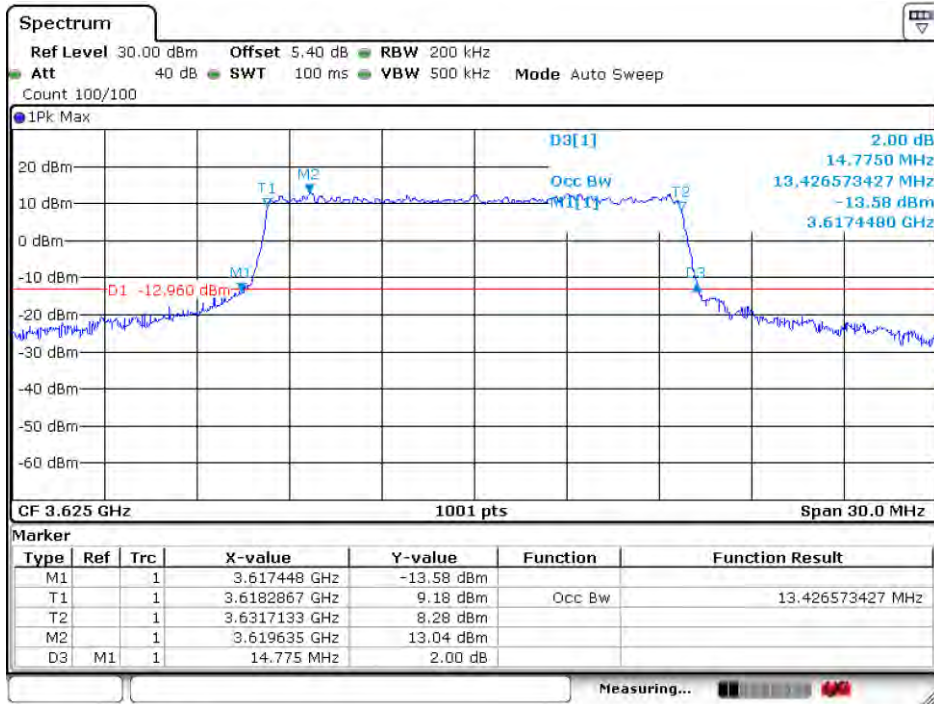
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**Band48-15MHz-64QAM-55990-75RB#0**

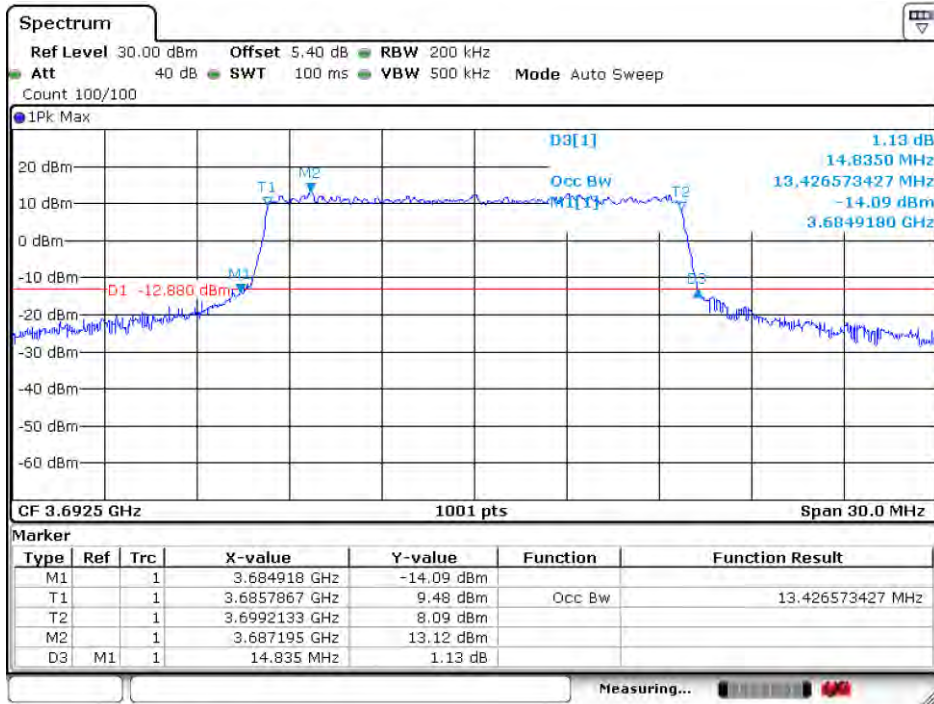


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**Band48-15MHz-64QAM-56665-75RB#0**



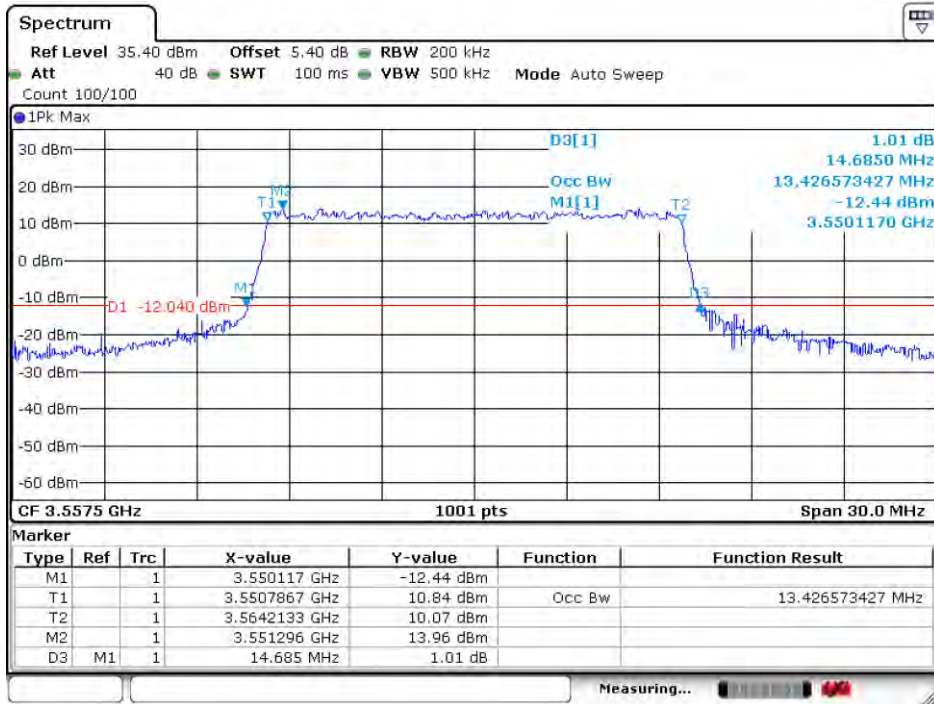
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**Band48-15MHz-16QAM-55315-75RB#0**



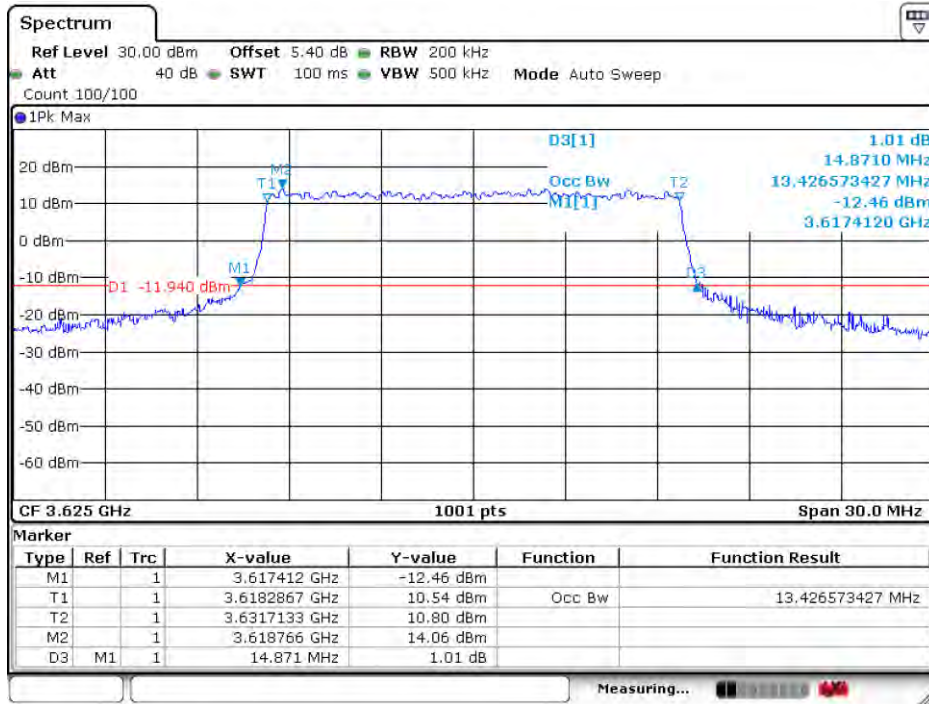
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Band48-15MHz-16QAM-55990-75RB#0



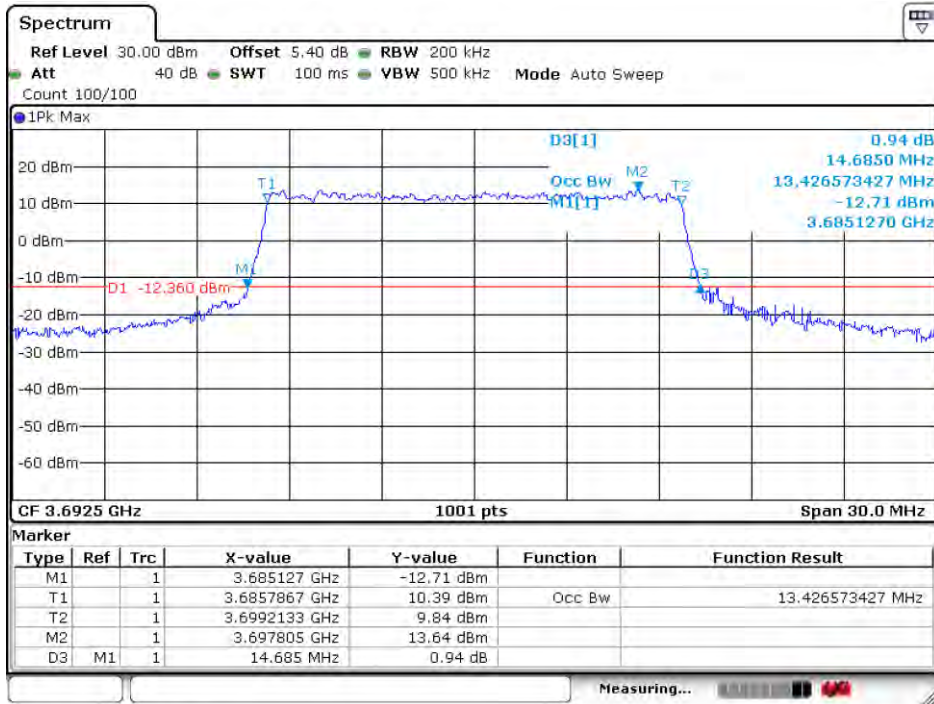
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**Band48-15MHz-16QAM-56665-75RB#0**



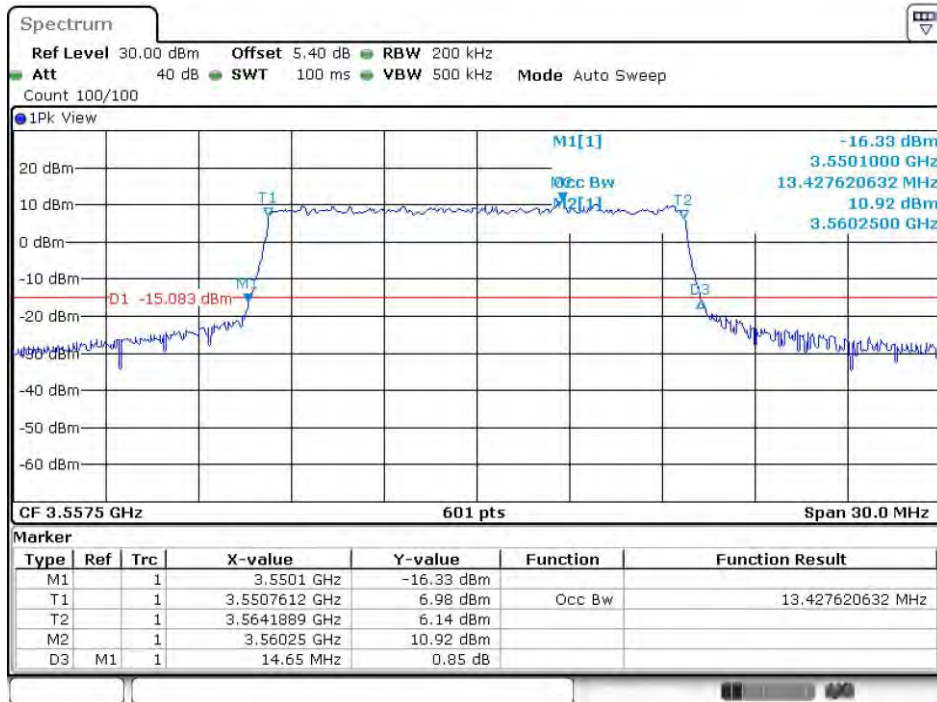
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Band48-15MHz-256QAM-55315-75RB#0

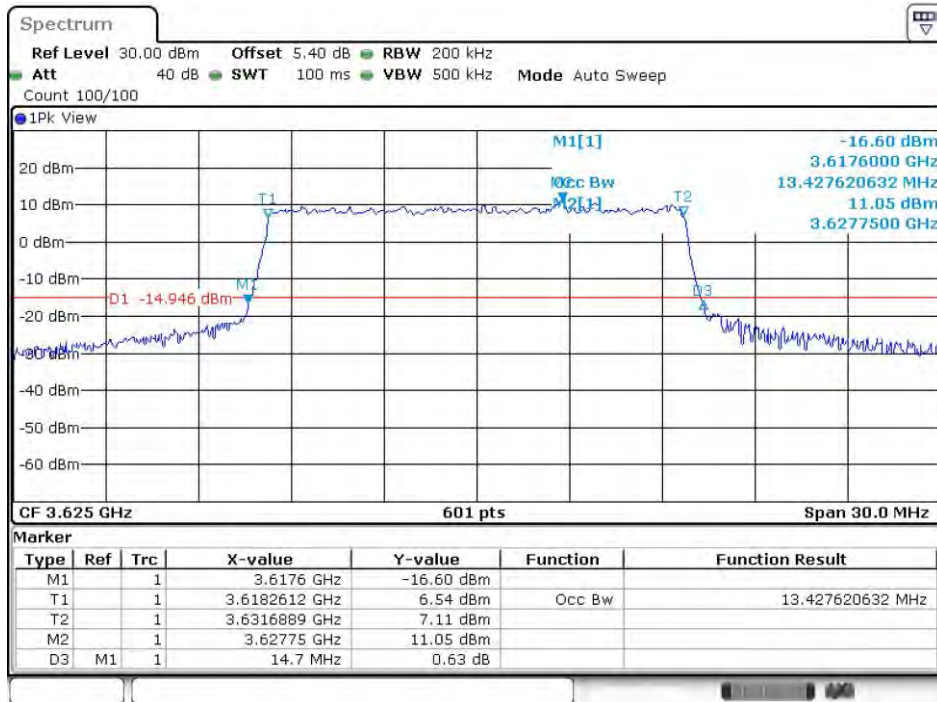


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Band48-15MHz-256QAM-55990-75RB#0



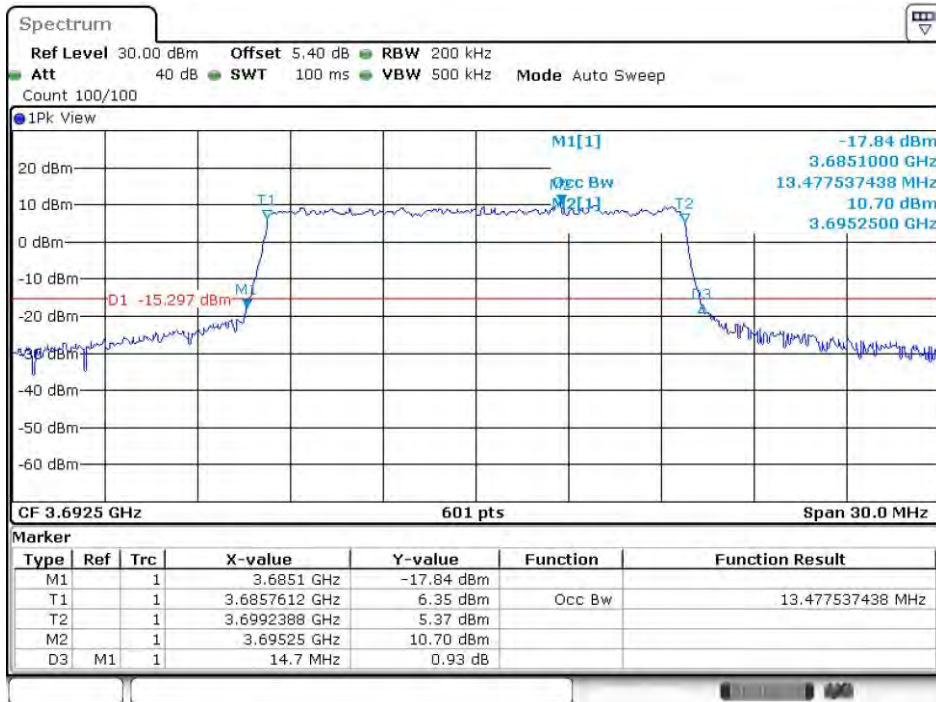
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Band48-15MHz-256QAM-56665-75RB#0



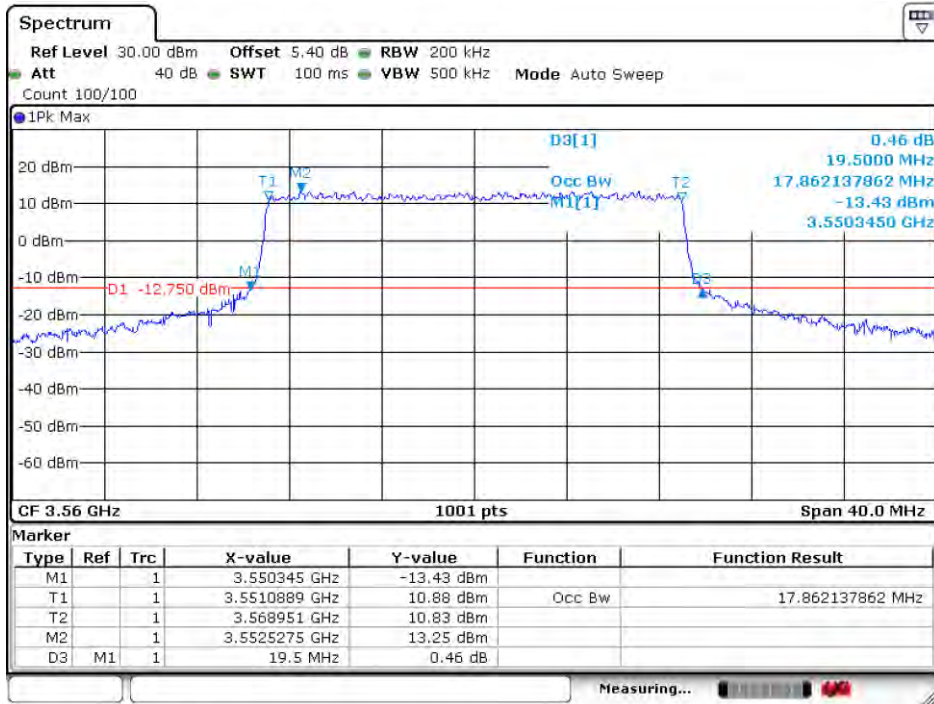
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Band48-20MHz-QPSK-55340-100RB#0



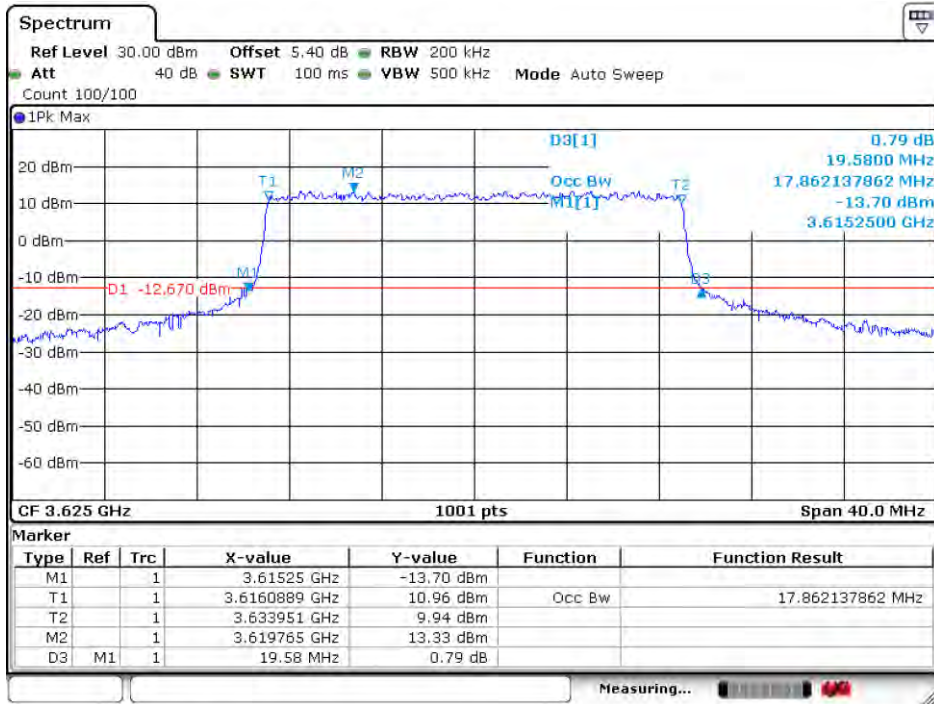
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**Band48-20MHz-QPSK-55990-100RB#0**



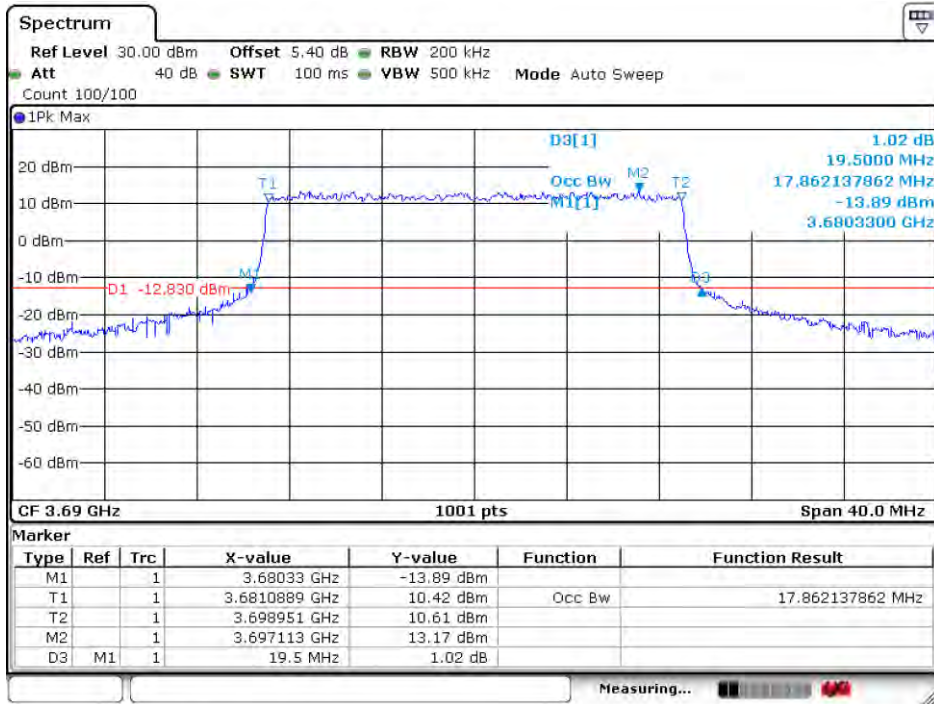
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**Band48-20MHz-QPSK-56640-100RB#0**



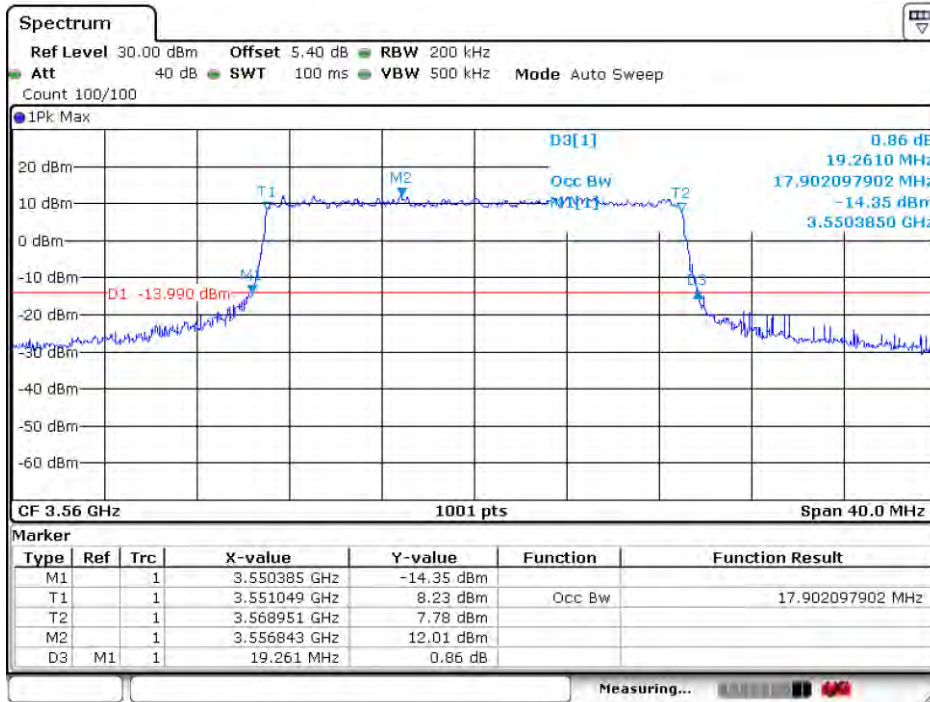
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Band48-20MHz-64QAM-55340-100RB#0



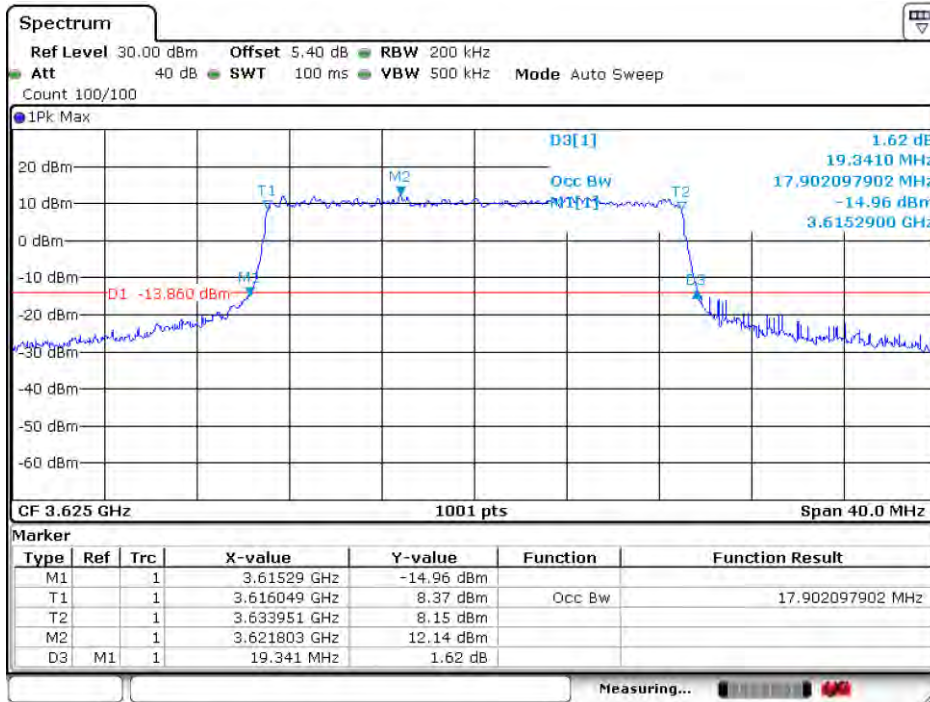
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Band48-20MHz-64QAM-55990-100RB#0



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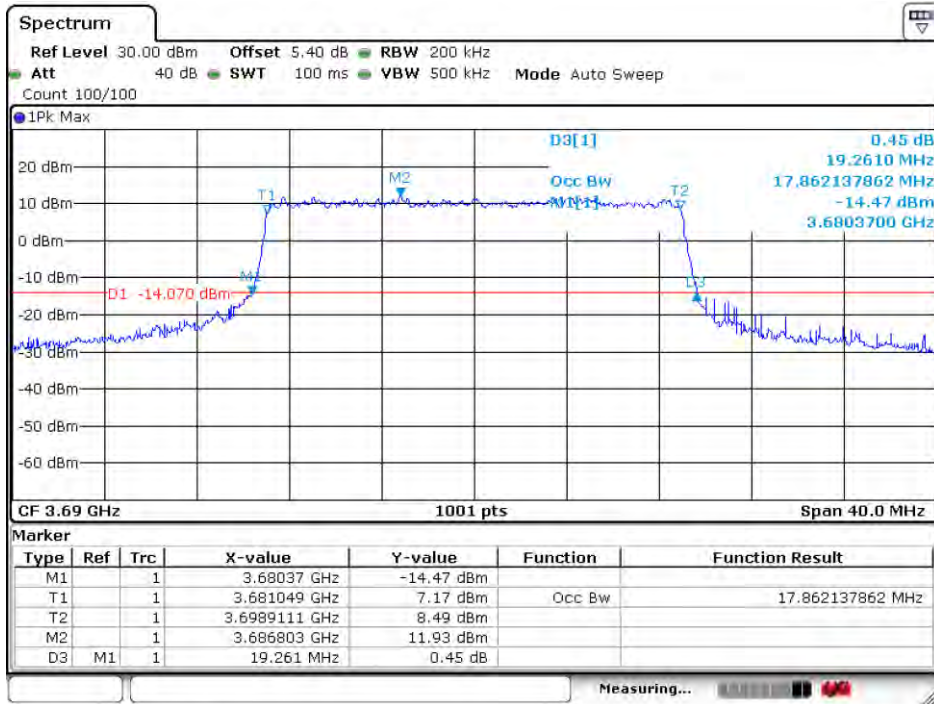


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Band48-20MHz-64QAM-56640-100RB#0

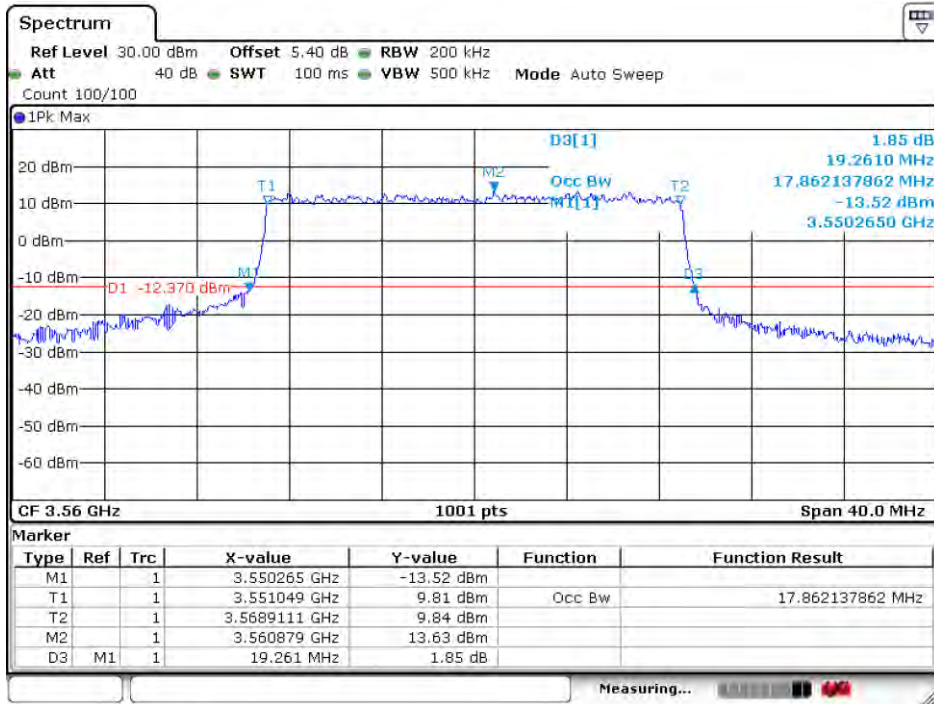


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Band48-20MHz-16QAM-55340-100RB#0



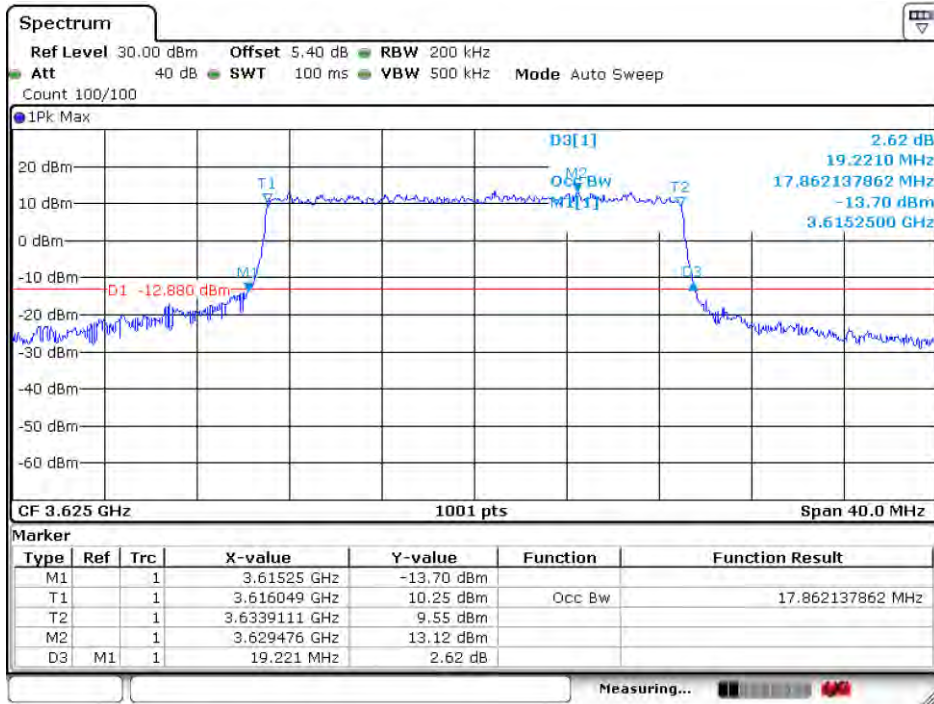
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Band48-20MHz-16QAM-55990-100RB#0

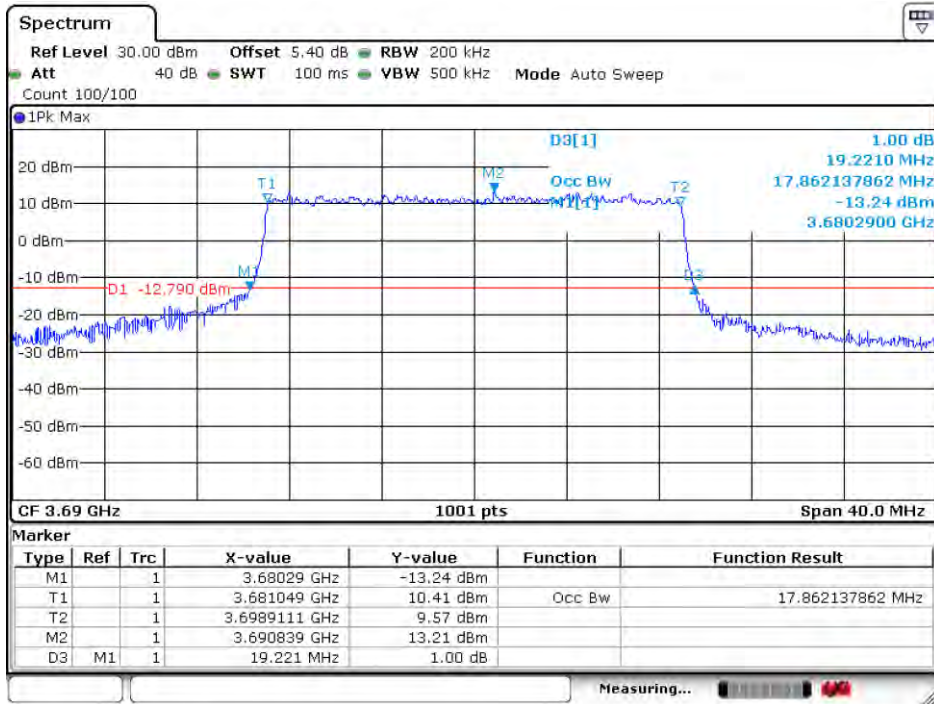


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Band48-20MHz-16QAM-56640-100RB#0



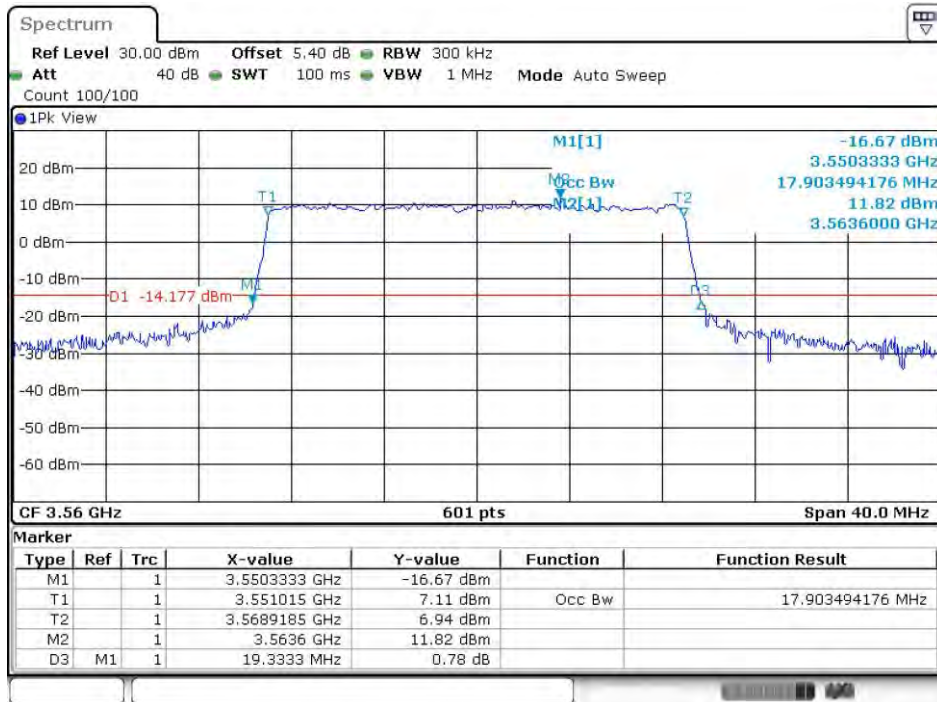
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**Band48-20MHz-256QAM-55340-100RB#0**

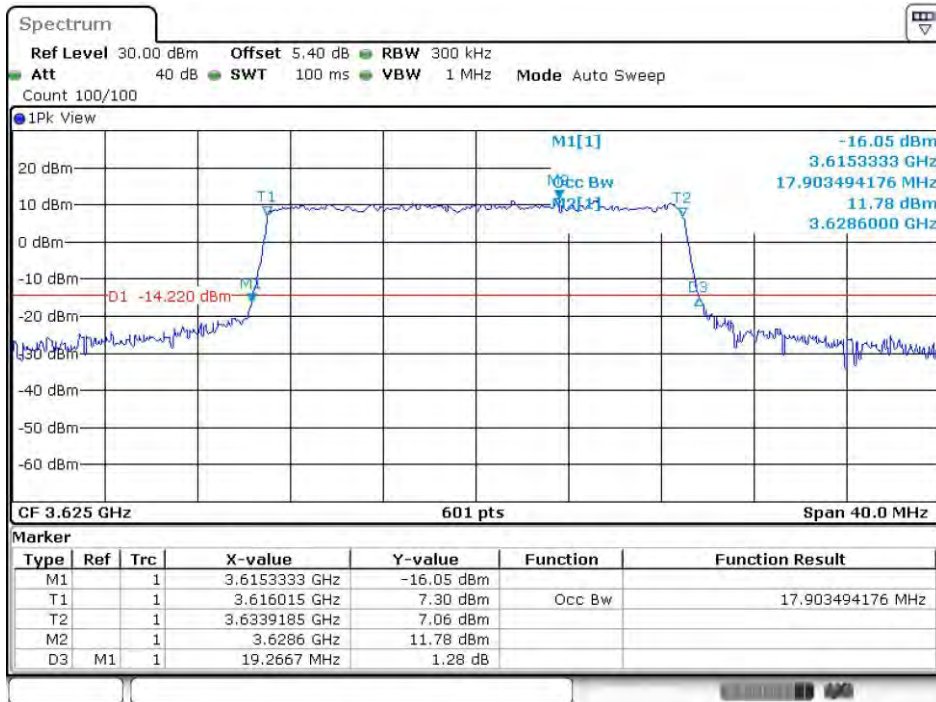


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**Band48-20MHz-256QAM-55990-100RB#0**

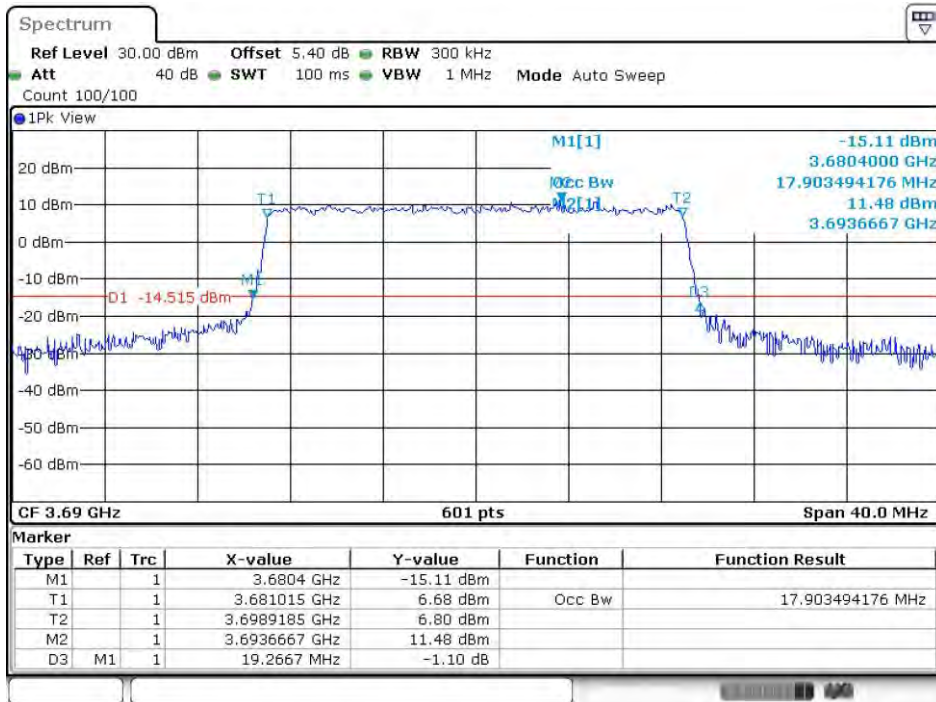


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**Band48-20MHz-256QAM-56640-100RB#0**



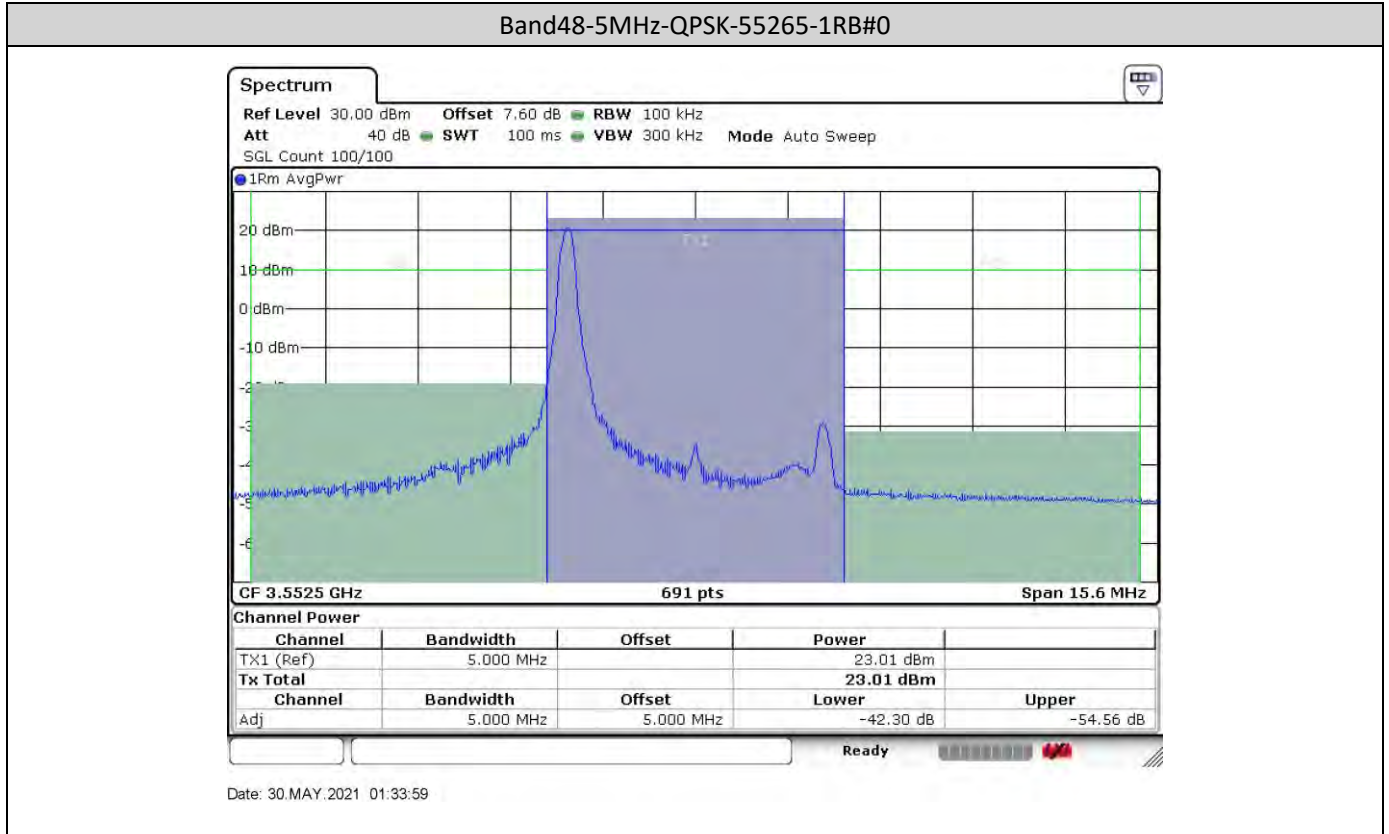
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## 5. Adjacent Channel Leakage Power

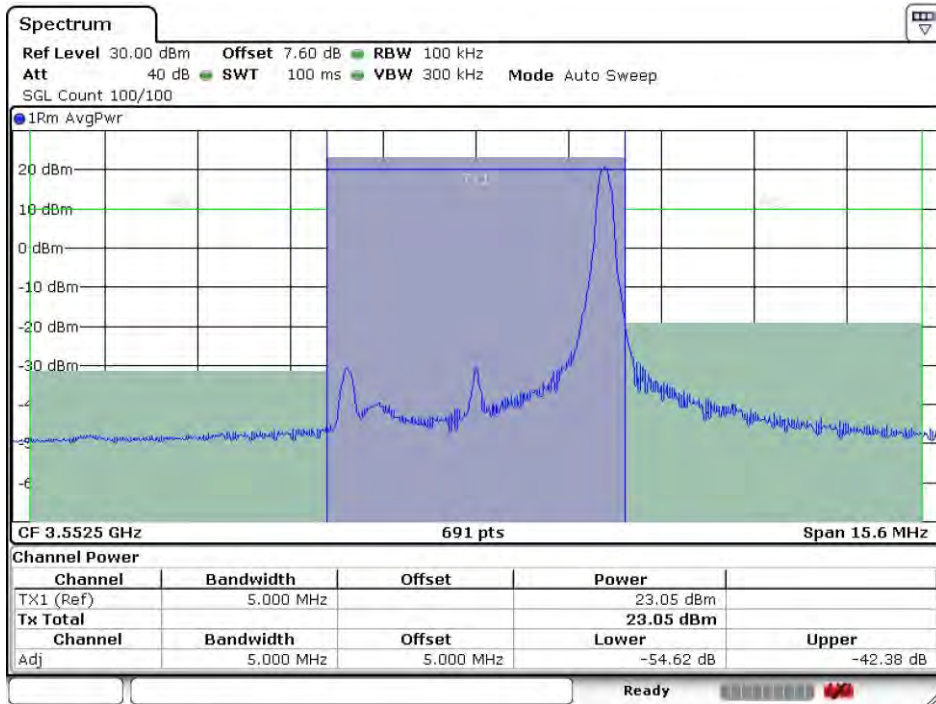
### 5.1. Test Plots



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**Band48-5MHz-QPSK-55265-1RB#24**



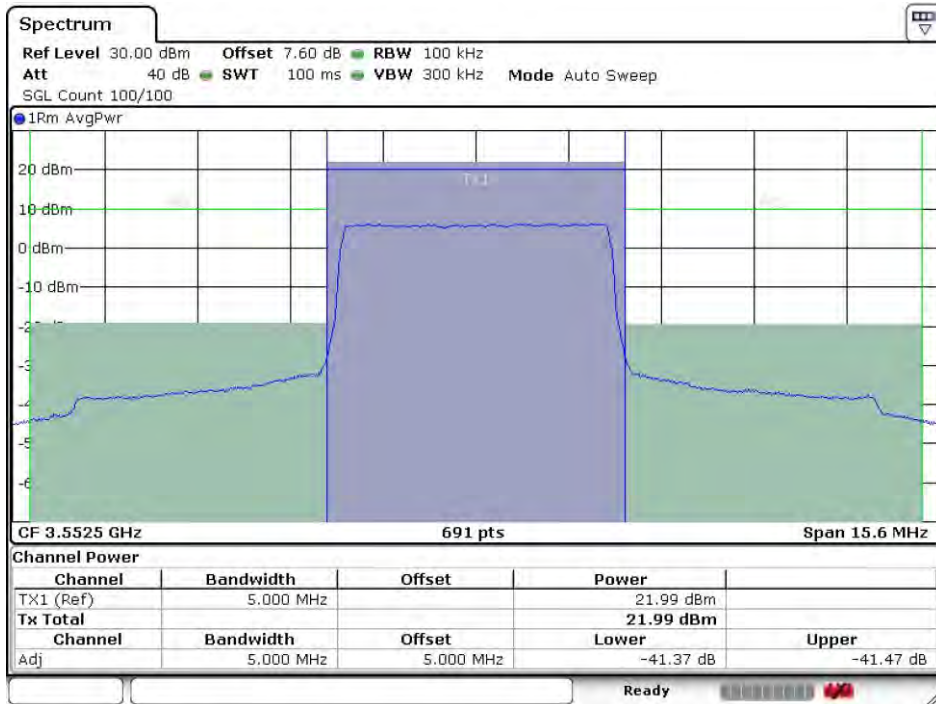
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**Band48-5MHz-QPSK-55265-25RB#0**



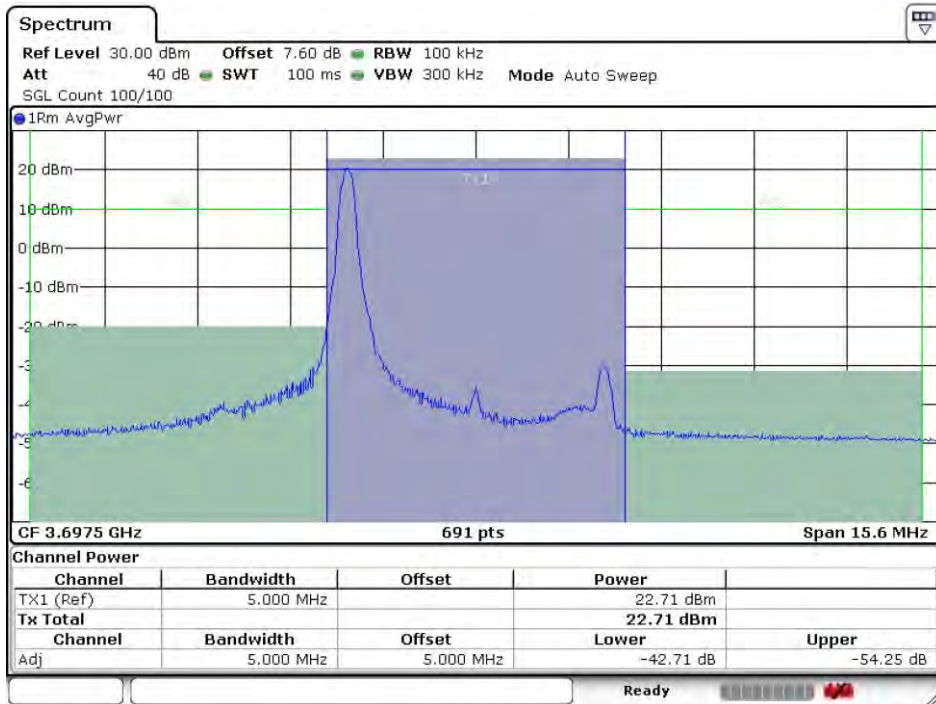
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Band48-5MHz-QPSK-56715-1RB#0



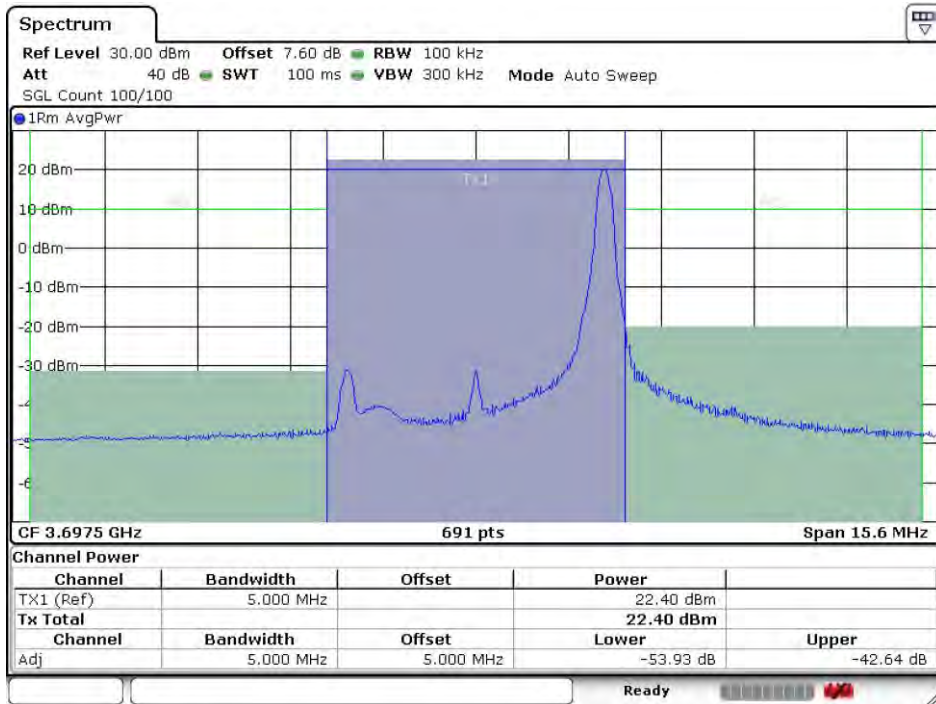
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**Band48-5MHz-QPSK-56715-1RB#24**



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**Band48-5MHz-QPSK-56715-25RB#0**



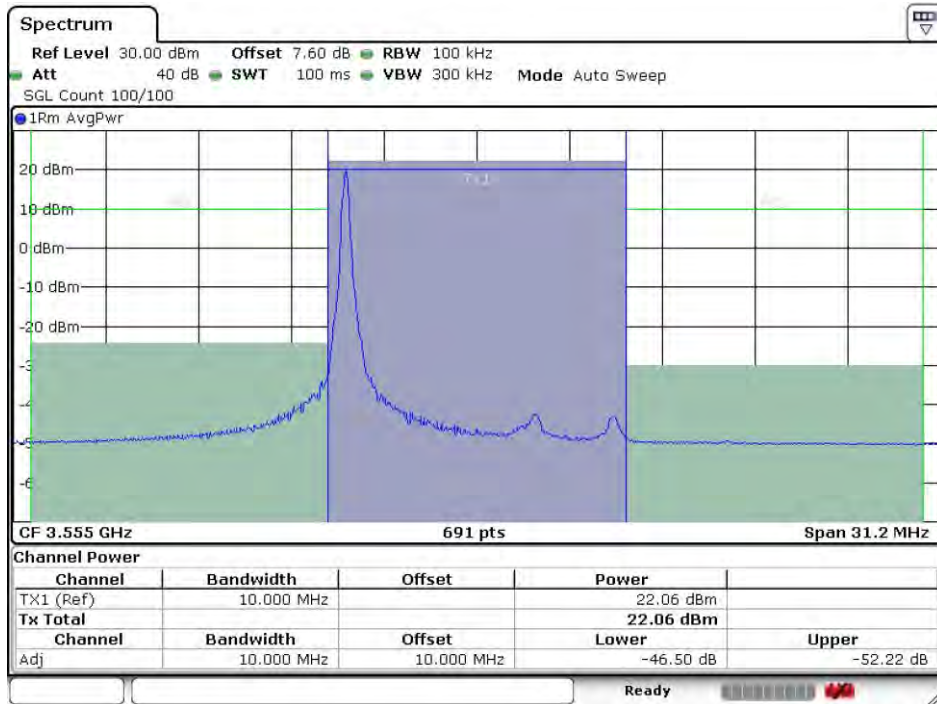
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**Band48-10MHz-QPSK-55290-1RB#0**

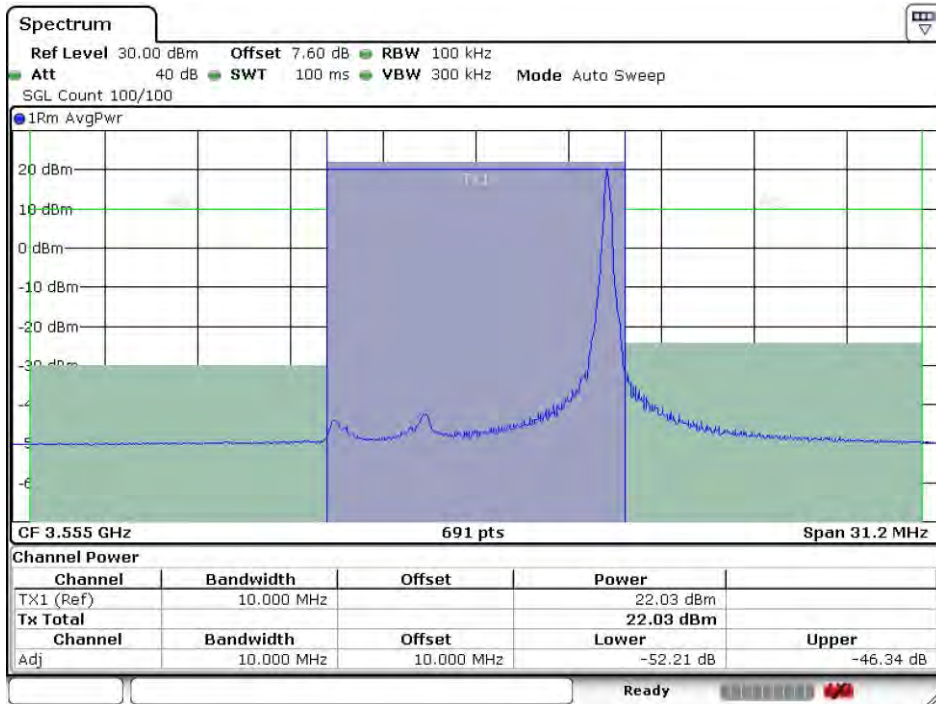


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Band48-10MHz-QPSK-55290-1RB#49



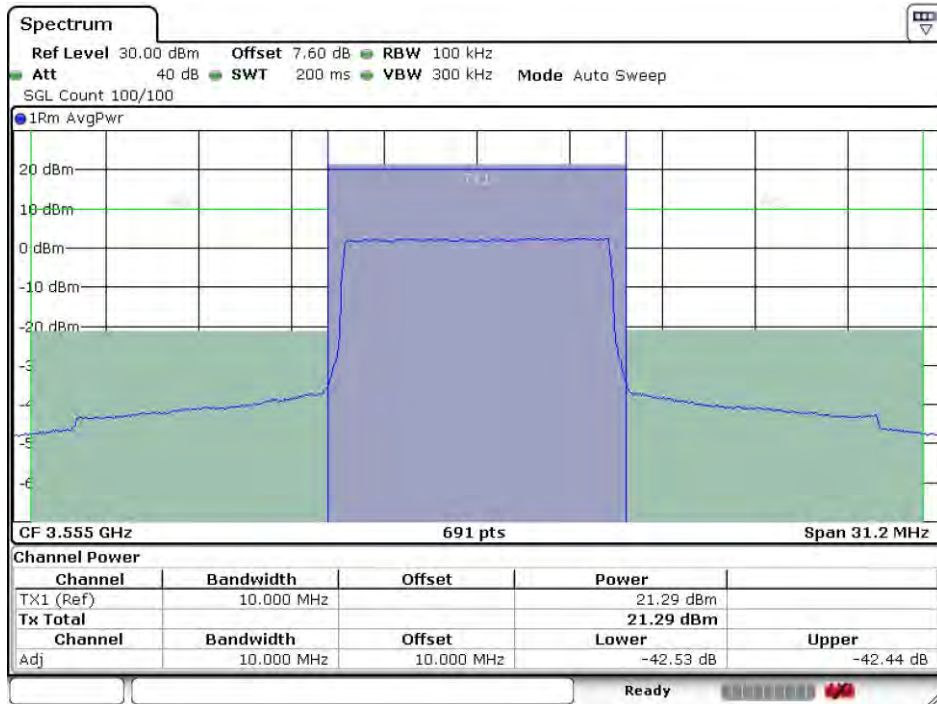
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Band48-10MHz-QPSK-55290-50RB#0



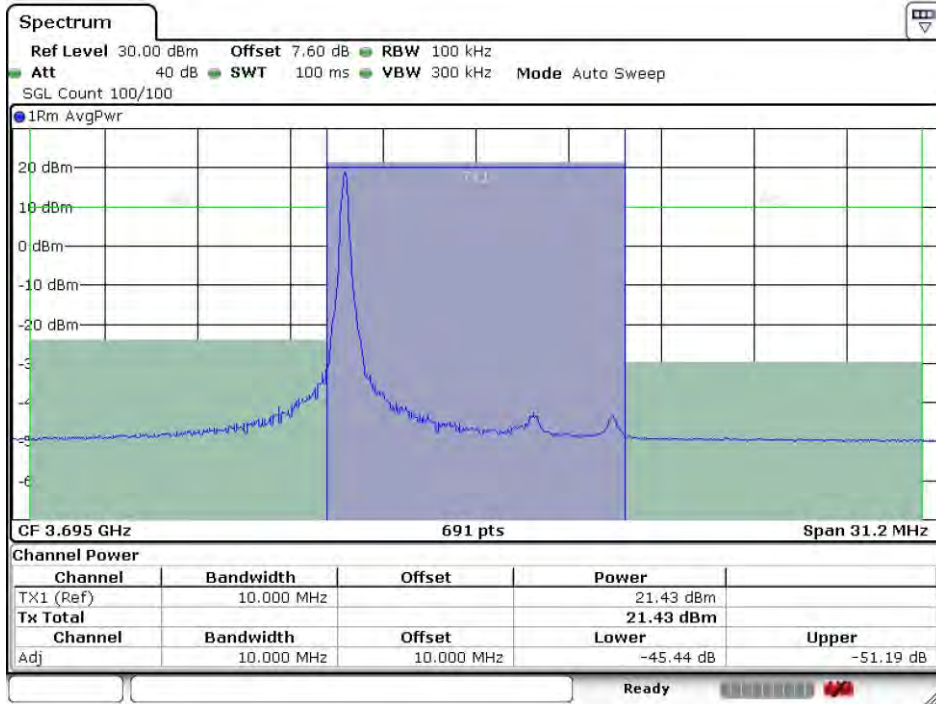
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**Band48-10MHz-QPSK-56690-1RB#0**

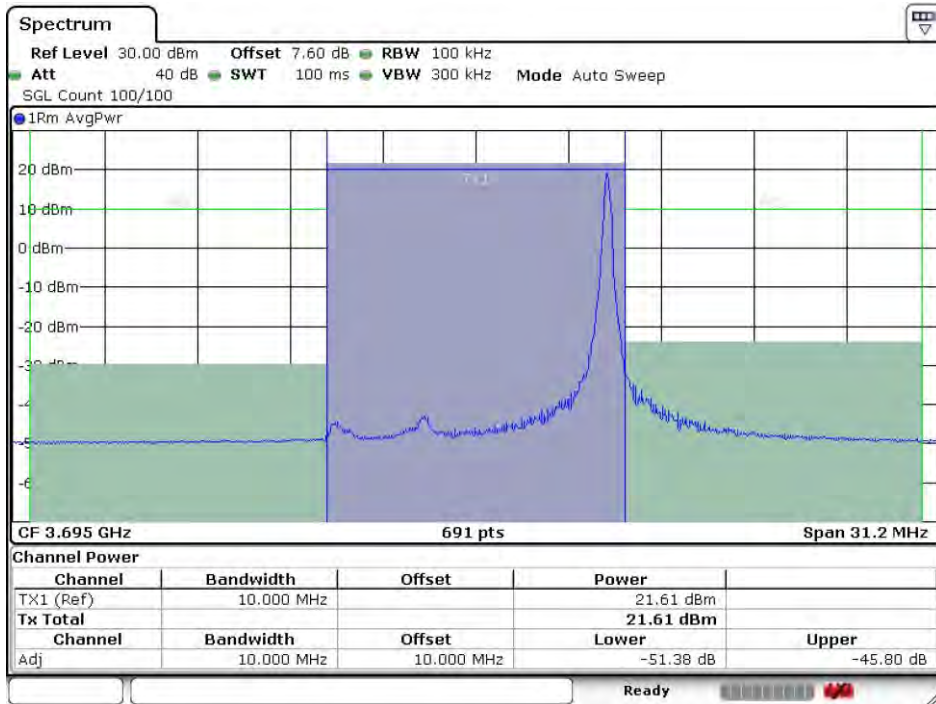


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**Band48-10MHz-QPSK-56690-1RB#49**

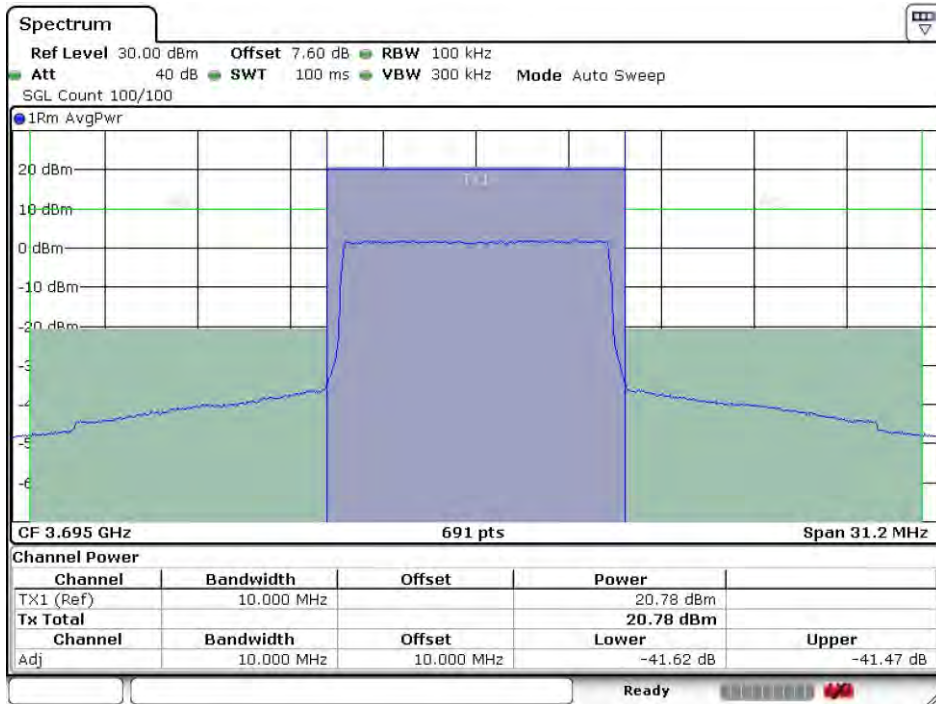


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Band48-10MHz-QPSK-56690-50RB#0

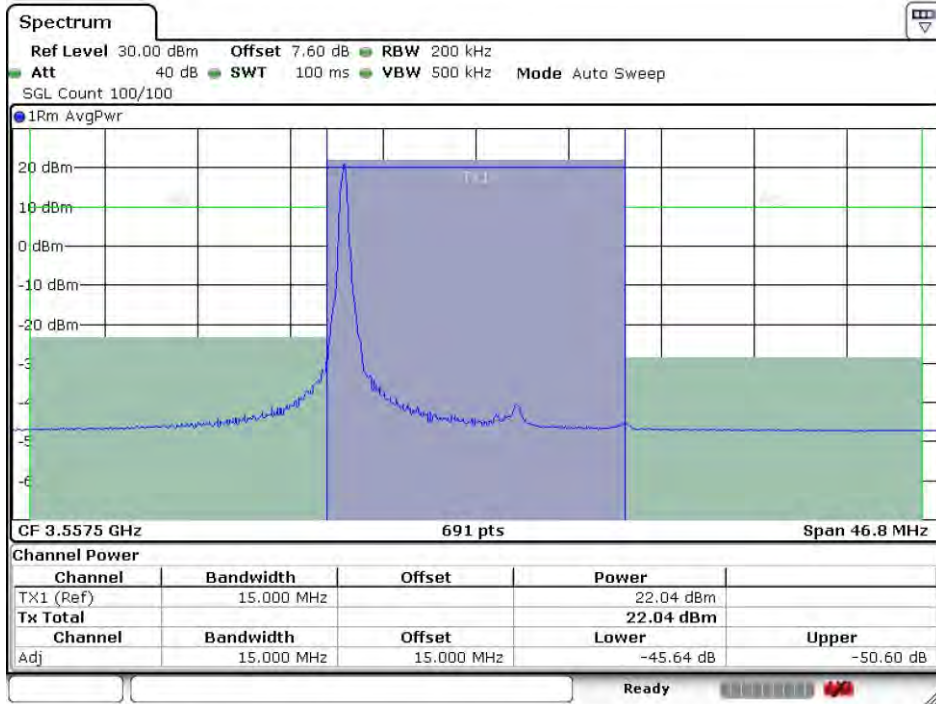


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**Band48-15MHz-QPSK-55315-1RB#0**



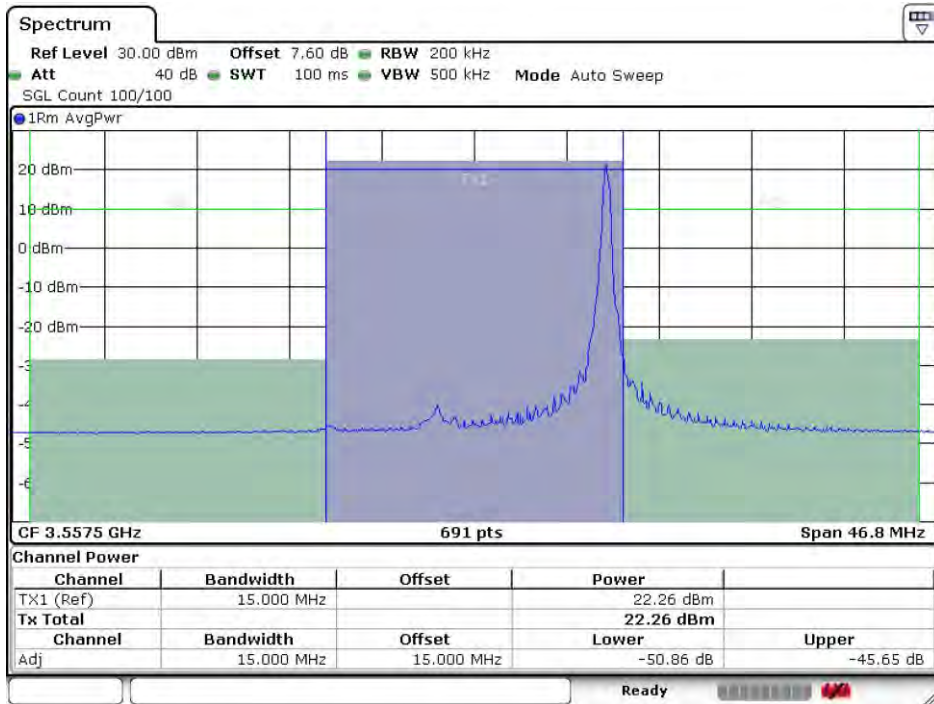
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**Band48-15MHz-QPSK-55315-1RB#74**



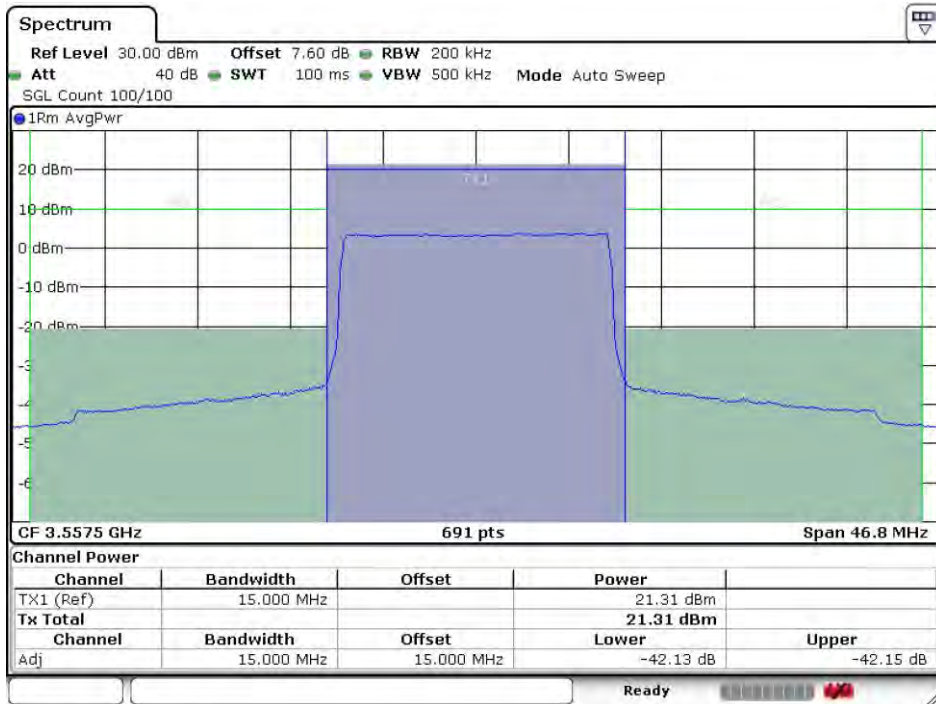
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**Band48-15MHz-QPSK-55315-75RB#0**



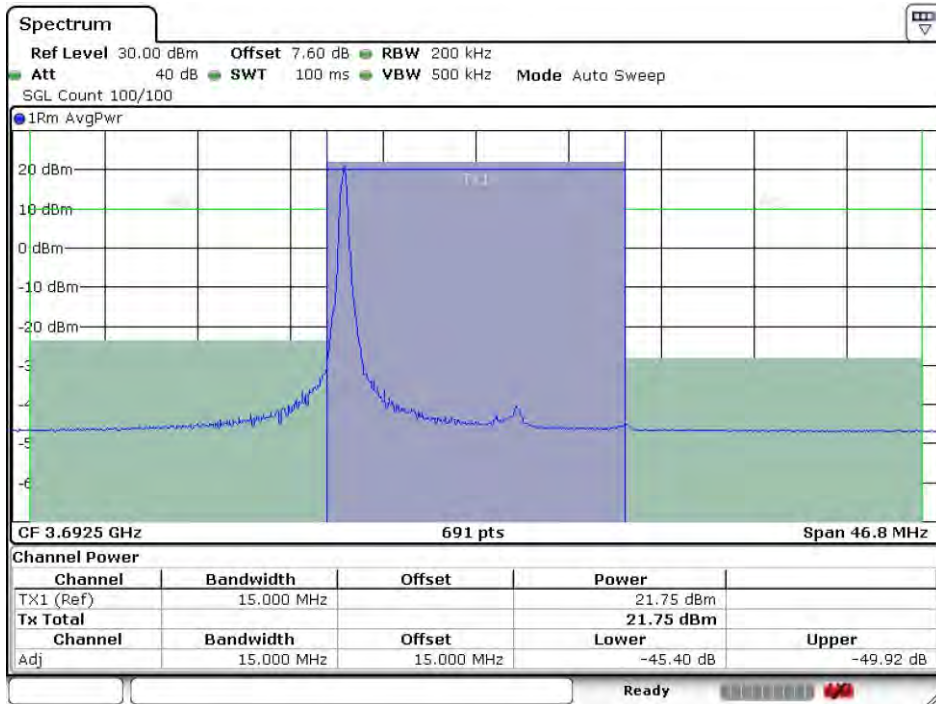
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**Band48-15MHz-QPSK-56665-1RB#0**

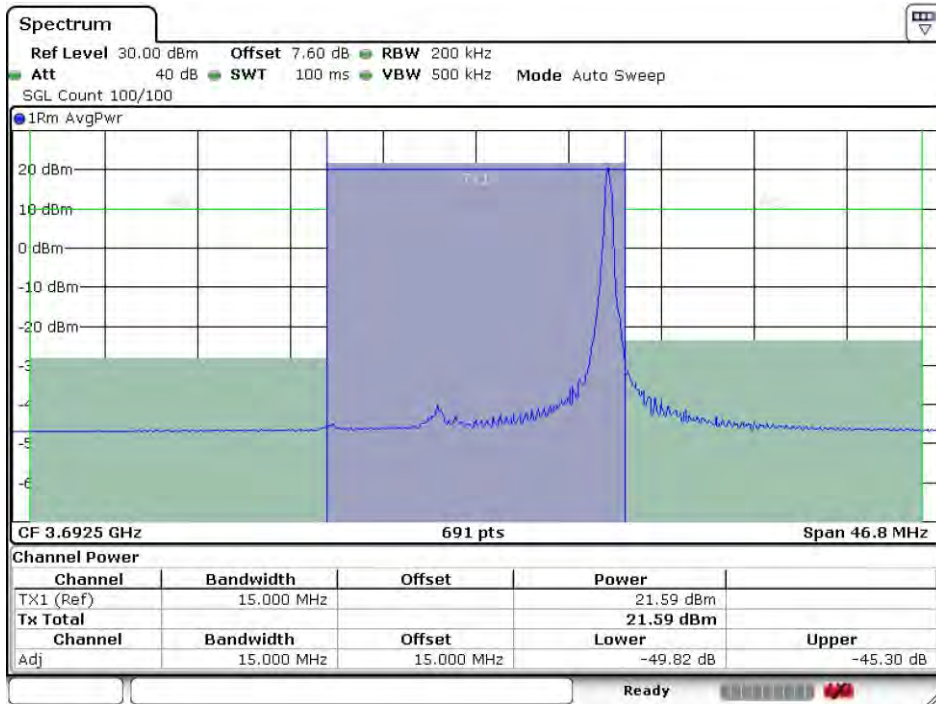


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**Band48-15MHz-QPSK-56665-1RB#74**



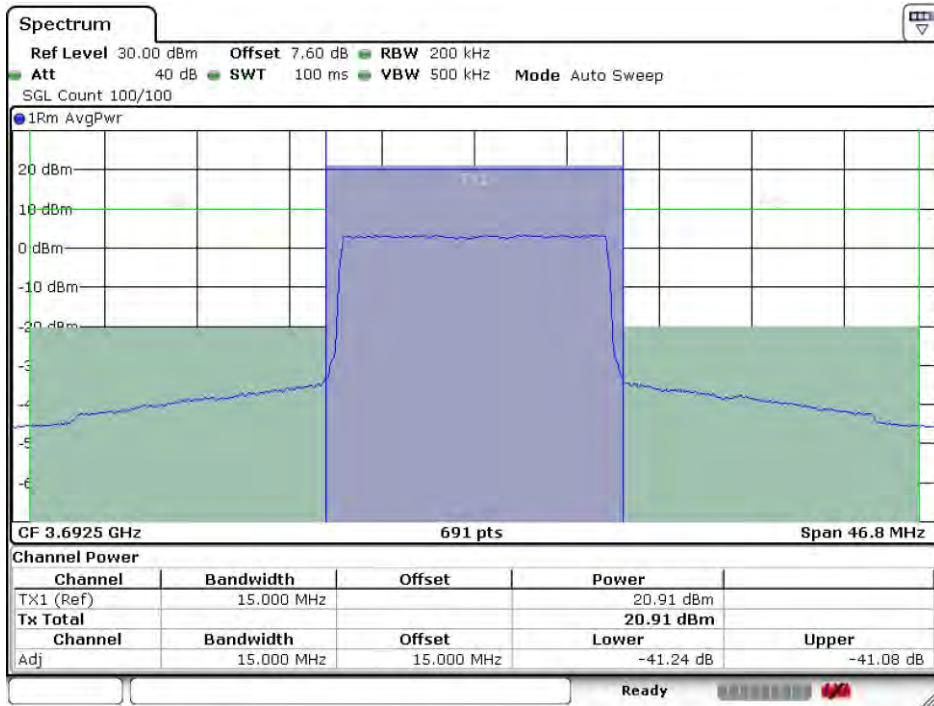
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**Band48-15MHz-QPSK-56665-75RB#0**



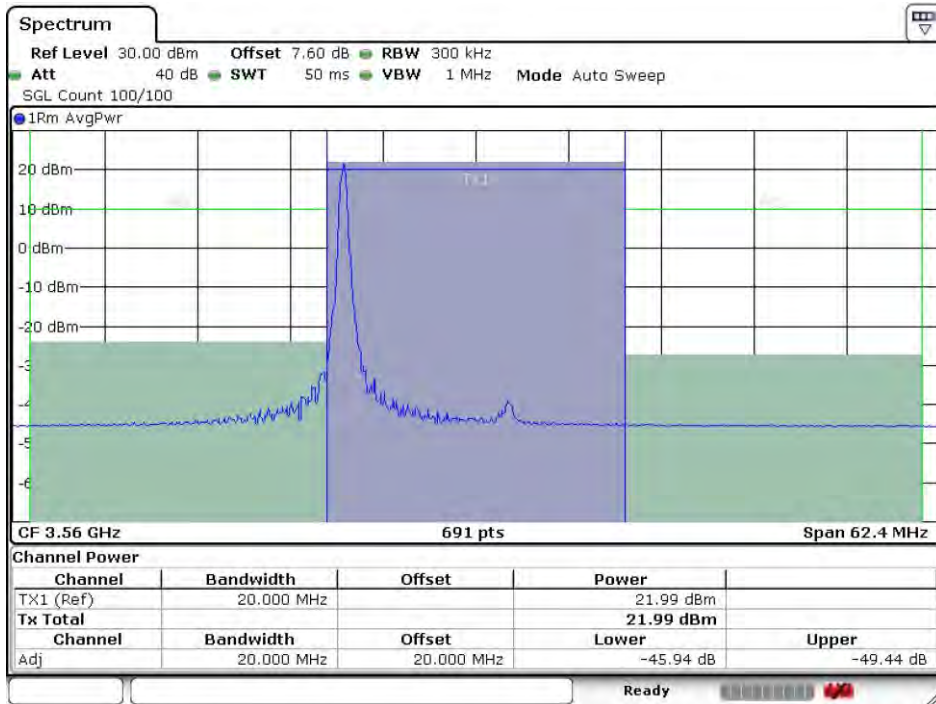
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**Band48-20MHz-QPSK-55340-1RB#0**

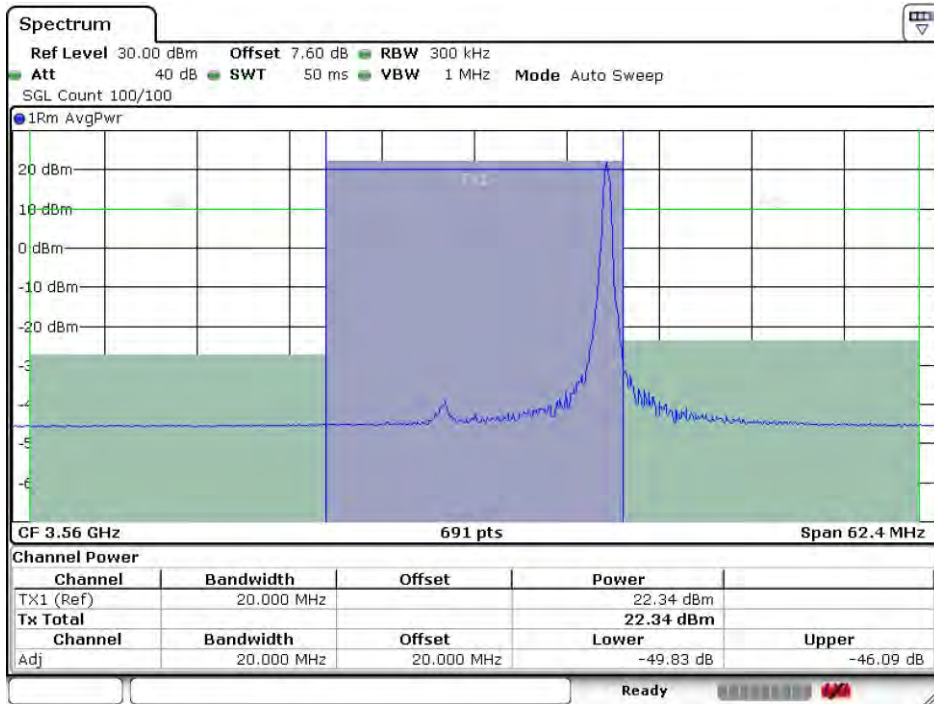


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Band48-20MHz-QPSK-55340-1RB#99



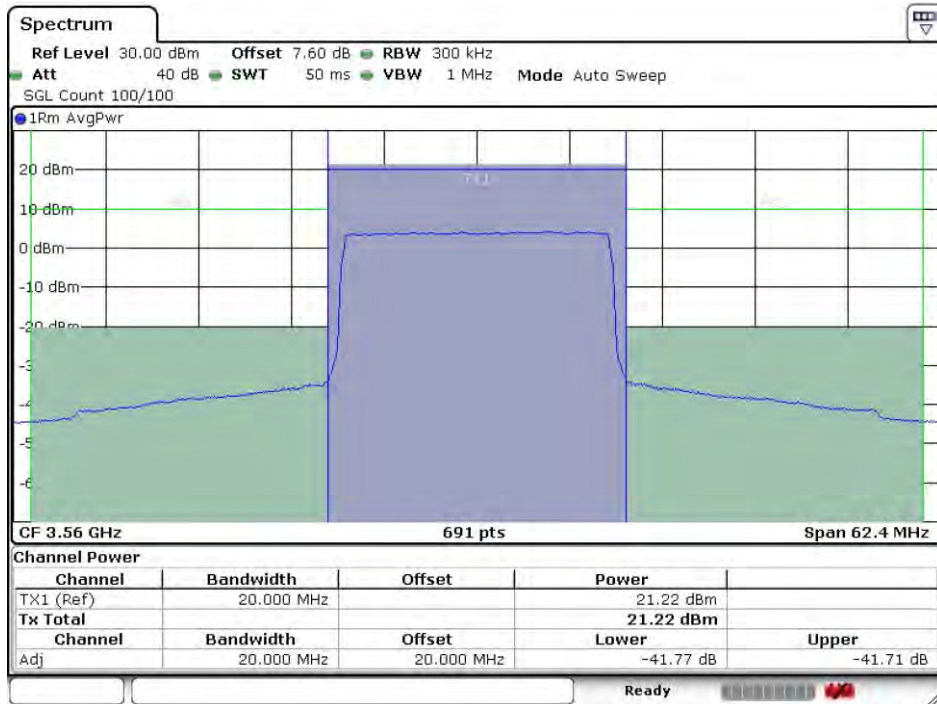
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Band48-20MHz-QPSK-55340-100RB#0

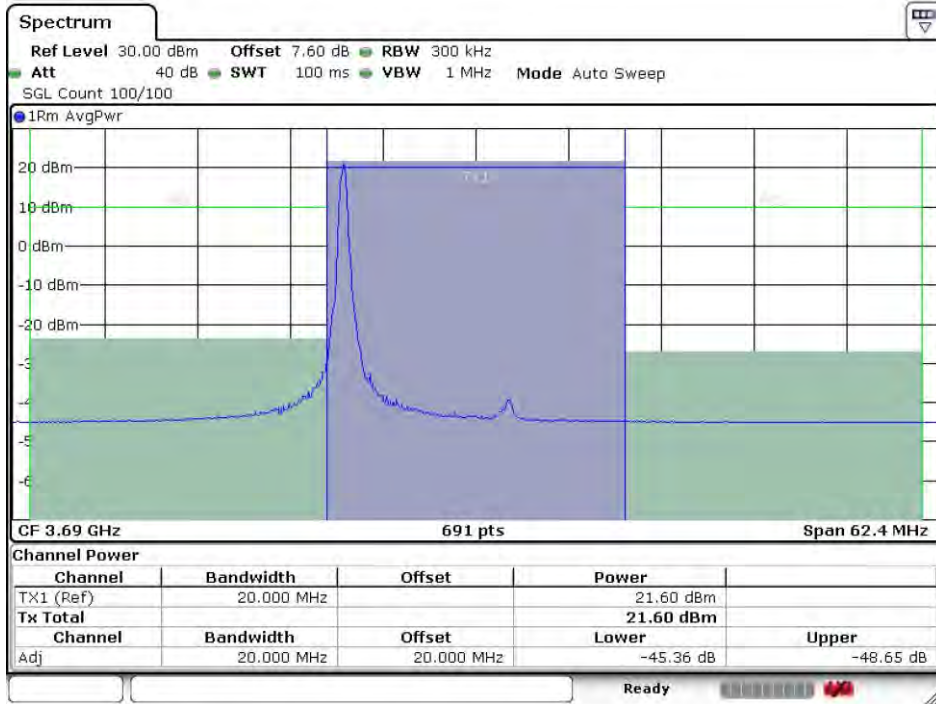


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Band48-20MHz- QPSK -56640-1RB#0



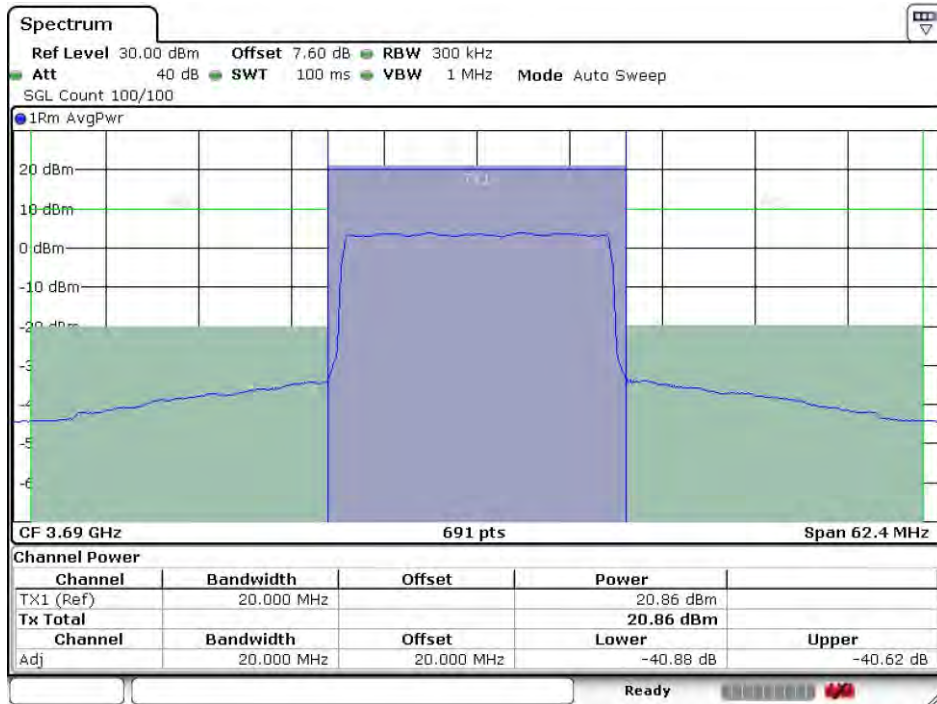
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Band48-20MHz- QPSK -56640-100RB#0



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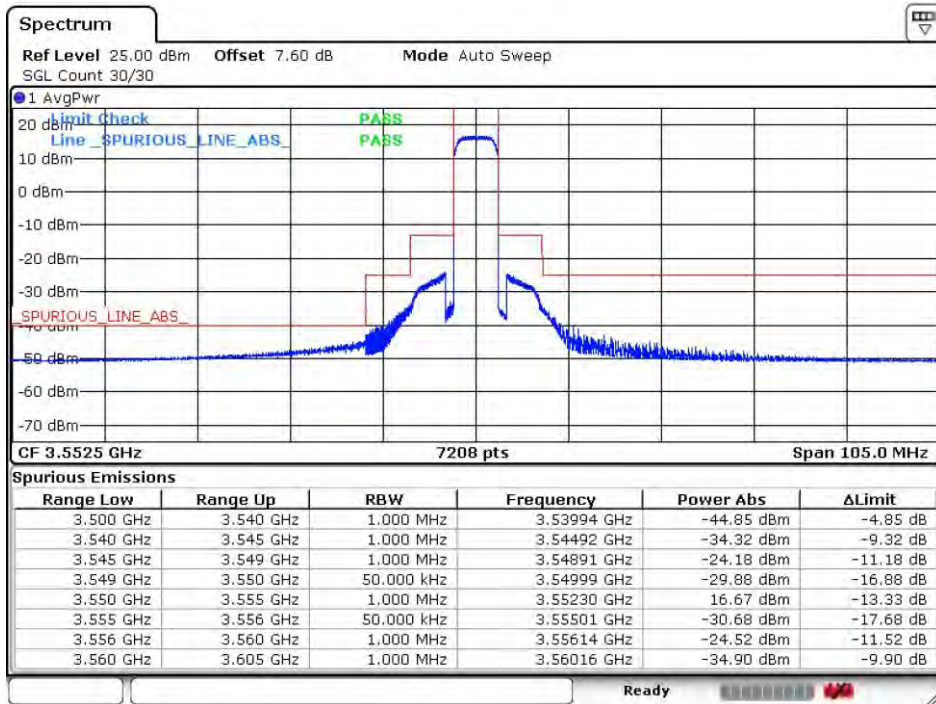


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Band48-5MHz-QPSK-55265-25RB#0

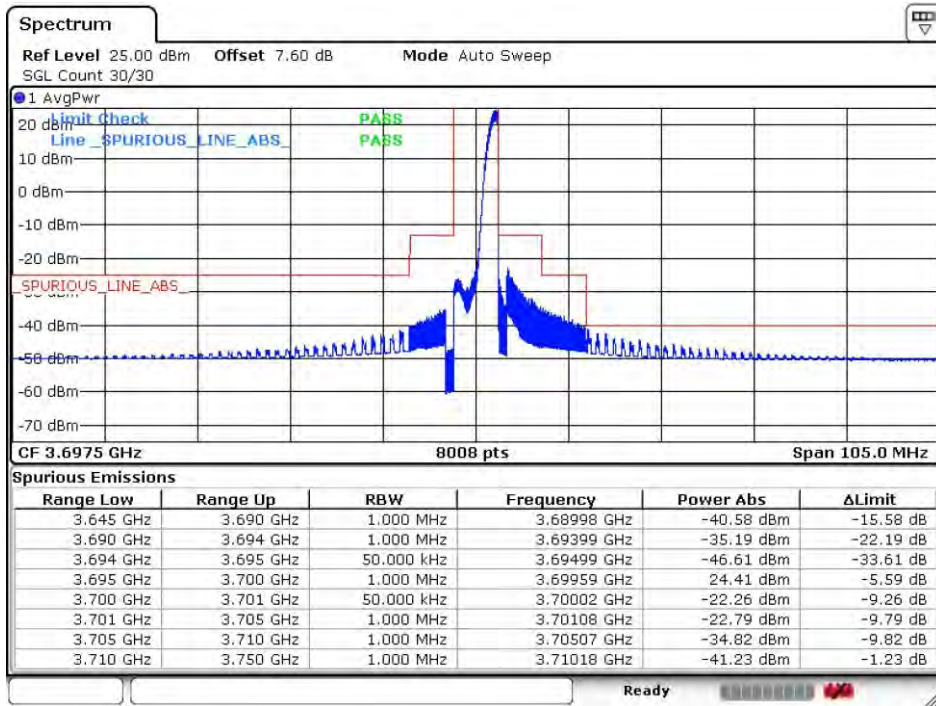


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**Band48-5MHz-QPSK-56715-1RB#24**

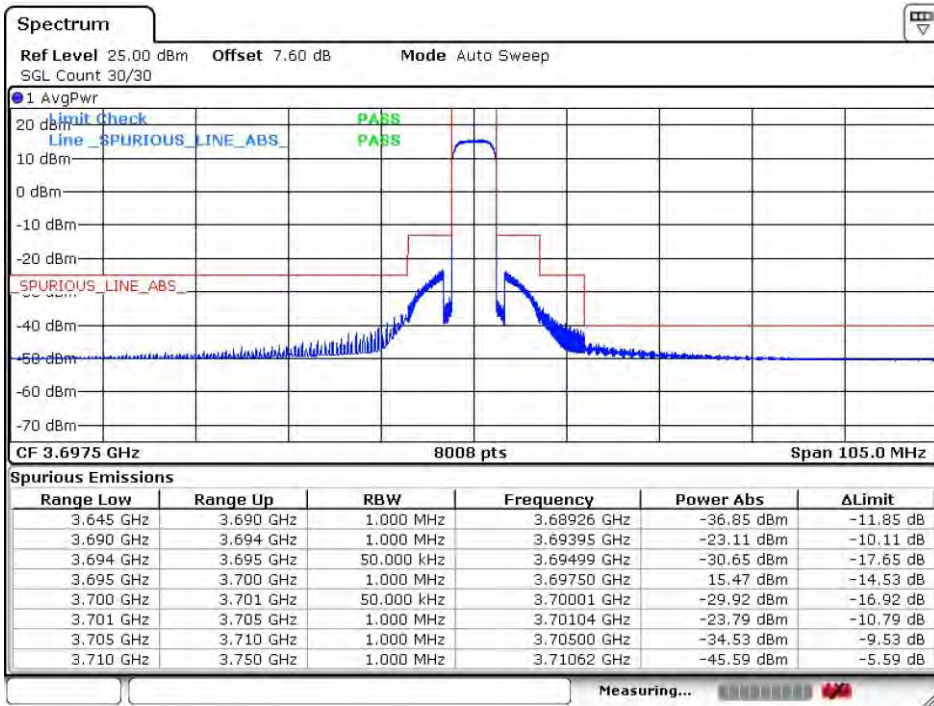


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Band48-5MHz-QPSK-56715-25RB#0

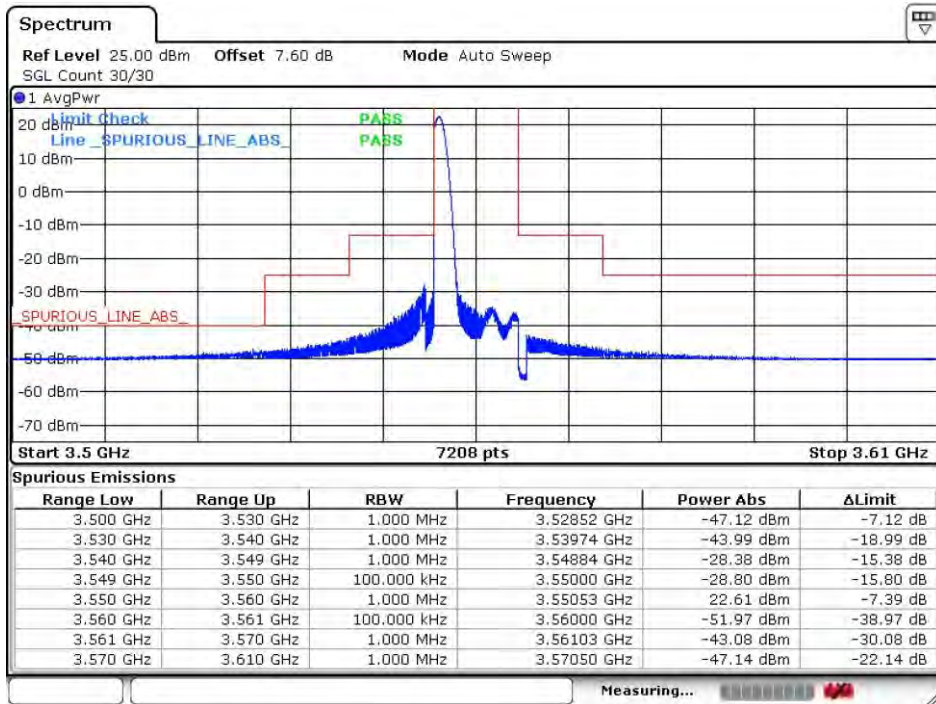


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**Band48-10MHz-QPSK-55290-1RB#0**

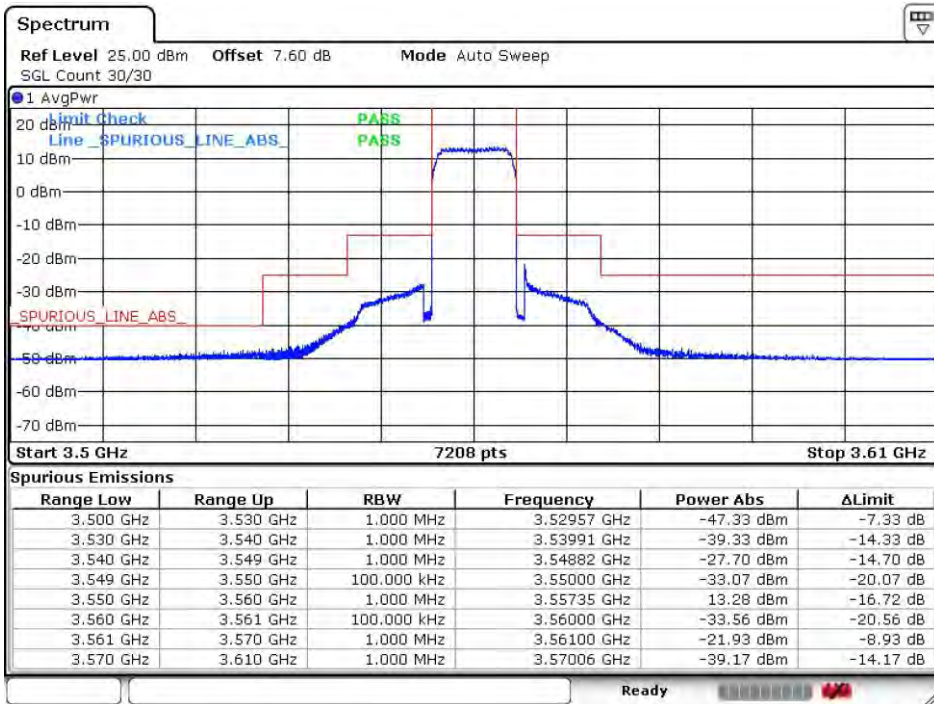


Date: 29.MAY.2021 23:36:24



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Band48-10MHz-QPSK-55290-50RB#0

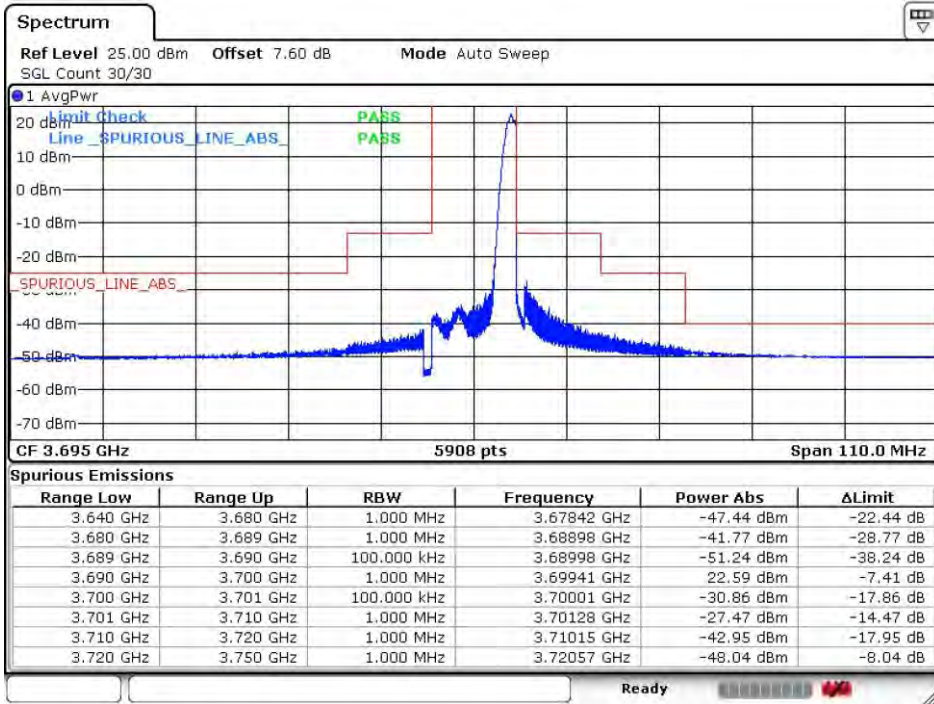


Date: 29.MAY.2021 23:33:25



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**Band48-10MHz-QPSK-56690-1RB#49**



Date: 29.MAY.2021 23:41:22

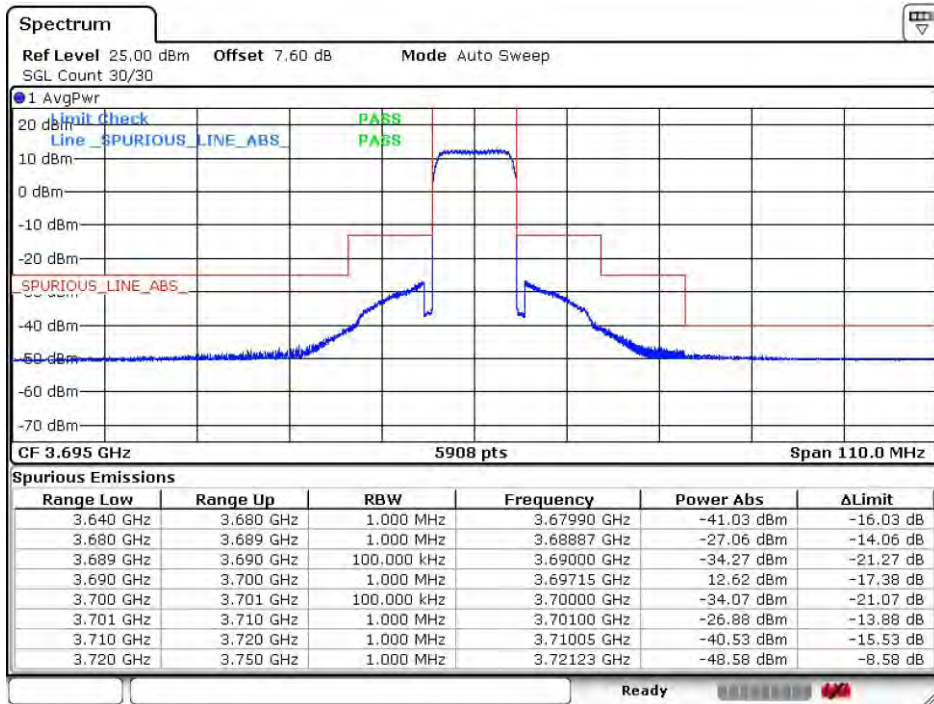


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Band48-10MHz-QPSK-56690-50RB#0

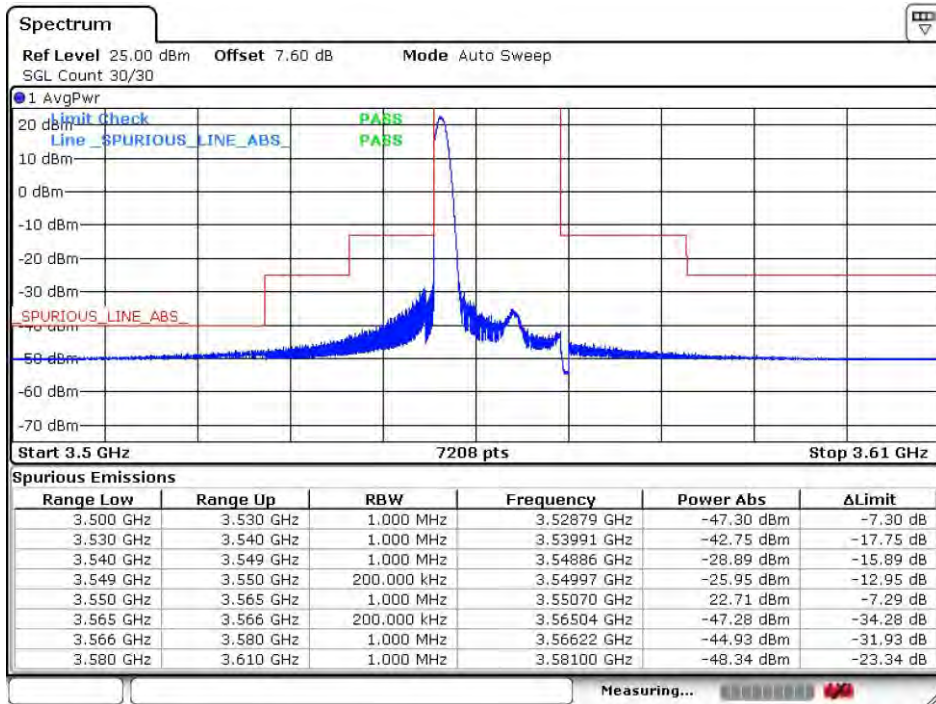


Date: 29 MAY. 2021 23:45:32



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**Band48-15MHz-QPSK-55315-1RB#0**



Date: 29.MAY.2021 23:49:55



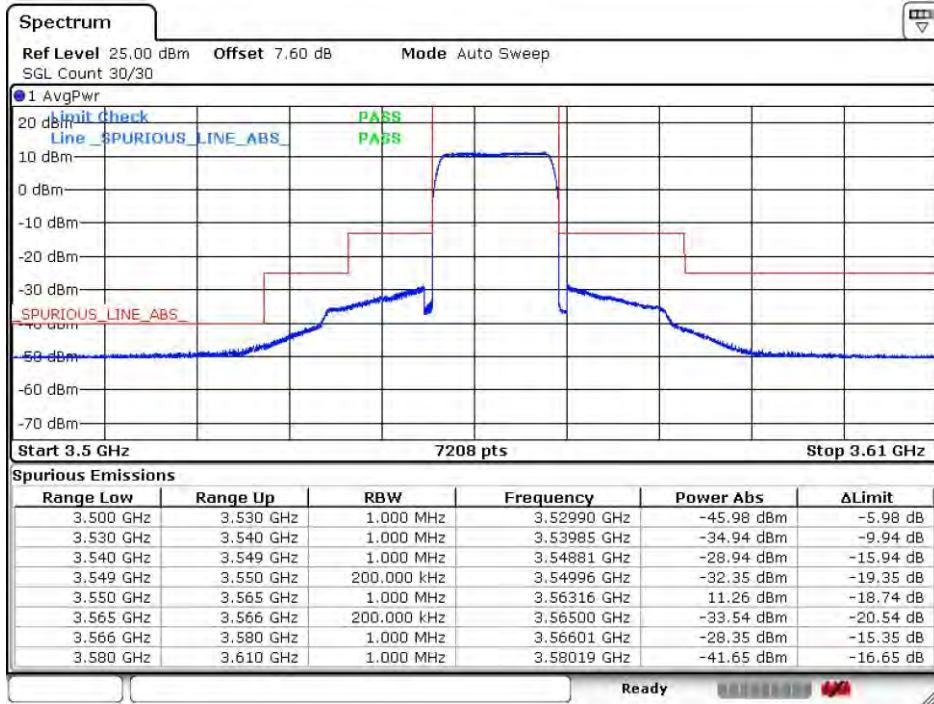
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**Band48-15MHz-QPSK-55315-75RB#0**

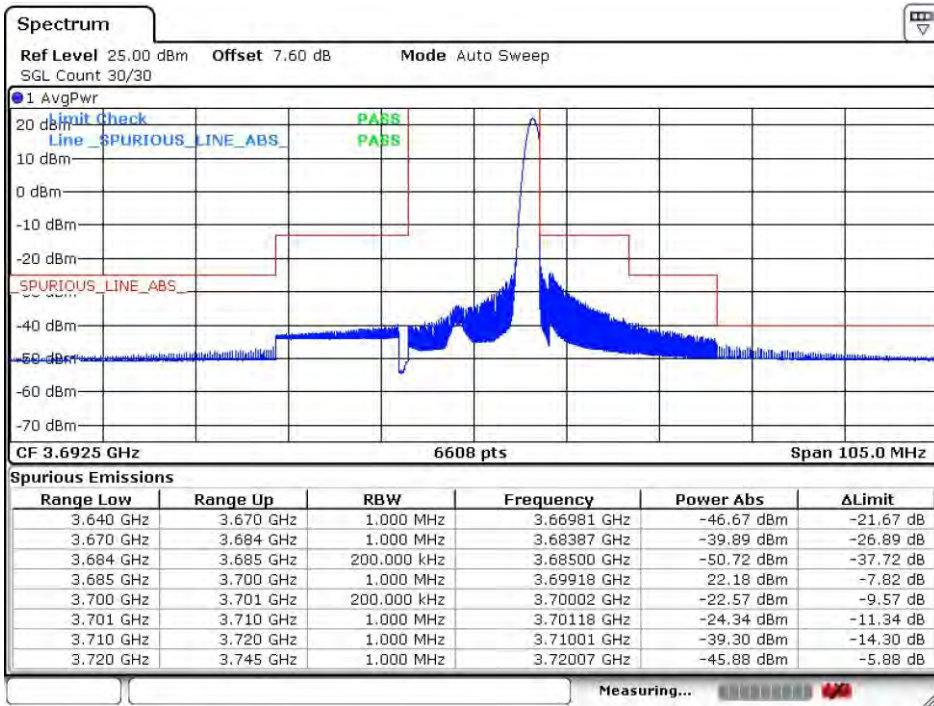


Date: 29 MAY. 2021 23:46:37



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Band48-15MHz-QPSK-56665-1RB#74



Date: 29.MAY.2021 23:54:11

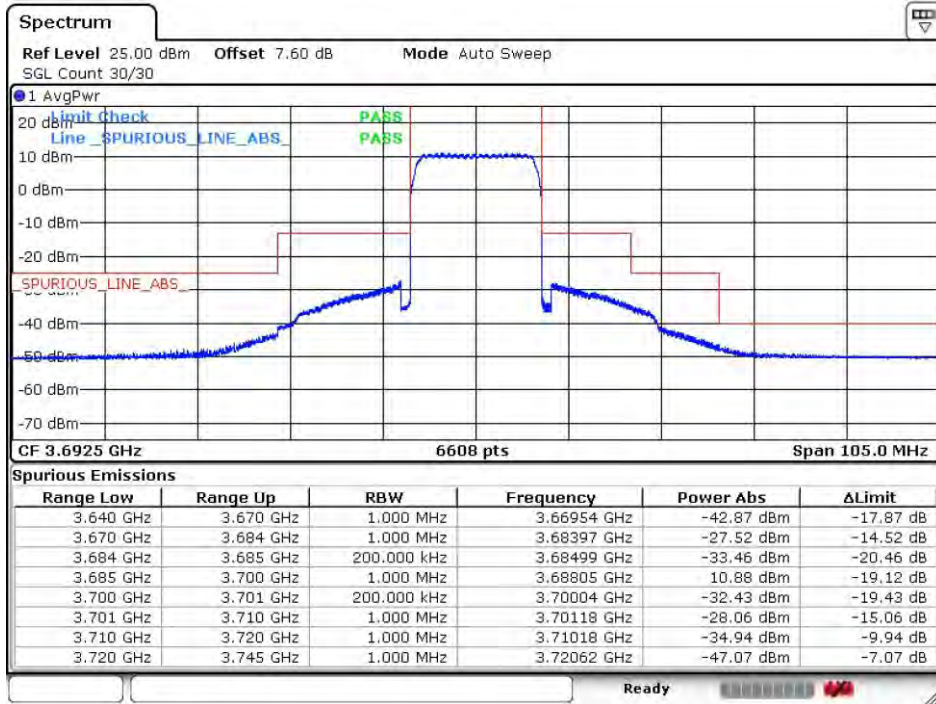


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Band48-15MHz-QPSK-56665-75RB#0



Date: 29.MAY.2021 23:58:28

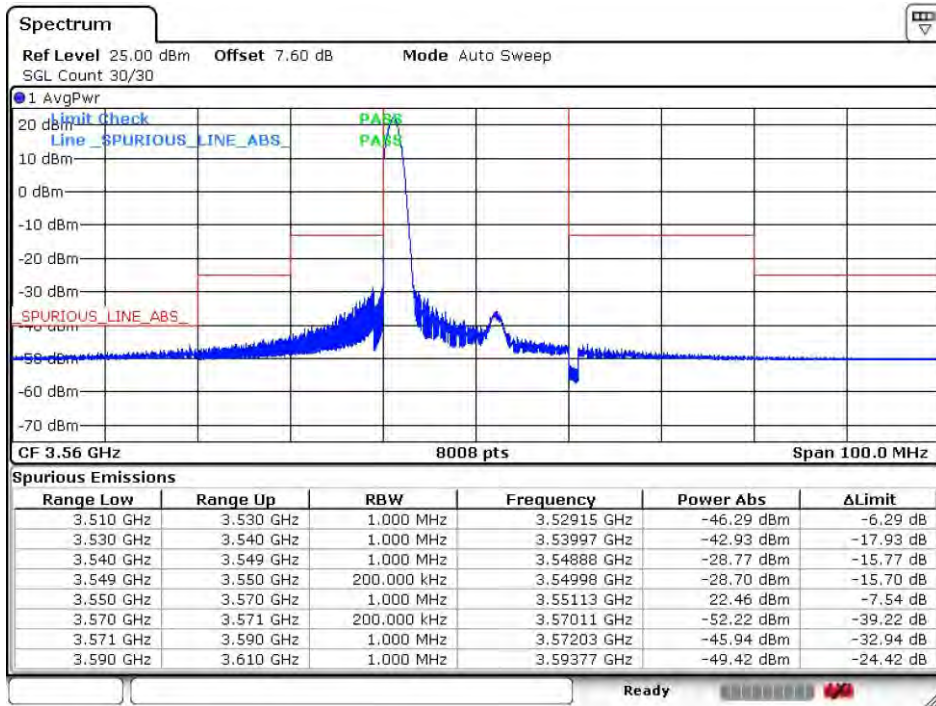


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**Band48-20MHz-QPSK-55340-1RB#0**



Date: 30.MAY.2021 00:02:31

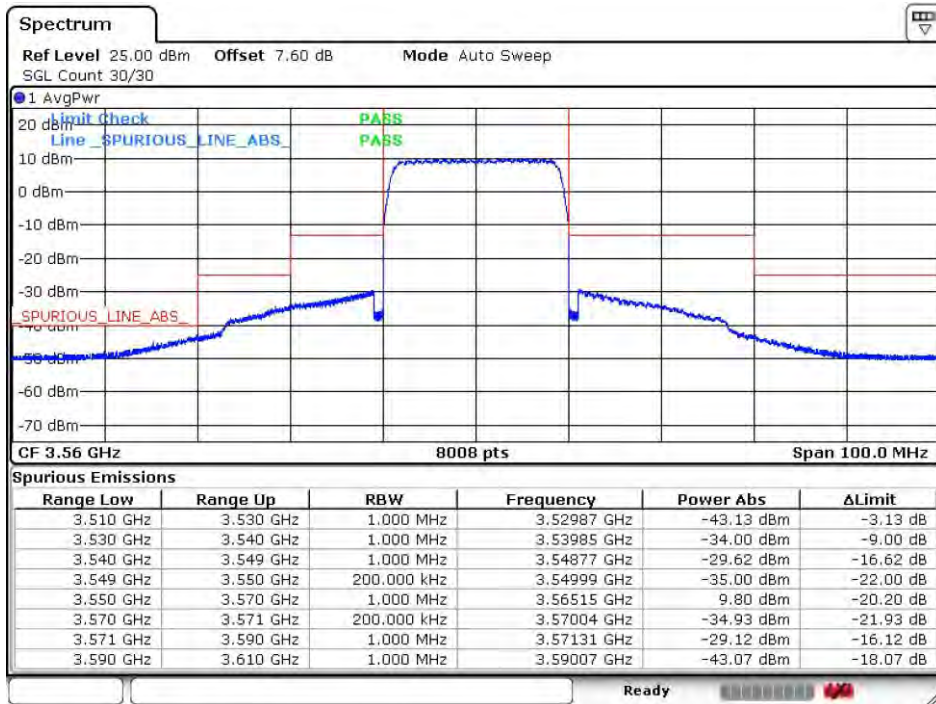


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Band48-20MHz-QPSK-55340-100RB#0



Date: 29.MAY.2021 23:59:39

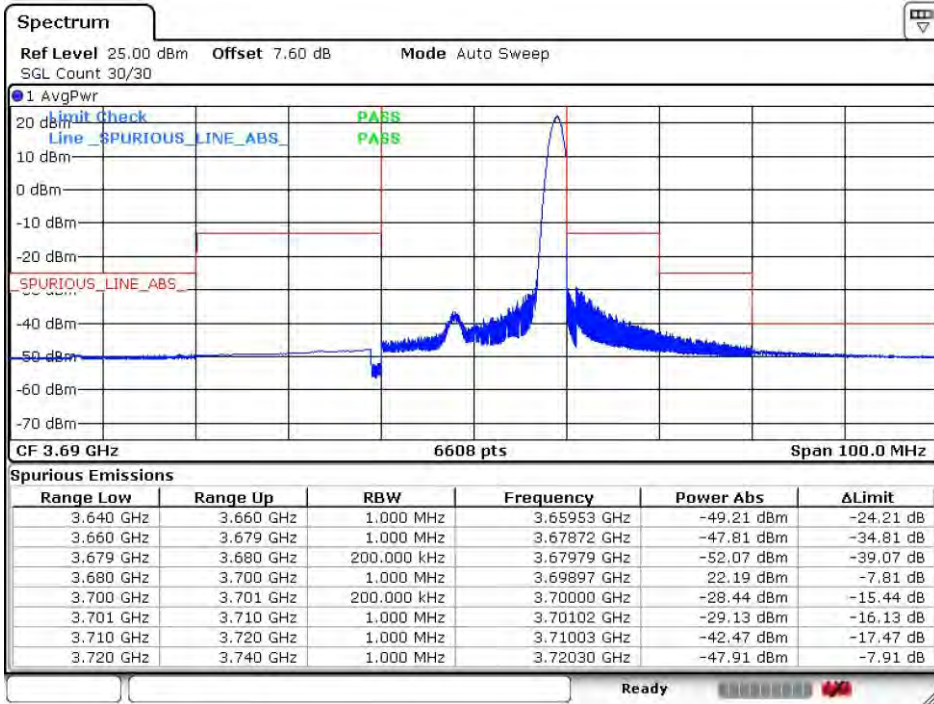


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**Band48-20MHz-QPSK-56640-1RB#99**



Date: 30.MAY.2021 00:06:38

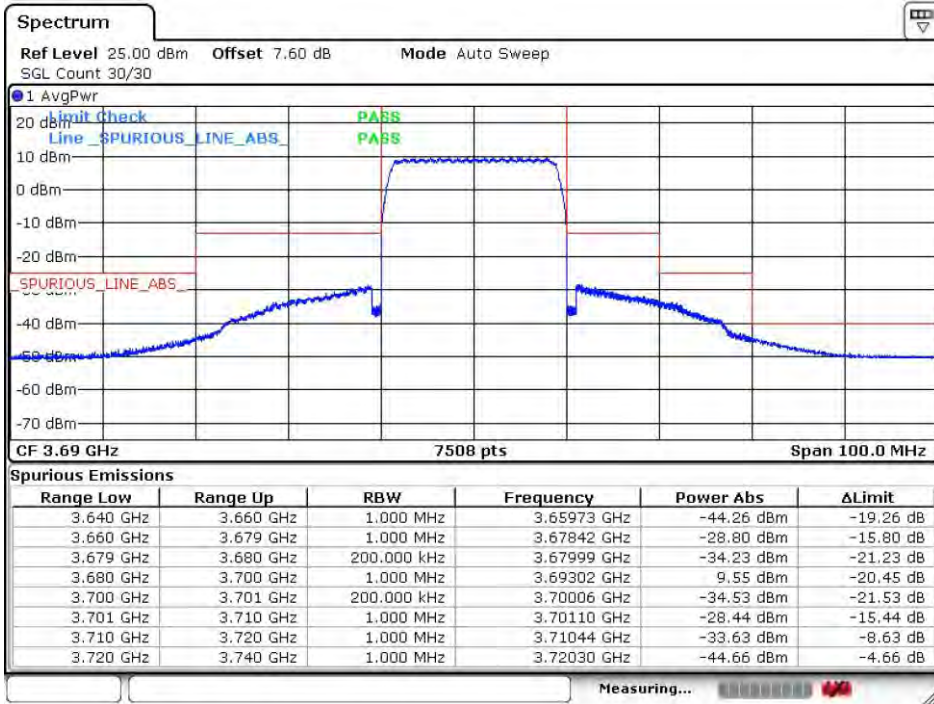


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Band48-20MHz-QSK-56640-100RB#0



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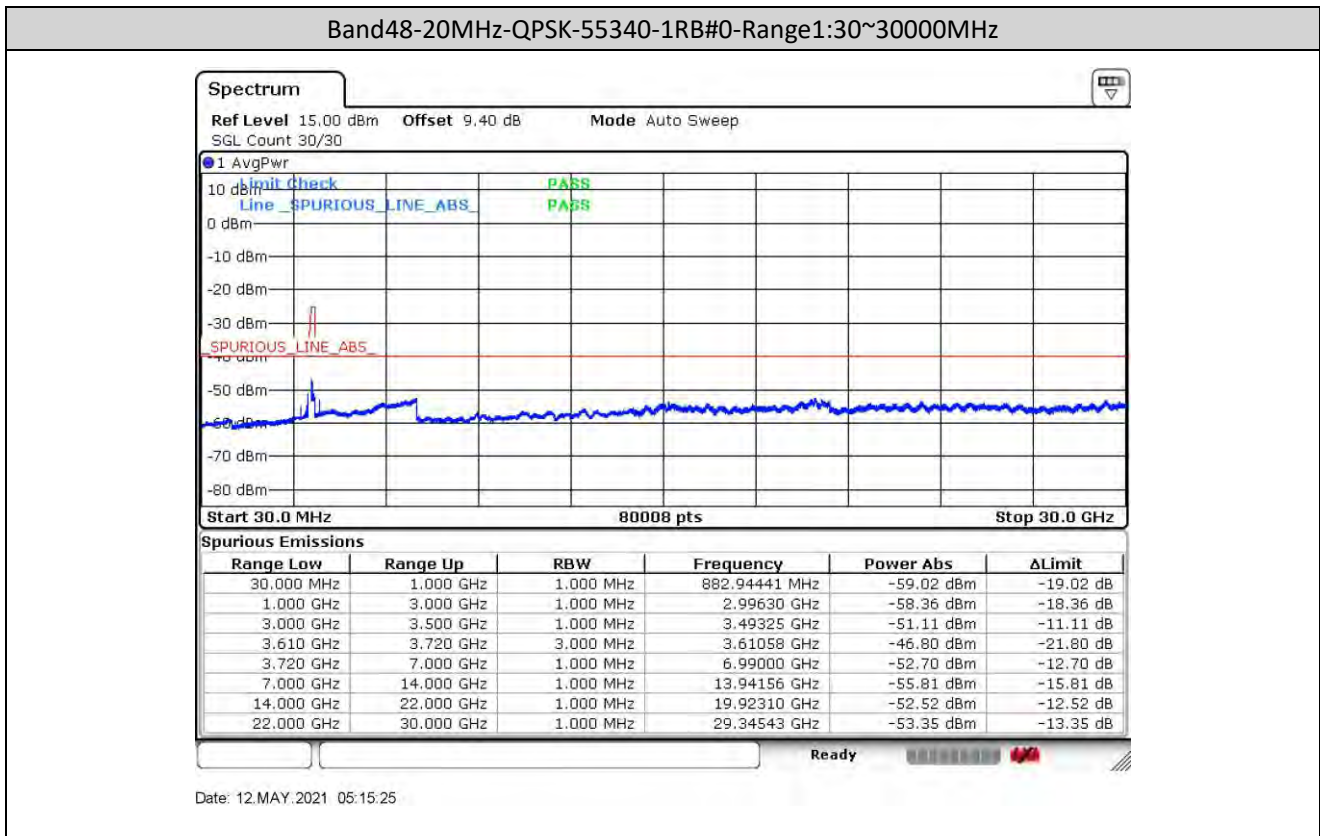
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## 7. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

### 7.1. Test Plots



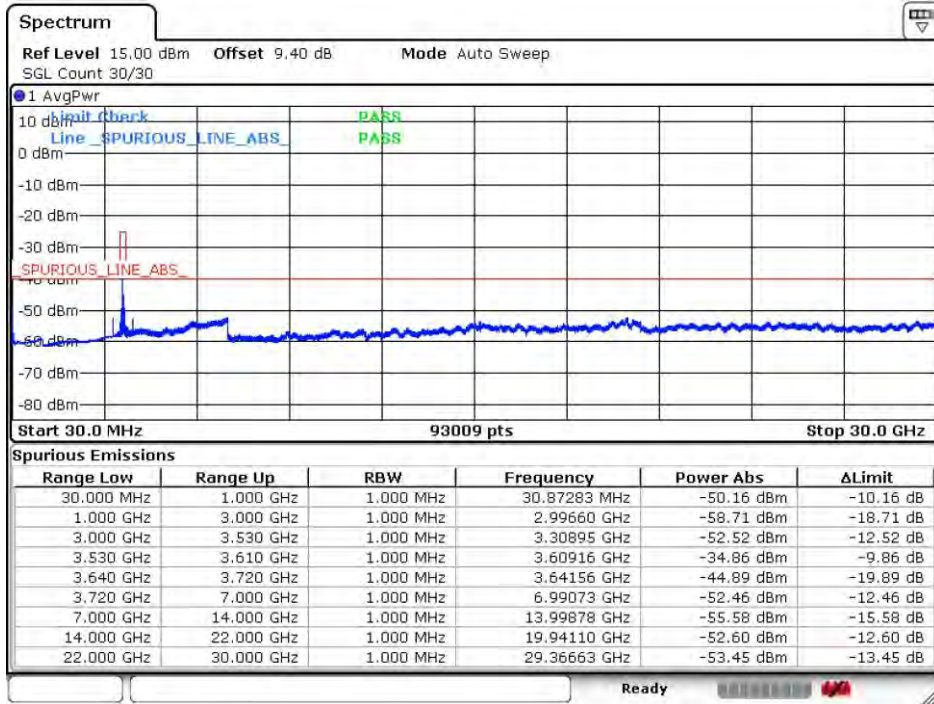
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**Band48-20MHz-QPSK-55990-1RB#0-Range1:30~30000MHz**



Date: 12.MAY.2021 05:24:45

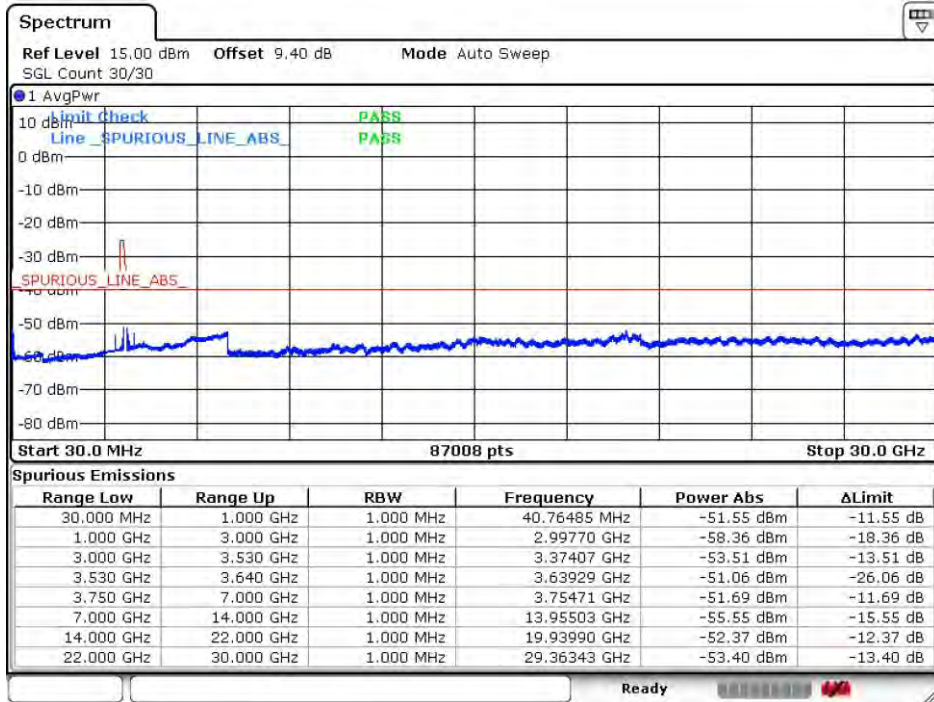


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Band48-20MHz-QPSK-56640-1RB#0-Range1:30~30000MHz



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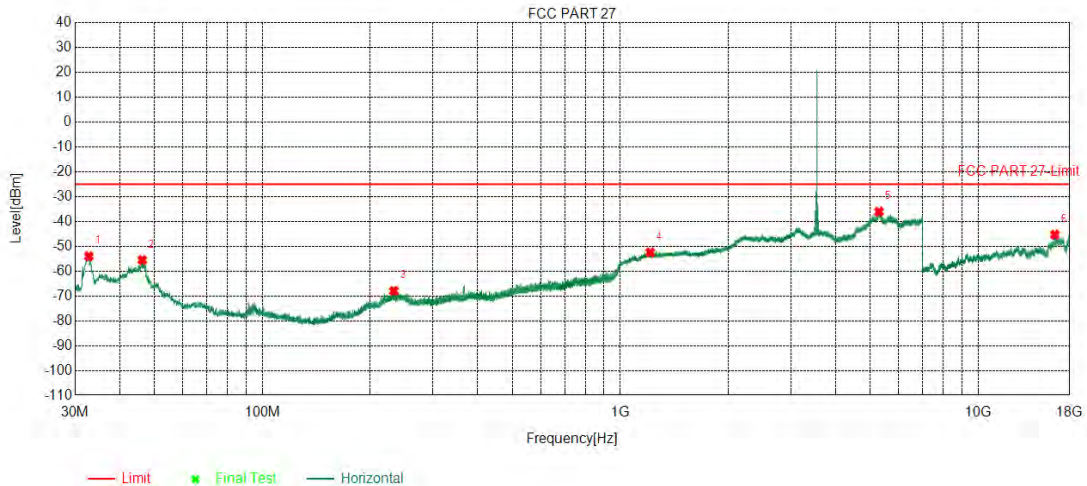
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## 8. Field Strength of Spurious Radiation

### 8.1. Test Band LTE\_Band48\_TM1\_ANT2

#### 8.1.1. Test Channel Low Channel

##### Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	32.7809	-66.80	-54.05	-25.00	29.05	Horizontal
2	46.2324	-70.88	-55.54	-25.00	30.54	Horizontal
3	233.2609	-79.50	-67.96	-25.00	42.96	Horizontal
4	1213.3685	-70.07	-52.46	-25.00	27.46	Horizontal
5	5283.6913	-67.78	-36.01	-25.00	11.01	Horizontal
6	16400.536	-60.15	-45.32	-25.00	20.32	Horizontal

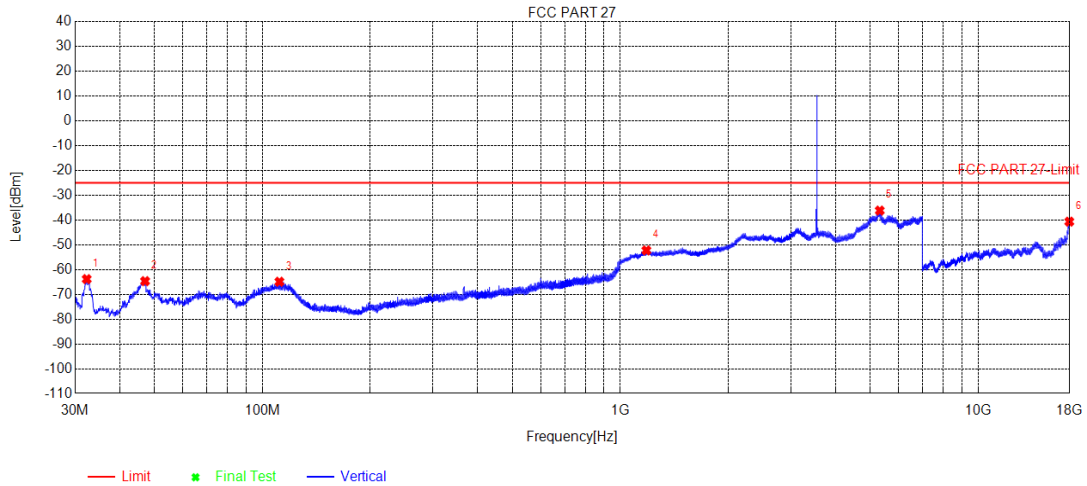


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**8.2. Test Band LTE\_Band48\_TM1 ANT2**

**8.2.1. Test Channel Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	32.3282	-66.58	-63.83	-25.00	38.83	Vertical
2	47.0731	-71.87	-64.65	-25.00	39.65	Vertical
3	111.6794	-80.07	-64.89	-25.00	39.89	Vertical
4	1183.3673	-70.19	-52.25	-25.00	27.25	Vertical
5	5312.2525	-68.21	-36.16	-25.00	11.16	Vertical
6	17978.879	-59.39	-40.63	-25.00	15.63	Vertical



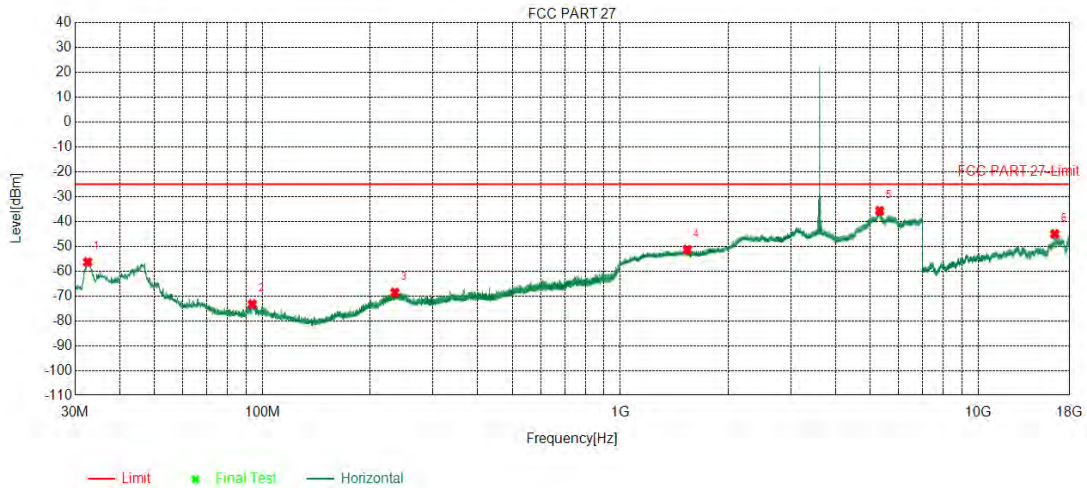
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**8.3. Test Band LTE\_Band48\_TM1 ANT2**

**8.3.1. Test Channel Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	32.5222	-68.91	-56.34	-25.00	31.34	Horizontal
2	93.8303	-77.05	-73.31	-25.00	48.31	Horizontal
3	234.9423	-80.18	-68.60	-25.00	43.60	Horizontal
4	1539.3016	-69.40	-51.36	-25.00	26.36	Horizontal
5	5307.9323	-68.32	-35.71	-25.00	10.71	Horizontal
6	16386.455	-59.68	-45.04	-25.00	20.04	Horizontal

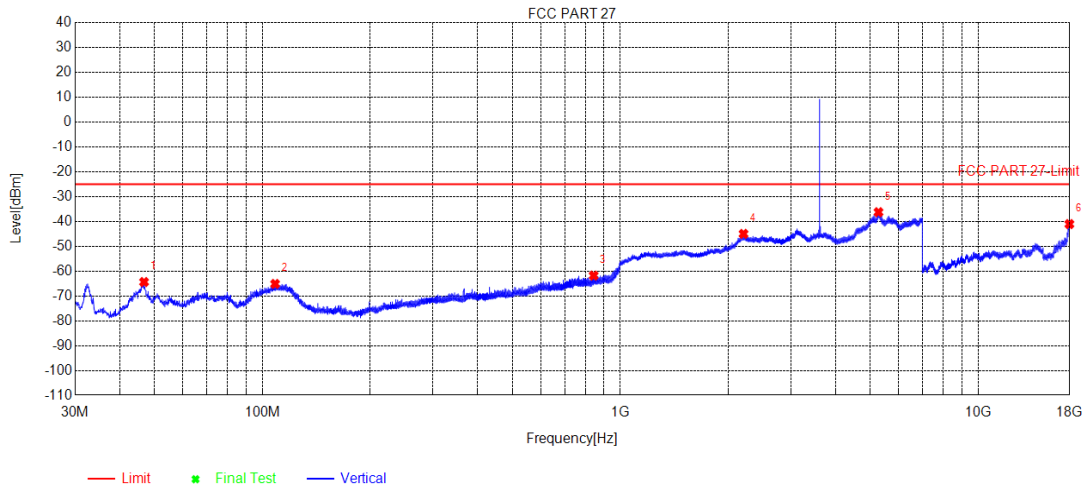


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**8.4. Test Band LTE\_Band48\_TM1 ANT2**

**8.4.1. Test Channel Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.7498	-71.51	-64.37	-25.00	39.37	Vertical
2	108.6399	-80.16	-65.13	-25.00	40.13	Vertical
3	843.1729	-80.77	-61.79	-25.00	36.79	Vertical
4	2211.0884	-68.13	-44.97	-25.00	19.97	Vertical
5	5268.5707	-67.50	-36.23	-25.00	11.23	Vertical
6	17987.679	-59.89	-41.03	-25.00	16.03	Vertical

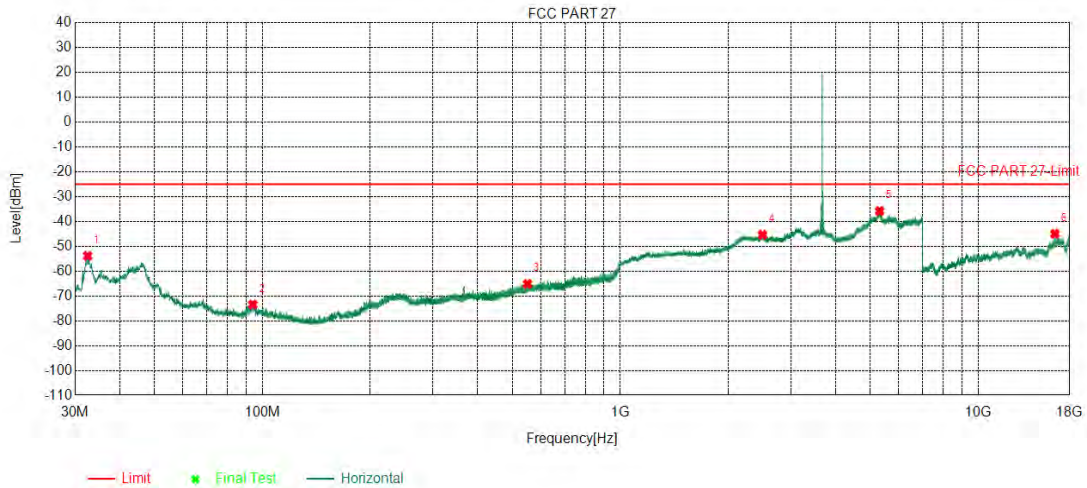


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**8.5. Test Band LTE\_Band48\_TM1 ANT2**

**8.5.1. Test Channel High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	32.5222	-66.43	-53.86	-25.00	28.86	Horizontal
2	94.0889	-77.20	-73.46	-25.00	48.46	Horizontal
3	550.9247	-80.31	-65.15	-25.00	40.15	Horizontal
4	2497.6599	-67.62	-45.37	-25.00	20.37	Horizontal
5	5304.3322	-68.14	-35.80	-25.00	10.80	Horizontal
6	16398.776	-59.78	-44.95	-25.00	19.95	Horizontal

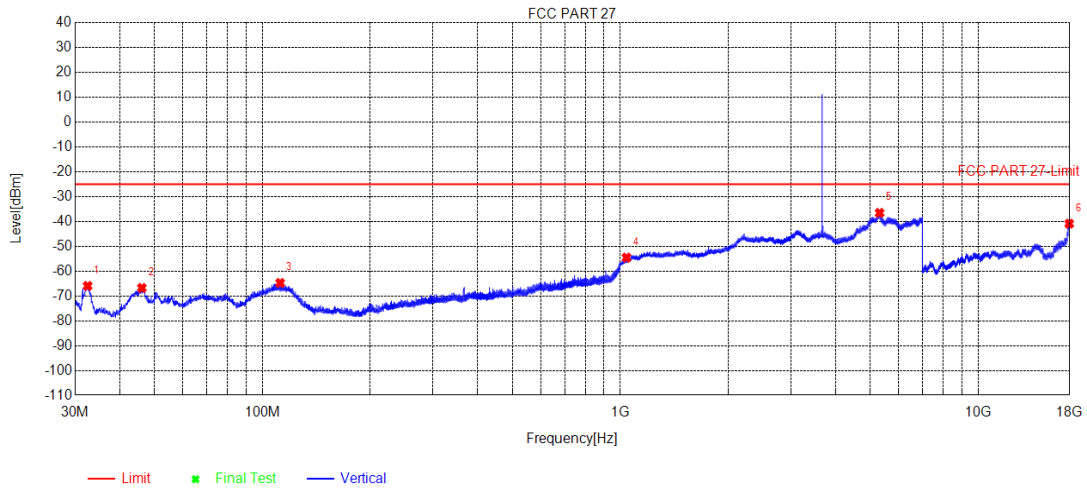


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**8.6. Test Band LTE\_Band48\_TM1 ANT2**

**8.6.1. Test Channel High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	32.5222	-68.51	-65.95	-25.00	40.95	Vertical
2	46.1031	-73.75	-66.76	-25.00	41.76	Vertical
3	112.1968	-79.89	-64.76	-25.00	39.76	Vertical
4	1041.5217	-70.46	-54.54	-25.00	29.54	Vertical
5	5306.2523	-68.49	-36.53	-25.00	11.53	Vertical
6	17973.598	-59.56	-40.86	-25.00	15.86	Vertical



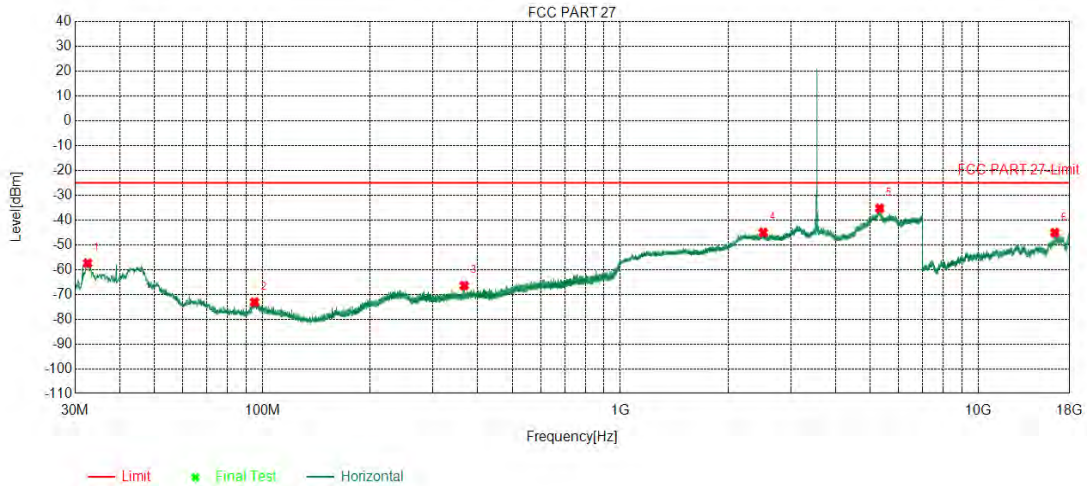
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**8.7. Test Band LTE\_Band48\_TM1 ANT3**

**8.7.1. Test Channel Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	32.5222	-69.99	-57.42	-25.00	32.42	Horizontal
2	95.1883	-76.87	-73.12	-25.00	48.12	Horizontal
3	366.6124	-78.00	-66.46	-25.00	41.46	Horizontal
4	2510.1404	-67.14	-45.03	-25.00	20.03	Horizontal
5	5309.8524	-68.04	-35.29	-25.00	10.29	Horizontal
6	16387.775	-59.80	-45.14	-25.00	20.14	Horizontal

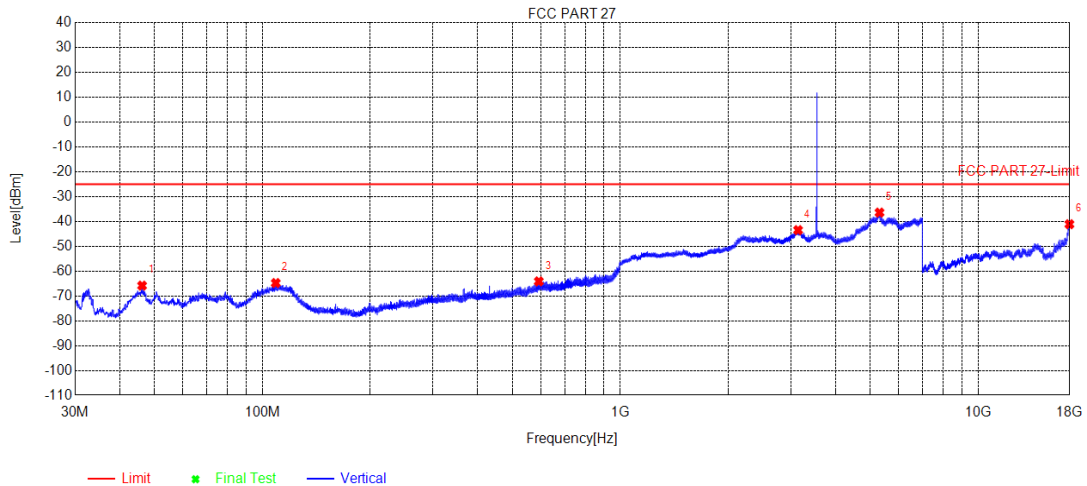


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**8.8. Test Band LTE\_Band48\_TM1 ANT3**

**8.8.1. Test Channel Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.1677	-72.83	-65.83	-25.00	40.83	Vertical
2	109.0926	-79.91	-64.79	-25.00	39.79	Vertical
3	592.5728	-80.27	-64.12	-25.00	39.12	Vertical
4	3140.6456	-66.97	-43.46	-25.00	18.46	Vertical
5	5303.3721	-68.14	-36.40	-25.00	11.40	Vertical
6	17991.199	-59.98	-41.08	-25.00	16.08	Vertical



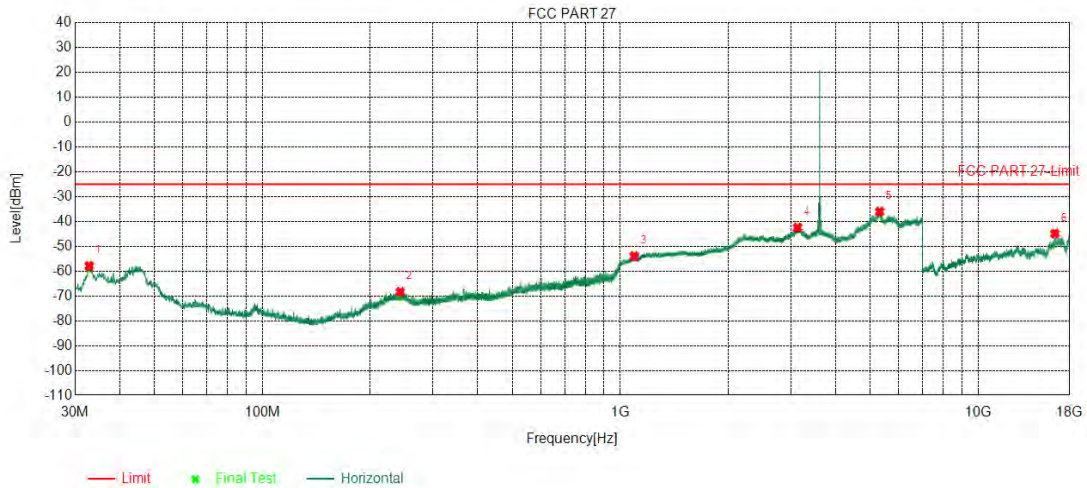
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**8.9. Test Band LTE\_Band48\_TM1 ANT3**

**8.9.1. Test Channel Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	32.8455	-70.70	-57.91	-25.00	32.91	Horizontal
2	243.1555	-80.01	-68.36	-25.00	43.36	Horizontal
3	1094.5638	-70.65	-53.98	-25.00	28.98	Horizontal
4	3130.3252	-67.16	-42.44	-25.00	17.44	Horizontal
5	5310.3324	-68.70	-35.97	-25.00	10.97	Horizontal
6	16397.015	-59.63	-44.83	-25.00	19.83	Horizontal

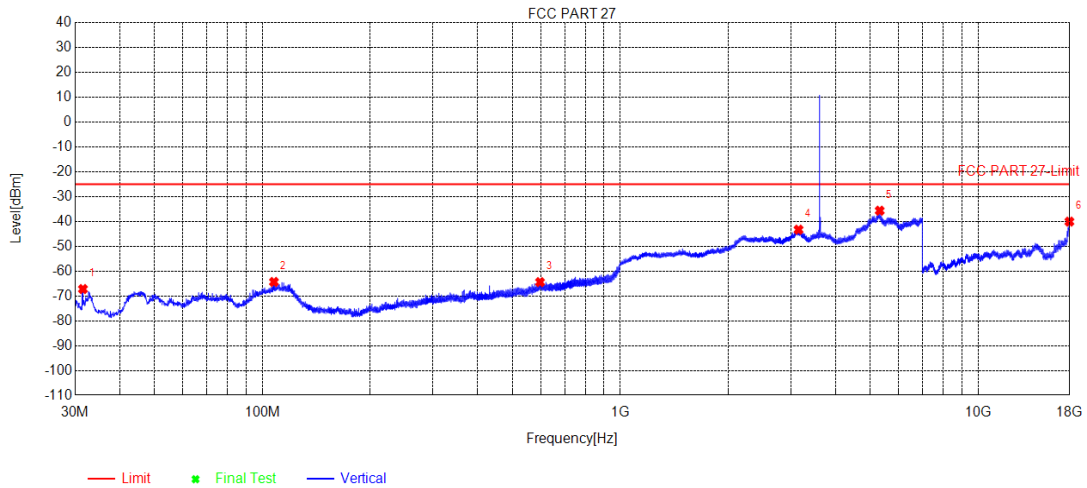


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**8.10. Test Band LTE\_Band48\_TM1 ANT3**

**8.10.1. Test Channel Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	31.5521	-70.74	-67.21	-25.00	42.21	Vertical
2	107.7992	-79.20	-64.34	-25.00	39.34	Vertical
3	597.1645	-80.79	-64.42	-25.00	39.42	Vertical
4	3150.0060	-66.89	-43.29	-25.00	18.29	Vertical
5	5309.1324	-67.81	-35.63	-25.00	10.63	Vertical
6	17989.879	-58.92	-40.04	-25.00	15.04	Vertical

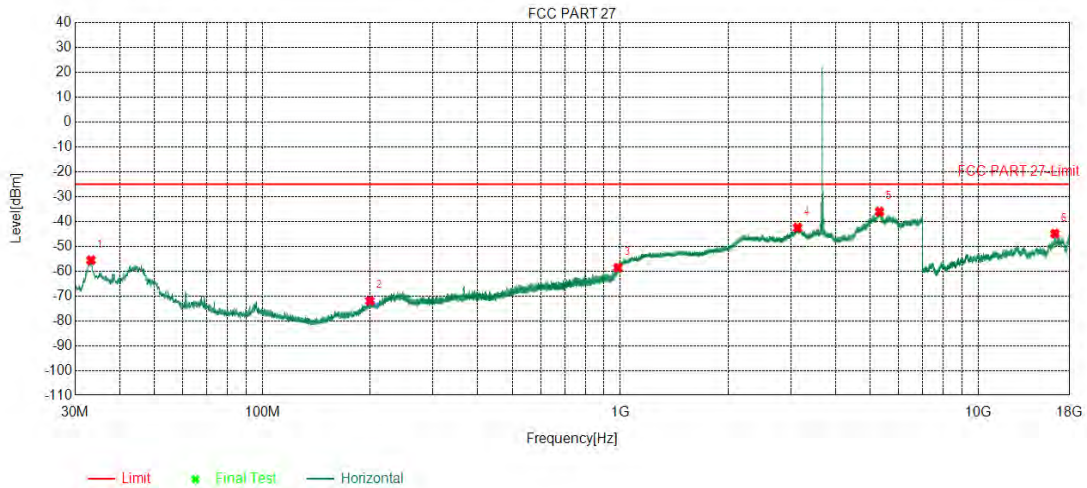


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**8.11. Test Band LTE\_Band48\_TM1 ANT3**

**8.11.1. Test Channel High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	33.2335	-68.63	-55.57	-25.00	30.57	Horizontal
2	199.9553	-80.32	-71.97	-25.00	46.97	Horizontal
3	985.2550	-81.96	-58.60	-25.00	33.60	Horizontal
4	3129.8452	-67.20	-42.47	-25.00	17.47	Horizontal
5	5304.0922	-68.33	-36.01	-25.00	11.01	Horizontal
6	16396.135	-59.63	-44.84	-25.00	19.84	Horizontal

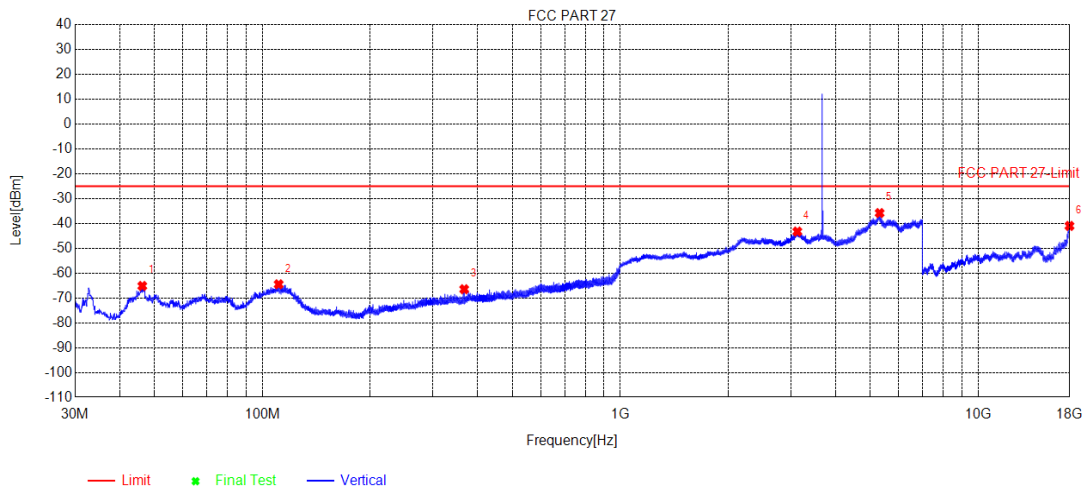


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**8.12. Test Band LTE\_Band48\_TM1 ANT3**

**8.12.1. Test Channel High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.2324	-72.17	-65.15	-25.00	40.15	Vertical
2	111.1621	-79.71	-64.49	-25.00	39.49	Vertical
3	366.6124	-77.77	-66.49	-25.00	41.49	Vertical
4	3126.0050	-67.10	-43.24	-25.00	18.24	Vertical
5	5306.9723	-67.81	-35.79	-25.00	10.79	Vertical
6	17999.560	-59.95	-40.96	-25.00	15.96	Vertical

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 9. Frequency Stability

### 9.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band48	20MHz	QPSK	55340	100RB#0	VL	NT	11.30	0.00317	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	VN	NT	14.50	0.00407	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	VH	NT	-6.36	-0.00179	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	VL	NT	-8.03	-0.00222	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	-13.49	-0.00372	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	-13.18	-0.00364	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	VL	NT	-2.52	-0.00068	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	VN	NT	-2.92	-0.00079	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	VH	NT	7.89	0.00214	±2.5	PASS



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## 9.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band48	20MHz	QPSK	55340	100RB#0	NV	-30	-9.29	-0.00256	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	-20	4.89	0.00135	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	-10	6.37	0.00176	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	0	-2.47	-0.00068	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	10	8.51	0.00235	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	20	-14.11	-0.00389	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	30	-7.89	-0.00218	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	40	10.95	0.00302	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	50	-8.92	-0.00246	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	-4.82	-0.00133	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	1.45	0.00040	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	-2.07	-0.00057	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	5.04	0.00139	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	12.08	0.00333	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	-11.61	-0.00320	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	6.37	0.00176	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	3.8	0.00105	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	-2.14	-0.00059	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	-30	-3.75	-0.00103	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	-20	0.88	0.00024	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	-10	-12.37	-0.00341	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	0	-1.97	-0.00054	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	10	-4.45	-0.00123	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	20	5.7	0.00157	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	30	11.81	0.00326	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	40	4.89	0.00135	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	50	10.95	0.00302	±2.5	PASS

The End



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