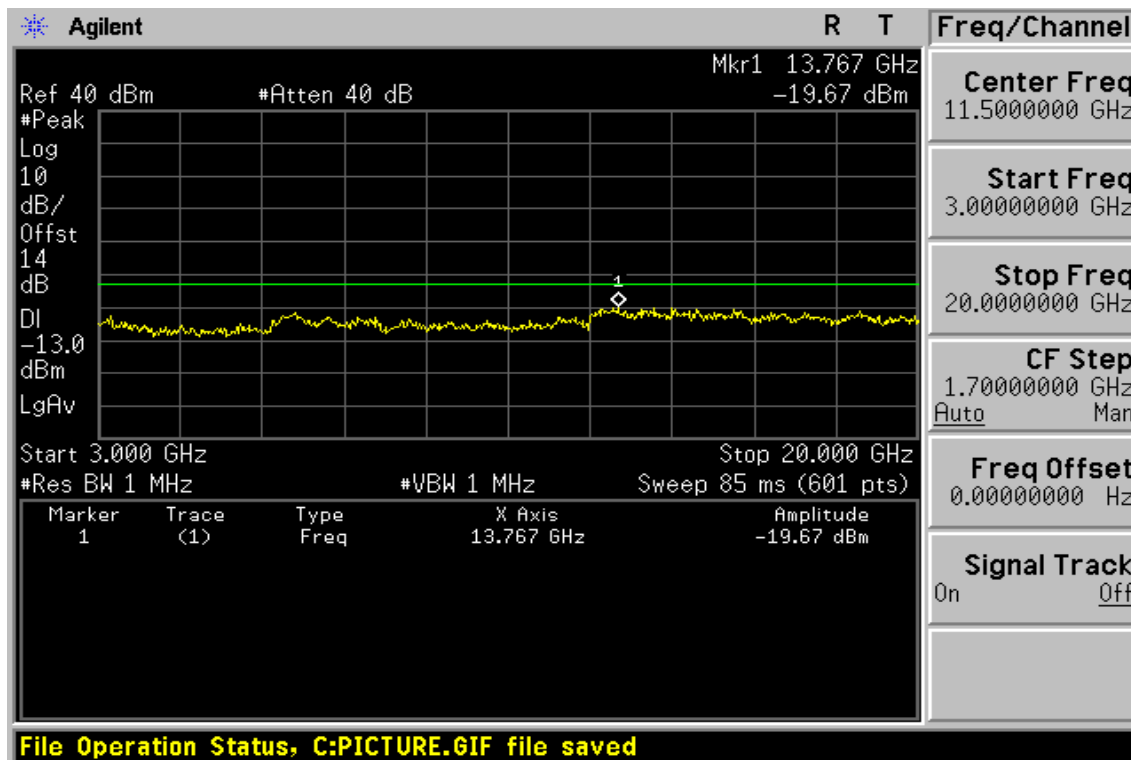
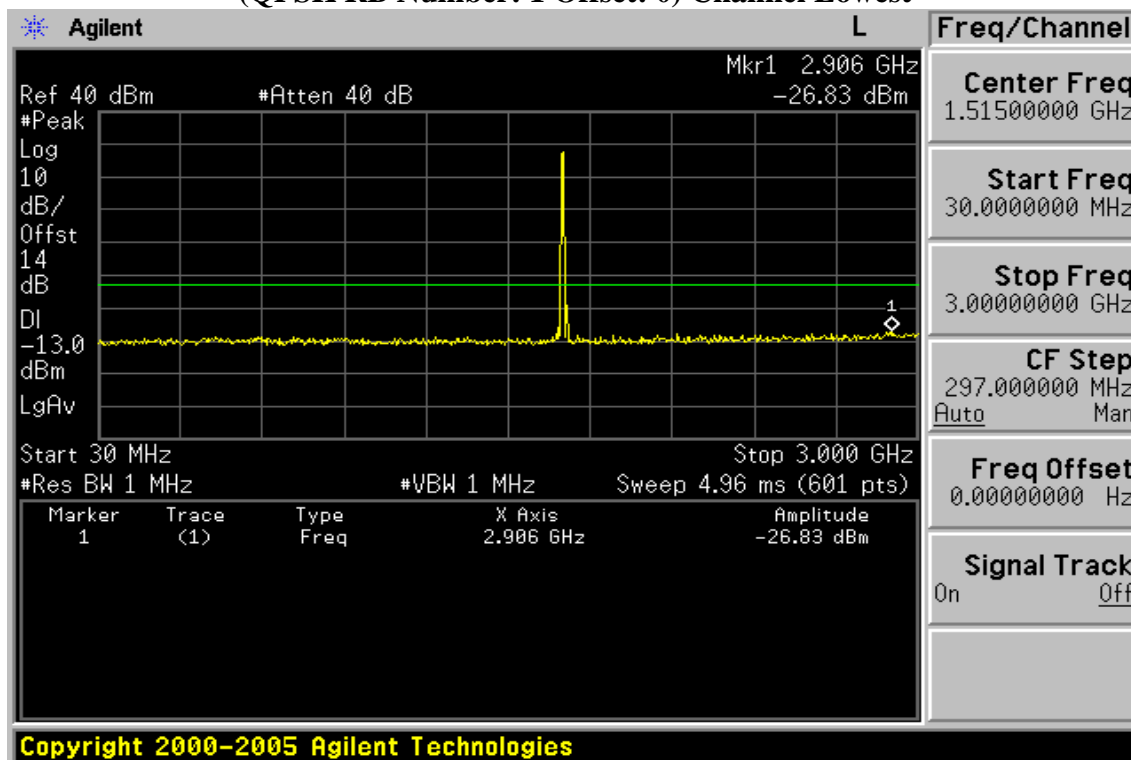


**Figure 9-139: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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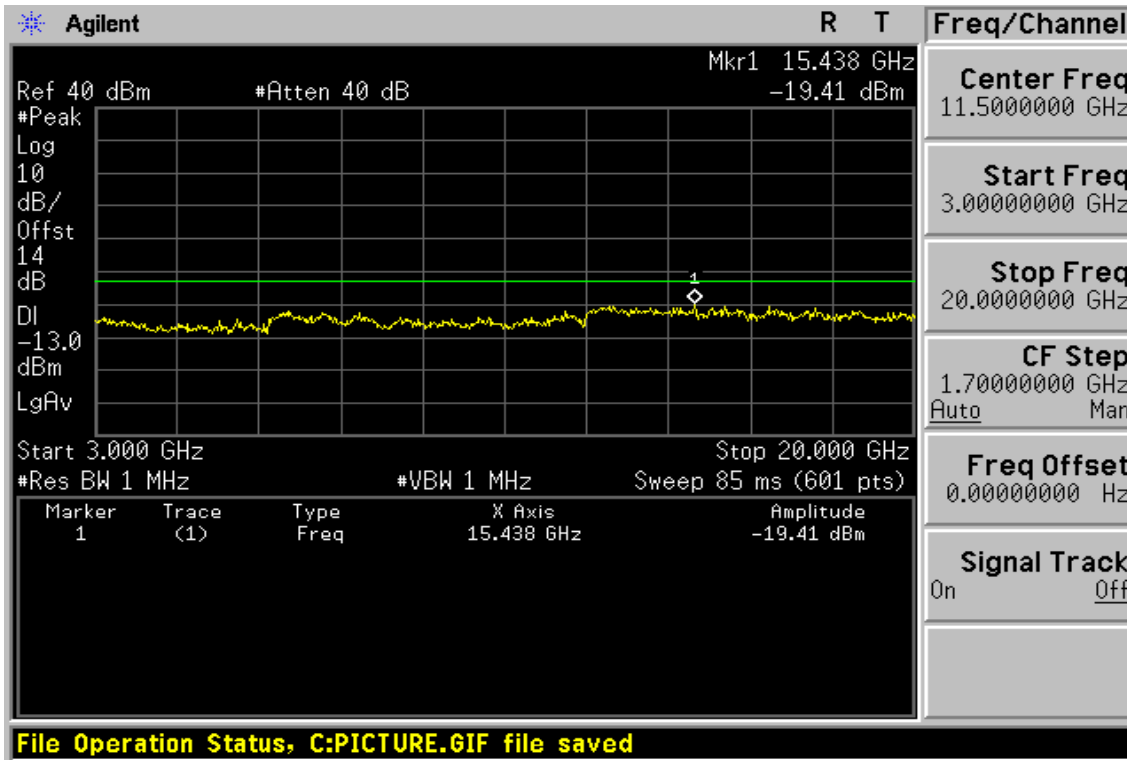
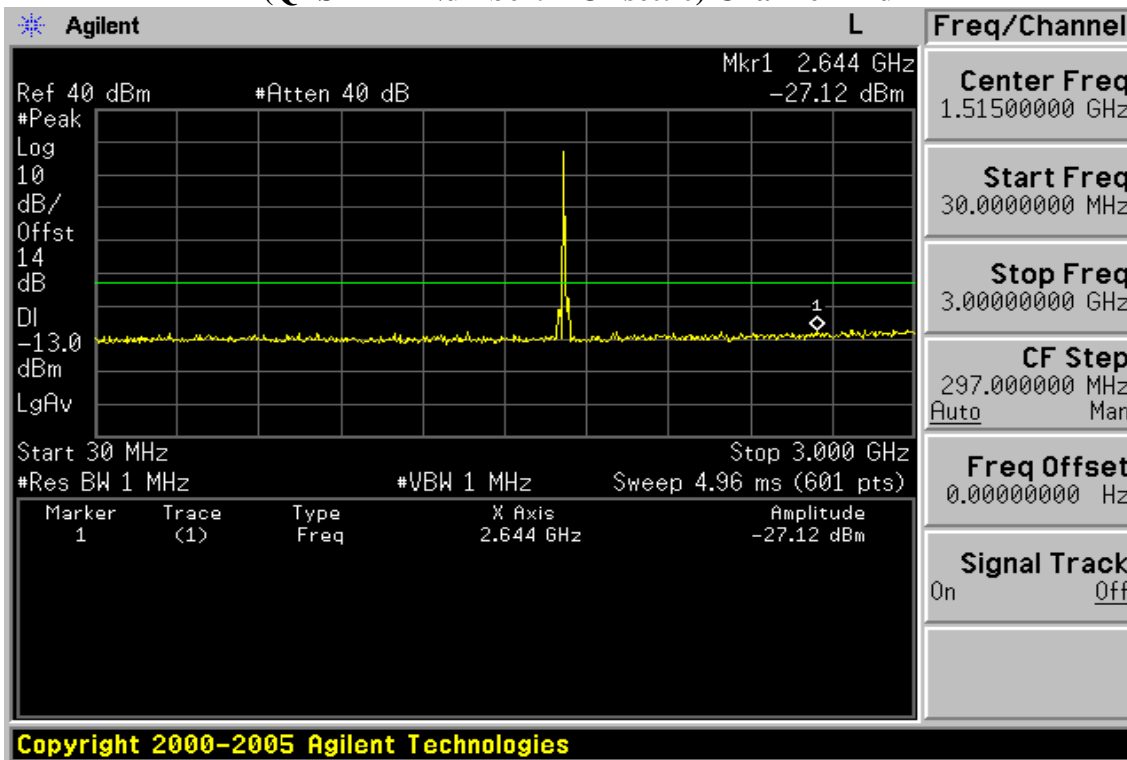
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**Figure 9-140: Out of Band emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid**

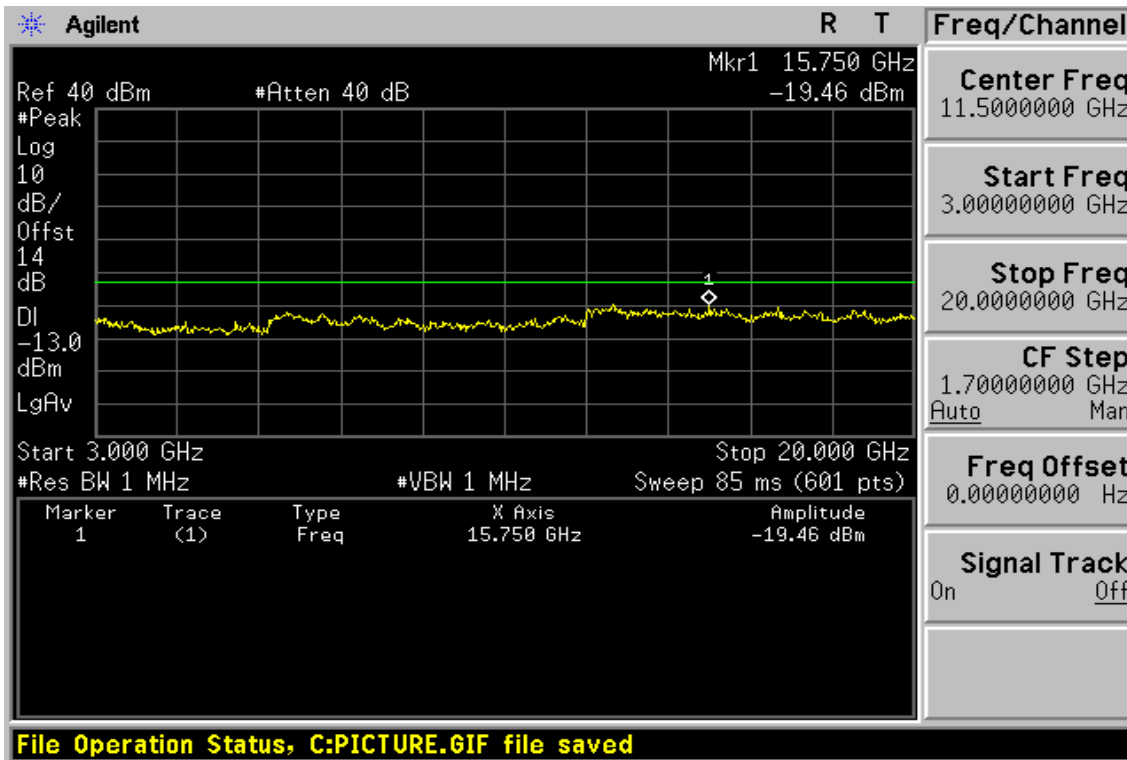
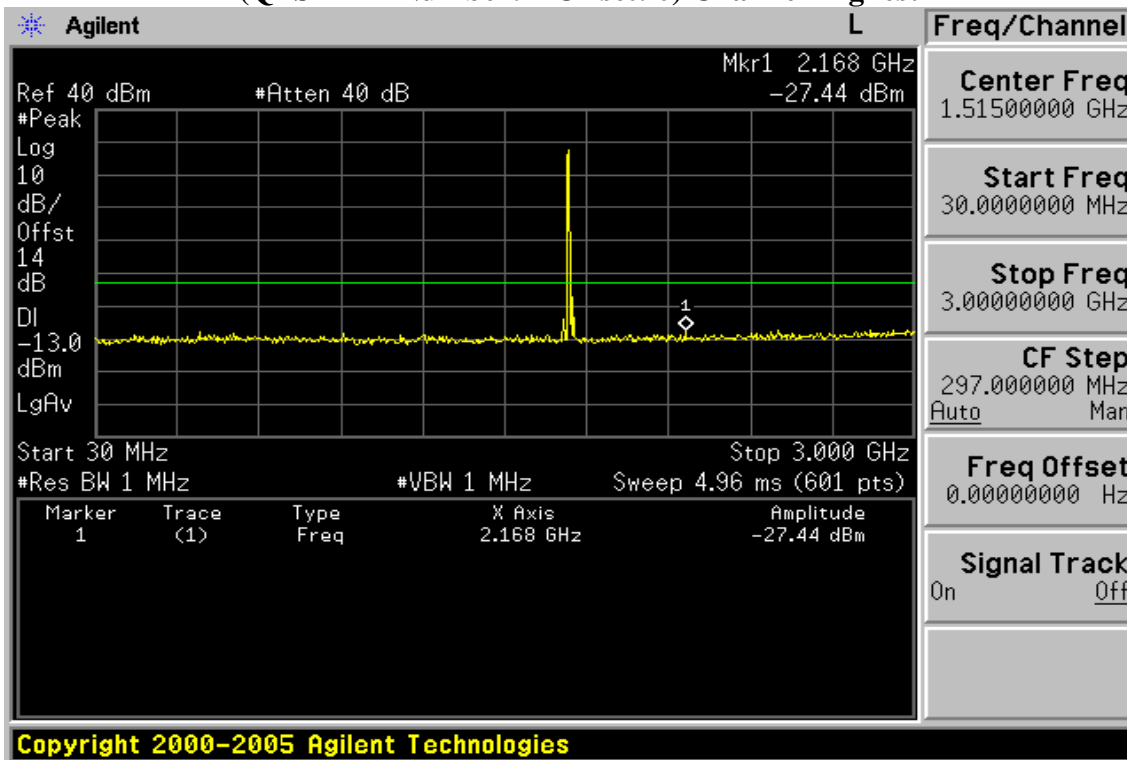


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**Figure 9-141: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 4**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :1715.0 MHz Engineer :Marcus  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3430.00	H	---	-13.00	---
5145.00	H	---	-13.00	---
6860.00	H	---	-13.00	---
8575.00	H	---	-13.00	---
10290.00	H	---	-13.00	---
12005.00	H	---	-13.00	---
13720.00	H	---	-13.00	---
13767.00	S	-19.67	-13.00	6.67
15435.00	H	---	-13.00	---
17150.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :1732.5 MHz Engineer :Marcus  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13860.00	H	---	-13.00	---
15438.00	S	-19.41	-13.00	6.41
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :1750.0MHz Engineer :Marcus  
 Operation Mode :TX High

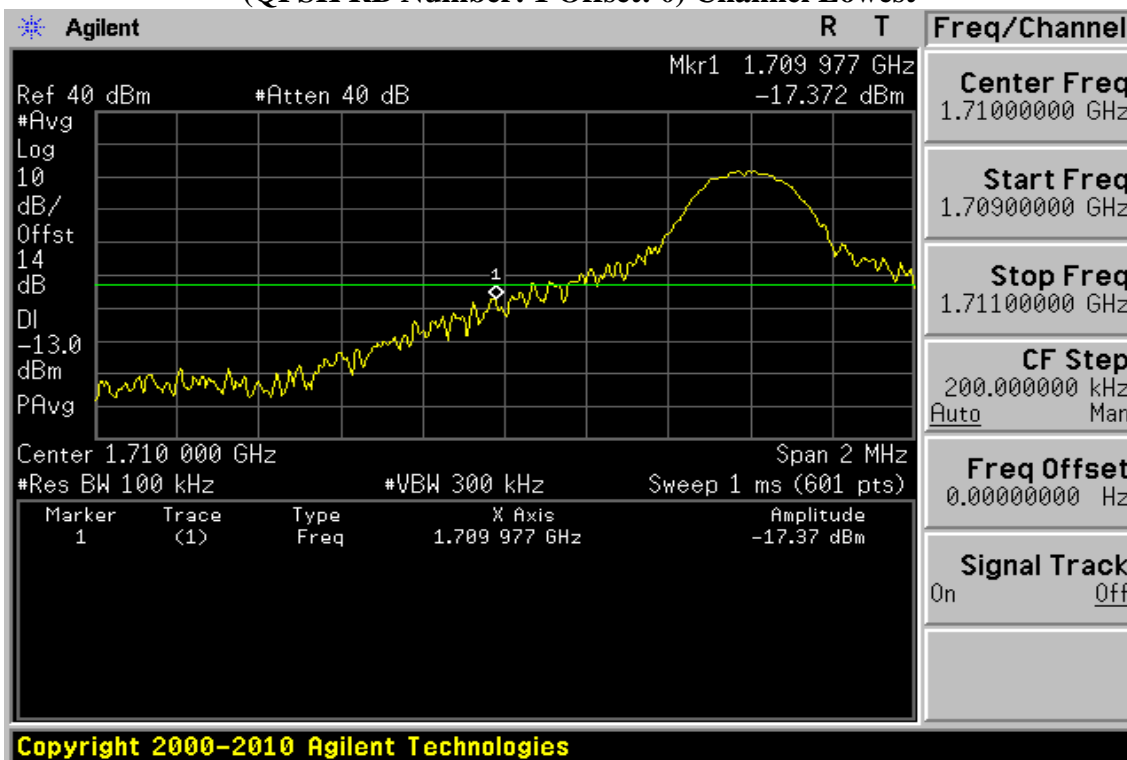
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3500.00	H	---	-13.00	---
5250.00	H	---	-13.00	---
7000.00	H	---	-13.00	---
8750.00	H	---	-13.00	---
10500.00	H	---	-13.00	---
12250.00	H	---	-13.00	---
14000.00	H	---	-13.00	---
15750.00	H	-19.46	-13.00	6.46
17500.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Spurious Frequency

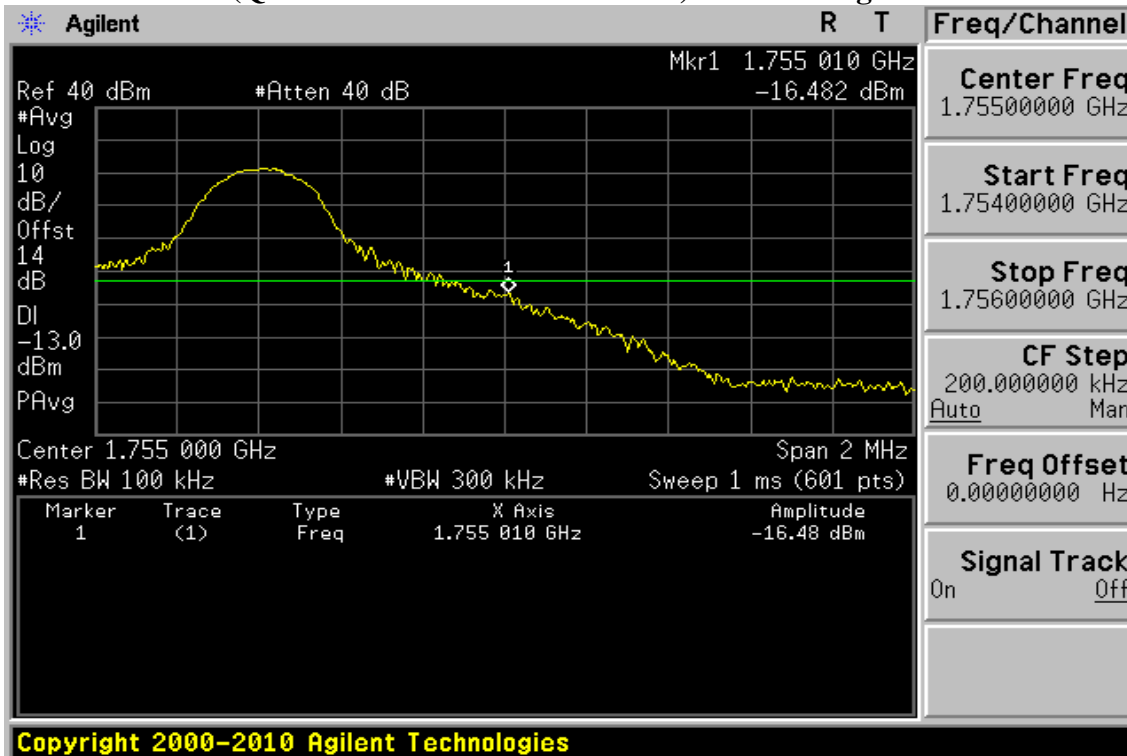
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**Figure 9-142: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-143: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 4**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)**

Test Mode 10MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.977	-17.37	-13.00	4.37
1755.010	-16.48	-13.00	3.48

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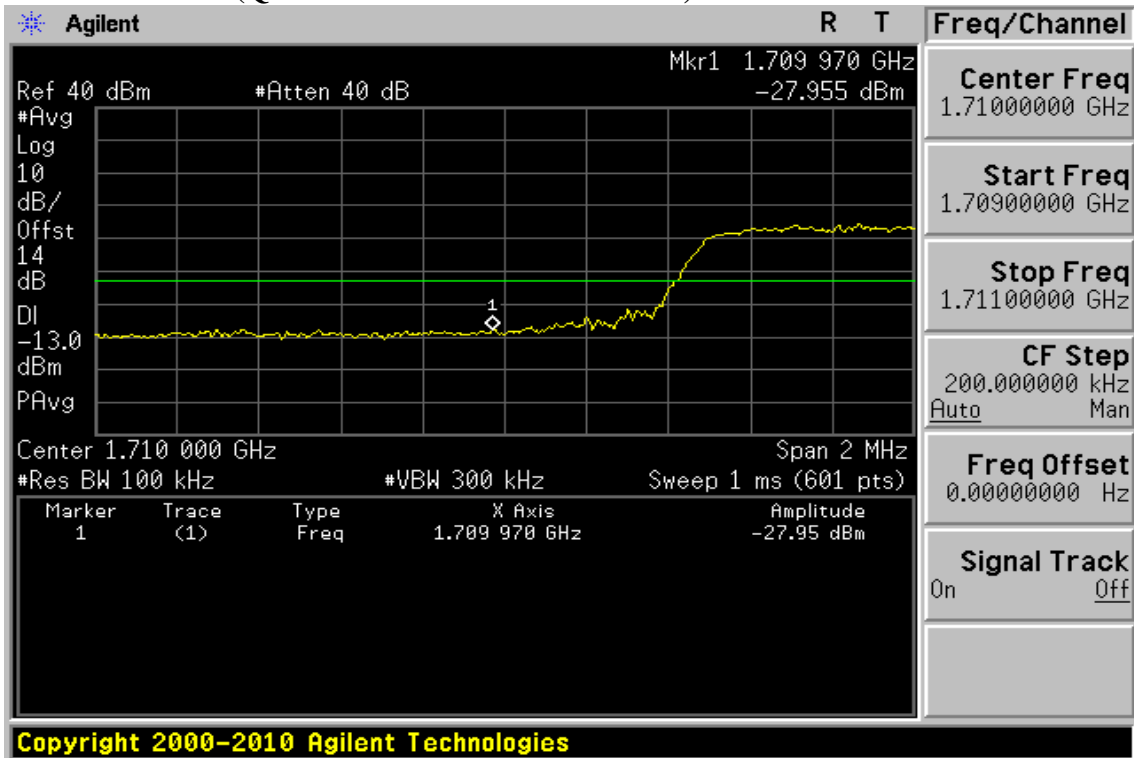
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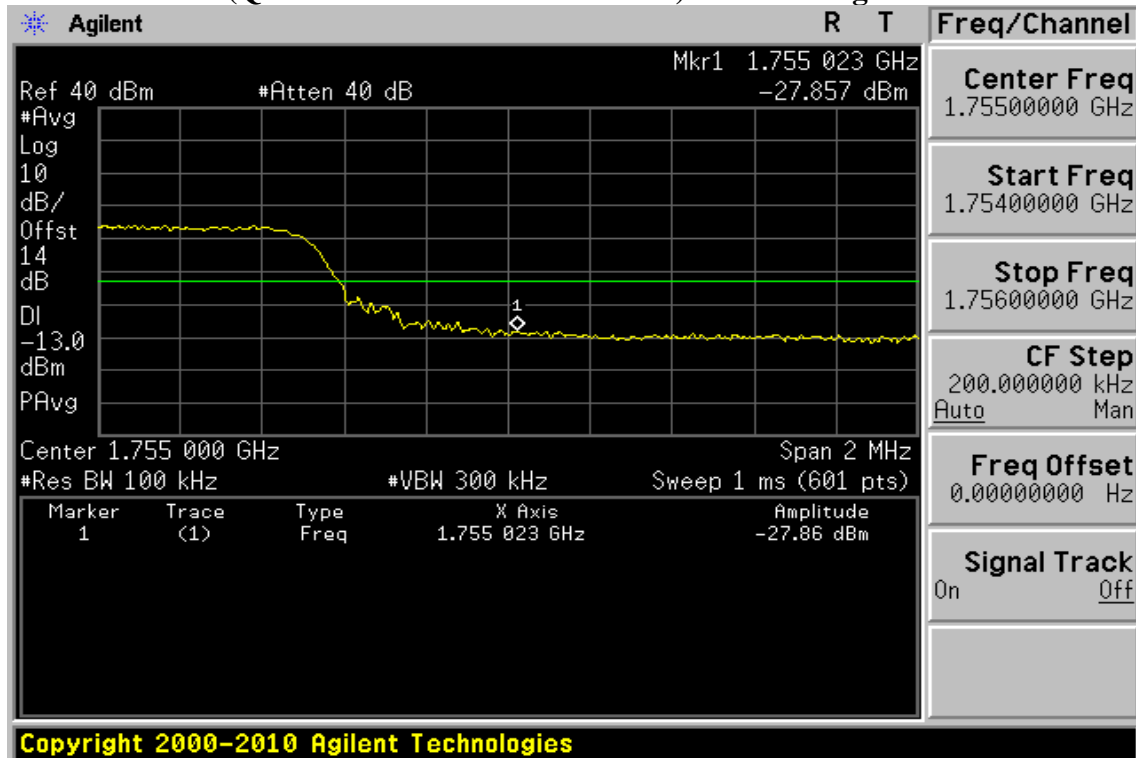
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**Figure 9-144: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-145: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 4**

**(QPSK RB Number: 50 Offset: 0)**

Test Mode                      10MHz BW LTE-Band 4      Engineer    :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.970	-27.95	-13.00	14.95
1755.023	-27.86	-13.00	14.86

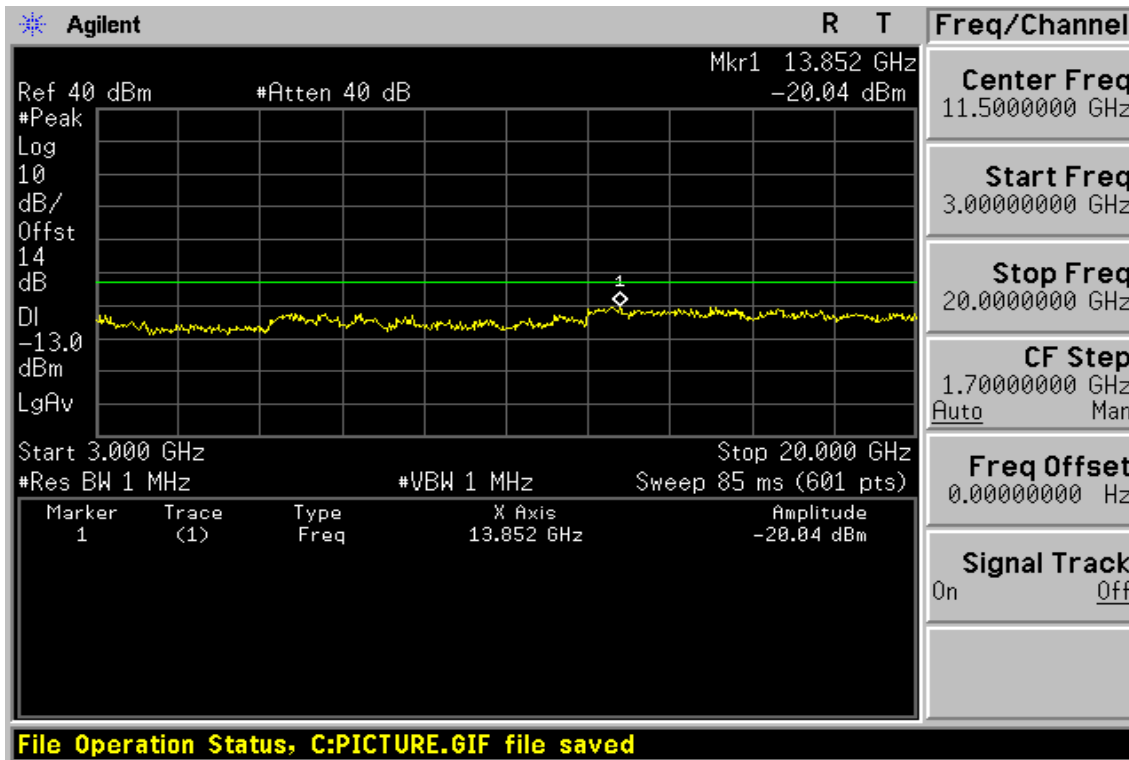
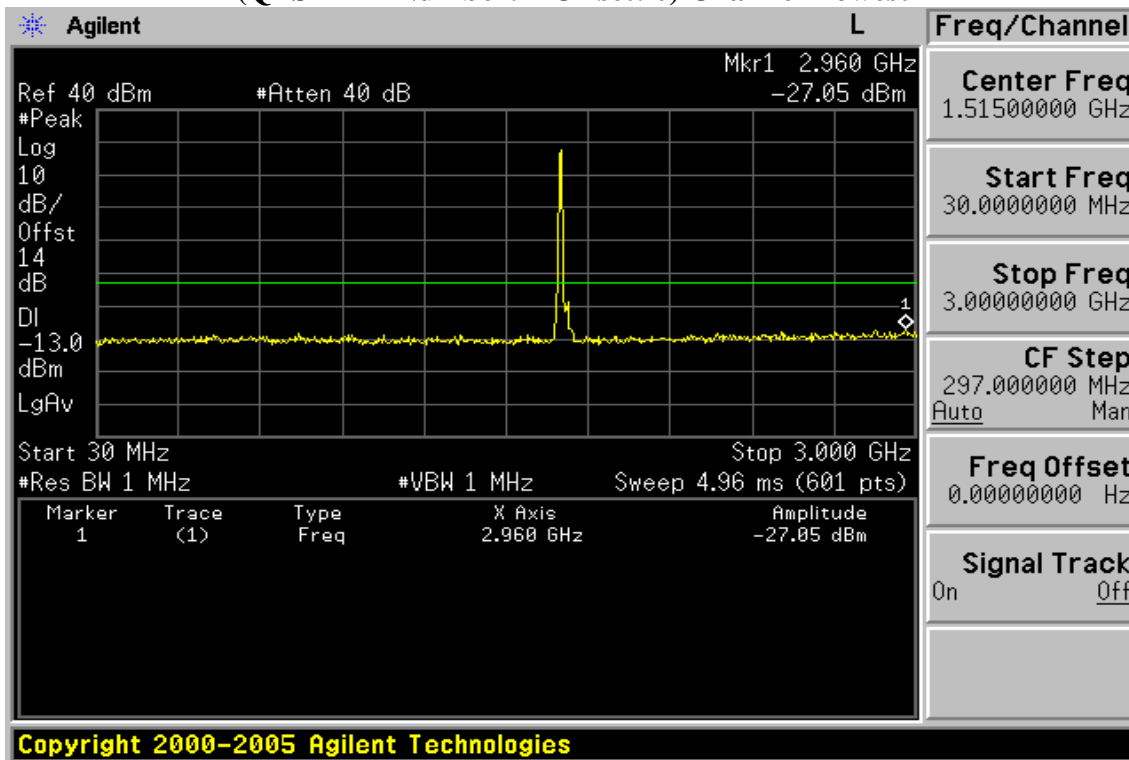
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**Figure 9-146: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

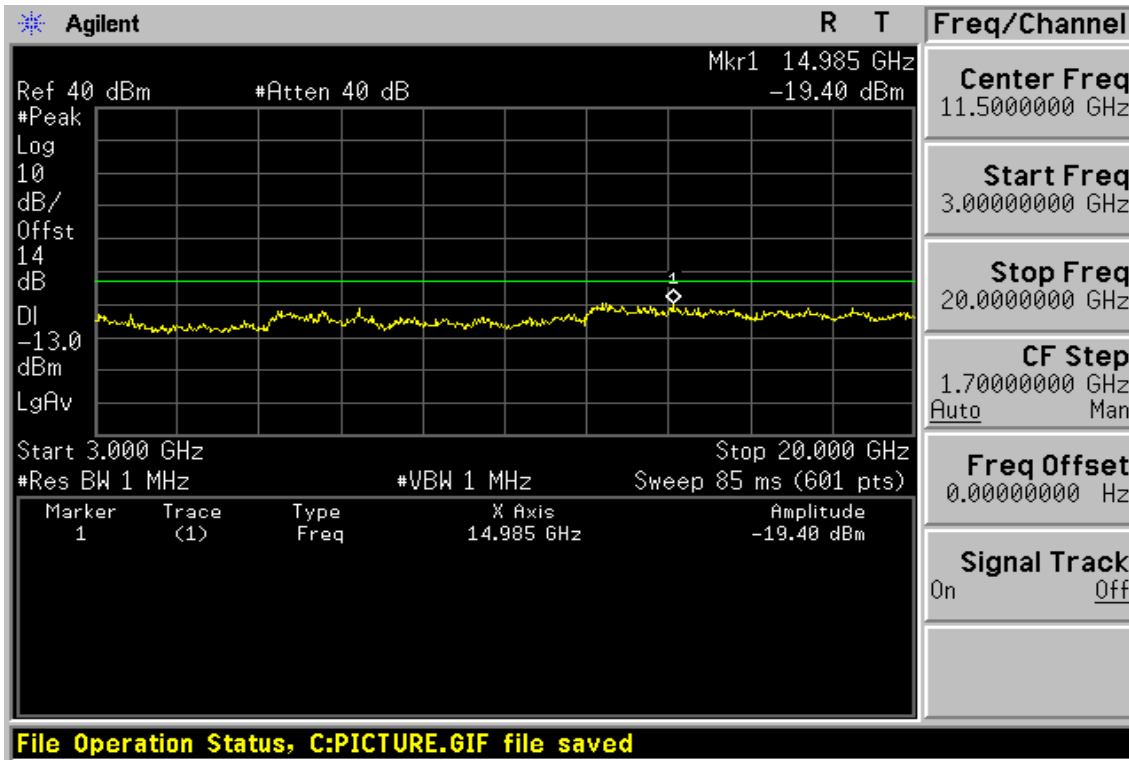
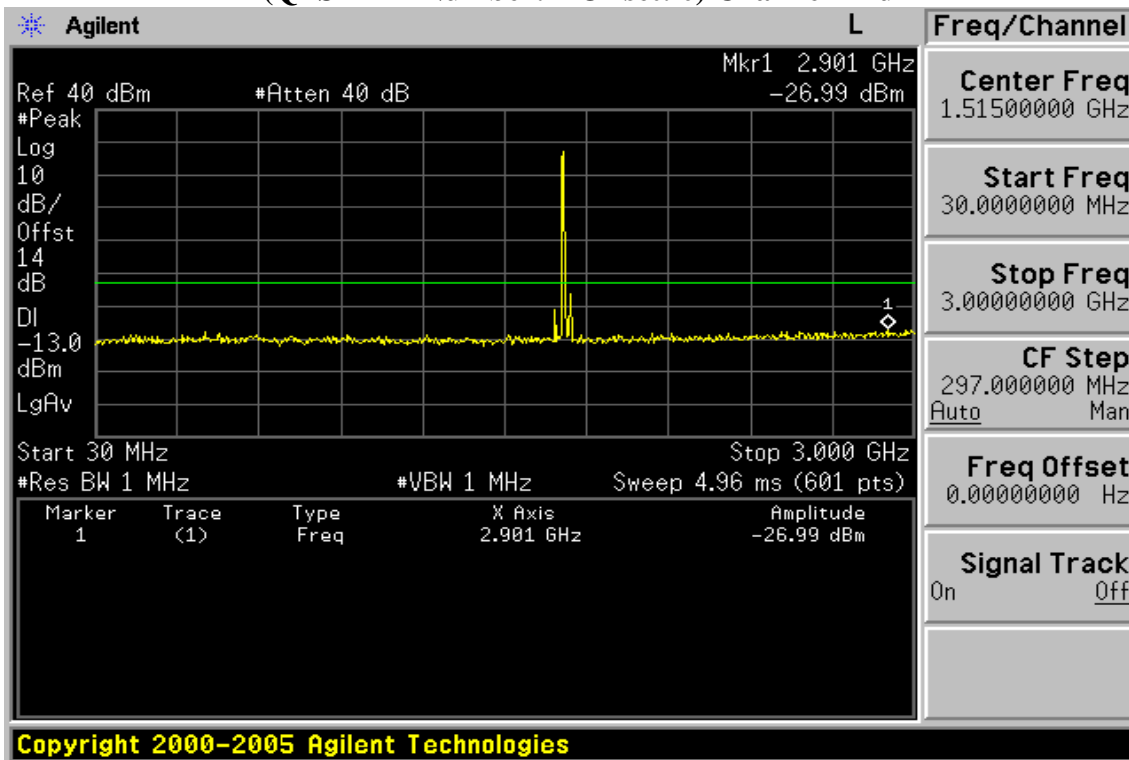


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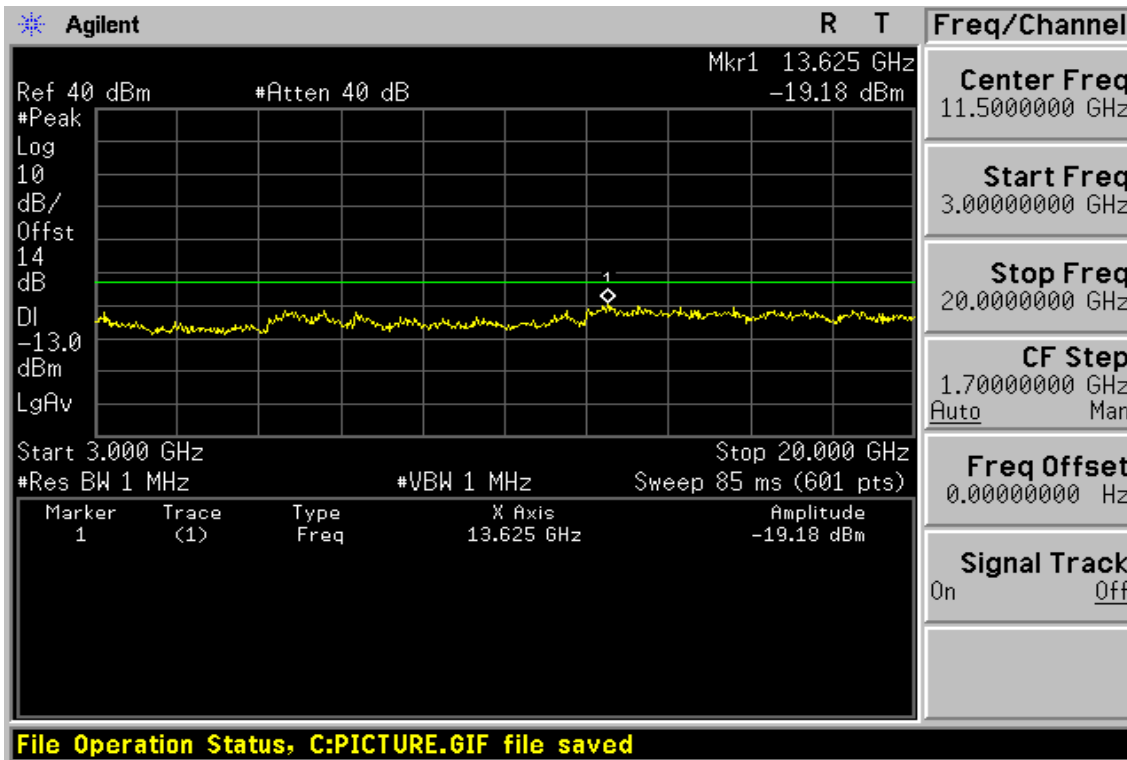
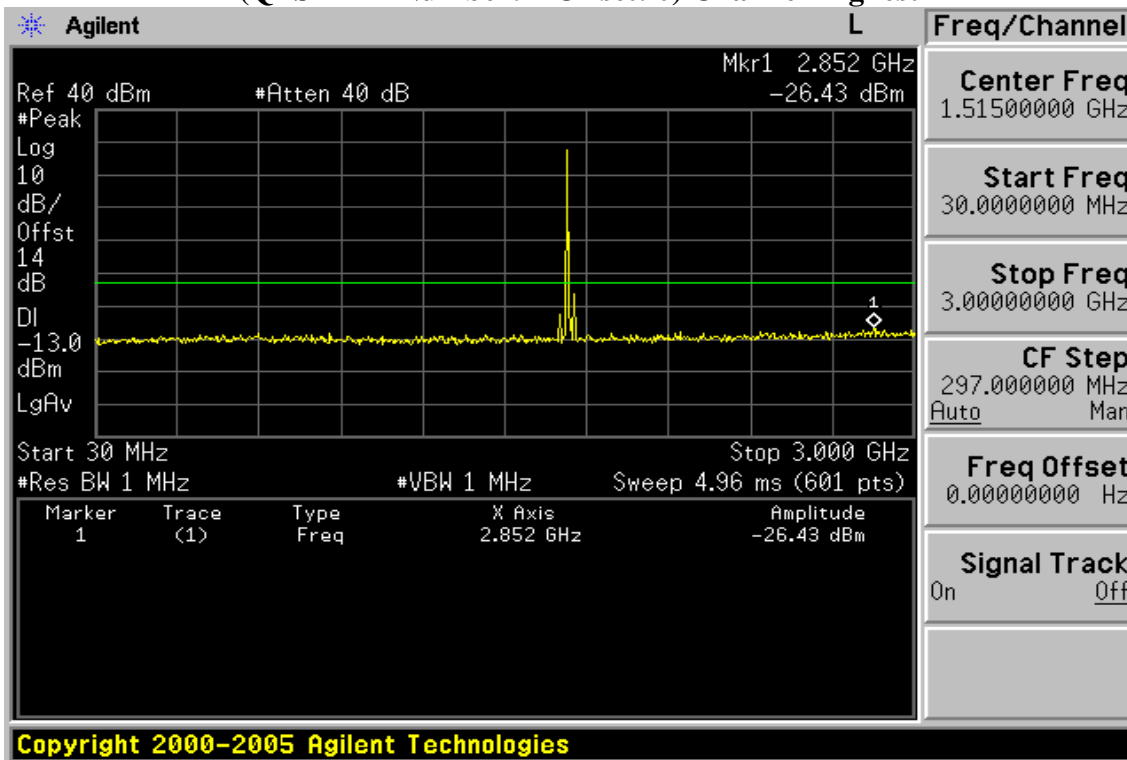
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**Figure 9-147: Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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**Figure 9-148: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –15MHz BW LTE-Band 4**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :1717.5 MHz Engineer :Marcus  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3435.00	H	---	-13.00	---
5152.50	H	---	-13.00	---
6870.00	H	---	-13.00	---
8587.50	H	---	-13.00	---
10305.00	H	---	-13.00	---
12022.50	H	---	-13.00	---
13740.00	H	---	-13.00	---
13852.00	S	-20.04	-13.00	7.04
15457.50	H	---	-13.00	---
17175.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :1732.5 MHz Engineer :Marcus  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13860.00	H	---	-13.00	---
14985.00	S	-19.40	-13.00	6.40
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :1747.5MHz Engineer :Marcus  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3495.00	H	---	-13.00	---
5242.50	H	---	-13.00	---
6990.00	H	---	-13.00	---
8737.50	H	---	-13.00	---
10485.00	H	---	-13.00	---
12232.50	H	---	-13.00	---
13625.00	S	-19.18	-13.00	6.18
13980.00	H	---	-13.00	---
15727.50	H	---	-13.00	---
17475.00	H	---	-13.00	---

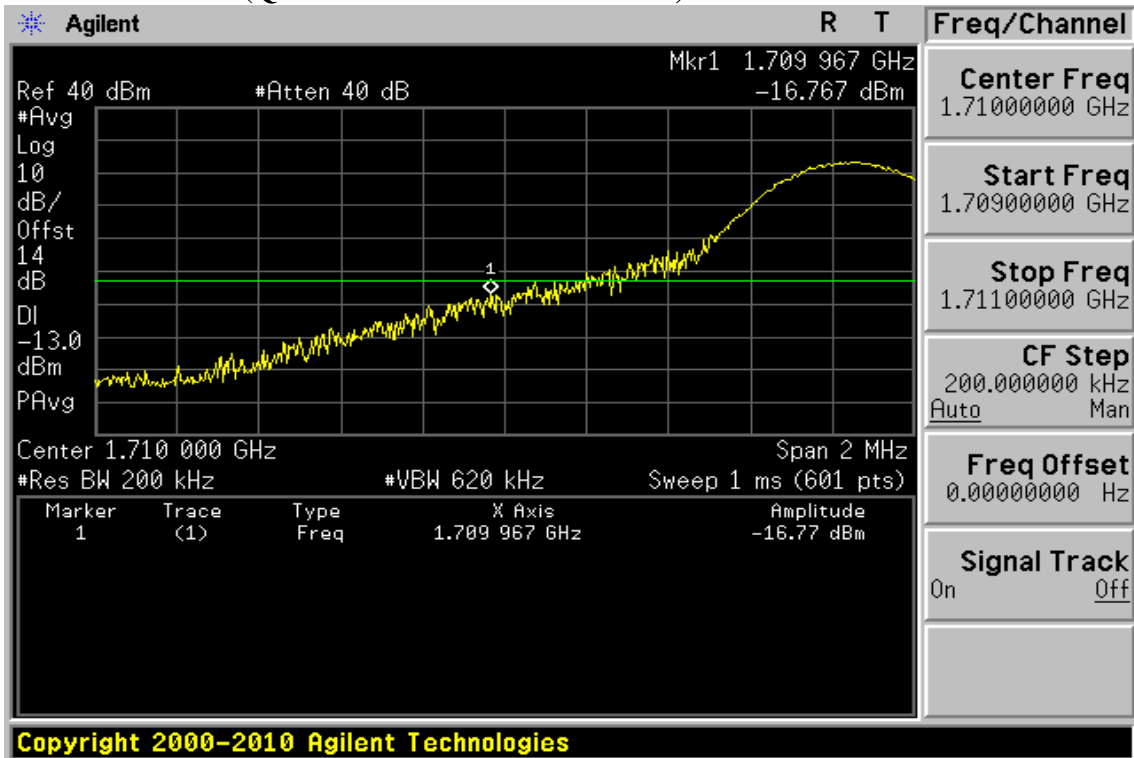
Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

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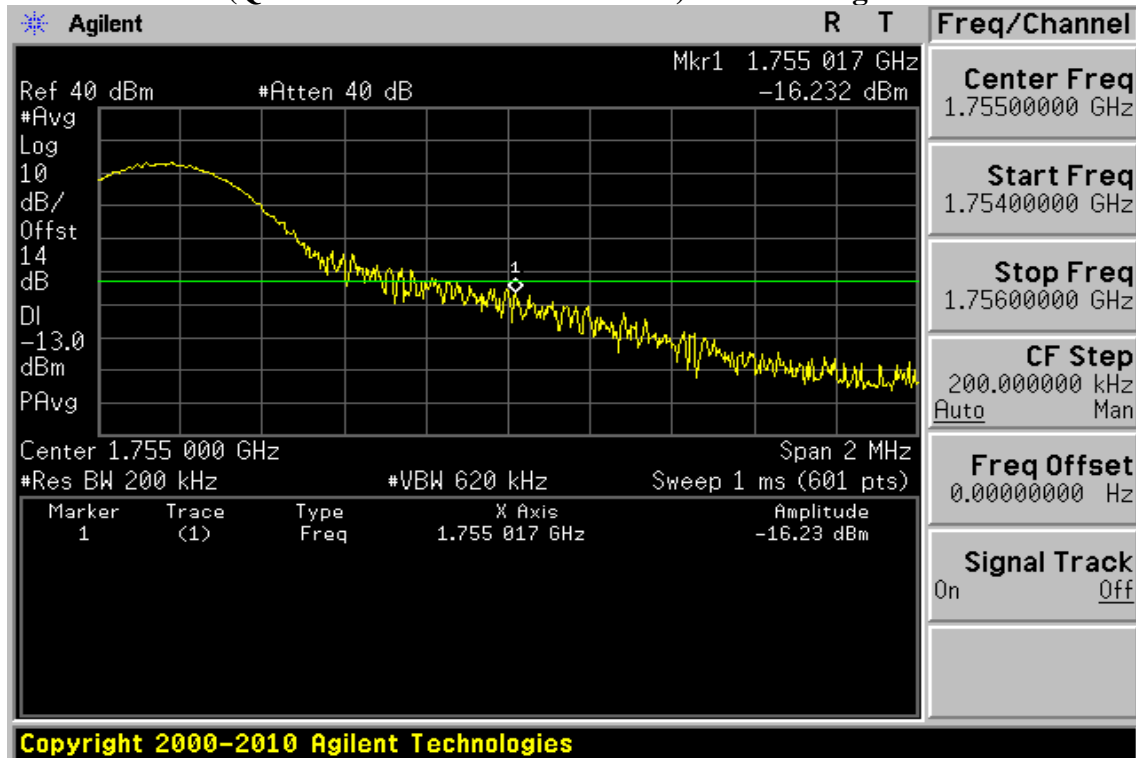
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**Figure 9-149: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-150: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Highest**



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**Band edge emission at antenna terminals –15MHz BW LTE-Band 4**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 74)**

Test Mode 15MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.967	-16.77	-13.00	3.77
1755.017	-16.23	-13.00	3.23

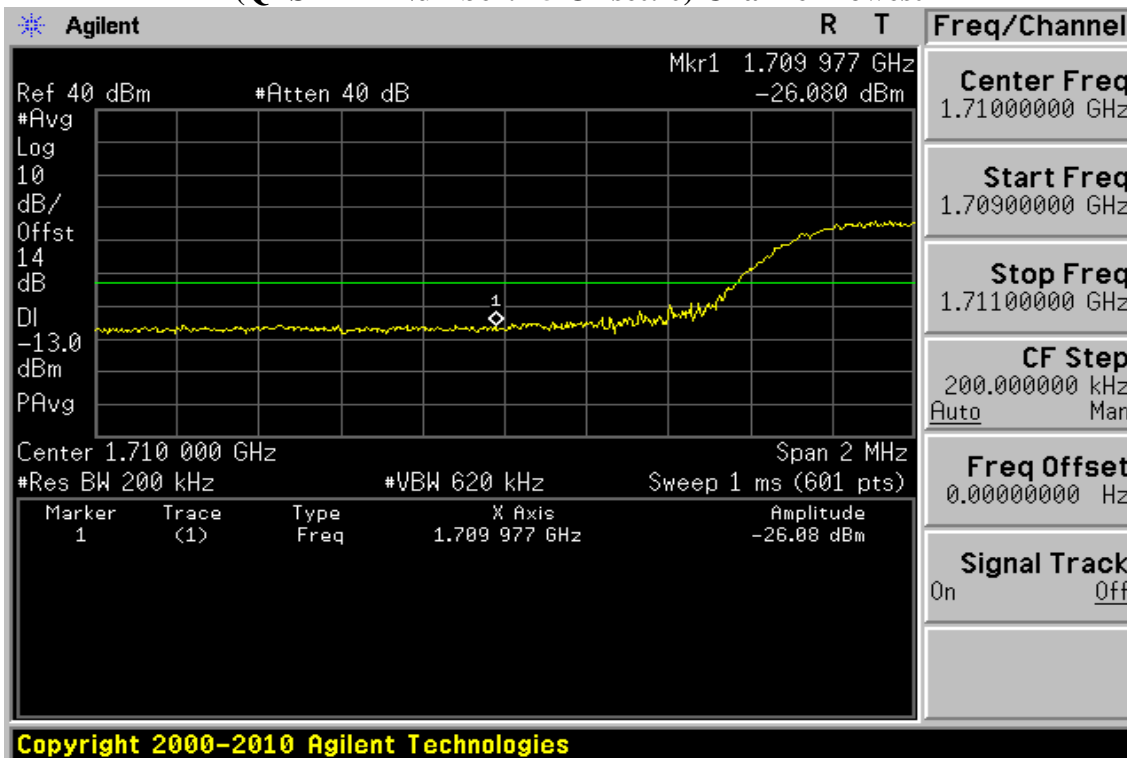
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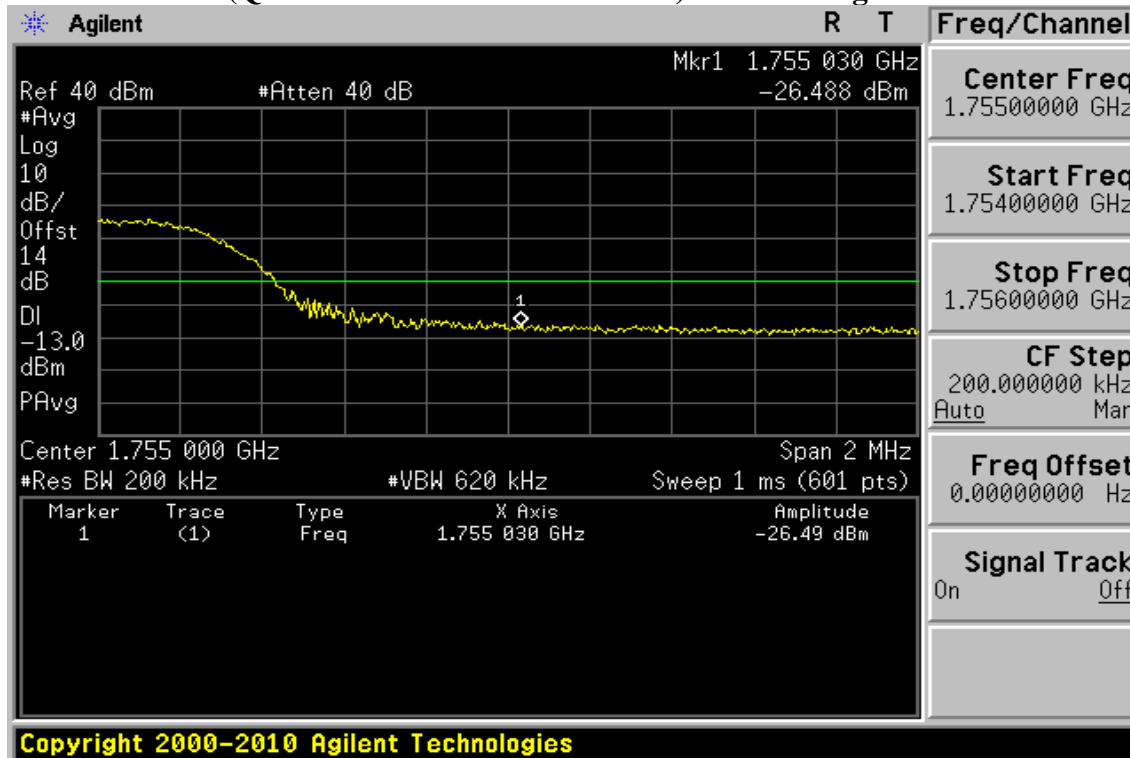
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**Figure 9-151: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Figure 9-152: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –15MHz BW LTE-Band 4****(QPSK RB Number: 75 Offset: 0)**

Test Mode 15MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.977	-26.08	-13.00	13.08
1755.030	-26.49	-13.00	13.49

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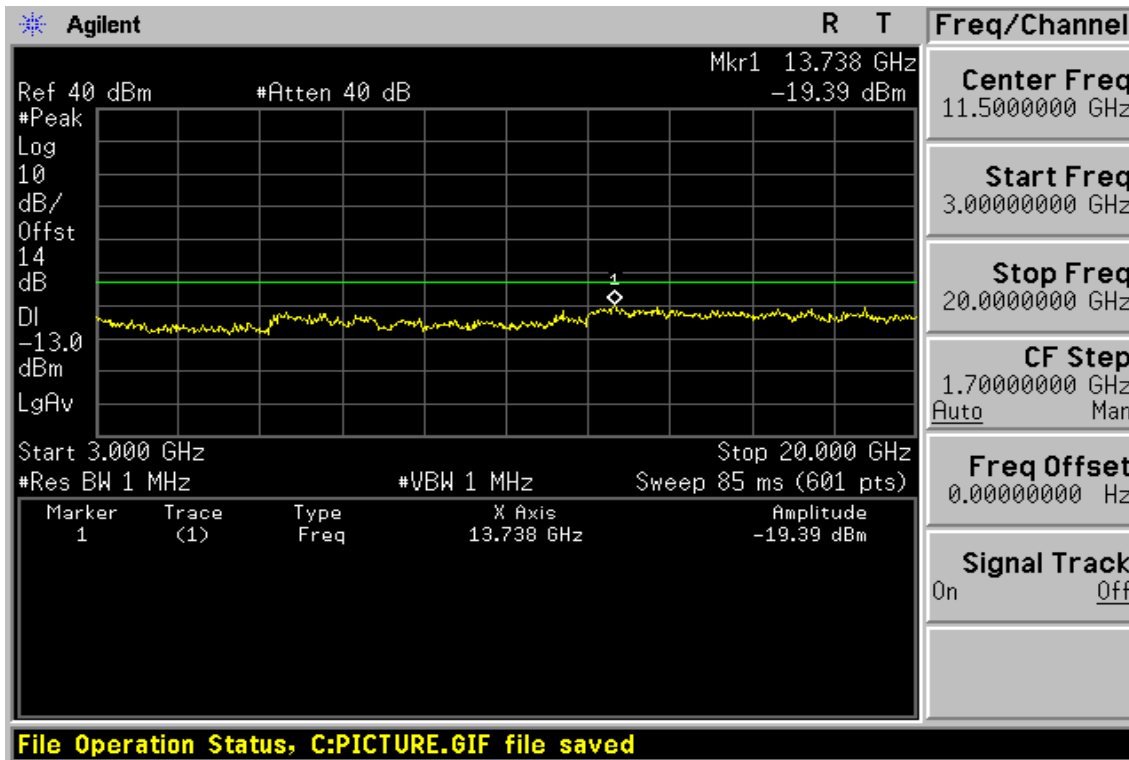
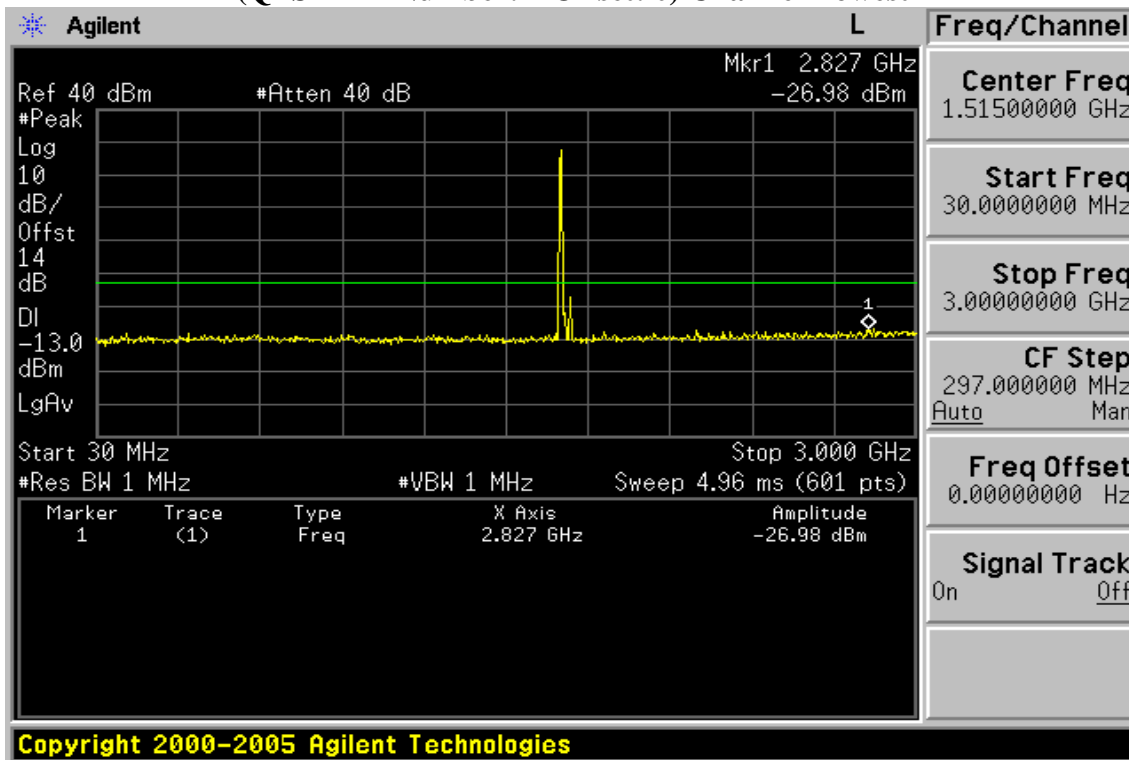
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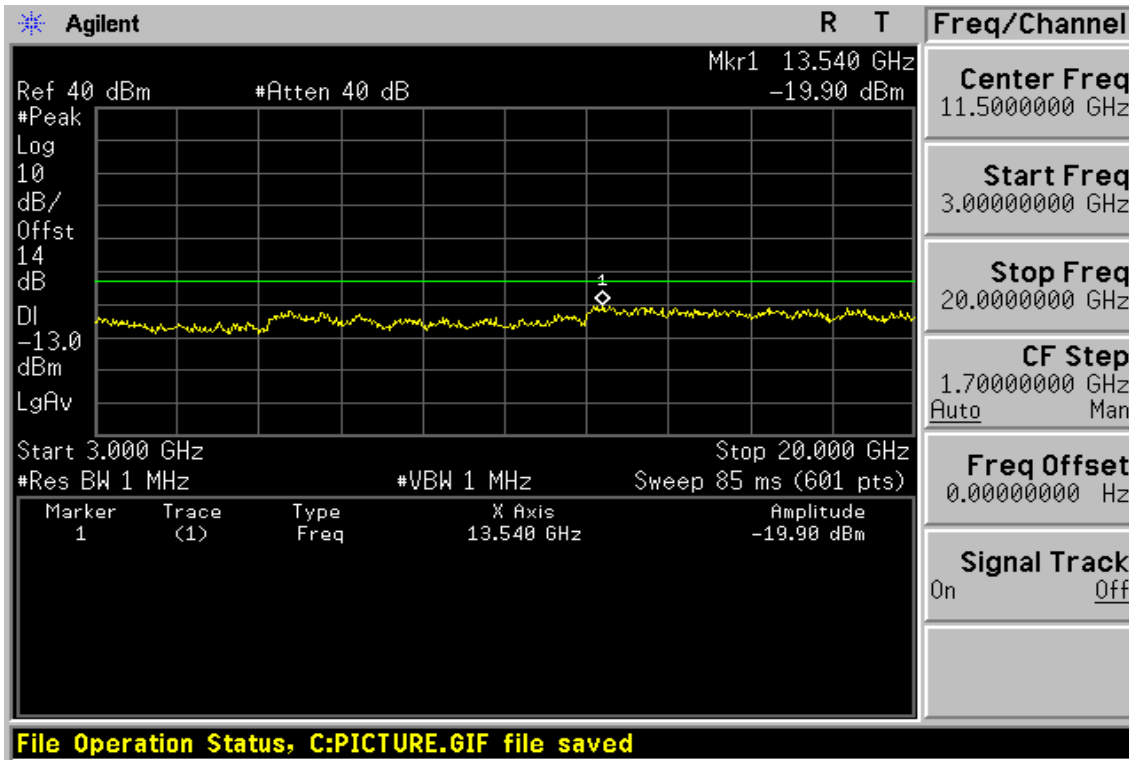
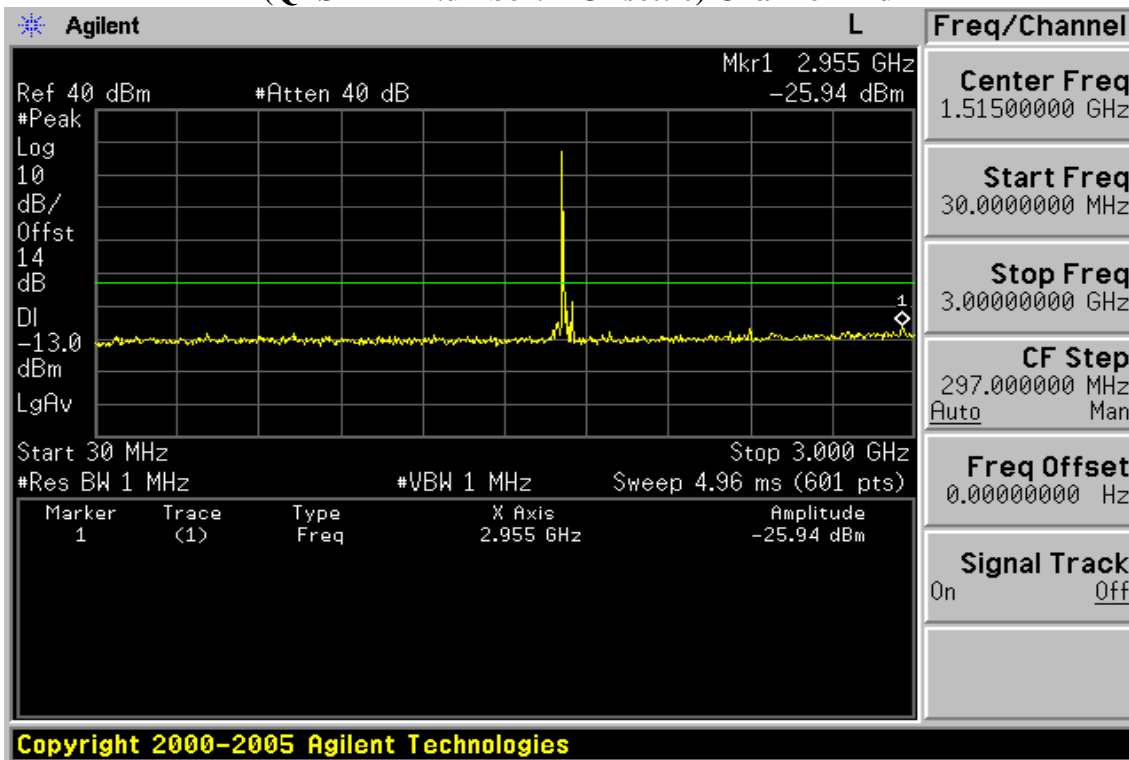
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**Figure 9-153: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 9-154: Out of Band emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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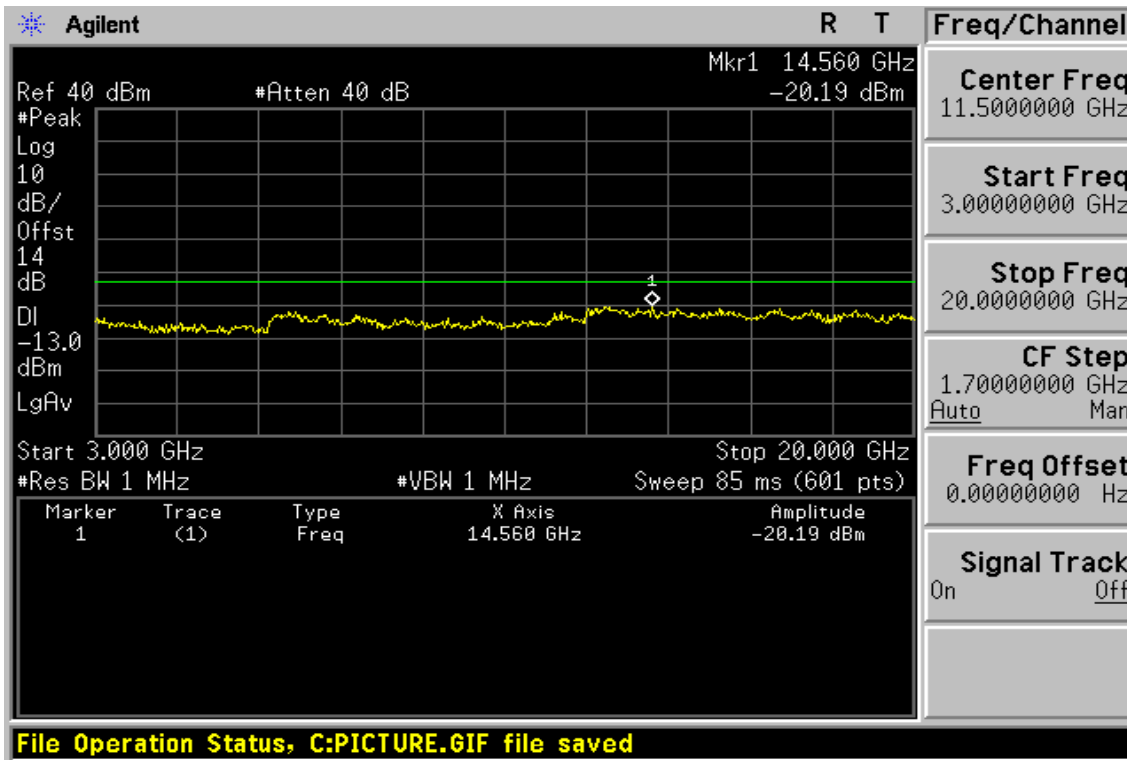
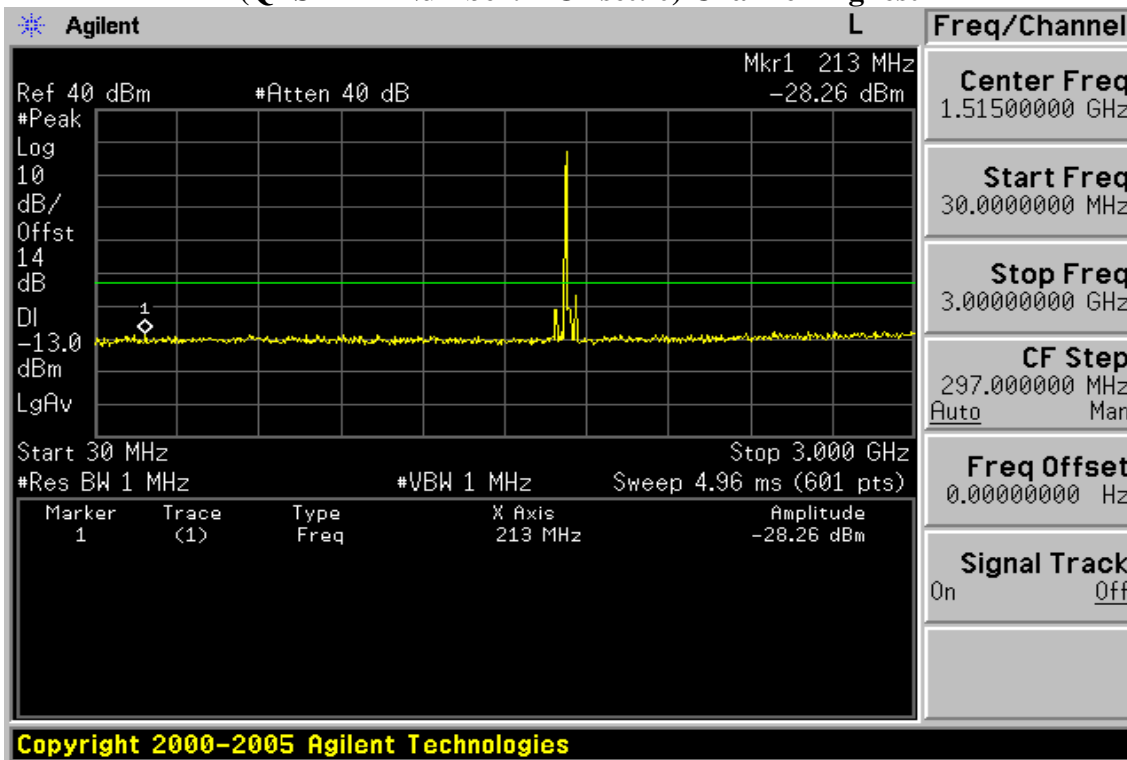
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**Figure 9-155: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –20MHz BW LTE-Band 4**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :1720.0 MHz Engineer :Marcus  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3440.00	H	---	-13.00	---
5160.00	H	---	-13.00	---
6880.00	H	---	-13.00	---
8600.00	H	---	-13.00	---
10320.00	H	---	-13.00	---
12040.00	H	---	-13.00	---
13738.00	S	-19.39	-13.00	6.39
13760.00	H	---	-13.00	---
15480.00	H	---	-13.00	---
17200.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :1732.5 MHz Engineer :Marcus  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13540.00	S	-19.9	-13.00	6.90
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :1745MHz Engineer :Marcus  
 Operation Mode :TX High

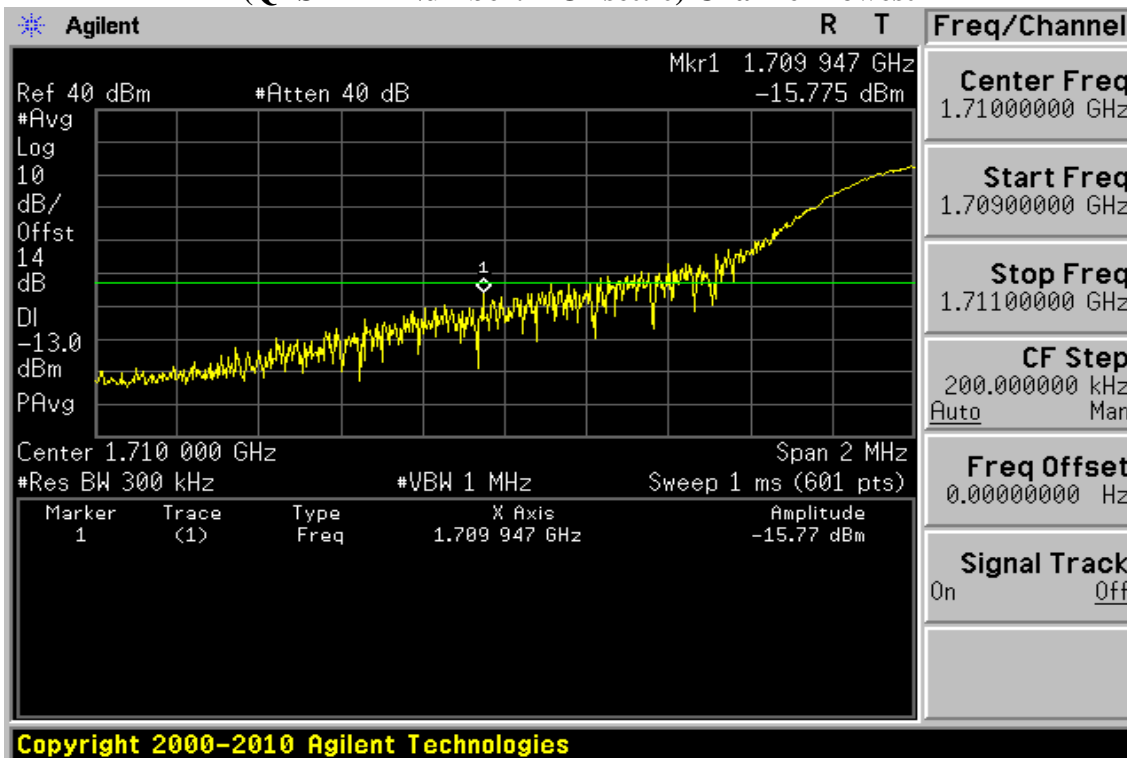
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3490.00	H	---	-13.00	---
5235.00	H	---	-13.00	---
6980.00	H	---	-13.00	---
8725.00	H	---	-13.00	---
10470.00	H	---	-13.00	---
12215.00	H	---	-13.00	---
13960.00	H	---	-13.00	---
14560.00	S	-20.19	-13.00	7.19
15705.00	H	---	-13.00	---
17450.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “-” : denotes Spurious Freque

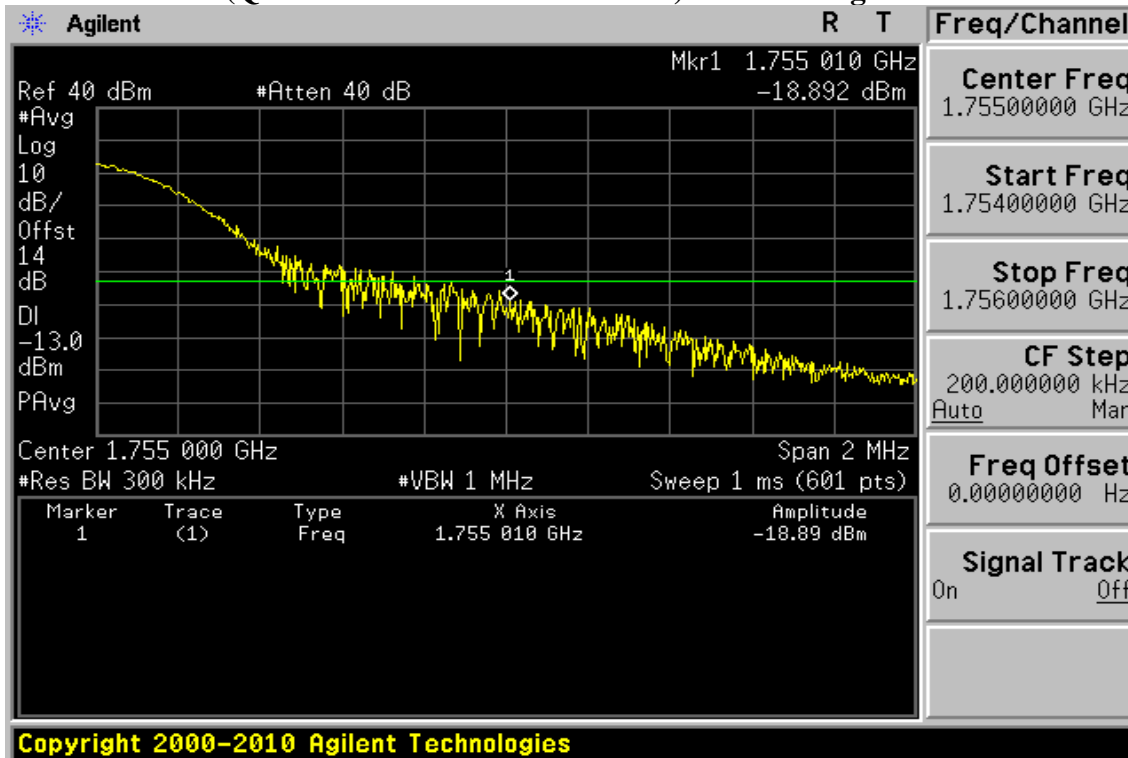
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**Figure 9-156: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-157: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Highest**



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**Band edge emission at antenna terminals –20MHz BW LTE-Band 4**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99)**

Test Mode 20MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.947	-15.77	-13.00	2.77
1755.010	-18.89	-13.00	5.89

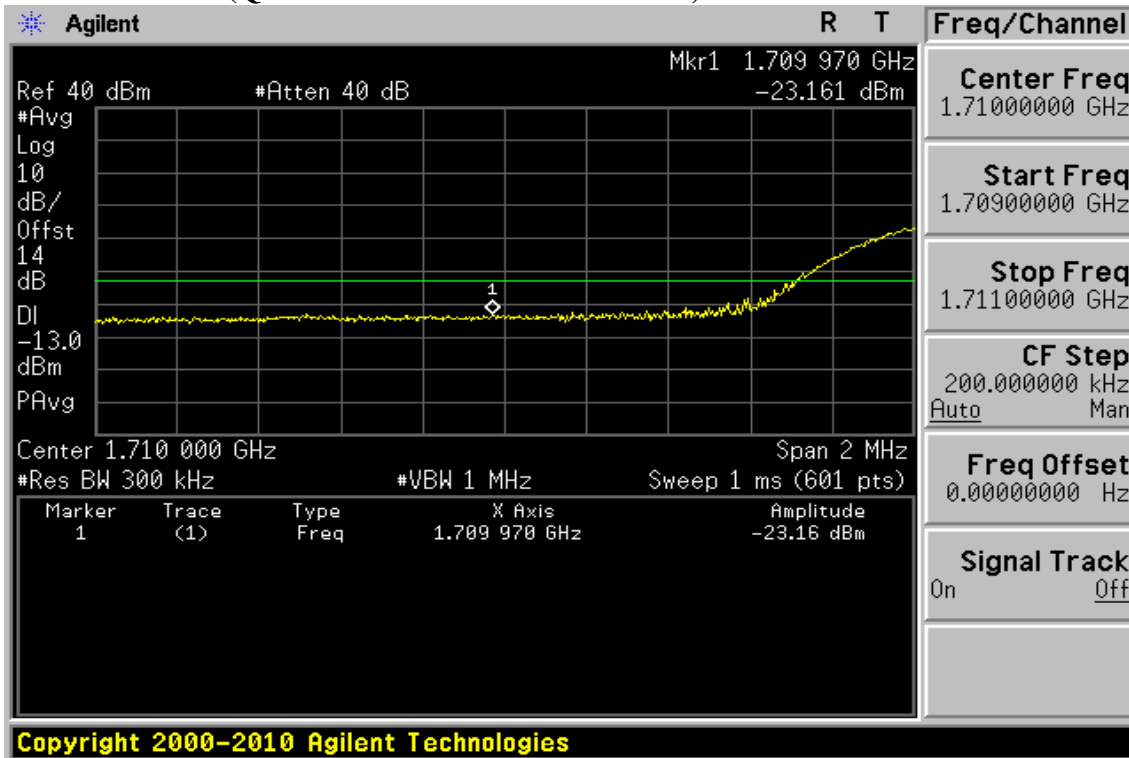
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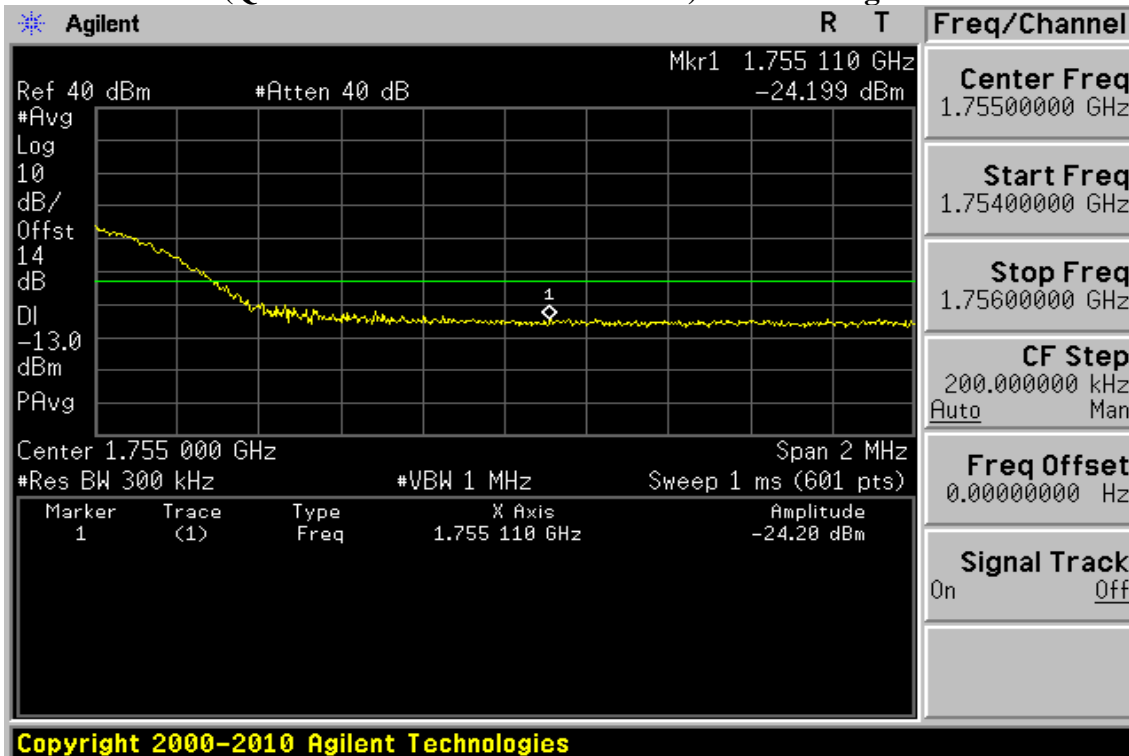
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**Figure 9-158: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Figure 9-159: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –20MHz BW LTE-Band 4**

**(QPSK RB Number: 100 Offset: 0)**

Test Mode                      20MHz BW LTE-Band 4      Engineer    :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.970	-23.16	-13.00	10.16
1755.110	-24.2	-13.00	11.20

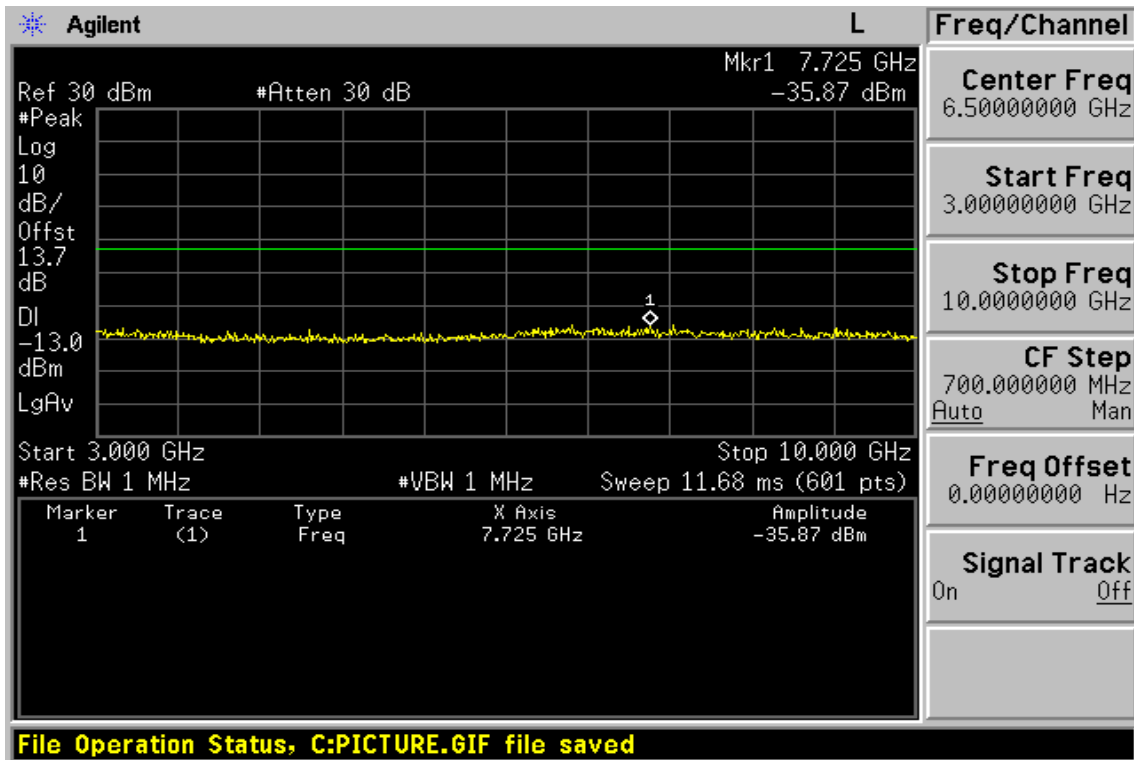
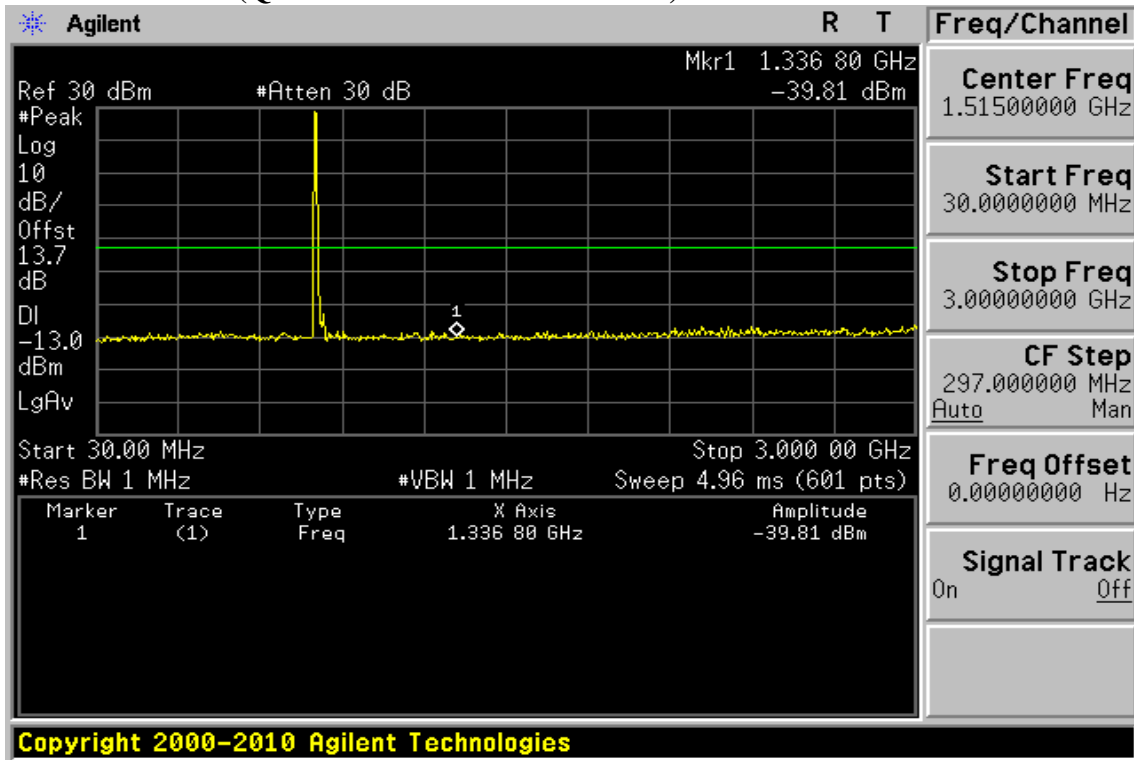
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**Figure 9-160: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

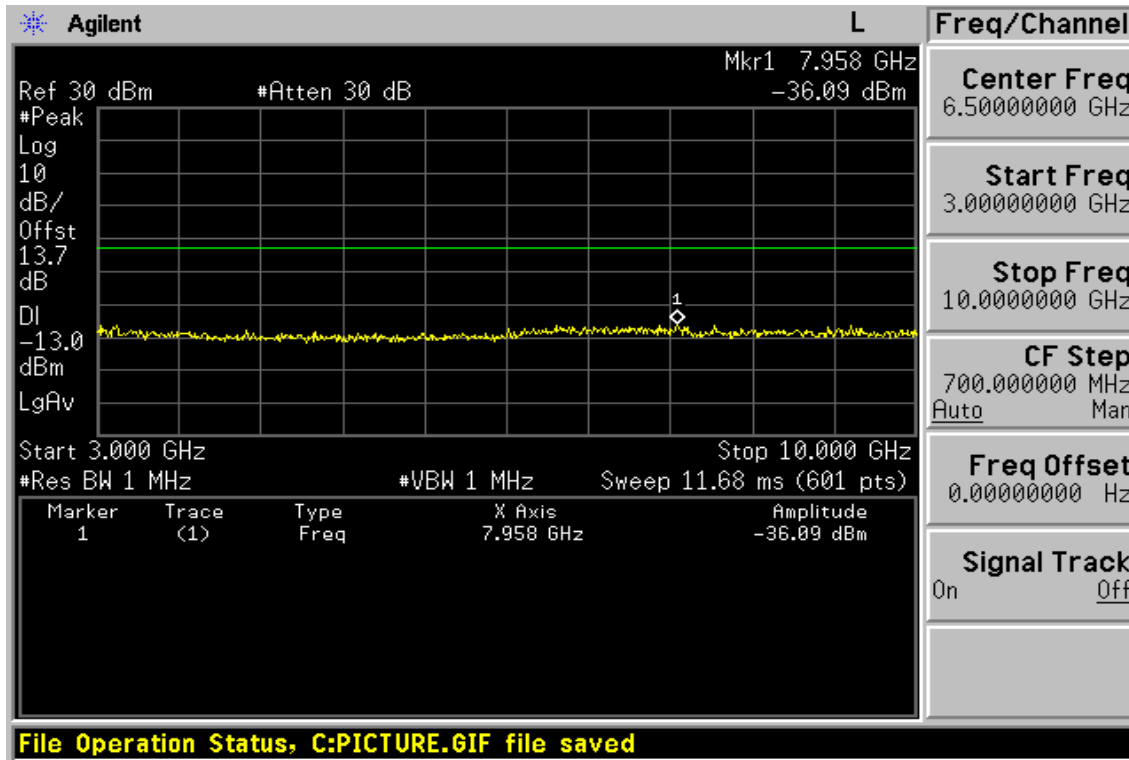
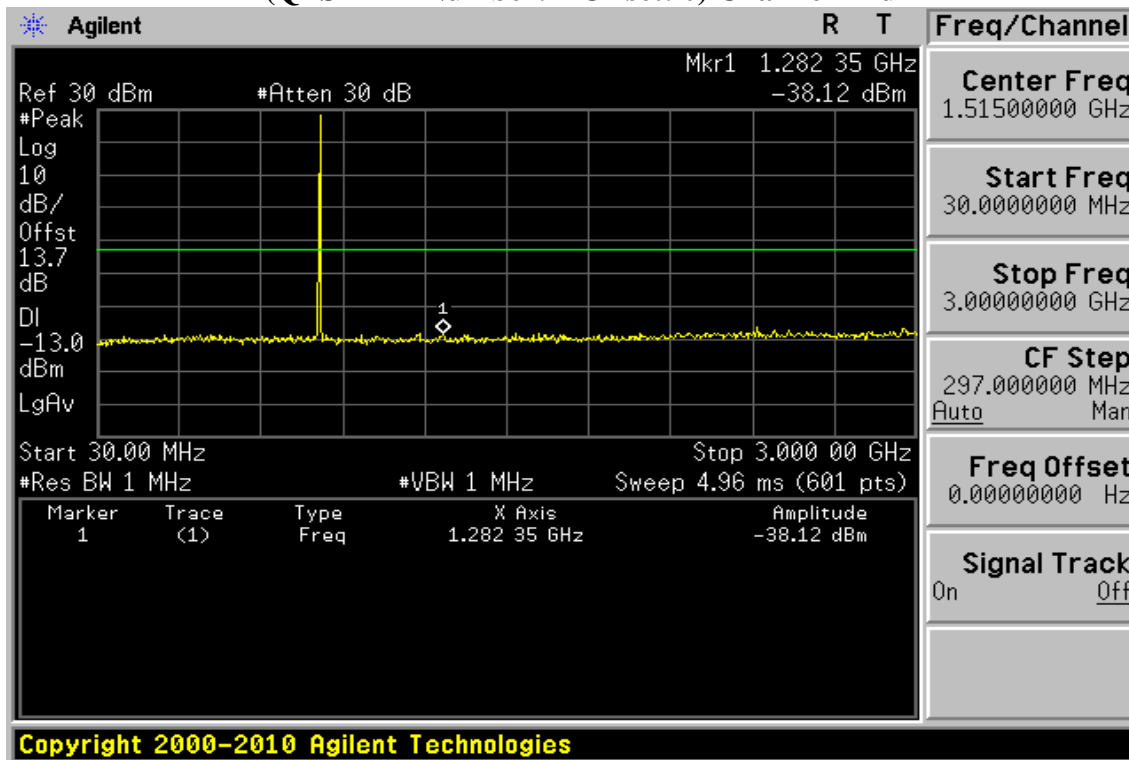


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**Figure 9-161: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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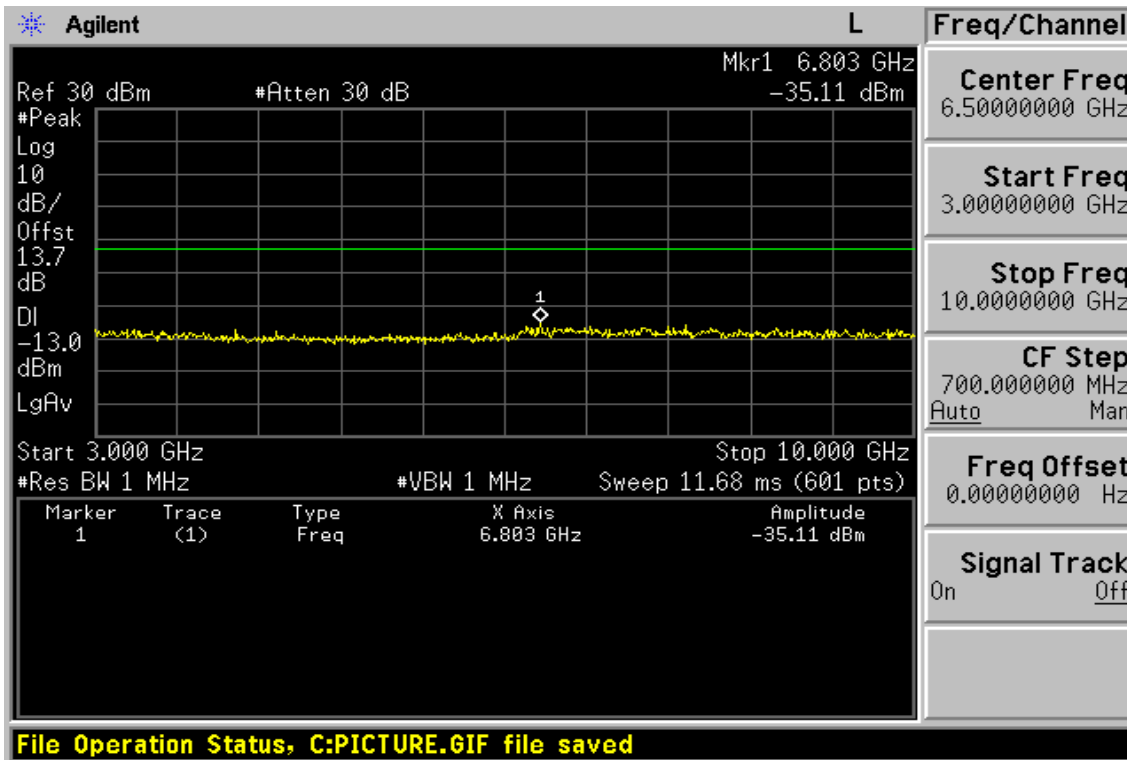
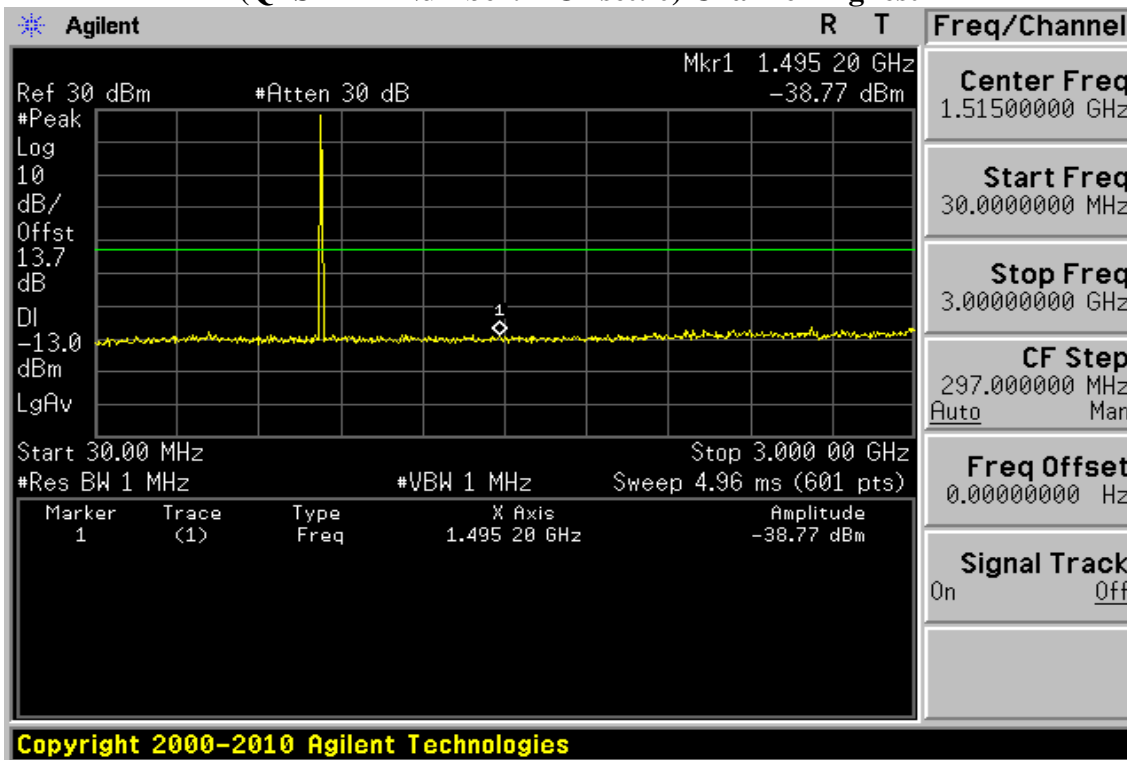
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**Figure 9-162: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :824.7 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1649.40	H	---	-13.00	---
2474.10	H	---	-13.00	---
3298.80	H	---	-13.00	---
4123.50	H	---	-13.00	---
4948.20	H	---	-13.00	---
5772.90	H	---	-13.00	---
6597.60	H	---	-13.00	---
7422.30	H	---	-13.00	---
7725.00	S	-35.87	-13.00	22.87
8247.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.00	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7528.50	H	---	-13.00	---
7958.00	S	-36.09	-13.00	23.09
8365.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :848.3 MHz Engineer :Nick  
 Operation Mode :TX High

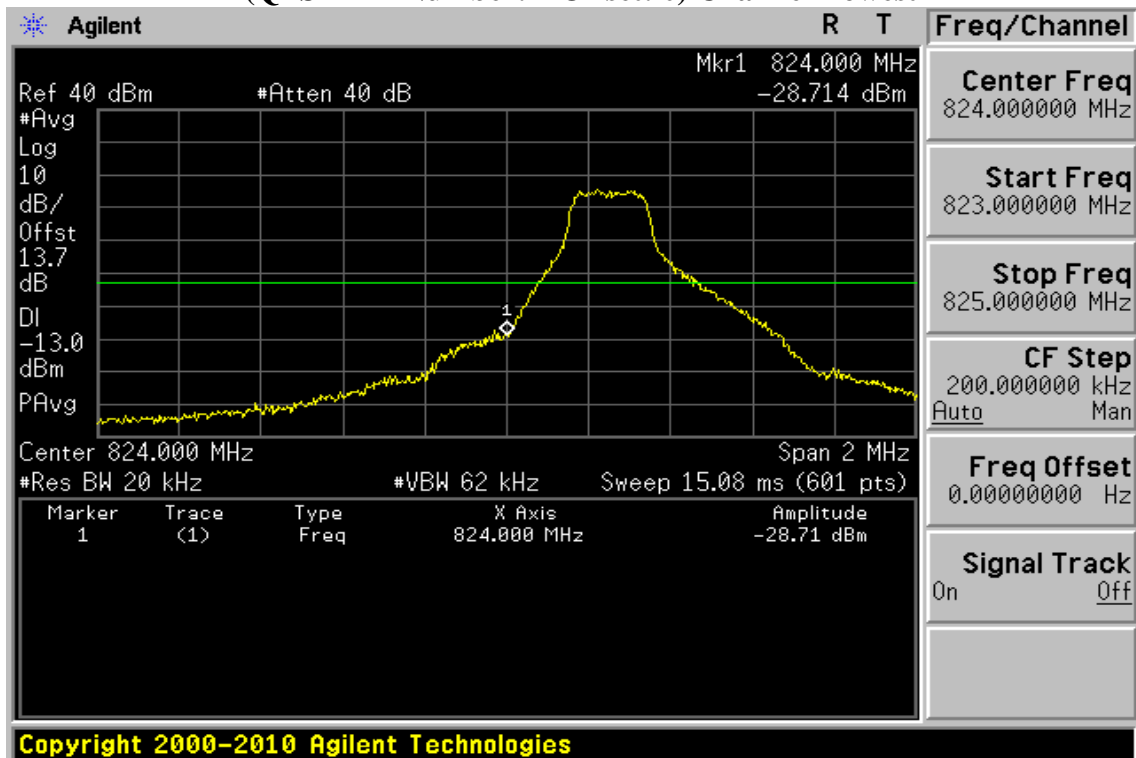
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1696.60	H	---	-13.00	---
2544.90	H	---	-13.00	---
3393.20	H	---	-13.00	---
4241.50	H	---	-13.00	---
5089.80	H	---	-13.00	---
5938.10	H	---	-13.00	---
6786.40	H	---	-13.00	---
6803.00	S	-35.11	-13.00	22.11
7634.70	H	---	-13.00	---
8483.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

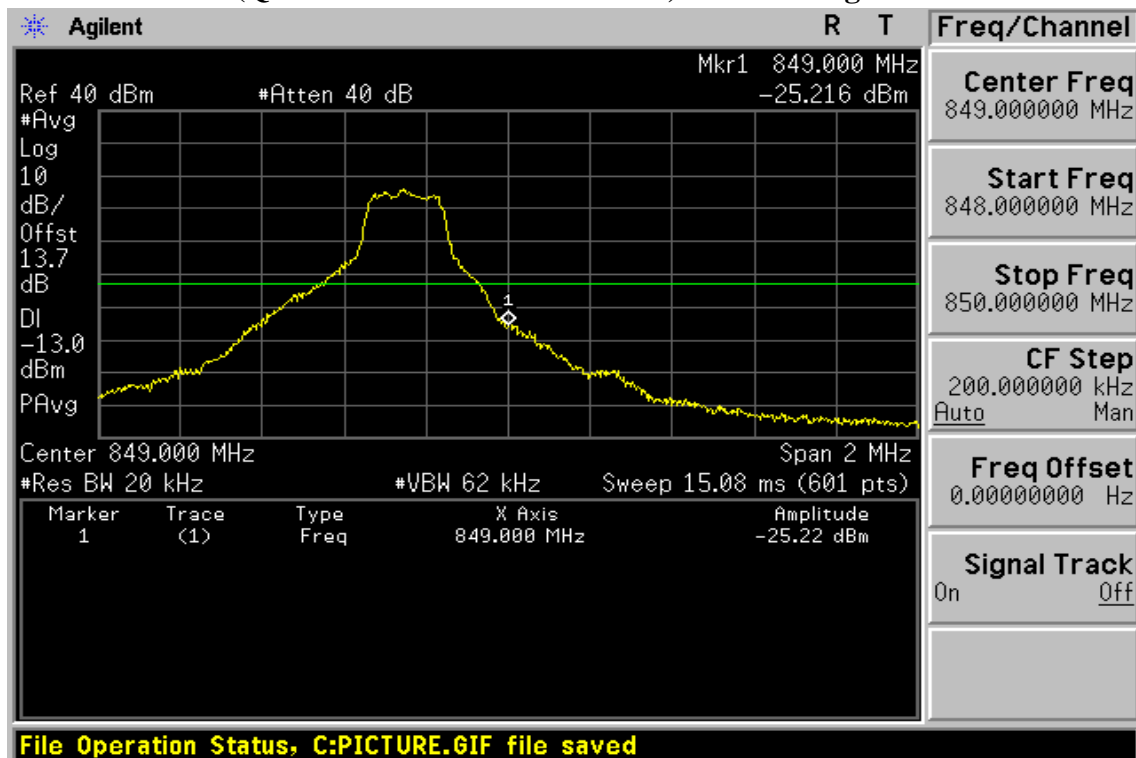
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**Figure 9-163: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-164: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5)**

Test Mode 1.4MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-28.71	-13.00	15.71
849.000	-25.22	-13.00	12.22

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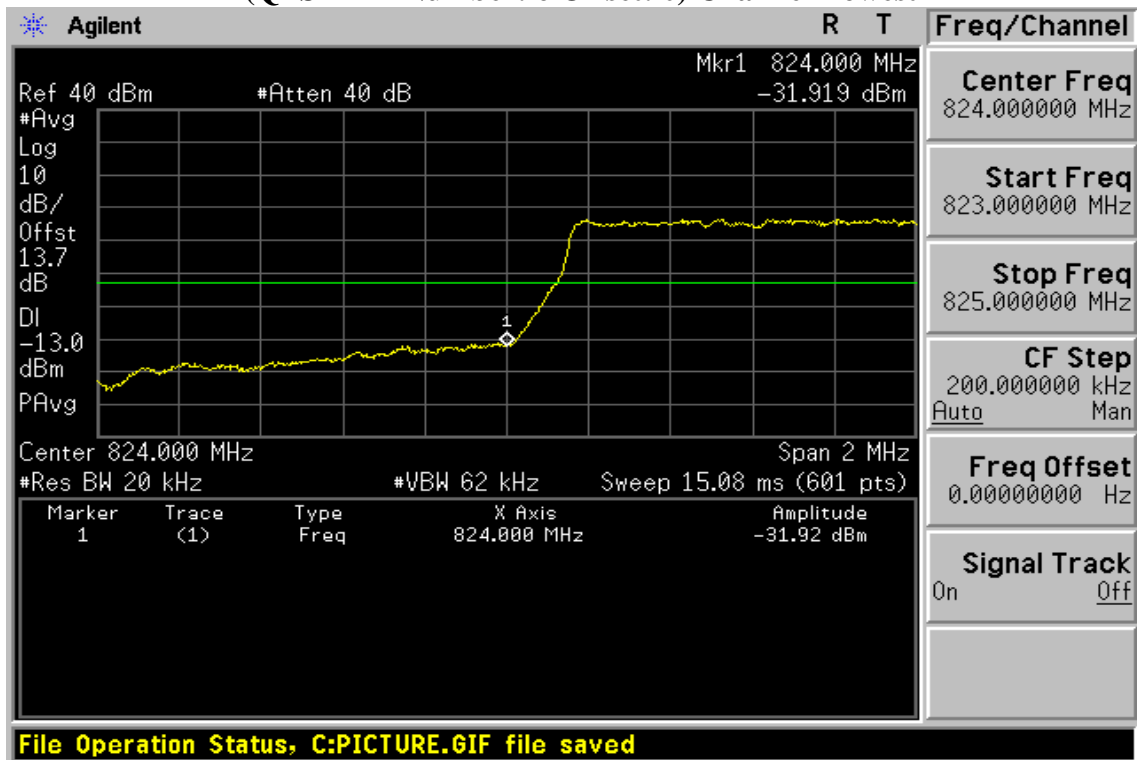
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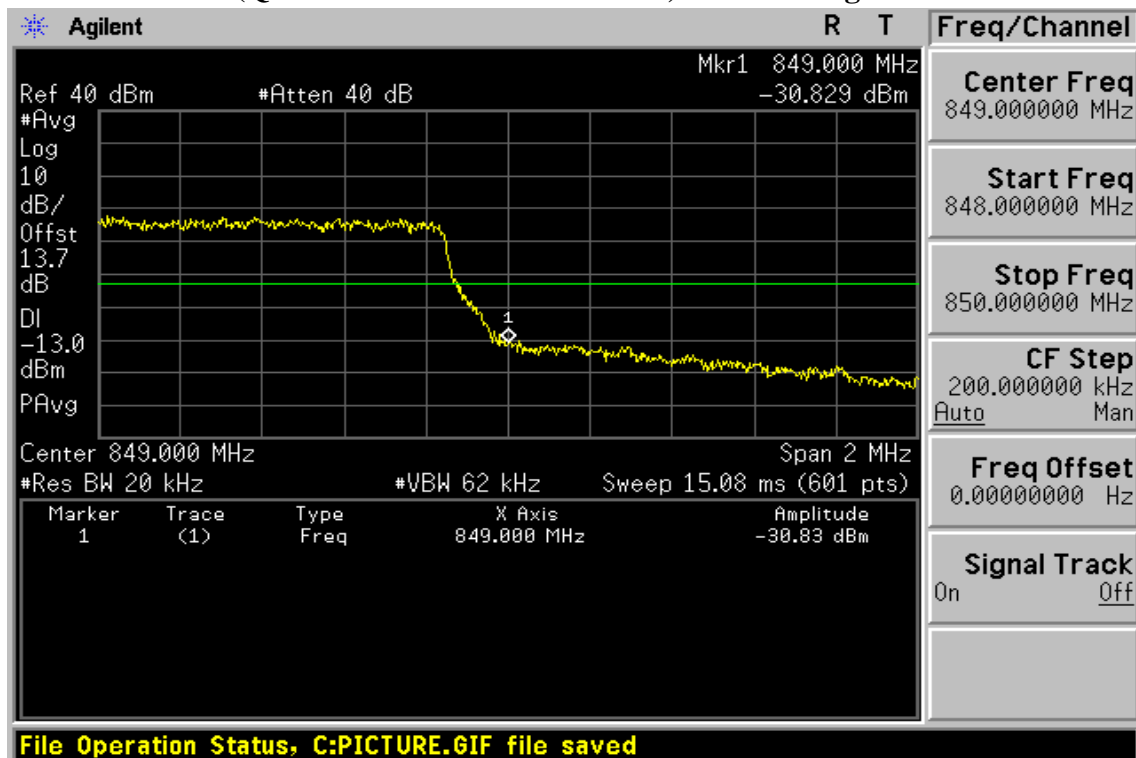
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**Figure 9-165: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Figure 9-166: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5**

**(QPSK RB Number: 6 Offset: 0)**

Test Mode 1.4MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-31.92	-13.00	18.92
849.000	-30.83	-13.00	17.83

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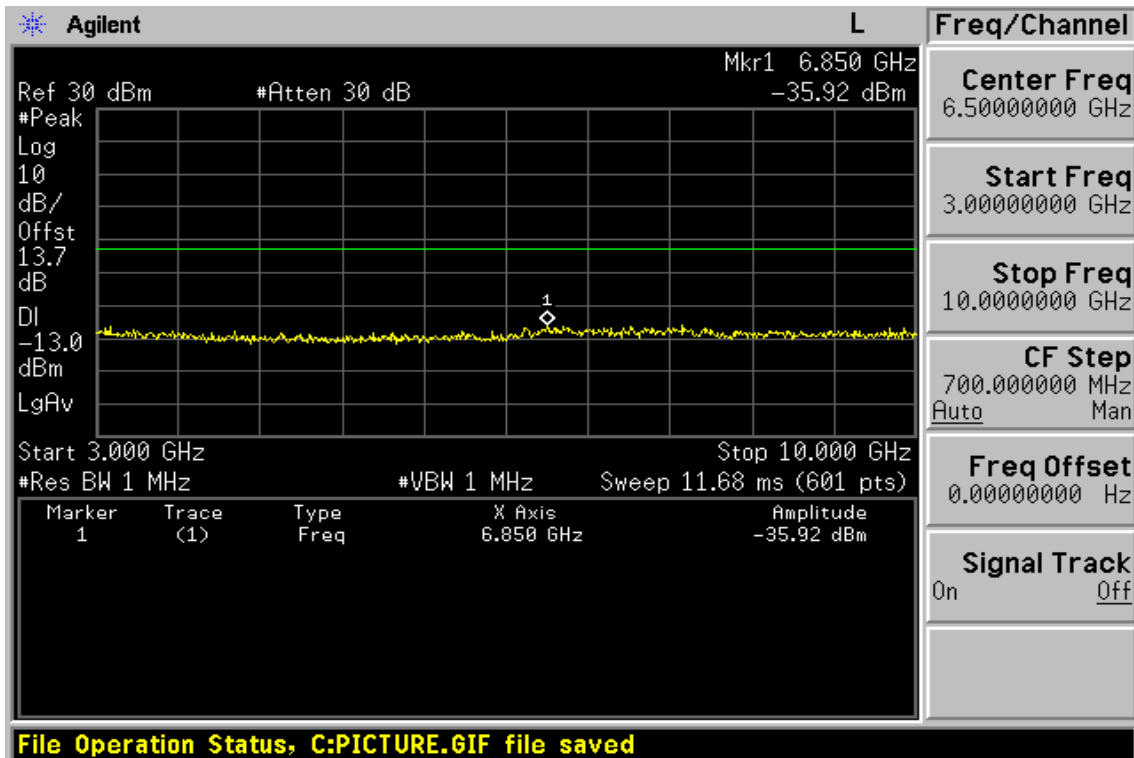
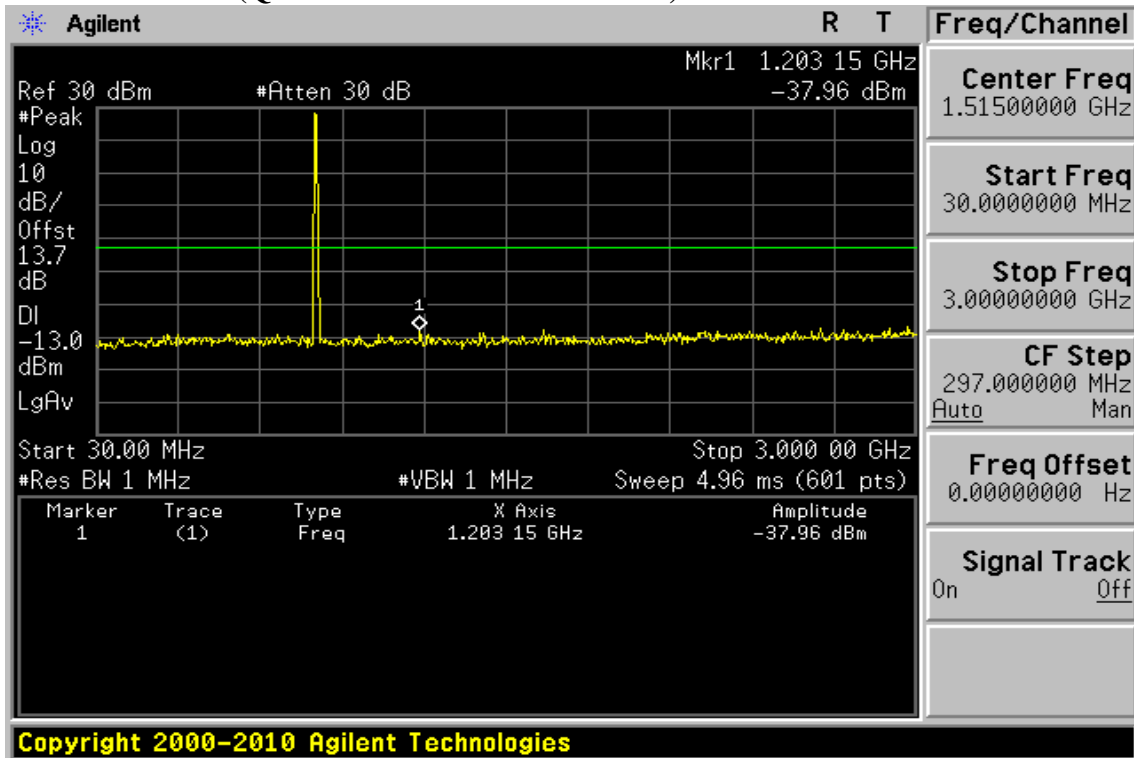
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**Figure 9-167: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

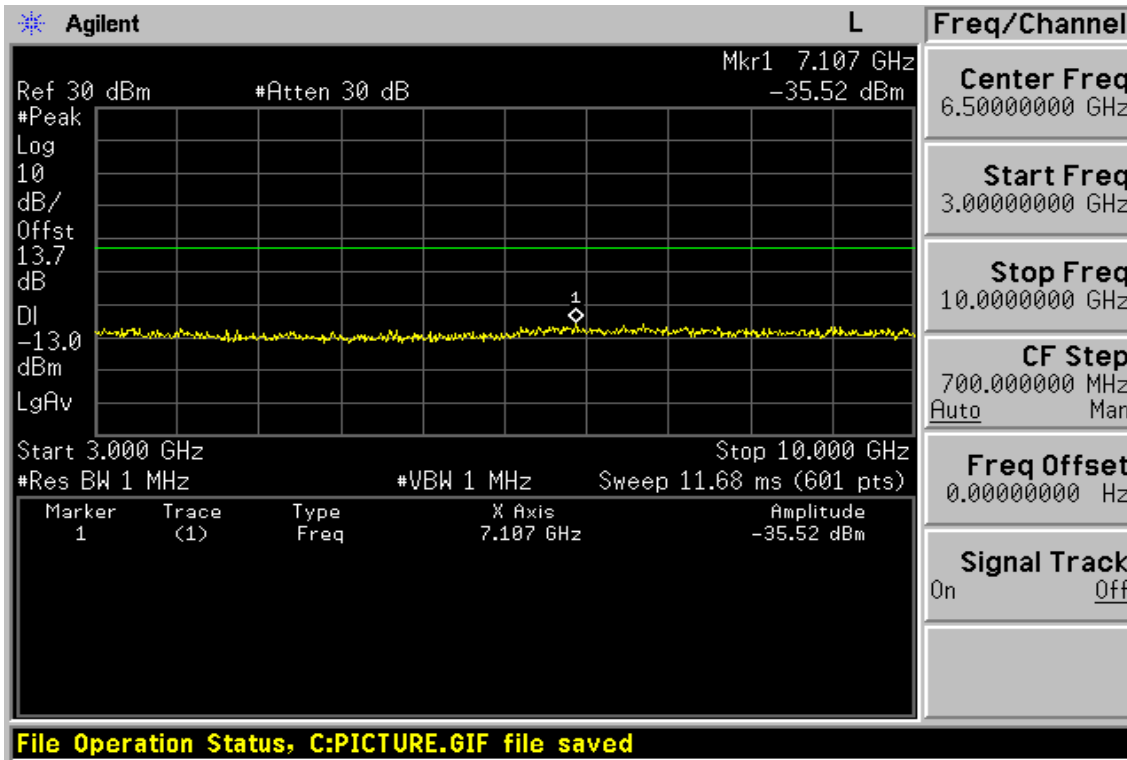
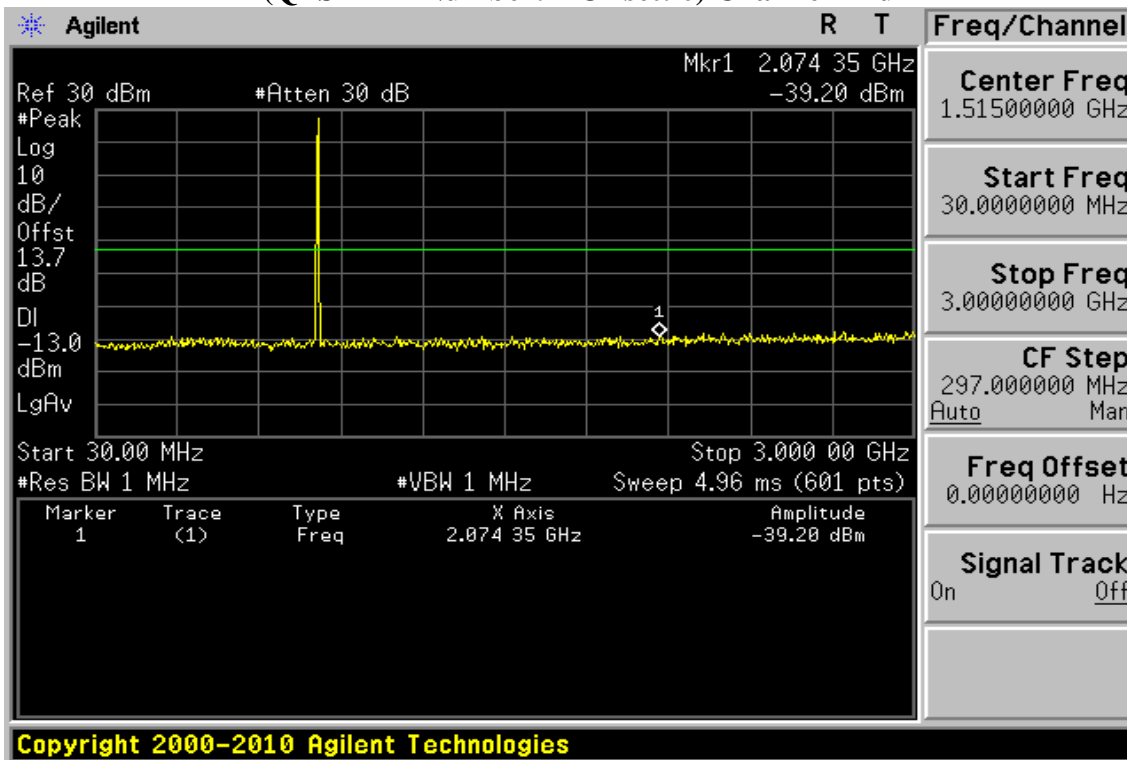


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**Figure 9-168: Out of Band emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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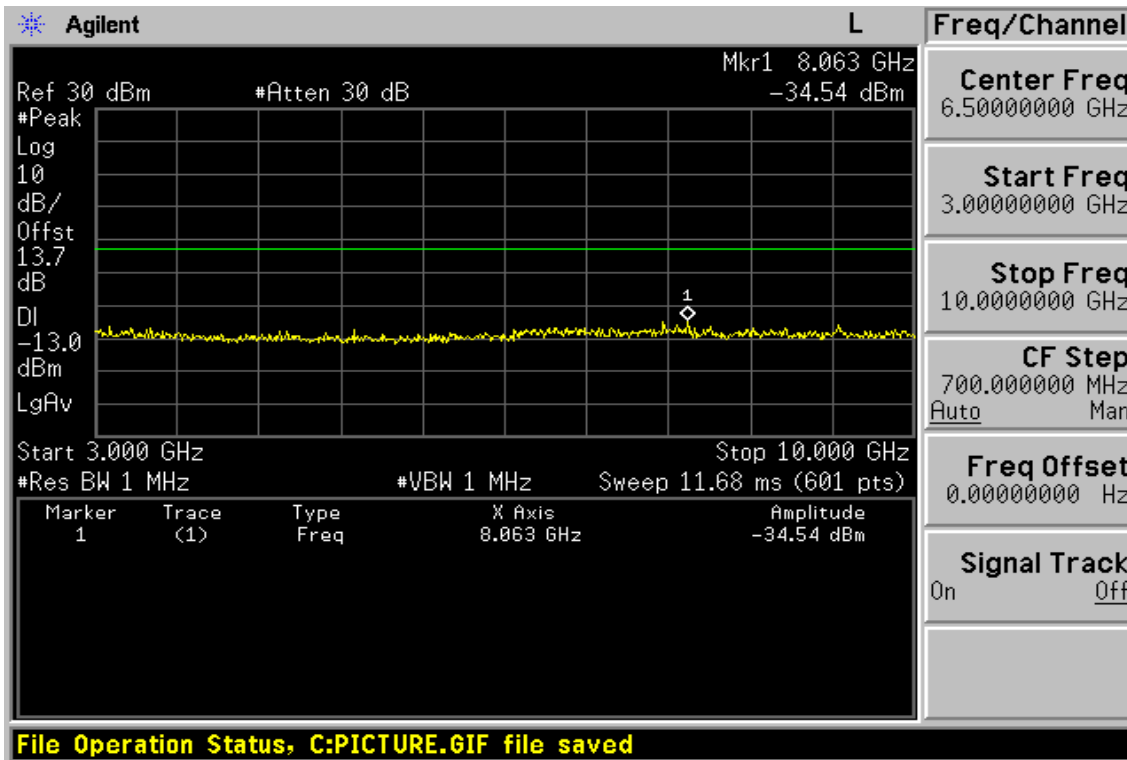
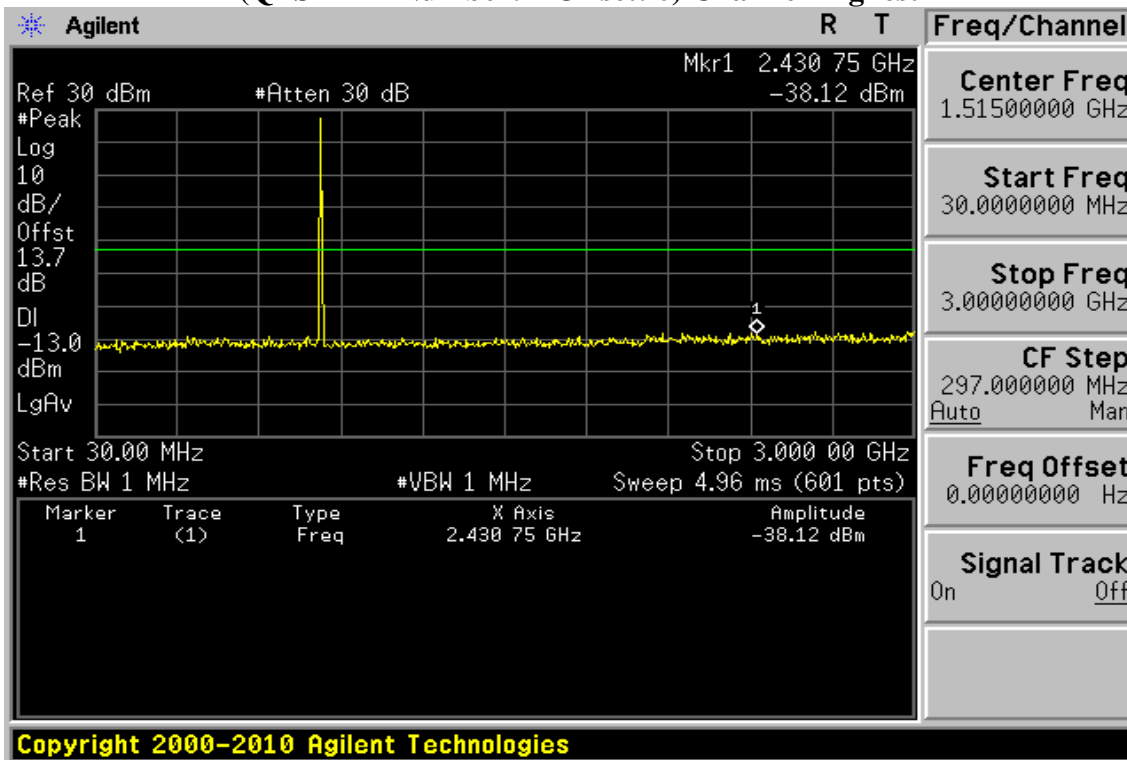
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**Figure 9-169: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –3MHz BW LTE-Band 5**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :825.5 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1651.00	H	---	-13.00	---
2476.50	H	---	-13.00	---
3302.00	H	---	-13.00	---
4127.50	H	---	-13.00	---
4953.00	H	---	-13.00	---
5778.50	H	---	-13.00	---
6604.00	H	---	-13.00	---
6850.00	S	-35.92	-13.00	22.92
7429.50	H	---	-13.00	---
8255.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.00	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7107.00	S	-35.52	-13.00	22.52
7528.50	H	---	-13.00	---
8365.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :825.3 MHz Engineer :Nick  
 Operation Mode :TX High

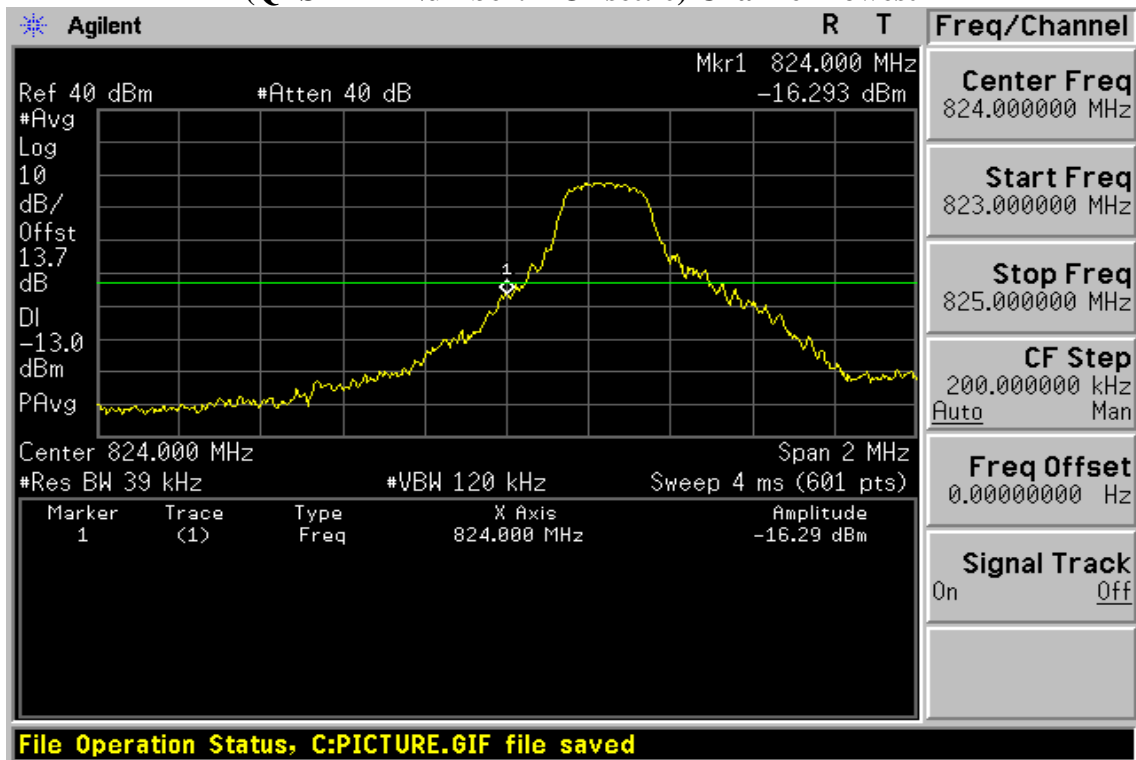
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1650.60	H	---	-13.00	---
2475.90	H	---	-13.00	---
3301.20	H	---	-13.00	---
4126.50	H	---	-13.00	---
4951.80	H	---	-13.00	---
5777.10	H	---	-13.00	---
6602.40	H	---	-13.00	---
7427.70	H	---	-13.00	---
8063.00	S	-34.54	-13.00	21.54
8253.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

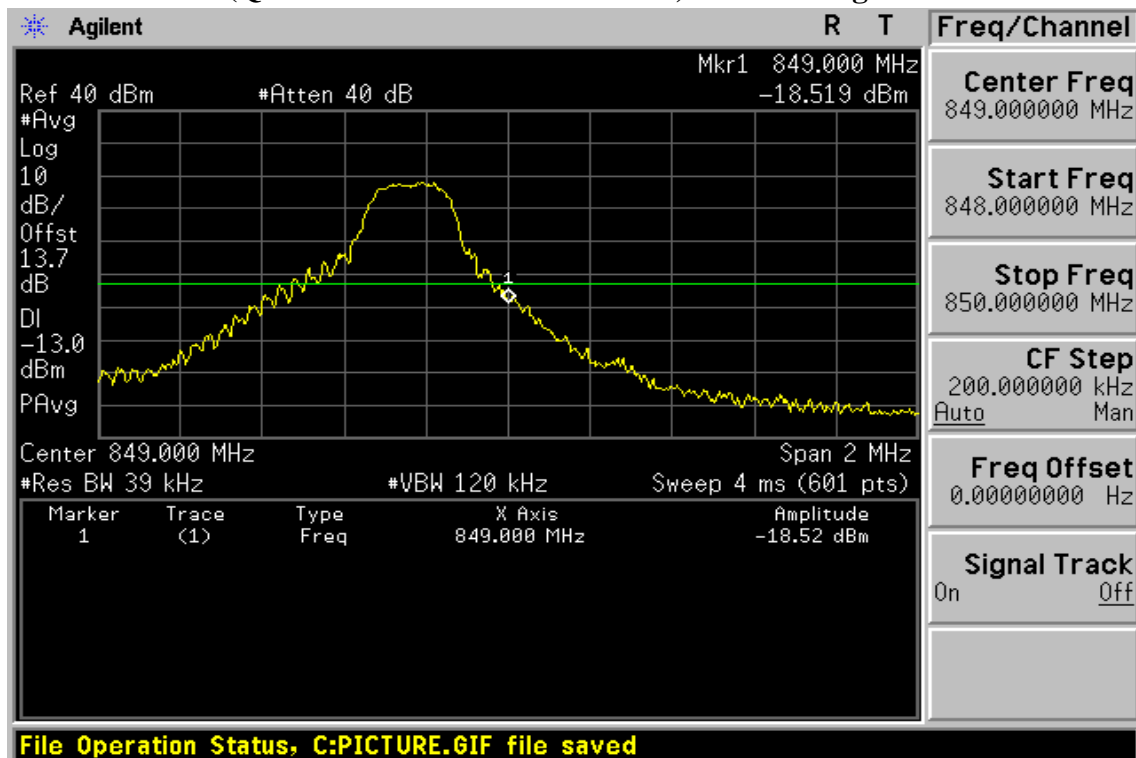
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**Figure 9-170: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-171: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14)**

Test Mode                      3MHz BW LTE-Band 5                      Engineer                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-16.29	-13.00	3.29
849.000	-18.52	-13.00	5.52

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

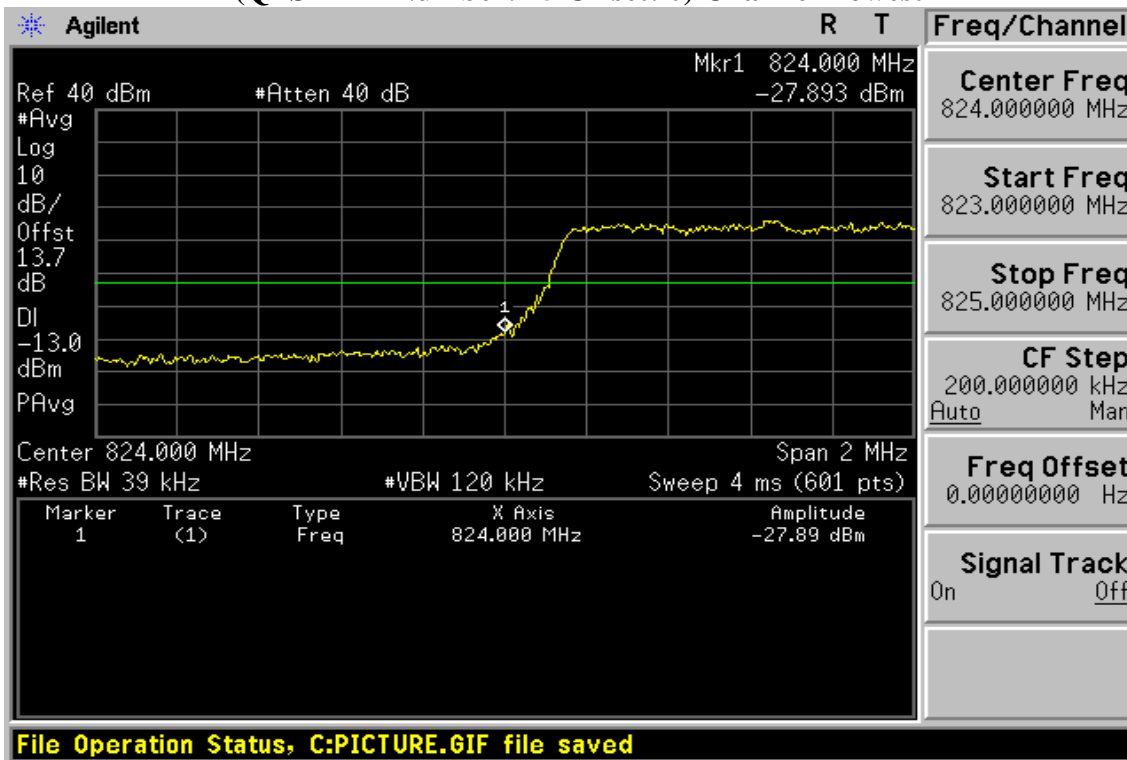
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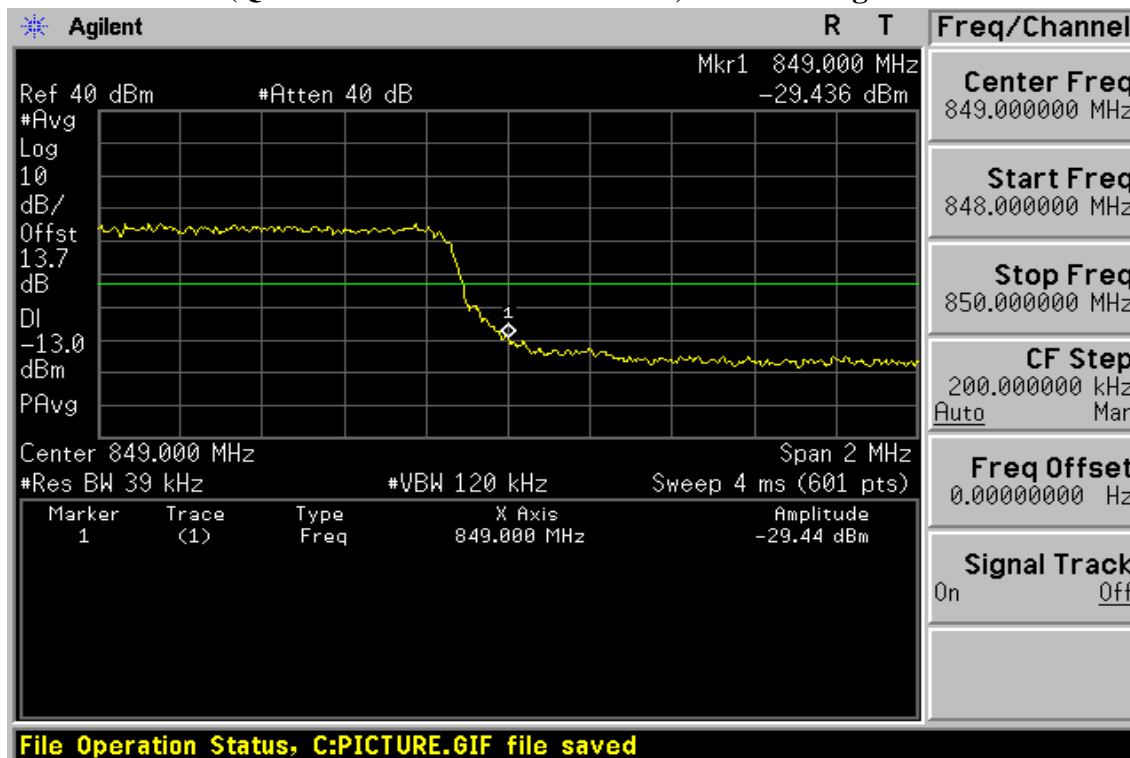
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**Figure 9-172: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Figure 9-173: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5**

**(QPSK RB Number: 15 Offset: 0)**

Test Mode                      3MHz BW LTE-Band 5                      Engineer                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-27.89	-13.00	14.89
849.000	-29.44	-13.00	16.44

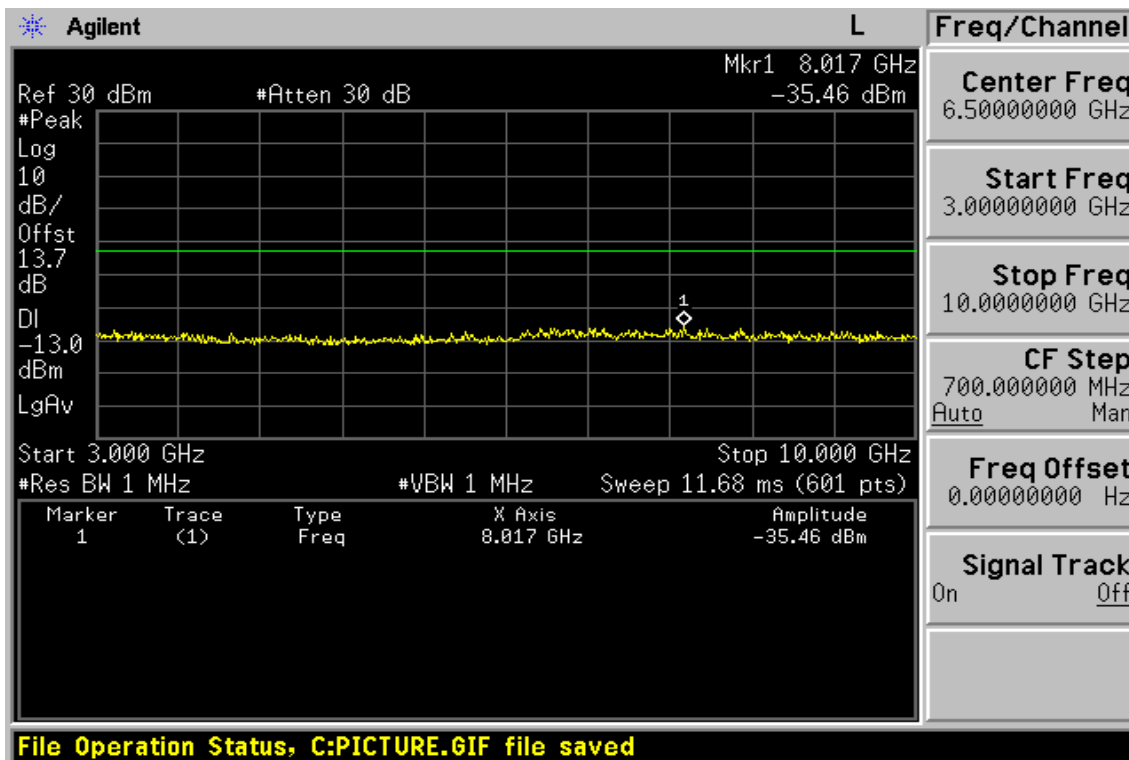
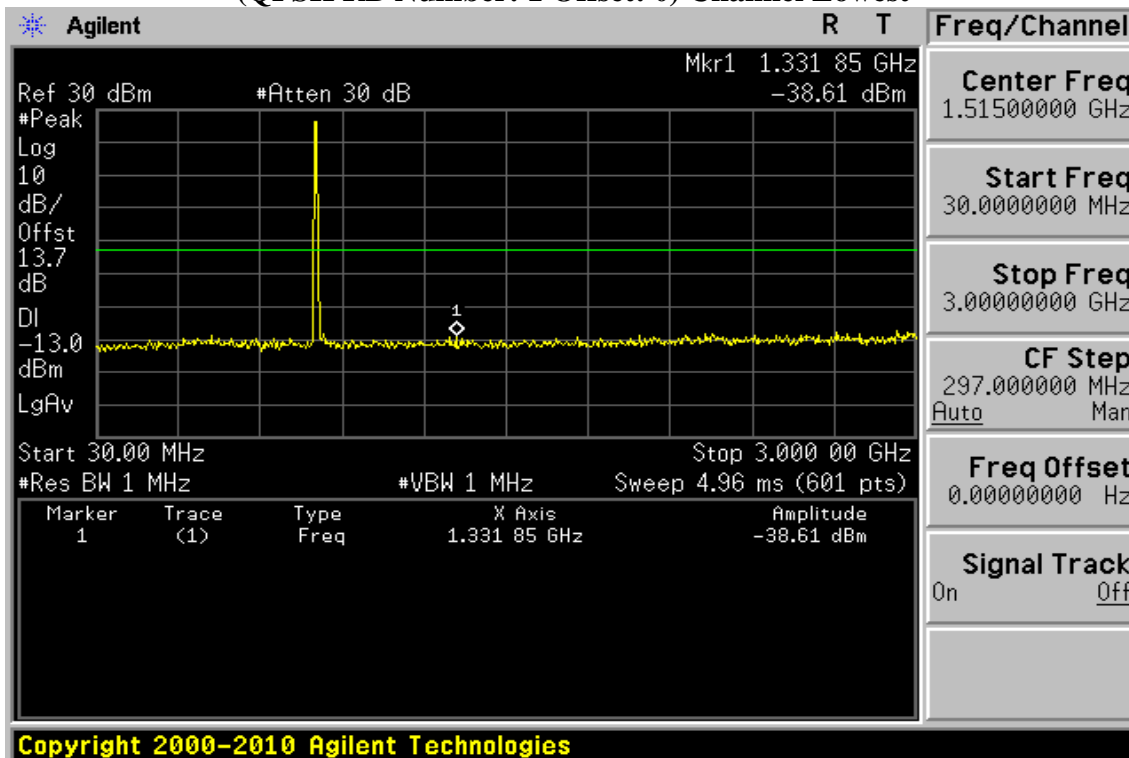
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**Figure 9-174: Out of Band emission at antenna terminals–5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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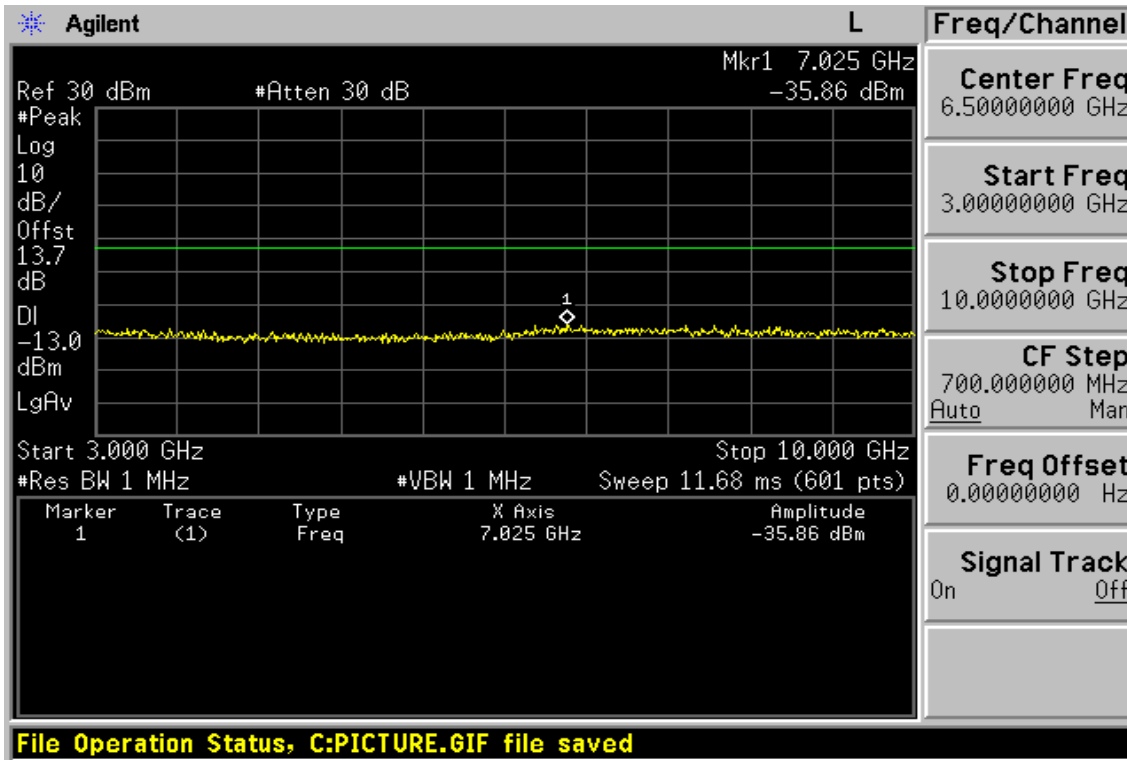
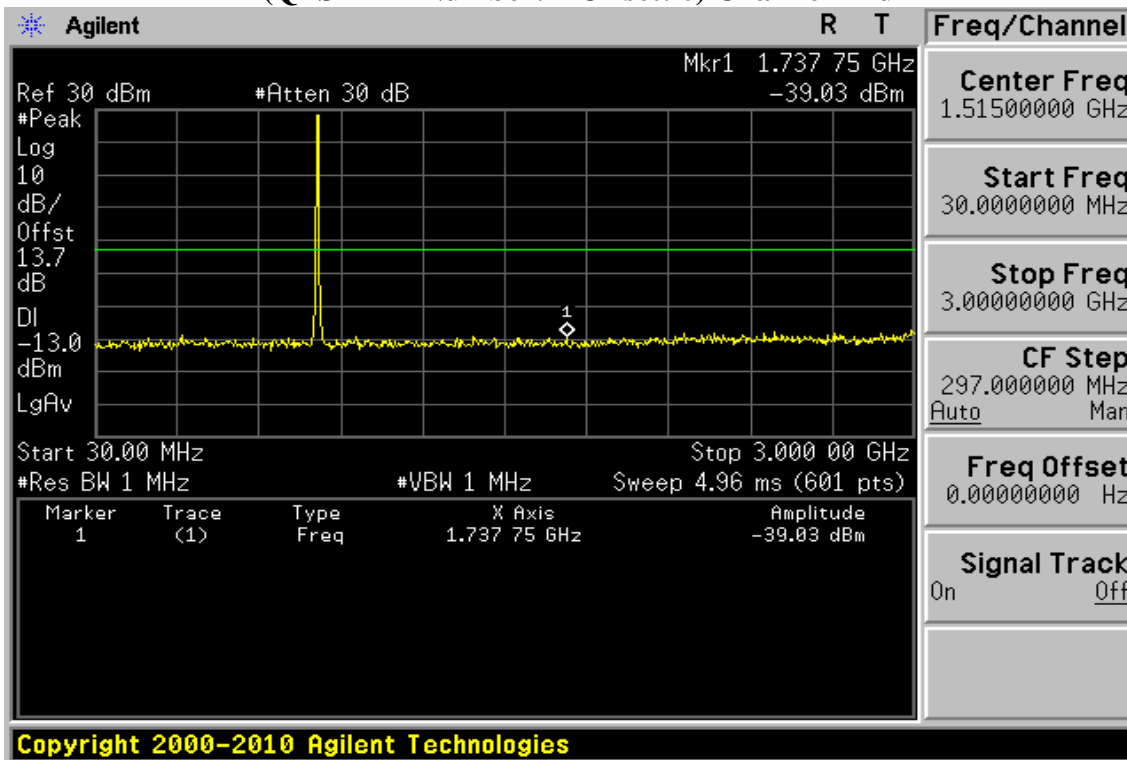
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**Figure 9-175: Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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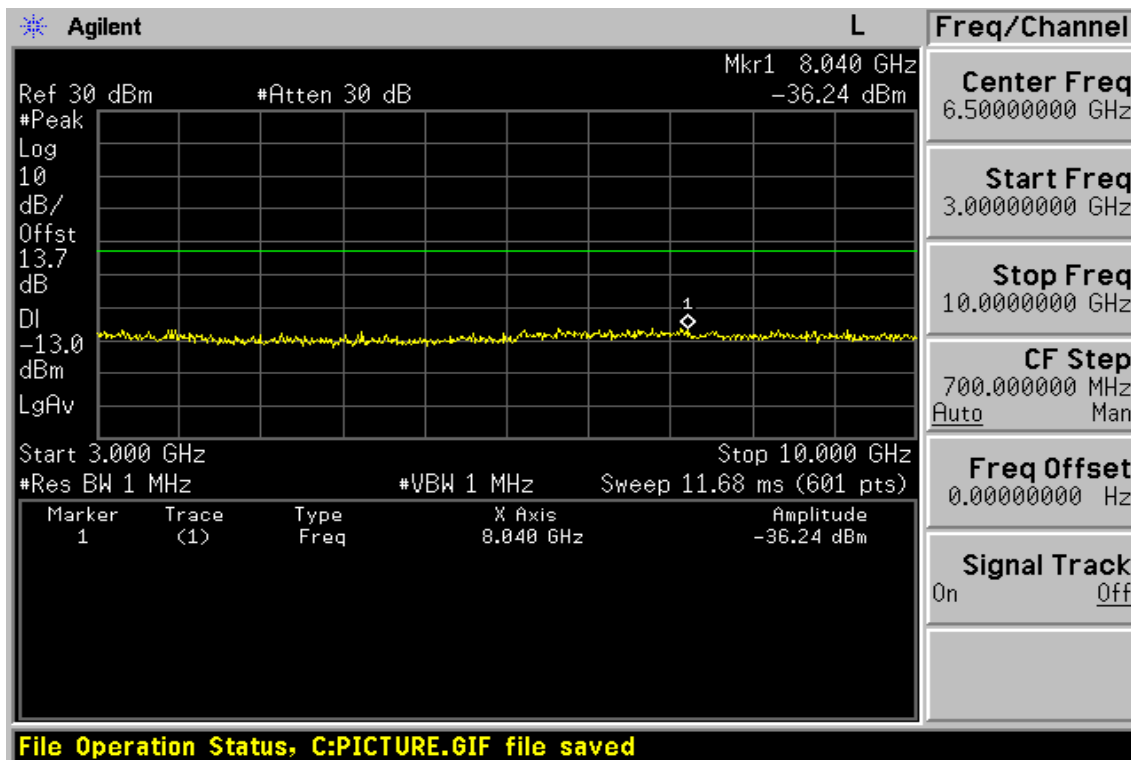
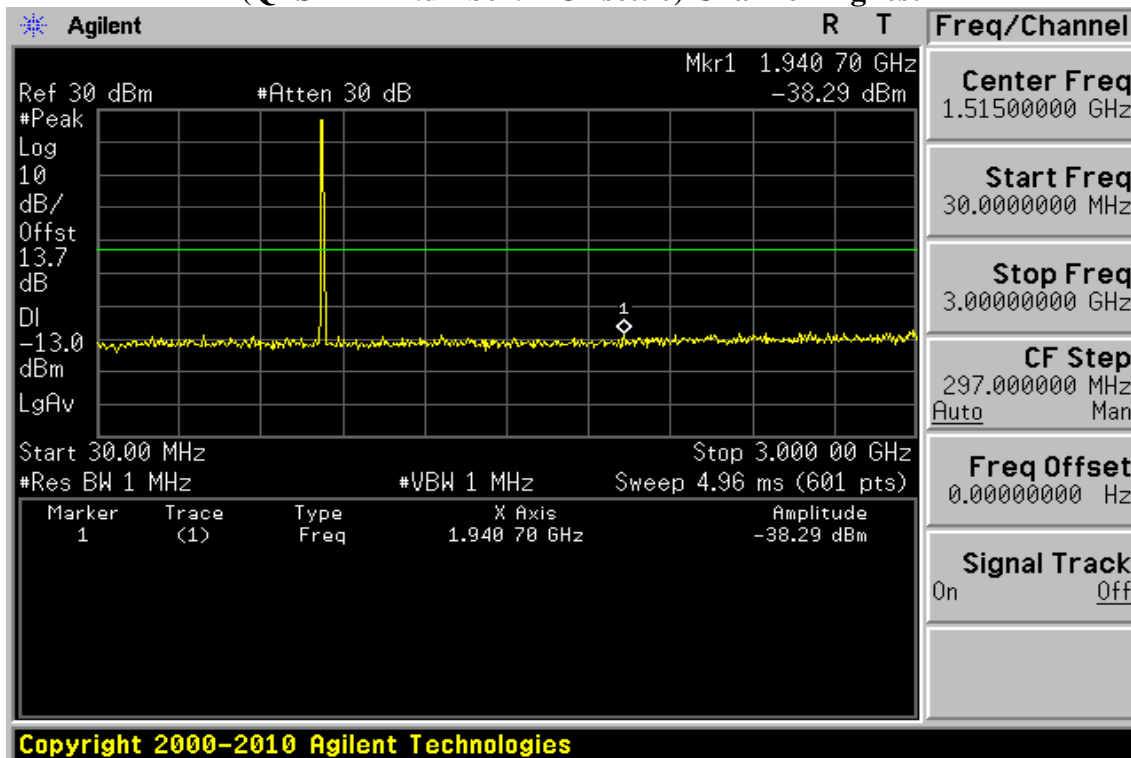
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**Figure 9-176: Out of Band emission at antenna terminals–5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 5**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :826.5 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1653.00	H	---	-13.00	---
2479.50	H	---	-13.00	---
3306.00	H	---	-13.00	---
4132.50	H	---	-13.00	---
4959.00	H	---	-13.00	---
5785.50	H	---	-13.00	---
6612.00	H	---	-13.00	---
7438.50	H	---	-13.00	---
8017.00	S	-35.46	-13.00	22.46
8265.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.00	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7025.00	S	-35.86	-13.00	22.86
7528.50	H	---	-13.00	---
8365.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :846.5 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.00	H	---	-13.00	---
2539.50	H	---	-13.00	---
3386.00	H	---	-13.00	---
4232.50	H	---	-13.00	---
5079.00	H	---	-13.00	---
5925.50	H	---	-13.00	---
6772.00	H	---	-13.00	---
7618.50	H	---	-13.00	---
8040.00	S	-36.24	-13.00	23.24
8465.00	H	---	-13.00	---

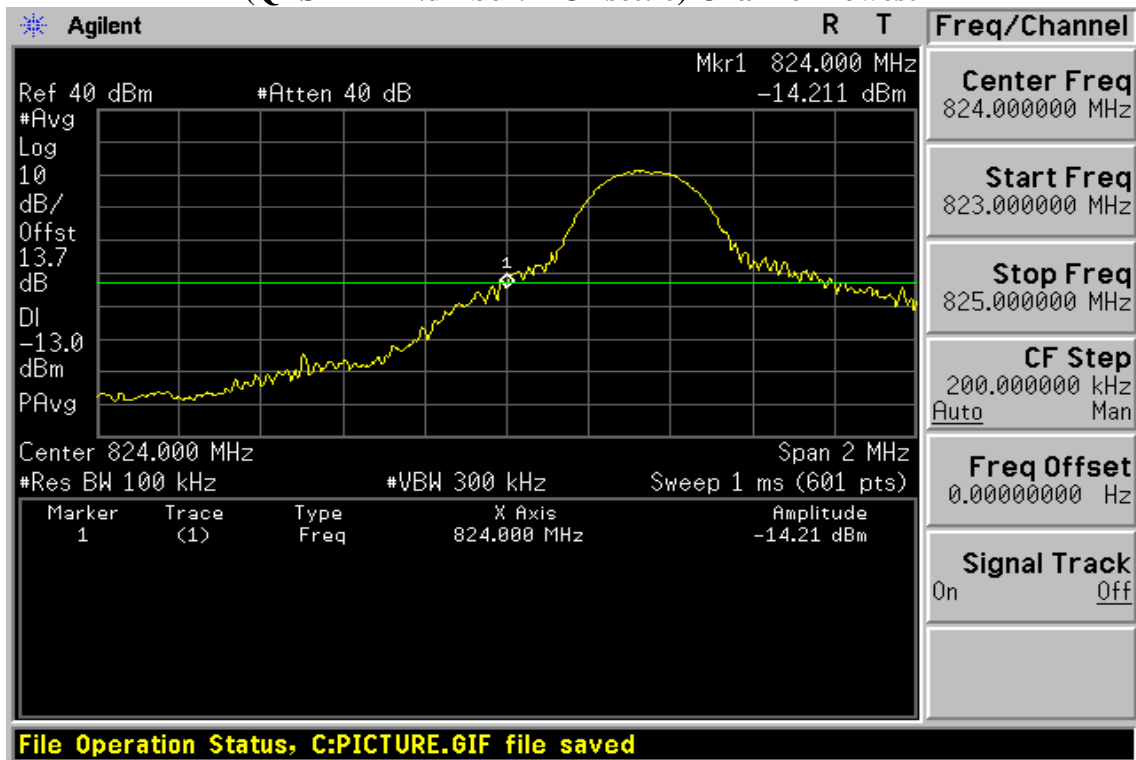
Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

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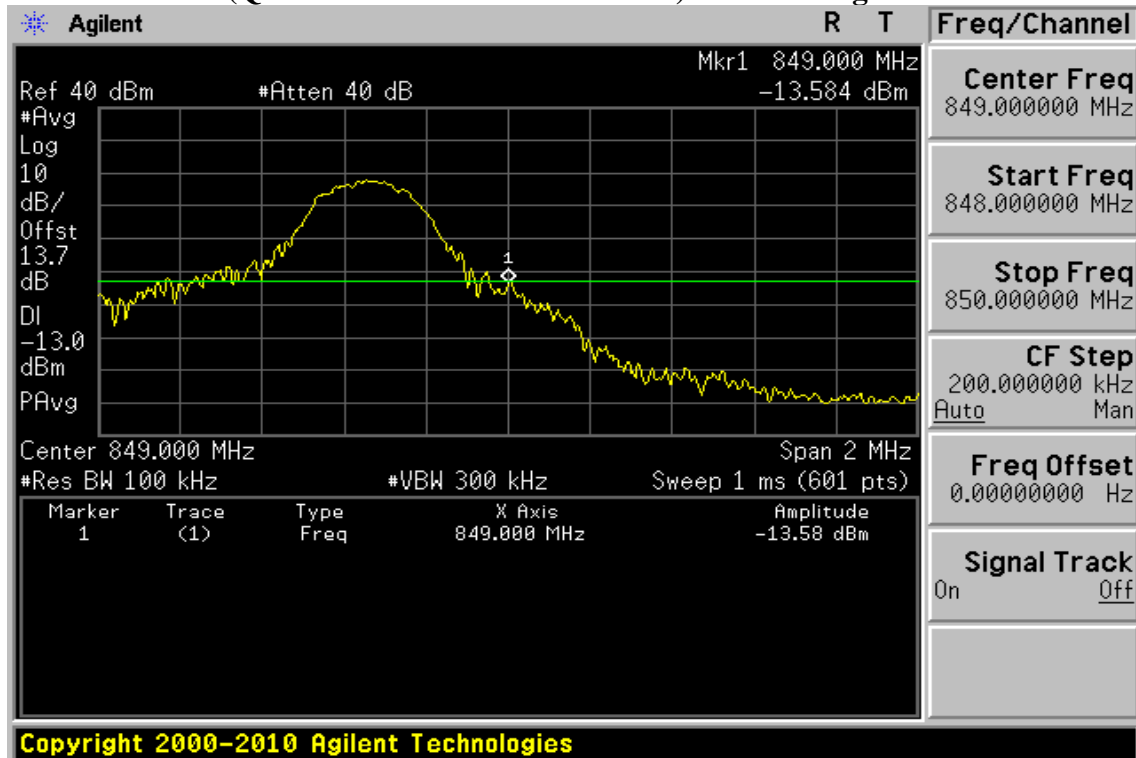
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**Figure 9-177: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-178: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)**

Test Mode                      5MHz BW LTE-Band 5                      Engineer                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-14.21	-13.00	1.21
849.000	-13.58	-13.00	0.58

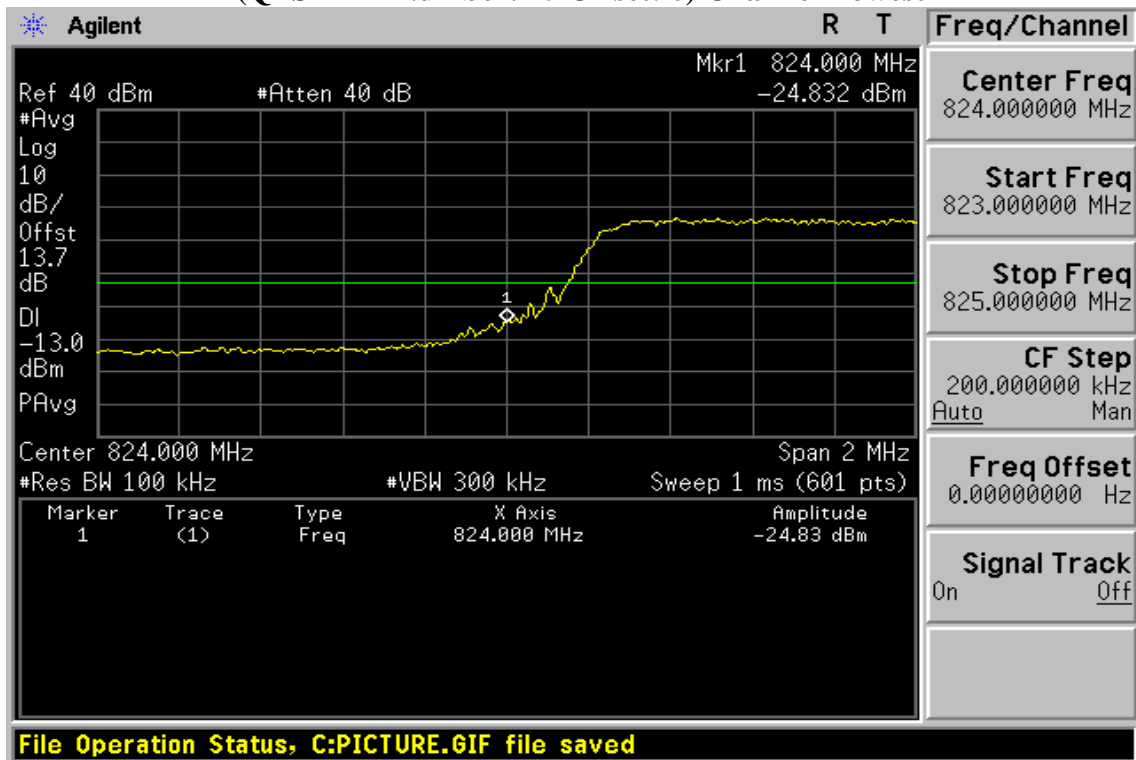
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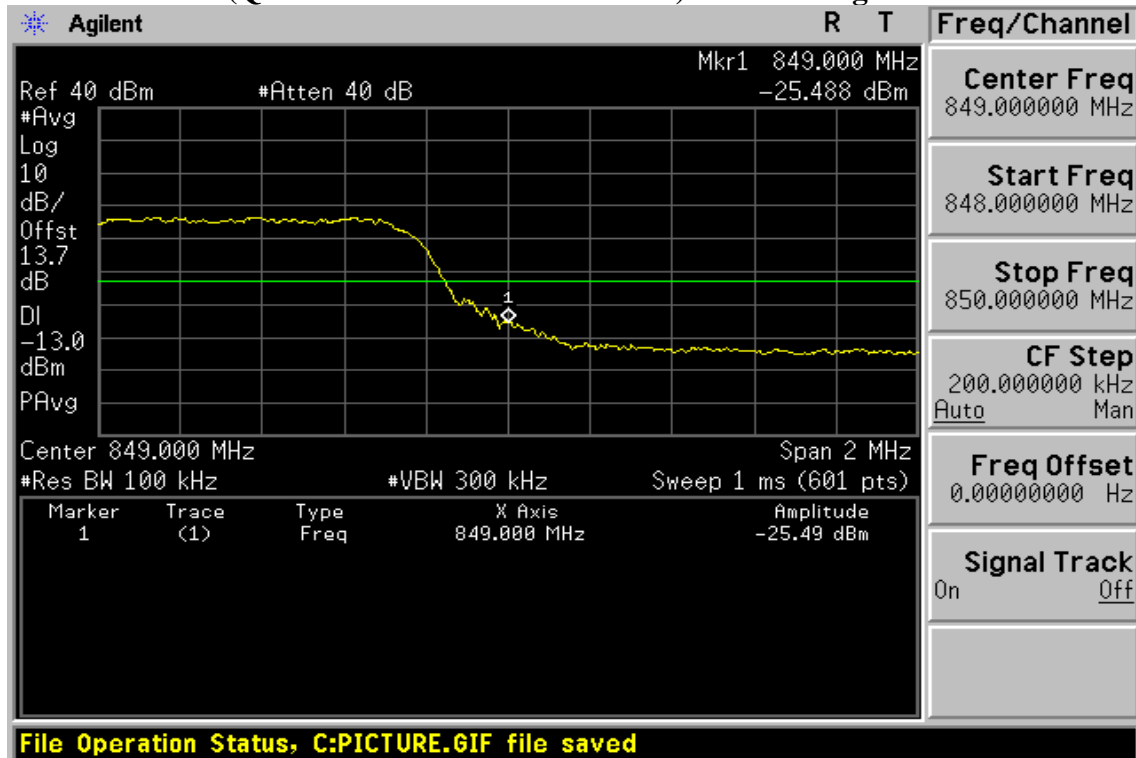
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**Figure 9-179: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-180: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5**

(QPSK RB Number: 25 Offset: 0)

Test Mode                      5MHz BW LTE-Band 5                      Engineer                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-24.03	-13.00	11.03
849.000	-25.49	-13.00	12.49

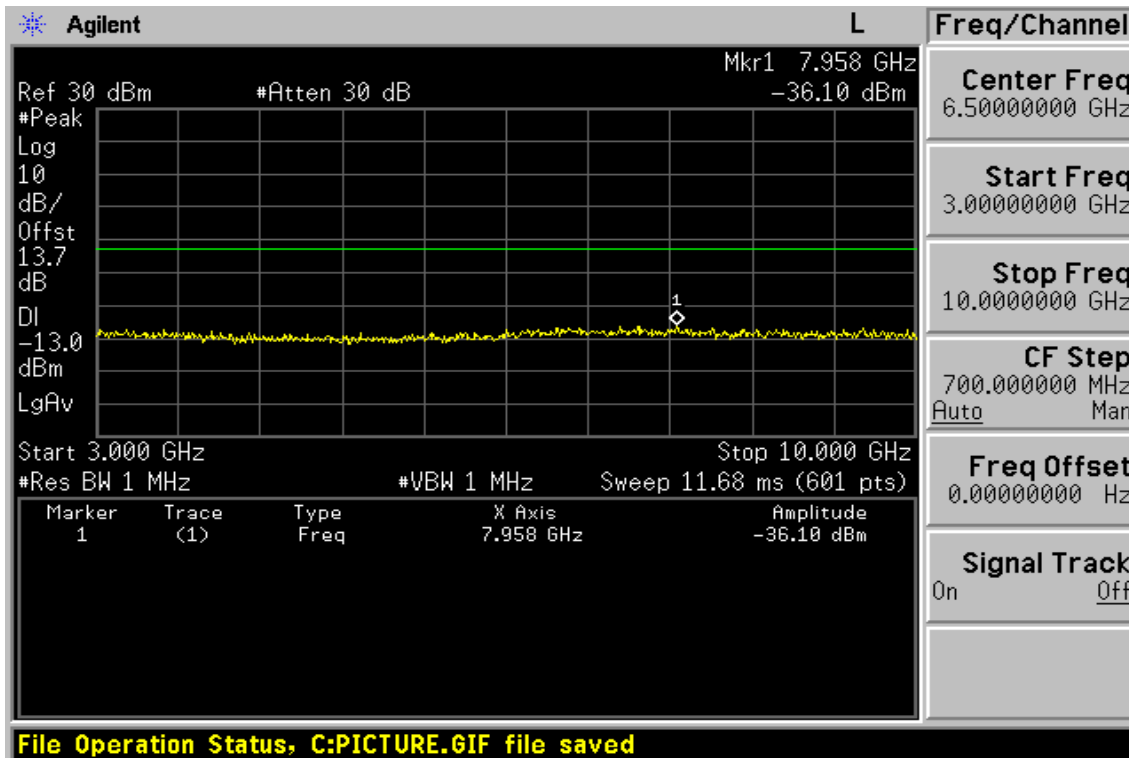
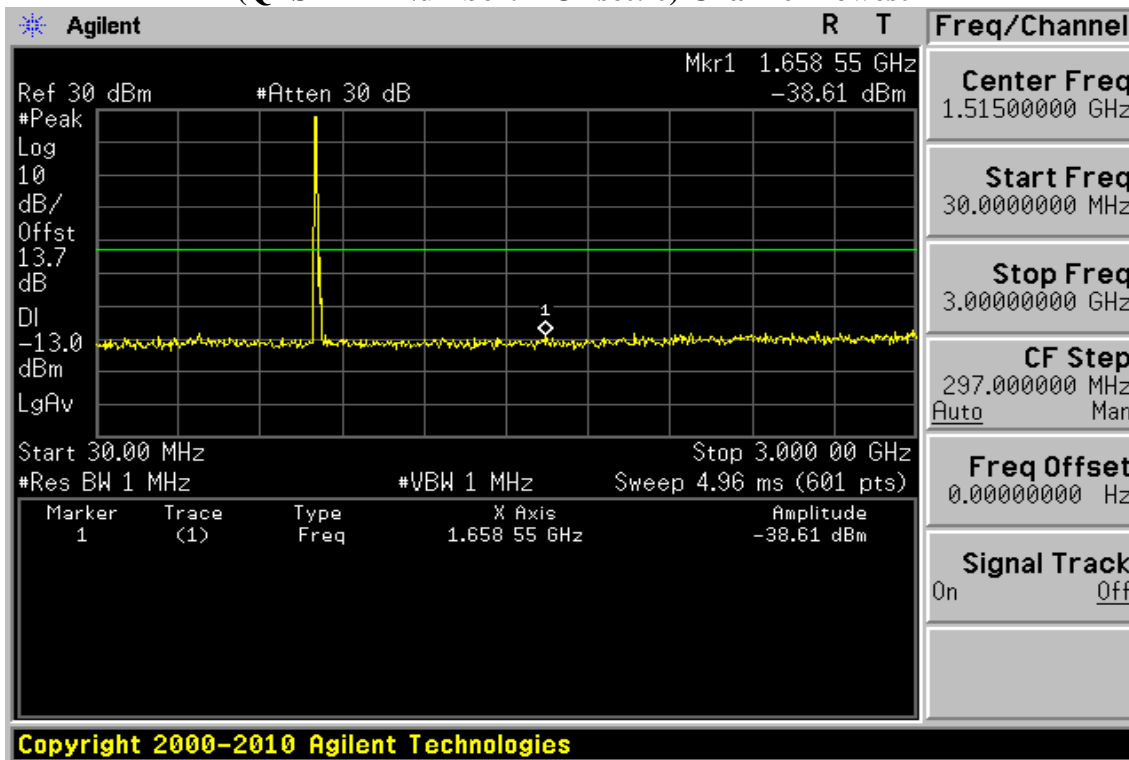
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**Figure 9-181: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

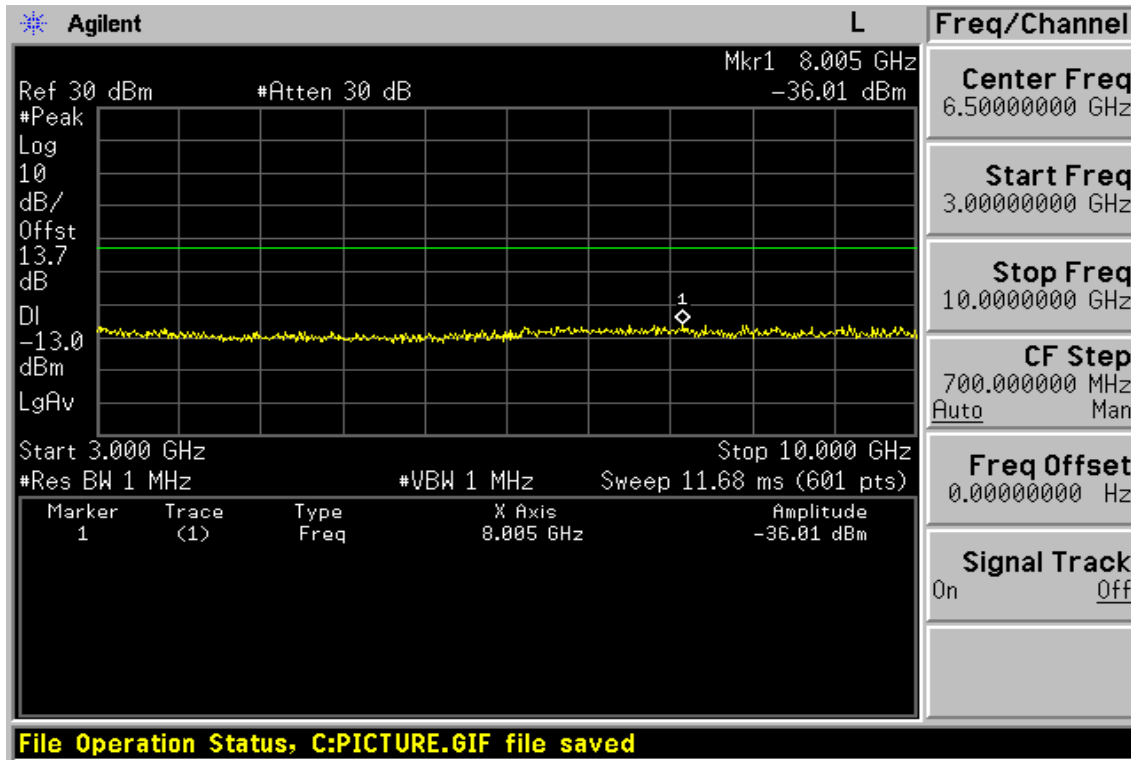
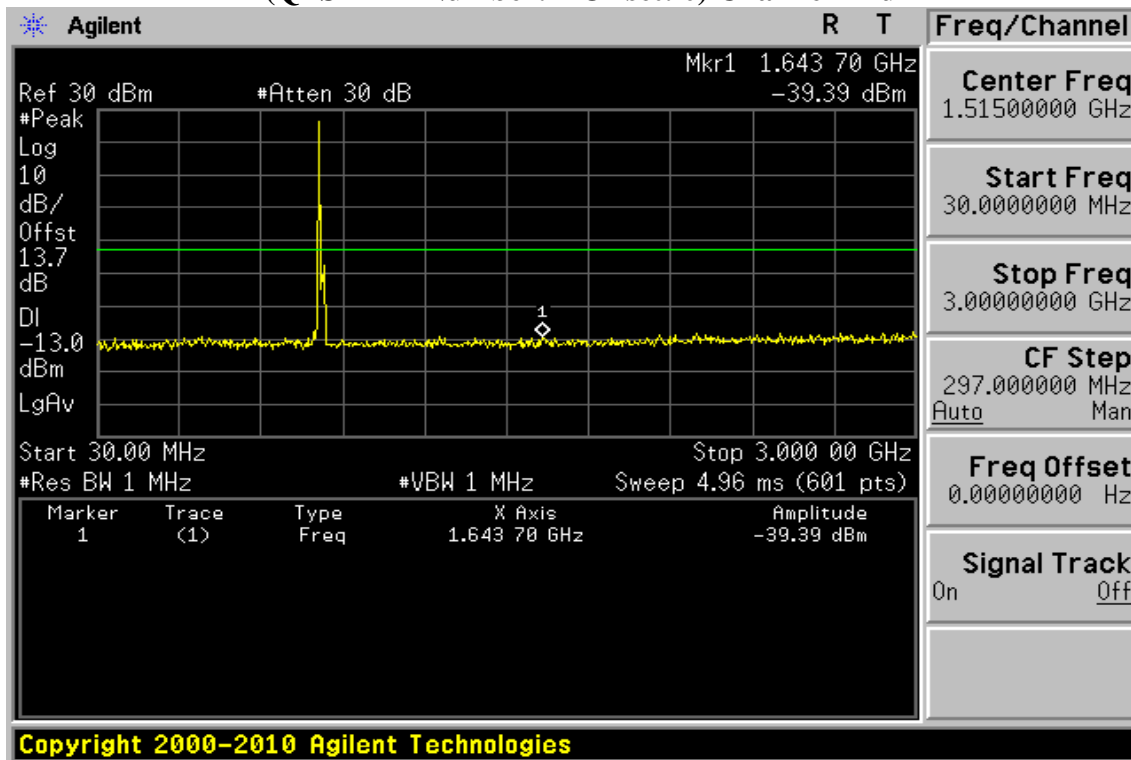


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**Figure 9-182: Out of Band emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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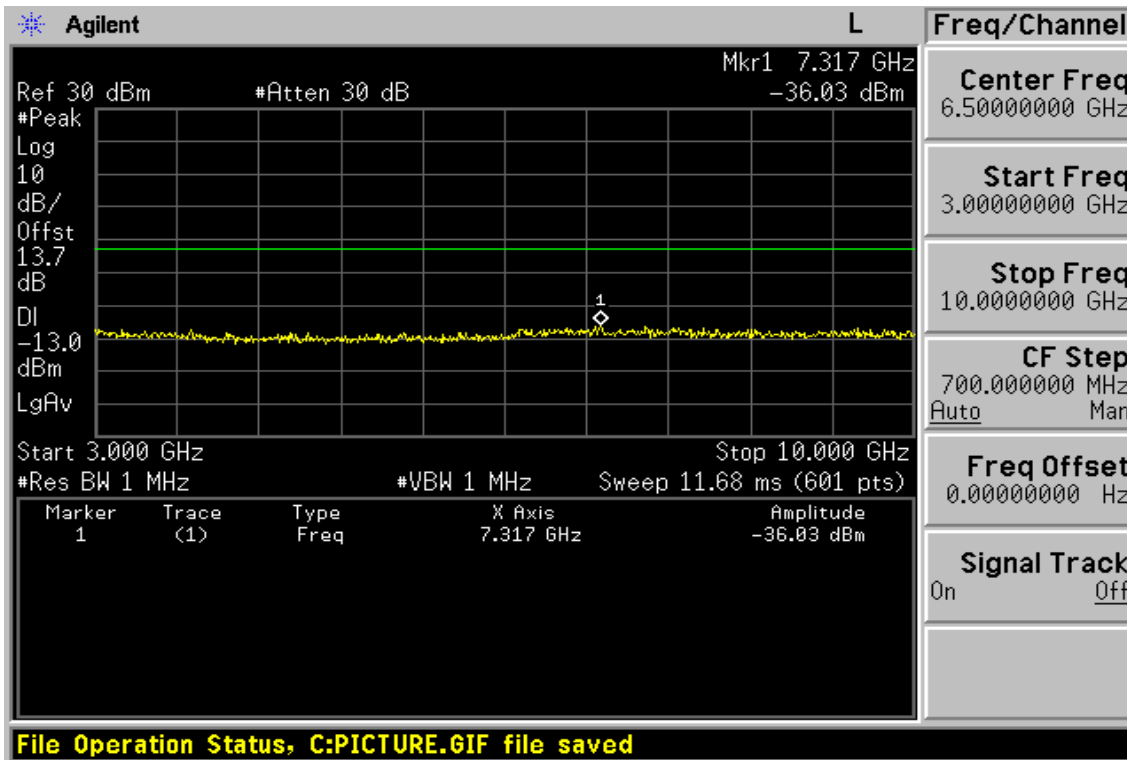
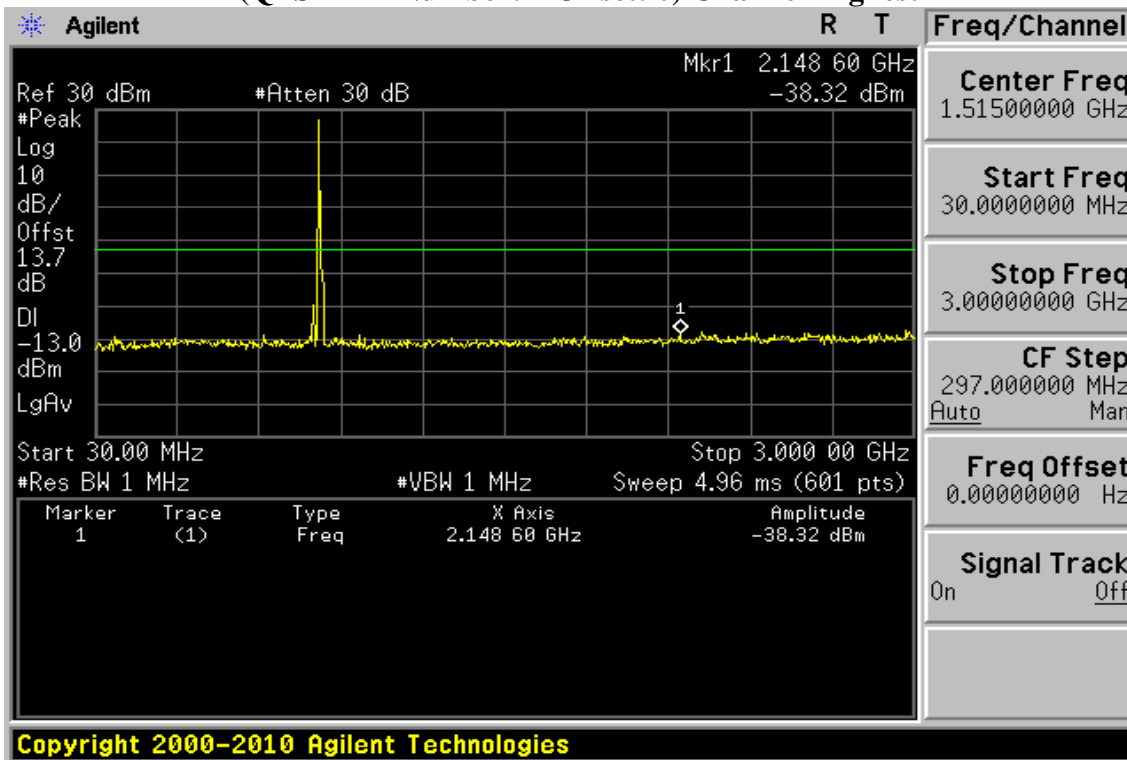
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**Figure 9-183: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 5**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :829.0 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1658.00	H	---	-13.00	---
2487.00	H	---	-13.00	---
3316.00	H	---	-13.00	---
4145.00	H	---	-13.00	---
4974.00	H	---	-13.00	---
5803.00	H	---	-13.00	---
6632.00	H	---	-13.00	---
7461.00	H	---	-13.00	---
7958.00	S	-36.10	-13.00	23.10
8290.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.00	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7528.50	H	---	-13.00	---
8005.00	S	-36.01	-13.00	23.01
8365.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :844.0 MHz Engineer :Nick  
 Operation Mode :TX High

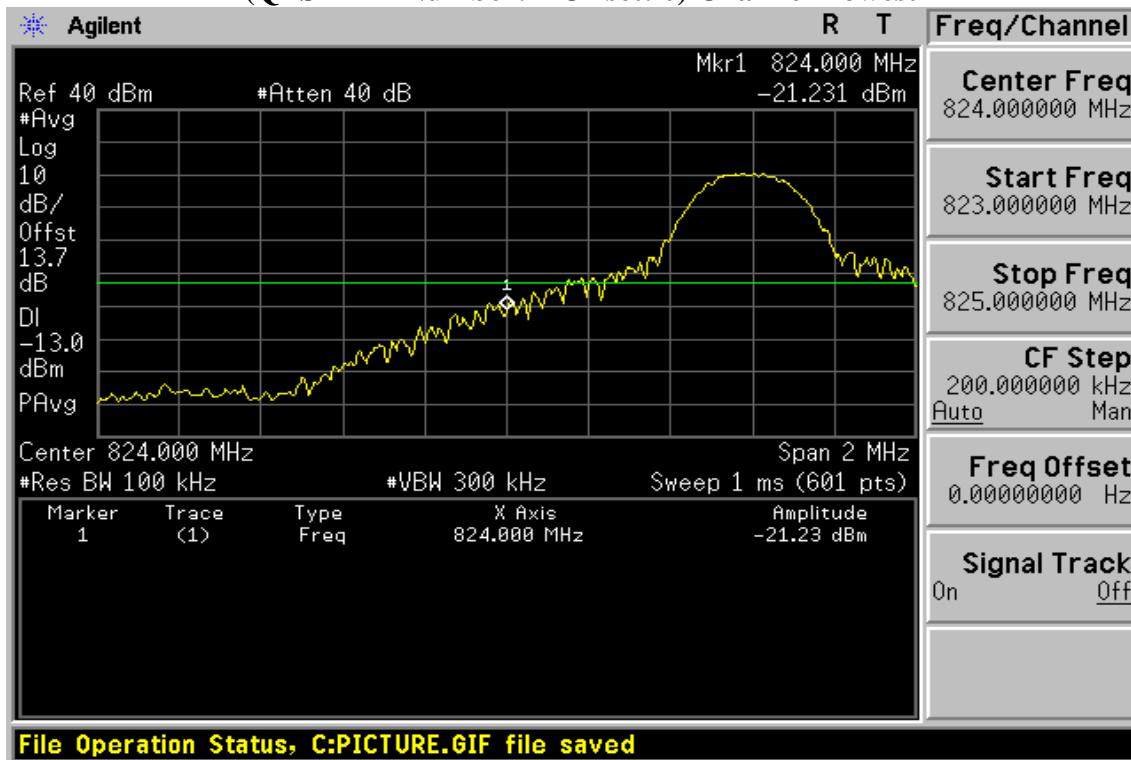
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1688.00	H	---	-13.00	---
2532.00	H	---	-13.00	---
3376.00	H	---	-13.00	---
4220.00	H	---	-13.00	---
5064.00	H	---	-13.00	---
5908.00	H	---	-13.00	---
6752.00	H	---	-13.00	---
7317.00	S	-36.03	-13.00	23.03
7596.00	H	---	-13.00	---
8440.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Spurious Freque

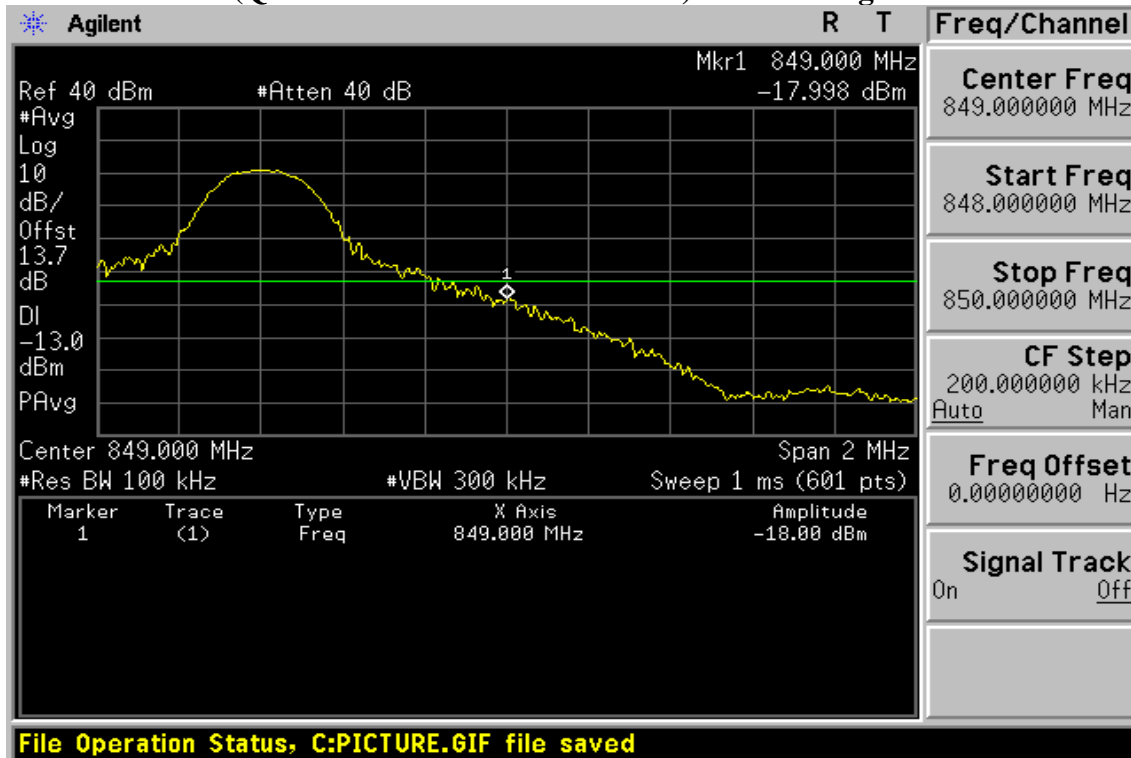
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**Figure 9-184: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-185: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 5**

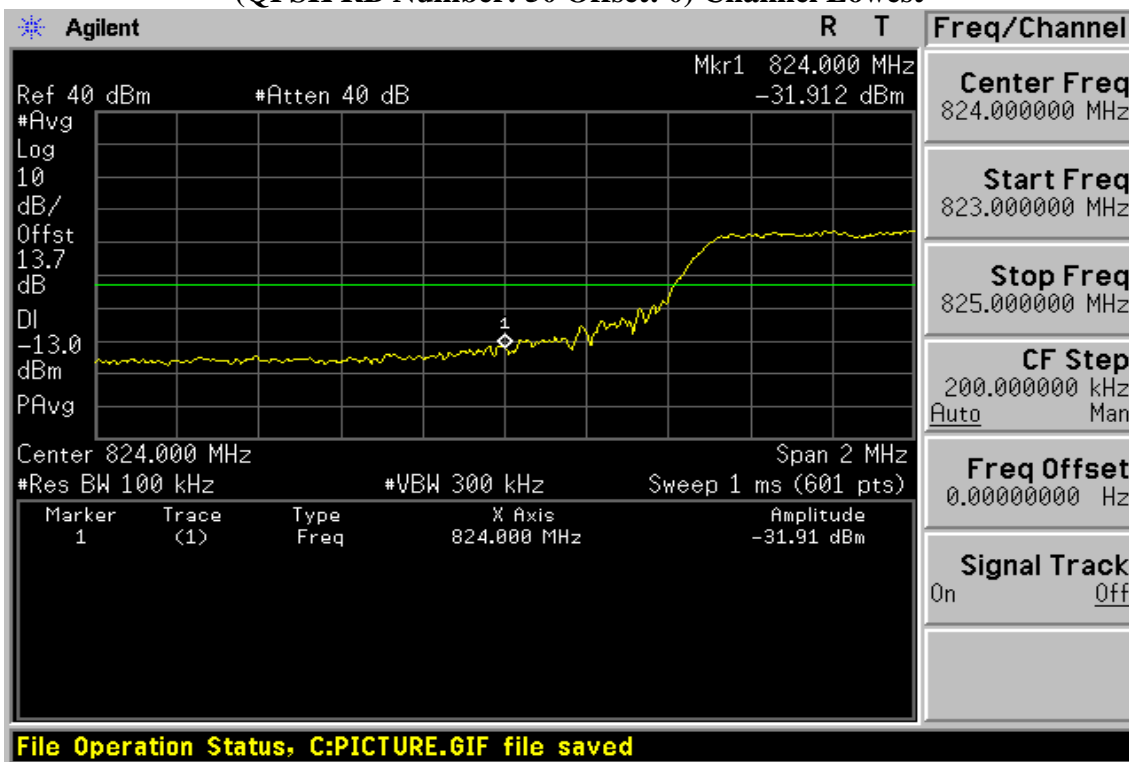
**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)**

Test Mode                      10MHz BW LTE-Band 5      Engineer    :Nick

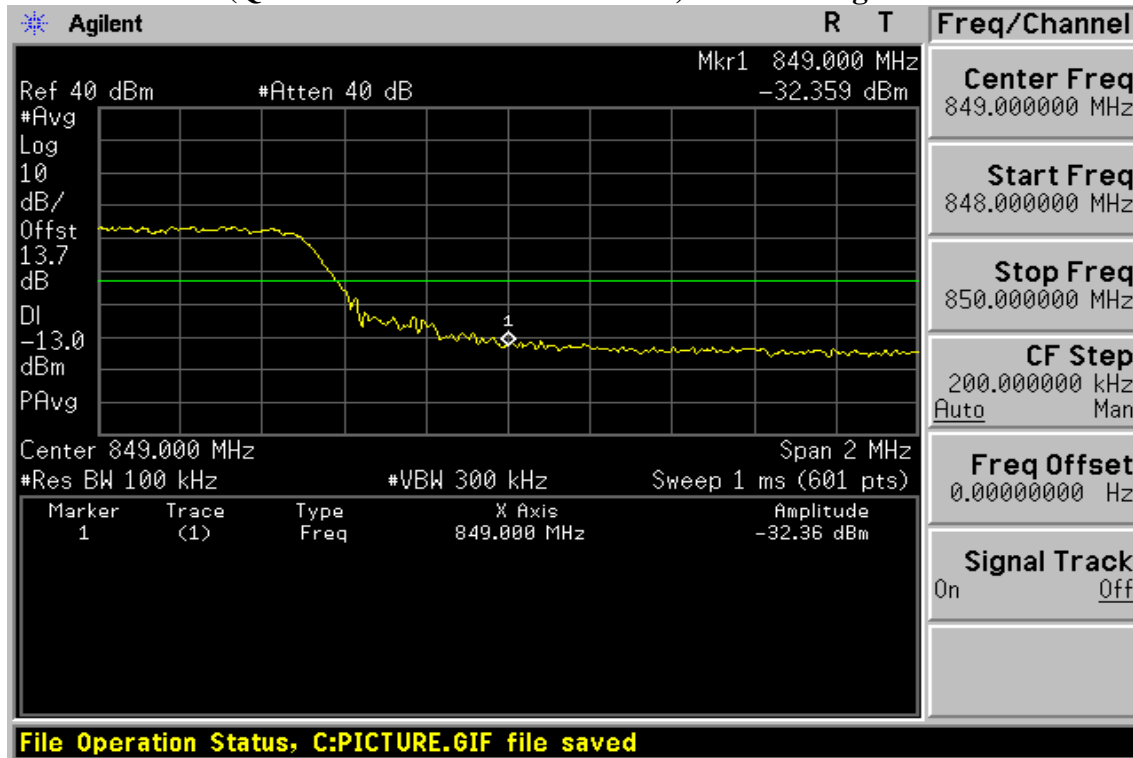
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-21.23	-13.00	8.23
849.000	-18	-13.00	5.00

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**Figure 9-186: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-187: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 5**

**(QPSK RB Number: 50 Offset: 0)**

Test Mode                      10MHz BW LTE-Band 5      Engineer                                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-31.91	-13.00	18.91
849.000	-32.36	-13.00	19.36

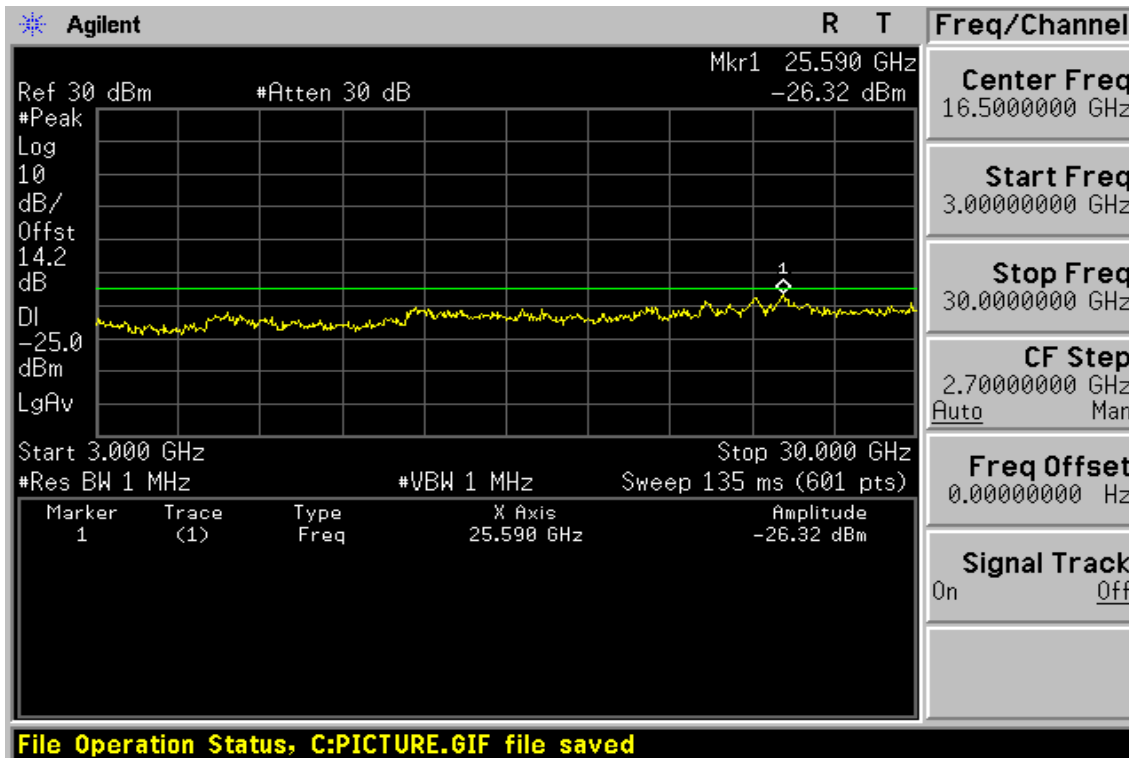
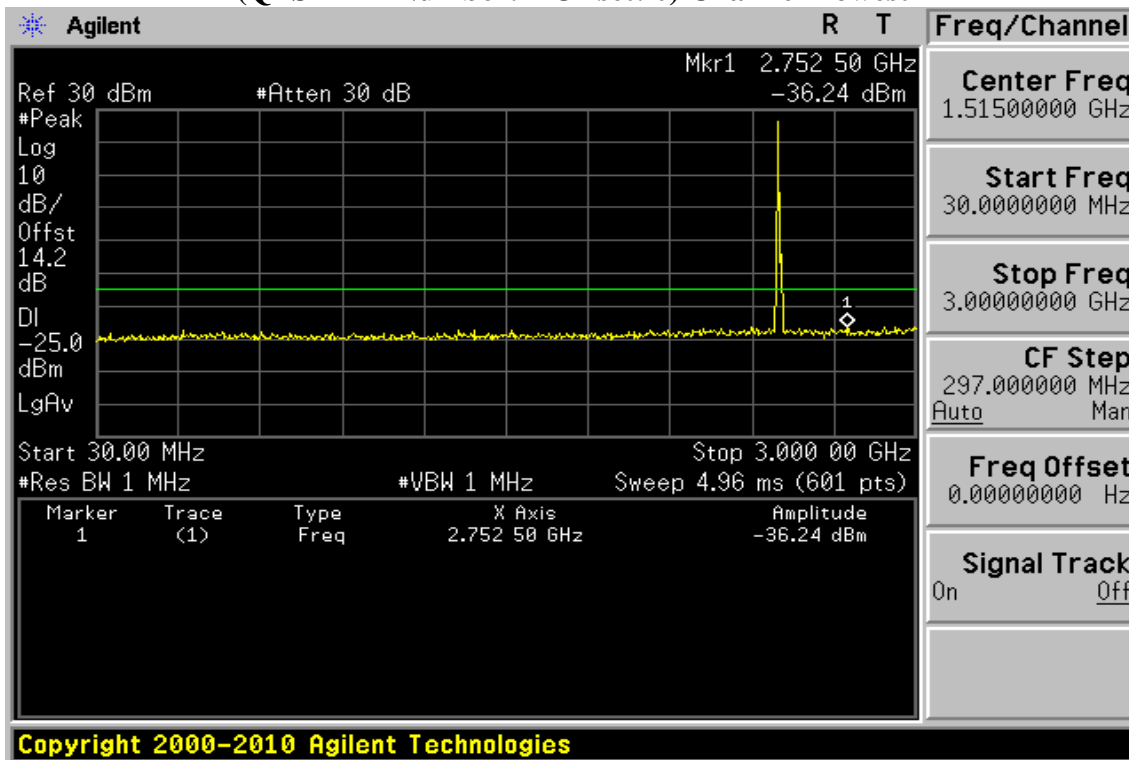
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**Figure 9-188: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

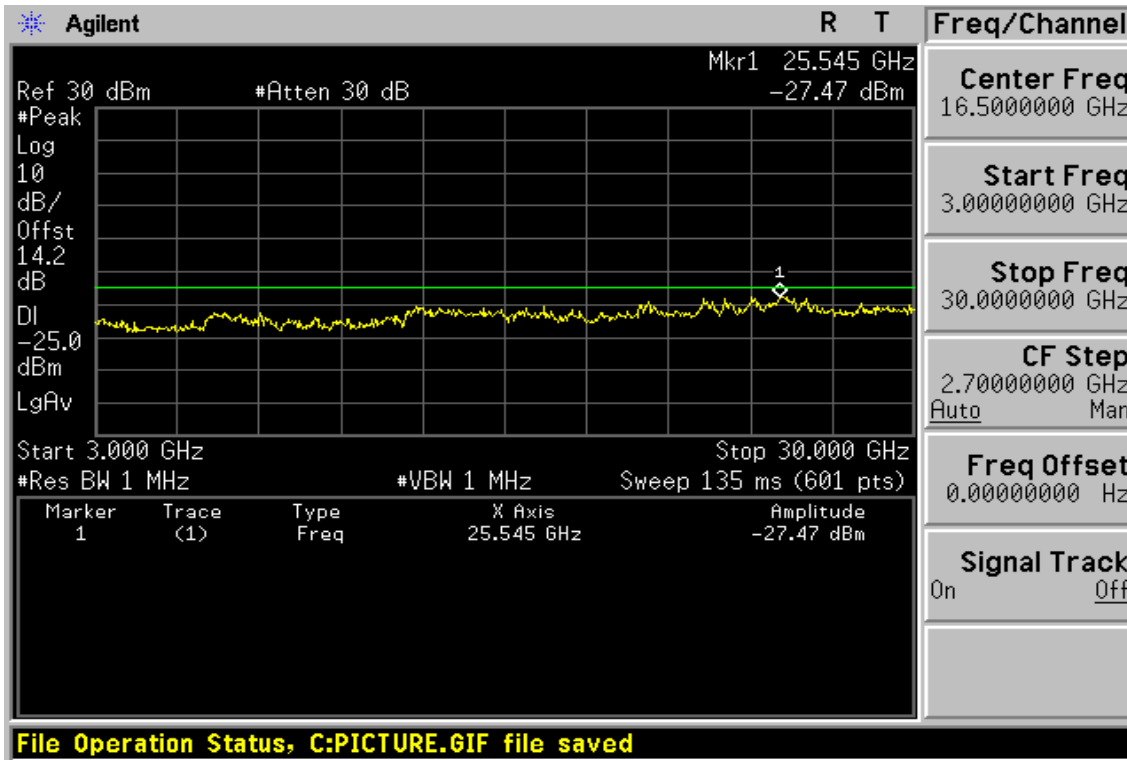
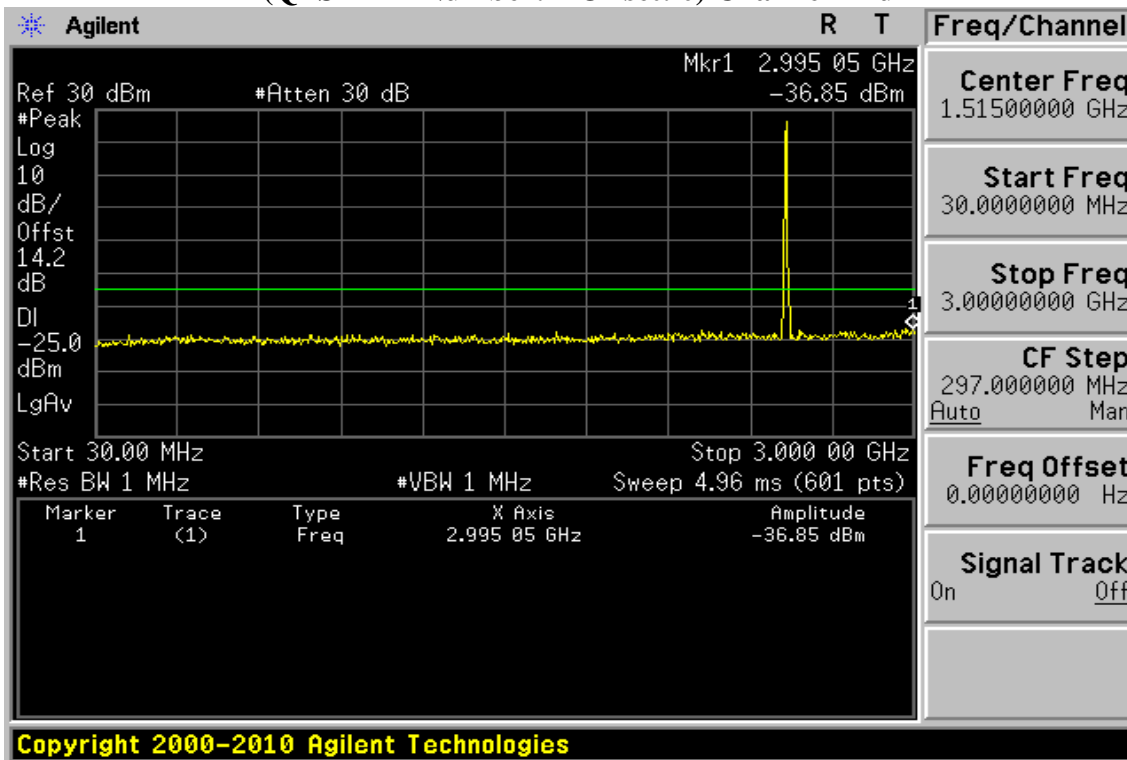


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**Figure 9-189: Out of Band emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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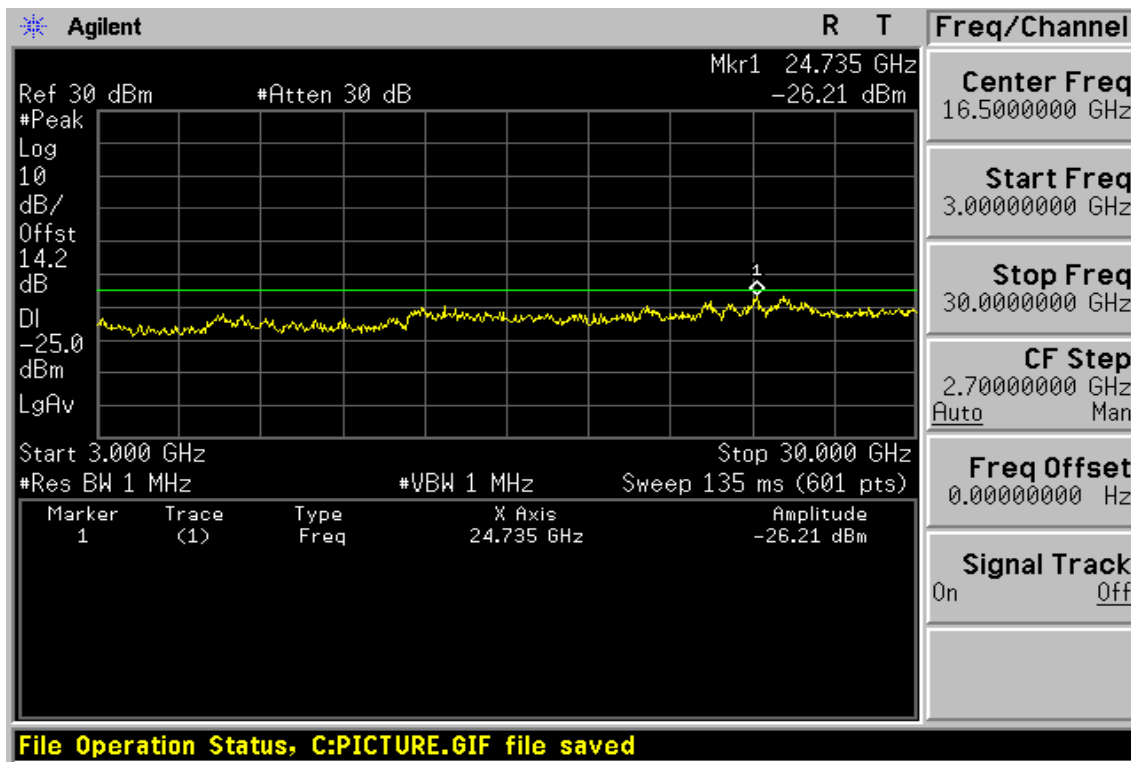
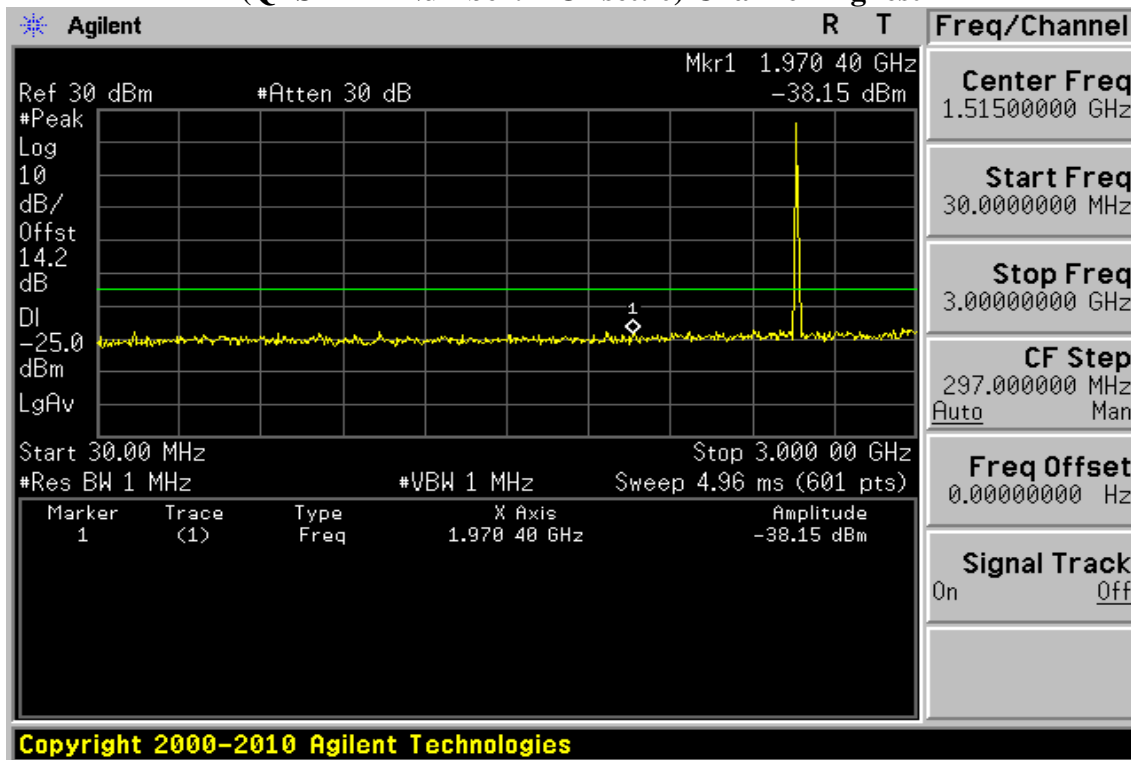
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**Figure 9-190: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 7**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :2502.5 MHz Engineer :Marcus  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5005.00	H	---	-13.00	---
7507.50	H	---	-13.00	---
10010.00	H	---	-13.00	---
12512.50	H	---	-13.00	---
15015.00	H	---	-13.00	---
17517.50	H	---	-13.00	---
20020.00	H	---	-13.00	---
22522.50	H	---	-13.00	---
25025.00	H	---	-13.00	---
25590.00	S	-26.32	-13.00	13.32

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :2535 MHz Engineer :Marcus  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25545.00	S	-27.47	-13.00	14.47

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :2567.5MHz Engineer :Marcus  
 Operation Mode :TX High

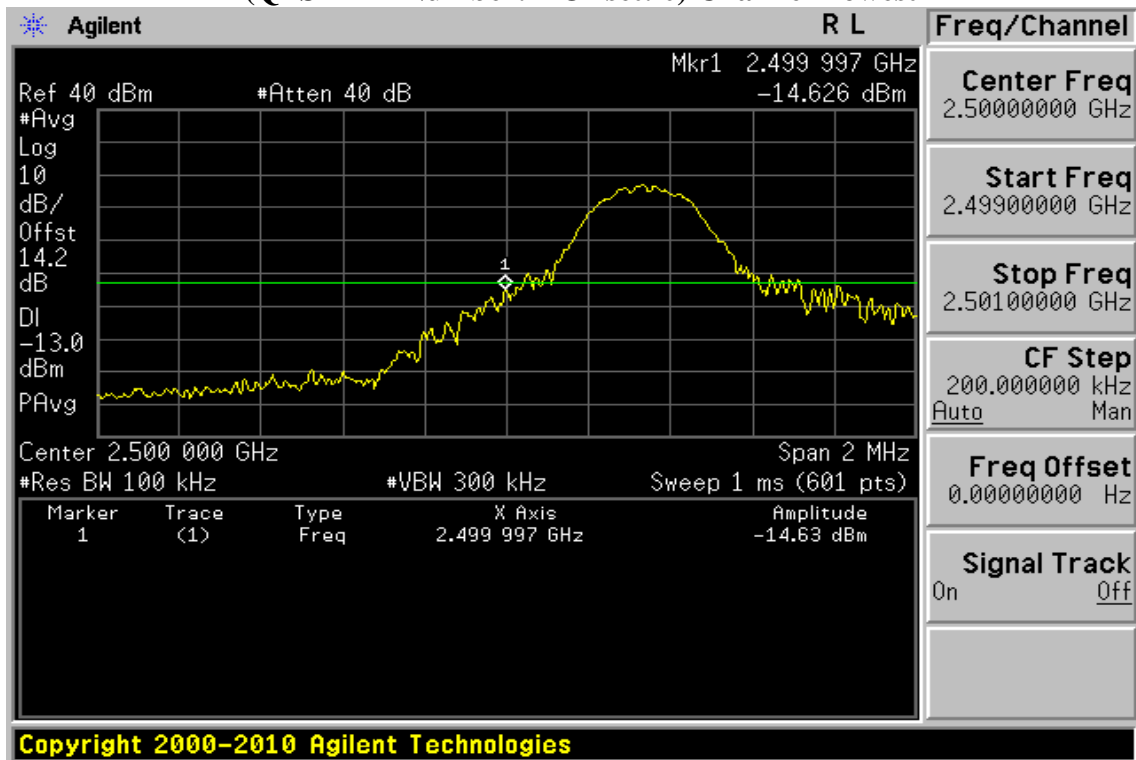
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5135.00	H	---	-13.00	---
7702.50	H	---	-13.00	---
10270.00	H	---	-13.00	---
12837.50	H	---	-13.00	---
15405.00	H	---	-13.00	---
17972.50	H	---	-13.00	---
20540.00	H	---	-13.00	---
23107.50	H	---	-13.00	---
24735.00	S	-26.21	-13.00	13.21
25675.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

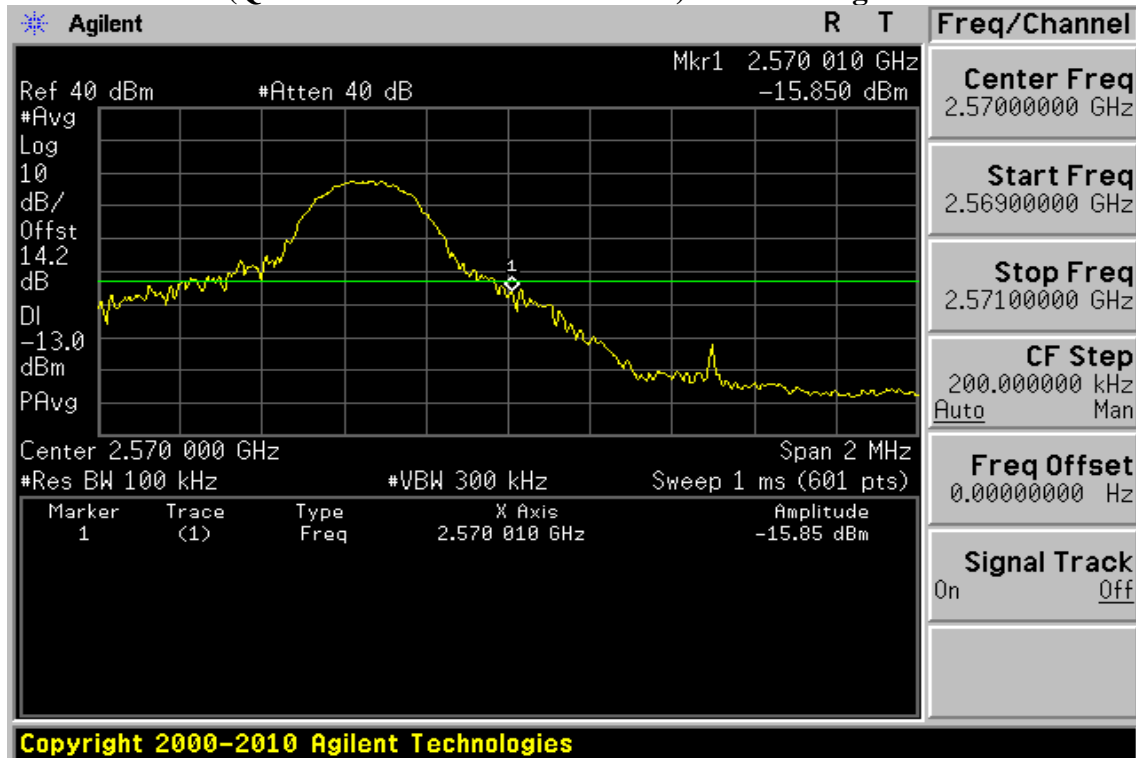
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**Figure 9-191: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-192: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 7**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)**

Test Mode                      5MHz BW LTE-Band 7                      Engineer    :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-14.63	-13.00	1.63
2570.000	-15.85	-13.00	2.85

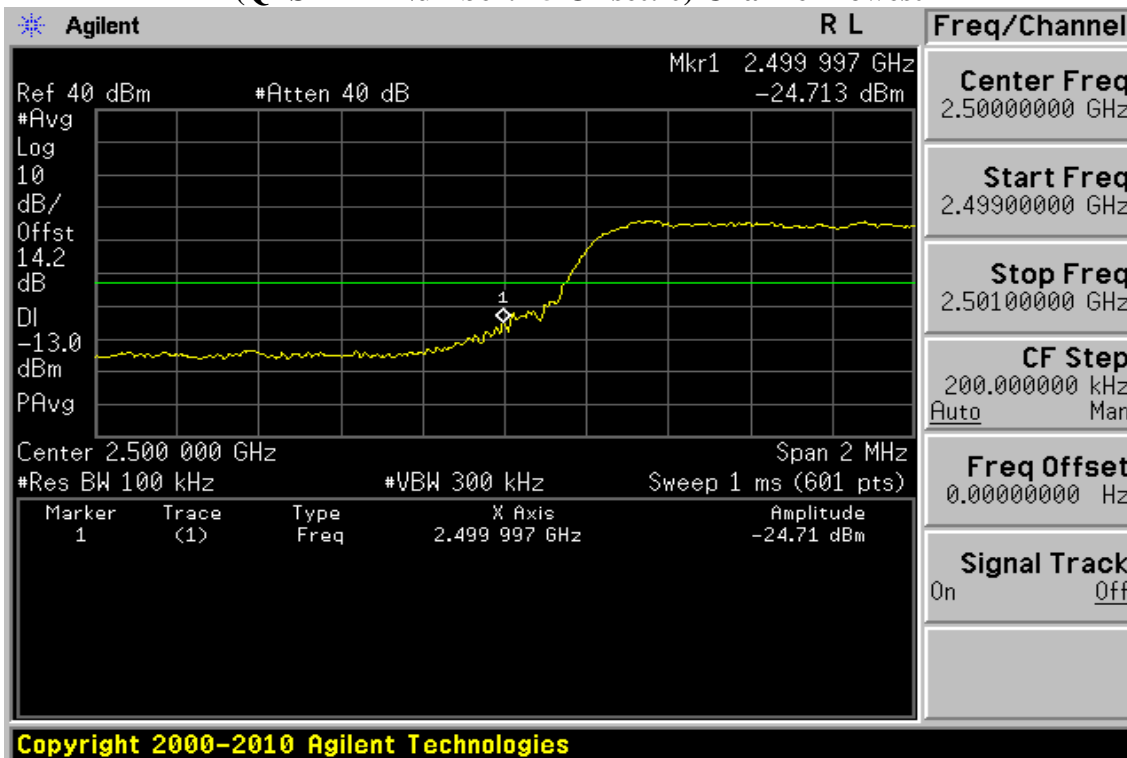
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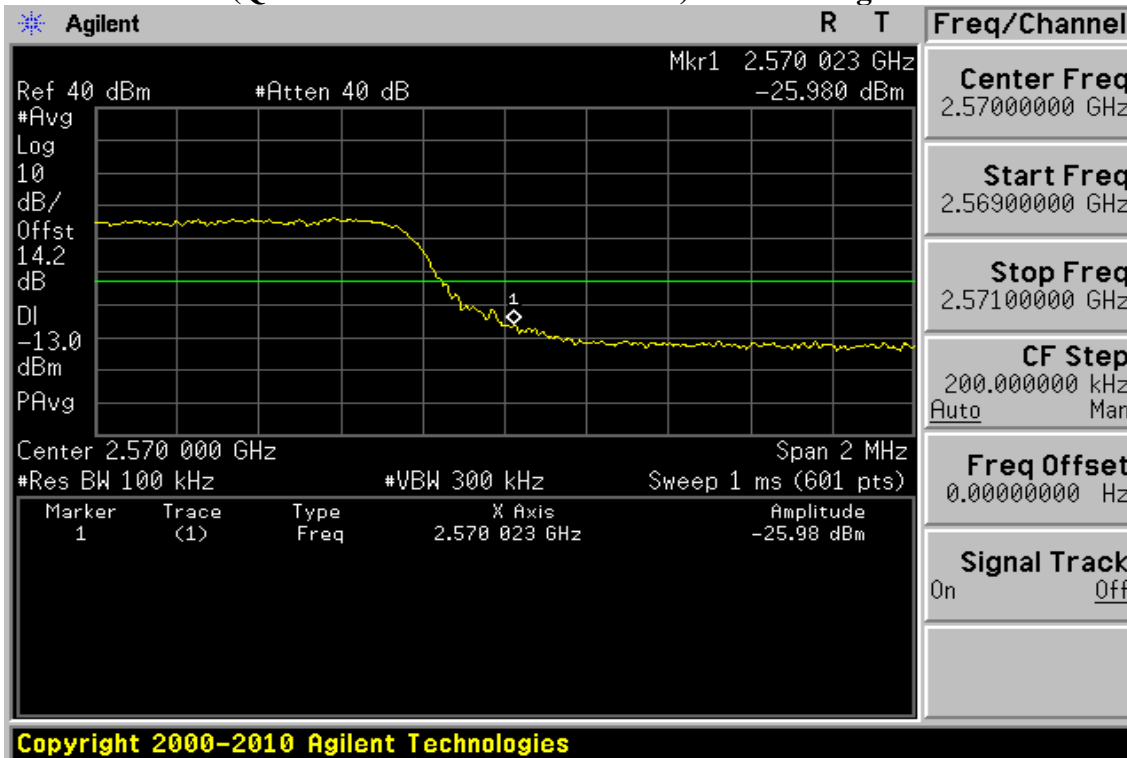
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**Figure 9-193: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-194: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 7**

**(QPSK RB Number: 25 Offset: 0)**

Test Mode                      5MHz BW LTE-Band 7                      Engineer                      :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2499.997	-24.71	-13.00	11.71
2570.023	-25.98	-13.00	12.98

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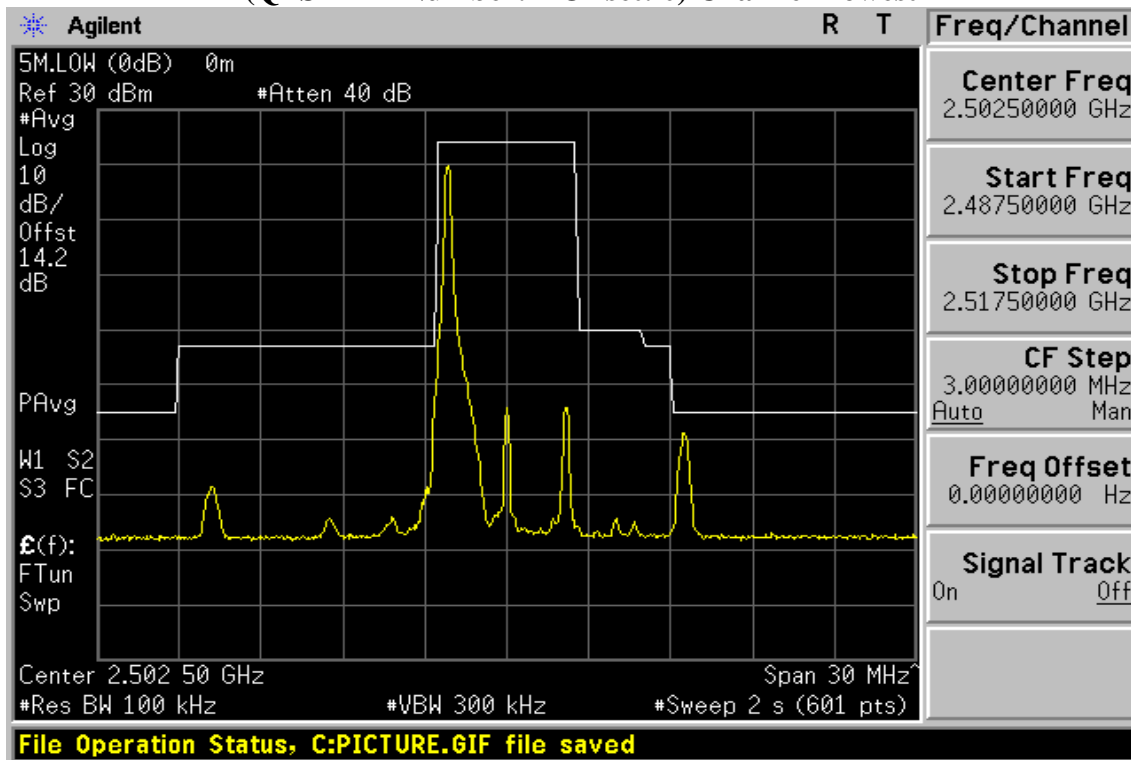
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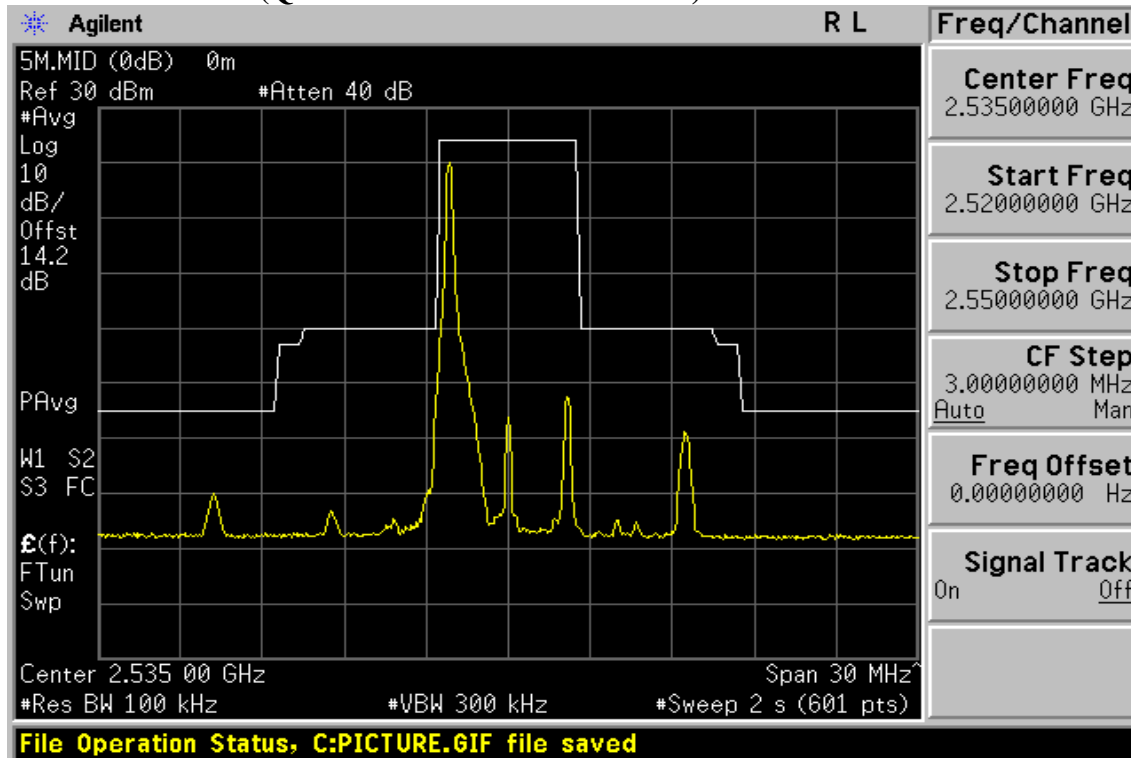
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**Figure 9-195: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-196: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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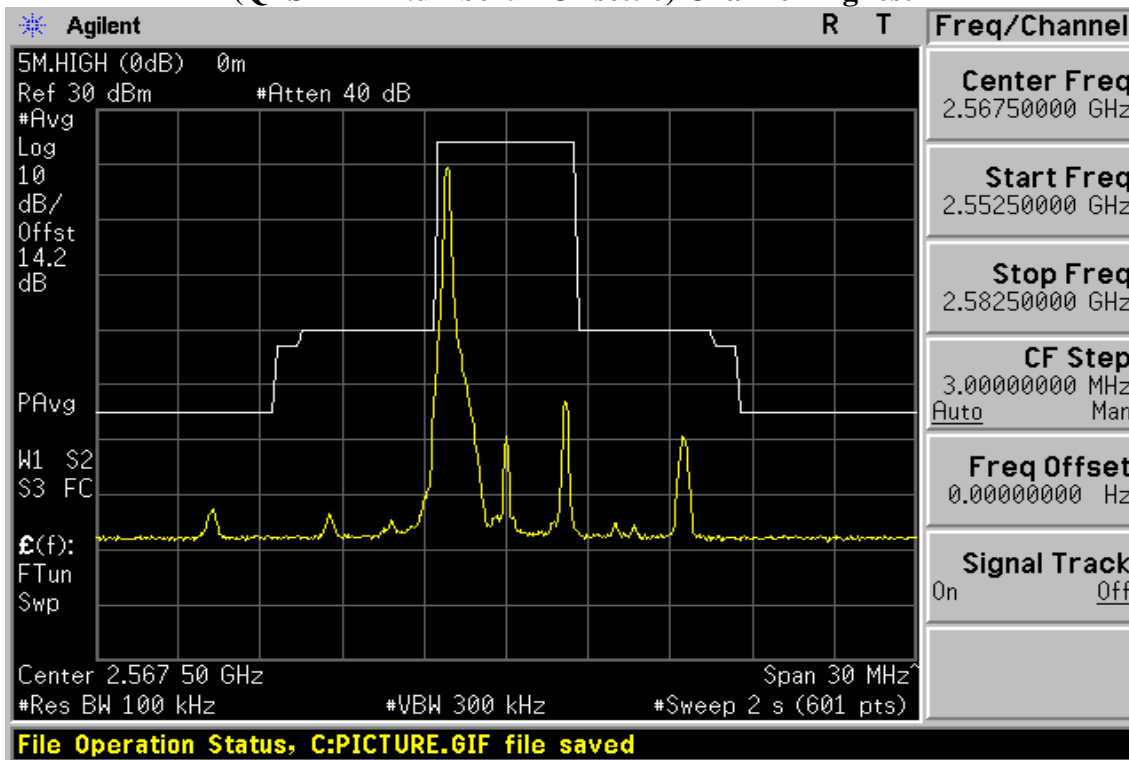
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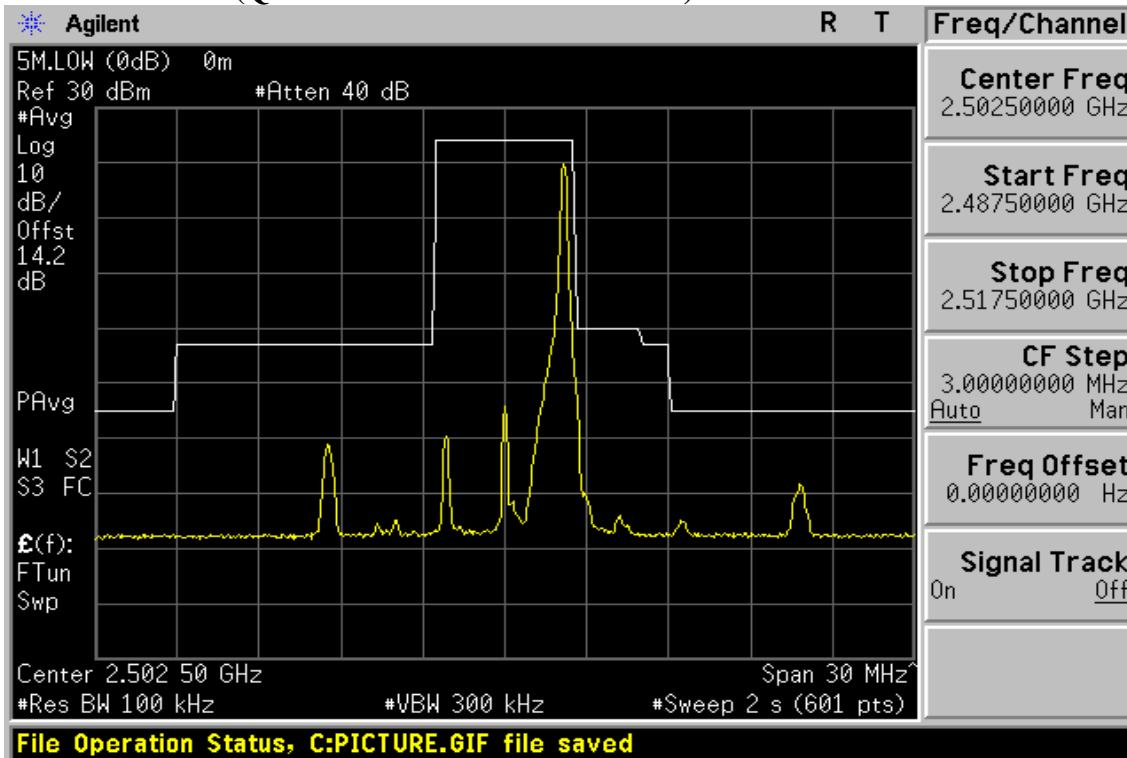
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**Figure 9-197: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest**



**Figure 9-198: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Lowest**



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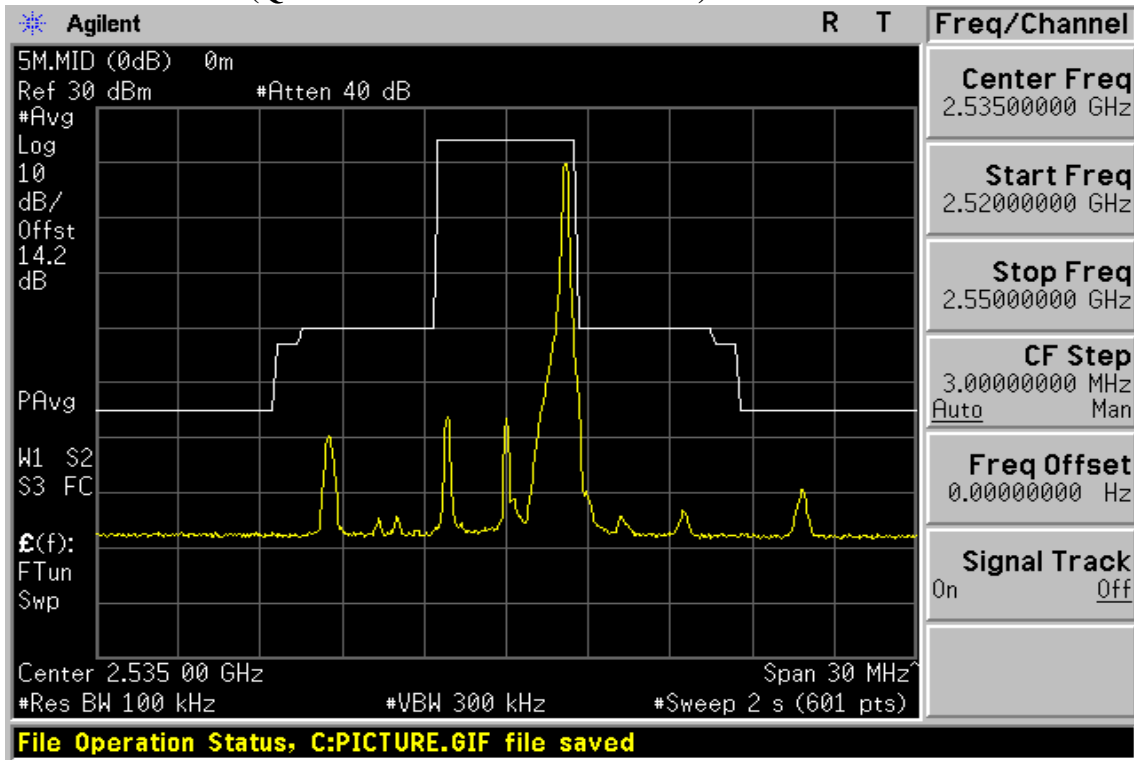
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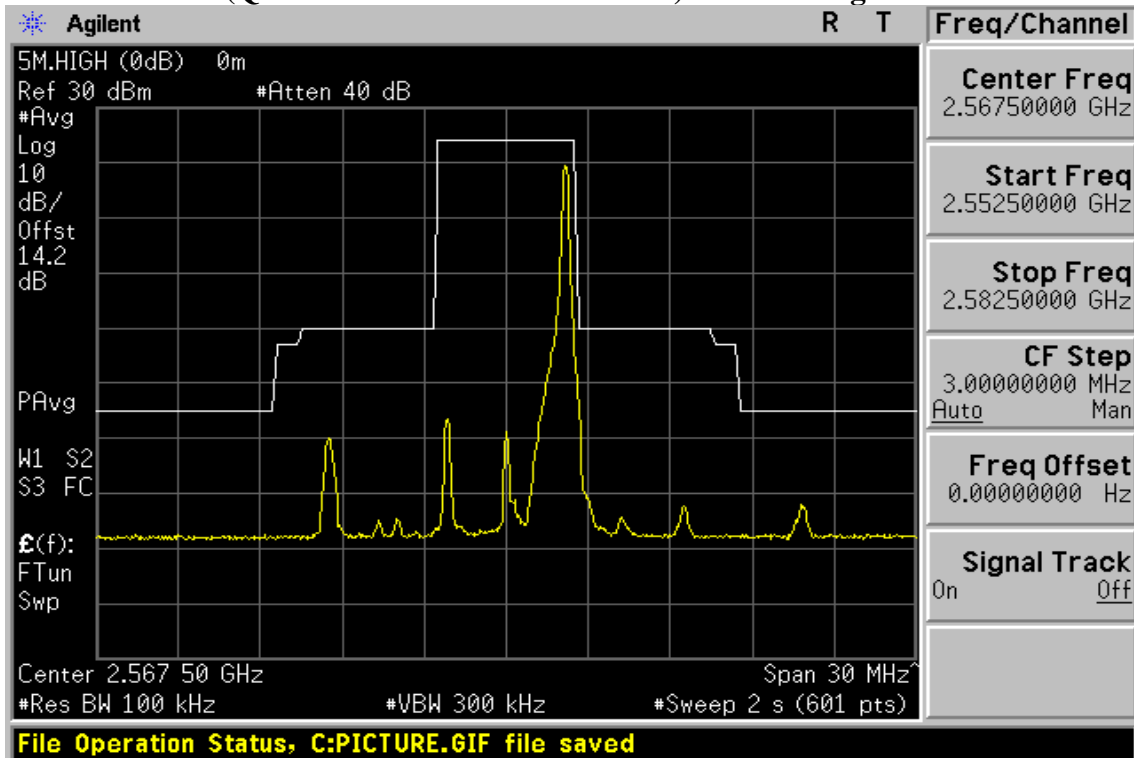
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**Figure 9-199: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Mid**



**Figure 9-200: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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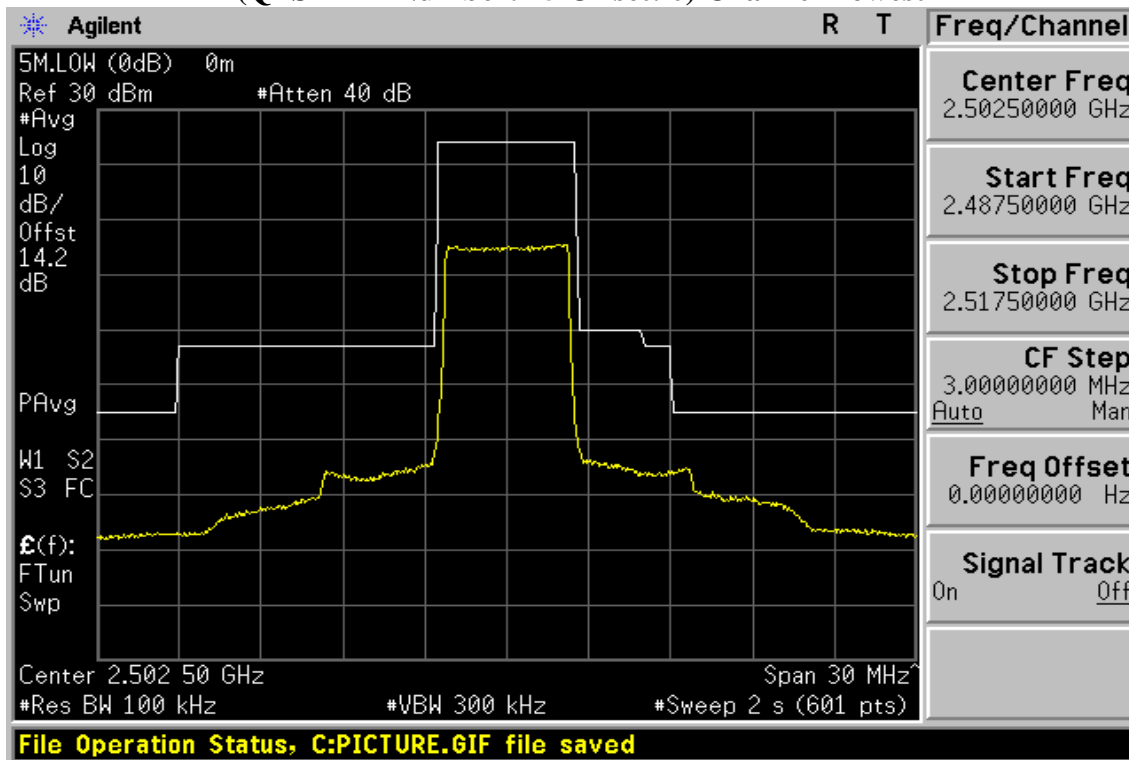
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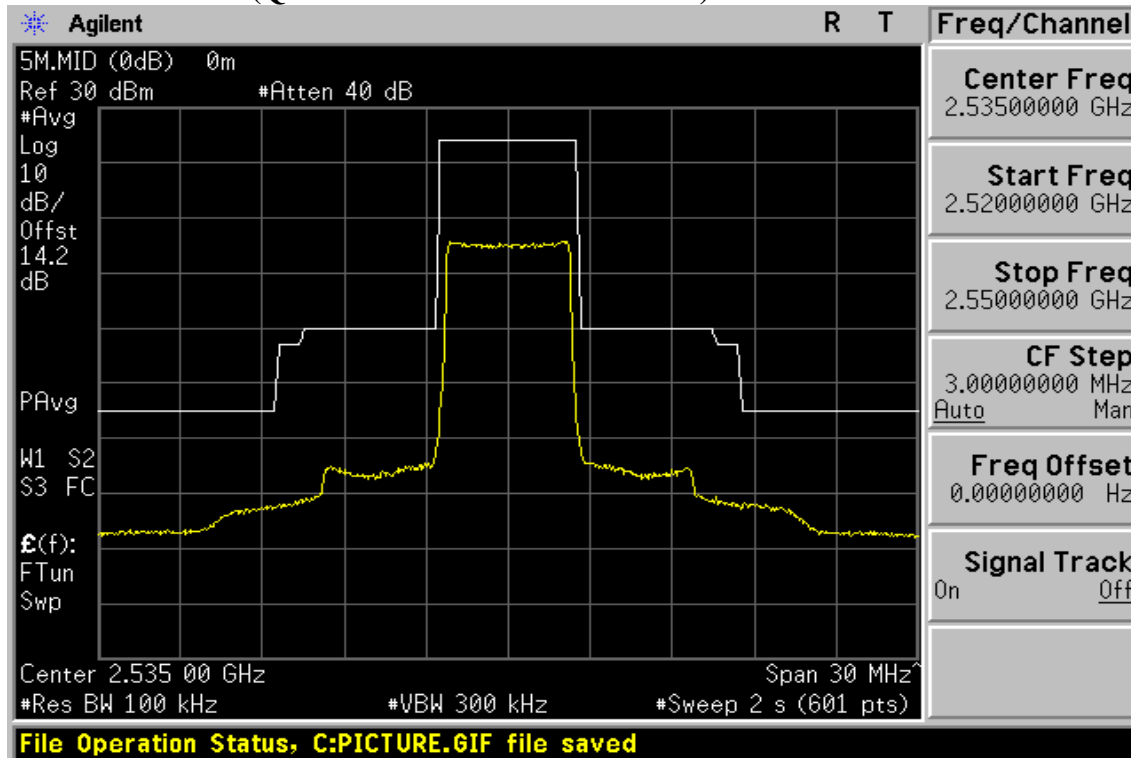
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**Figure 9-201: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Lowest**

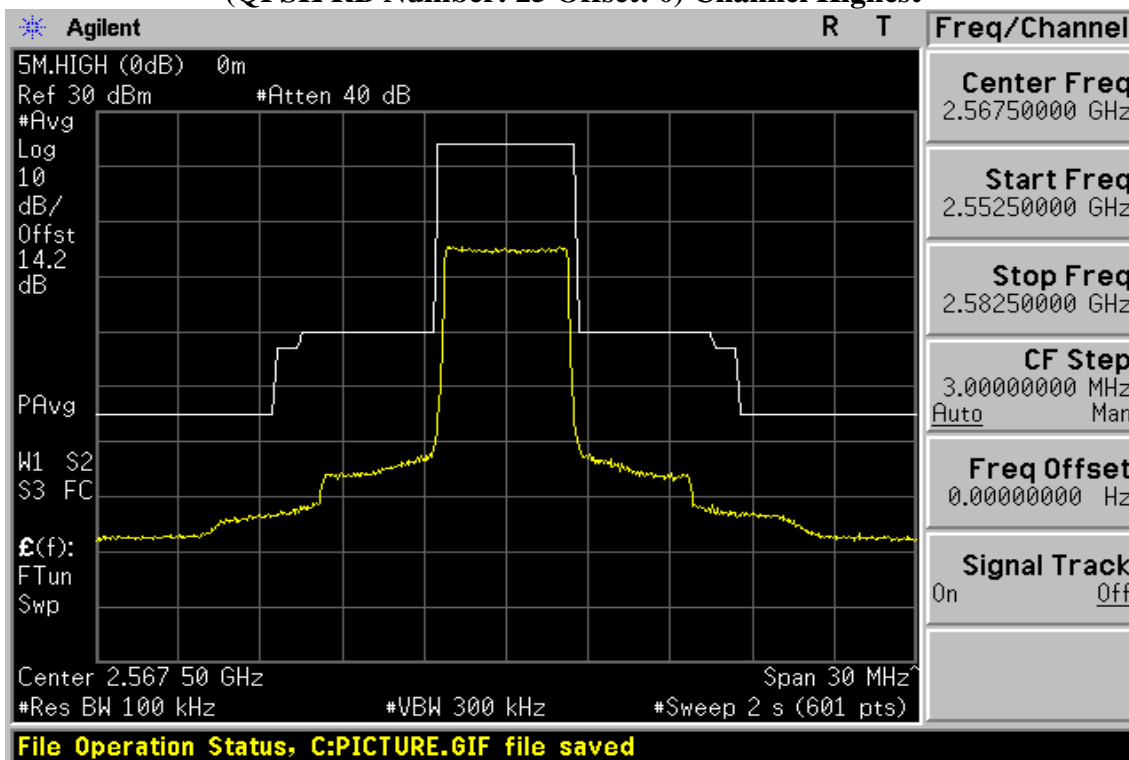


**Figure 9-202: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Mid**



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**Figure 9-203: Emission MASK at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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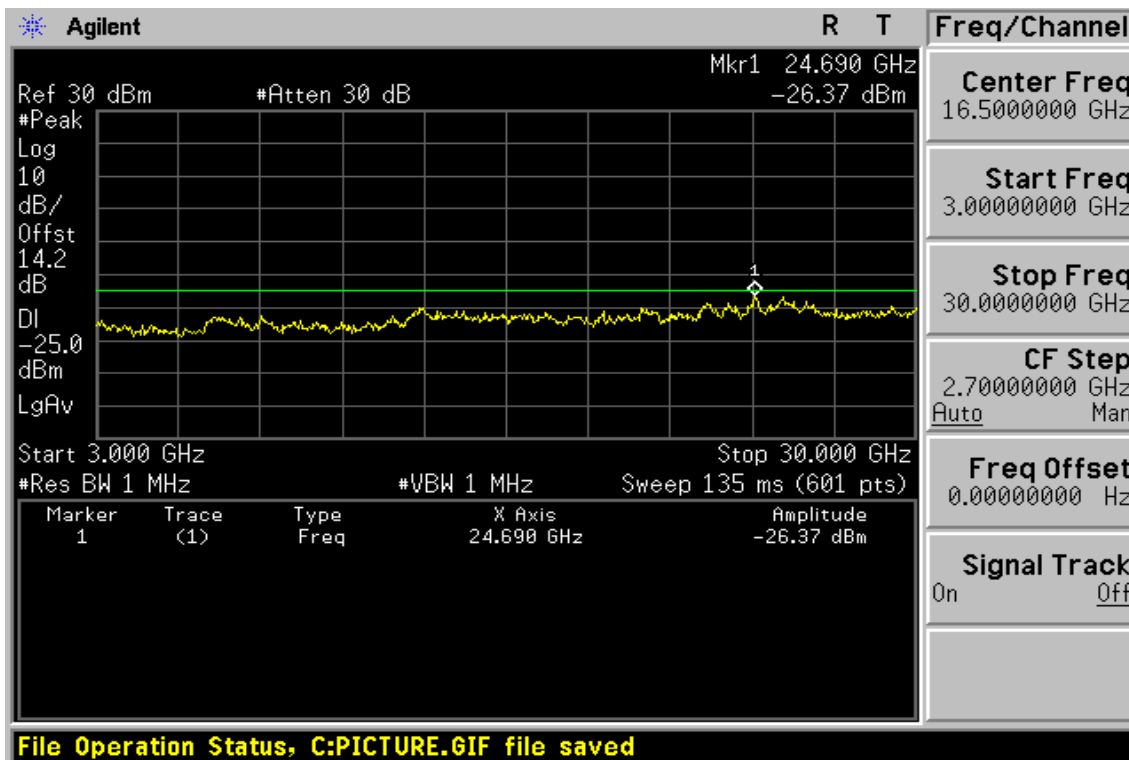
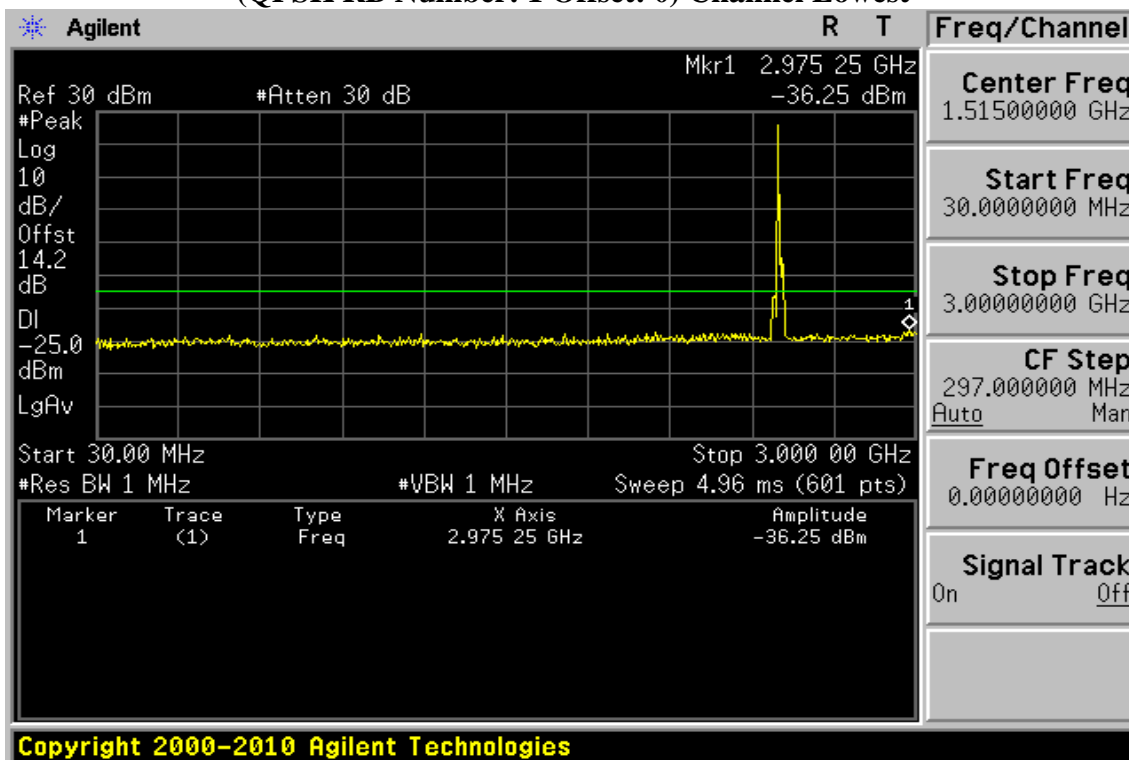
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**Figure 9-204: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

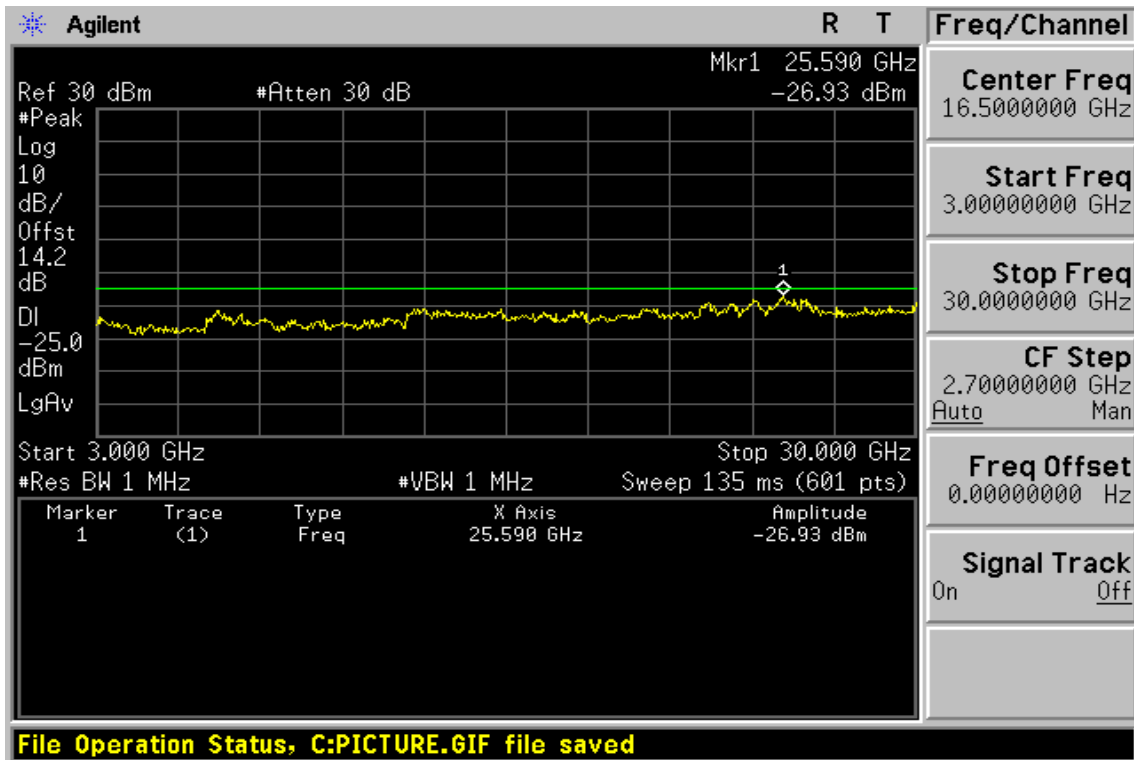
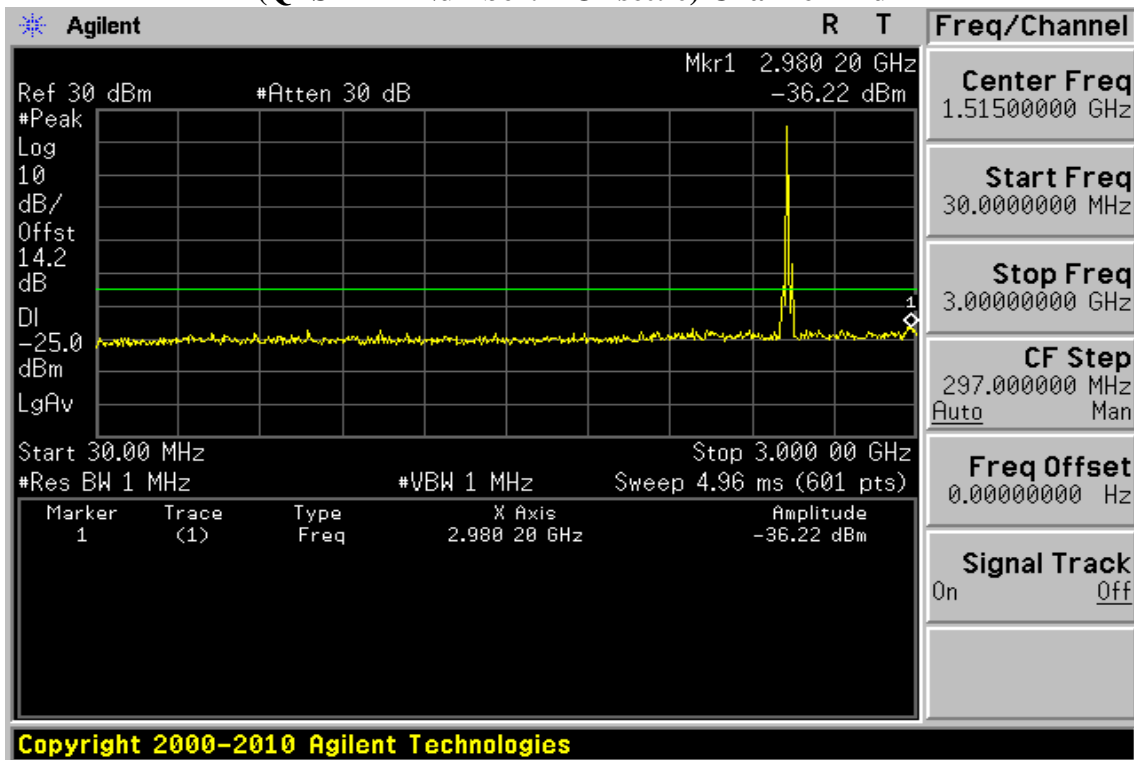


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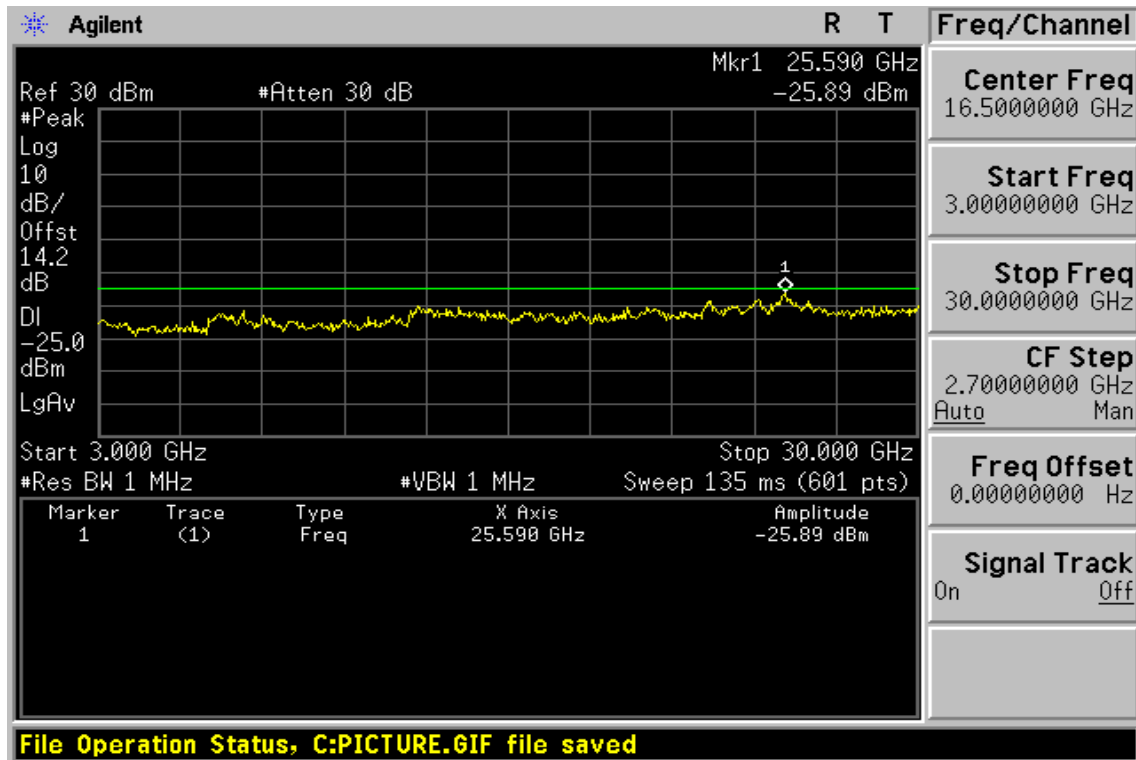
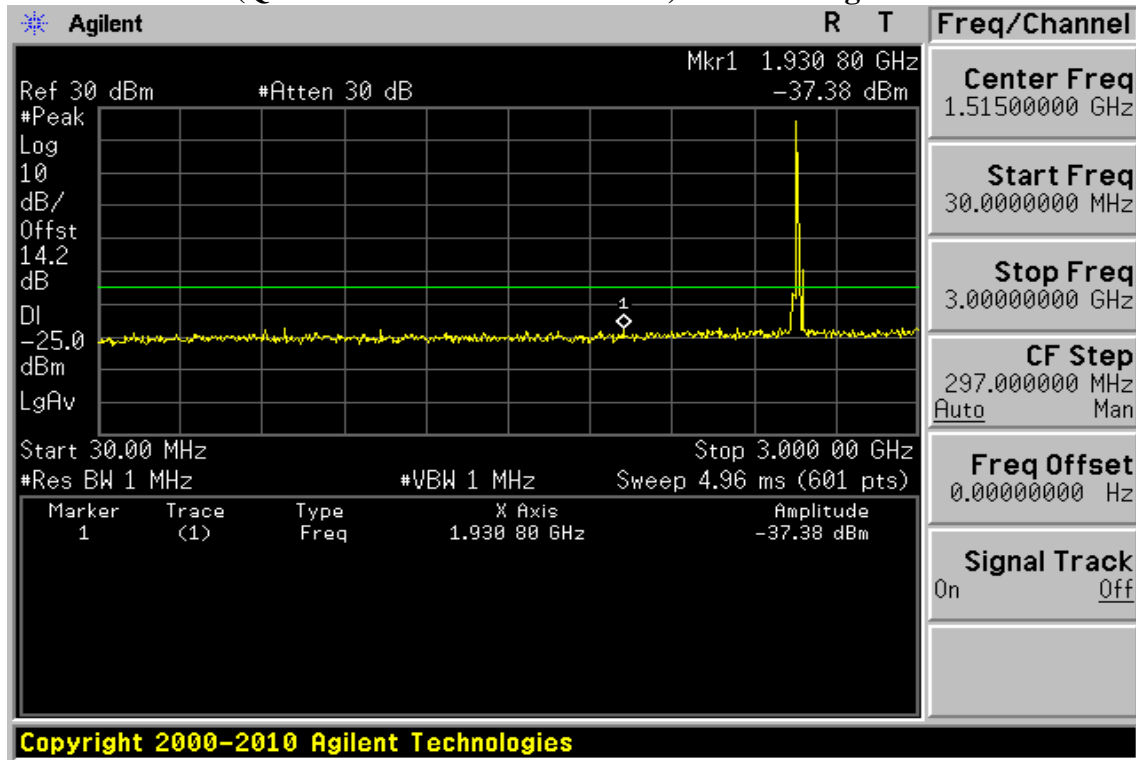
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**Figure 9-205: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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**Figure 9-206: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 7**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :2505.5 MHz Engineer :Marcus  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5011.00	H	---	-13.00	---
7516.50	H	---	-13.00	---
10022.00	H	---	-13.00	---
12527.50	H	---	-13.00	---
15033.00	H	---	-13.00	---
17538.50	H	---	-13.00	---
20044.00	H	---	-13.00	---
22549.50	H	---	-13.00	---
24690.00	S	-26.37	-13.00	13.37
25055.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :2535 MHz Engineer :Marcus  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25590.00	S	-26.93	-13.00	13.93

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :2565MHz Engineer :Marcus  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5130.00	H	---	-13.00	---
7695.00	H	---	-13.00	---
10260.00	H	---	-13.00	---
12825.00	H	---	-13.00	---
15390.00	H	---	-13.00	---
17955.00	H	---	-13.00	---
20520.00	H	---	-13.00	---
23085.00	H	---	-13.00	---
25590.00	S	-25.89	-13.00	12.89
25650.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

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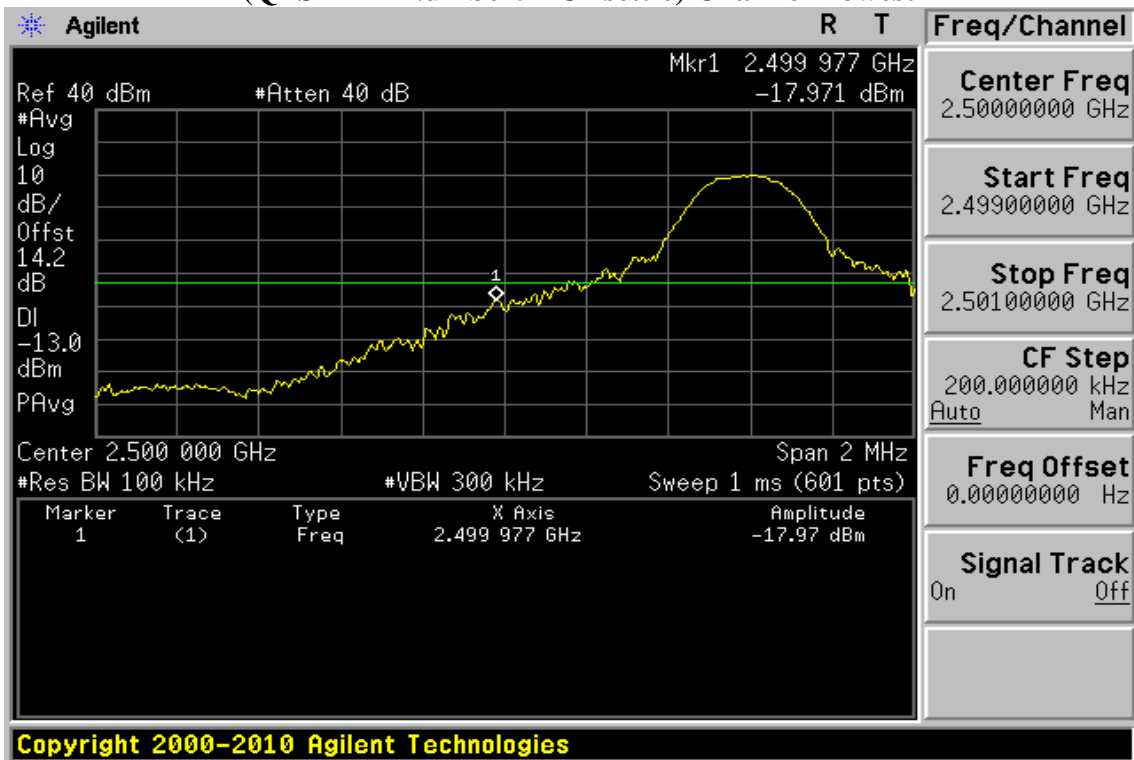
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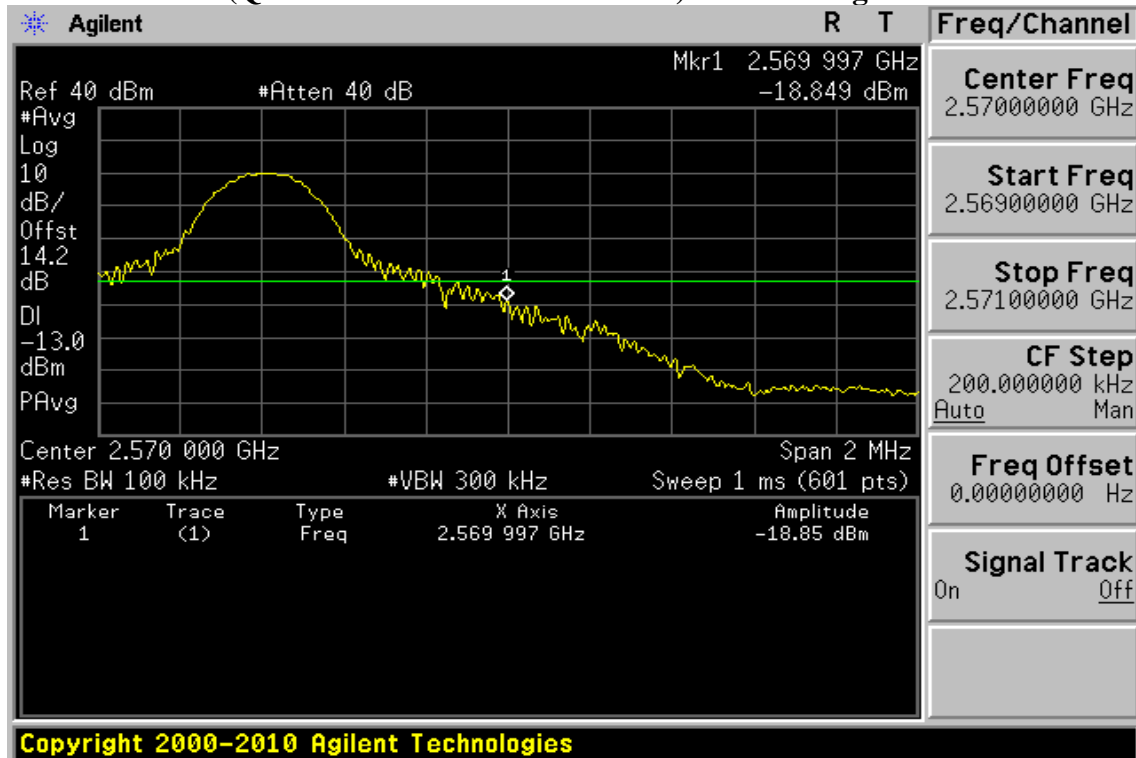
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**Figure 9-207: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-208: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 7**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)**

Test Mode 10MHz BW LTE-Band 7 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2499.977	-17.97	-13.00	4.97
2569.997	-18.85	-13.00	5.85

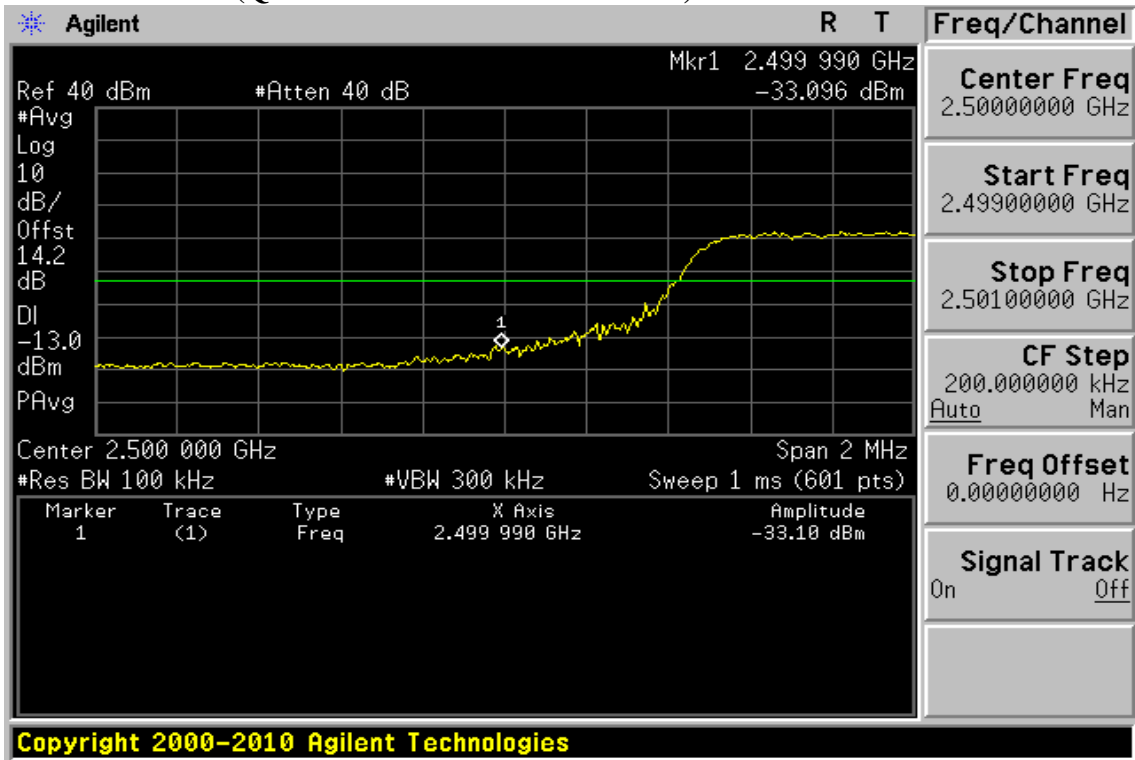
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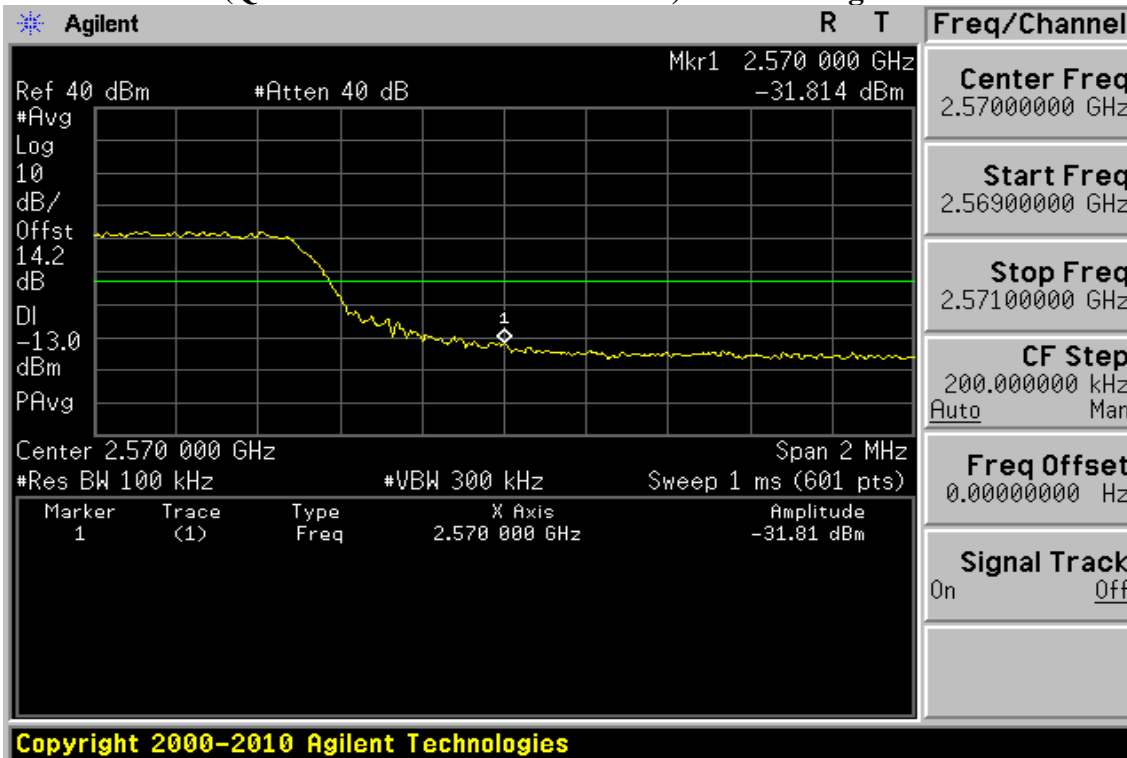
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**Figure 9-209: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-210: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 7**

(QPSK RB Number: 50 Offset: 0)

Test Mode                      10MHz BW LTE-Band 7      Engineer    :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2499.990	-33.10	-13.00	20.10
2570.000	-31.81	-13.00	18.81

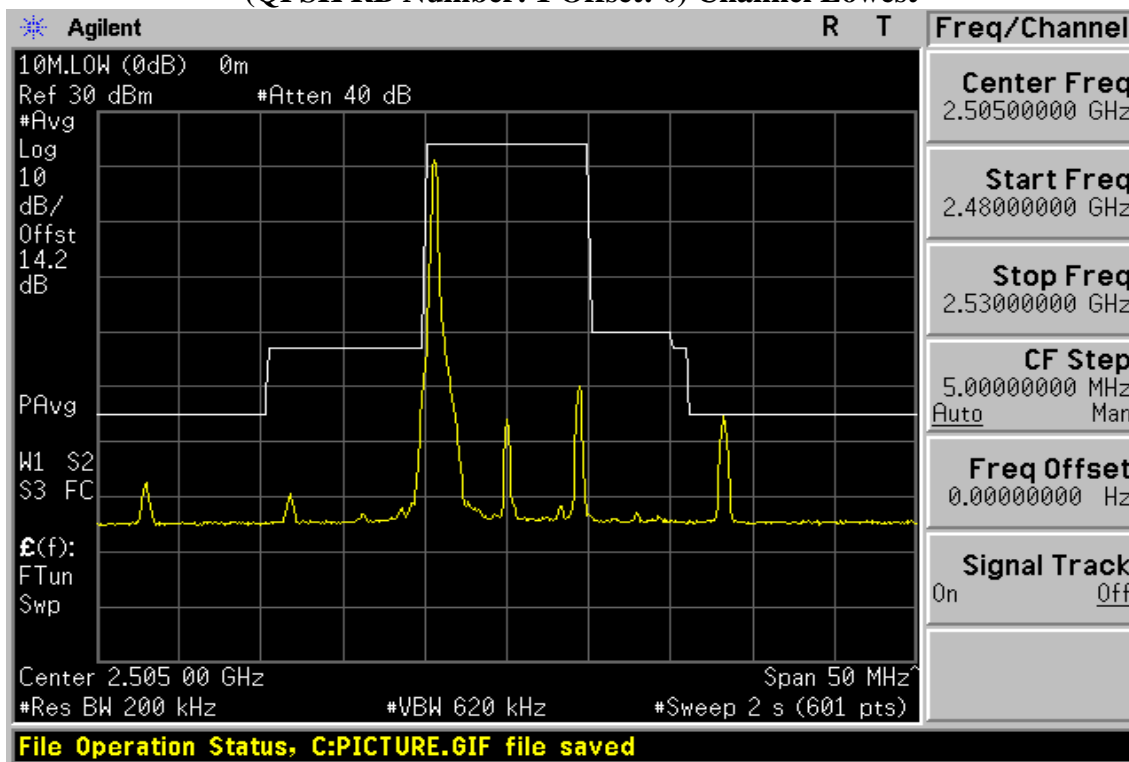
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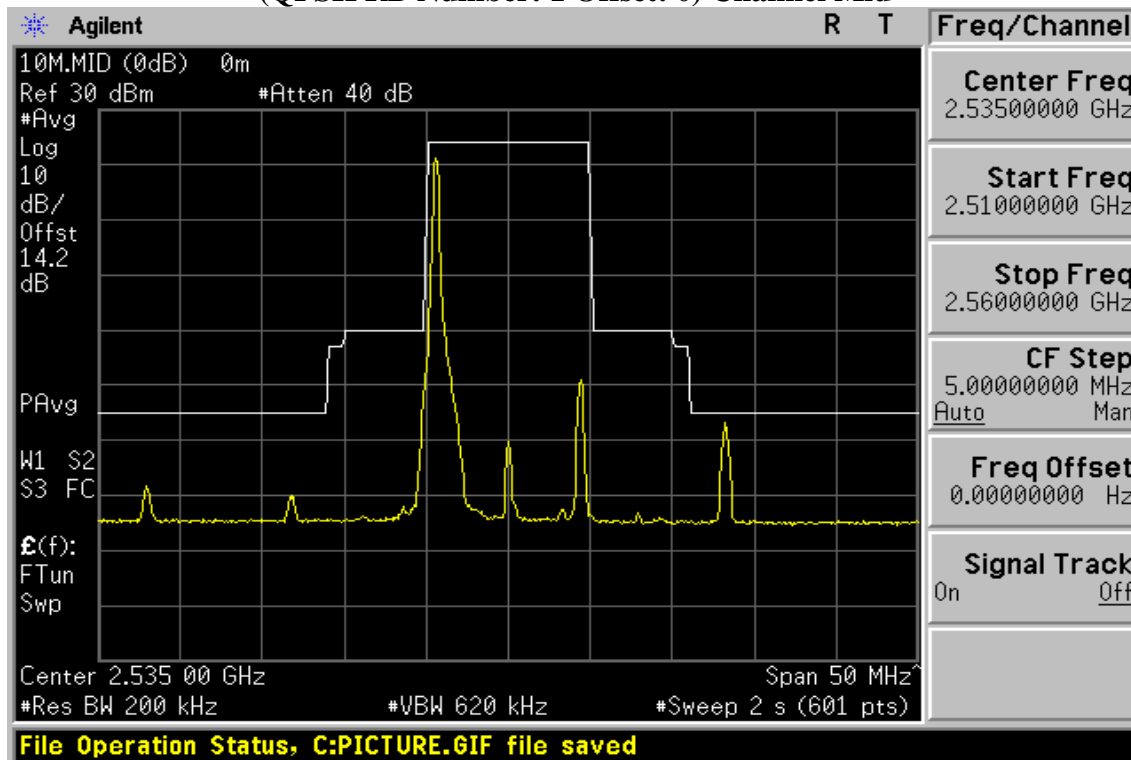
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**Figure 9-211: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-212: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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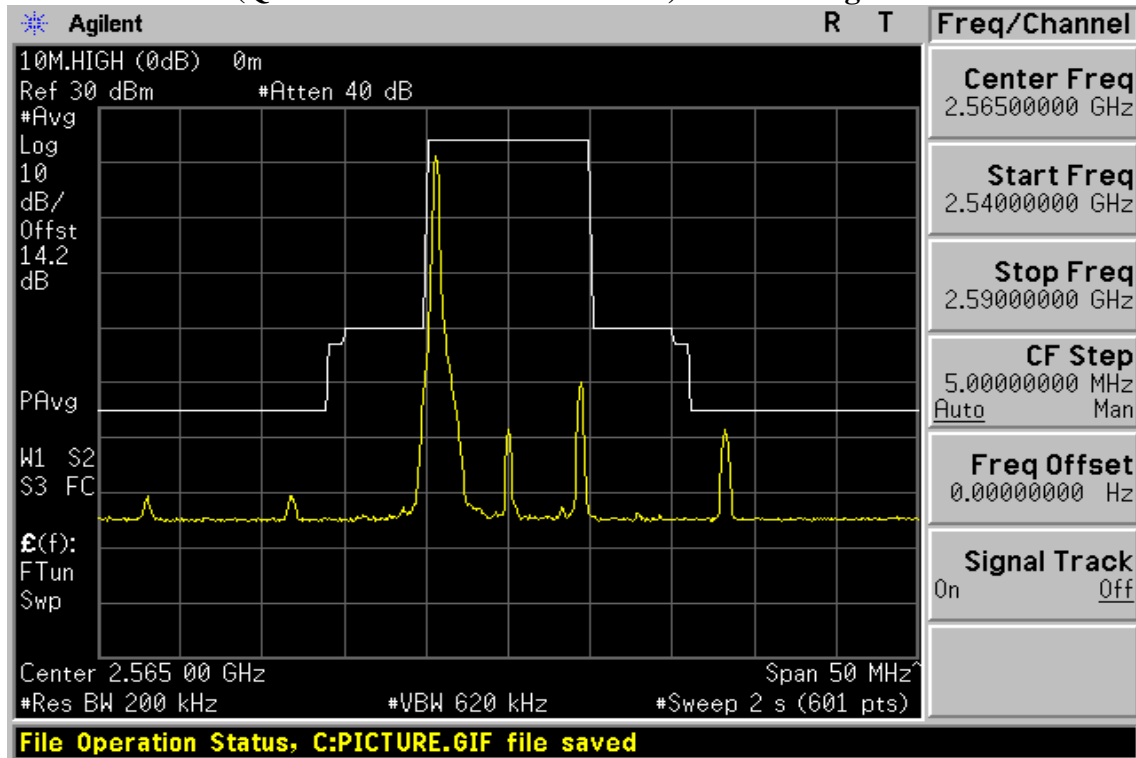
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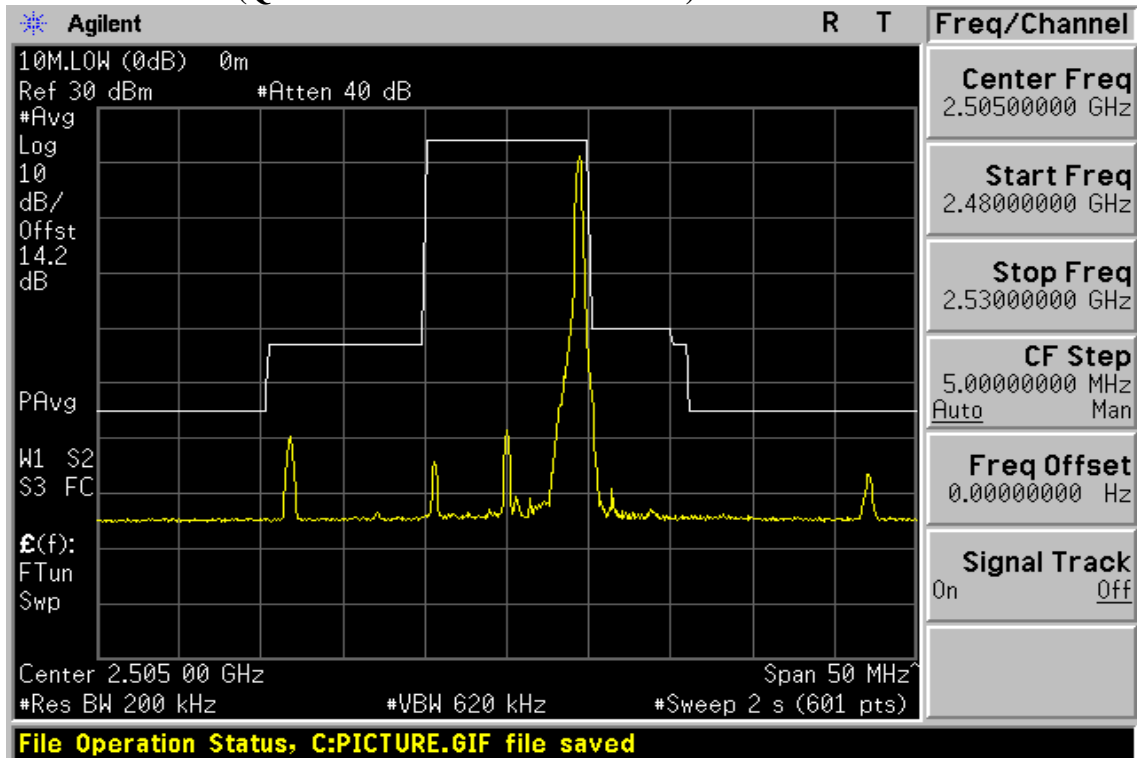
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**Figure 9-213: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest**



**Figure 9-214: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Lowest**



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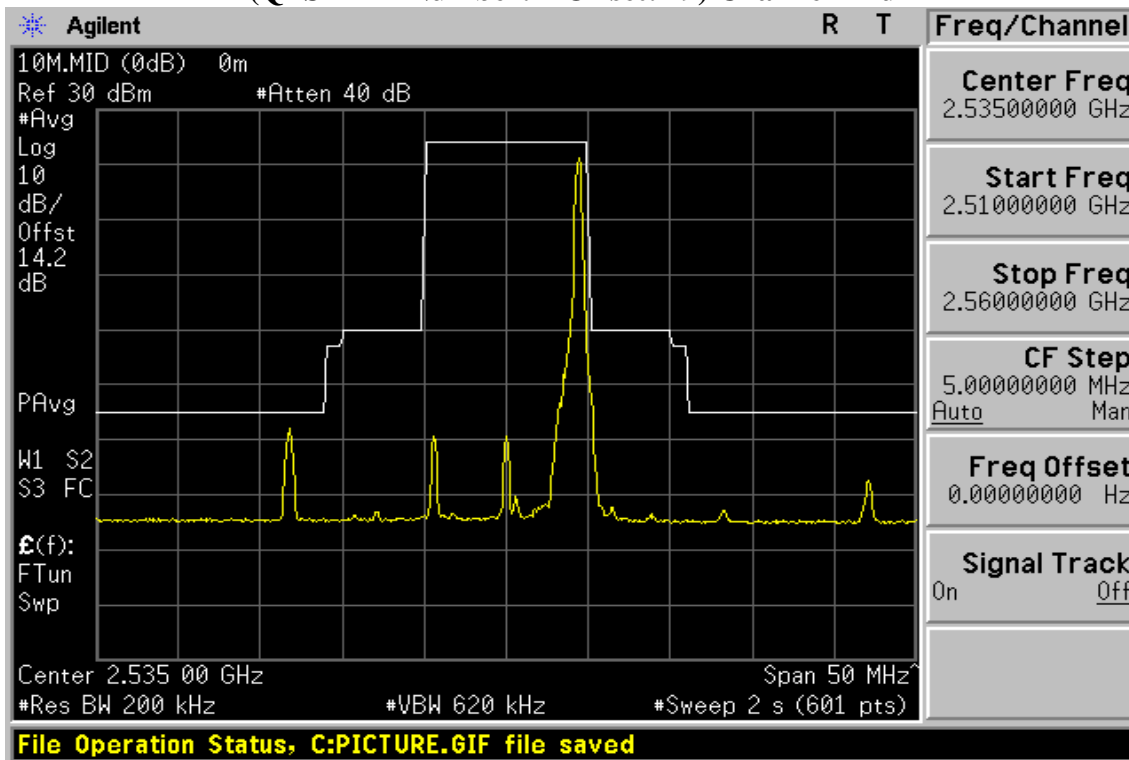
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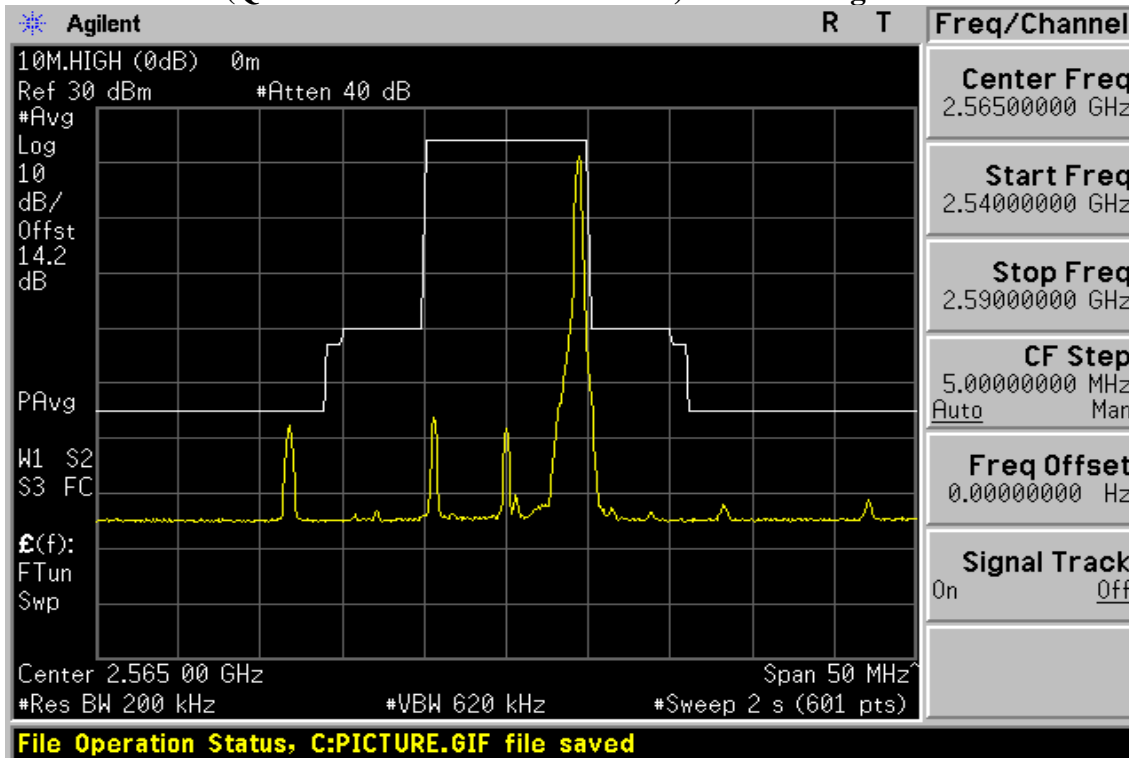
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**Figure 9-215: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Mid**



**Figure 9-216: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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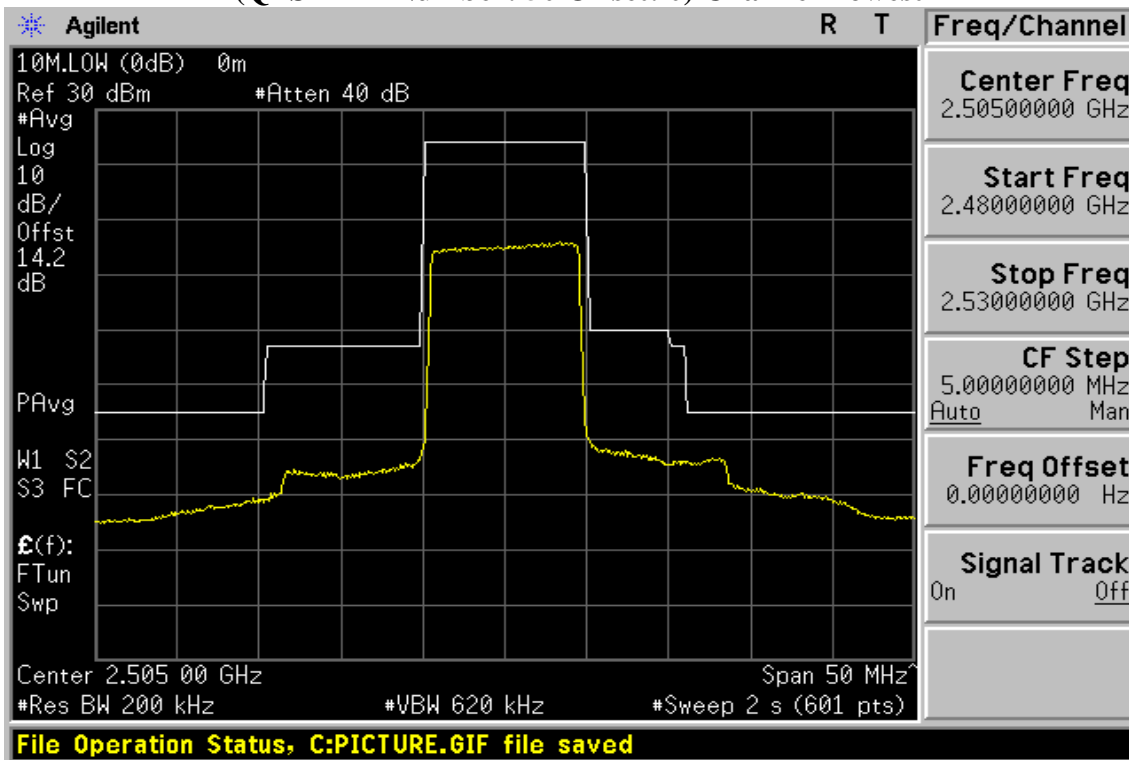
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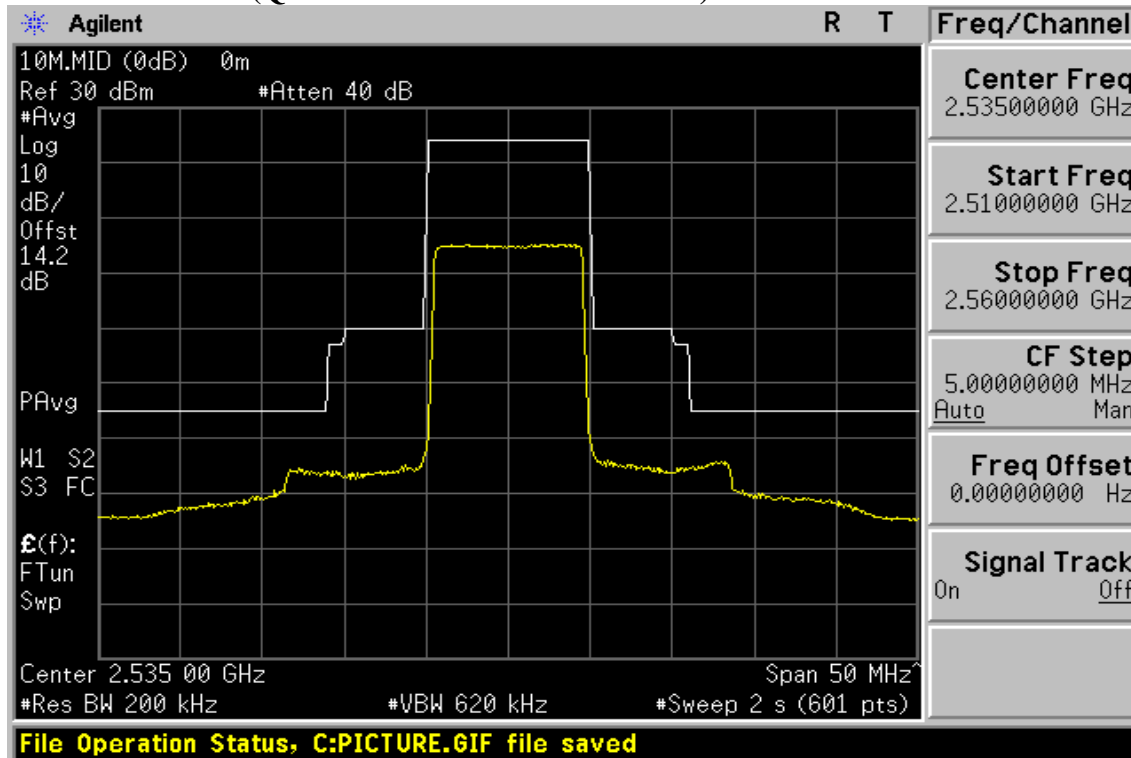
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**Figure 9-217: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-218: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Mid**



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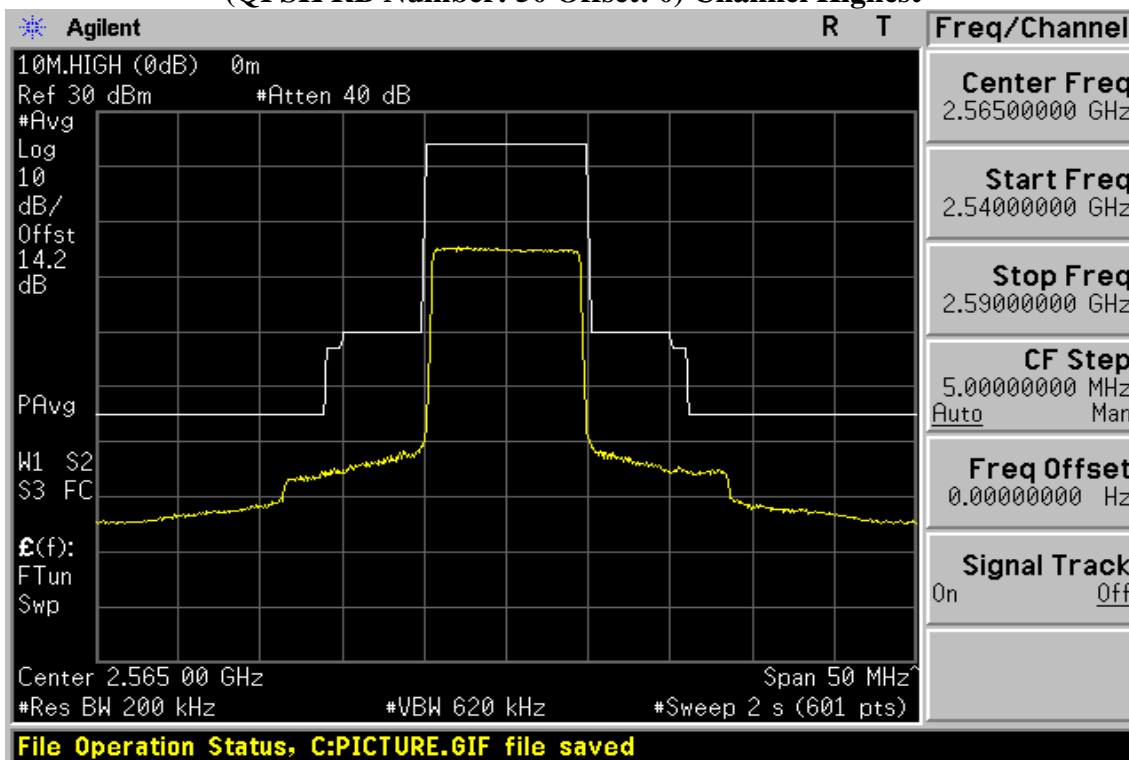
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**Figure 9-219: Emission MASK at antenna terminals –10MHz BW LTE-Band 7  
 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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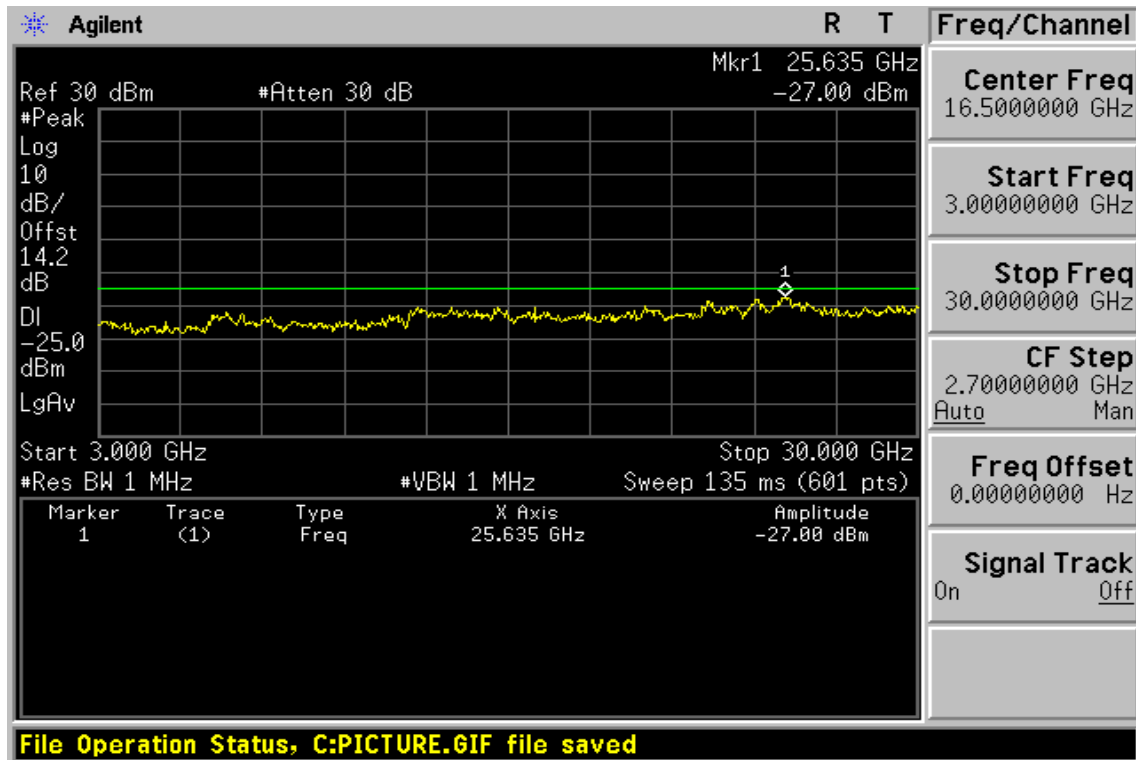
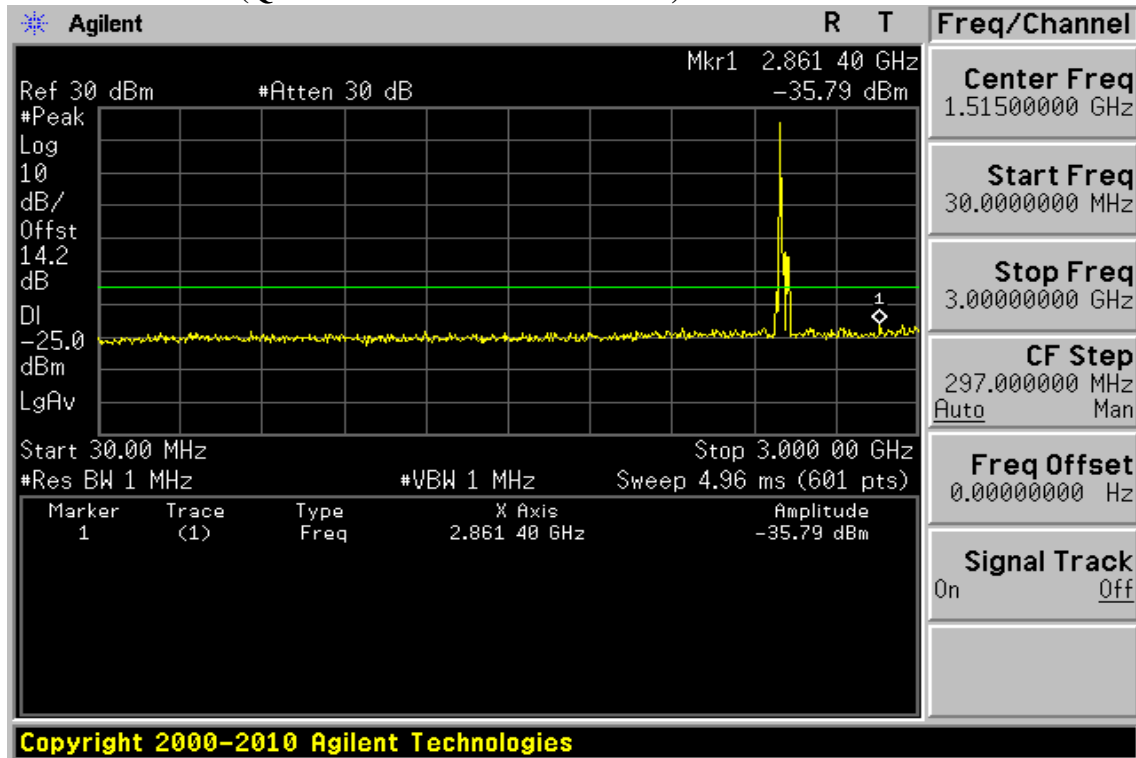
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**Figure 9-220: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

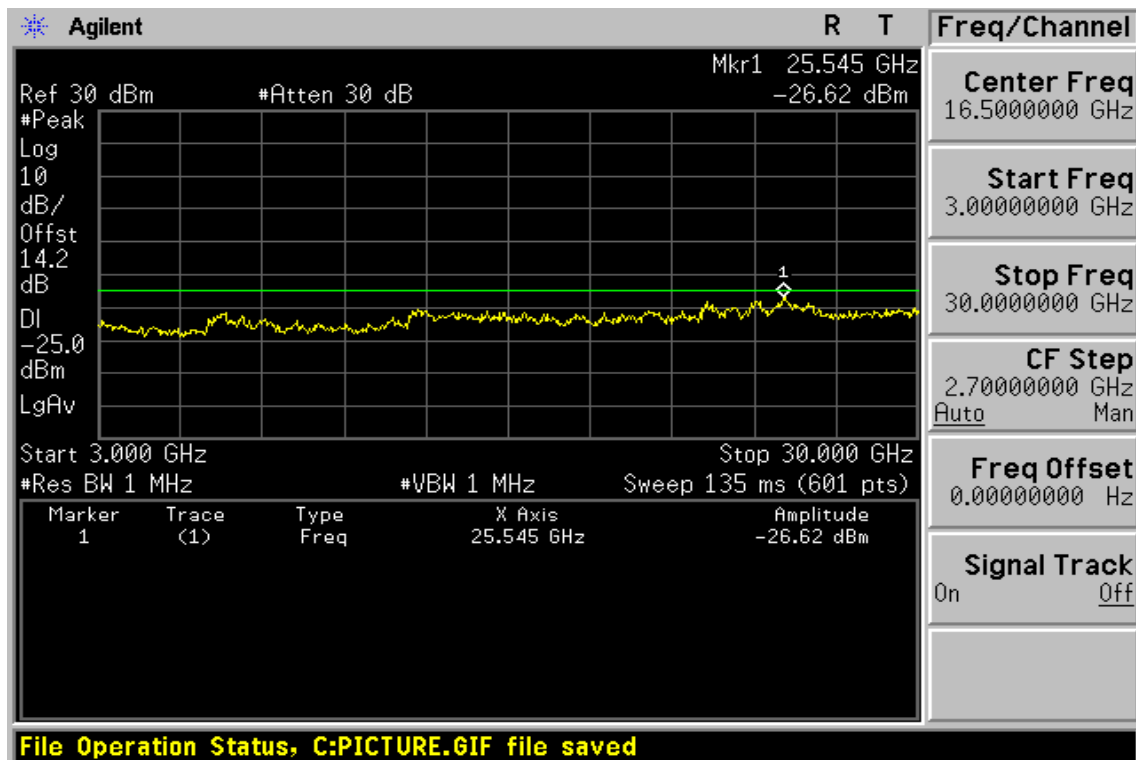
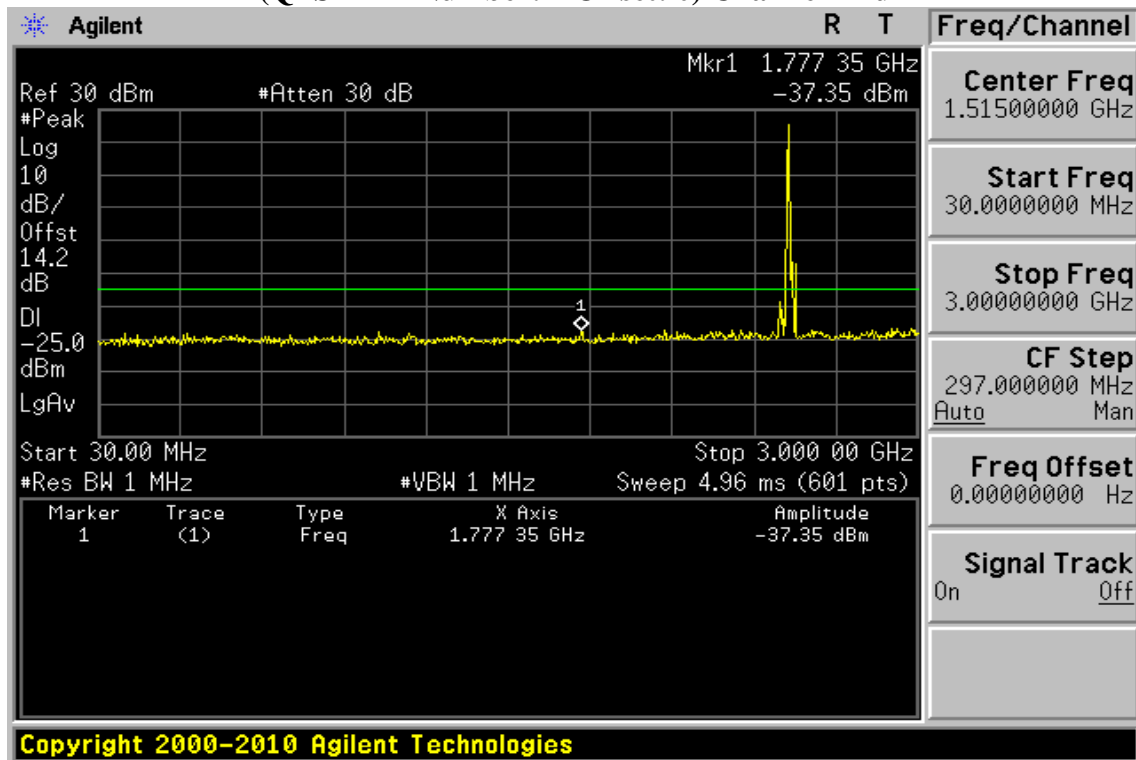


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**Figure 9-221: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid**

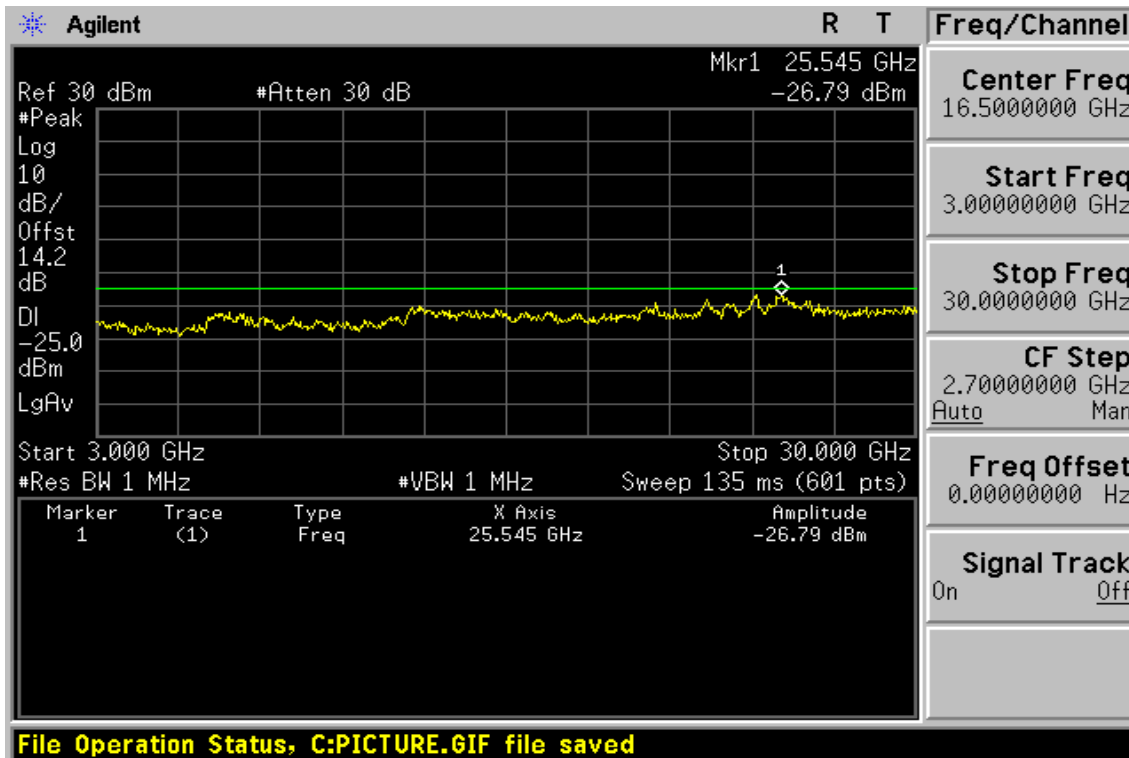
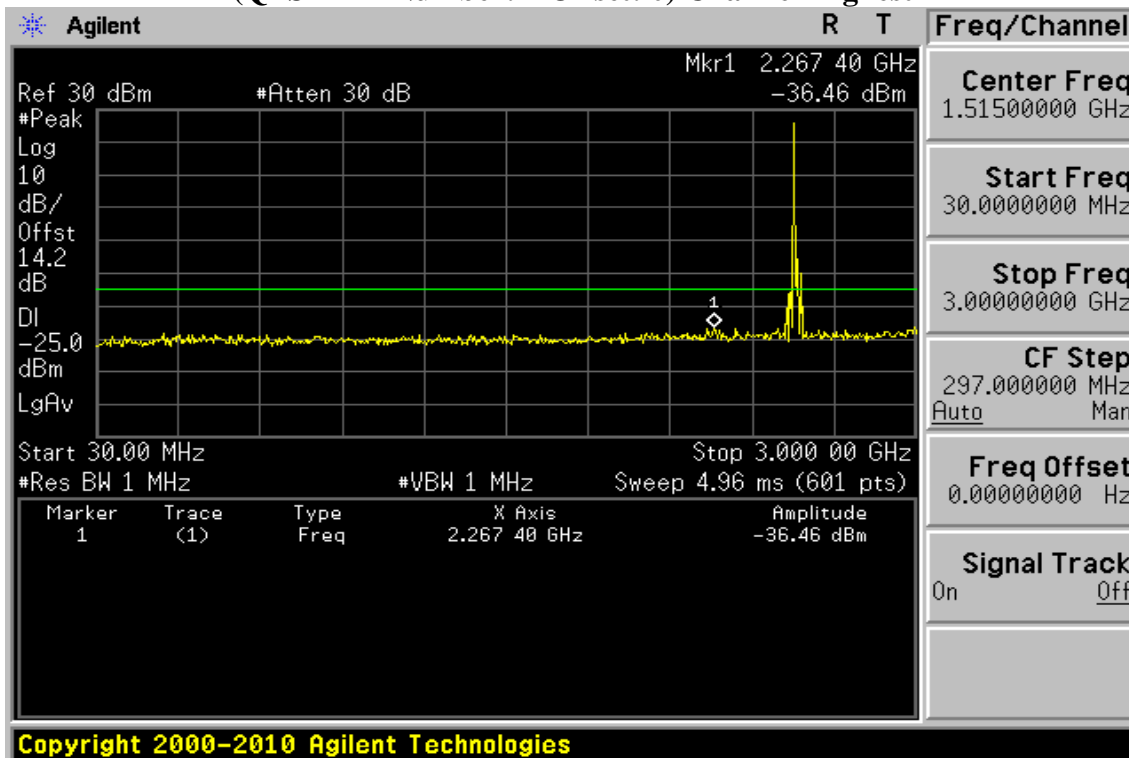


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**Figure 9-222: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –15MHz BW LTE-Band 7**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :2507.5 MHz Engineer :Marcus  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5015.00	H	---	-13.00	---
7522.50	H	---	-13.00	---
10030.00	H	---	-13.00	---
12537.50	H	---	-13.00	---
15045.00	H	---	-13.00	---
17552.50	H	---	-13.00	---
20060.00	H	---	-13.00	---
22567.50	H	---	-13.00	---
25075.00	H	---	-13.00	---
25635.00	S	-27	-13.00	14.00

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :2535 MHz Engineer :Marcus  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25545.00	S	-26.62	-13.00	13.62

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :2562.5MHz Engineer :Marcus  
 Operation Mode :TX High

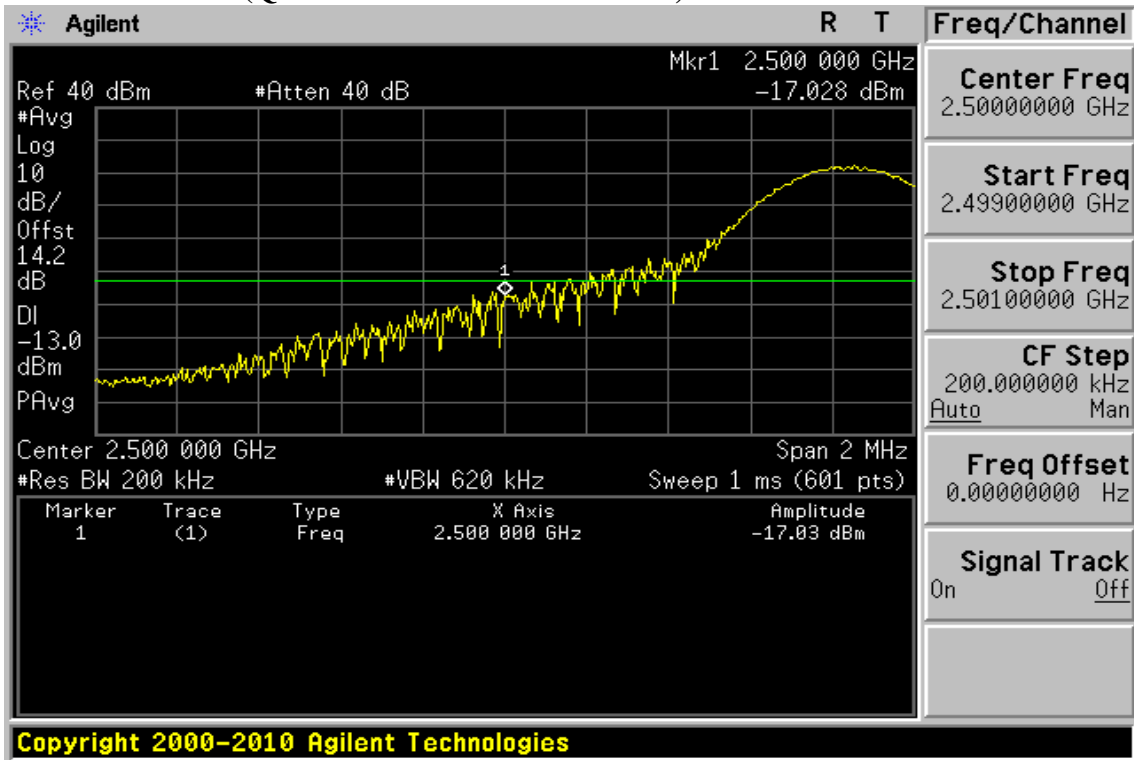
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5125.00	H	---	-13.00	---
7687.50	H	---	-13.00	---
10250.00	H	---	-13.00	---
12812.50	H	---	-13.00	---
15375.00	H	---	-13.00	---
17937.50	H	---	-13.00	---
20500.00	H	---	-13.00	---
23062.50	H	---	-13.00	---
25545.00	S	-26.79	-13.00	13.79
25625.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Spurious Freque

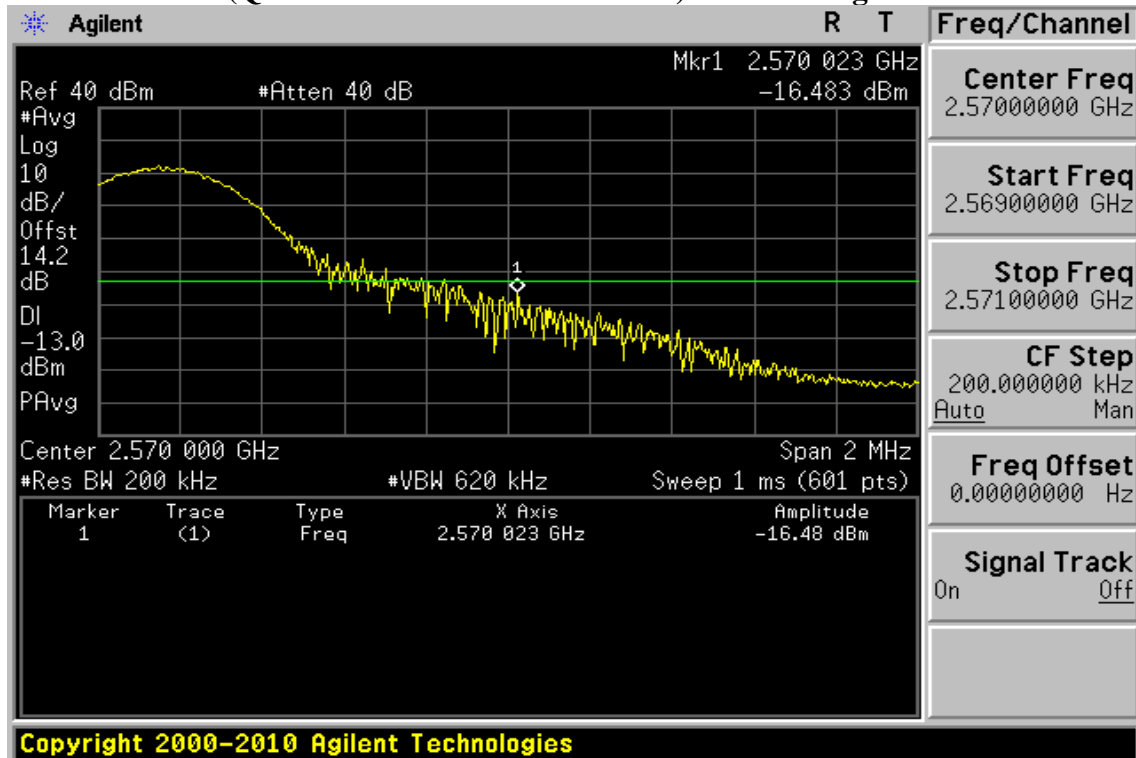
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**Figure 9-223: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-224 Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest**



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**Band edge emission at antenna terminals –15MHz BW LTE-Band 7**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 74)**

Test Mode 15MHz BW LTE-Band 7 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-17.03	-13.00	4.03
2570.023	-16.48	-13.00	3.48

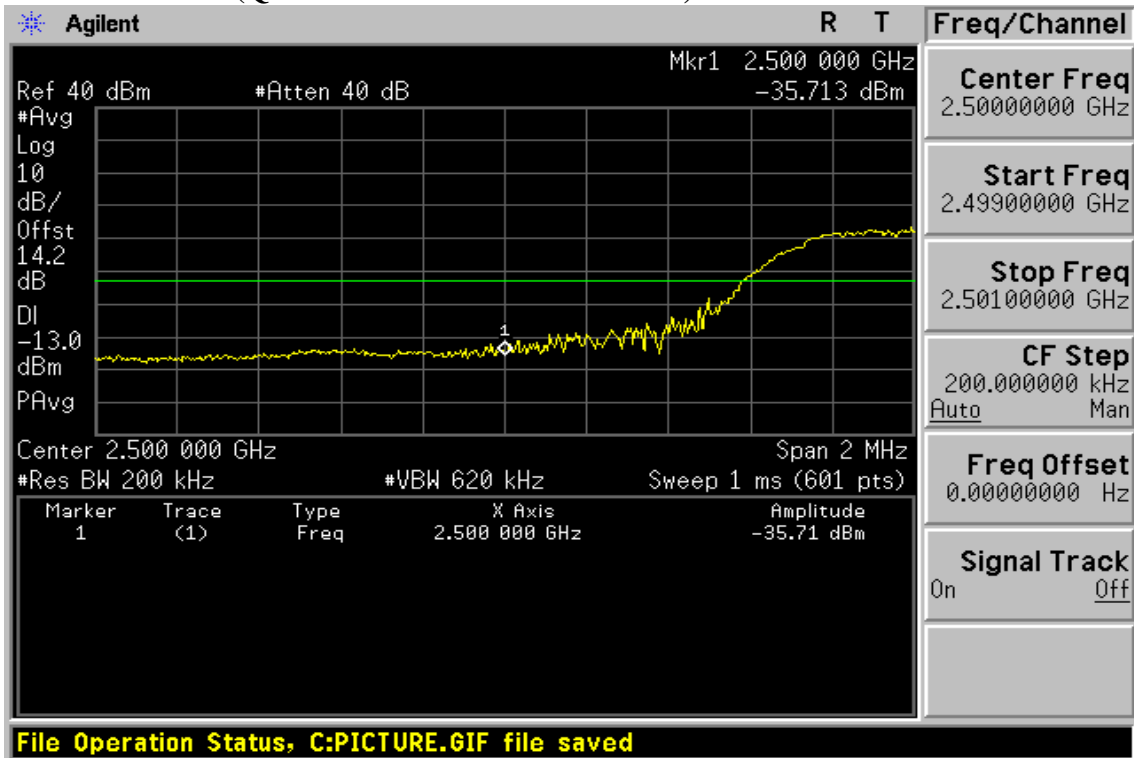
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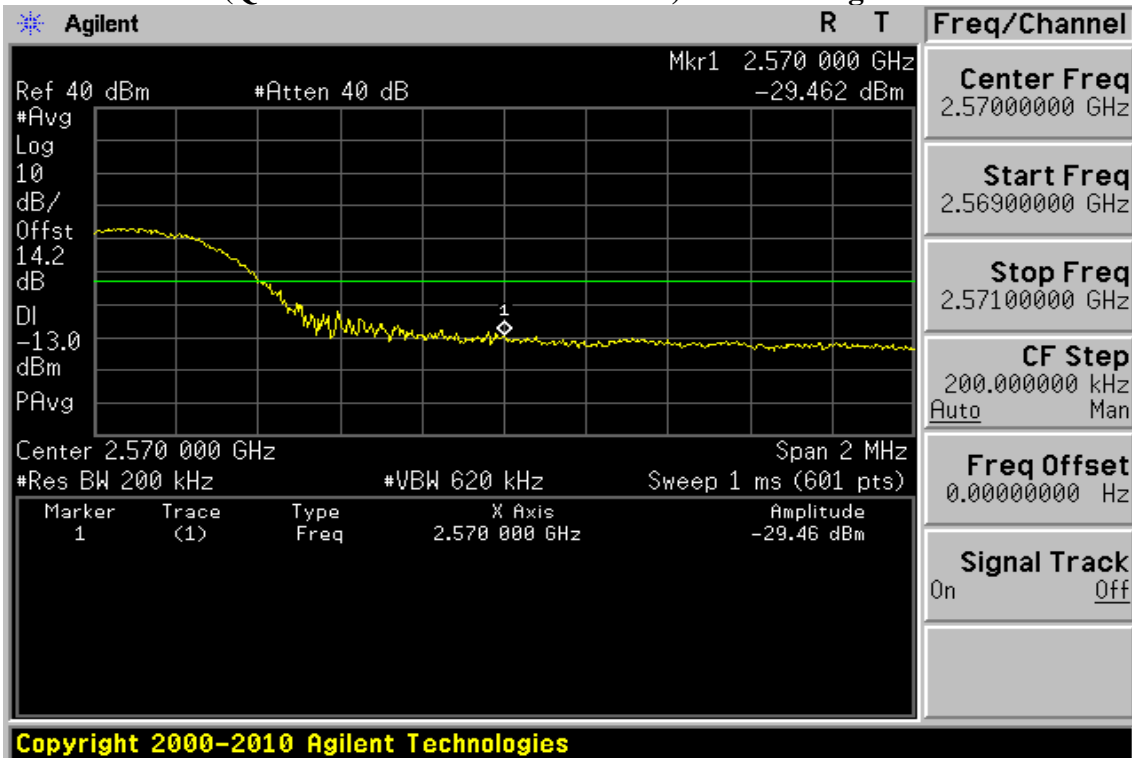
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**Figure 9-225: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Figure 9-226: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –15MHz BW LTE-Band 7**

(QPSK RB Number: 75 Offset: 0)

Test Mode                      15MHz BW LTE-Band 7      Engineer    :Marcus

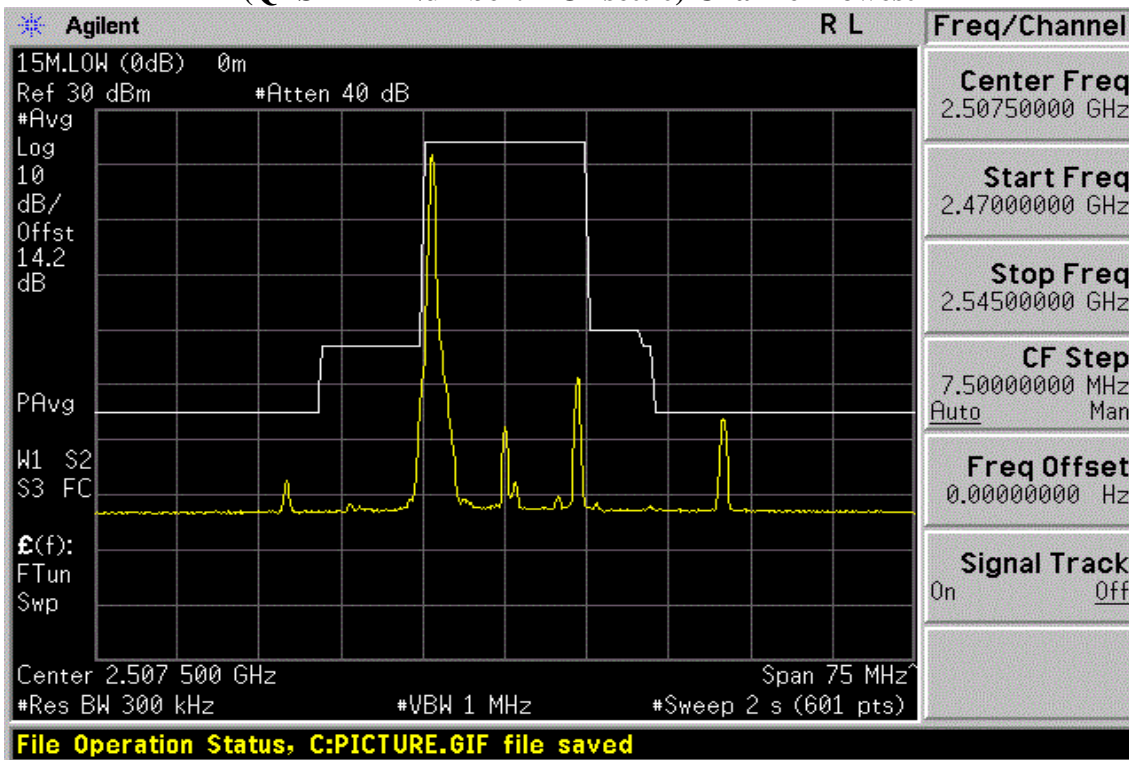
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-35.71	-13.00	22.71
2570.000	-29.46	-13.00	16.46

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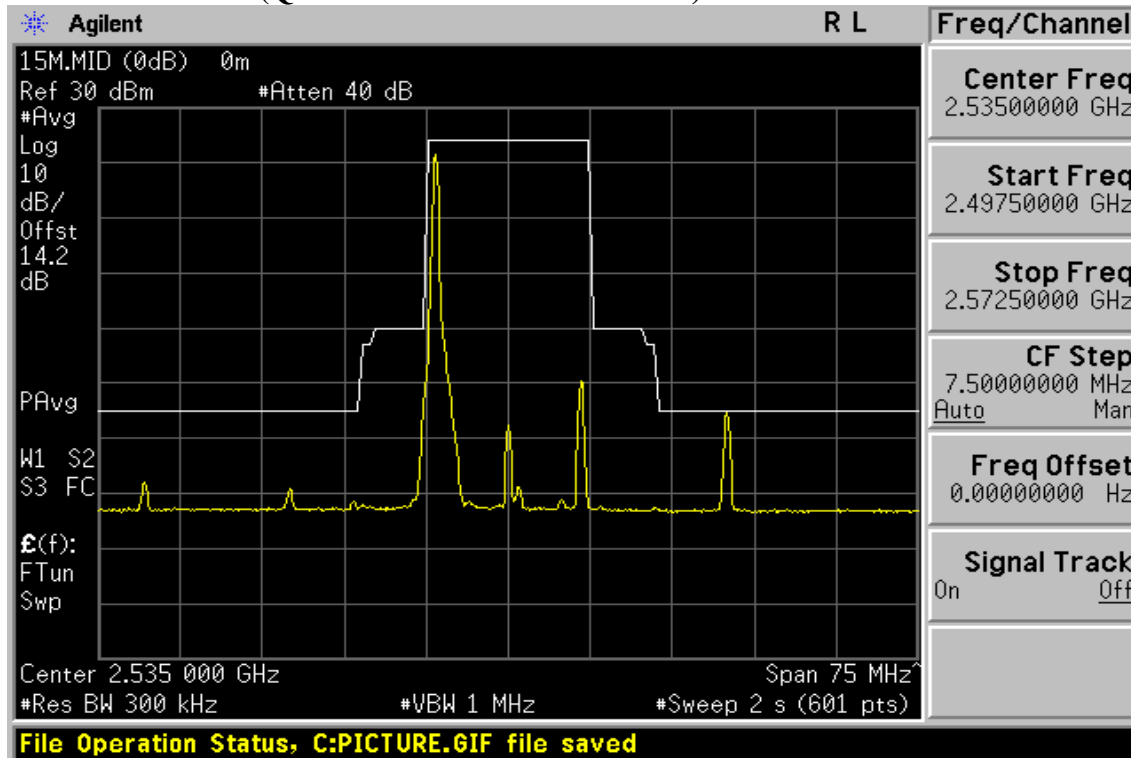
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**Figure 9-227: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-228: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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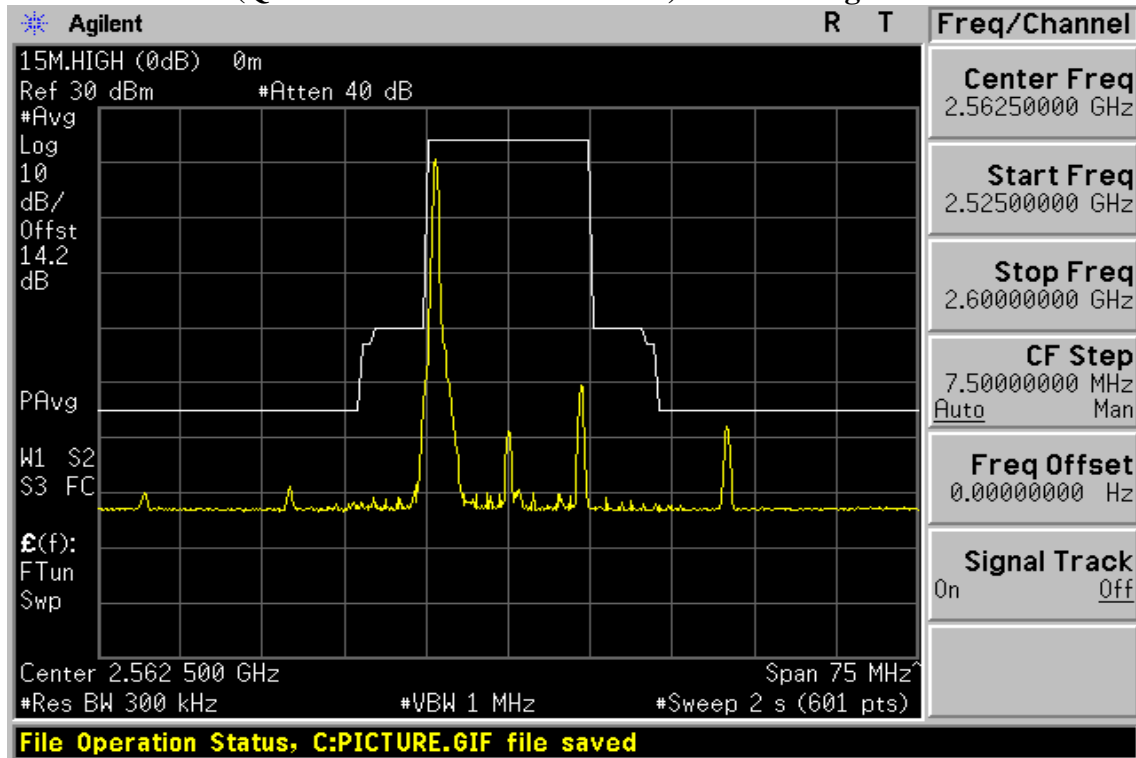
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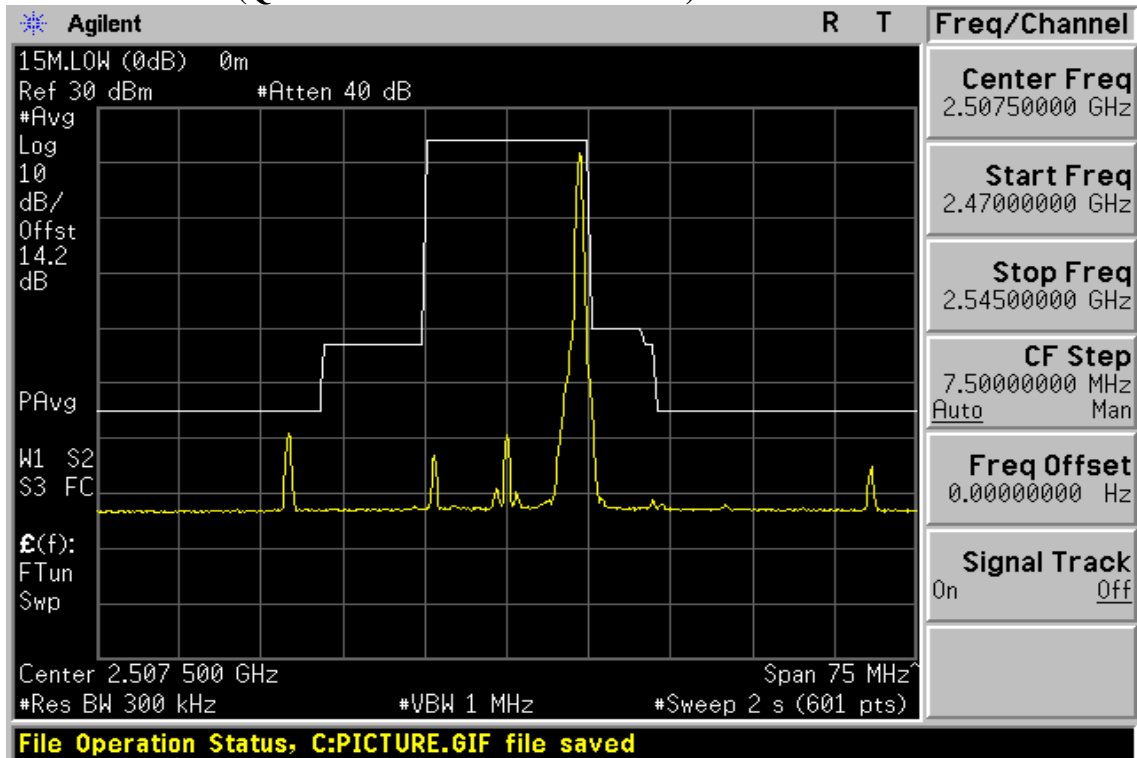
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**Figure 9-229: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest**



**Figure 9-230: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Lowest**



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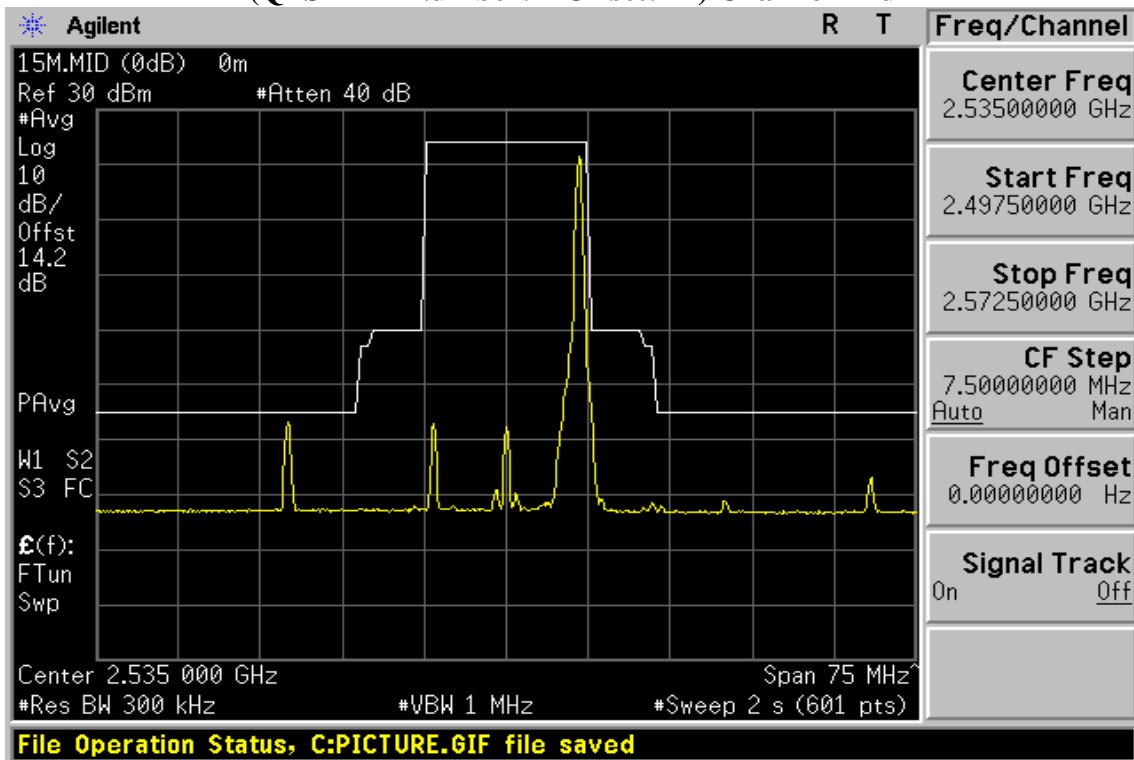
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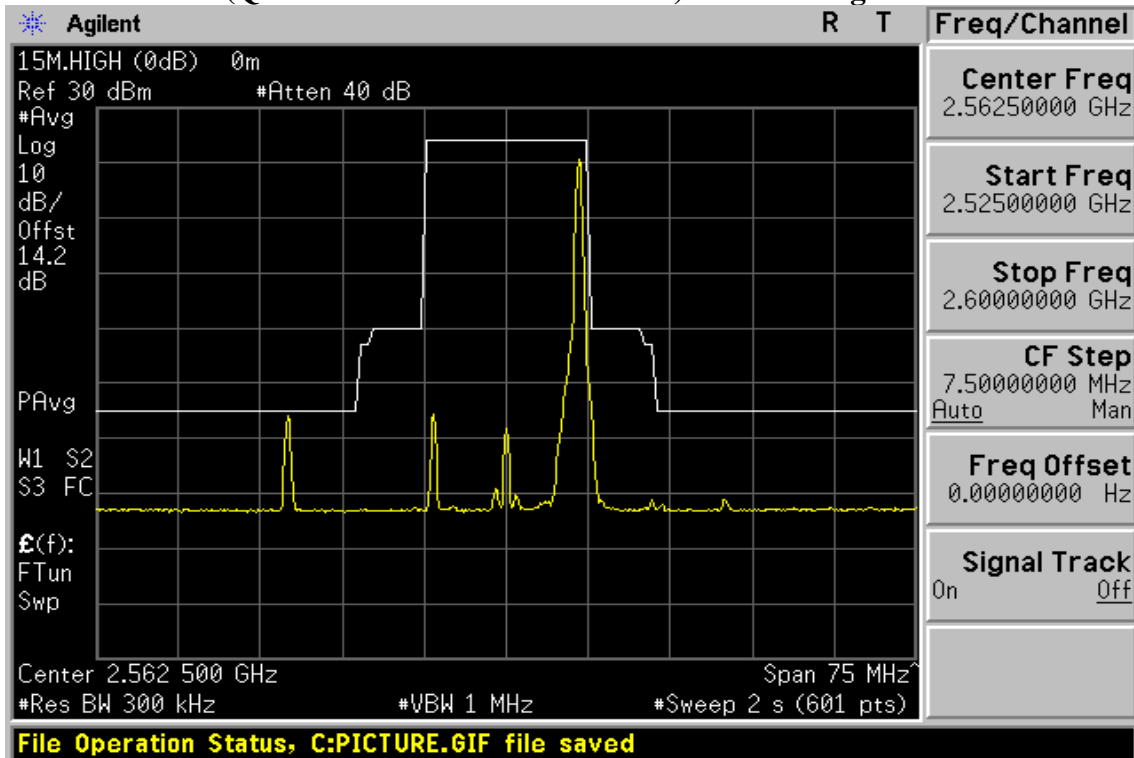
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**Figure 9-231: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Mid**



**Figure 9-232: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest**



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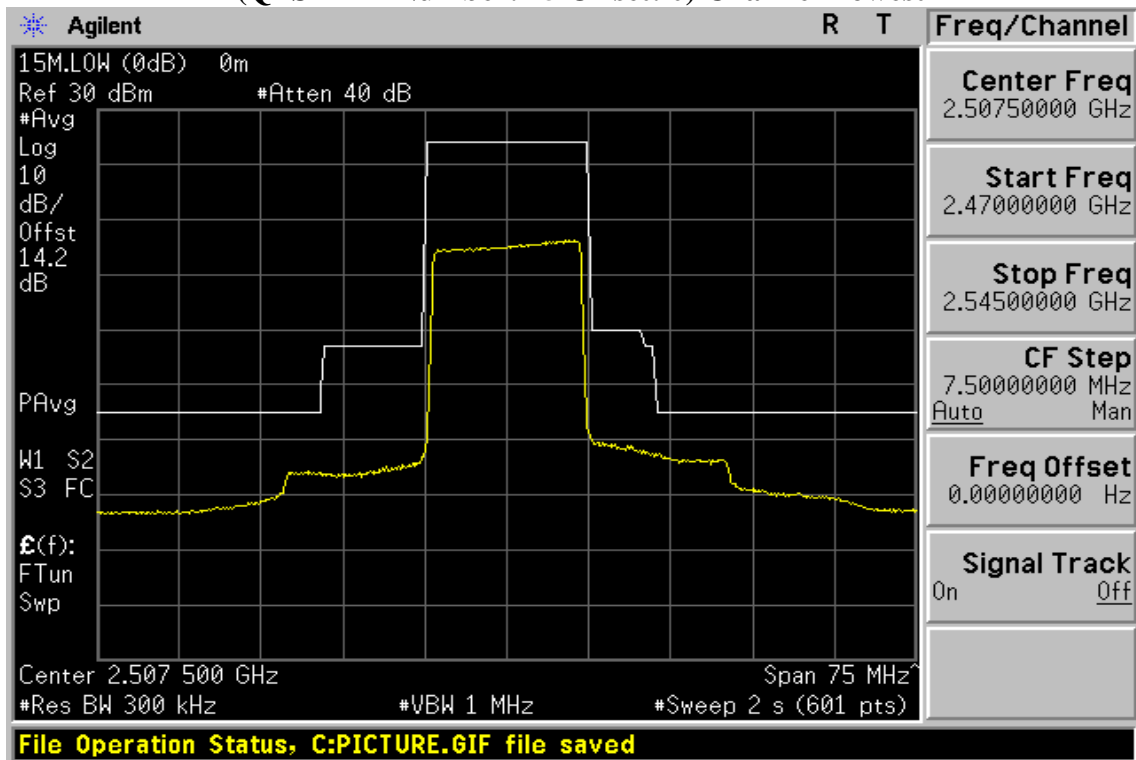
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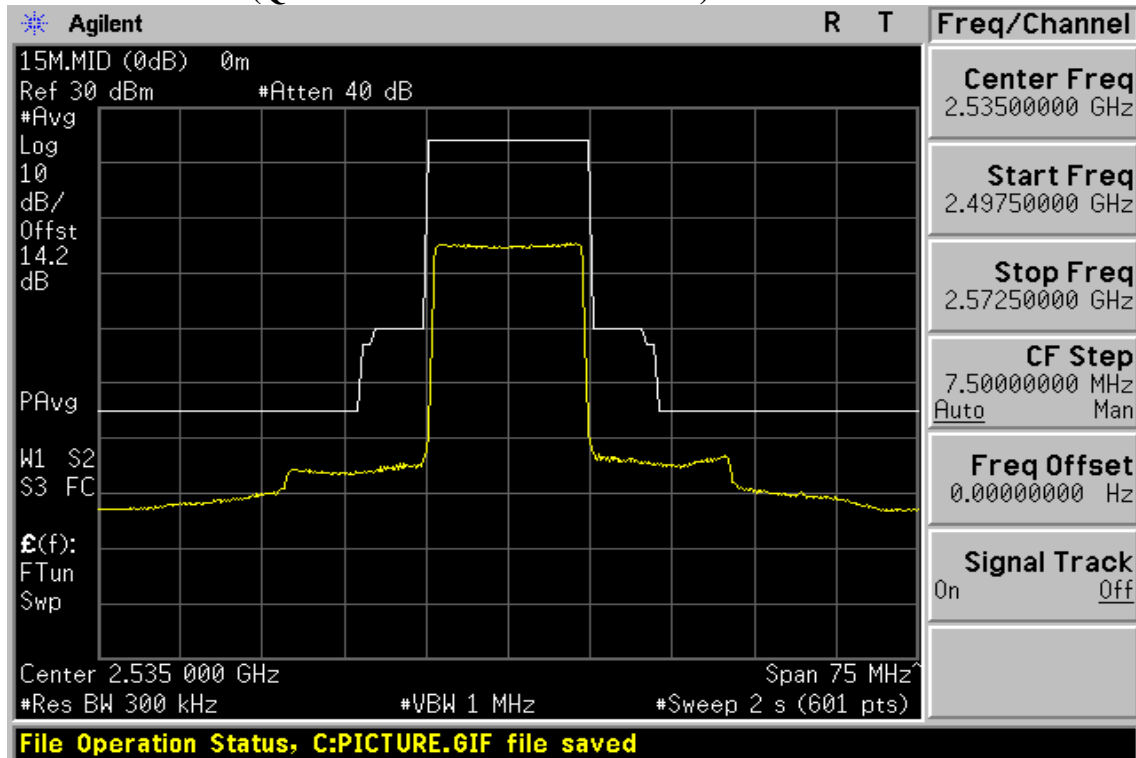
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**Figure 9-233: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Figure 9-234: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Mid**



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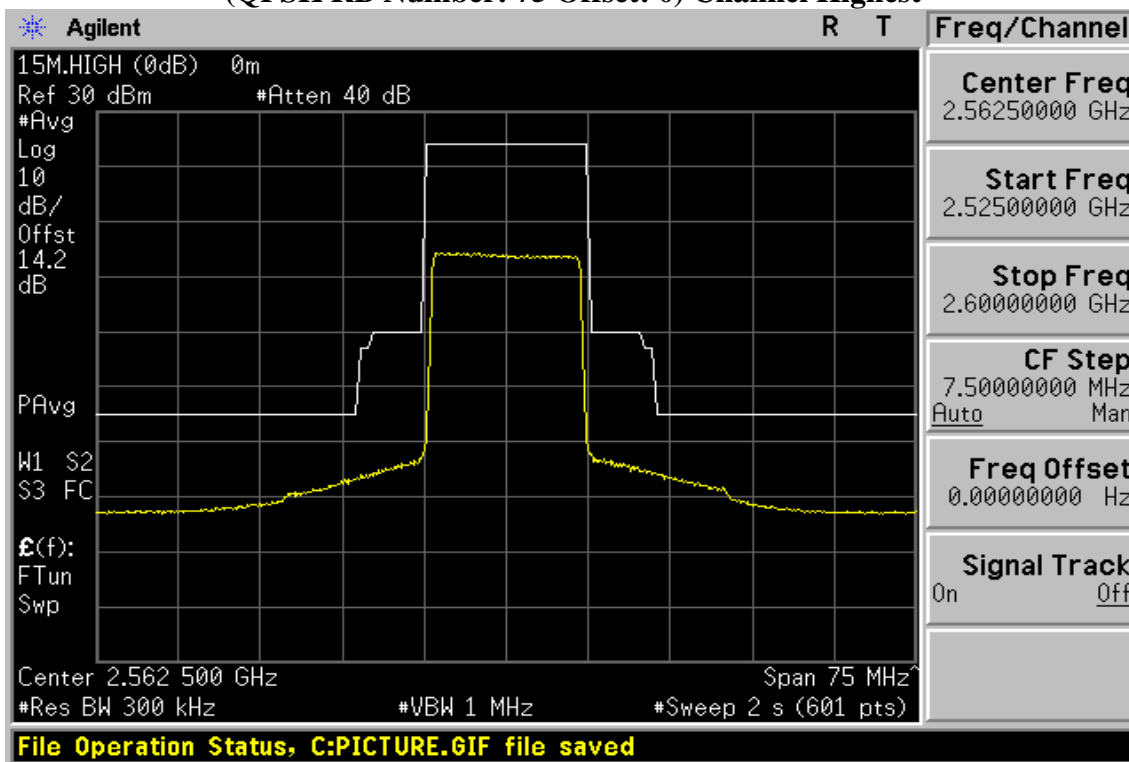
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**Figure 9-235: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest**



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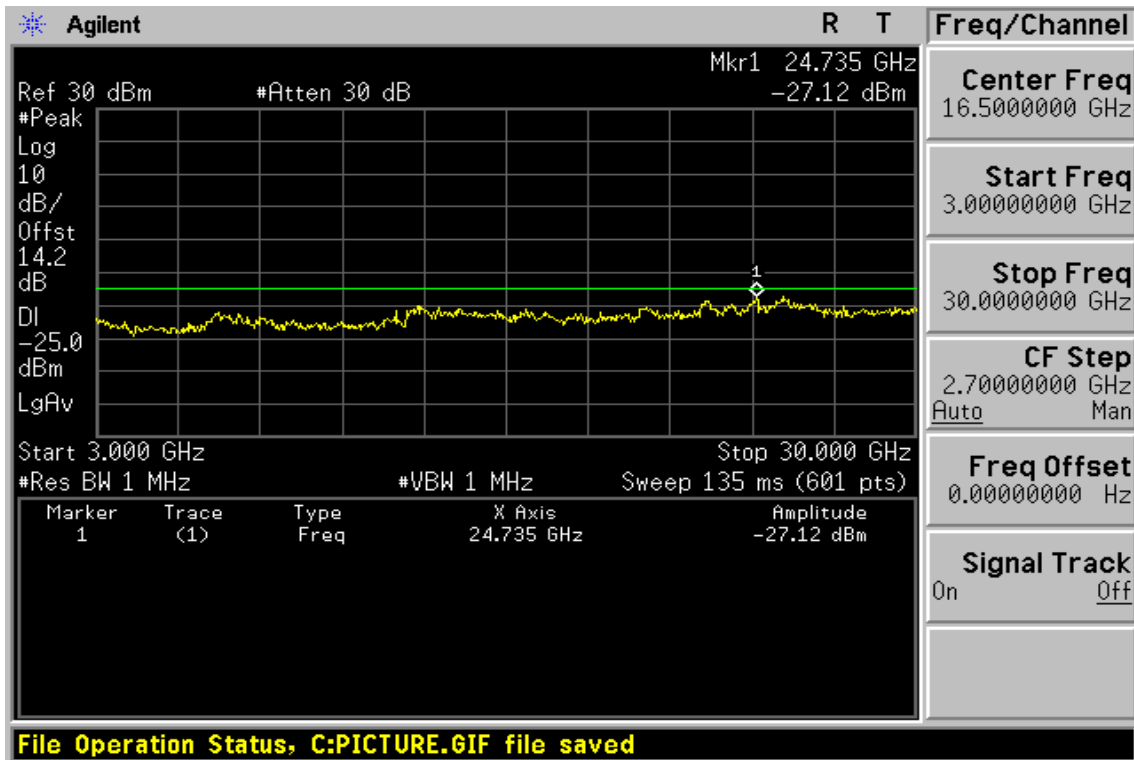
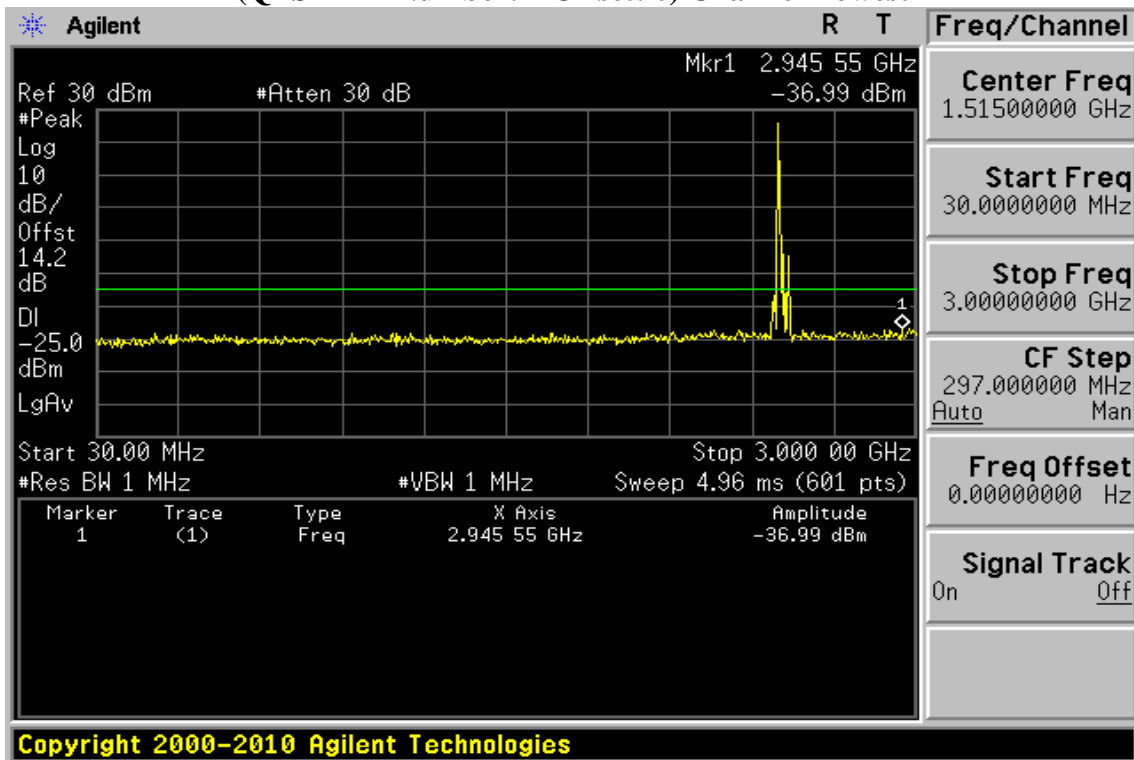
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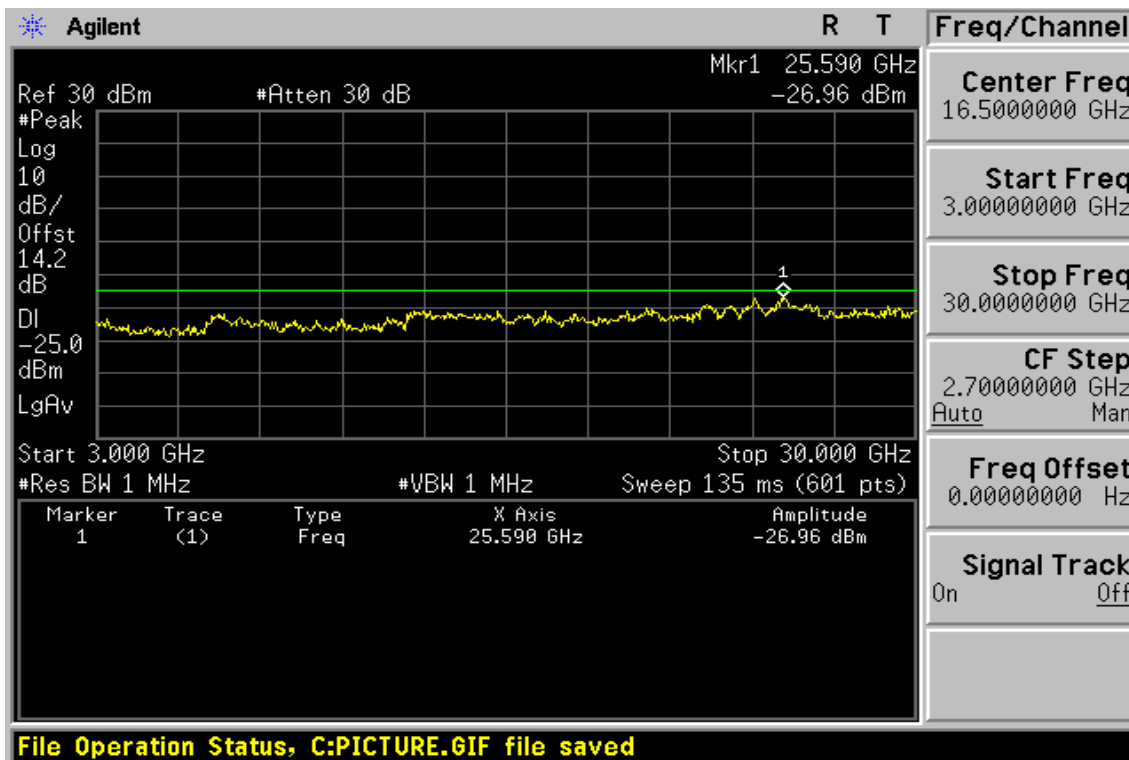
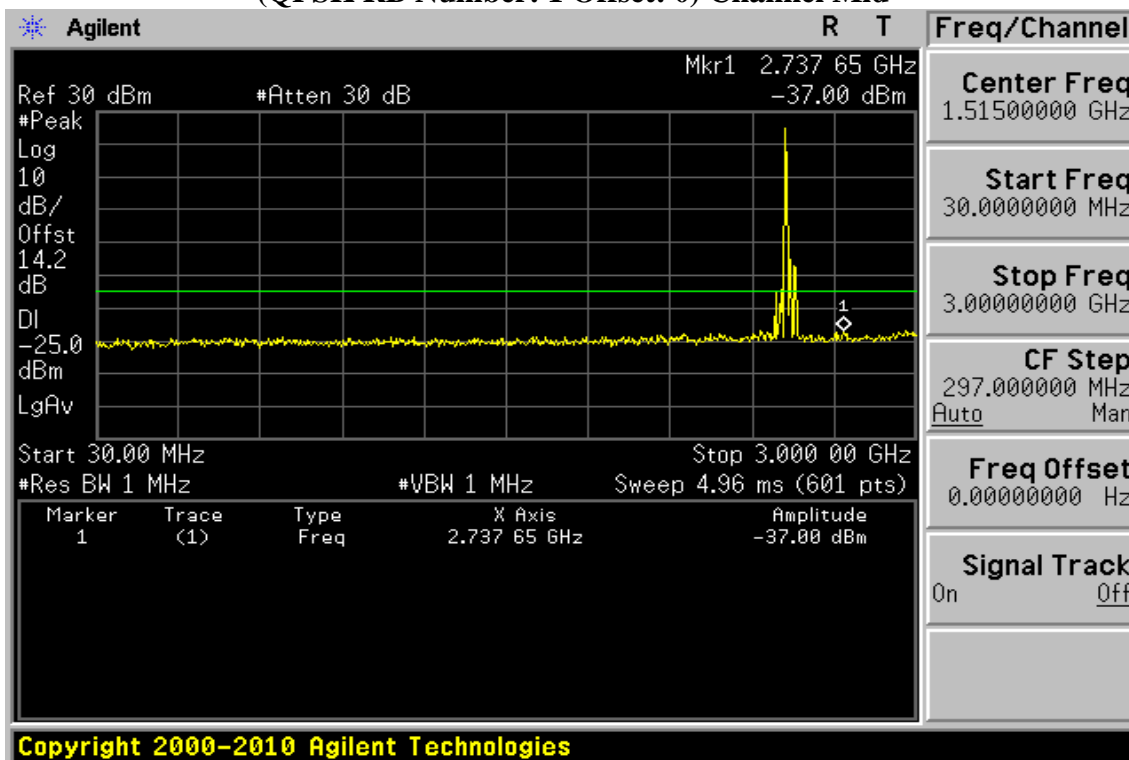
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**Figure 9-236: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 9-237: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid**

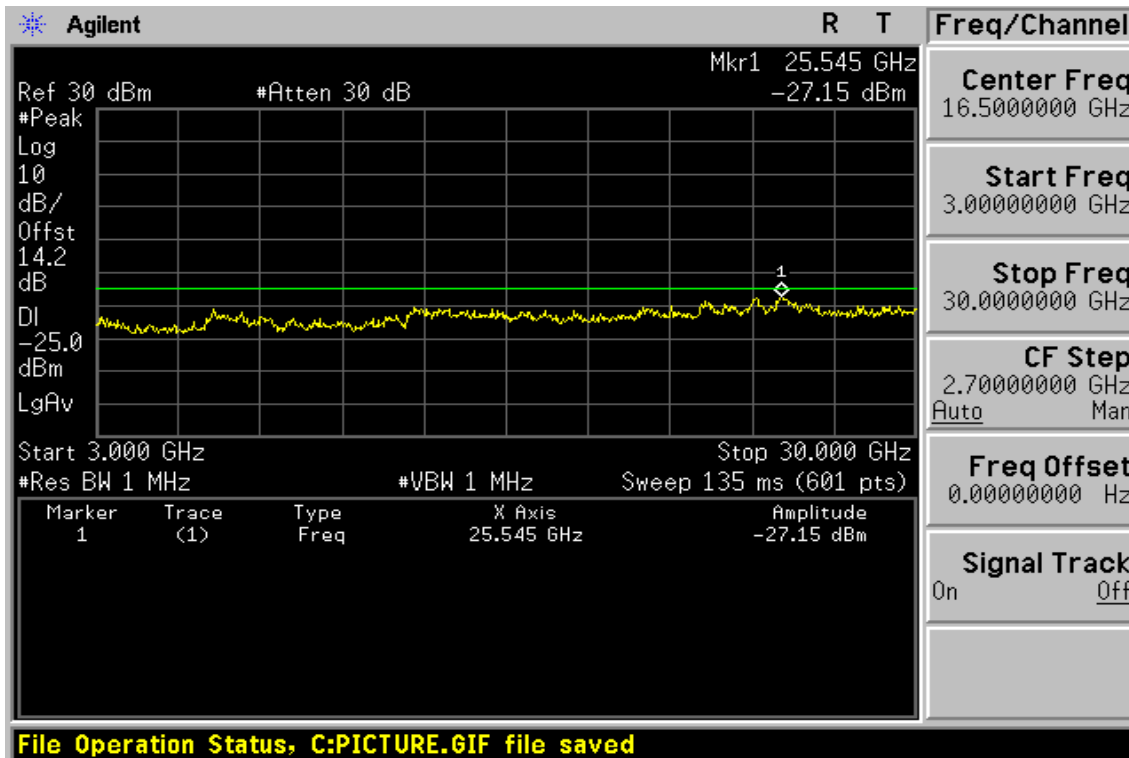
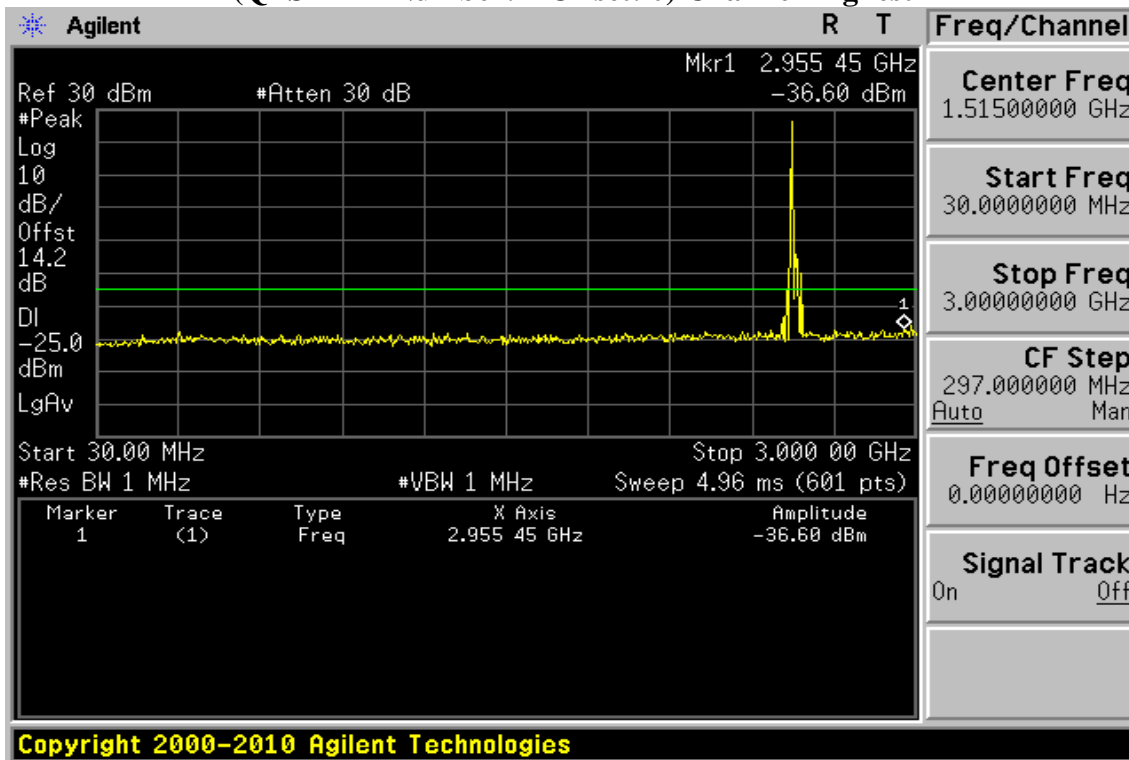


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**Figure 9-238: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –20MHz BW LTE-Band 7**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :2510 MHz Engineer :Marcus  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5020.00	H	---	-13.00	---
7530.00	H	---	-13.00	---
10040.00	H	---	-13.00	---
12550.00	H	---	-13.00	---
15060.00	H	---	-13.00	---
17570.00	H	---	-13.00	---
20080.00	H	---	-13.00	---
22590.00	H	---	-13.00	---
24735.00	S	-27.12	-13.00	14.12
25100.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :2535 MHz Engineer :Marcus  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25590.00	S	-26.95	-13.00	13.95

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :2560MHz Engineer :Marcus  
 Operation Mode :TX High

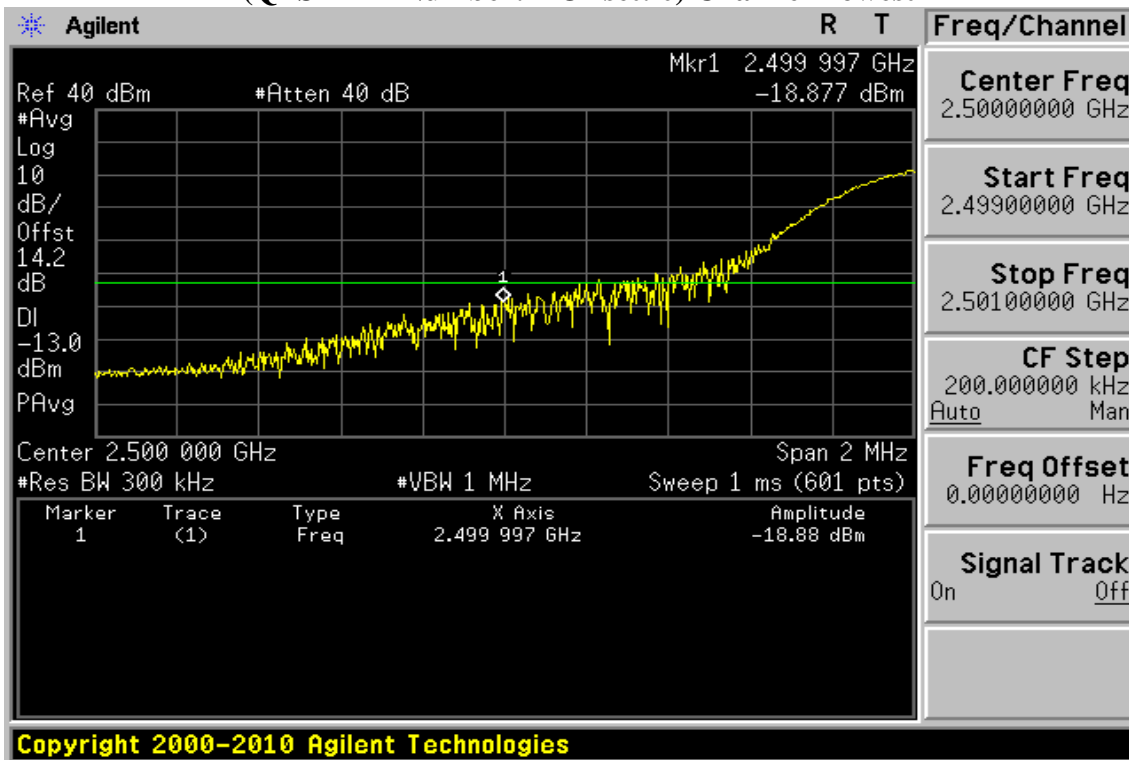
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
5120.00	H	---	-13.00	---
7680.00	H	---	-13.00	---
10240.00	H	---	-13.00	---
12800.00	H	---	-13.00	---
15360.00	H	---	-13.00	---
17920.00	H	---	-13.00	---
20480.00	H	---	-13.00	---
23040.00	H	---	-13.00	---
25545.00	S	-27.15	-13.00	14.15
25600.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Spurious Freque

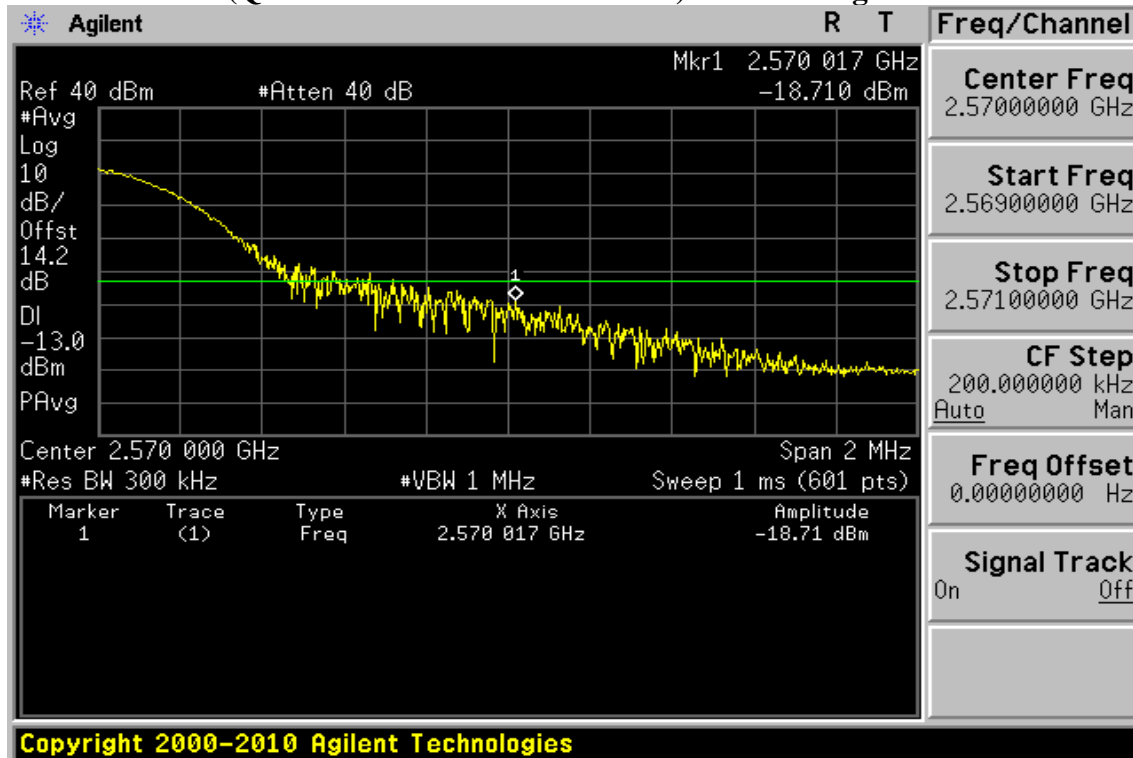
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**Figure 9-239: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-240: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest**



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**Band edge emission at antenna terminals –20MHz BW LTE-Band 7**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99)**

Test Mode 20MHz BW LTE-Band 7 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2499.997	-18.88	-13.00	5.88
2570.017	-18.71	-13.00	5.71

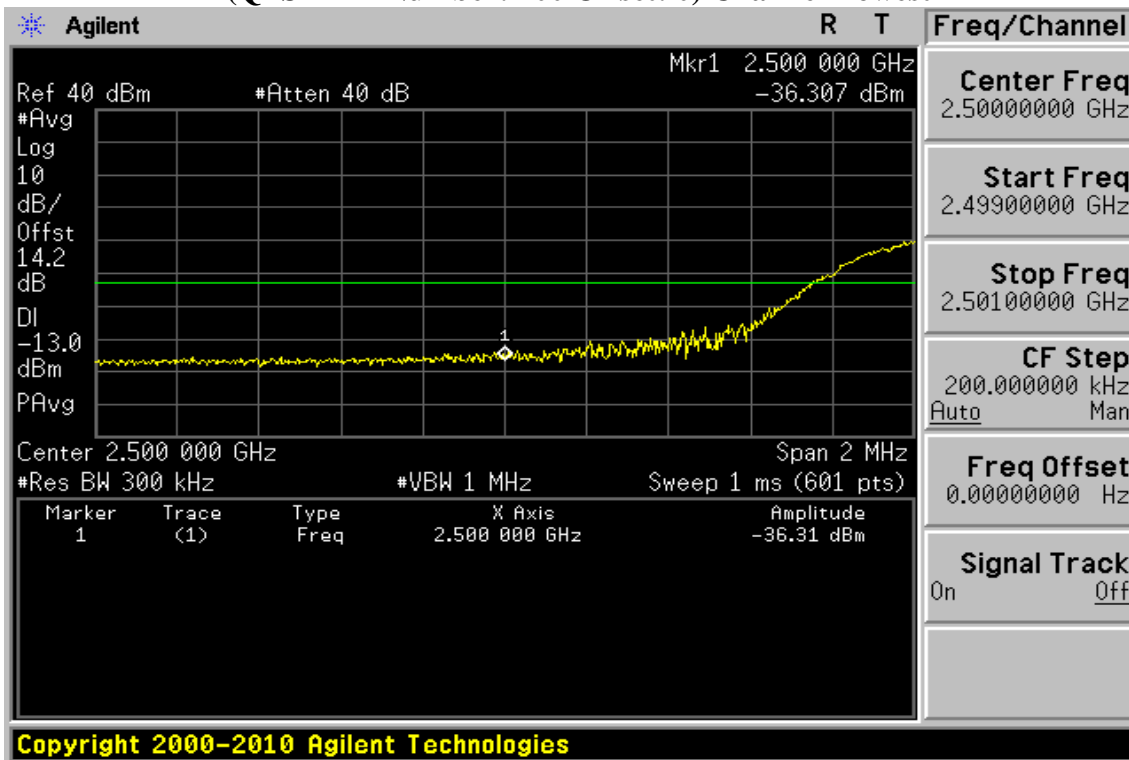
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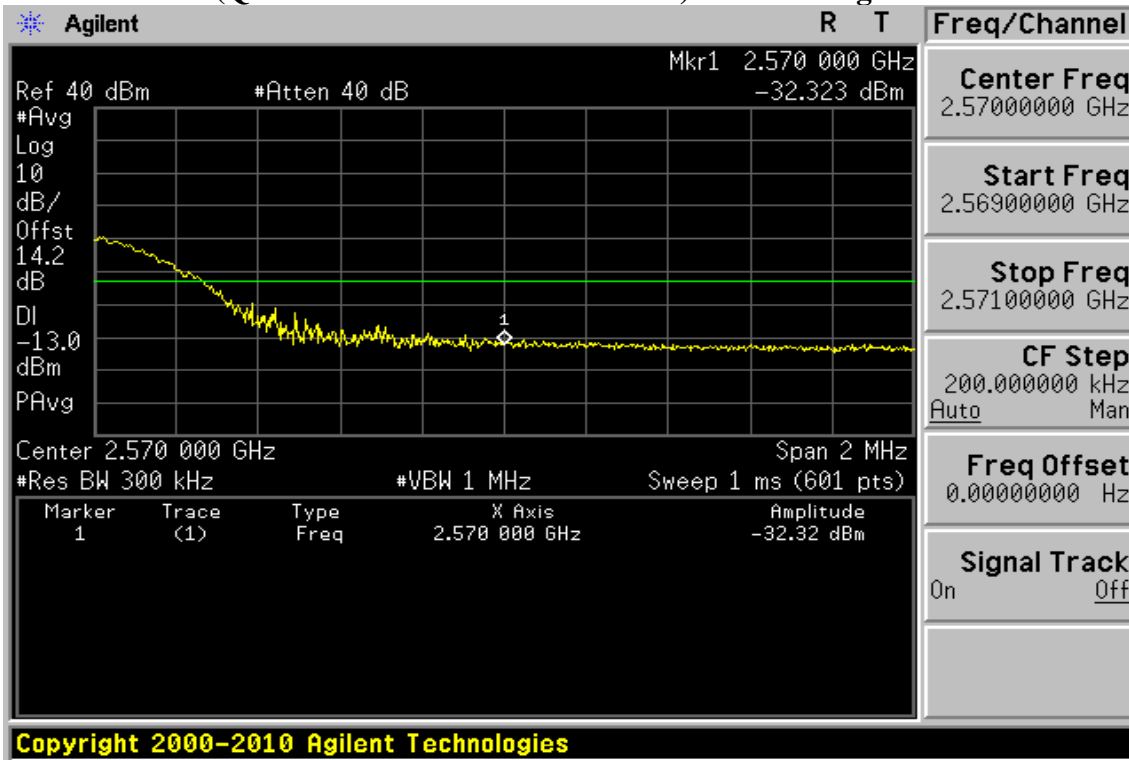
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**Figure 9-241: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Figure 9-242: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –20MHz BW LTE-Band 7**

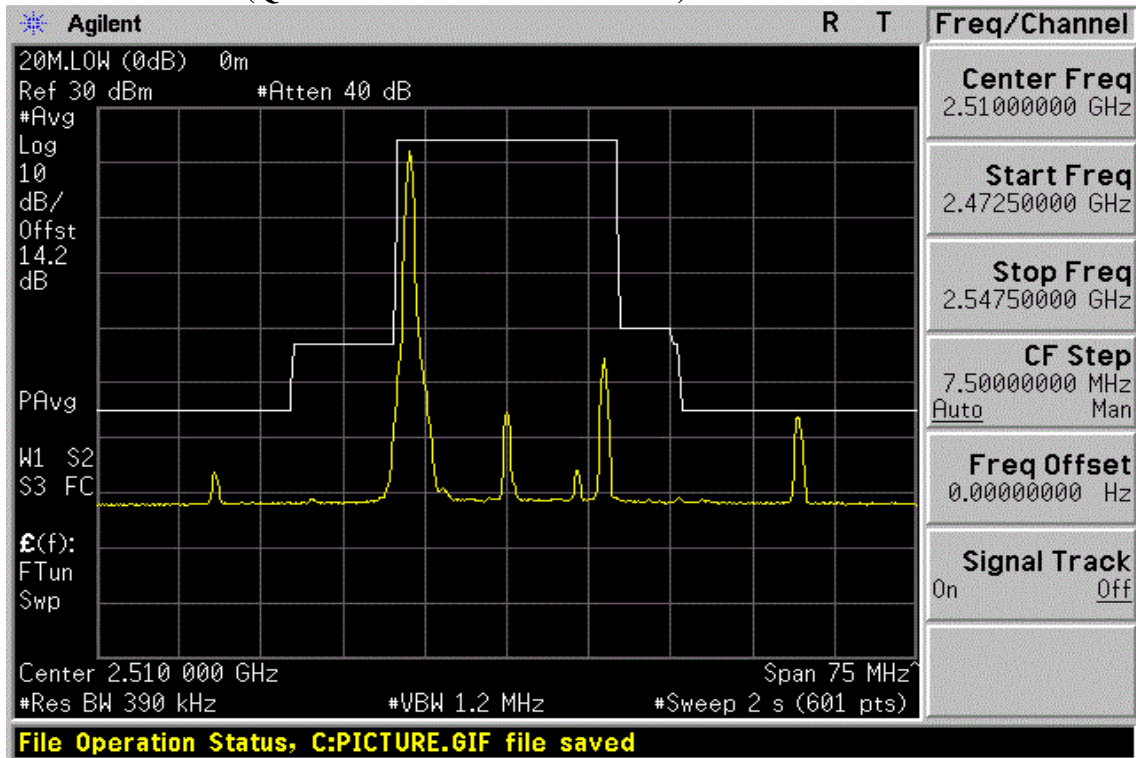
**(QPSK RB Number: 100 Offset: 0)**

Test Mode 20MHz BW LTE-Band 7 Engineer :Marcus

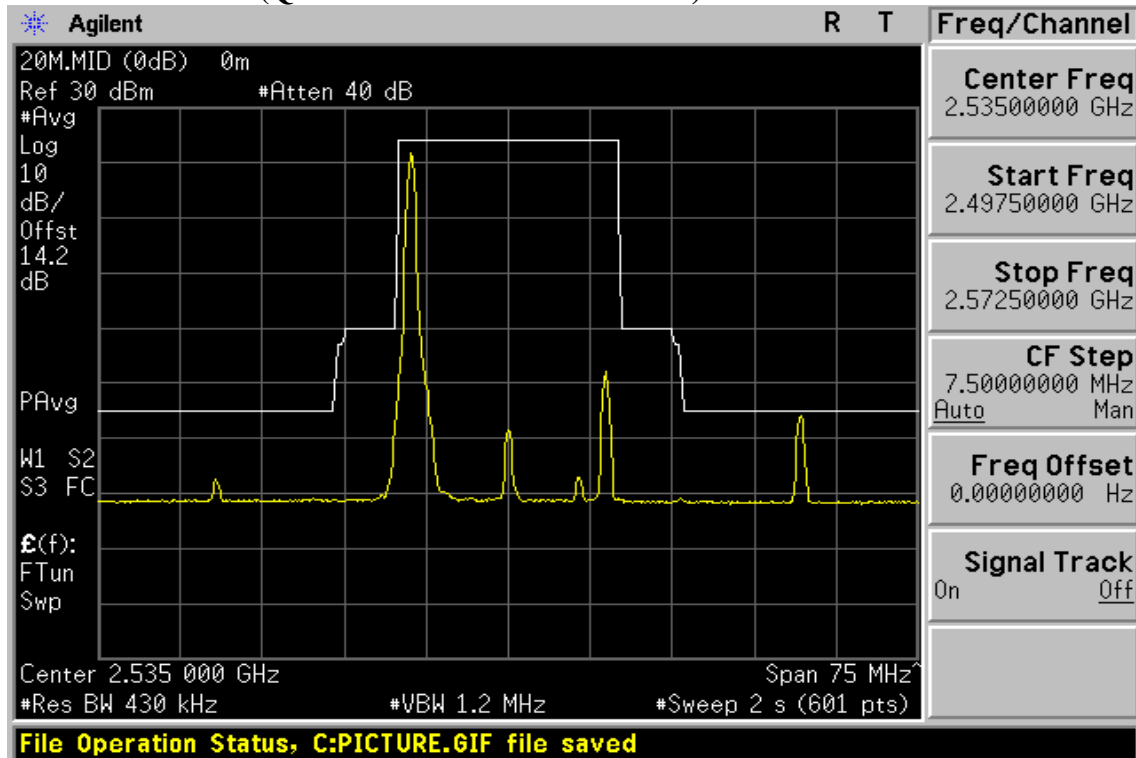
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-36.31	-13.00	23.31
2570.000	-32.32	-13.00	19.32

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**Figure 9-243: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-244: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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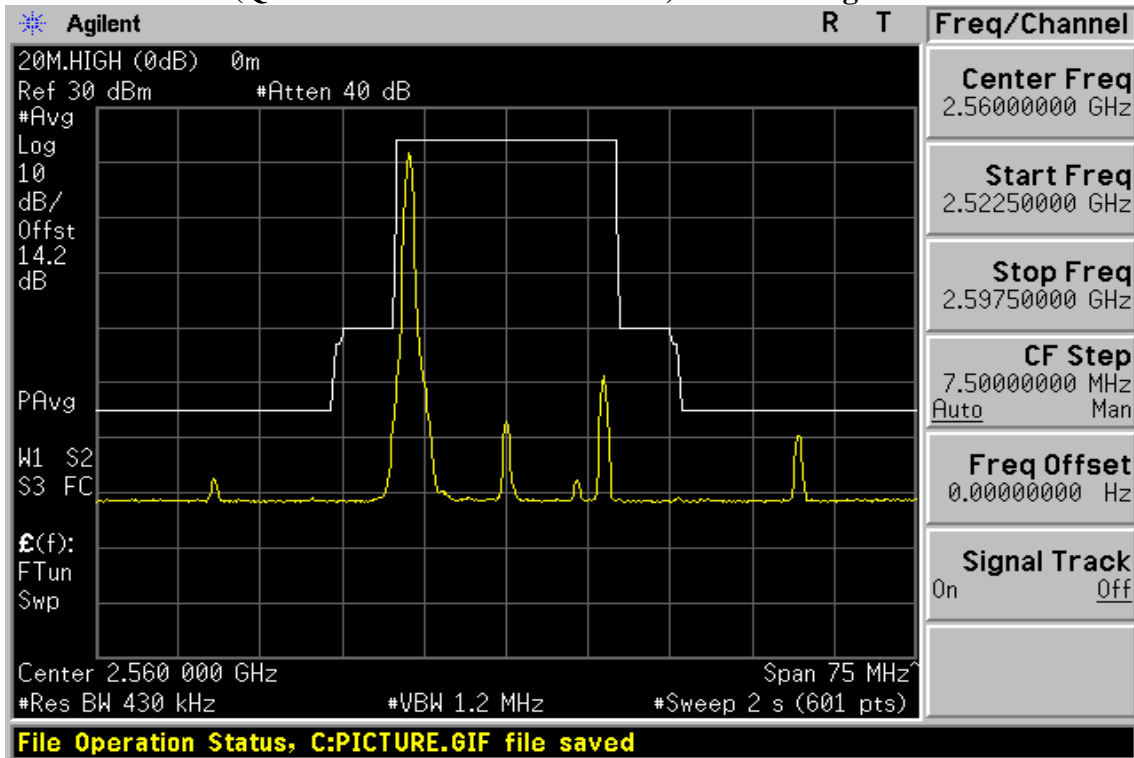
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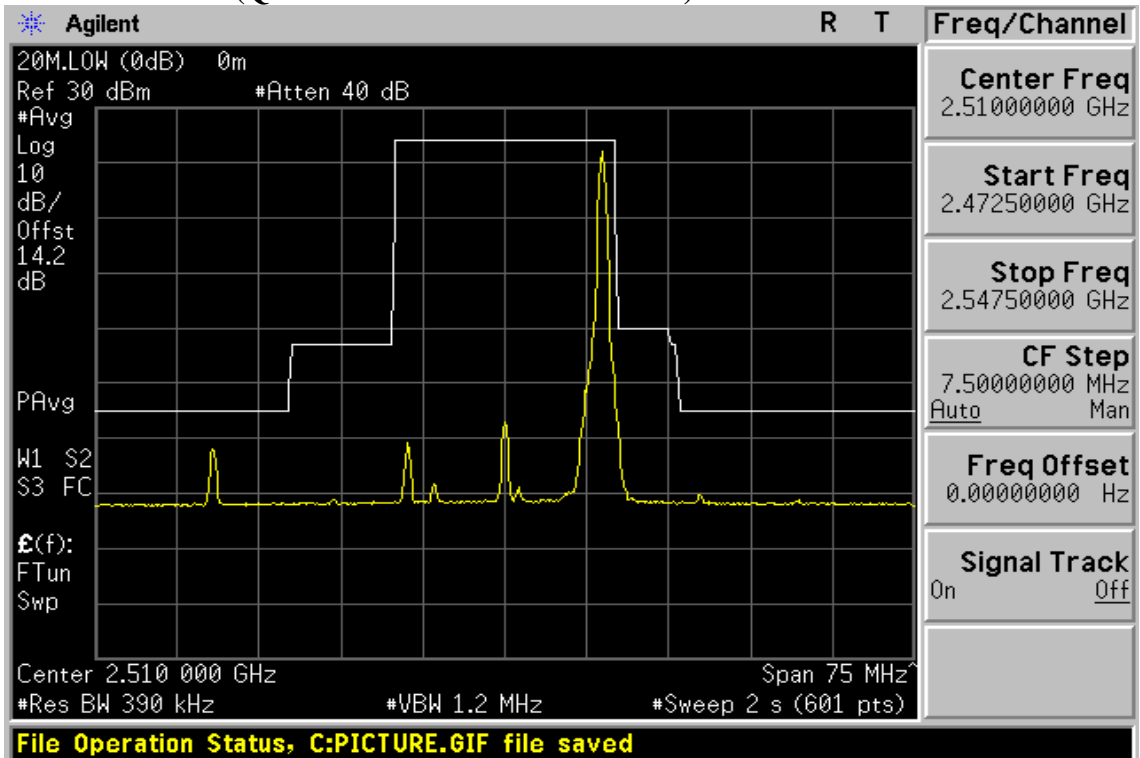
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**Figure 9-245: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest**



**Figure 9-246: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Lowest**



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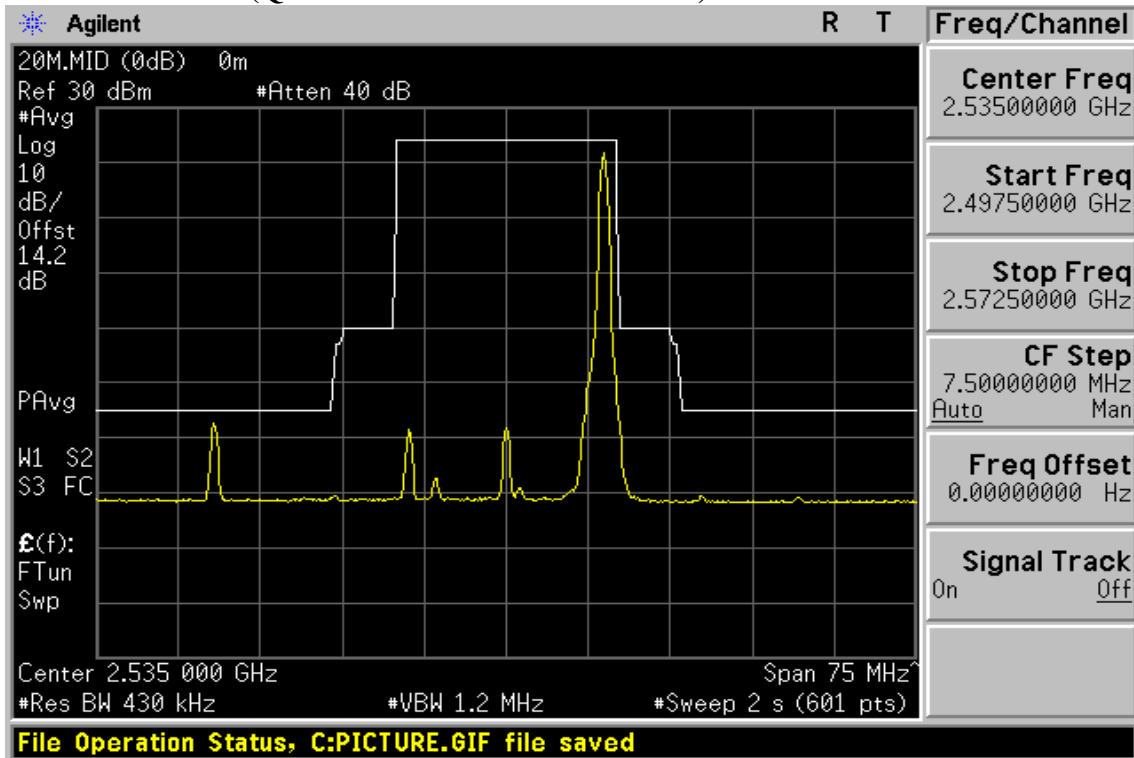
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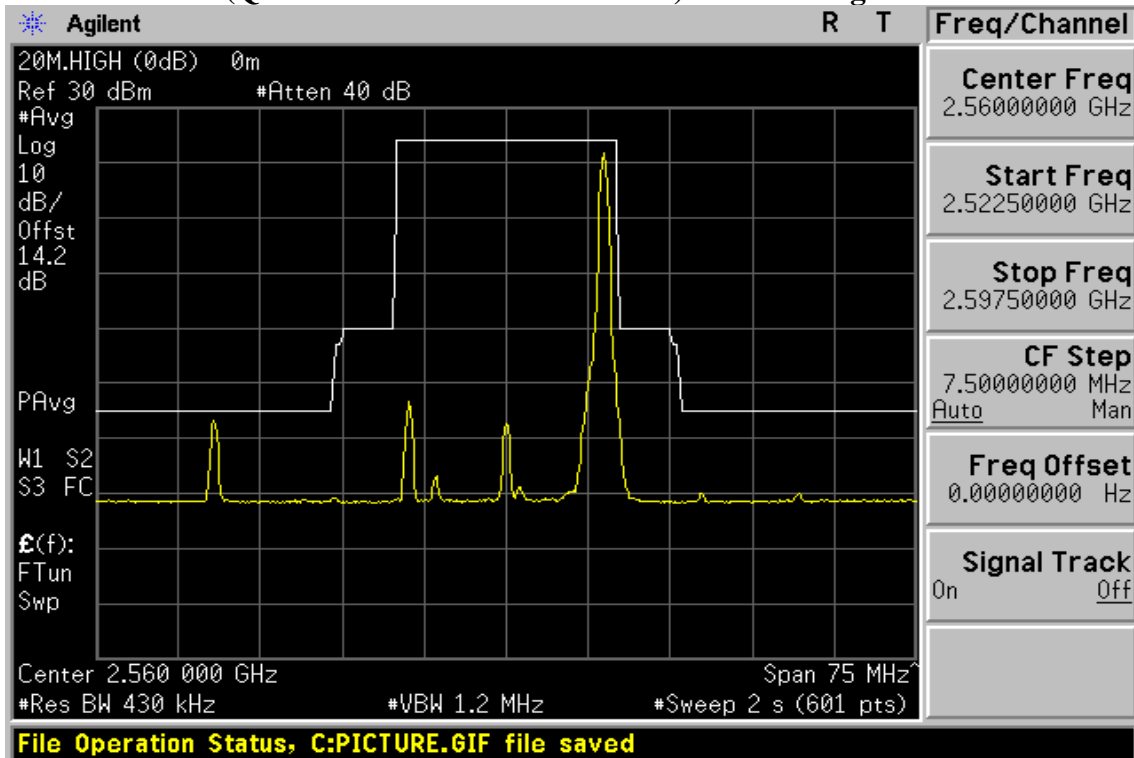
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**Figure 9-247: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Mid**



**Figure 9-248: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest**



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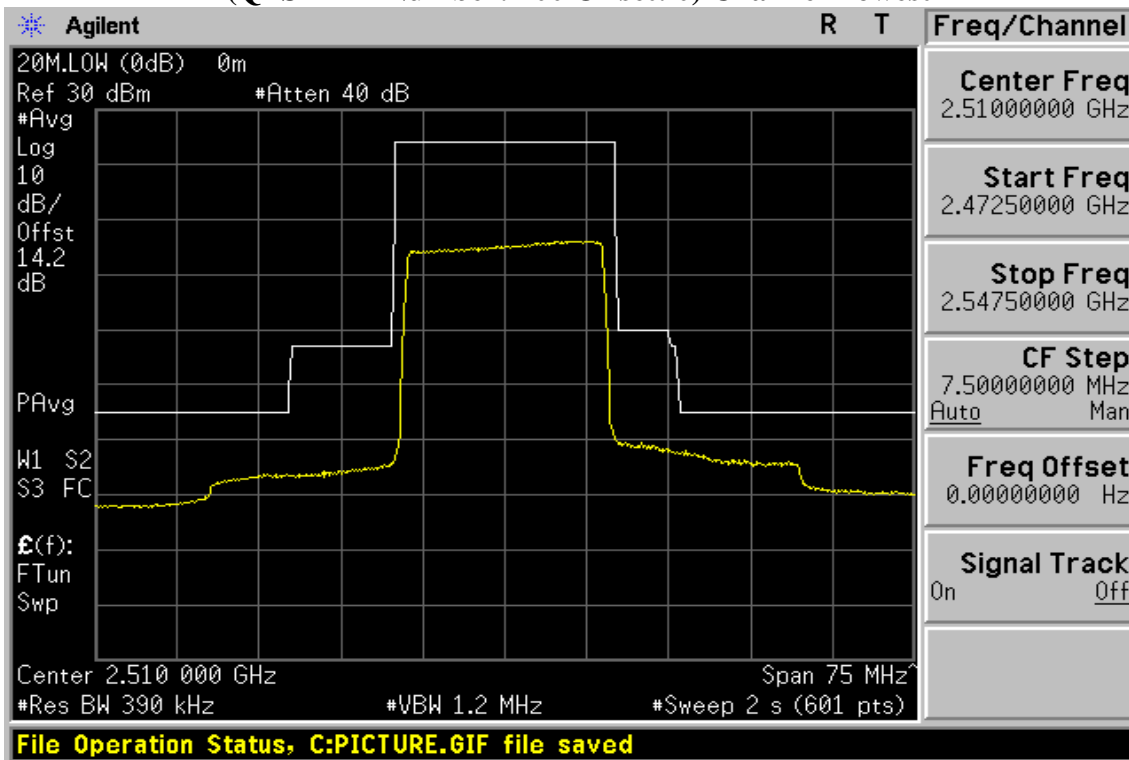
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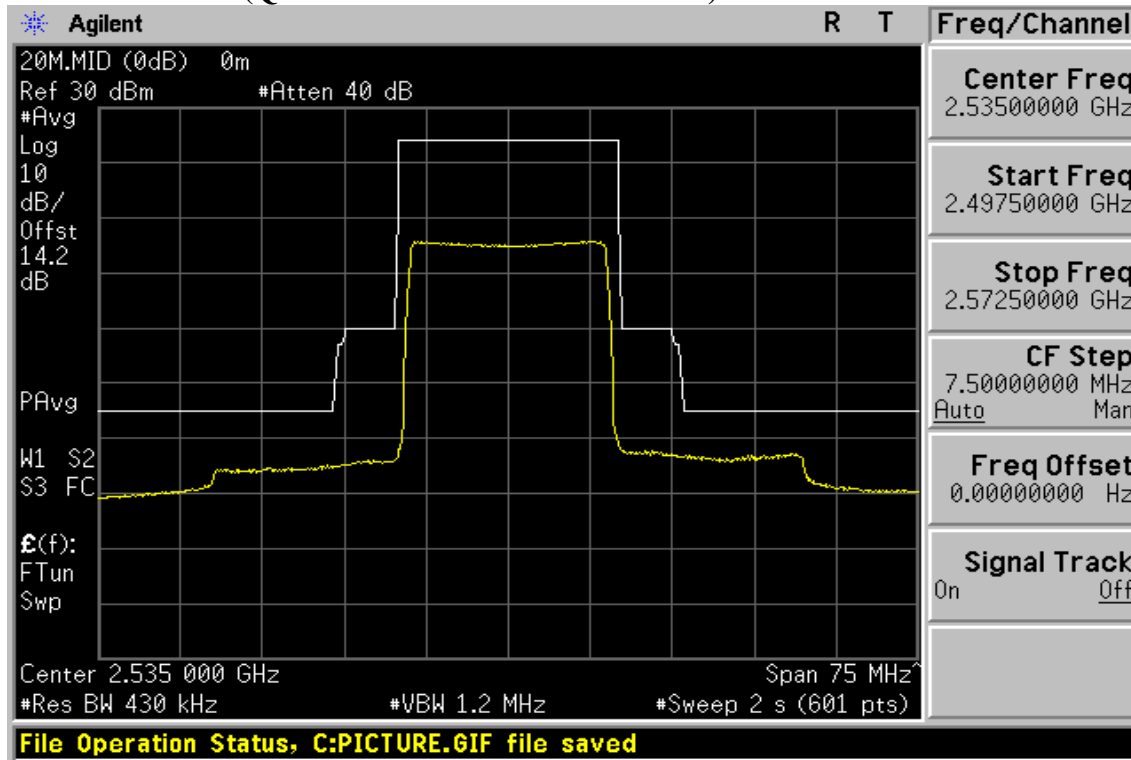
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**Figure 9-249: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Figure 9-250: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Mid**

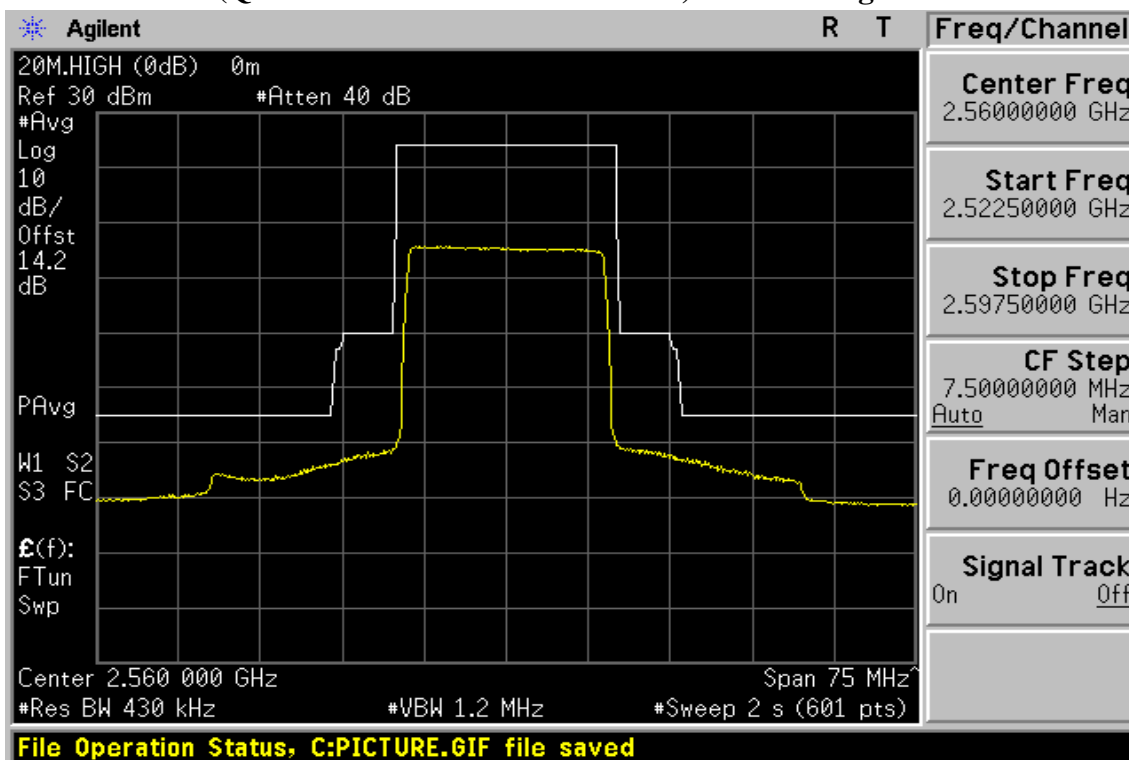


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**Figure 9-251: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest**



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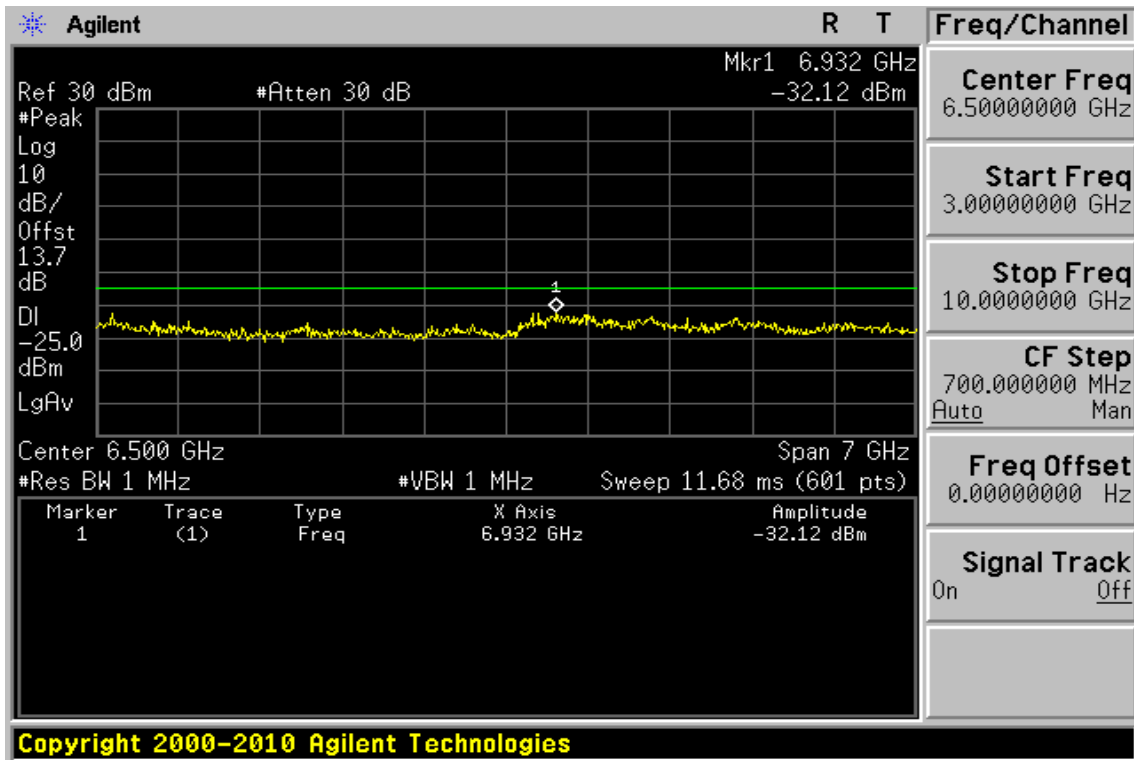
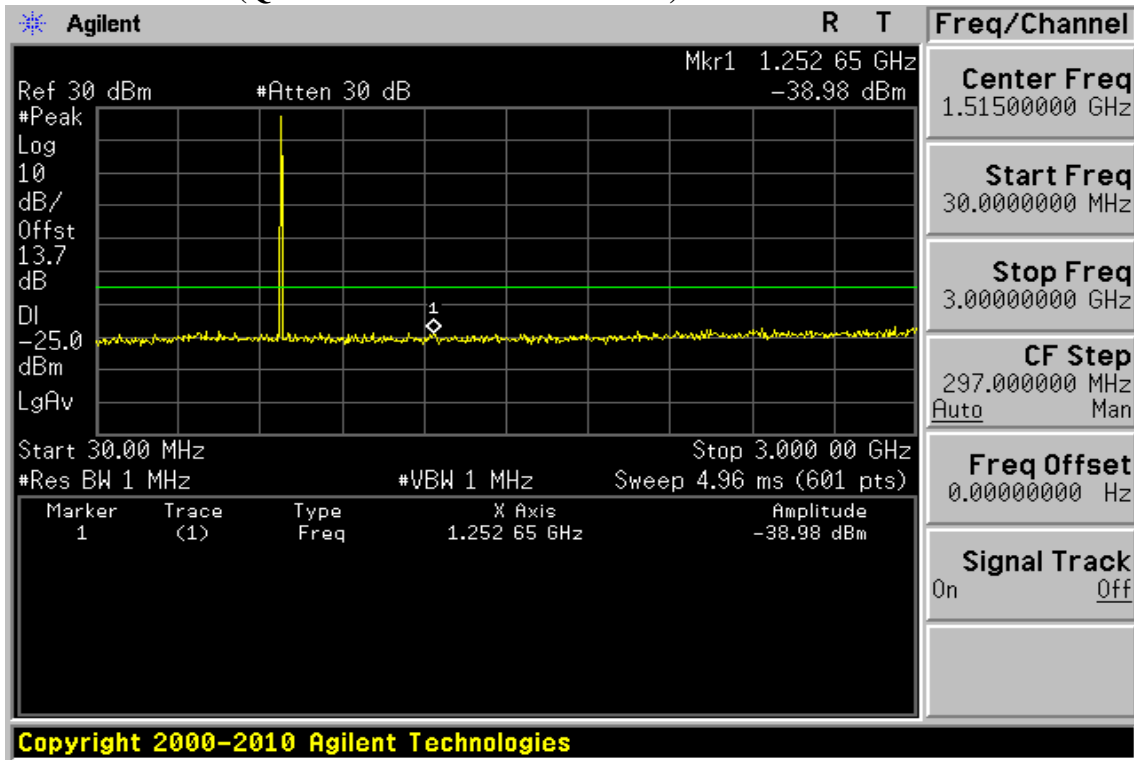
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**Figure 9-252 out of Band emission at antenna terminals–1.4MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

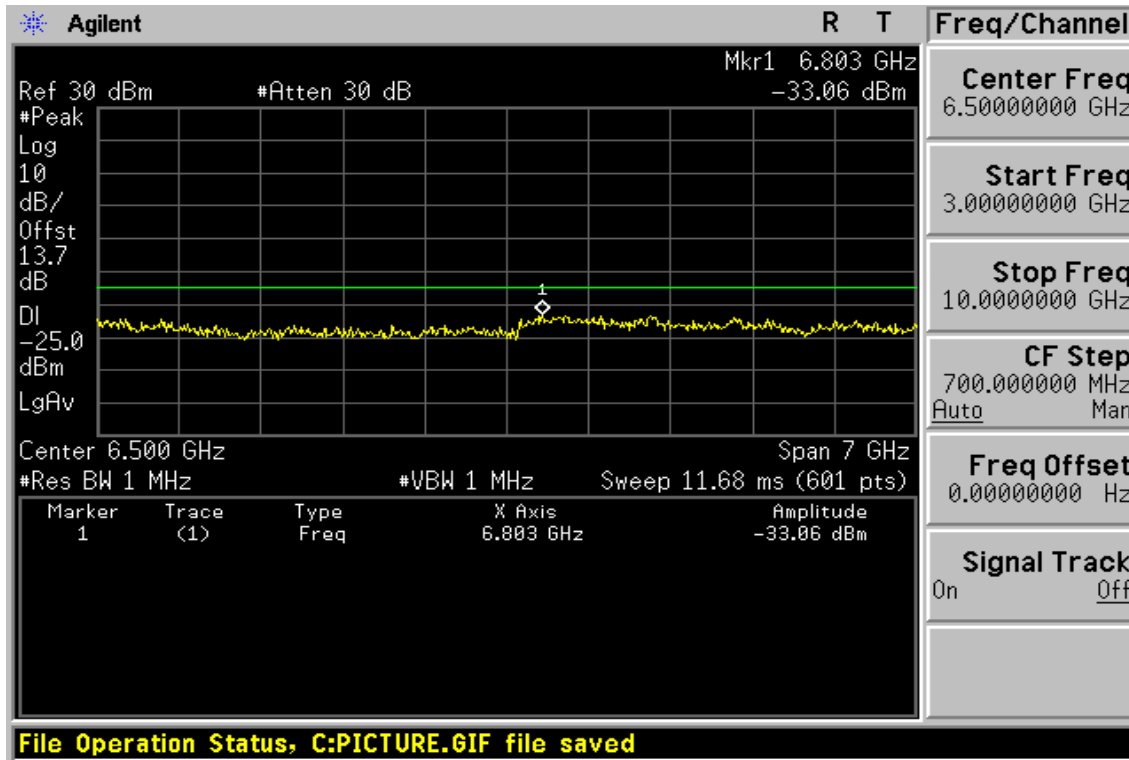
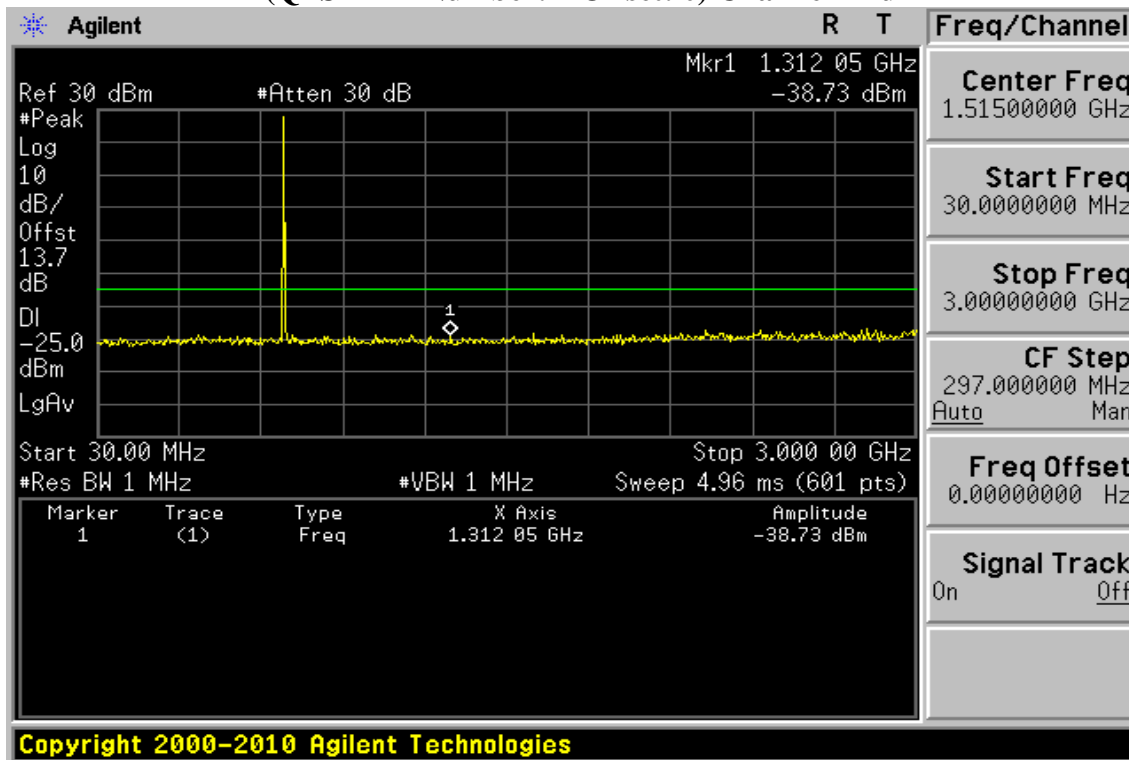


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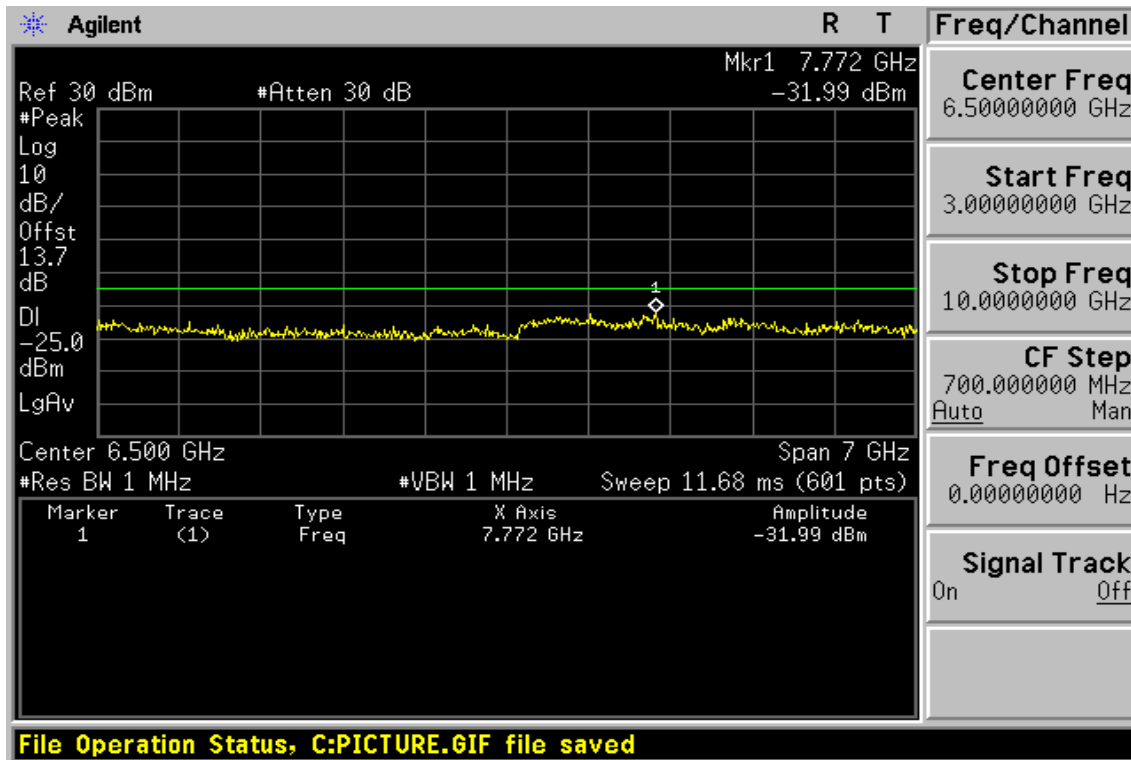
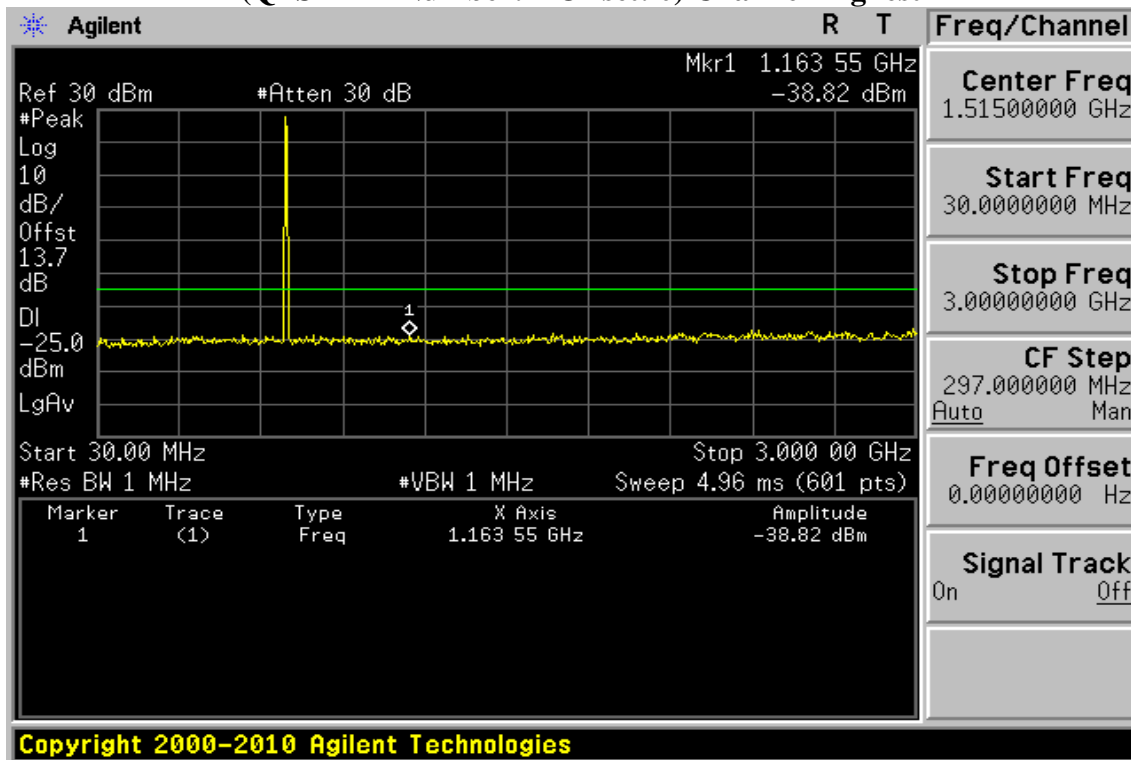
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**Figure 9-253: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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**Figure 9-254: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 12**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :699.7 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1399.40	H	---	-13.00	---
2099.10	H	---	-13.00	---
2798.80	H	---	-13.00	---
3498.50	H	---	-13.00	---
4198.20	H	---	-13.00	---
4897.90	H	---	-13.00	---
5597.60	H	---	-13.00	---
6297.30	H	---	-13.00	---
6932.00	S	-32.12	-13.00	19.12
6997.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :707.5 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1415.00	H	---	-13.00	---
2122.50	H	---	-13.00	---
2830.00	H	---	-13.00	---
3537.50	H	---	-13.00	---
4245.00	H	---	-13.00	---
4952.50	H	---	-13.00	---
5660.00	H	---	-13.00	---
6367.50	H	---	-13.00	---
6803.00	S	-33.06	-13.00	20.06
7075.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :715.3 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1430.60	H	---	-13.00	---
2145.90	H	---	-13.00	---
2861.20	H	---	-13.00	---
3576.50	H	---	-13.00	---
4291.80	H	---	-13.00	---
5007.10	H	---	-13.00	---
5722.40	H	---	-13.00	---
6437.70	H	---	-13.00	---
7153.00	H	---	-13.00	---
7772.00	S	-31.99	-13.00	18.99

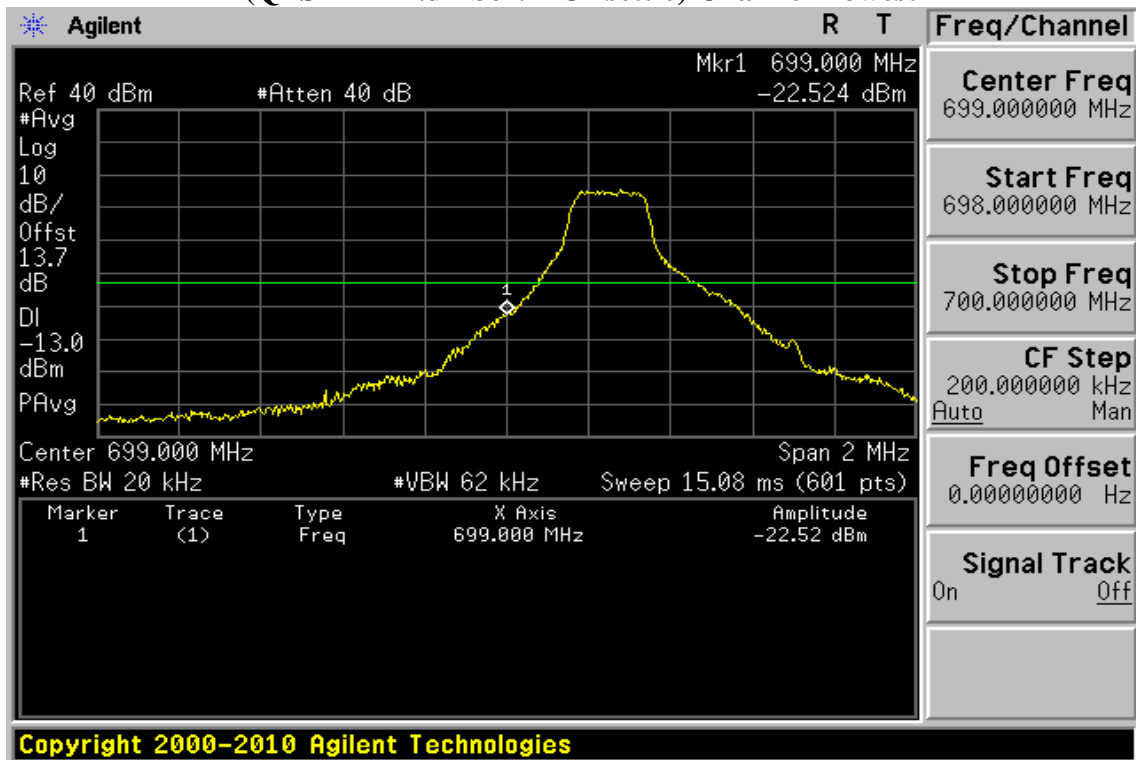
Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

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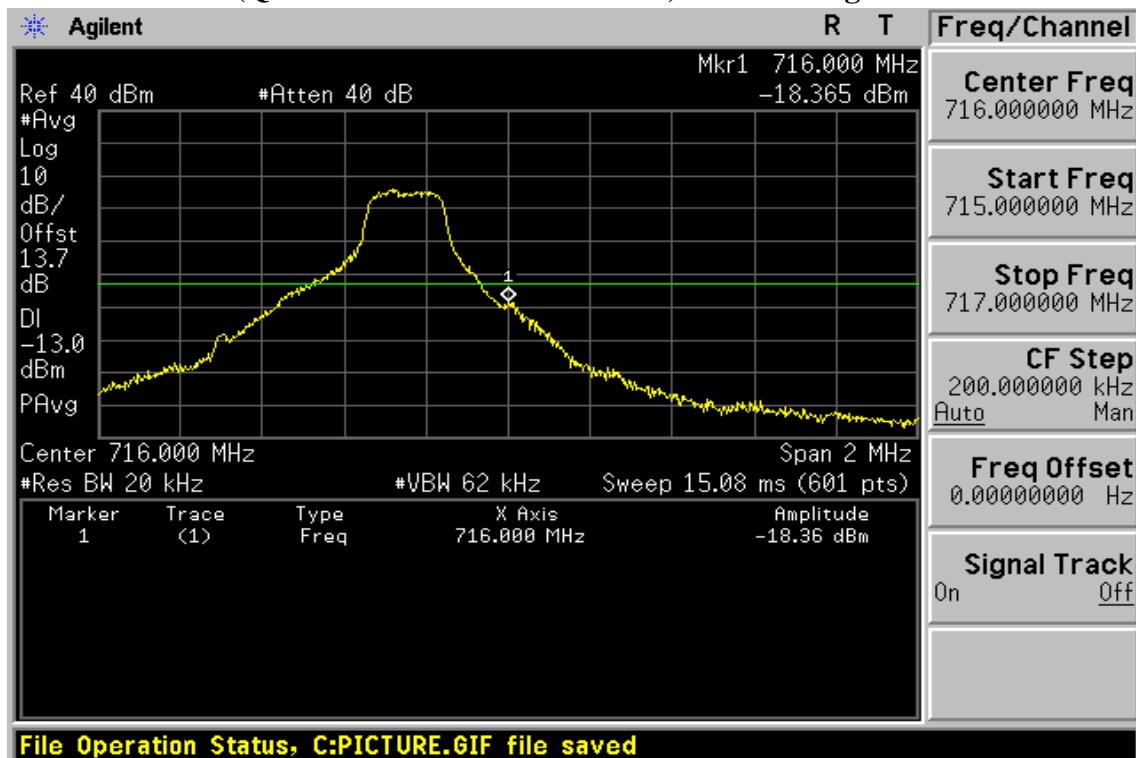
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**Figure 9-255: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-256: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 12**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5)**

Test Mode 1.4MHz BW LTE-Band 12 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
699.000	-22.52	-13.00	9.52
716.000	-18.36	-13.00	5.36

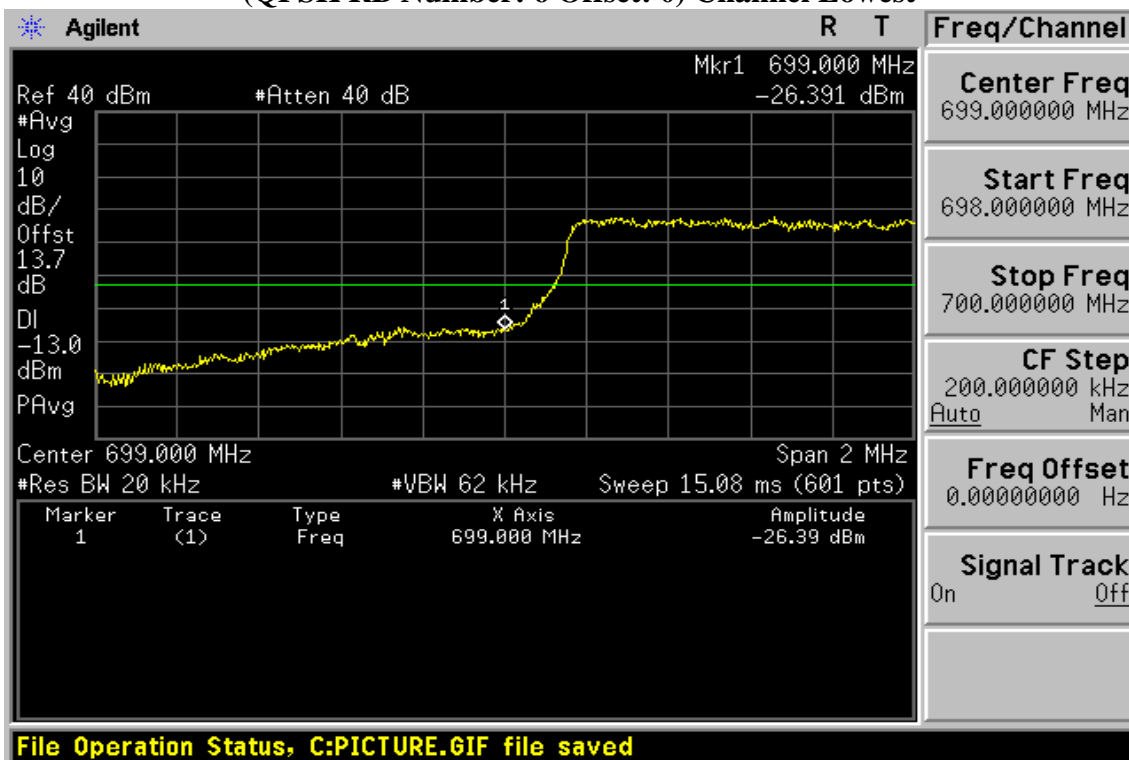
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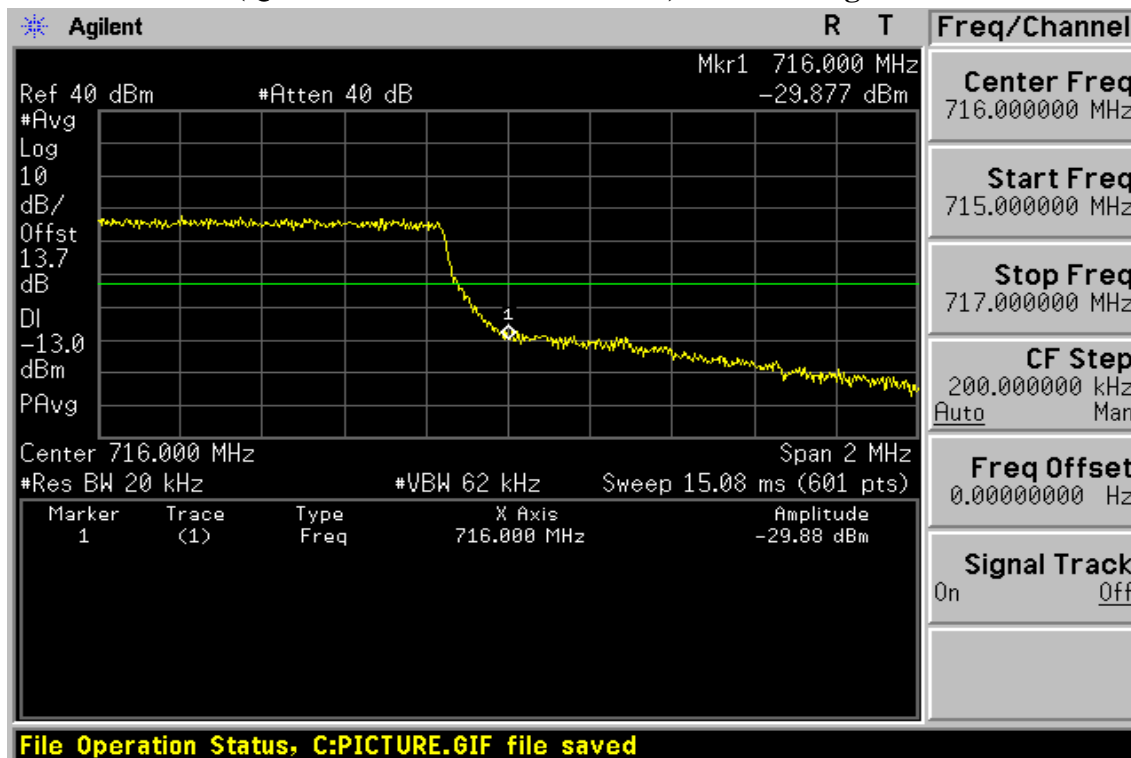
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**Figure 9-257: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 12 (QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Figure 9-258: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 12 (QPSK RB Number: 6 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 12**

**(QPSK RB Number: 6 Offset: 0)**

Test Mode 1.4MHz BW LTE-Band 12 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
699.000	-26.39	-13.00	13.39
716.000	-29.88	-13.00	16.88

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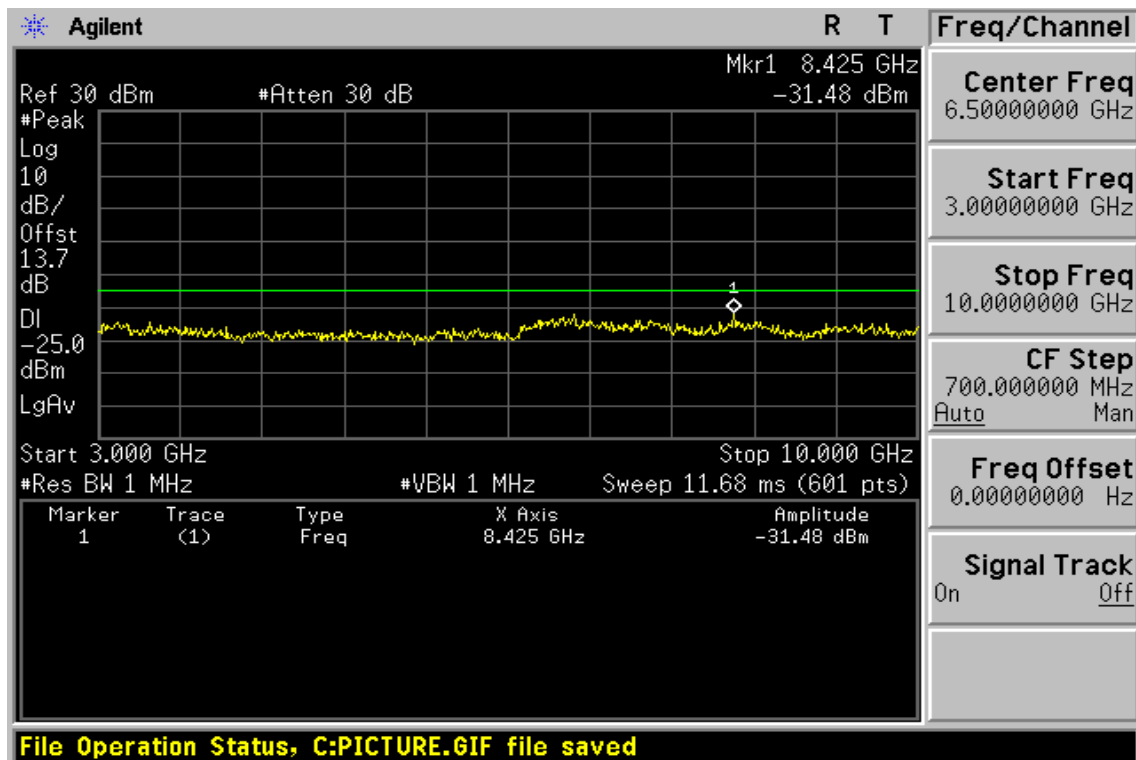
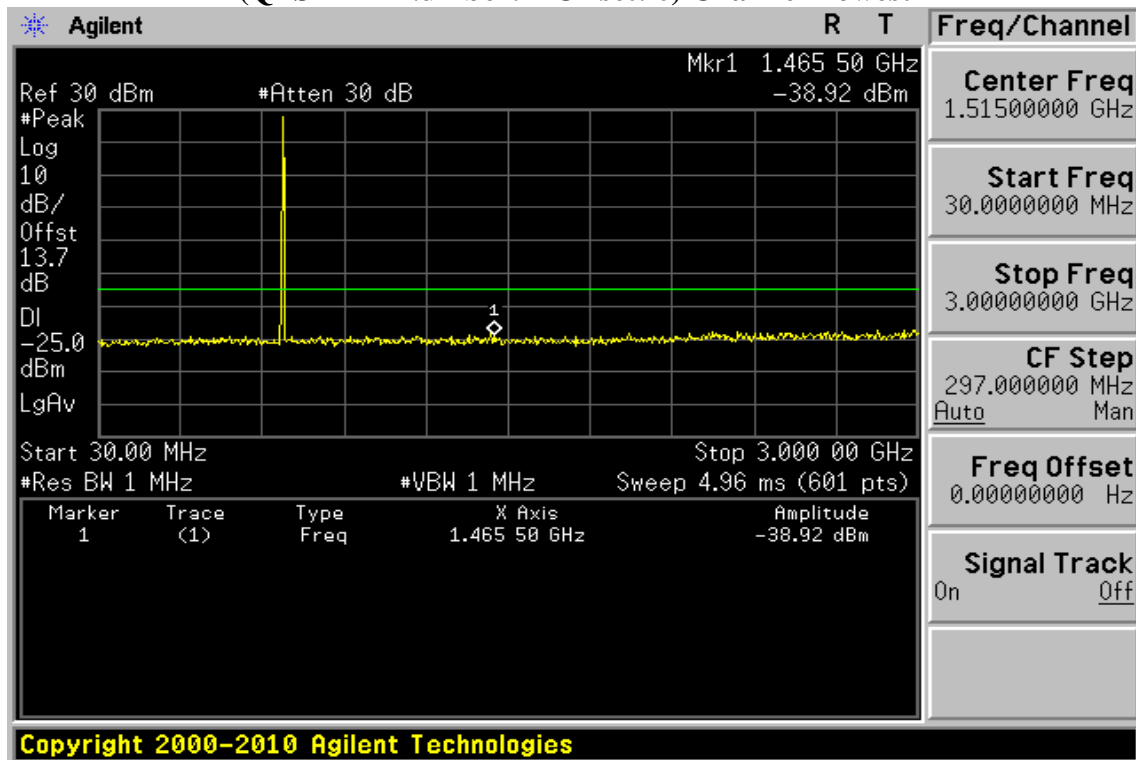
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**Figure 9-259: Out of Band emission at antenna terminals–3MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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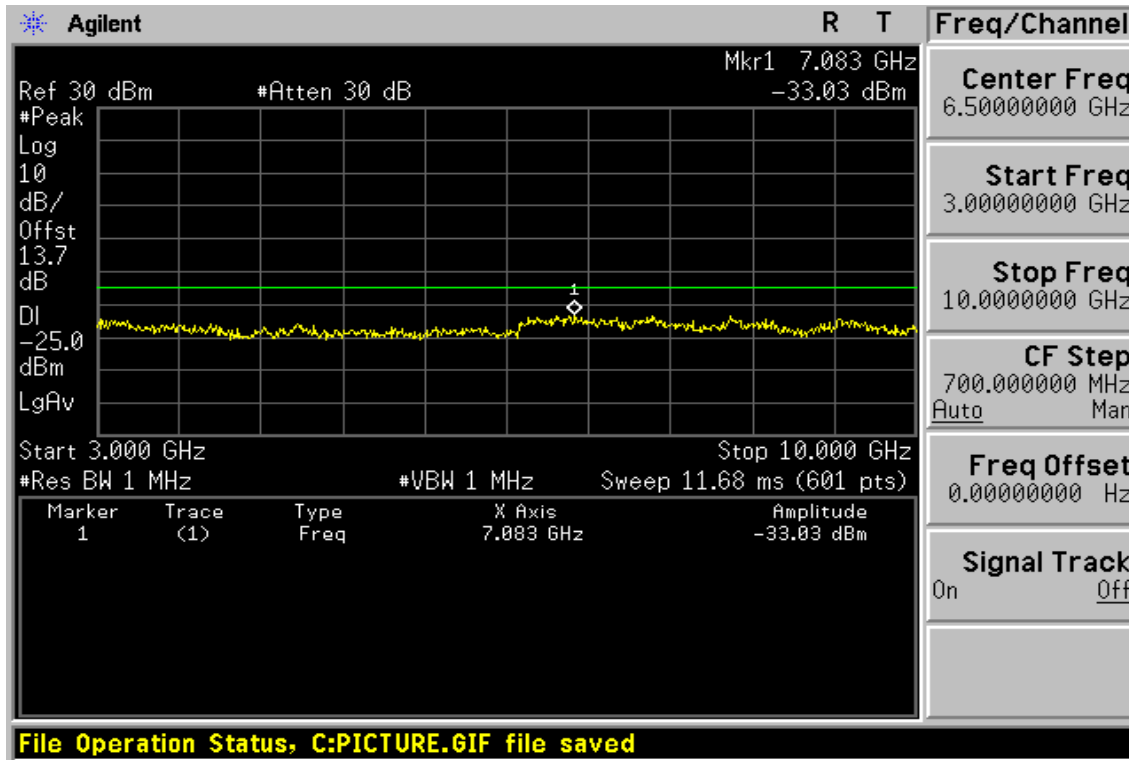
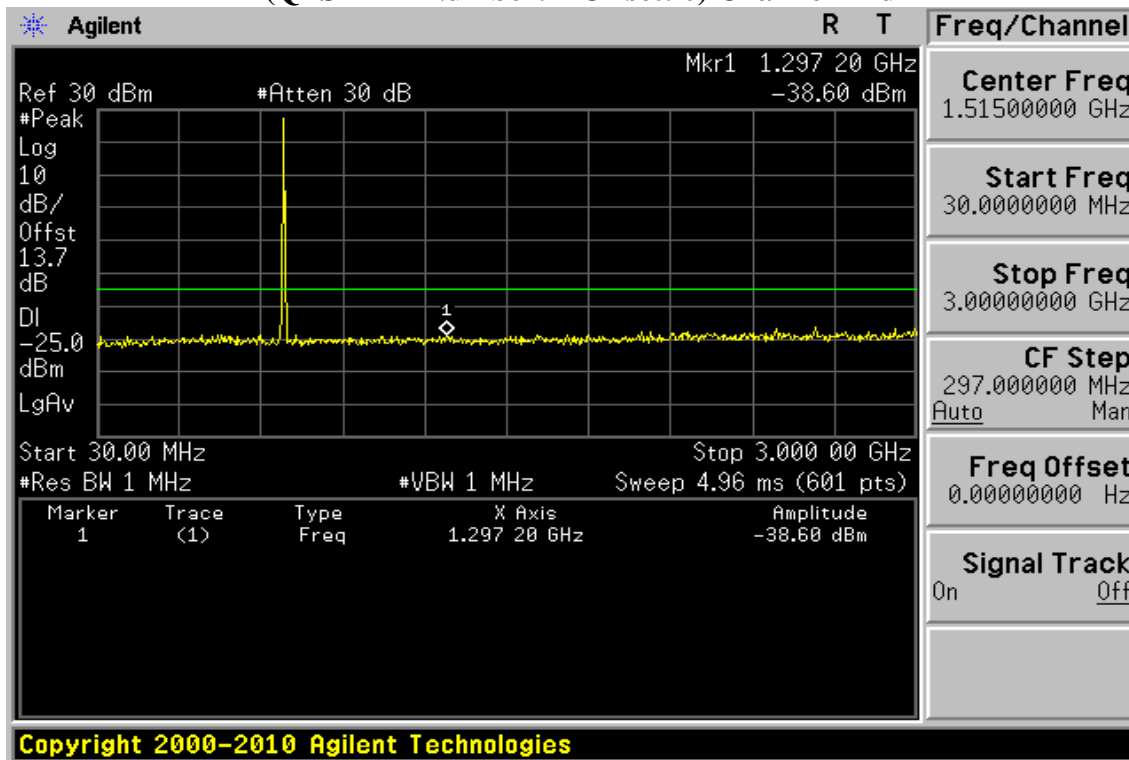
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**Figure 9-260: Out of Band emission at antenna terminals –3MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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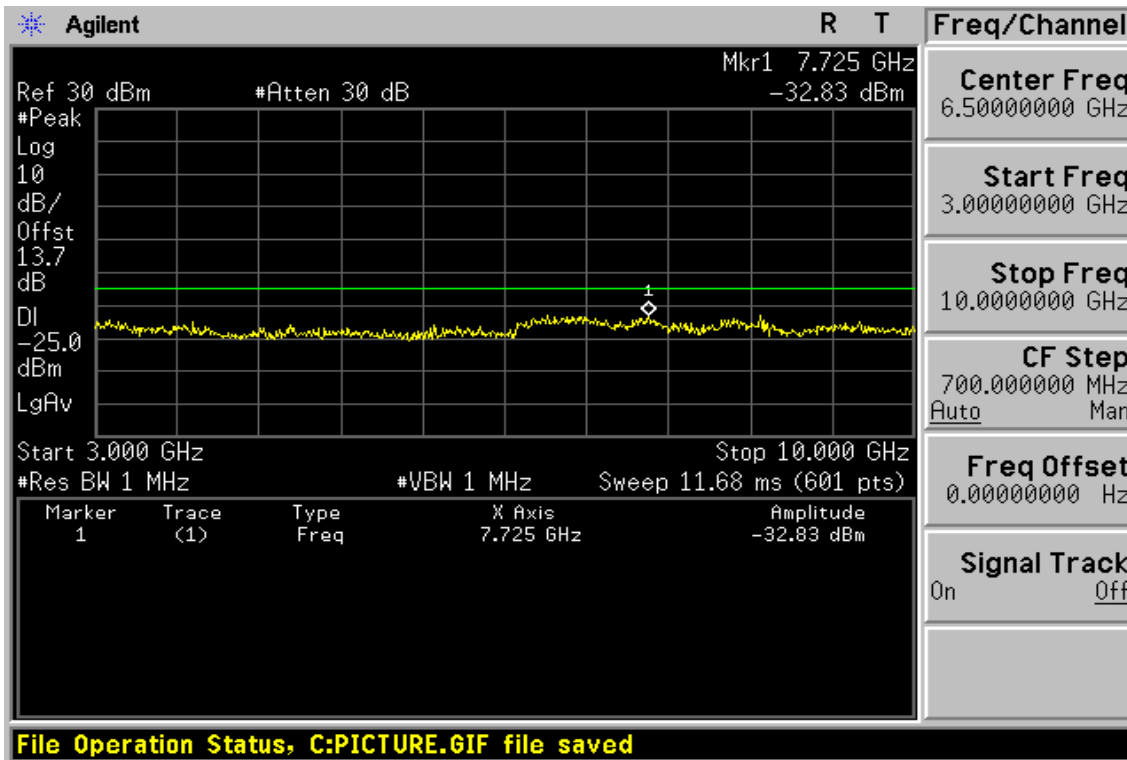
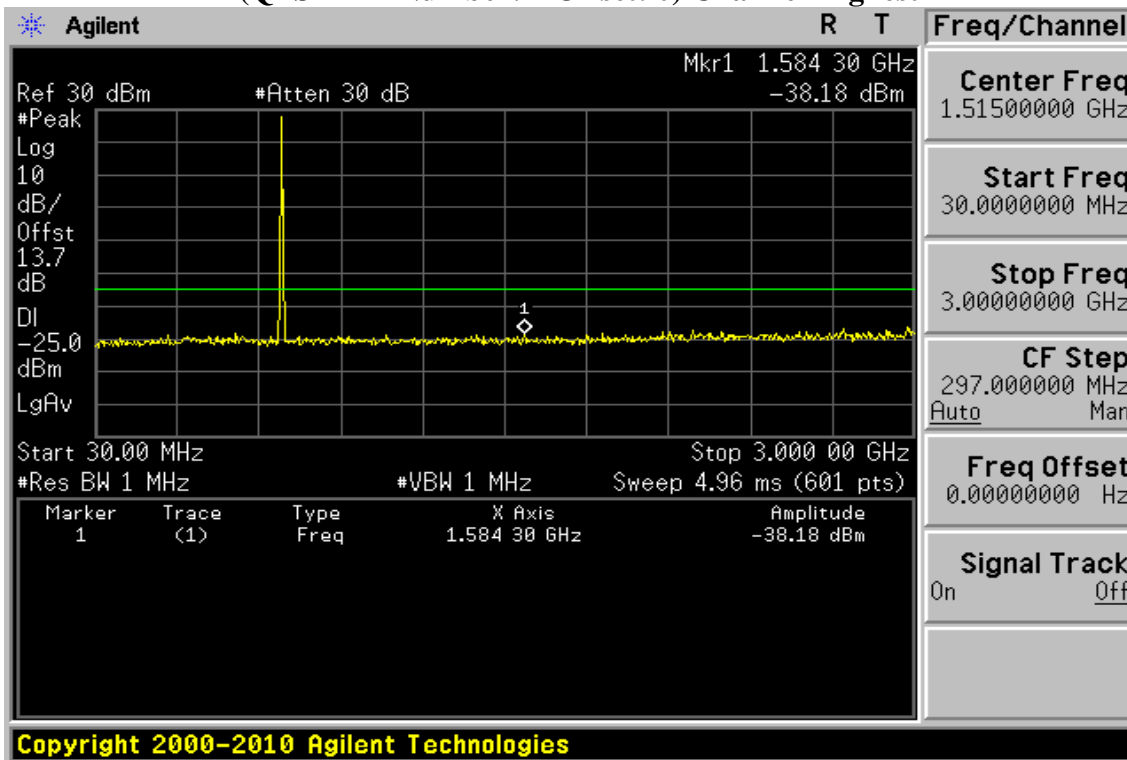
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**Figure 9-261: Out of Band emission at antenna terminals–3MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –3MHz BW LTE-Band 12**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :700.5 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1401.00	H	---	-13.00	---
2101.50	H	---	-13.00	---
2802.00	H	---	-13.00	---
3502.50	H	---	-13.00	---
4203.00	H	---	-13.00	---
4903.50	H	---	-13.00	---
5604.00	H	---	-13.00	---
6304.50	H	---	-13.00	---
7005.00	H	---	-13.00	---
8425.00	S	-31.48	-13.00	18.48

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :707.5 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1415.00	H	---	-13.00	---
2122.50	H	---	-13.00	---
2830.00	H	---	-13.00	---
3537.50	H	---	-13.00	---
4245.00	H	---	-13.00	---
4952.50	H	---	-13.00	---
5660.00	H	---	-13.00	---
6367.50	H	---	-13.00	---
7075.00	H	---	-13.00	---
7083.00	S	-33.03	-13.00	20.03

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :714.5 MHz Engineer :Nick  
 Operation Mode :TX High

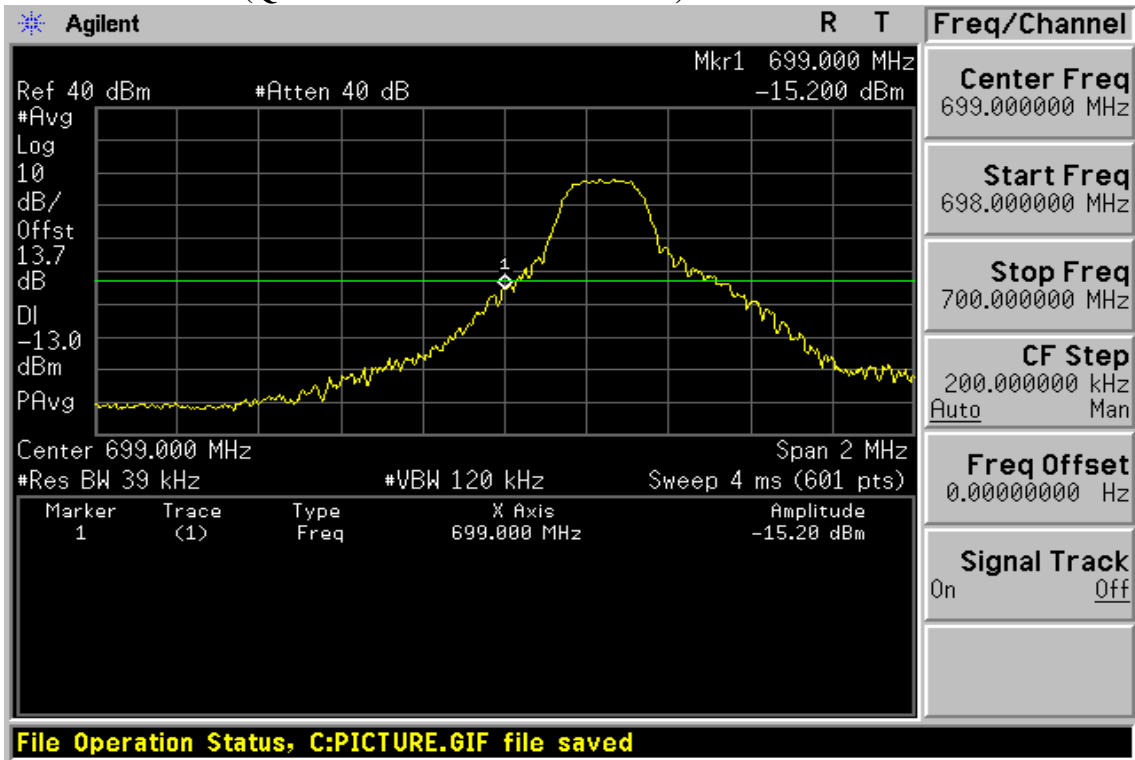
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1429.00	H	---	-13.00	---
2143.50	H	---	-13.00	---
2858.00	H	---	-13.00	---
3572.50	H	---	-13.00	---
4287.00	H	---	-13.00	---
5001.50	H	---	-13.00	---
5716.00	H	---	-13.00	---
6430.50	H	---	-13.00	---
7145.00	H	---	-13.00	---
7725.00	S	-32.83	-13.00	19.83

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “-” : denotes Spurious Freque

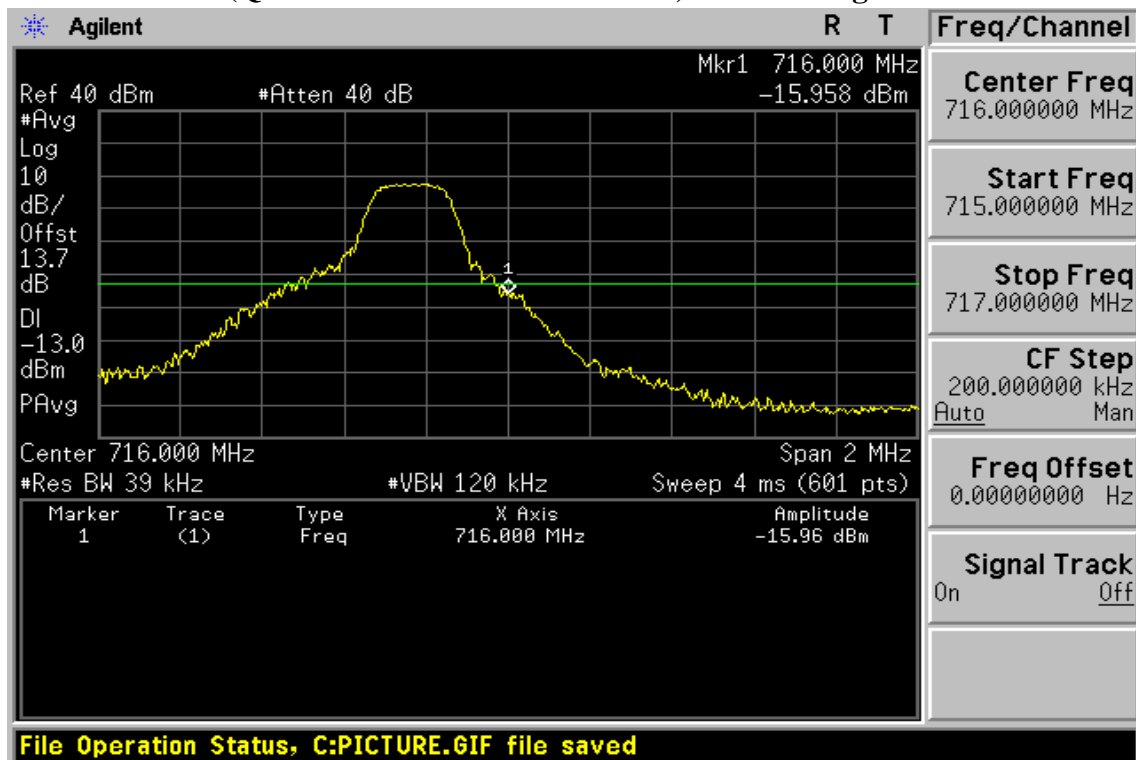
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**Figure 9-262: Band edge emission at antenna terminals –3MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-263: Band edge emission at antenna terminals –3MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 12**

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14)

Test Mode                      3MHz BW LTE-Band 12      Engineer    :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
699.000	-15.2	-13.00	2.20
716.000	-15.96	-13.00	2.96

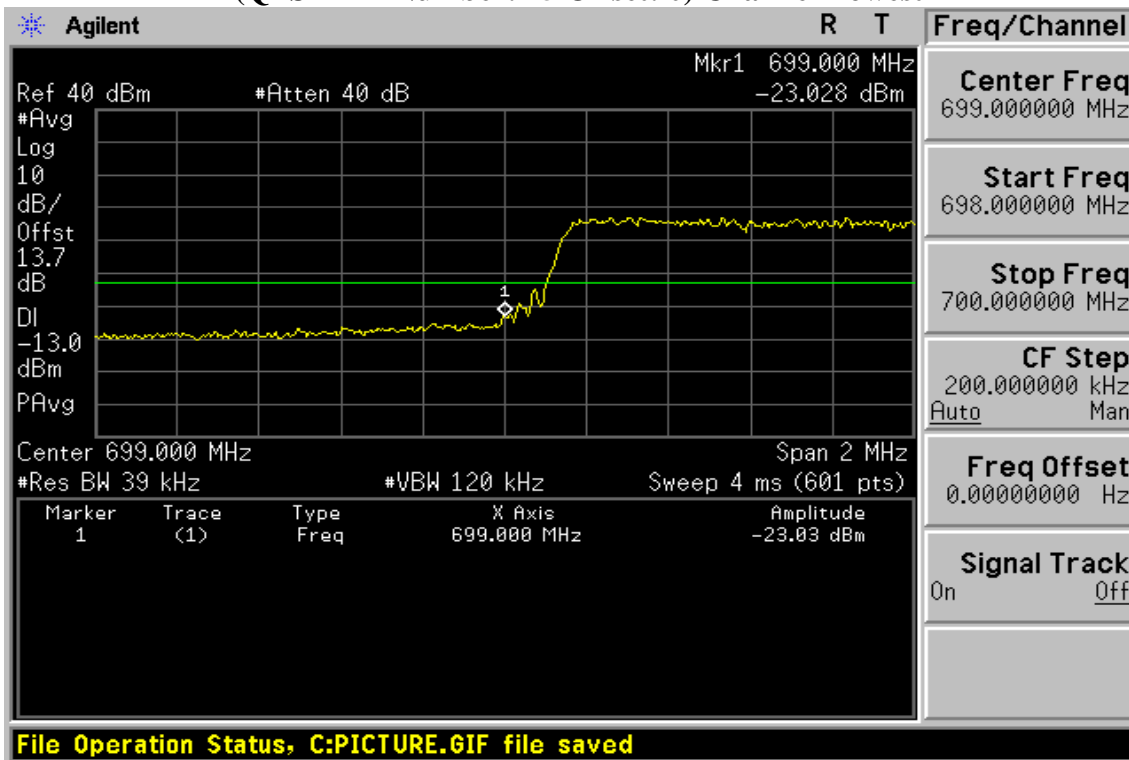
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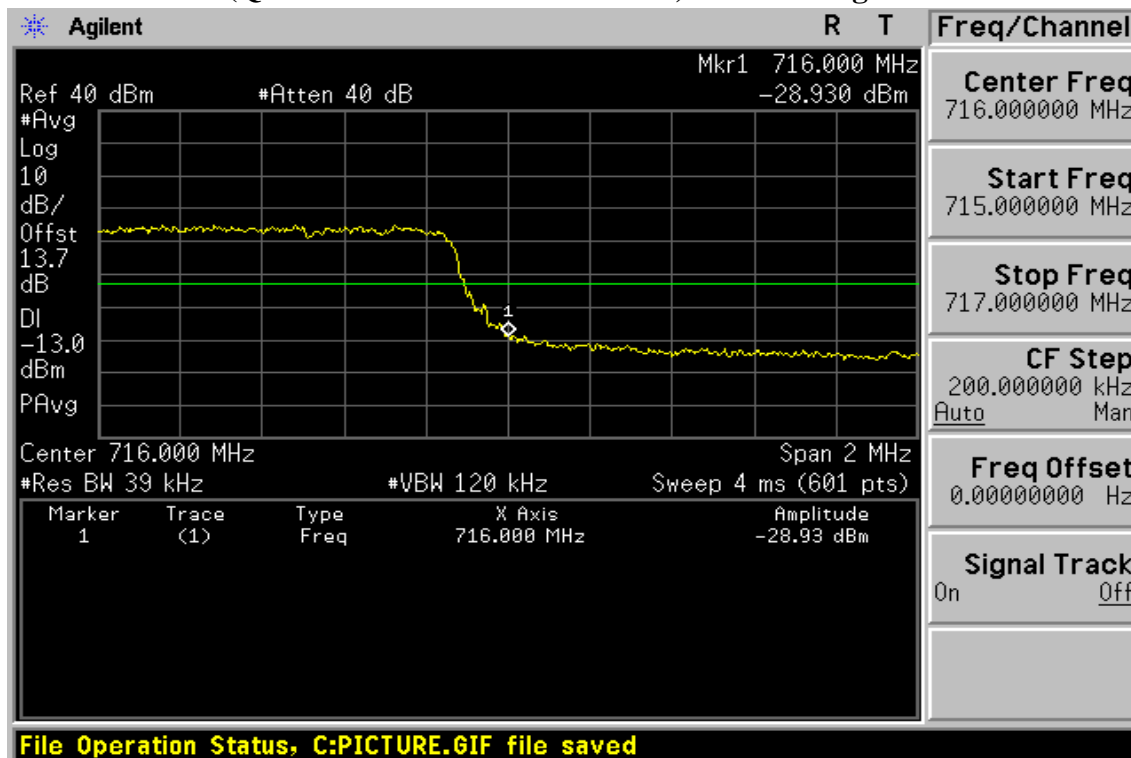
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**Figure 9-264: Band edge emission at antenna terminals –3MHz BW LTE-Band 12 (QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Figure 9-265: Band edge emission at antenna terminals –3MHz BW LTE-Band 12 (QPSK RB Number: 15 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 12**

**(QPSK RB Number: 15 Offset: 0)**

Test Mode                      3MHz BW LTE-Band 12      Engineer                                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
699.000	-23.03	-13.00	10.03
716.000	-28.93	-13.00	15.93

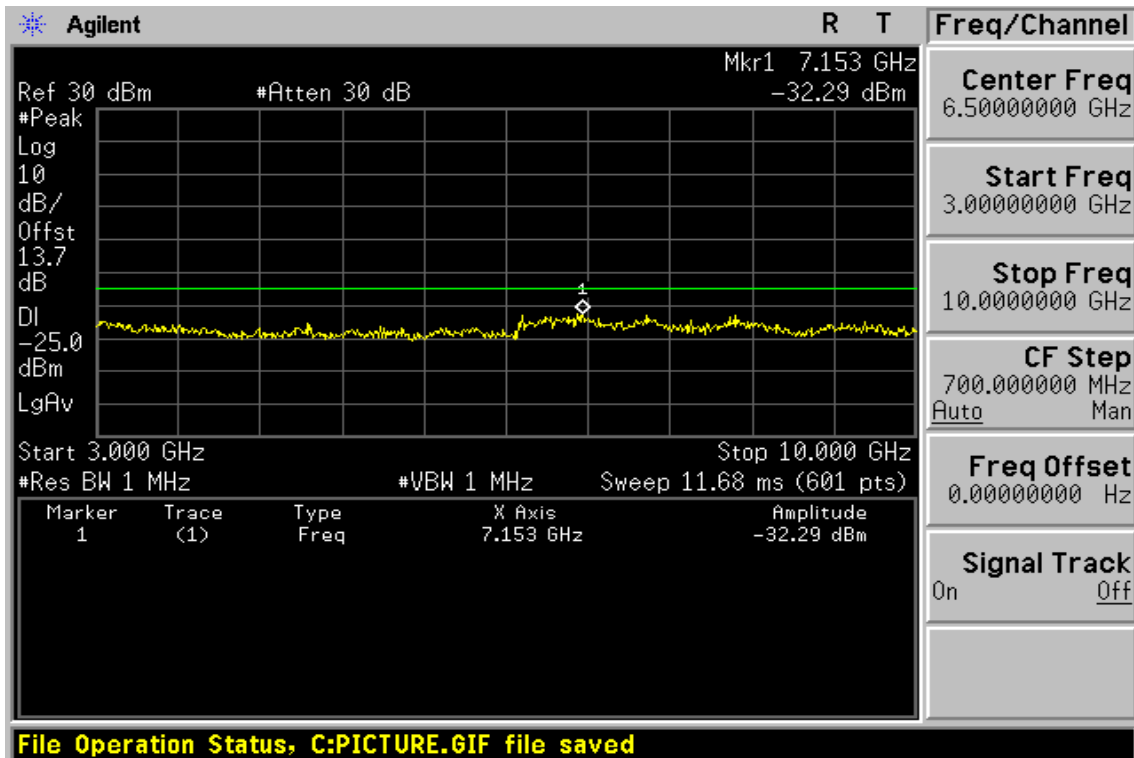
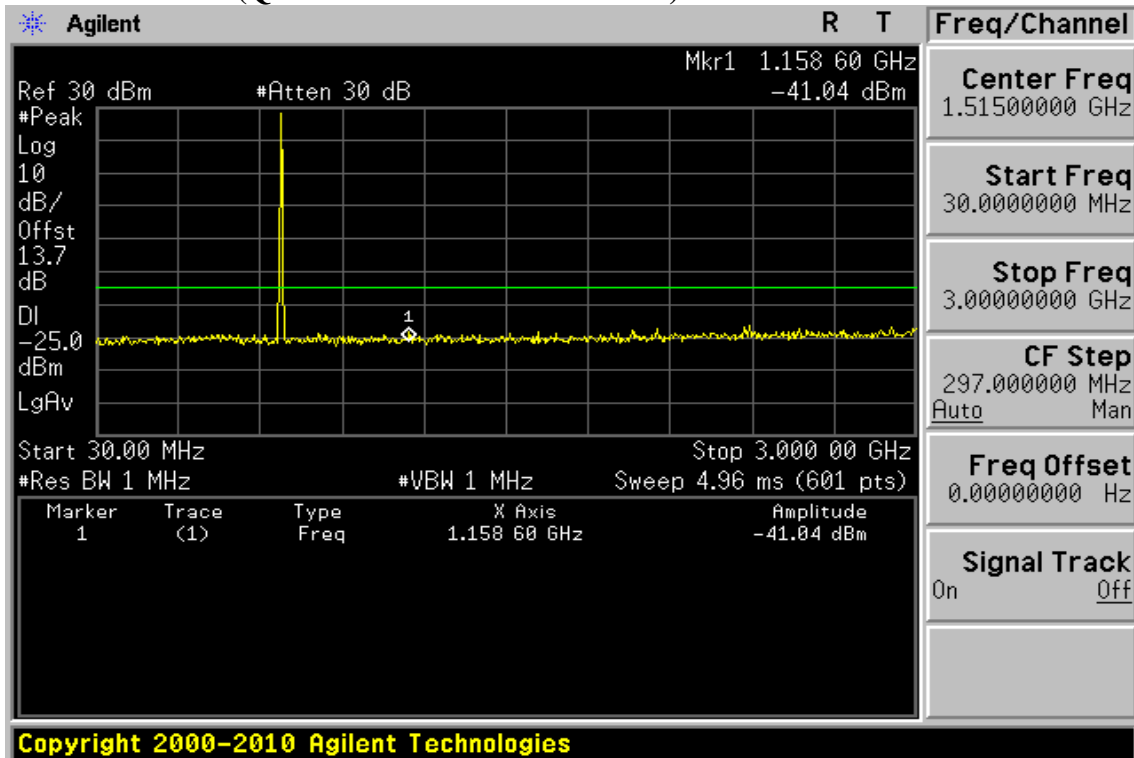
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**Figure 9-266: Out of Band emission at antenna terminals–5MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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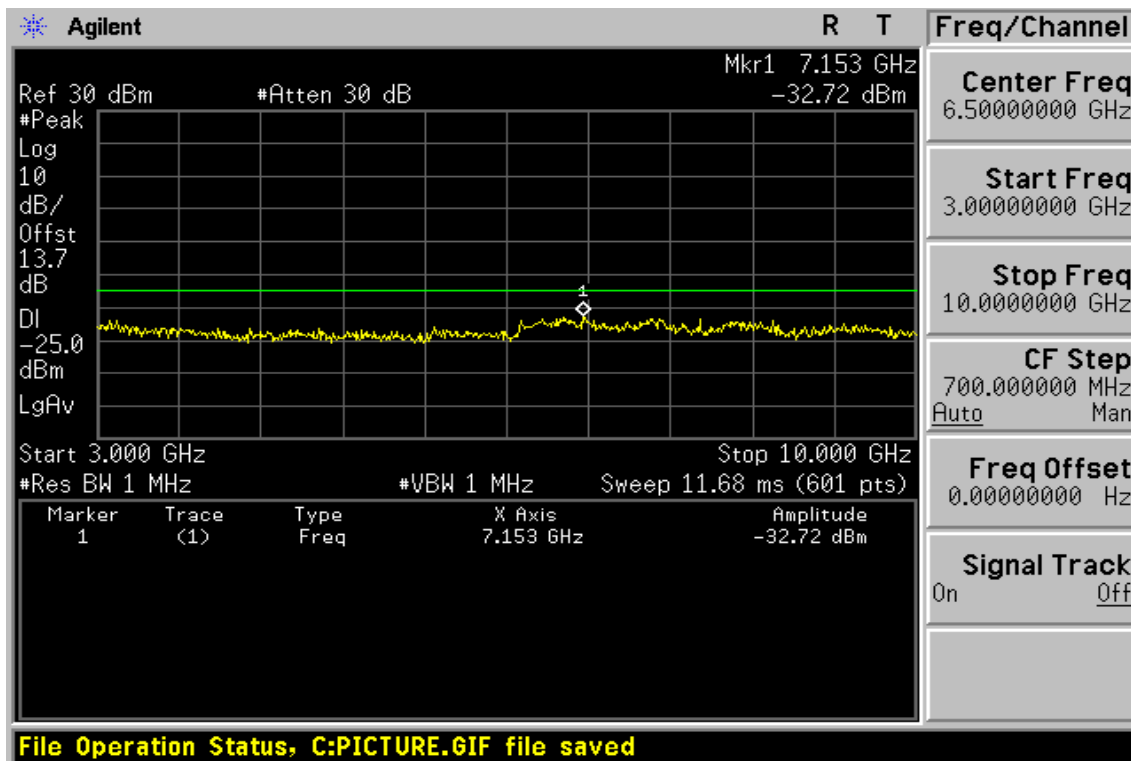
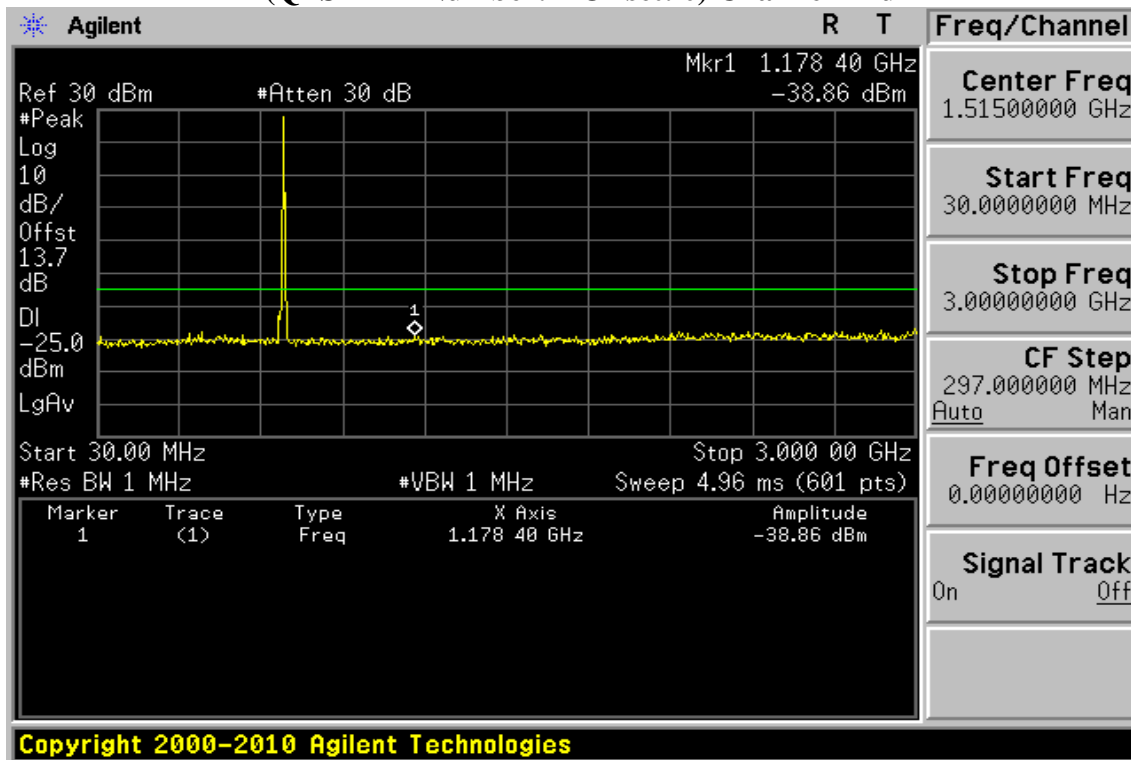
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**Figure 9-267: Out of Band emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Mid**



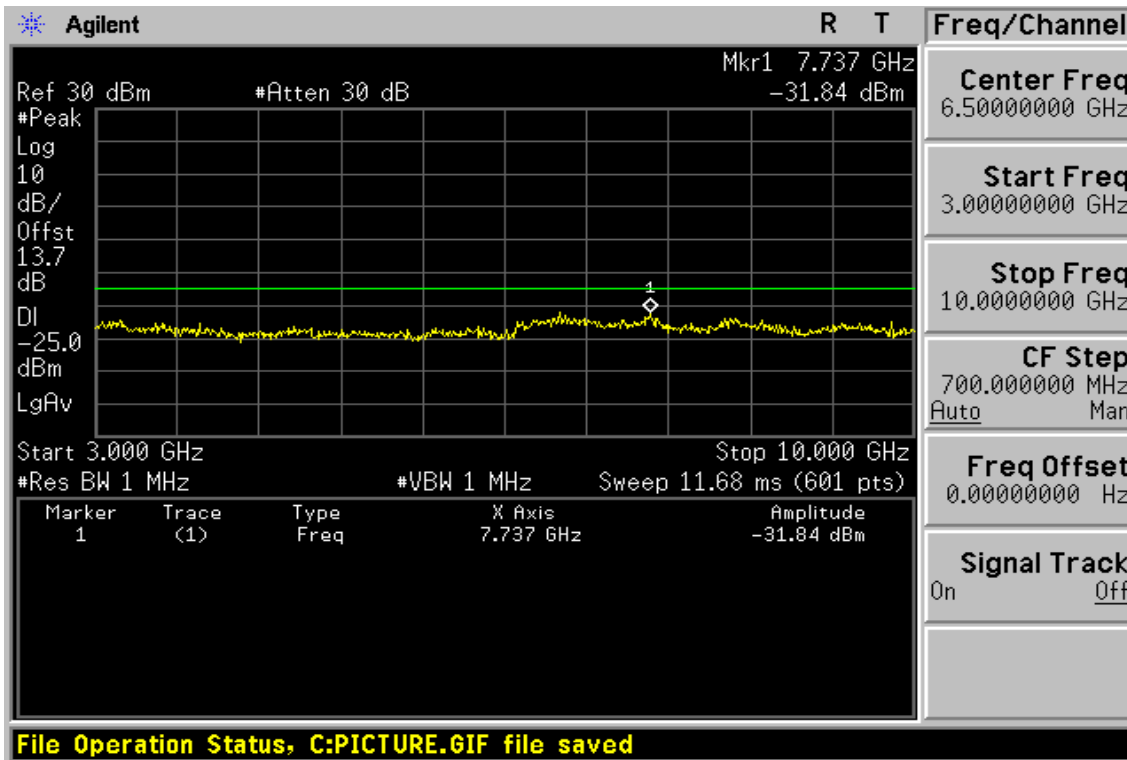
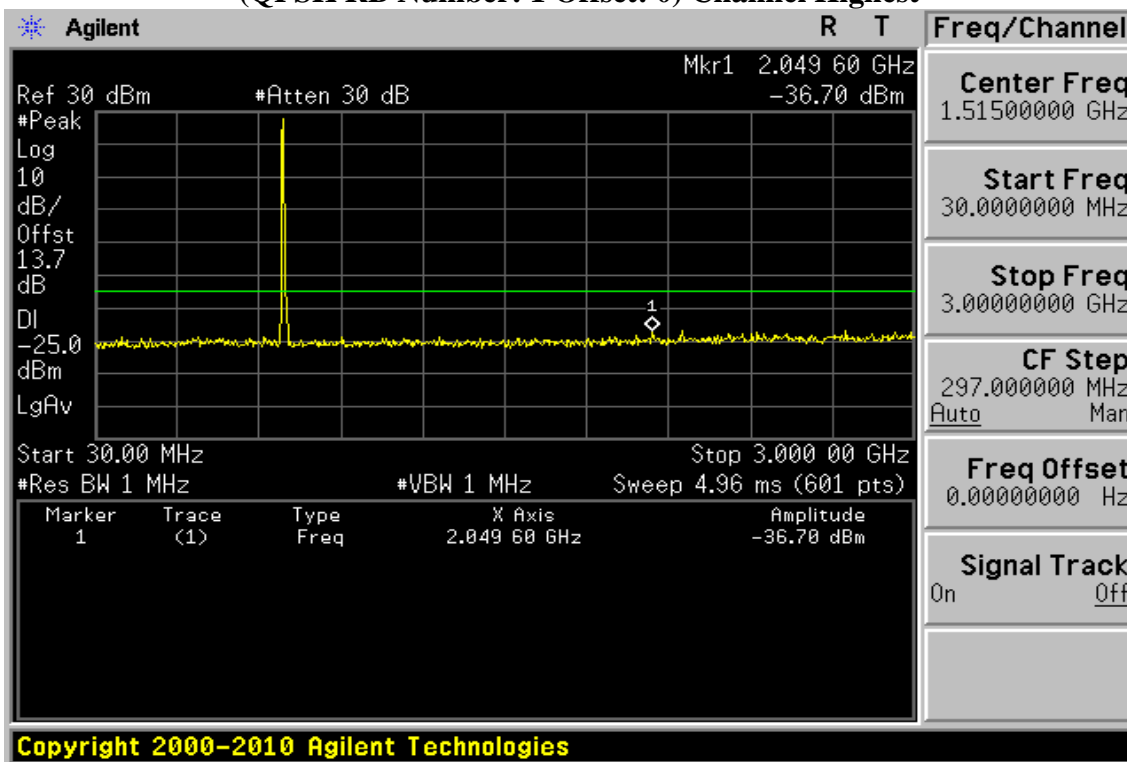
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**Figure 9-268: Out of Band emission at antenna terminals–5MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 12**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :701.5 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1403.00	H	---	-13.00	---
2104.50	H	---	-13.00	---
2806.00	H	---	-13.00	---
3507.50	H	---	-13.00	---
4209.00	H	---	-13.00	---
4910.50	H	---	-13.00	---
5612.00	H	---	-13.00	---
6313.50	H	---	-13.00	---
7015.00	H	---	-13.00	---
7153.00	S	-32.29	-13.00	19.29

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :707.5 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1415.00	H	---	-13.00	---
2122.50	H	---	-13.00	---
2830.00	H	---	-13.00	---
3537.50	H	---	-13.00	---
4245.00	H	---	-13.00	---
4952.50	H	---	-13.00	---
5660.00	H	---	-13.00	---
6367.50	H	---	-13.00	---
7075.00	H	---	-13.00	---
153.00	S	-32.72	-13.00	19.72

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :713.5 MHz Engineer :Nick  
 Operation Mode :TX High

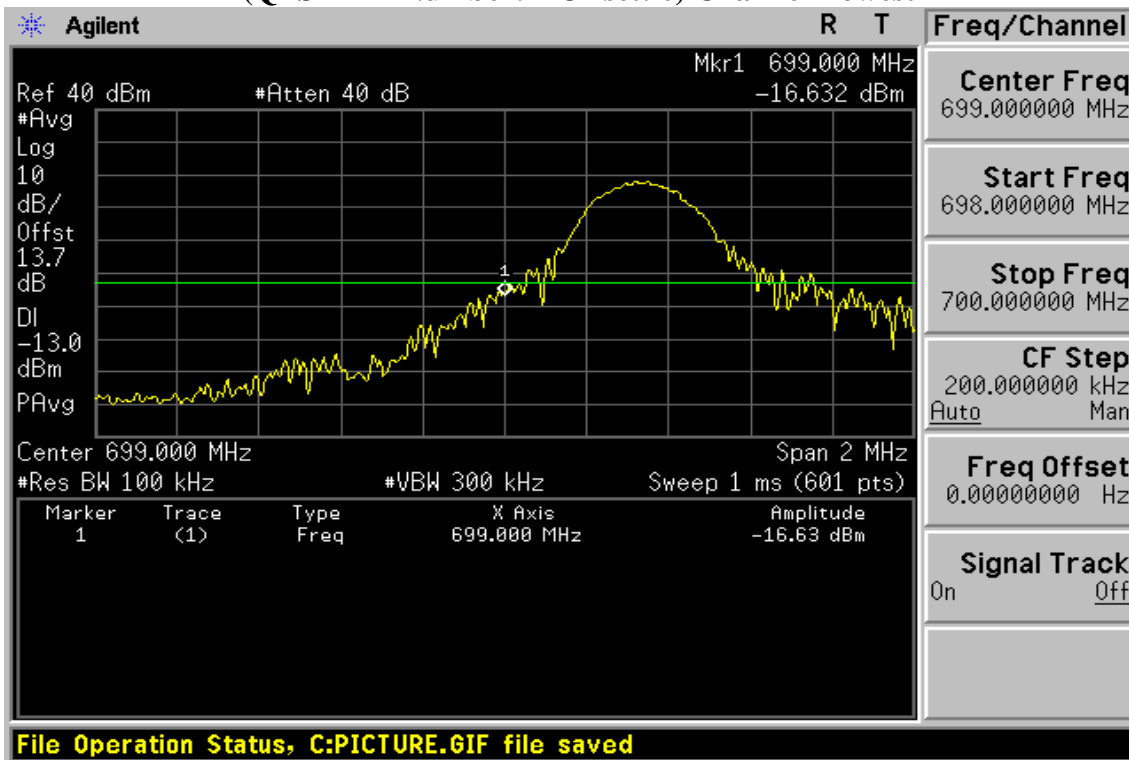
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1427.00	H	---	-13.00	---
2140.50	H	---	-13.00	---
2854.00	H	---	-13.00	---
3567.50	H	---	-13.00	---
4281.00	H	---	-13.00	---
4994.50	H	---	-13.00	---
5708.00	H	---	-13.00	---
6421.50	H	---	-13.00	---
7135.00	H	---	-13.00	---
7737.00	S	-31.84	-13.00	18.84

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

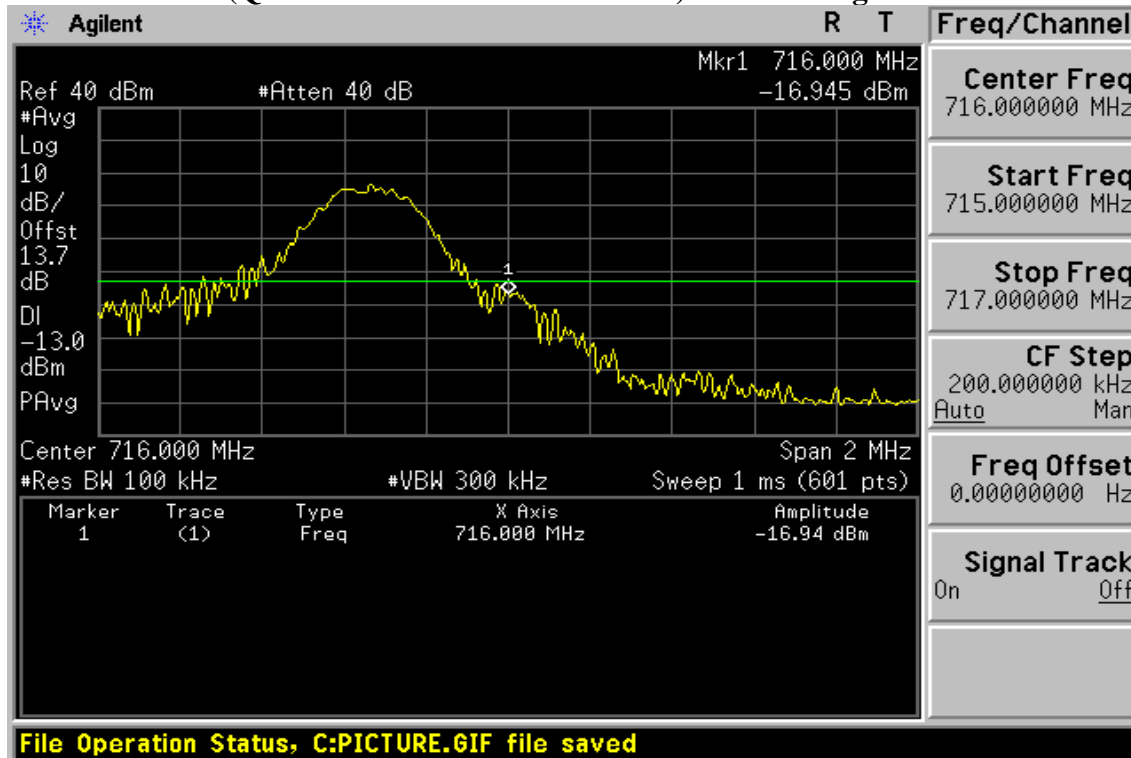
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**Figure 9-269: Band edge emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-270: Band edge emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 12**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)**

Test Mode                      5MHz BW LTE-Band 12      Engineer    :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
699.000	-16.63	-13.00	3.63
716.000	-16.94	-13.00	3.94

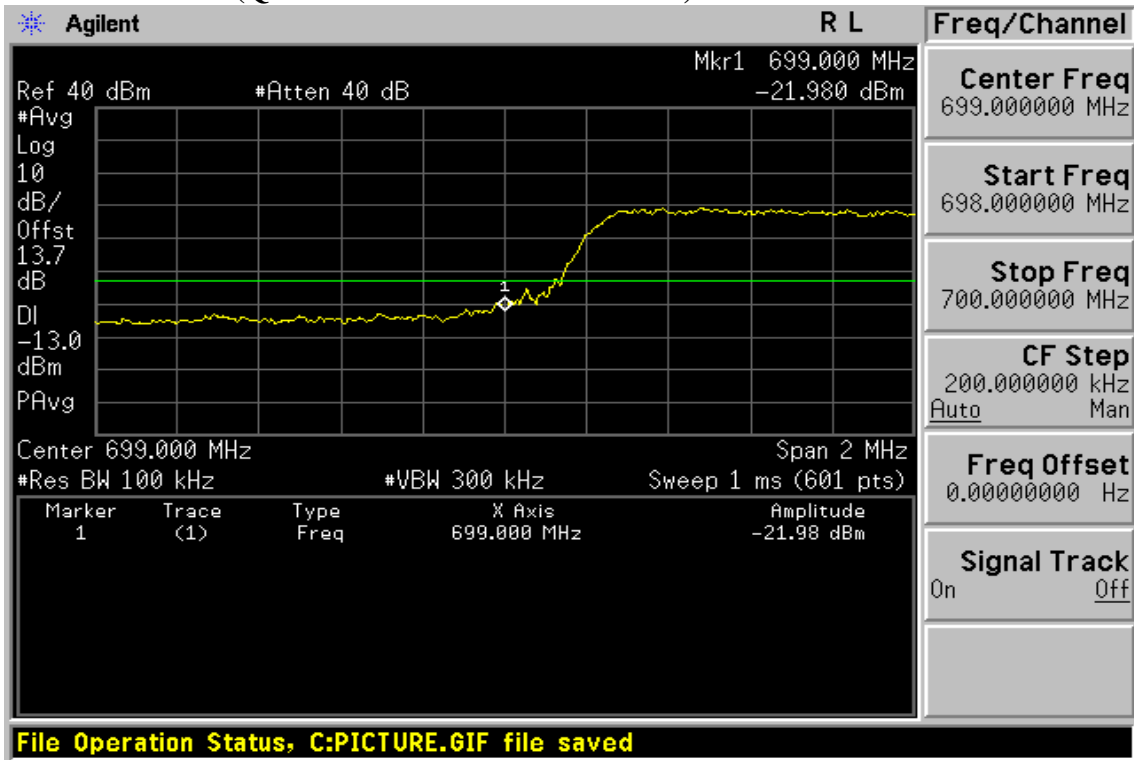
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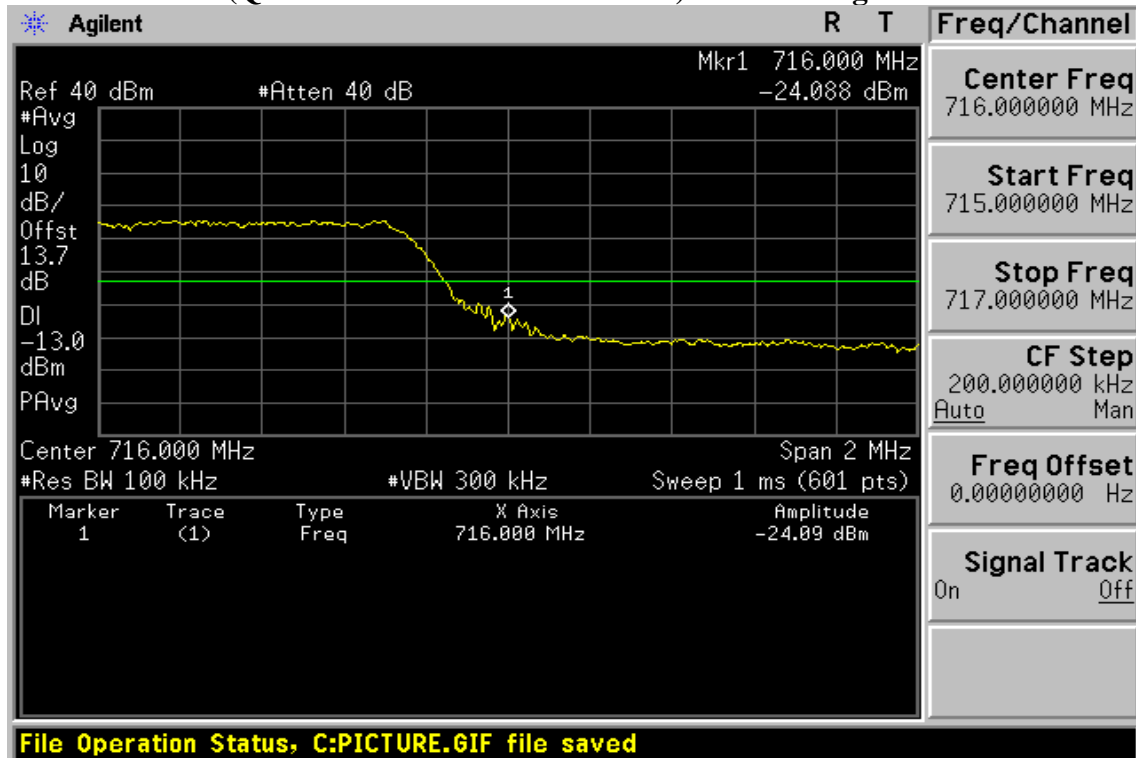
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**Figure 9-271: Band edge emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-272: Band edge emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 12**

**(QPSK RB Number: 25 Offset: 0)**

Test Mode                      5MHz BW LTE-Band 12      Engineer    :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
699.000	-21.98	-13.00	8.98
716.000	-24.09	-13.00	11.09

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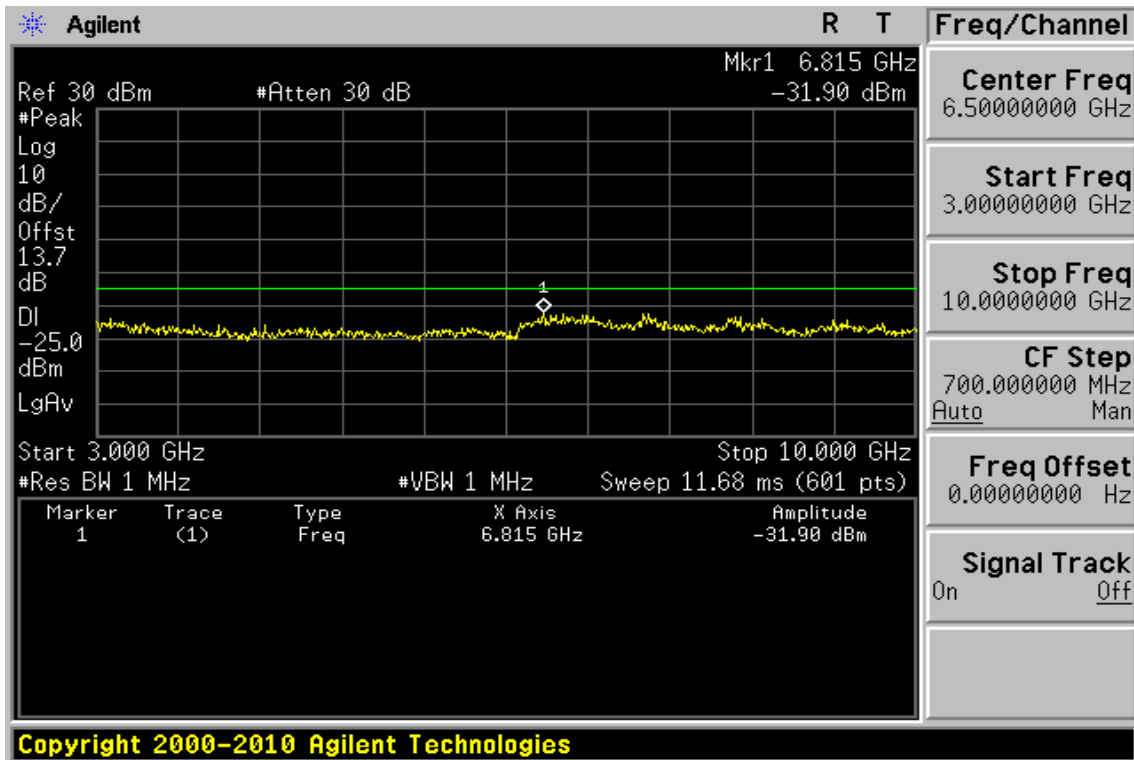
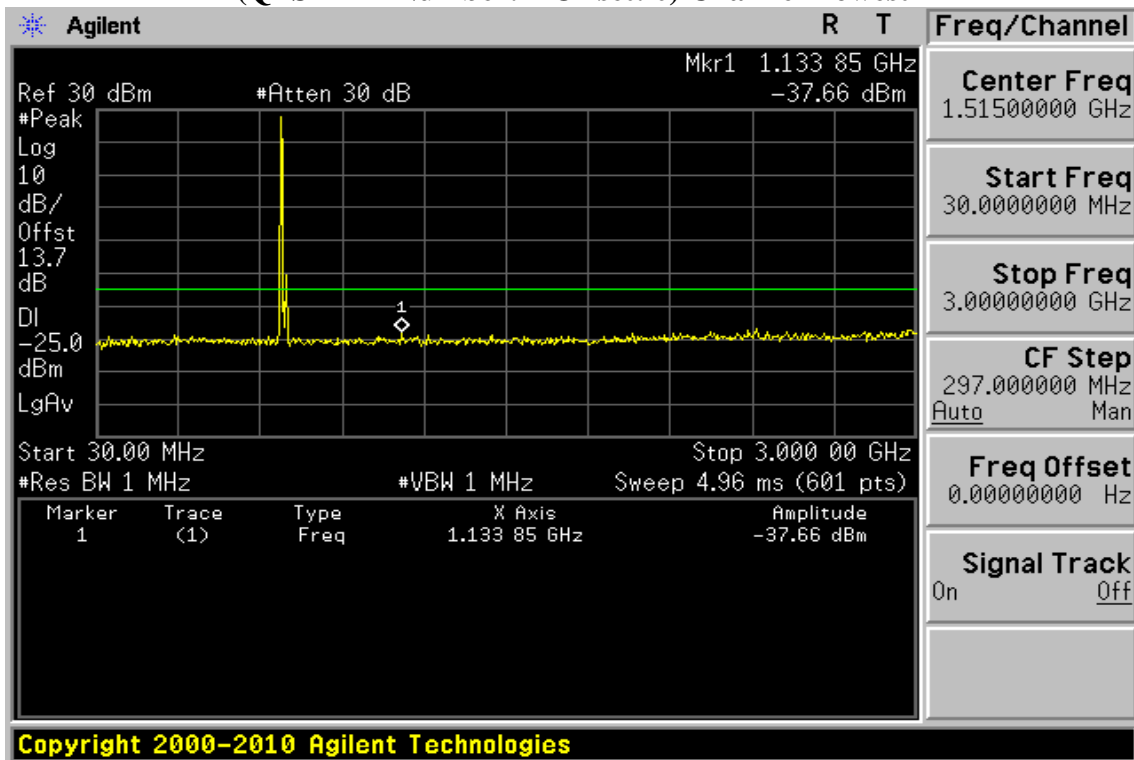
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**Figure 9-273: Out of Band emission at antenna terminals–10MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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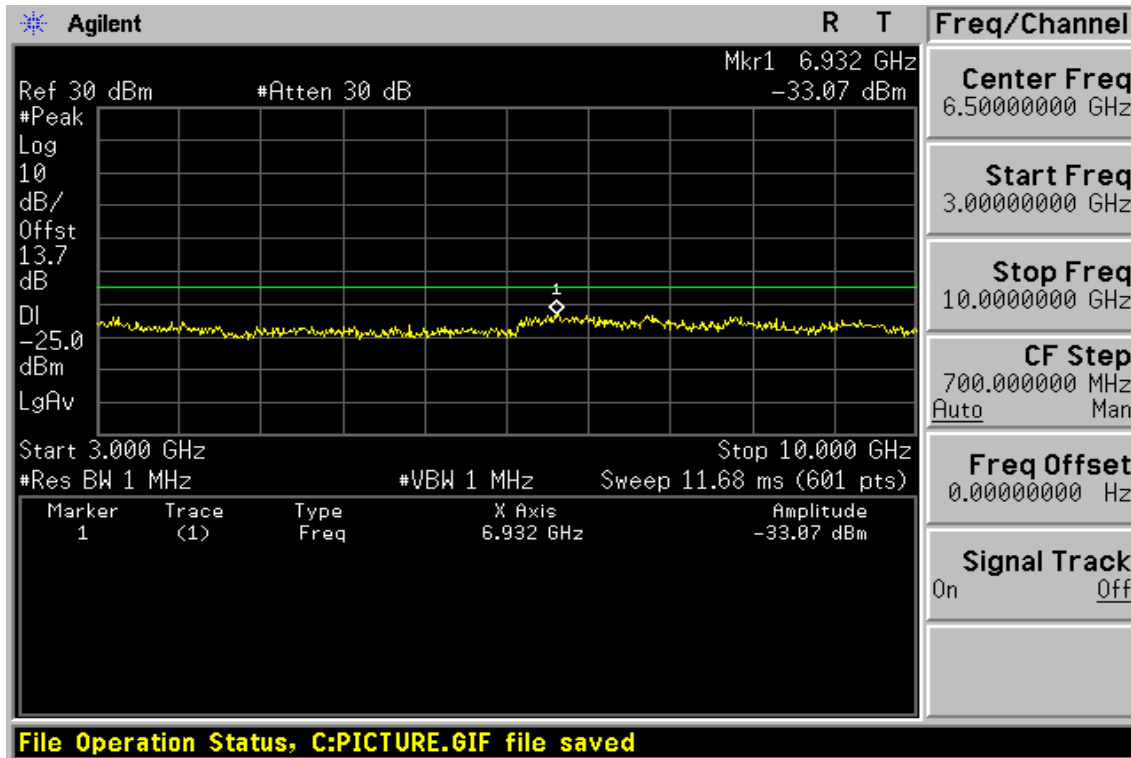
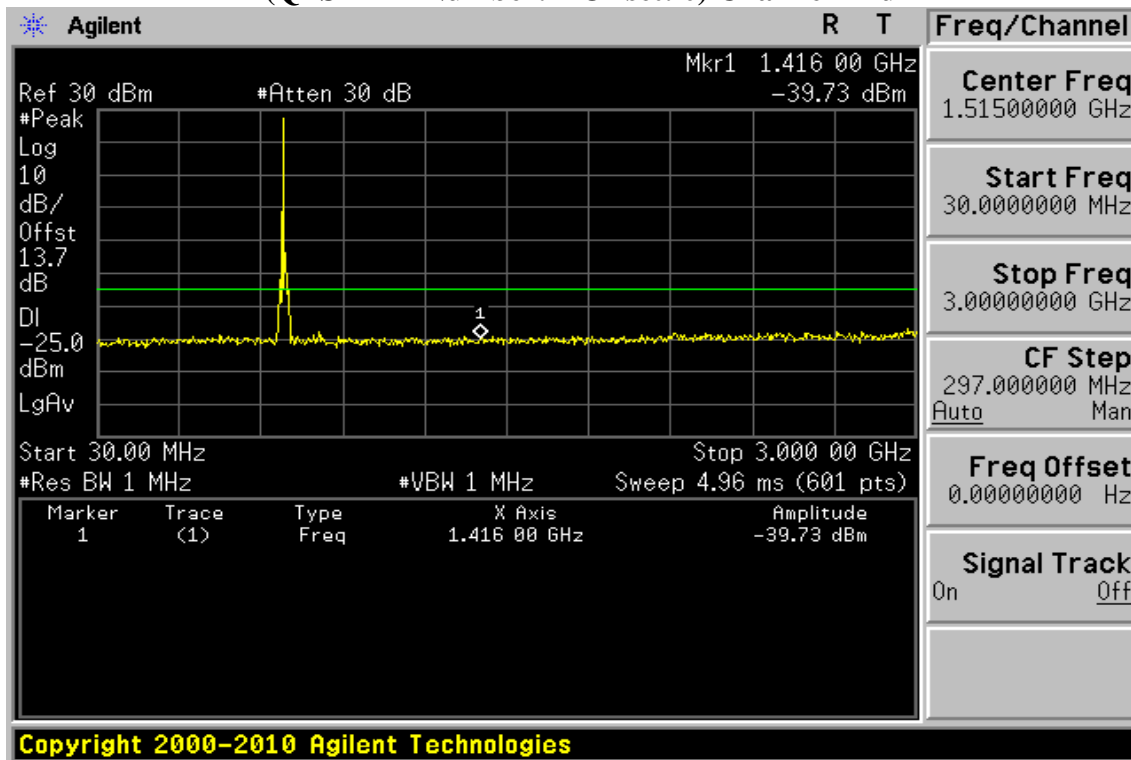
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**Figure 9-274: Out of Band emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Mid**

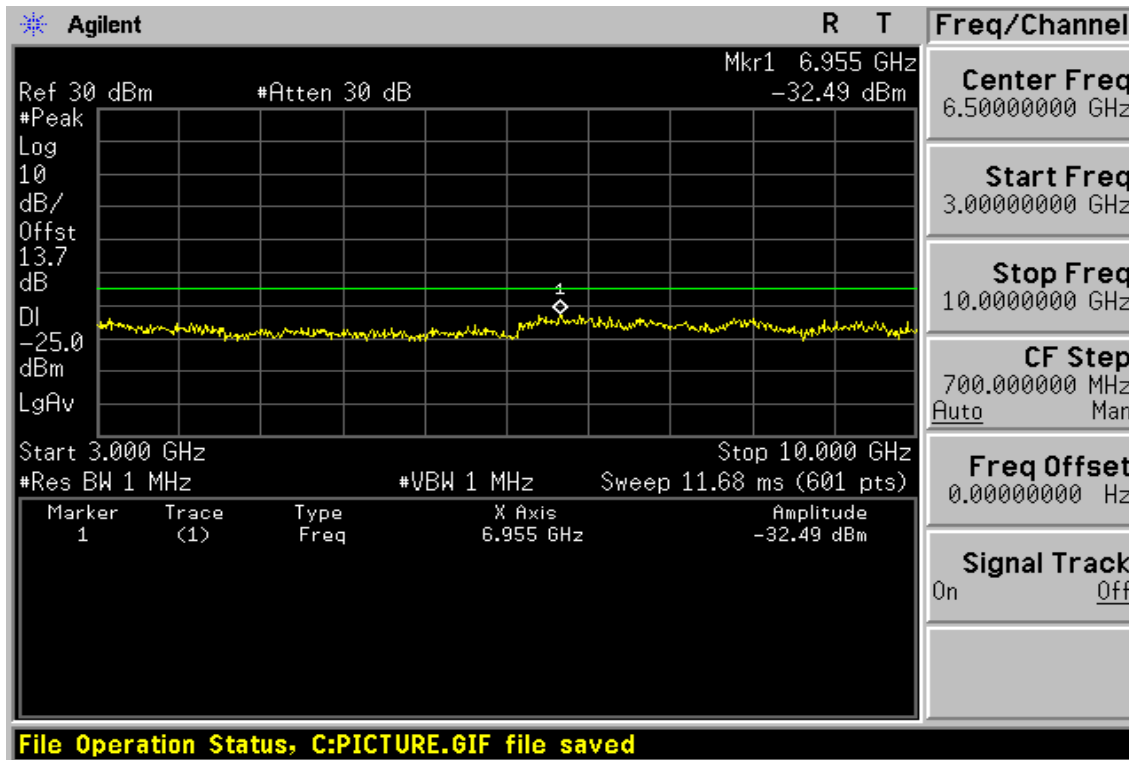
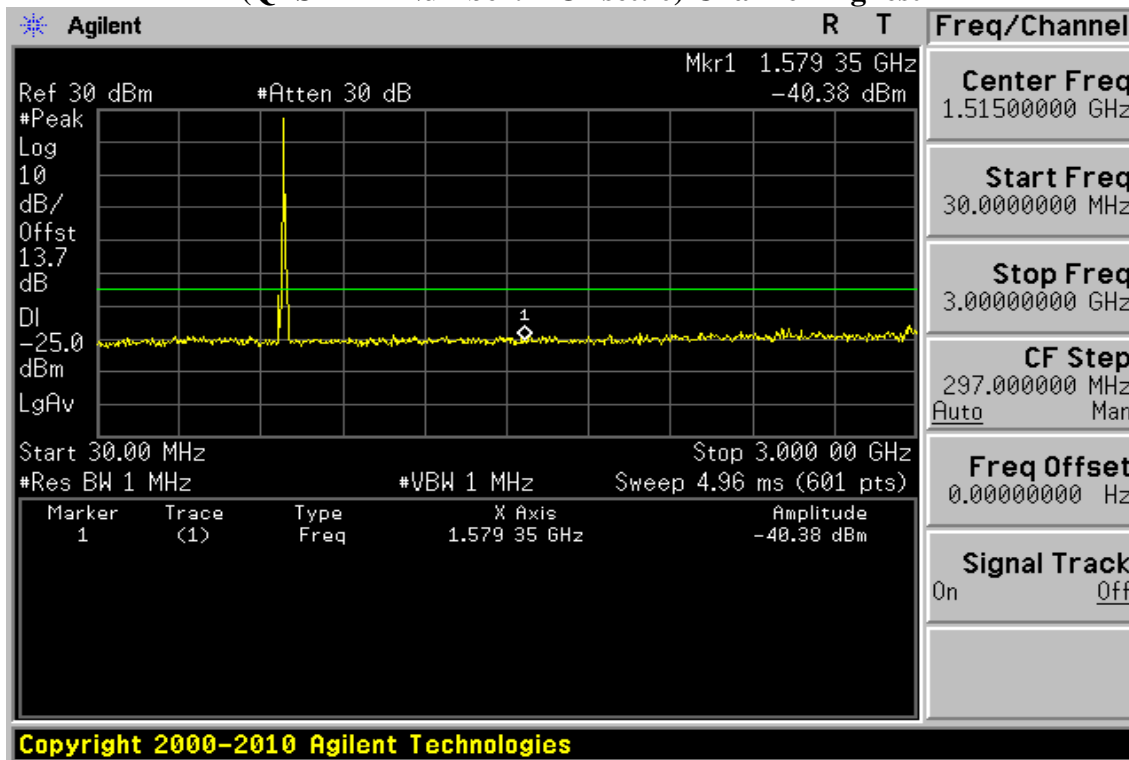


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**Figure 9-275: Out of Band emission at antenna terminals–10MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 12**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :704.0 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1414.00	H	---	-13.00	---
2121.00	H	---	-13.00	---
2828.00	H	---	-13.00	---
3535.00	H	---	-13.00	---
4242.00	H	---	-13.00	---
4949.00	H	---	-13.00	---
5656.00	H	---	-13.00	---
6363.00	H	---	-13.00	---
6815.00	S	-31.90	-13.00	18.90
7070.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :707.5 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1415.00	H	---	-13.00	---
2122.50	H	---	-13.00	---
2830.00	H	---	-13.00	---
3537.50	H	---	-13.00	---
4245.00	H	---	-13.00	---
4952.50	H	---	-13.00	---
5660.00	H	---	-13.00	---
6367.50	H	---	-13.00	---
6932.00	S	-33.07	-13.00	20.07
7075.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :711.0 MHz Engineer :Nick  
 Operation Mode :TX High

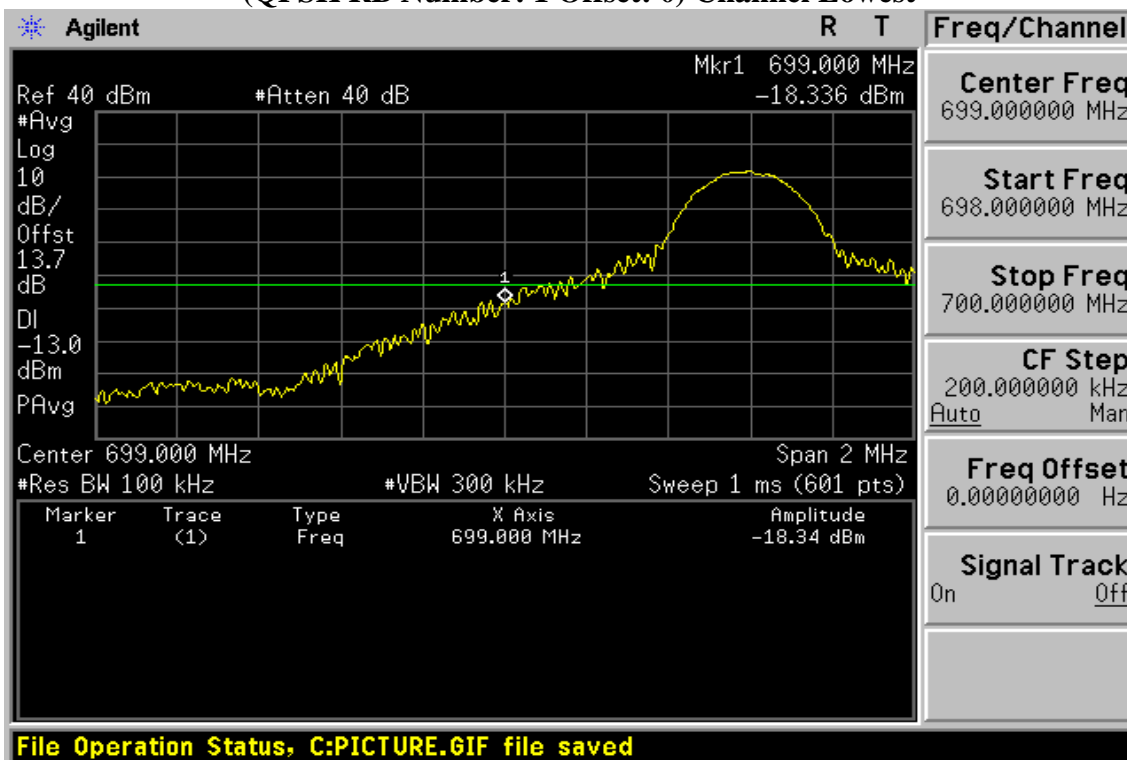
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1422.00	H	---	-13.00	---
2133.00	H	---	-13.00	---
2844.00	H	---	-13.00	---
3555.00	H	---	-13.00	---
4266.00	H	---	-13.00	---
4977.00	H	---	-13.00	---
5688.00	H	---	-13.00	---
6399.00	H	---	-13.00	---
6955.00	S	-32.49	-13.00	19.49
7110.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

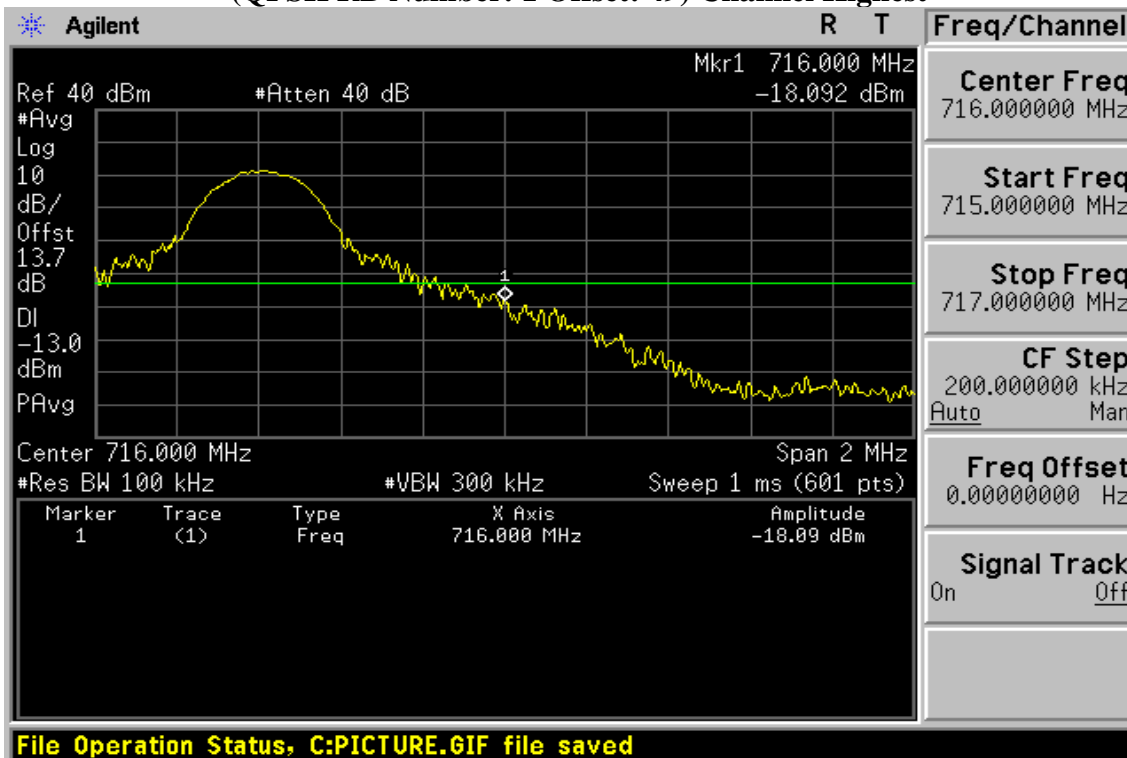
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**Figure 9-276: Band edge emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-277: Band edge emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 12**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)**

Test Mode 10MHz BW LTE-Band 12 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
699.000	-18.34	-13.00	5.34
716.000	-18.09	-13.00	5.09

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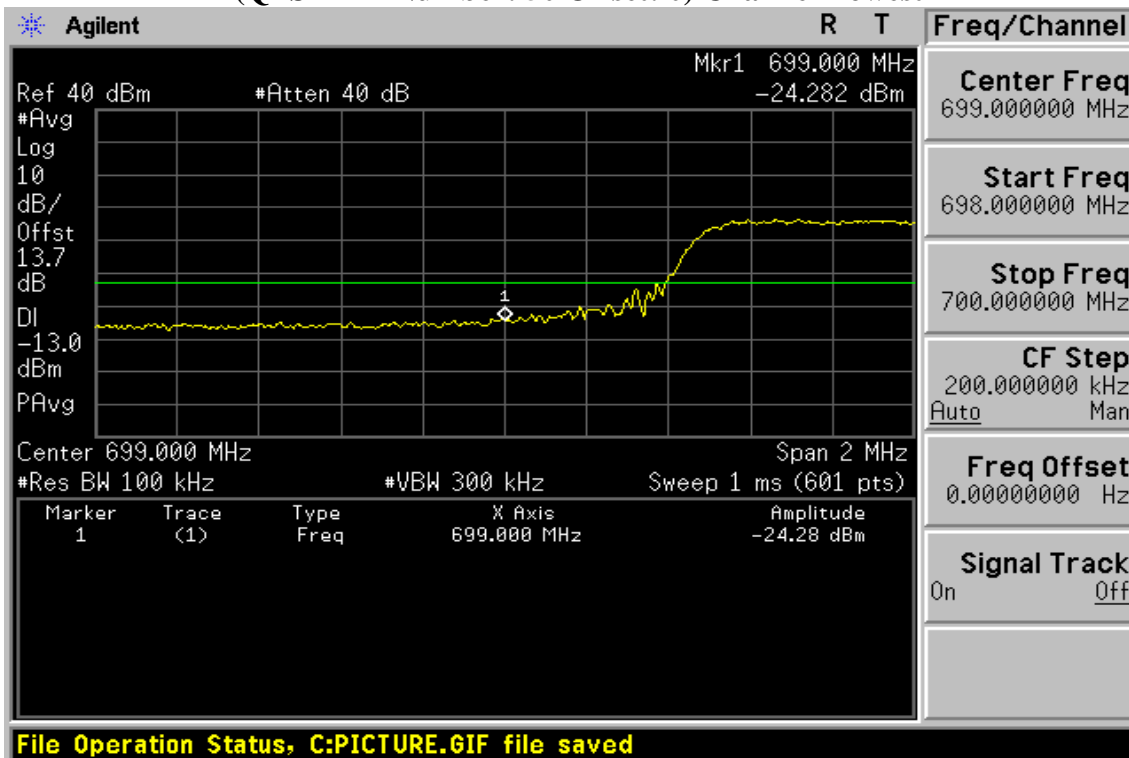
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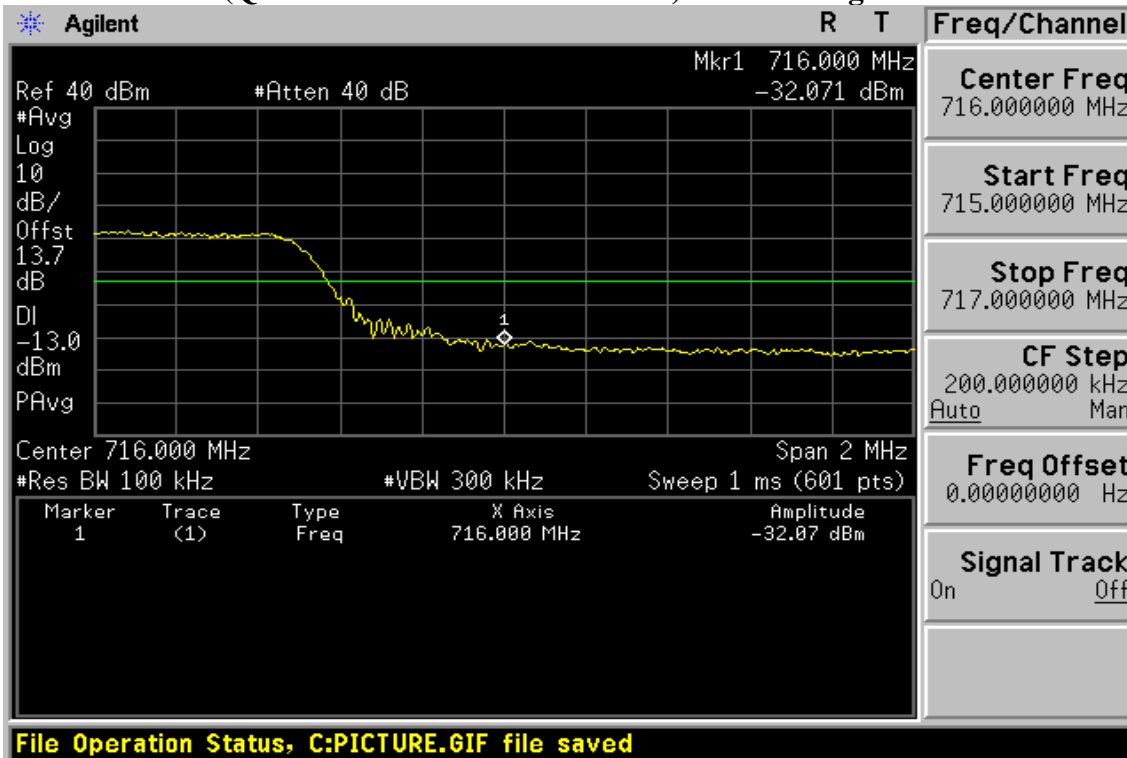
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**Figure 9-278: Band edge emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-279: Band edge emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 12**

**(QPSK RB Number: 50 Offset: 0)**

Test Mode                      10MHz BW LTE-Band 12    Engineer    :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
699.000	-24.28	-13.00	11.28
716.000	-32.07	-13.00	19.07

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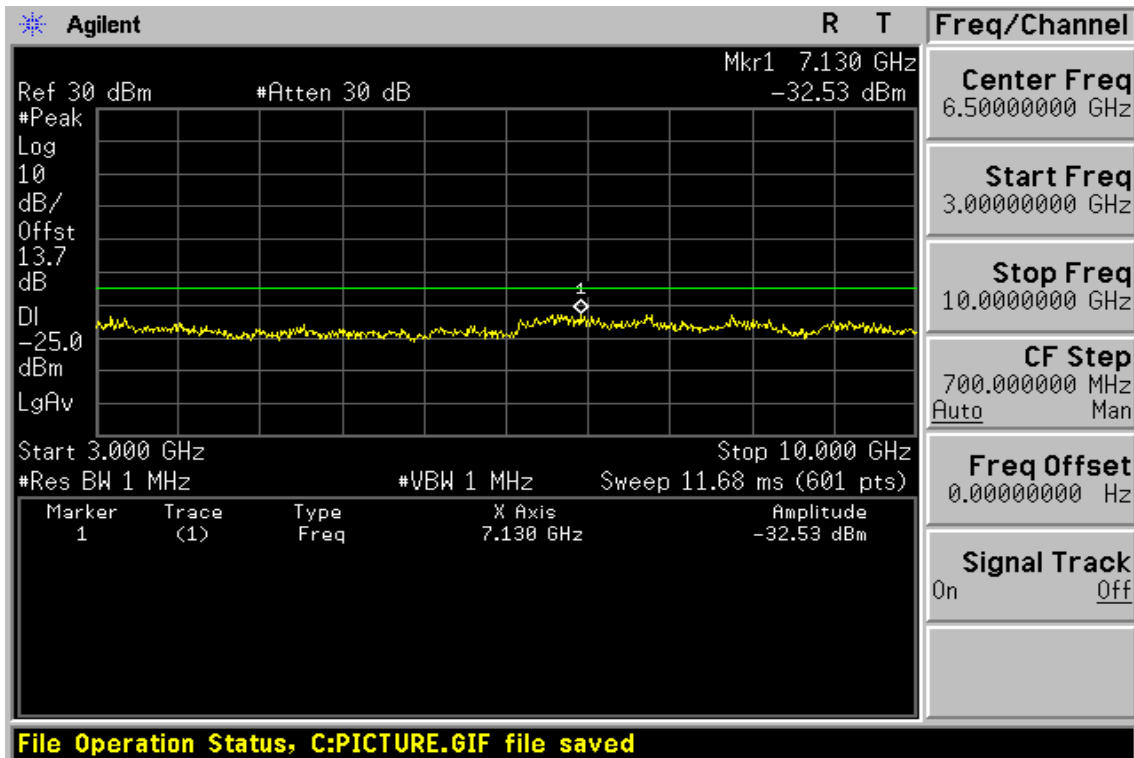
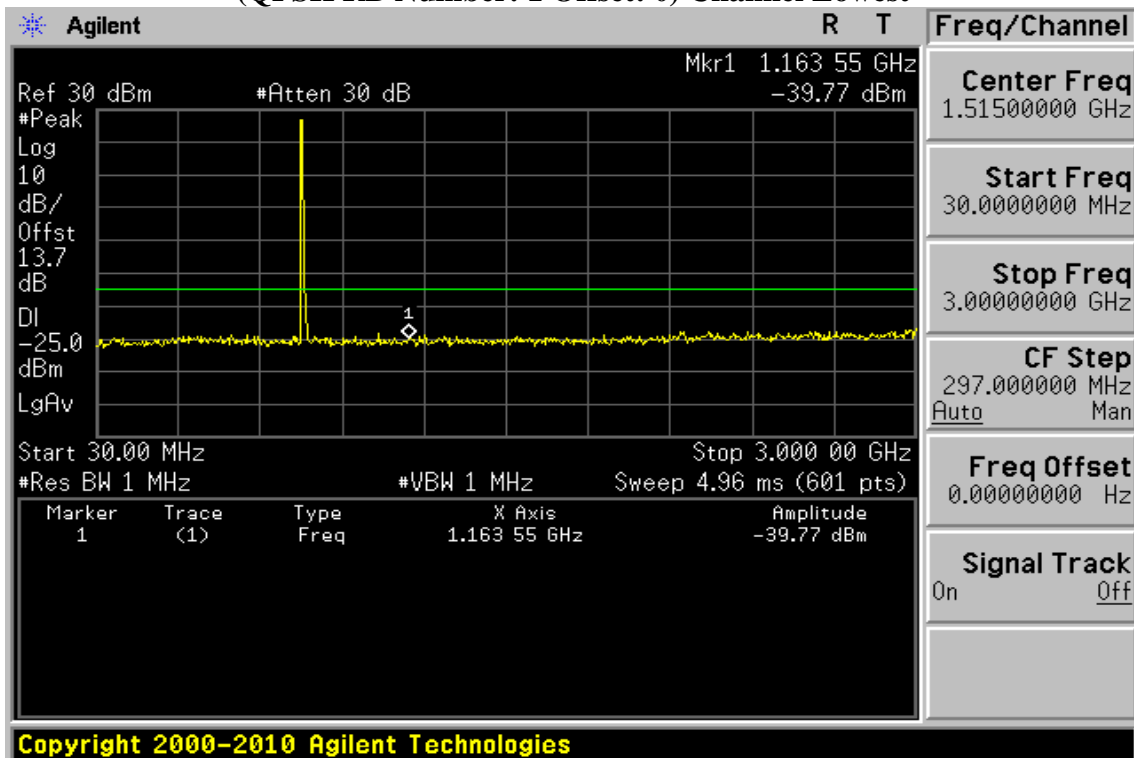
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**Figure 9-280: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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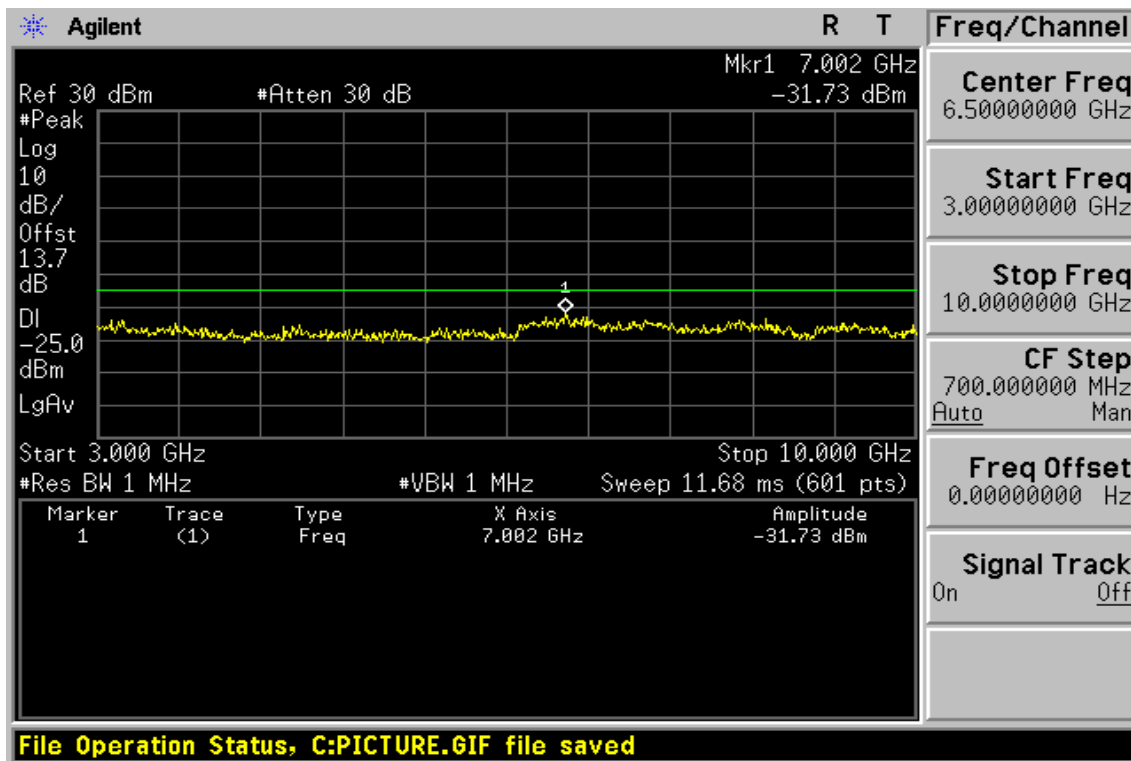
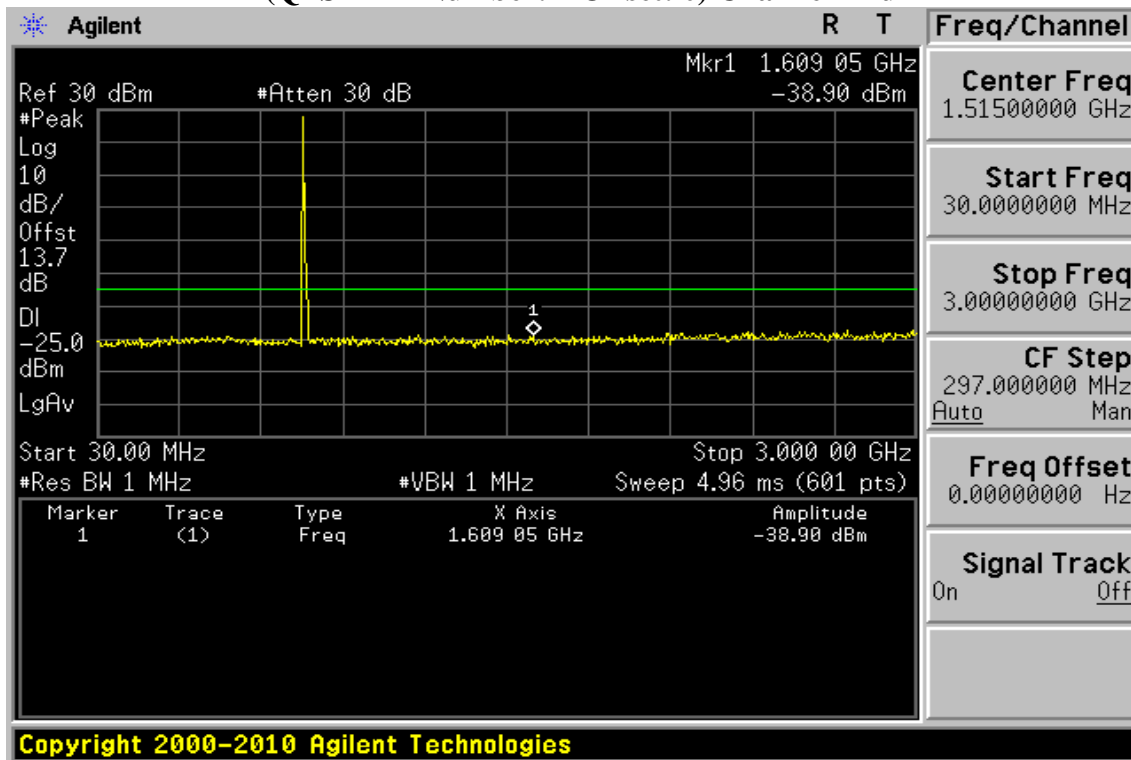
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**Figure 9-281: Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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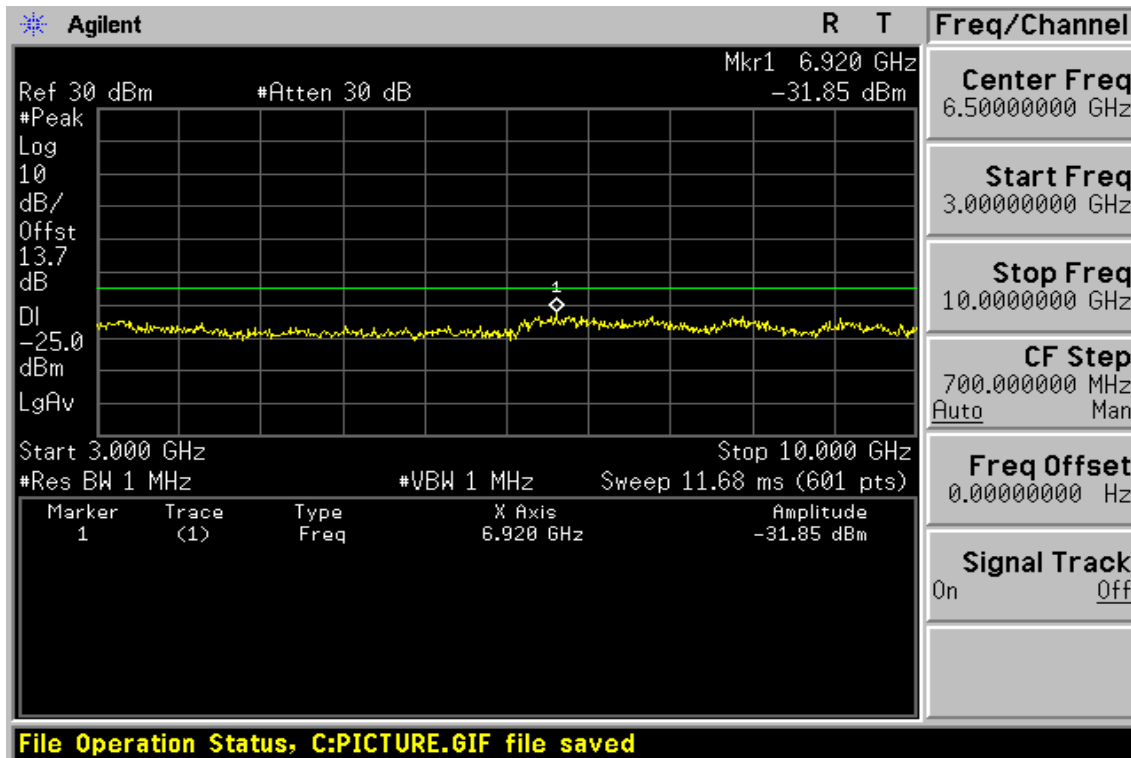
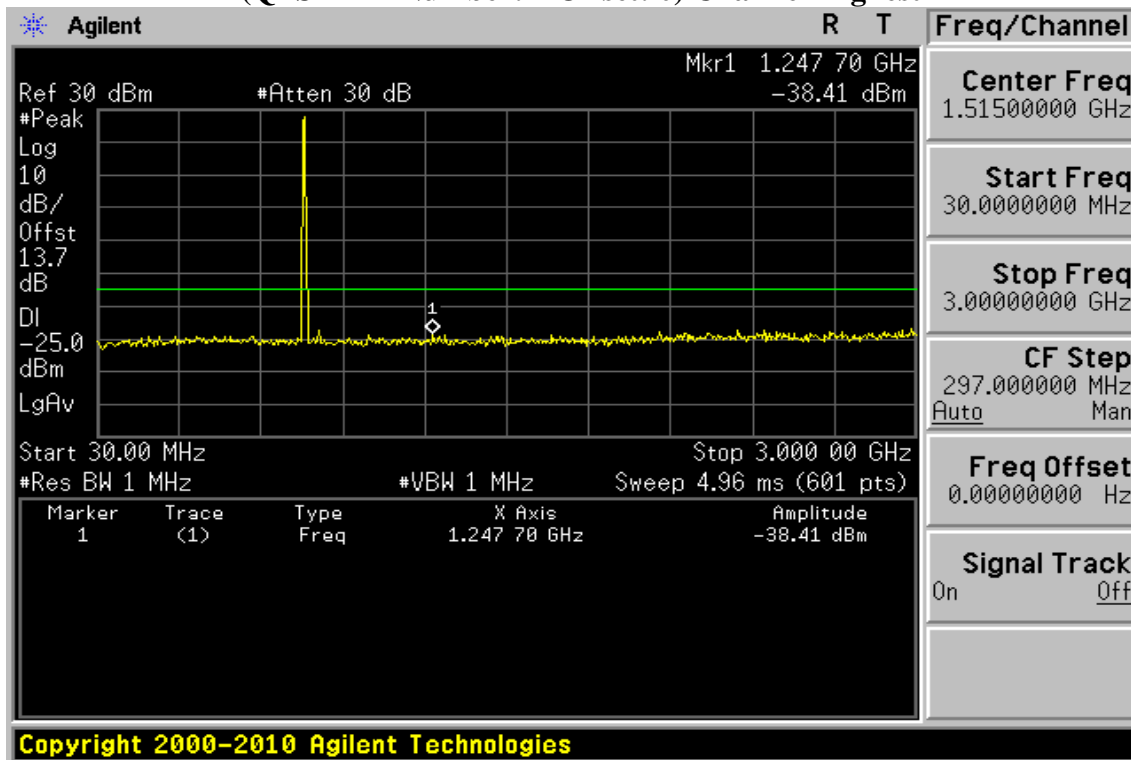
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**Figure 9-282: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 13**

Fundamental Frequency :782.0 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
773.440	-61.081	-35.00	26.08
773.500	-63.586	-35.00	28.59
793.860	-84.809	-35.00	49.81
795.500	-82.394	-35.00	47.39

Fundamental Frequency :782.0 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
773.440	-61.081	-35.00	26.08
773.500	-63.586	-35.00	28.59
793.860	-84.809	-35.00	49.81
795.500	-82.394	-35.00	47.39

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Fundamental Frequency :784.5 MHz Engineer :Nick  
 Operation Mode :TX High

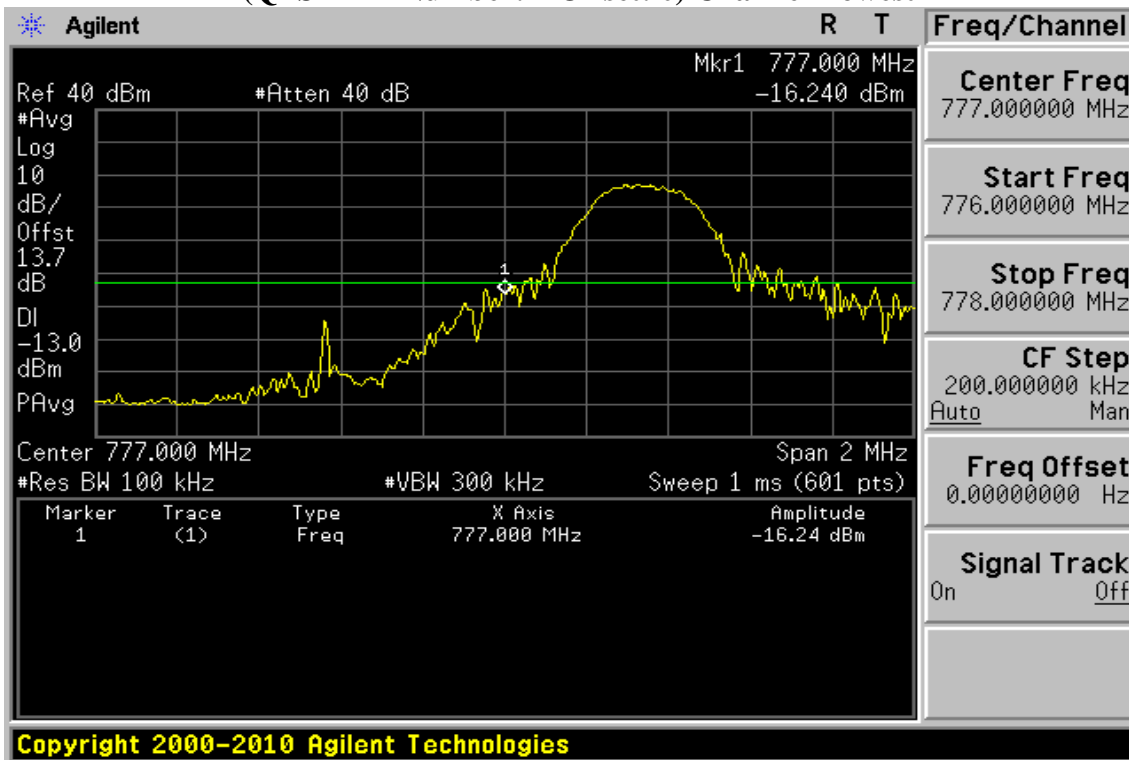
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1569.00	H	---	-13.00	---
2353.50	H	---	-13.00	---
3138.00	H	---	-13.00	---
3922.50	H	---	-13.00	---
4707.00	H	---	-13.00	---
5491.50	H	---	-13.00	---
6276.00	H	---	-13.00	---
6920.00	S	-31.85	-13.00	18.85
7060.50	H	---	-13.00	---
7845.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

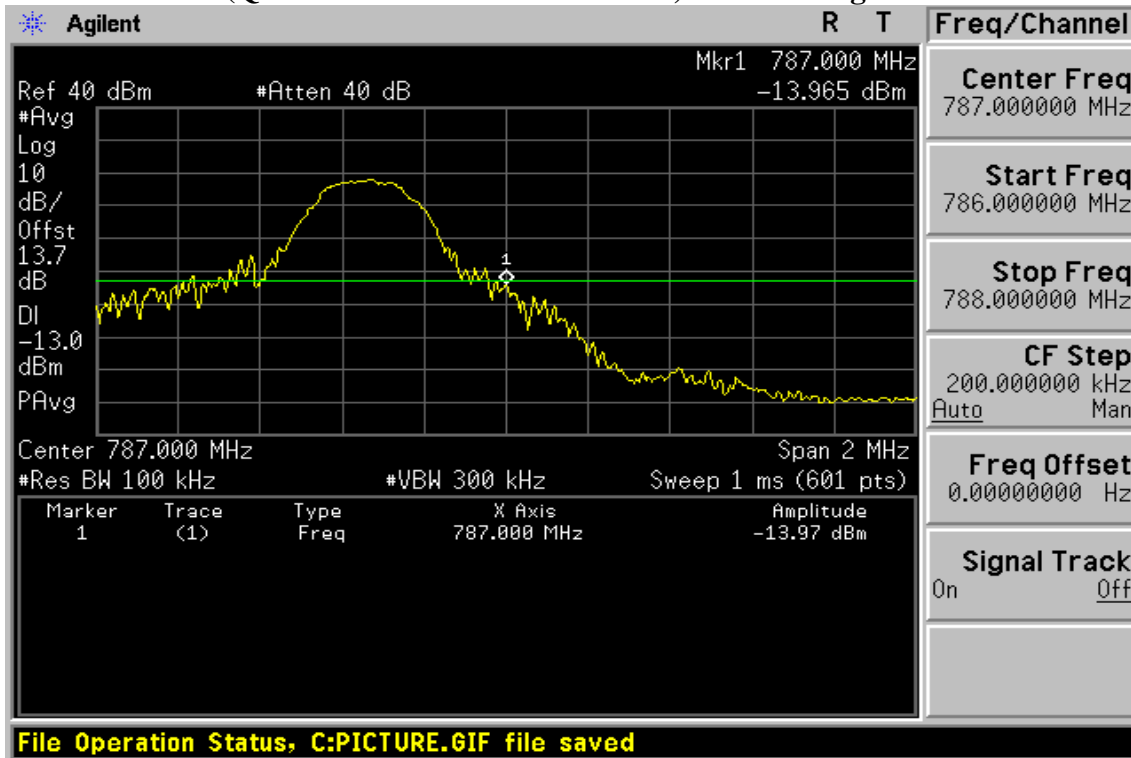
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**Figure 9-283: Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-284: Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 13**

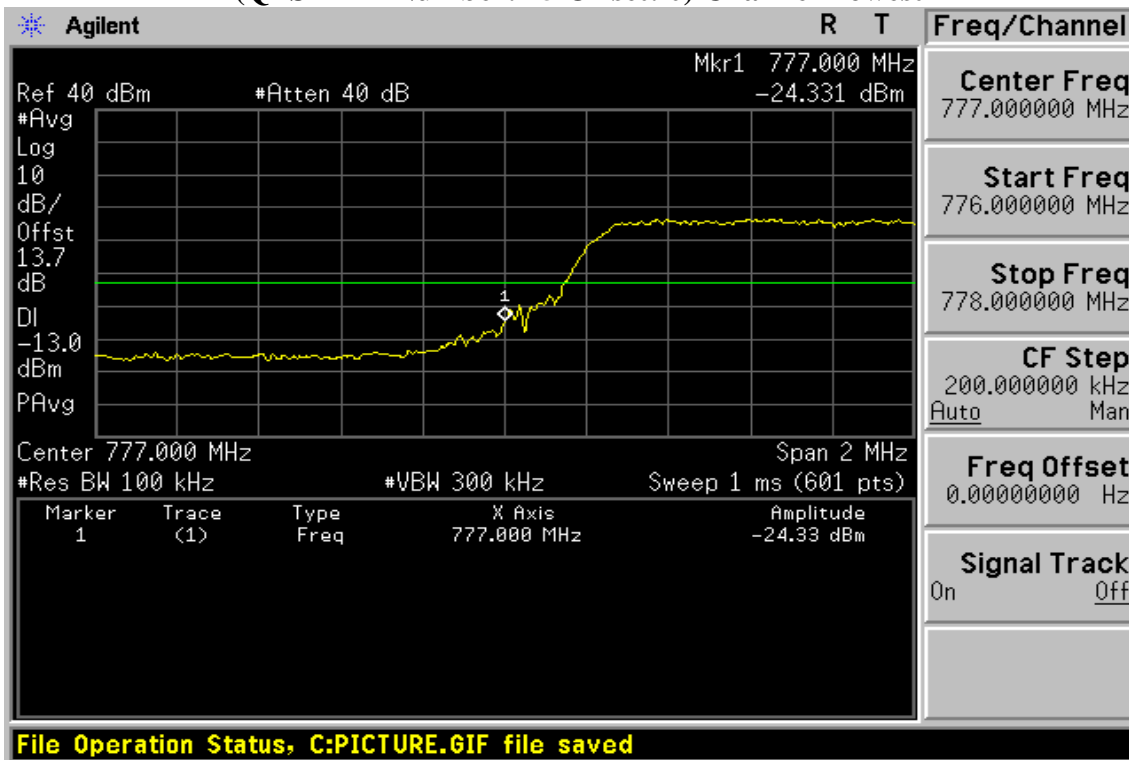
**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)**

Test Mode                      5MHz BW LTE-Band 13    Engineer    :Nick

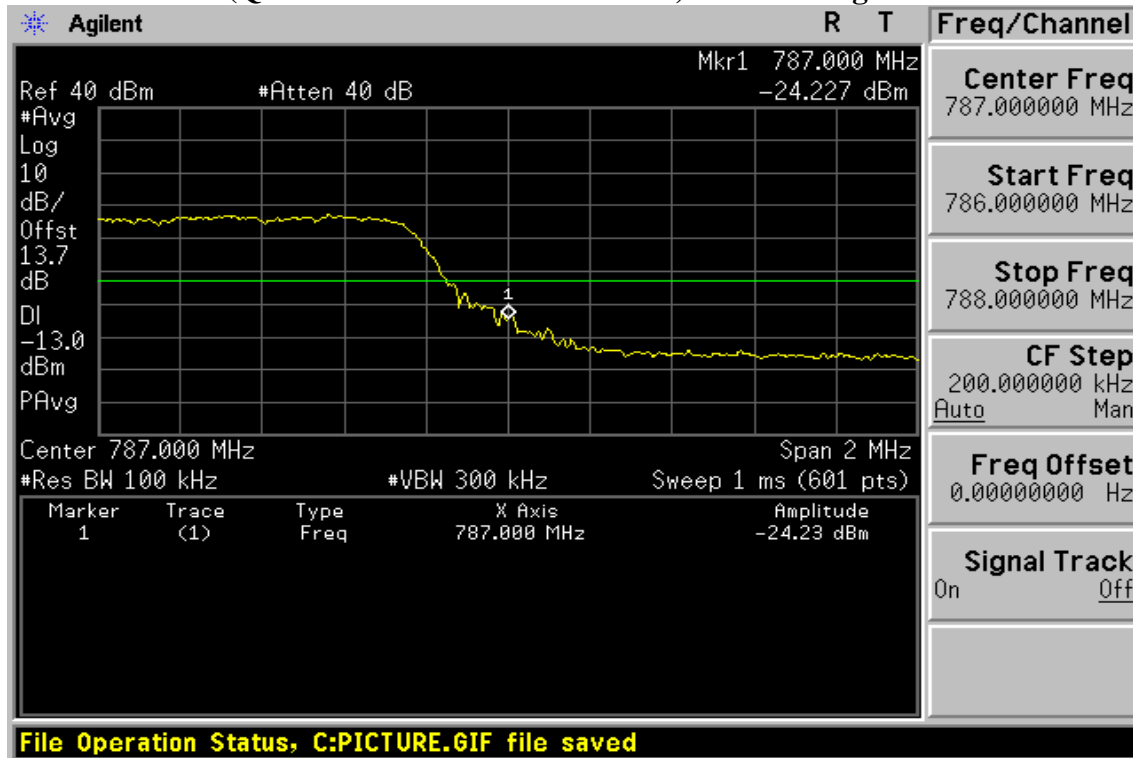
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
777.000	-16.24	-13.00	3.24
787.000	-13.97	-13.00	0.97

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**Figure 9-285: Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-286: Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 13**

**(QPSK RB Number: 25 Offset: 0)**

Test Mode                      5MHz BW LTE-Band 13      Engineer                                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
777.000	-24.33	-13.00	11.33
787.000	-24.23	-13.00	11.23

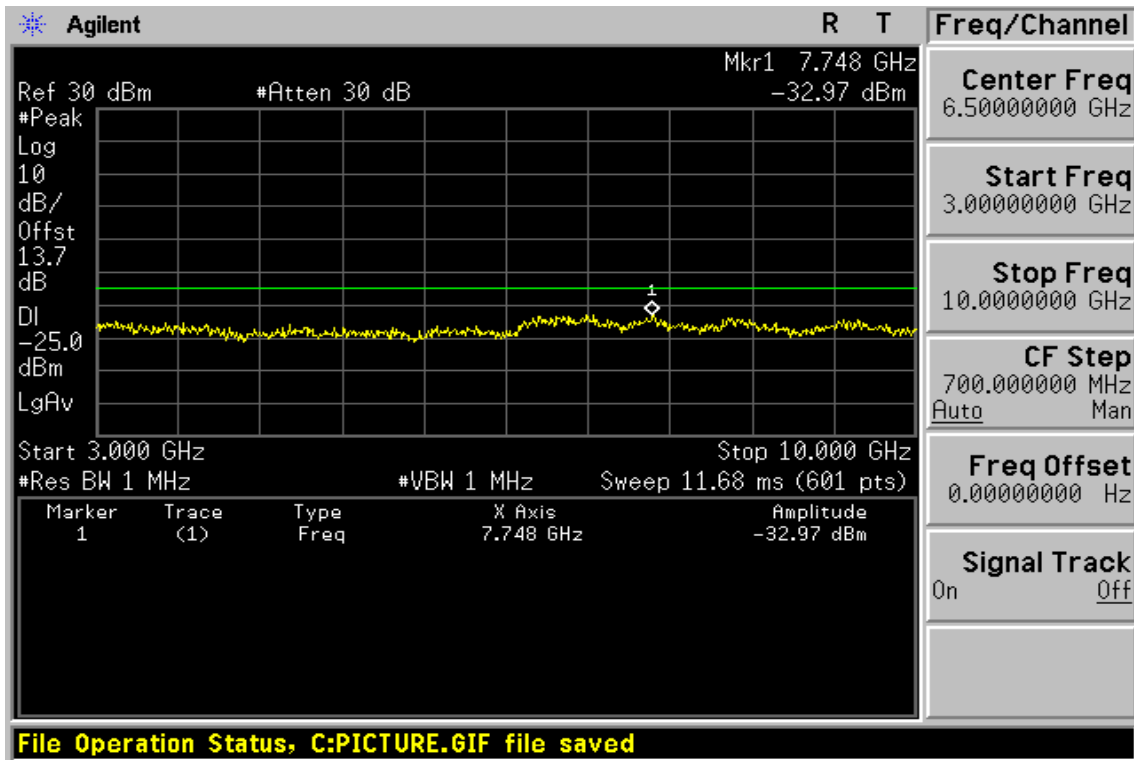
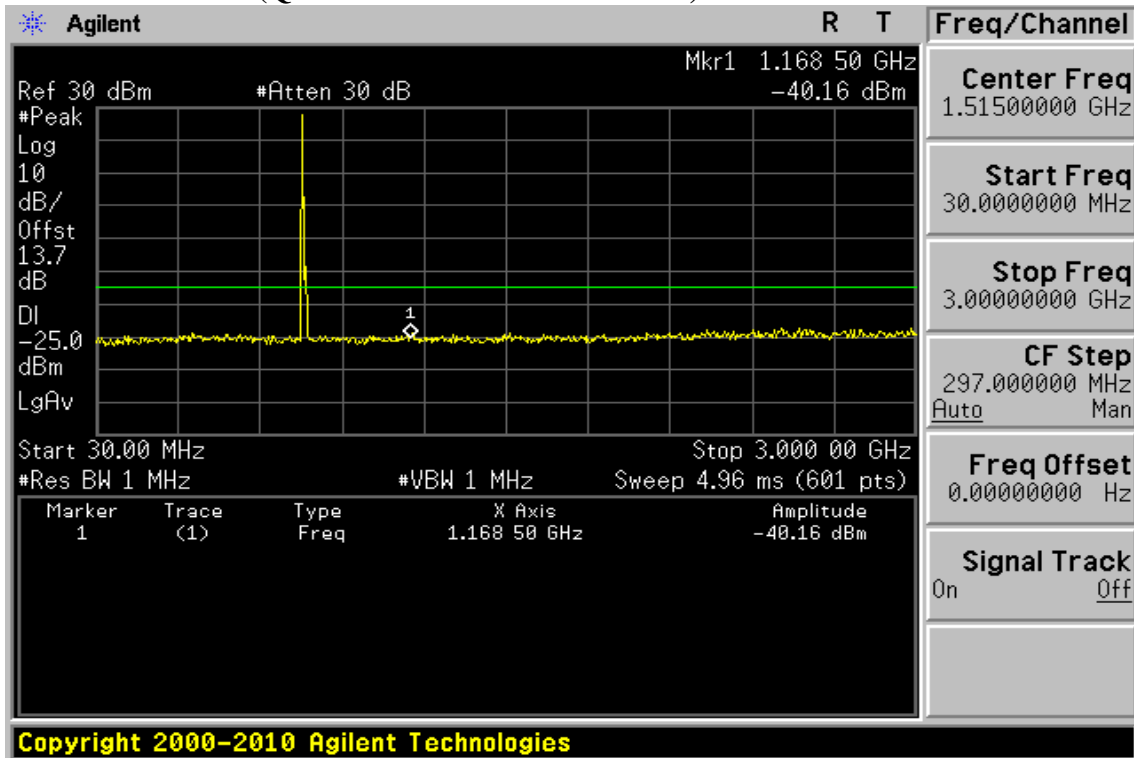
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**Figure 9-287: Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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**Out of Band emission at antenna terminals s10MHz BW LTE-Band 13**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :782.0 MHz Engineer :Nick  
 Operation Mode :TX low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1564.00	H	---	-13.00	---
2346.00	H	---	-13.00	---
3128.00	H	---	-13.00	---
3910.00	H	---	-13.00	---
4692.00	H	---	-13.00	---
5474.00	H	---	-13.00	---
6256.00	H	---	-13.00	---
7038.00	H	---	-13.00	---
7748.00	S	-32.97	-13.00	19.97
7820.00	H	---	-13.00	---

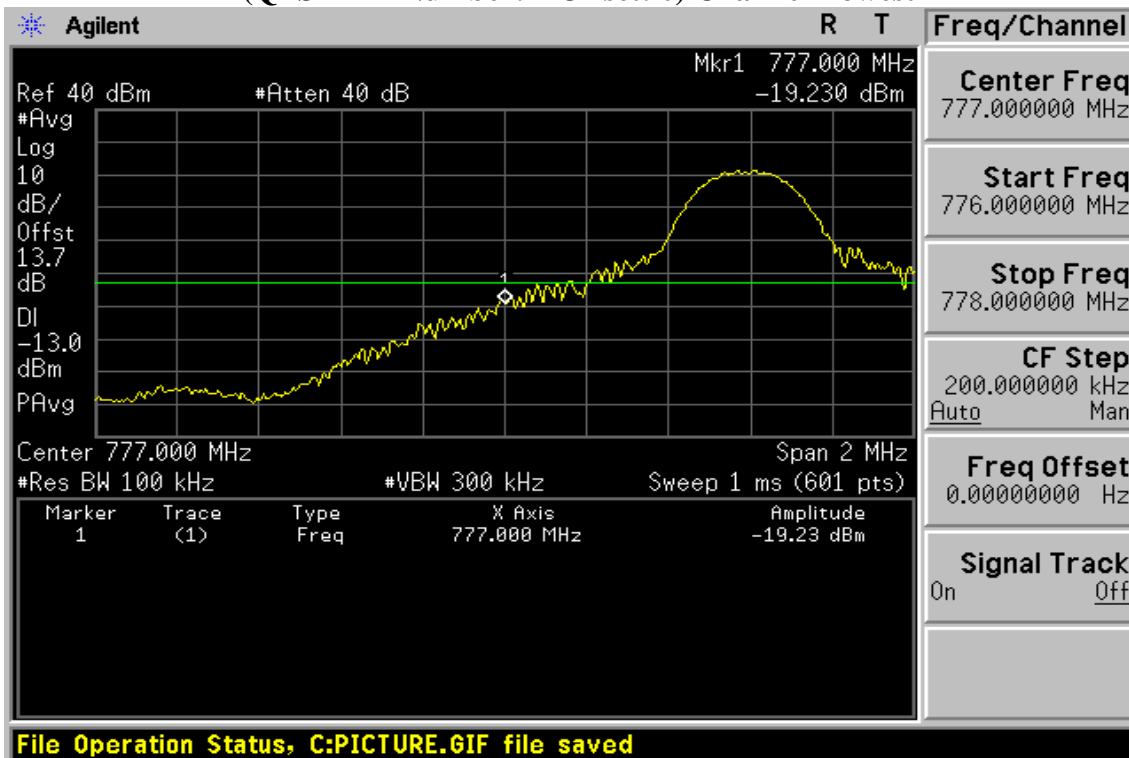
Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

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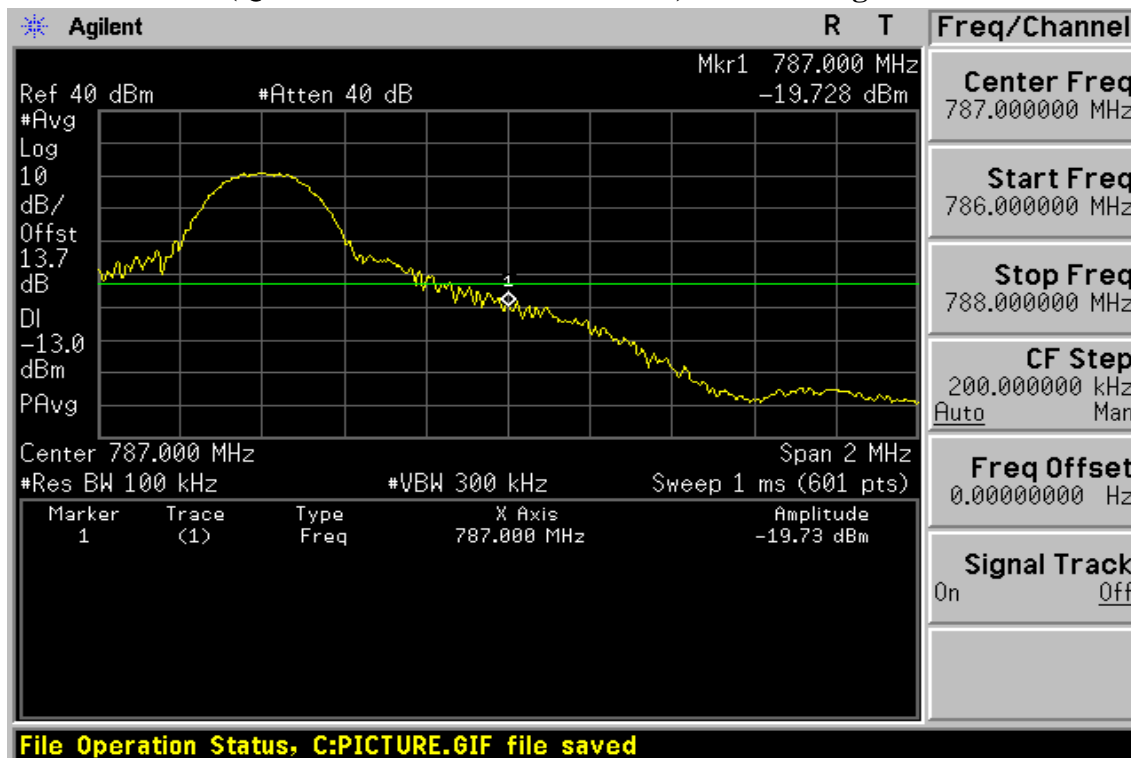
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**Figure 9-288: Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-289: Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 13**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)**

Test Mode 10MHz BW LTE-Band 13 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
777.000	-19.23	-13.00	6.23
787.000	-19.73	-13.00	6.73

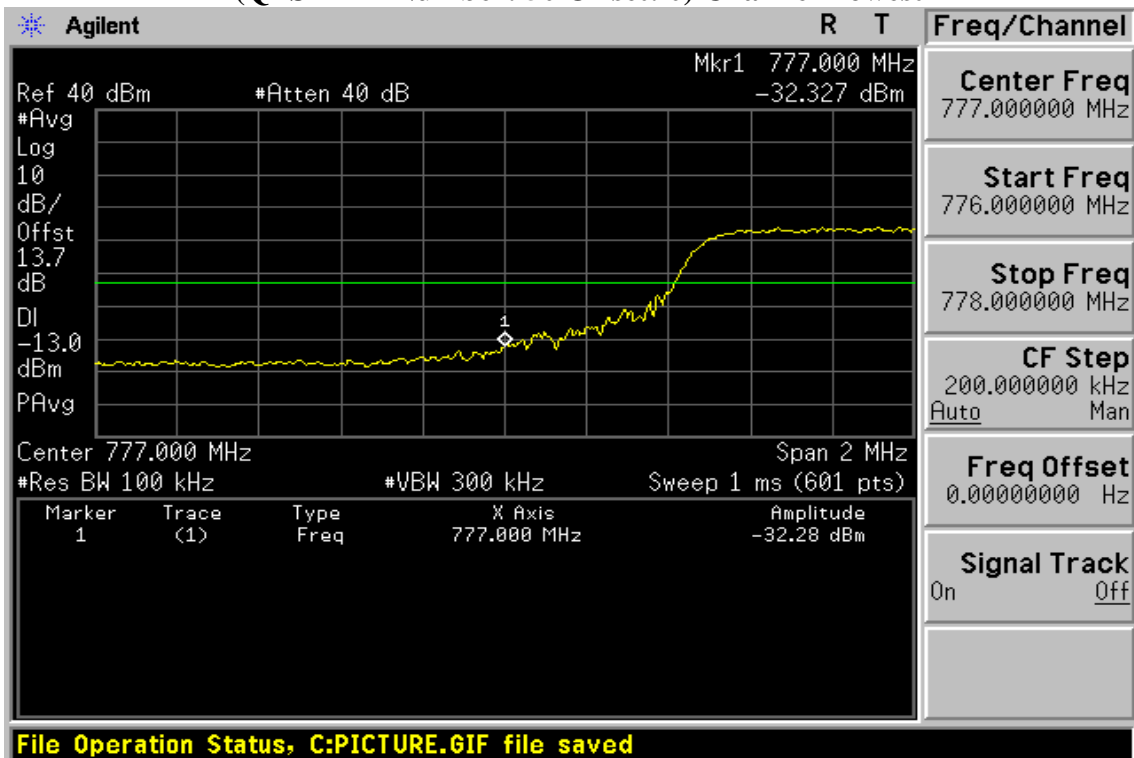
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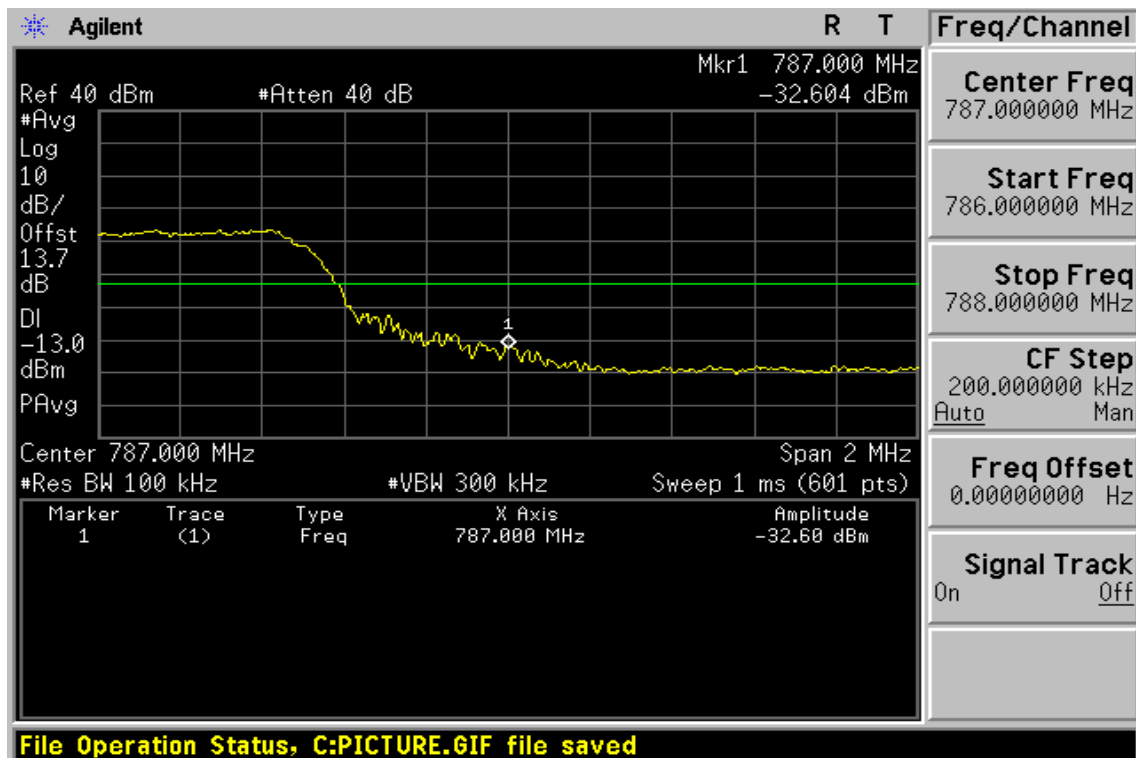
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**Figure 9-290: Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-291: Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 13**

(QPSK RB Number: 50 Offset: 0)

Test Mode 10MHz BW LTE-Band 13 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
777.000	-32.28	-13.00	19.28
787.000	-32.6	-13.00	19.60

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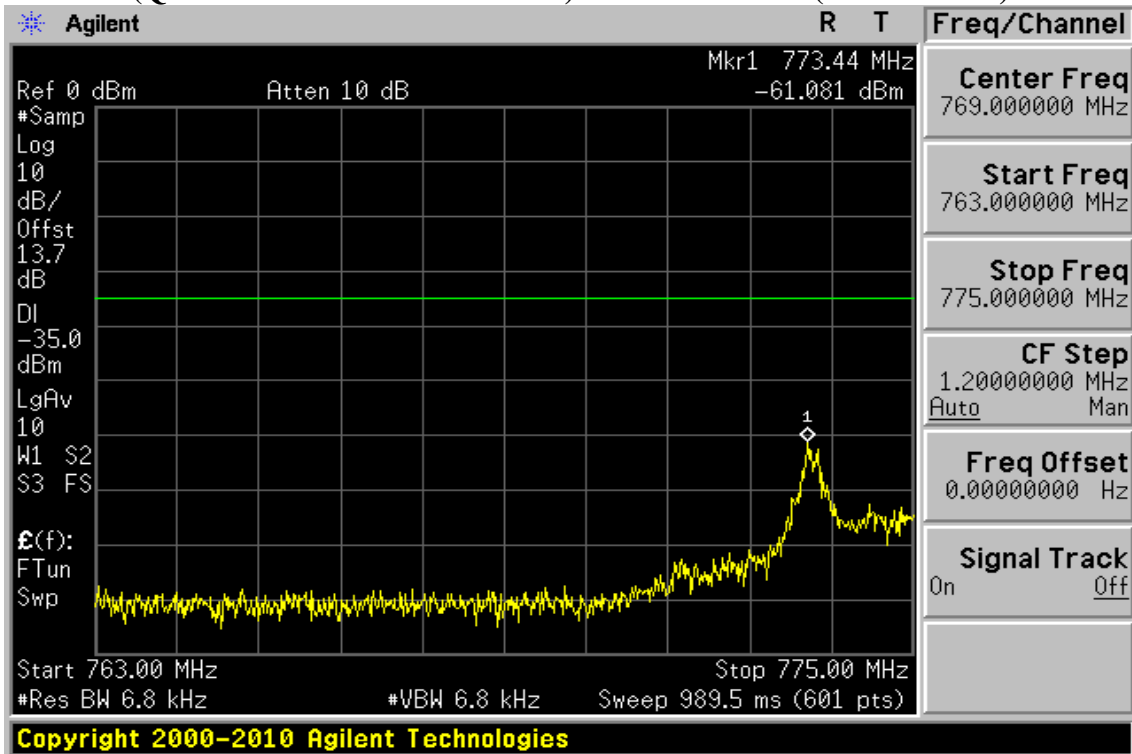
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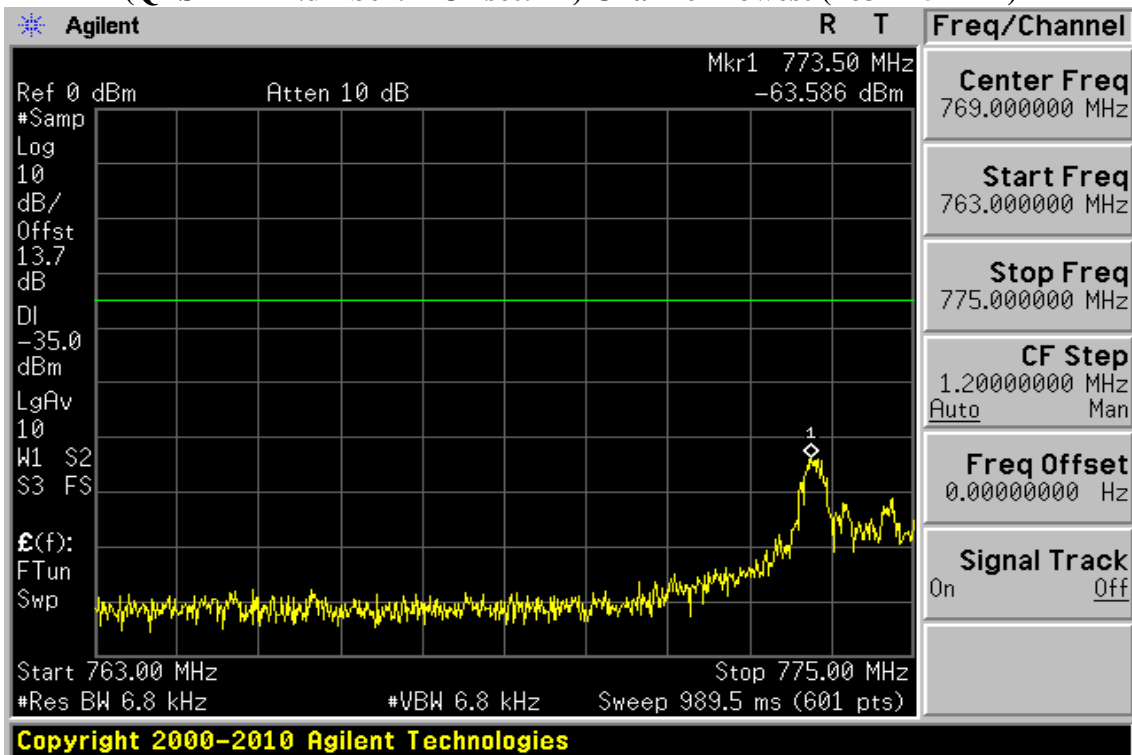
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**Figure 9-292: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (763-775MHz)**



**Figure 9-293: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Lowest (763-775MHz)**



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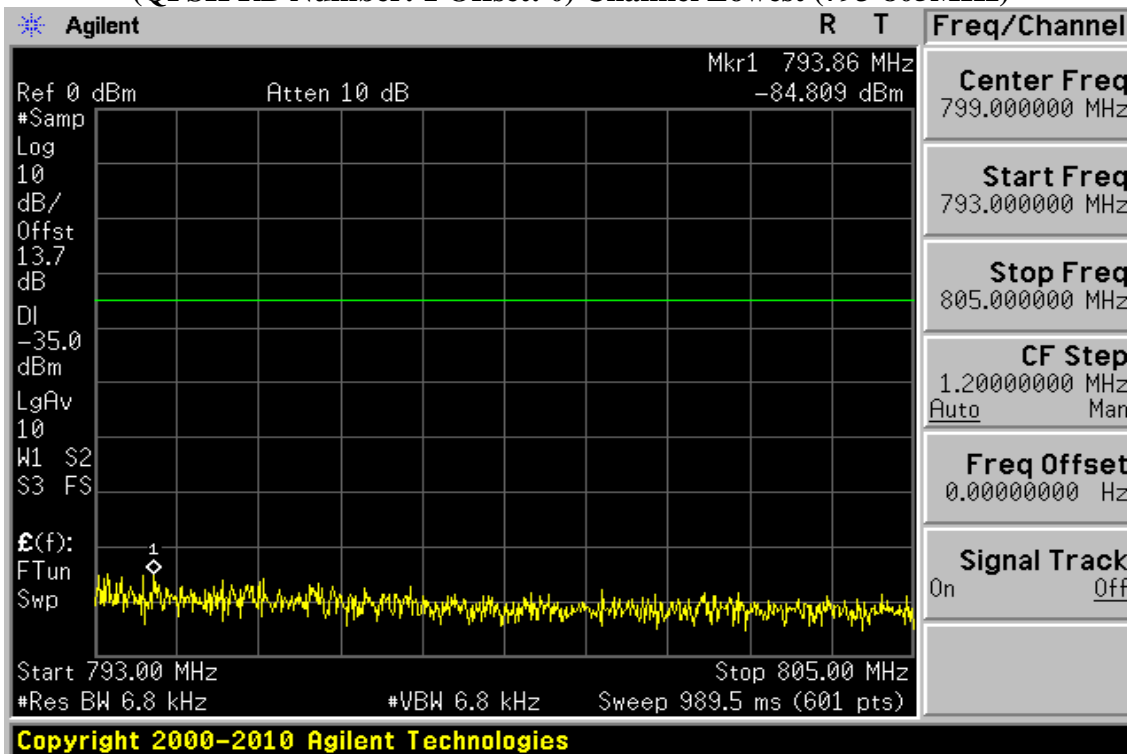
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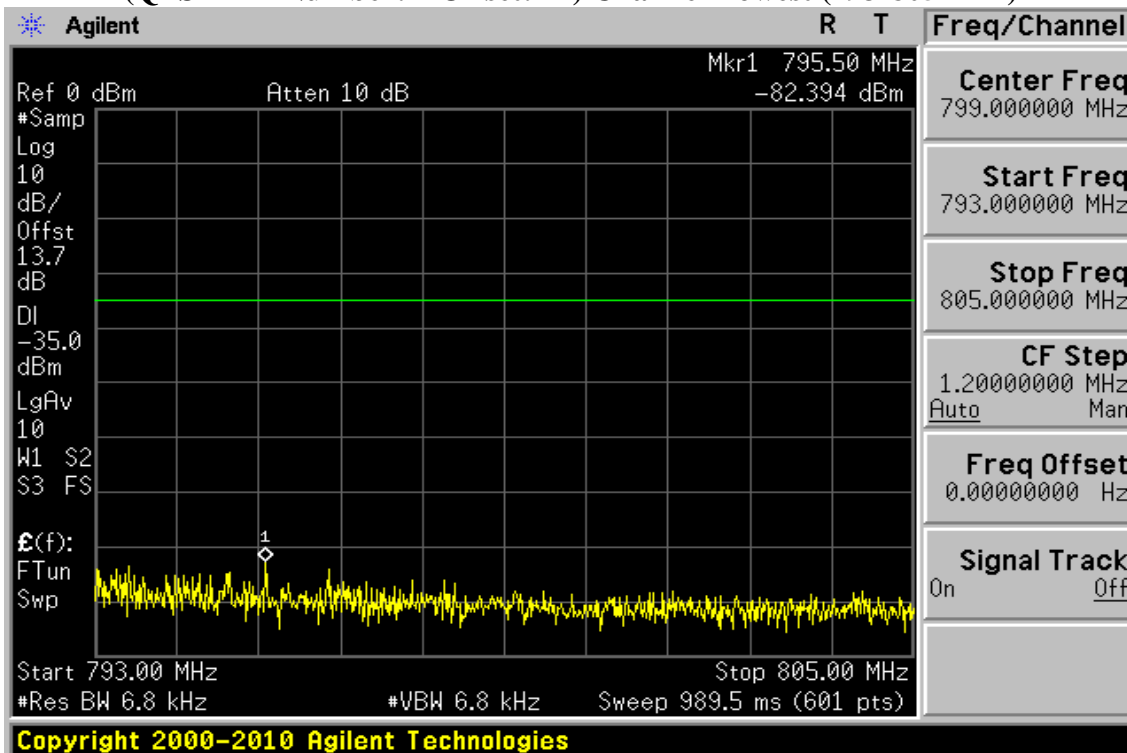
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**Figure 9-294: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (793-805MHz)**



**Figure 9-295: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Lowest (793-805MHz)**



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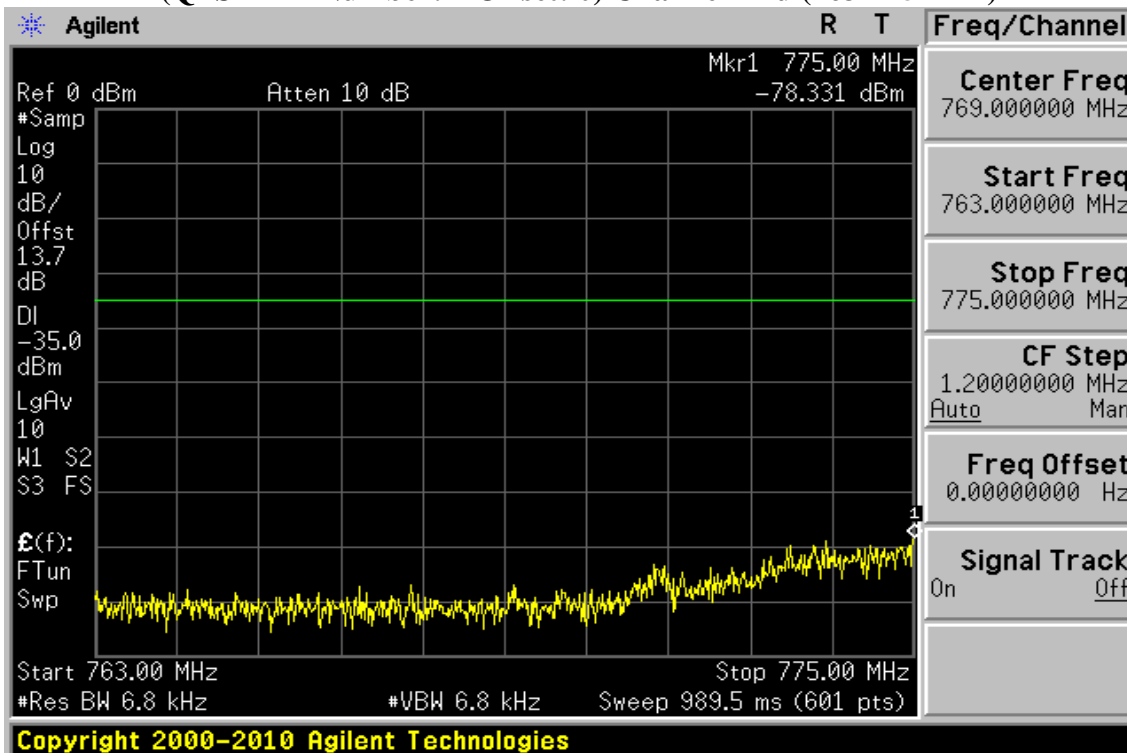
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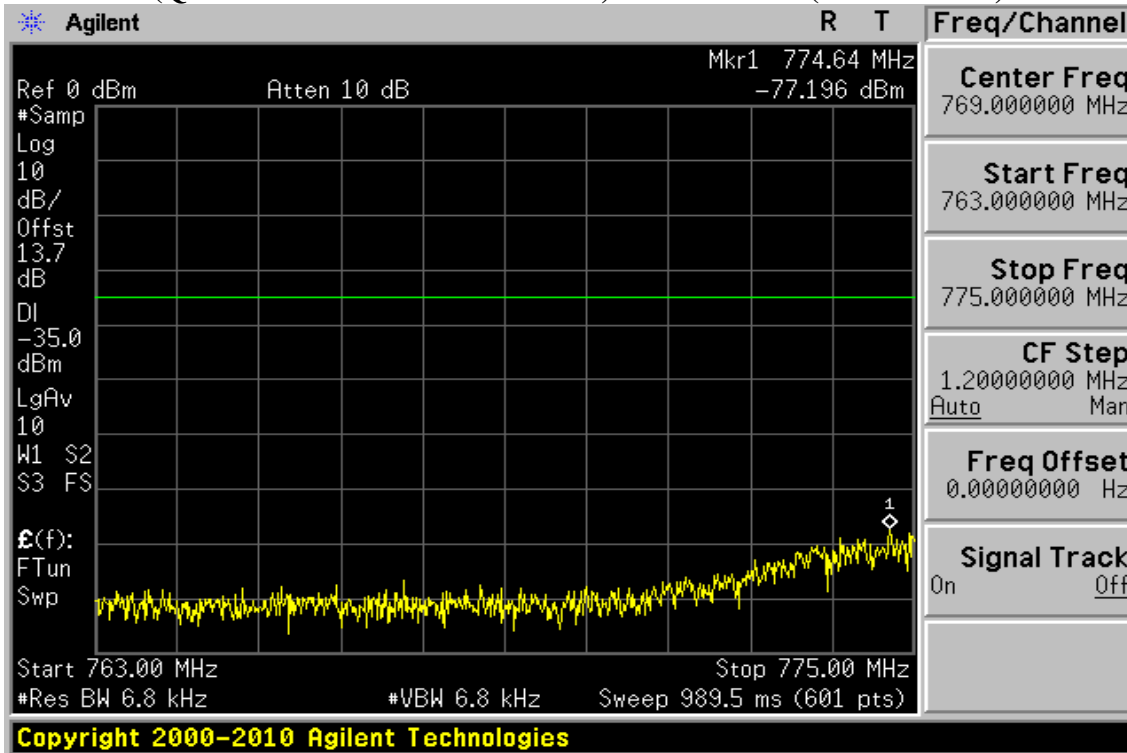
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**Figure 9-296: Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)**



**Figure 9-297: Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Mid (763-775MHz)**



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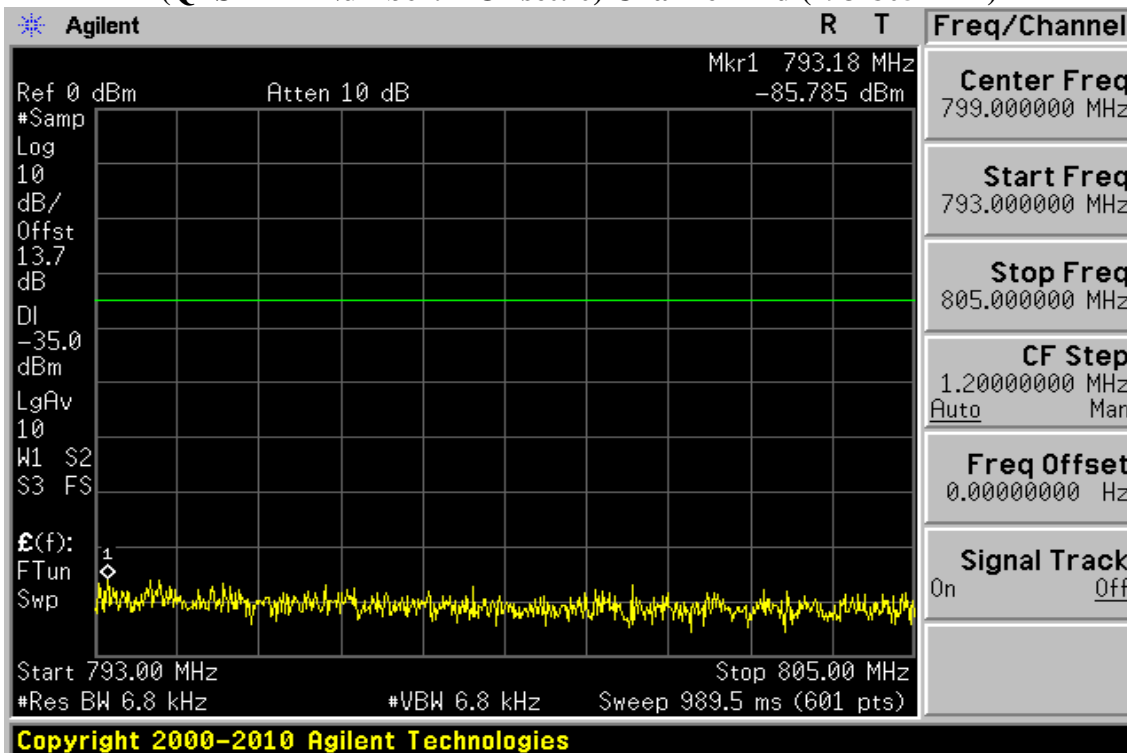
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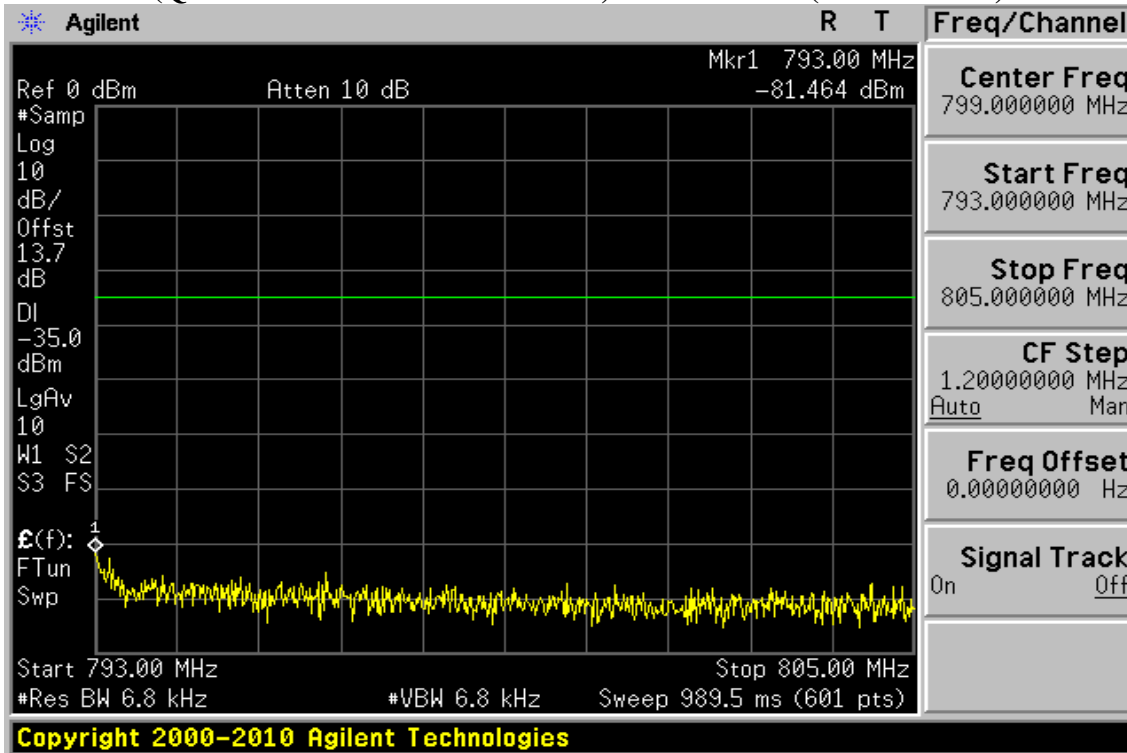
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**Figure 9-298: Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)**



**Figure 9-299: Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Mid (793-805MHz)**



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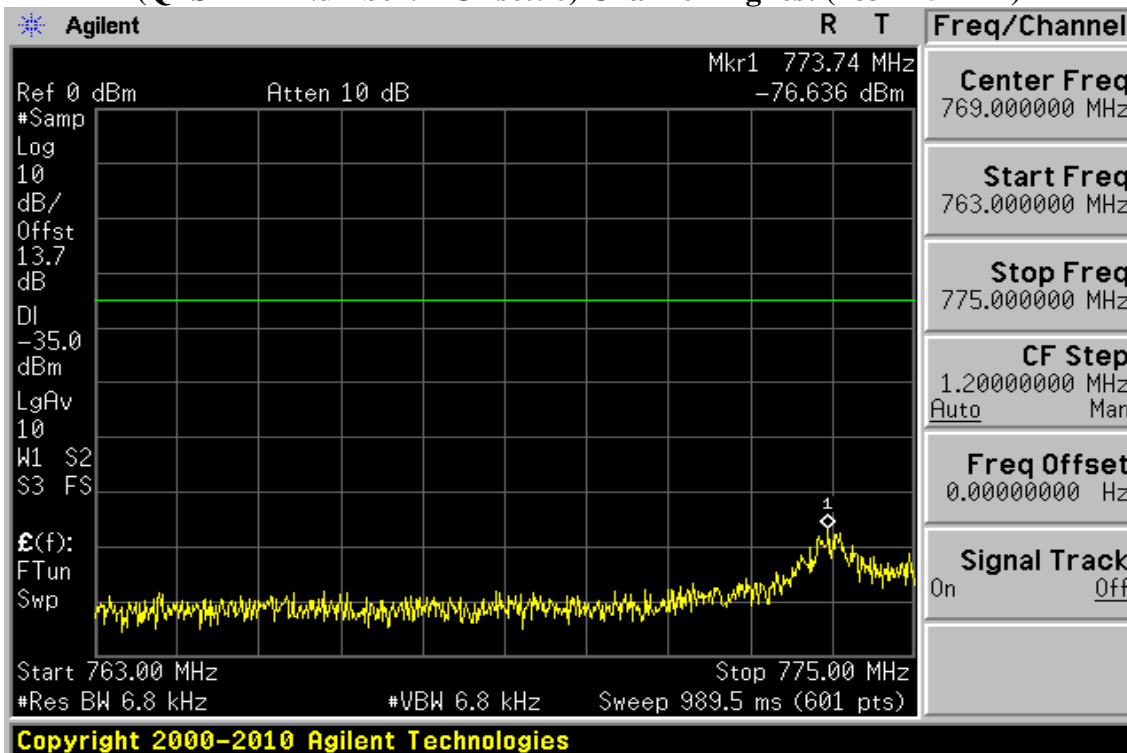
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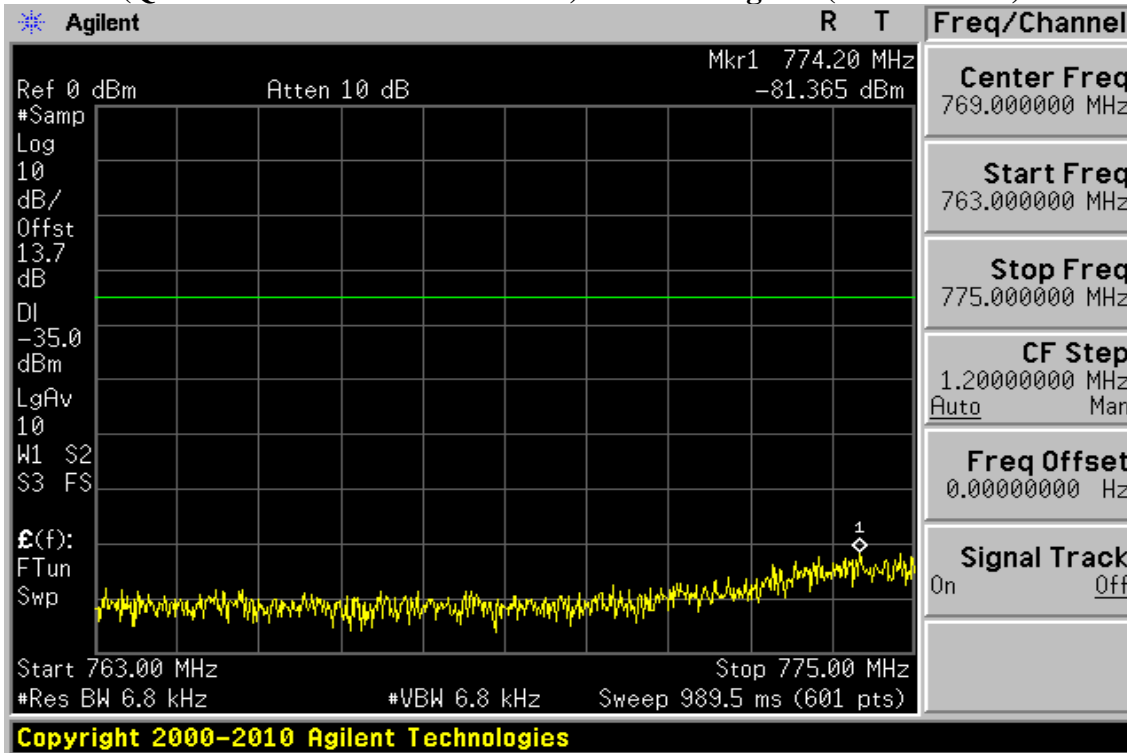
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**Figure 9-300: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (763-775MHz)**



**Figure 9-301: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Highest (763-775MHz)**



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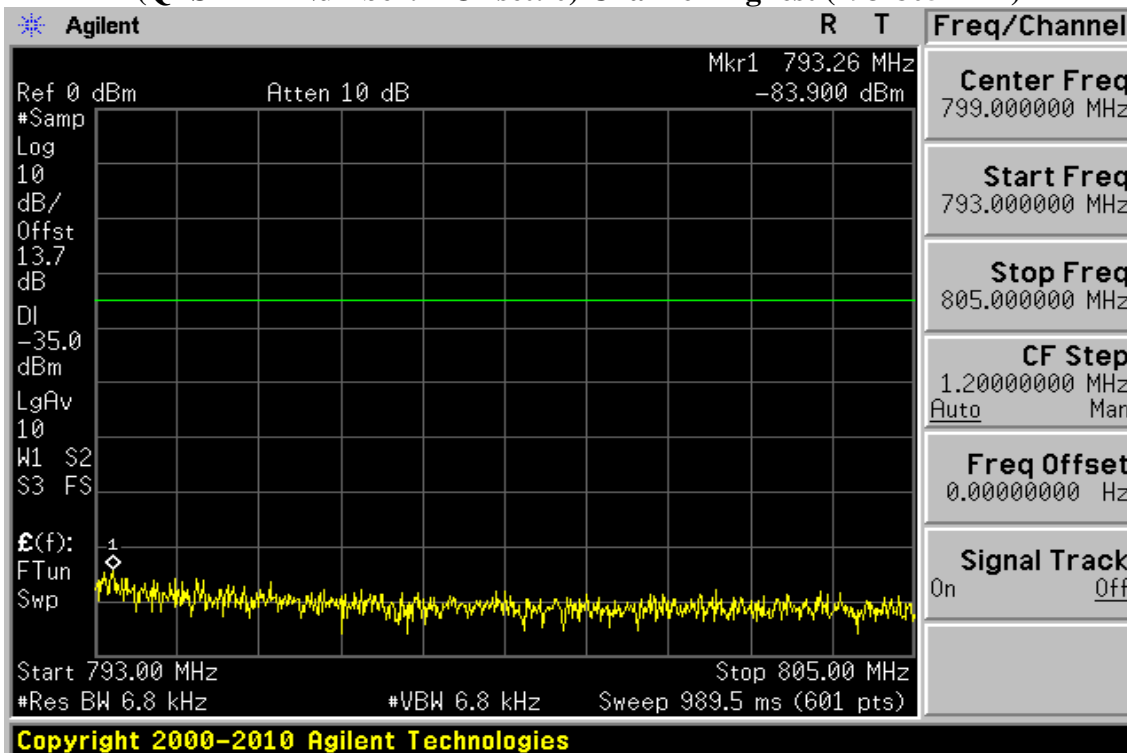
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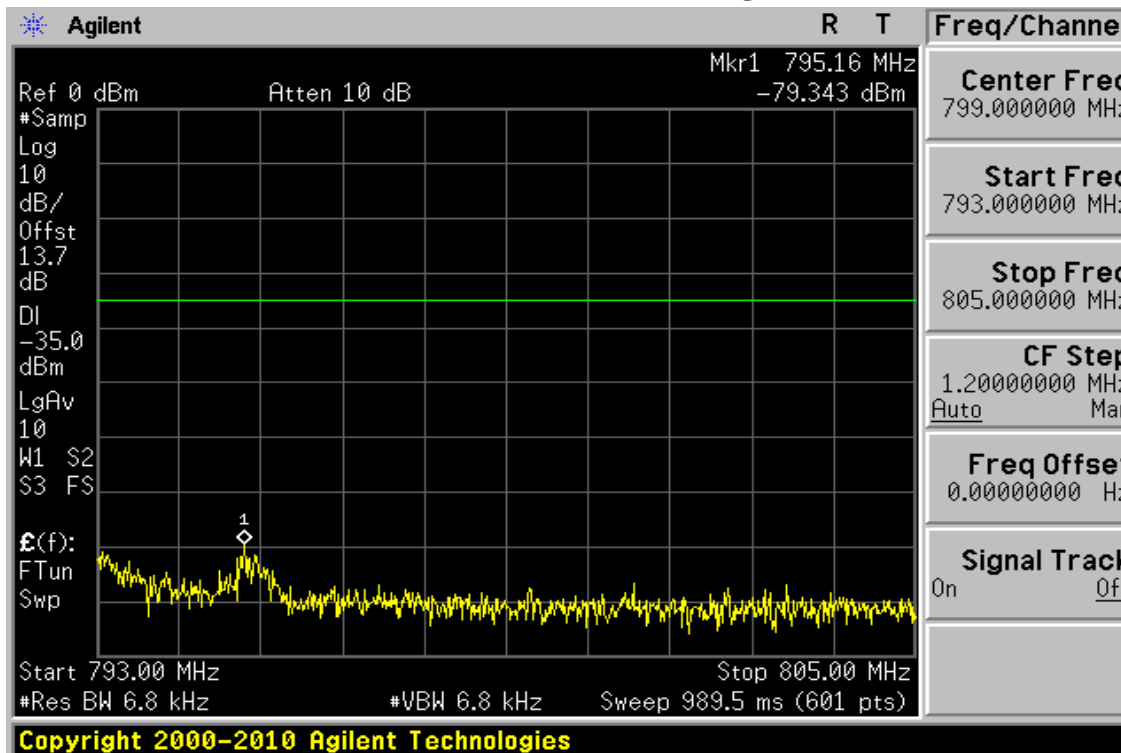
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**Figure 9-302: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (793-805MHz)**



**Figure 9-303: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Highest (793-805MHz)**



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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 13**

Fundamental Frequency :779.5 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
773.440	-61.081	-35.00	26.08
773.500	-63.586	-35.00	28.59
793.860	-84.809	-35.00	49.81
795.500	-82.394	-35.00	47.39

Fundamental Frequency :782.0 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
775.000	-78.331	-35.00	43.33
774.640	-77.196	-35.00	42.20
793.180	-85.785	-35.00	50.79
793.000	-81.464	-35.00	46.46

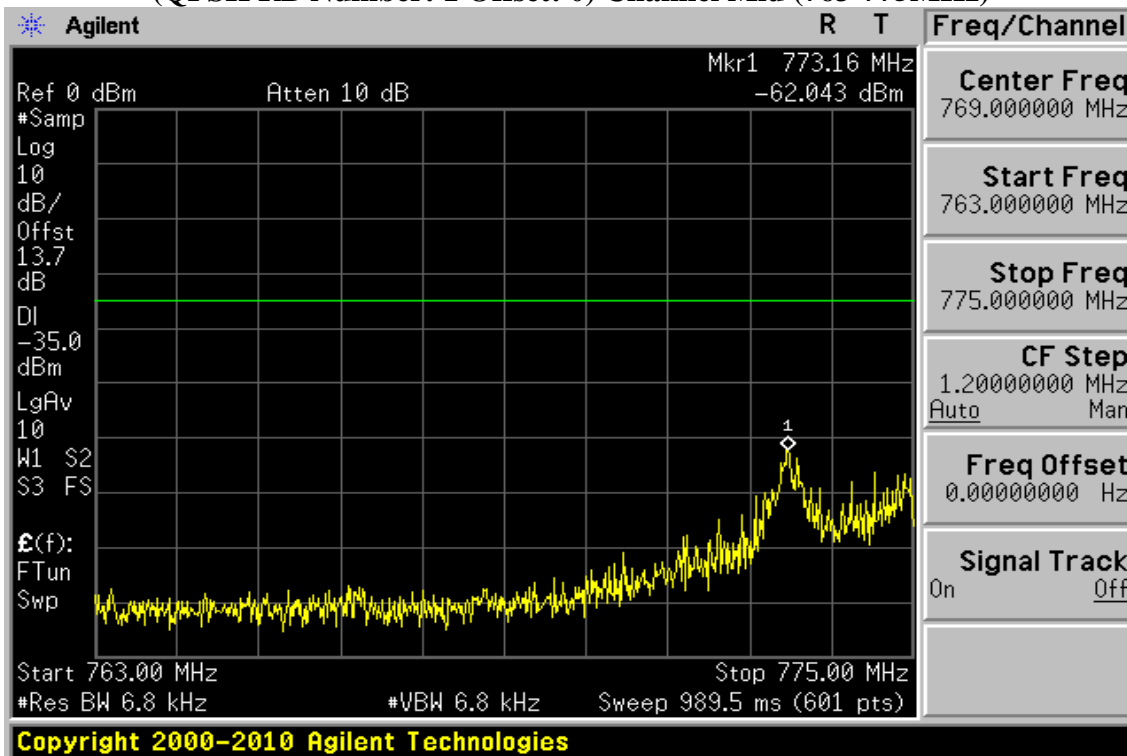
Fundamental Frequency :784.5 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
773.740	-76.636	-35.00	41.64
774.200	-81.365	-35.00	46.37
793.260	-83.9	-35.00	48.90
795.160	-79.343	-35.00	44.34

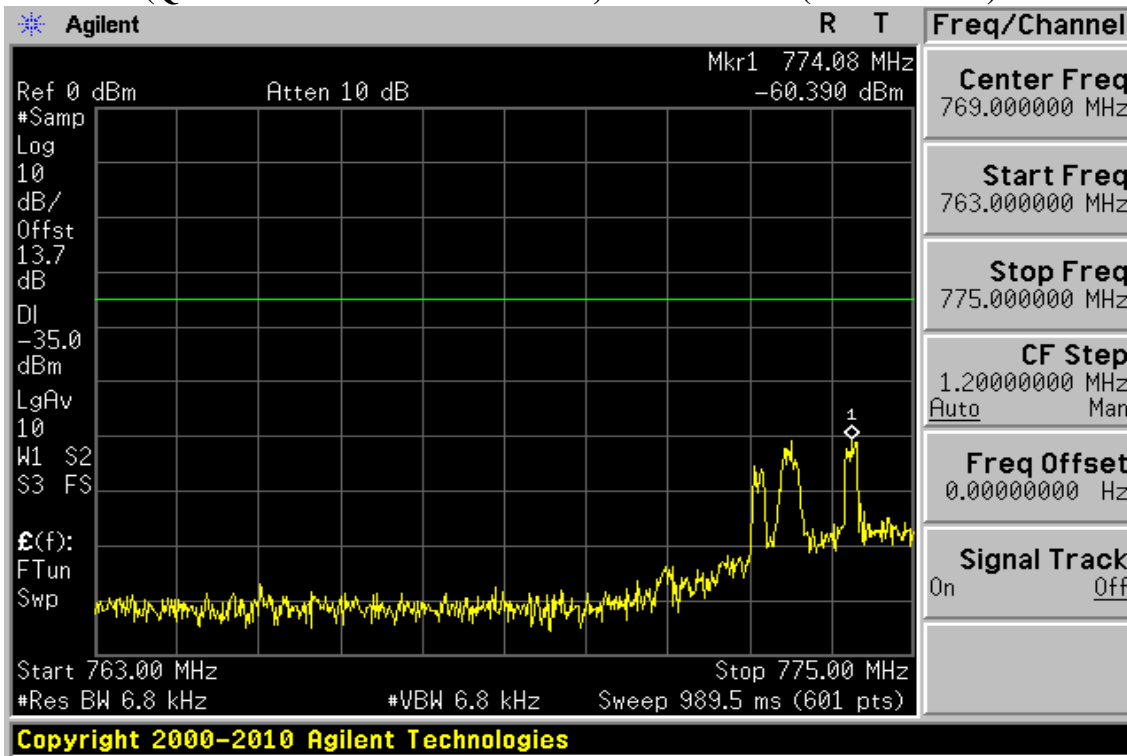
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**Figure 9-304: Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)**



**Figure 9-305: Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 49) Channel Mid (763-775MHz)**



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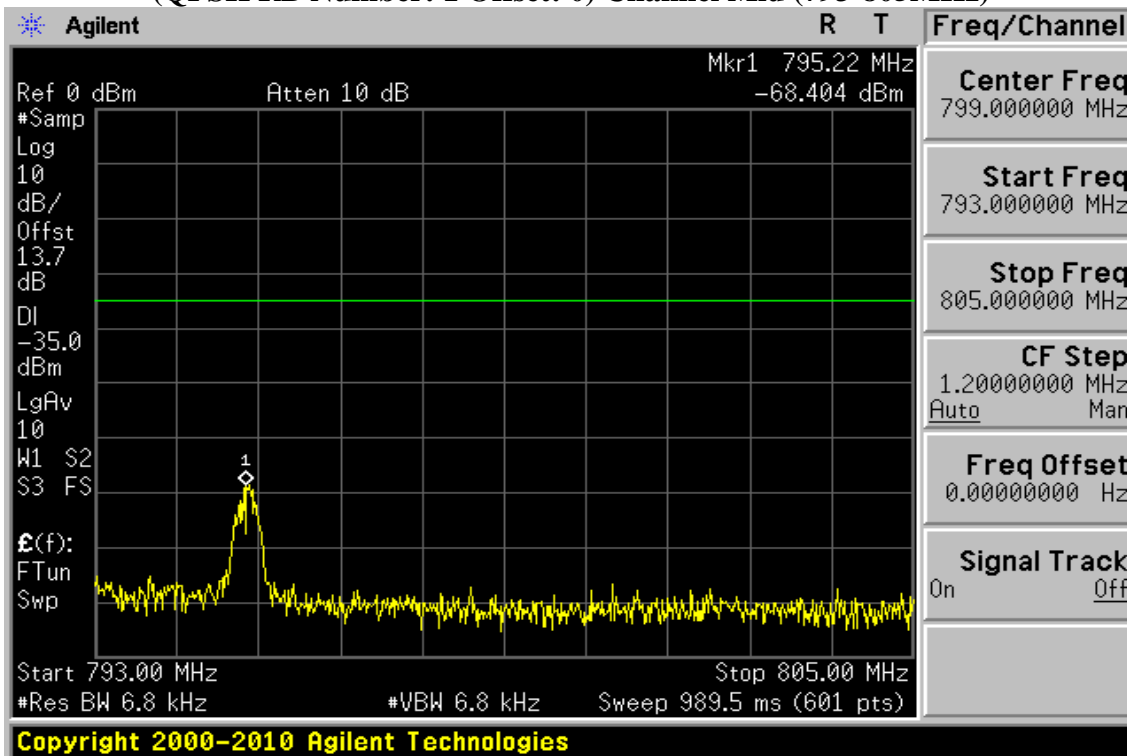
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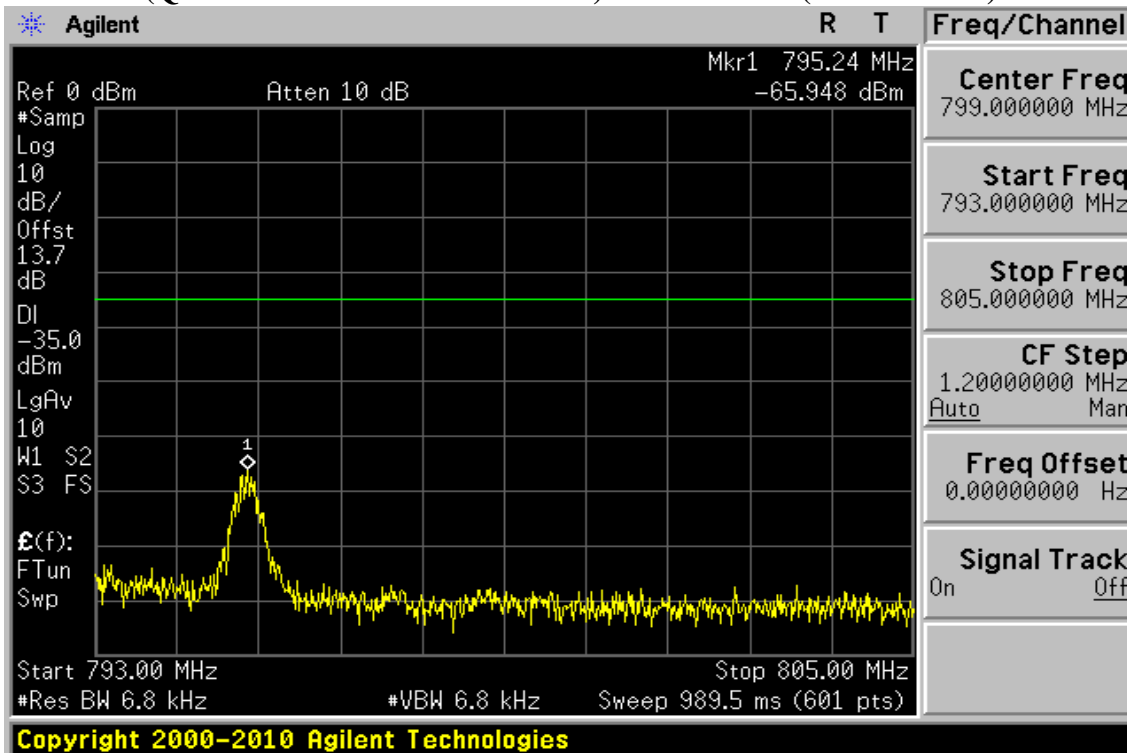
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**Figure 9-306: Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)**



**Figure 9-307: Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 49) Channel Mid (793-805MHz)**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 13**

Fundamental Frequency :782.0 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
773.160	-62.043	-35.00	27.04
774.080	-60.39	-35.00	25.39
795.220	-68.404	-35.00	33.40
795.240	-65.948	-35.00	30.95

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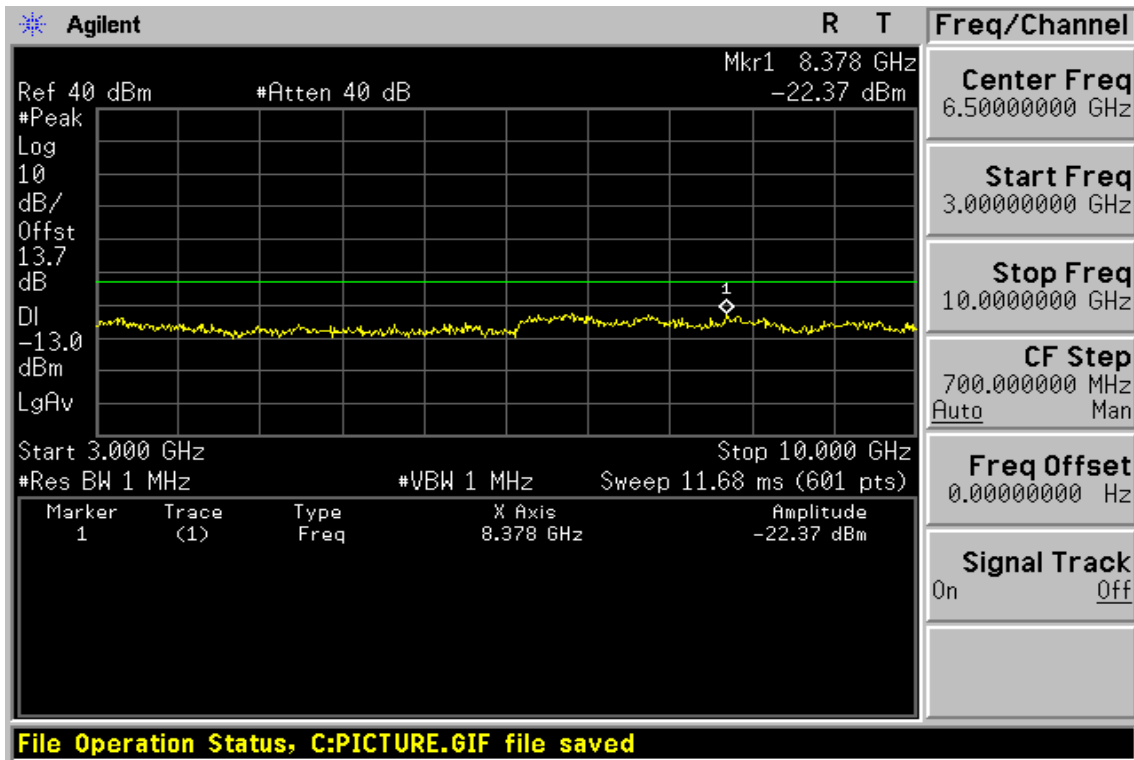
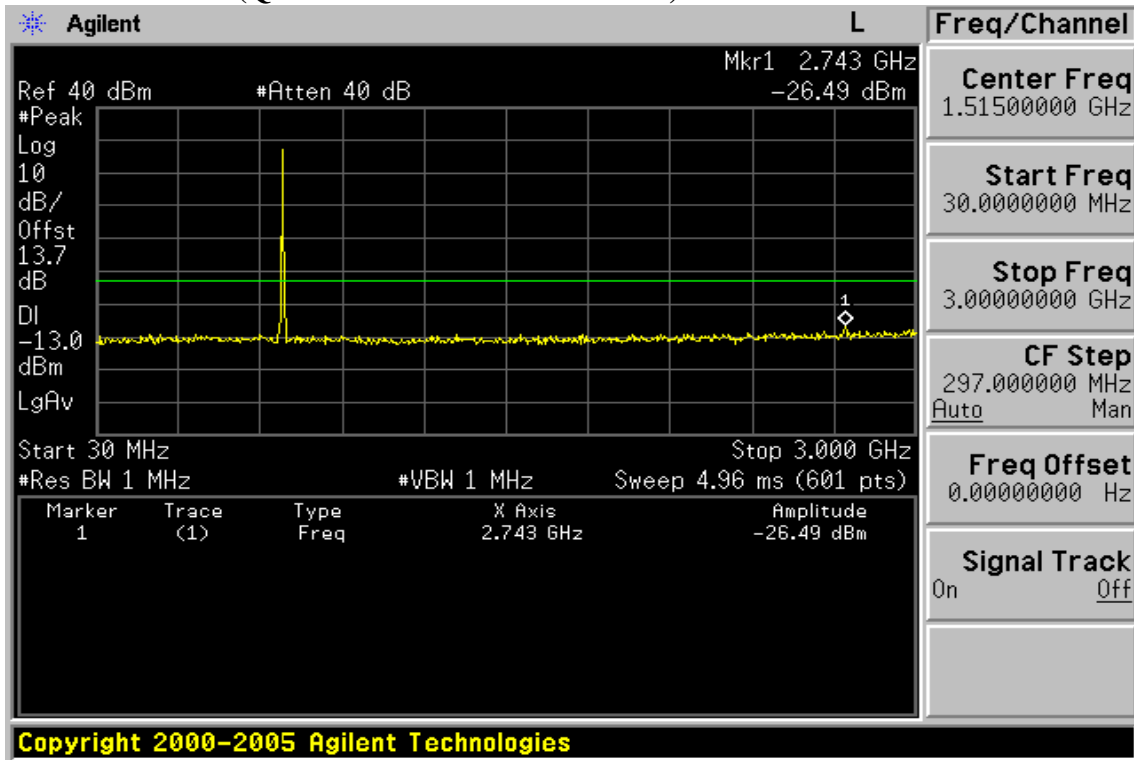
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**Figure9-308: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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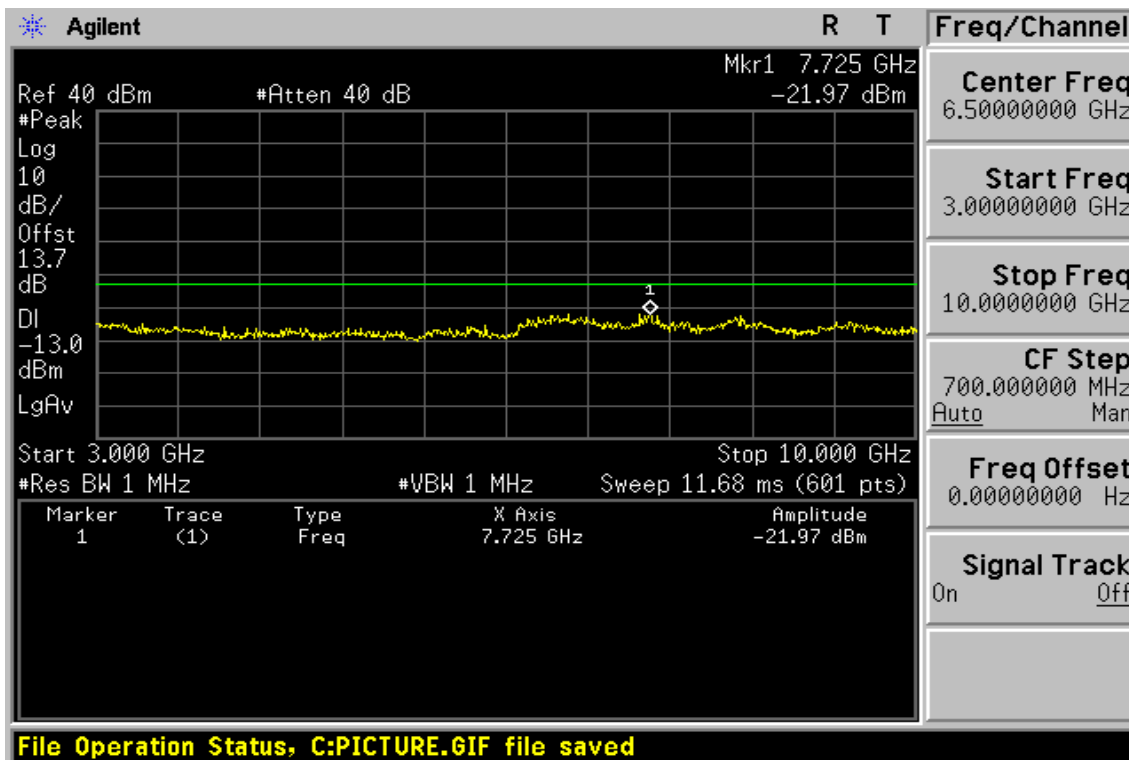
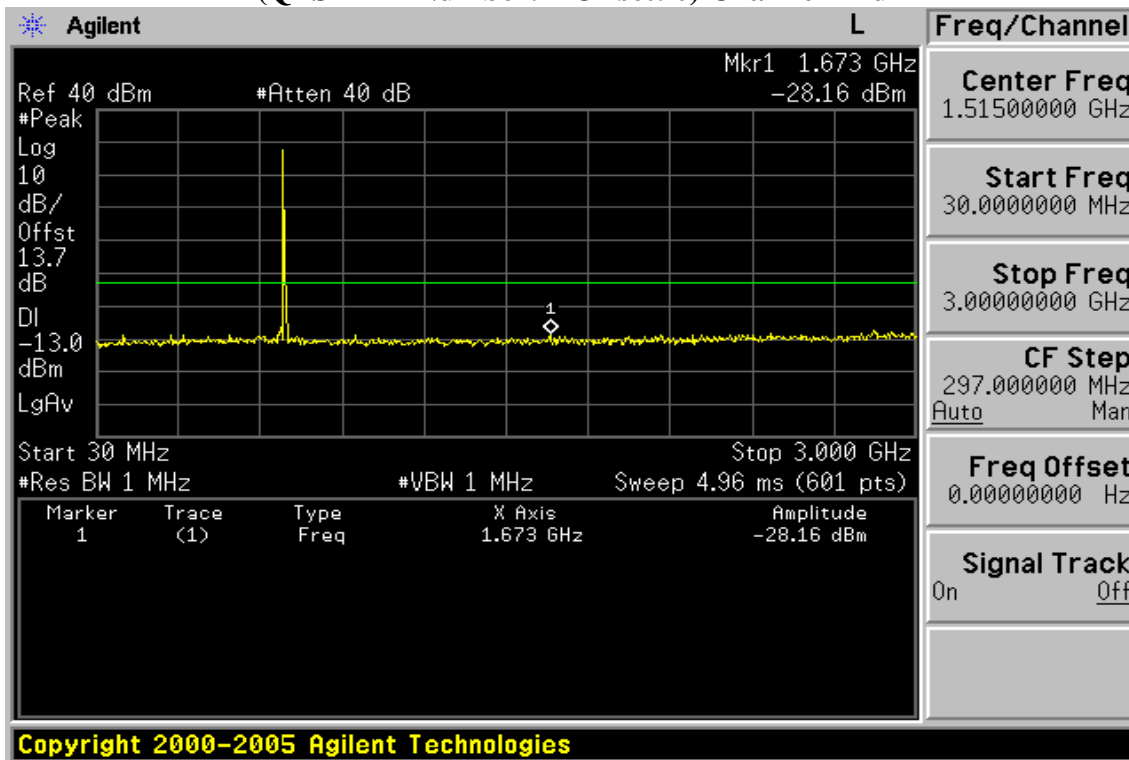
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**Figure 9-309: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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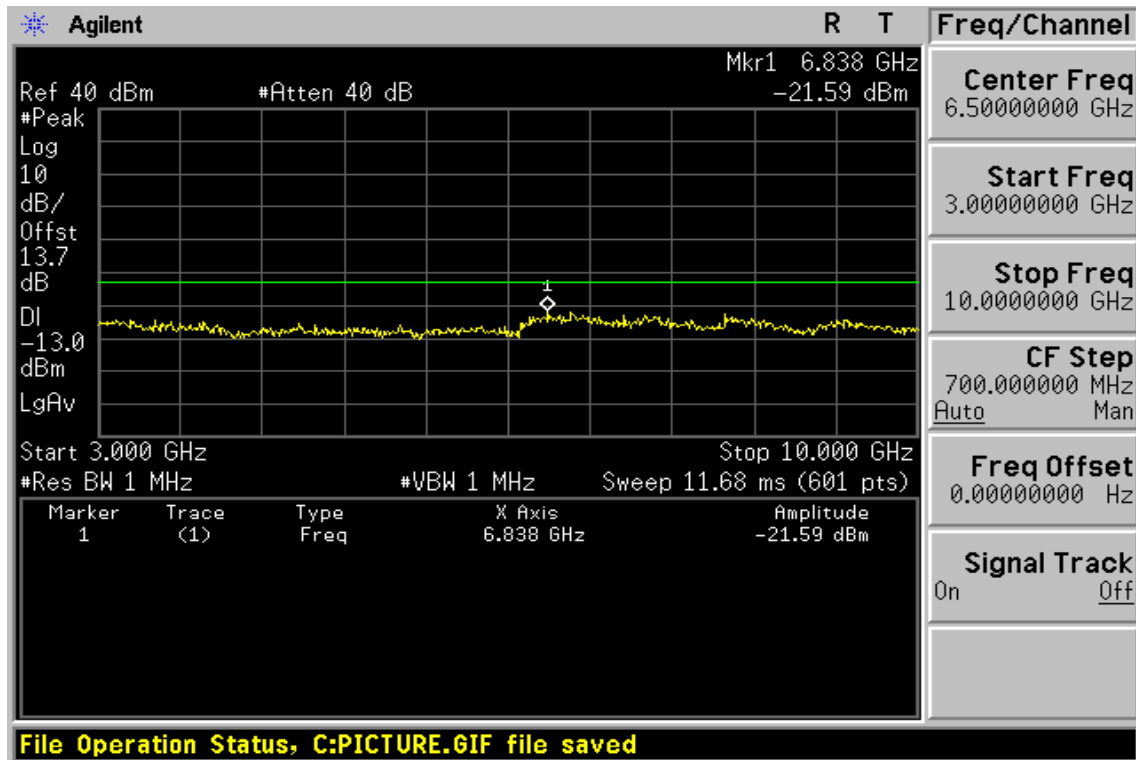
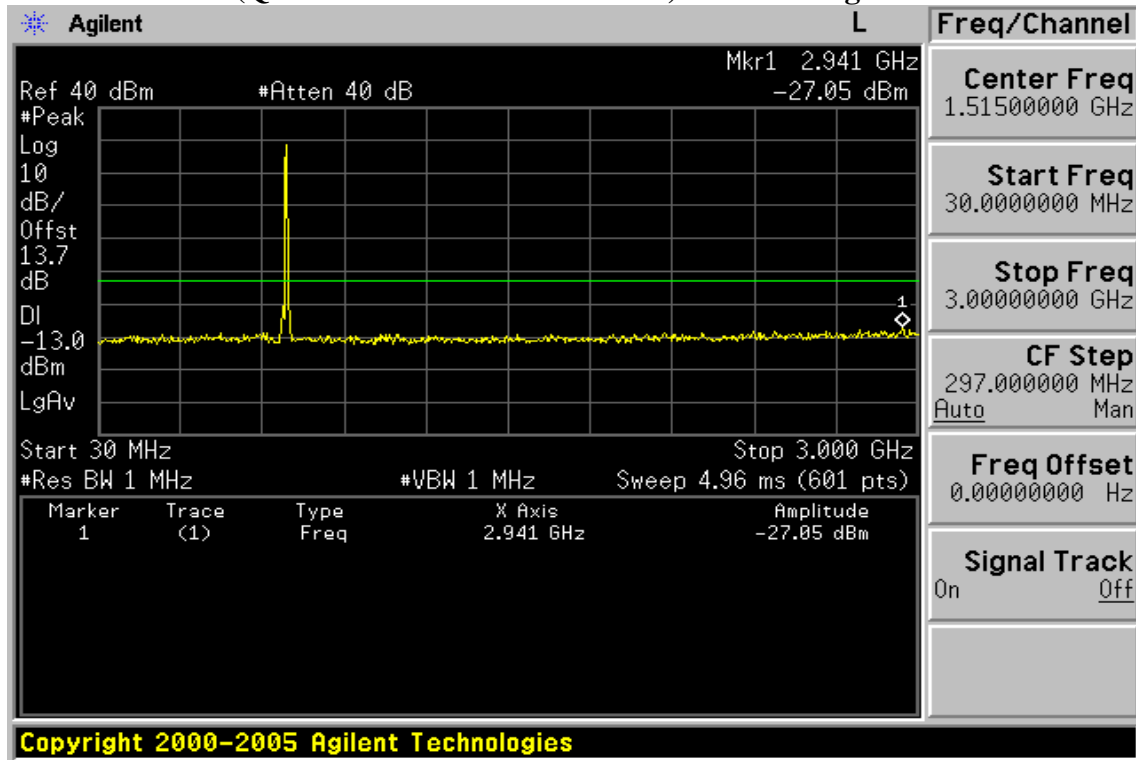
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**Figure 9-310: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 17**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :706.5 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1413.00	H	---	-13.00	---
2119.50	H	---	-13.00	---
2826.00	H	---	-13.00	---
3532.50	H	---	-13.00	---
4239.00	H	---	-13.00	---
4945.50	H	---	-13.00	---
5652.00	H	---	-13.00	---
6358.50	H	---	-13.00	---
7065.00	H	---	-13.00	---
8378.00	S	-22.37	-13.00	9.37

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :710 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1420.00	H	---	-13.00	---
2130.00	H	---	-13.00	---
2840.00	H	---	-13.00	---
3550.00	H	---	-13.00	---
4260.00	H	---	-13.00	---
4970.00	H	---	-13.00	---
5680.00	H	---	-13.00	---
6390.00	H	---	-13.00	---
7100.00	H	---	-13.00	---
7725.00	S	-21.97	-13.00	8.97

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :713.5MHz Engineer :Nick  
 Operation Mode :TX High

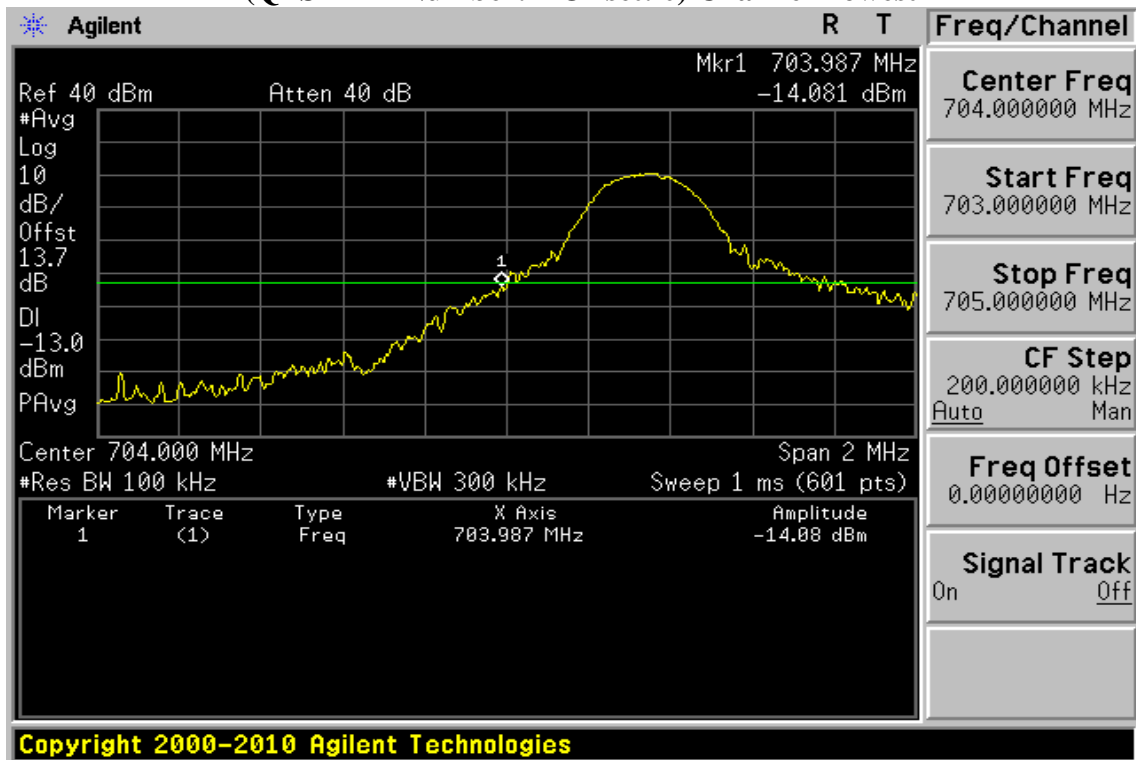
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1427.00	H	---	-13.00	---
2140.50	H	---	-13.00	---
2854.00	H	---	-13.00	---
3567.50	H	---	-13.00	---
4281.00	H	---	-13.00	---
4994.50	H	---	-13.00	---
5708.00	H	---	-13.00	---
6421.50	H	---	-13.00	---
6838.00	S	-21.59	-13.00	8.59
7135.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

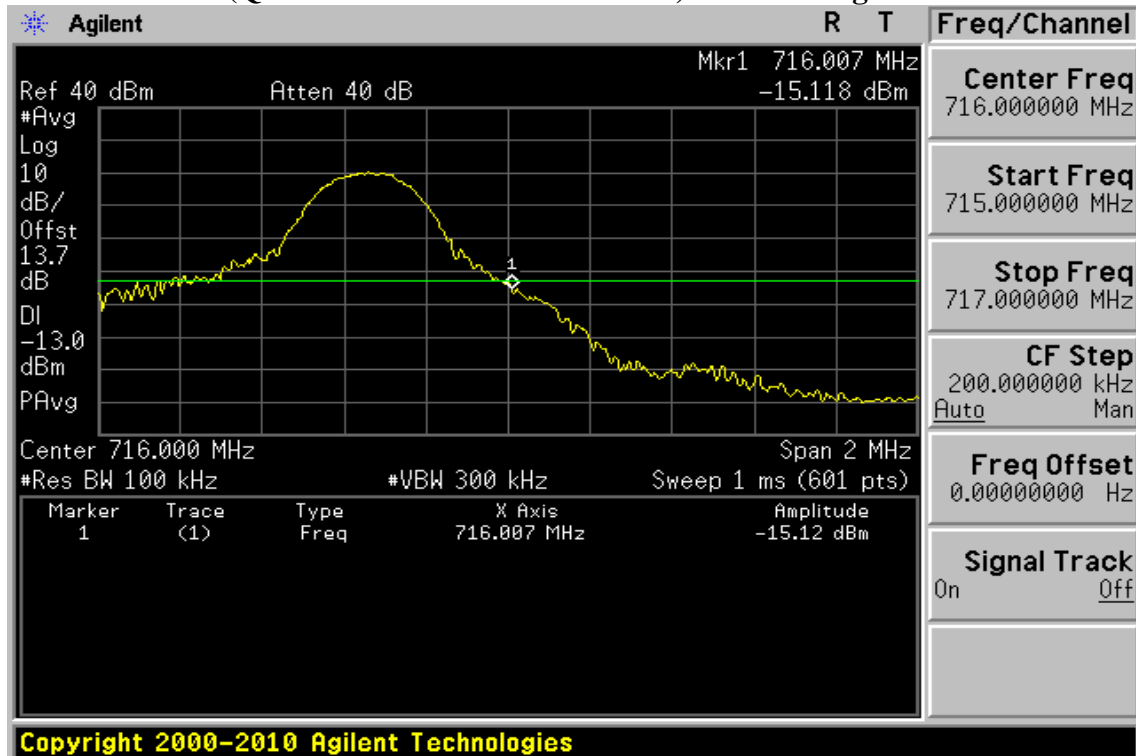
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**Figure 9-311: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-312: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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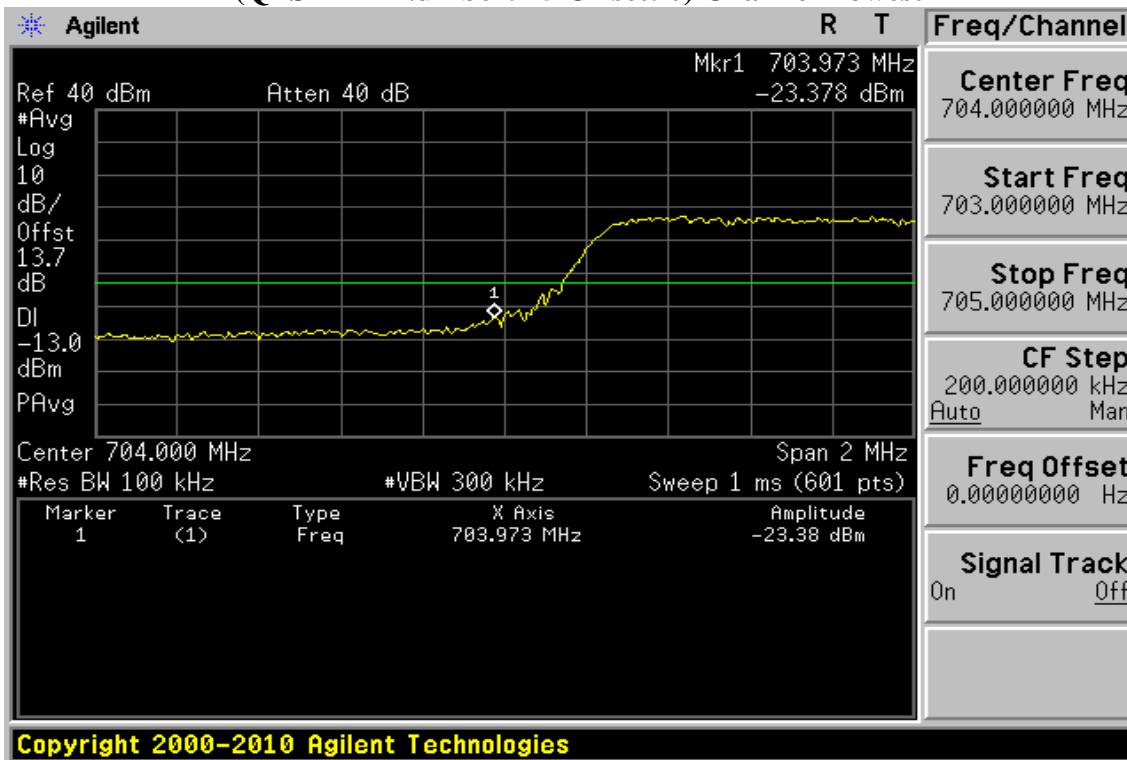
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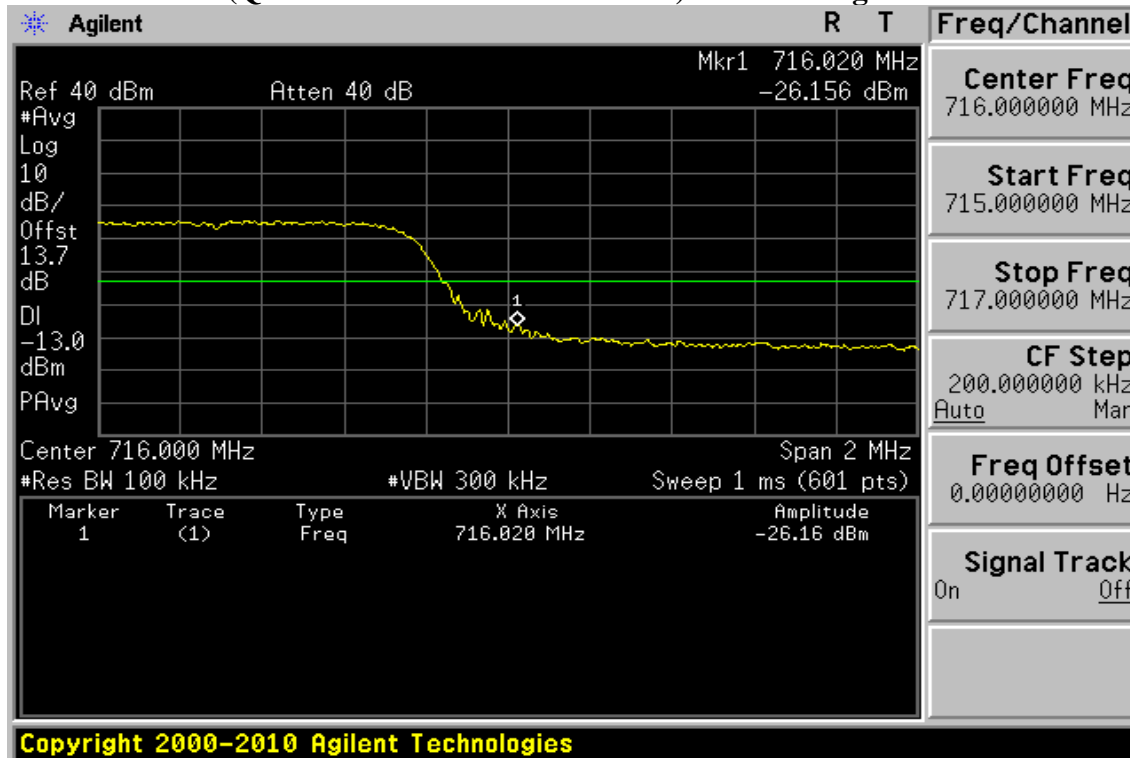
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**Figure 9-313: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-298: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 17**

**(QPSK RB Number: 25 Offset: 0)**

Test Mode                      5MHz BW LTE-Band 17      Engineer                                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
703.973	-23.38	-13.00	10.38
716.020	-26.16	-13.00	13.16

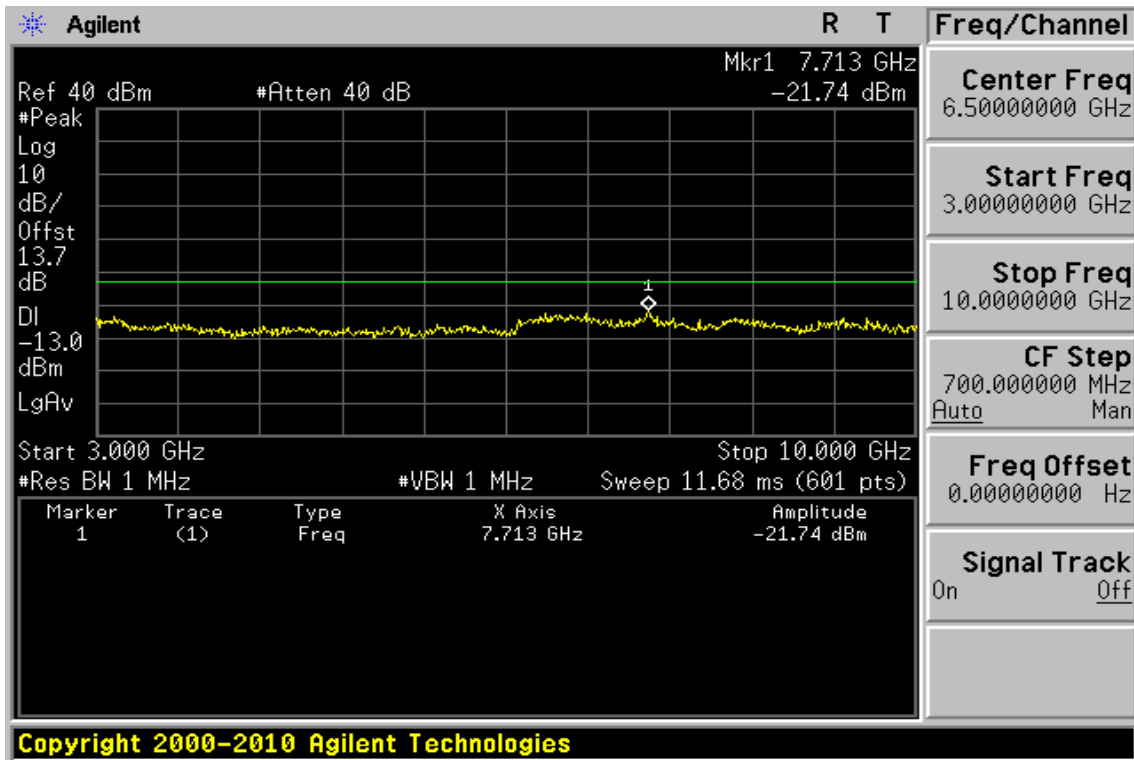
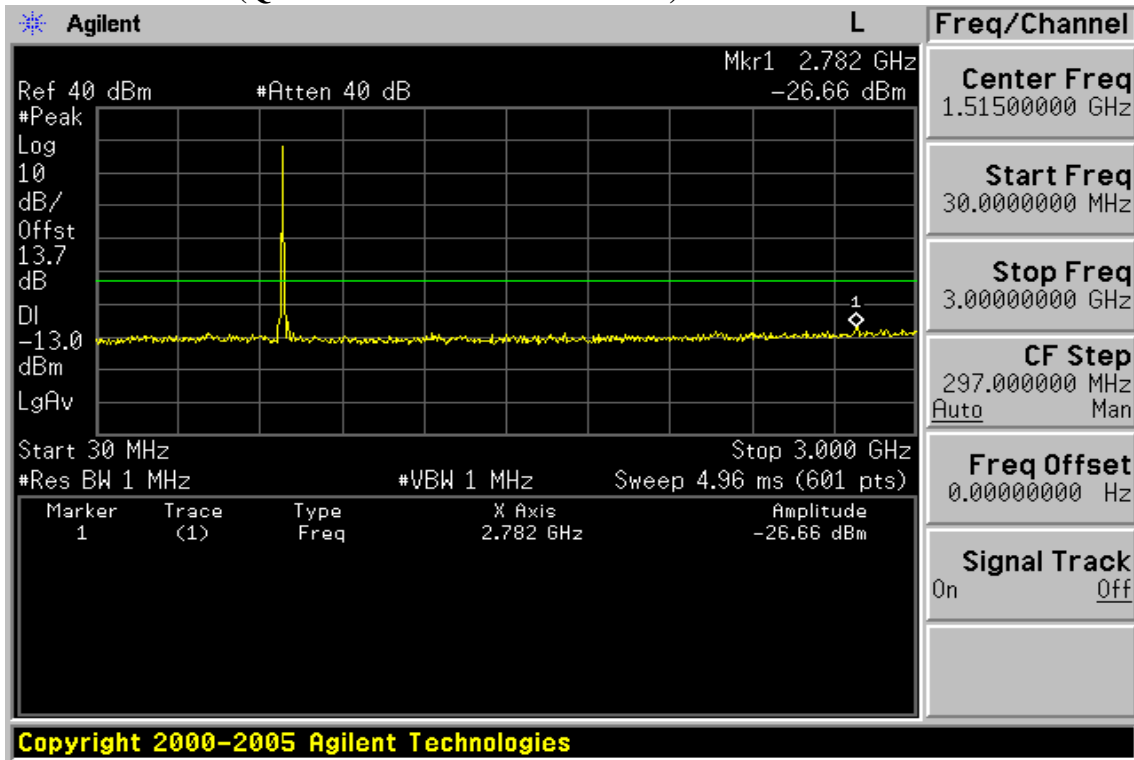
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**Figure 9-314: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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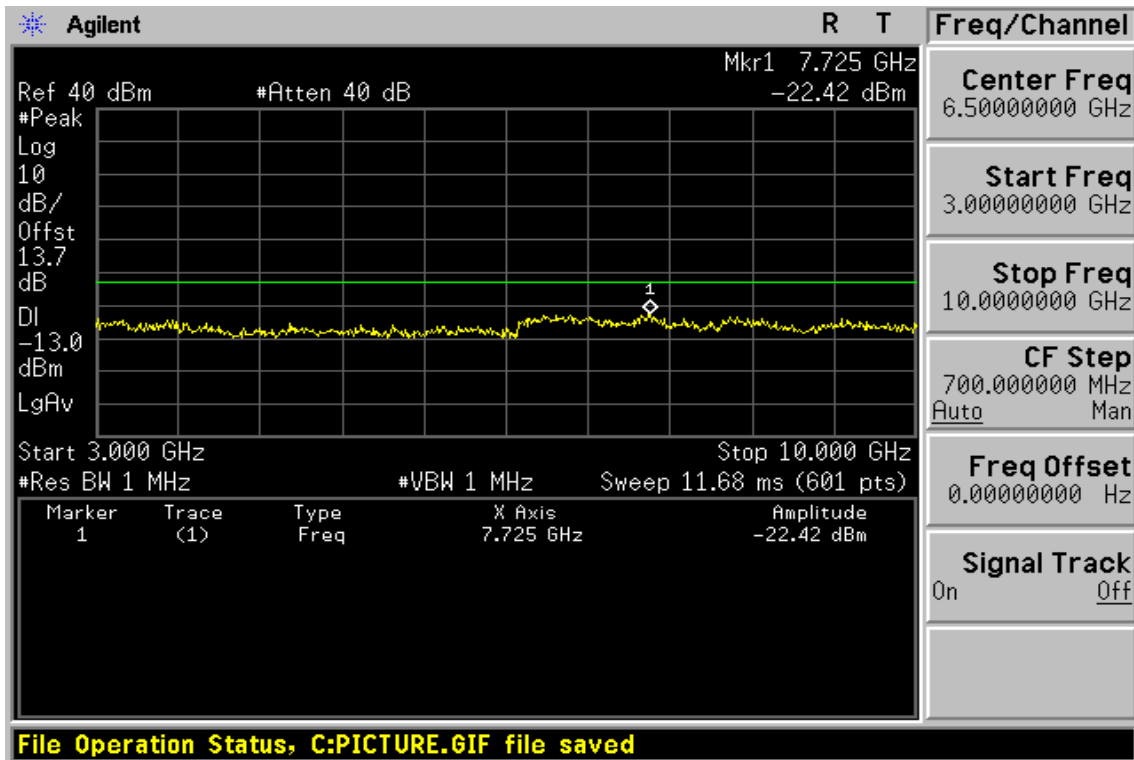
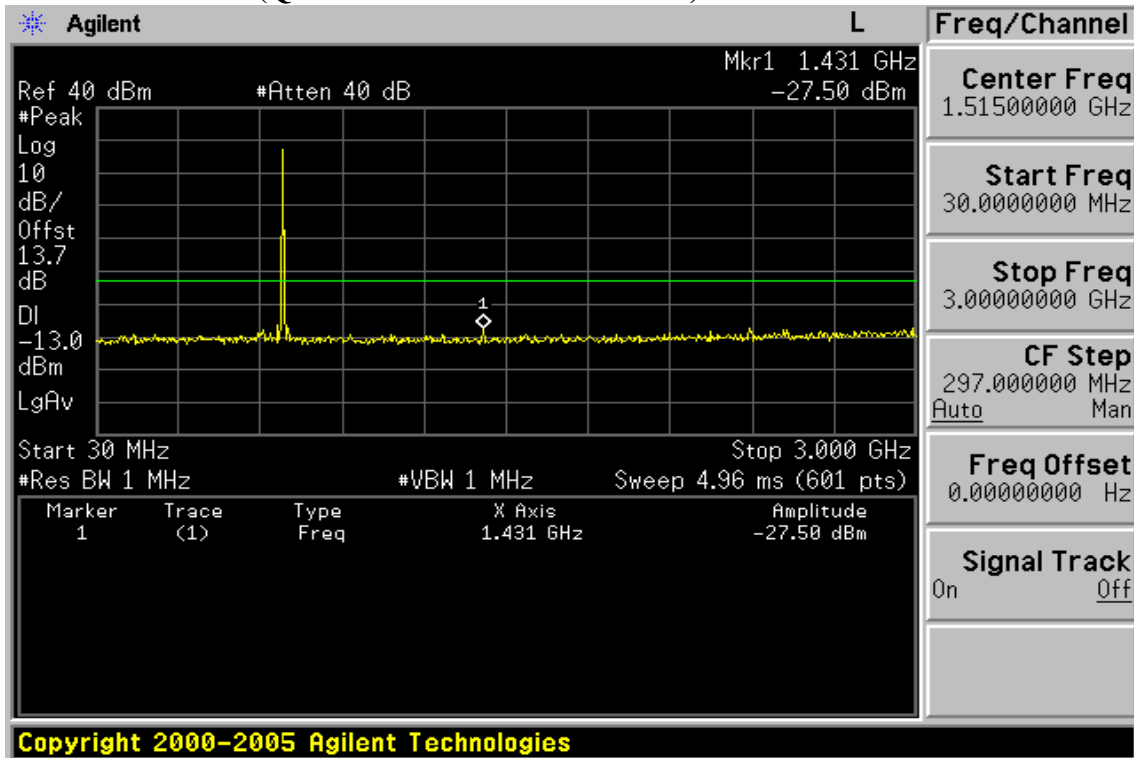
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**Figure 9-315: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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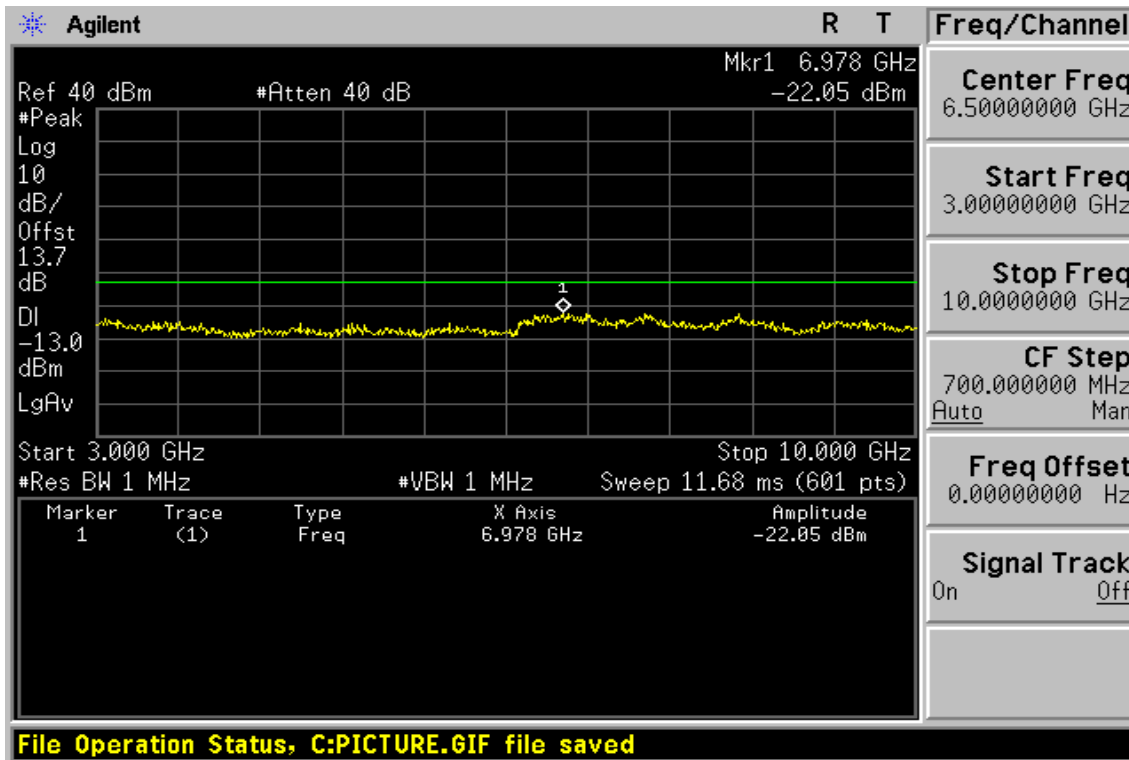
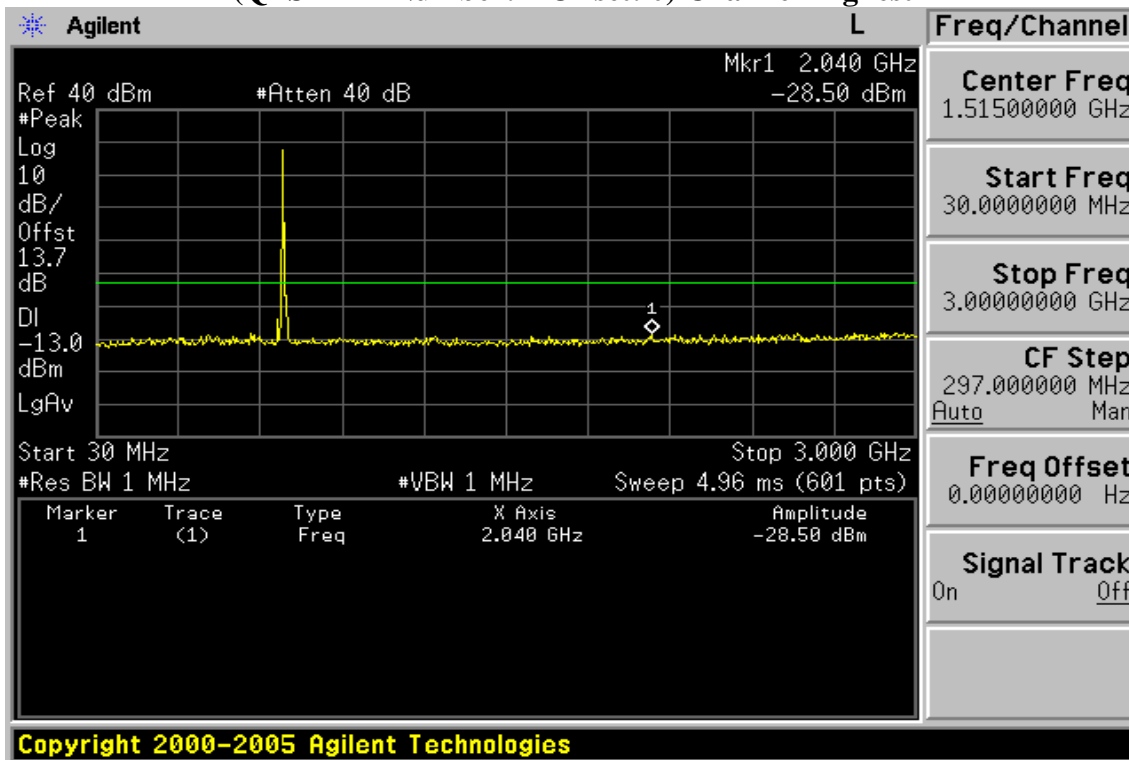
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**Figure 9-316: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 17**

**(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :709 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1418.00	H	---	-13.00	---
2127.00	H	---	-13.00	---
2836.00	H	---	-13.00	---
3545.00	H	---	-13.00	---
4254.00	H	---	-13.00	---
4963.00	H	---	-13.00	---
5672.00	H	---	-13.00	---
6381.00	H	---	-13.00	---
7090.00	H	---	-13.00	---
7713.00	S	-21.74	-13.00	8.74

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Fundamental Frequency :710 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1420.00	H	---	-13.00	---
2130.00	H	---	-13.00	---
2840.00	H	---	-13.00	---
3550.00	H	---	-13.00	---
4260.00	H	---	-13.00	---
4970.00	H	---	-13.00	---
5680.00	H	---	-13.00	---
6390.00	H	---	-13.00	---
7100.00	H	---	-13.00	---
7725.00	S	-22.42	-13.00	9.42

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Fundamental Frequency :711MHz Engineer :Nick  
 Operation Mode :TX High

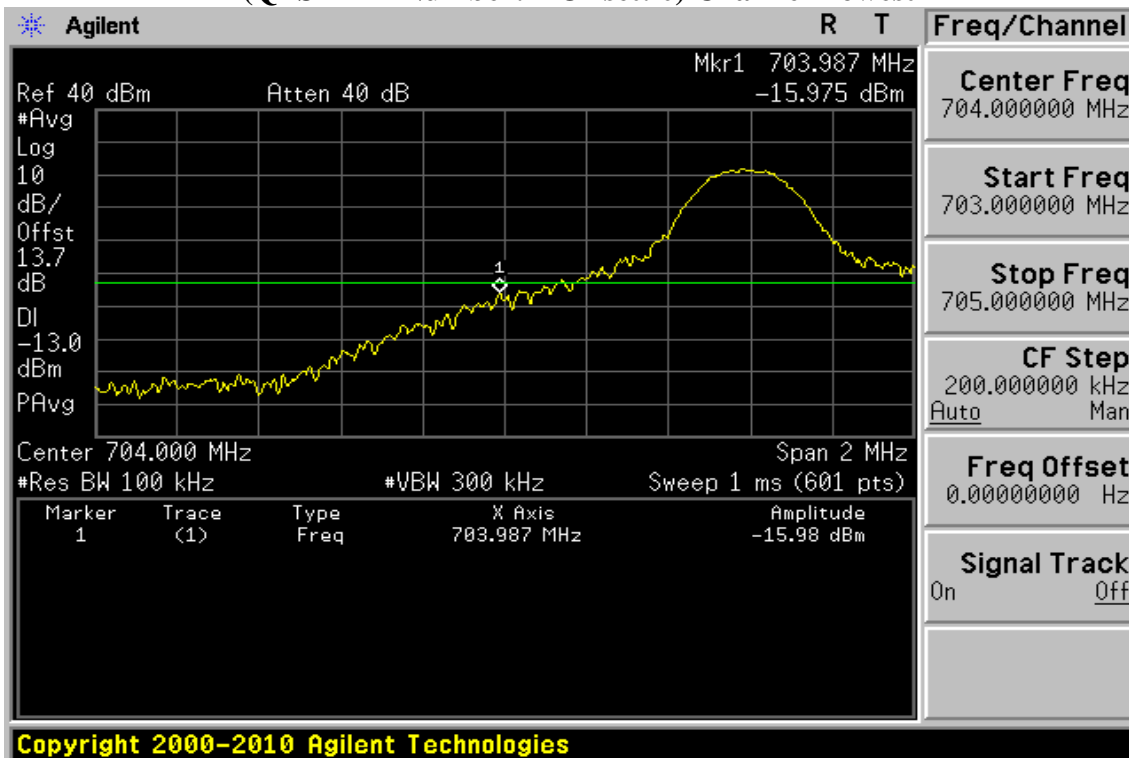
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1422.00	H	---	-13.00	---
2133.00	H	---	-13.00	---
2844.00	H	---	-13.00	---
3555.00	H	---	-13.00	---
4266.00	H	---	-13.00	---
4977.00	H	---	-13.00	---
5688.00	H	---	-13.00	---
6399.00	H	---	-13.00	---
6978.00	S	-22.05	-13.00	9.05
7110.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "" : denotes Spurious Freque

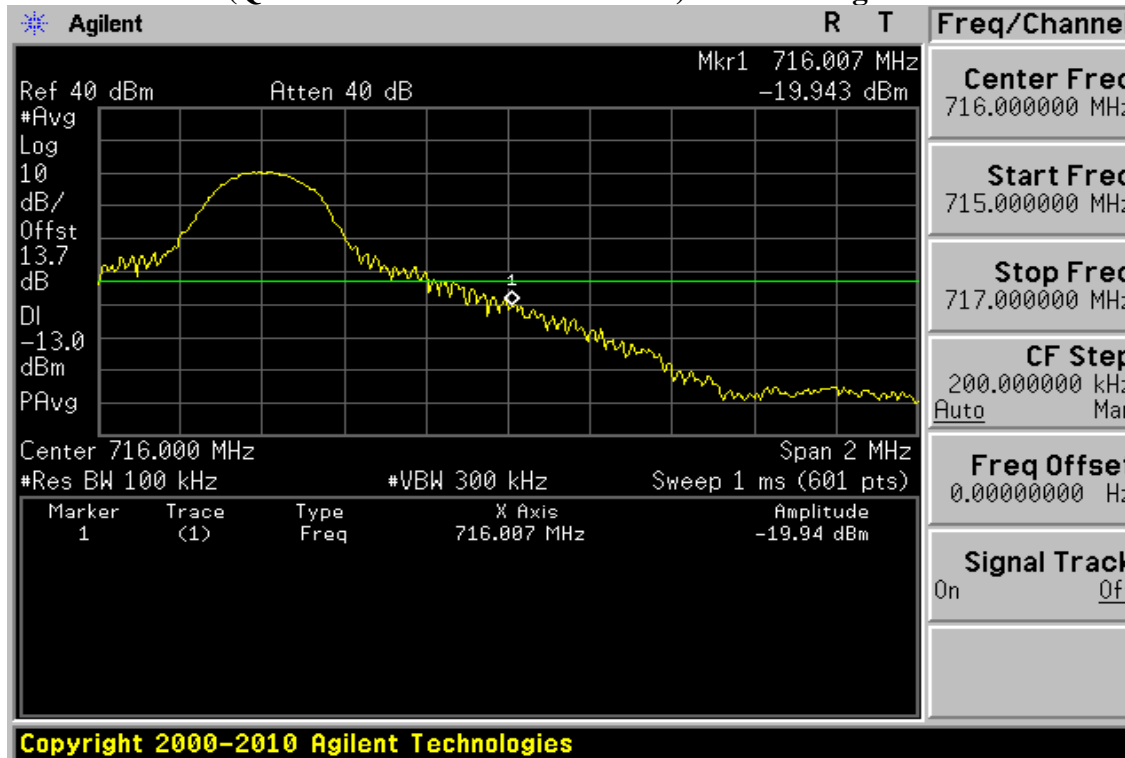
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**Figure 9-317: Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-318: Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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f (886-2) 2298-0488

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**Band edge emission at antenna terminals –10MHz BW LTE-Band 17**

**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)**

Test Mode 10MHz BW LTE-Band 17 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
703.987	-15.98	-13.00	2.98
716.007	-19.97	-13.00	6.97

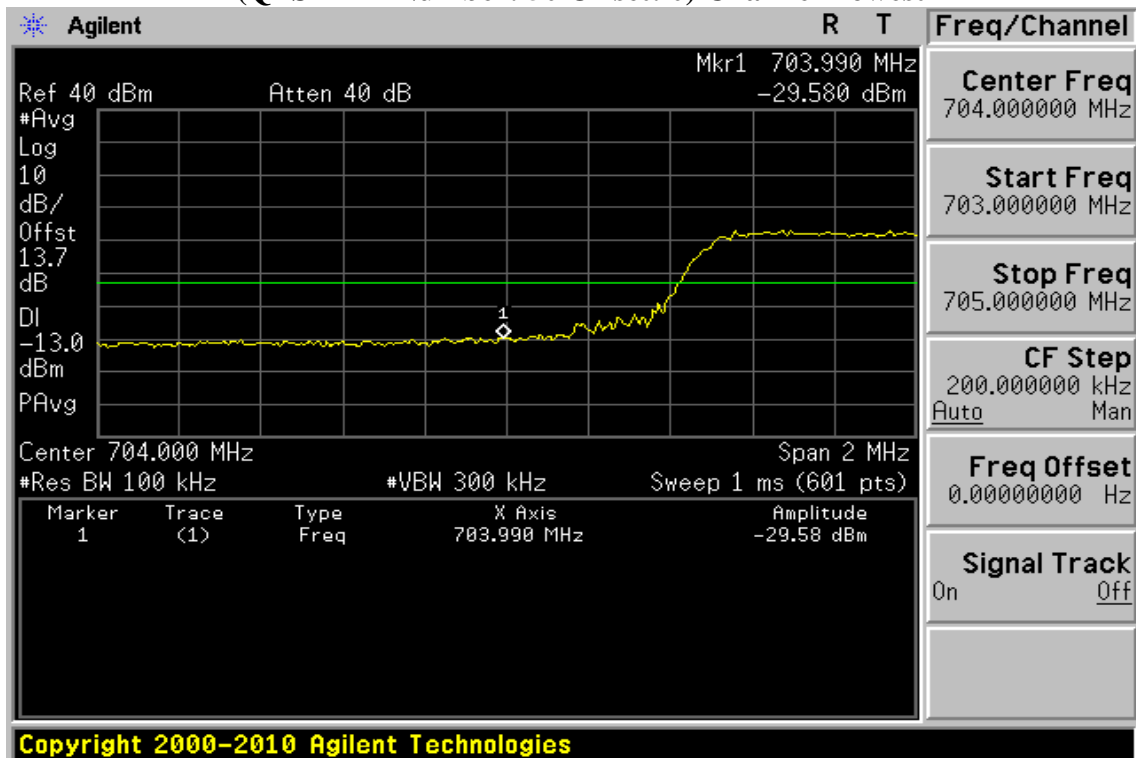
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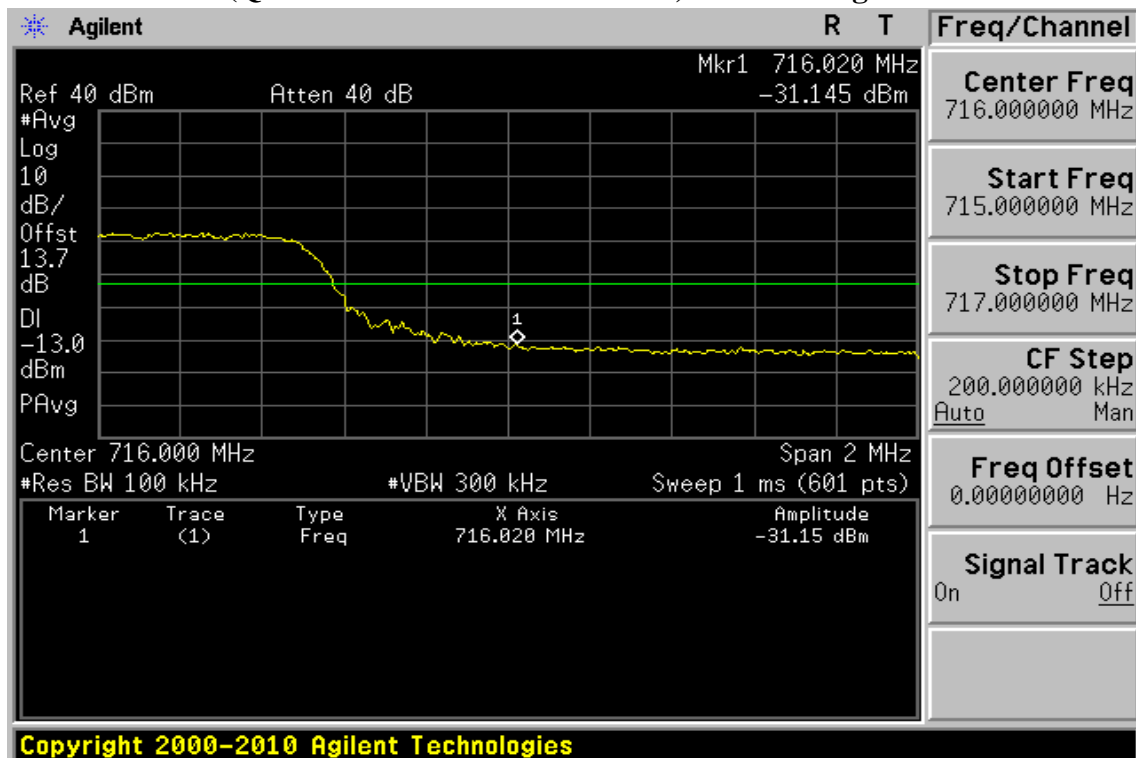
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**Figure 9-319: Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-320: Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 17**

**(QPSK RB Number: 50 Offset: 0)**

Test Mode                      10MHz BW LTE-Band 7      Engineer                                      :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
703.999	-29.58	-13.00	16.58
716.020	-31.15	-13.00	18.15

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## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 10.1. Standard Applicable:

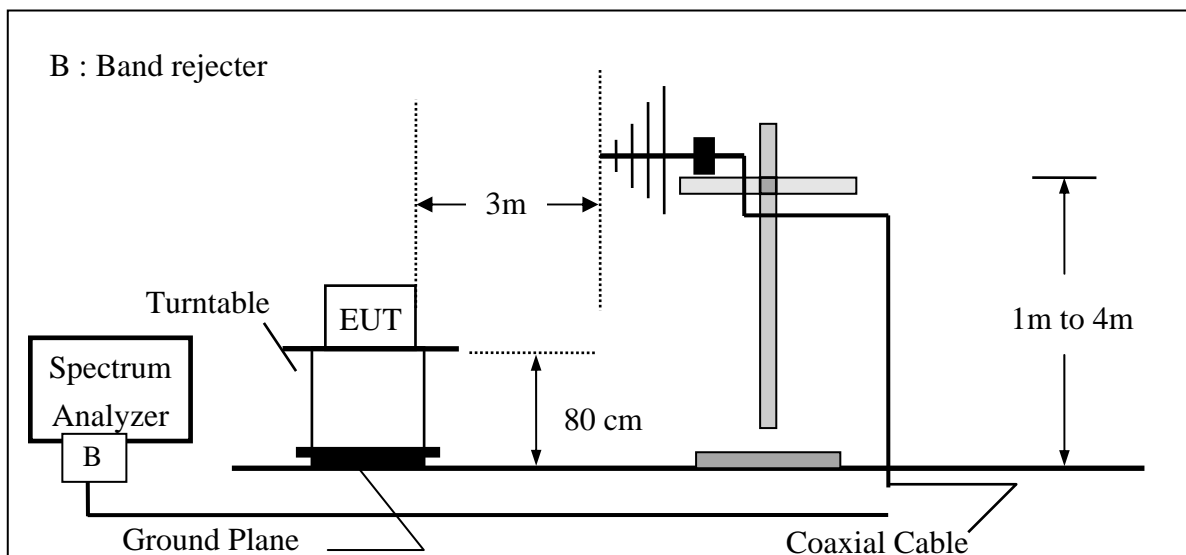
According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(c) (2) (5), §27.53(g) (h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm). §27.53 (m) (4) shall not be less than  $55 + 10 \log$  (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm). §27.53 (c) (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

### 10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



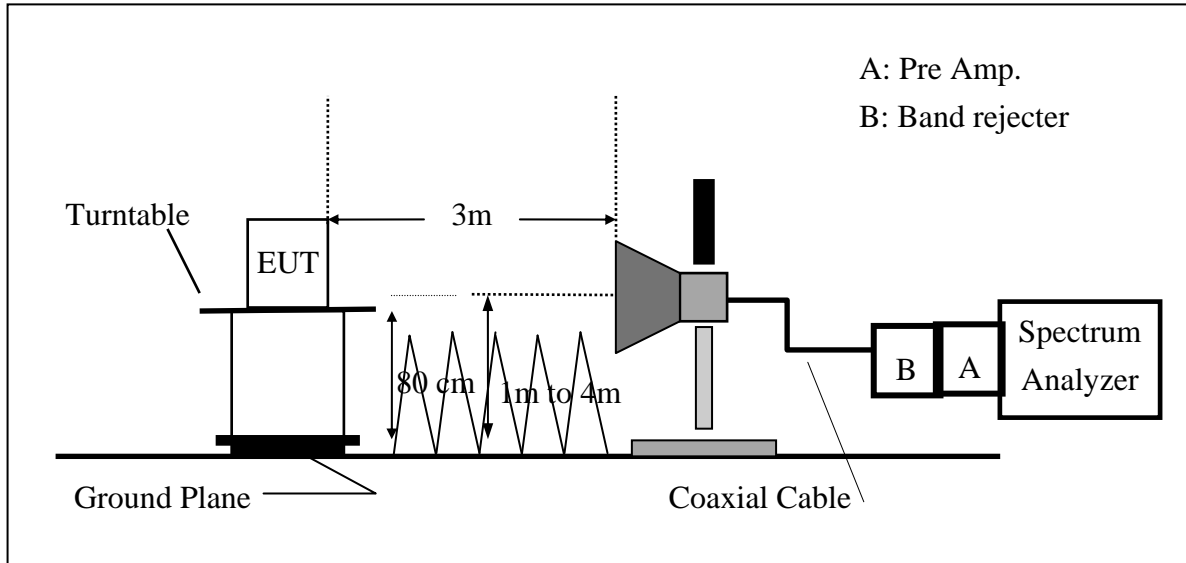
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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 721

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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

ARFCN	:CH 128	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	S	-66.90	-54.11	-11.92	-0.88	-13.00	-53.90
314.21	S	-70.98	-72.90	3.82	-1.90	-13.00	-57.98
450.01	S	-71.70	-73.32	3.84	-2.22	-13.00	-58.70
603.27	S	-68.73	-69.77	3.66	-2.62	-13.00	-55.73
770.11	S	-55.17	-55.98	3.71	-2.89	-13.00	-42.17
937.92	S	-66.52	-66.59	3.39	-3.32	-13.00	-53.52
1648.40	H	-62.16	-61.30	3.56	-4.42	-13.00	-49.16
2472.60	H	-53.19	-51.91	4.18	-5.45	-13.00	-40.19
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	-49.76	-49.84	10.40	-10.32	-13.00	-36.76

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 128	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
94.02	S	-75.02	-73.26	-0.56	-1.20	-13.00	-62.02
241.46	S	-68.80	-70.41	3.29	-1.68	-13.00	-55.80
339.43	S	-72.03	-74.06	3.99	-1.96	-13.00	-59.03
599.39	S	-68.65	-69.67	3.65	-2.62	-13.00	-55.65
771.08	S	-54.55	-55.36	3.71	-2.89	-13.00	-41.55
936.95	S	-66.18	-66.26	3.39	-3.32	-13.00	-53.18
1648.40	H	-64.69	-63.83	3.56	-4.42	-13.00	-51.69
2472.60	H	-50.59	-49.32	4.18	-5.45	-13.00	-37.59
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	-52.05	-52.13	10.40	-10.32	-13.00	-39.05

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 190	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	S	-66.91	-54.12	-11.92	-0.88	-13.00	-53.91
269.59	S	-73.24	-74.77	3.30	-1.78	-13.00	-60.24
428.67	S	-72.28	-74.04	3.92	-2.16	-13.00	-59.28
644.01	S	-65.76	-66.99	3.90	-2.68	-13.00	-52.76
770.11	S	-52.78	-53.59	3.71	-2.89	-13.00	-39.78
946.65	S	-66.90	-66.91	3.35	-3.33	-13.00	-53.90
1673.20	H	-62.75	-61.79	3.49	-4.45	-13.00	-49.75
2509.80	H	-54.00	-52.78	4.28	-5.49	-13.00	-41.00
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	-48.13	-48.25	10.52	-10.40	-13.00	-35.13

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 190	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
91.11	S	-74.31	-72.78	-0.33	-1.20	-13.00	-61.31
240.49	S	-69.66	-71.27	3.29	-1.67	-13.00	-56.66
448.07	S	-70.94	-72.58	3.85	-2.21	-13.00	-57.94
593.57	S	-69.36	-70.43	3.67	-2.60	-13.00	-56.36
770.11	S	-54.78	-55.60	3.71	-2.89	-13.00	-41.78
937.92	S	-66.66	-66.73	3.39	-3.32	-13.00	-53.66
1673.20	H	-64.90	-63.94	3.49	-4.45	-13.00	-51.90
2509.80	H	-52.56	-51.35	4.28	-5.49	-13.00	-39.56
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	-53.13	-53.24	10.52	-10.40	-13.00	-40.13

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 251	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
46.49	S	-67.06	-54.59	-11.54	-0.93	-13.00	-54.06
100.81	S	-74.90	-72.57	-1.13	-1.20	-13.00	-61.90
301.60	S	-71.55	-73.41	3.73	-1.87	-13.00	-58.55
522.76	S	-71.96	-73.47	3.93	-2.42	-13.00	-58.96
772.05	S	-56.13	-56.95	3.71	-2.89	-13.00	-43.13
924.34	S	-67.09	-67.24	3.45	-3.30	-13.00	-54.09
1697.60	H	-62.22	-61.17	3.43	-4.48	-13.00	-49.22
2546.40	H	-56.57	-55.39	4.37	-5.54	-13.00	-43.57
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	-49.58	-49.74	10.64	-10.48	-13.00	-36.58

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 251	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
91.11	S	-73.22	-71.70	-0.33	-1.20	-13.00	-60.22
243.40	S	-68.78	-70.40	3.30	-1.68	-13.00	-55.78
447.10	S	-71.01	-72.66	3.85	-2.21	-13.00	-58.01
644.98	S	-67.11	-68.34	3.91	-2.68	-13.00	-54.11
770.11	S	-54.23	-55.05	3.71	-2.89	-13.00	-41.23
952.47	S	-66.39	-66.23	3.19	-3.34	-13.00	-53.39
1697.60	H	-63.96	-62.91	3.43	-4.48	-13.00	-50.96
2546.40	H	-53.19	-52.02	4.37	-5.54	-13.00	-40.19
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	-49.20	-49.36	10.64	-10.48	-13.00	-36.20

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: GSM 1900 Mode**

ARFCN	:CH 512	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
42.61	S	-65.54	-54.88	-9.81	-0.86	-13.00	-52.54
163.86	S	-72.87	-72.83	1.38	-1.42	-13.00	-59.87
342.34	S	-71.80	-76.00	6.16	-1.96	-13.00	-58.80
513.06	S	-71.21	-74.91	6.09	-2.39	-13.00	-58.21
772.05	S	-53.90	-56.87	5.86	-2.89	-13.00	-40.90
940.83	S	-64.88	-67.08	5.53	-3.32	-13.00	-51.88
3700.40	H	-51.64	-53.97	9.13	-6.80	-13.00	-38.64
5550.60	H	-43.72	-45.82	10.50	-8.40	-13.00	-30.72
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 512	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
108.57	S	-73.56	-72.36	0.03	-1.24	-13.00	-60.56
242.43	S	-67.56	-71.32	5.45	-1.68	-13.00	-54.56
434.49	S	-68.44	-72.32	6.05	-2.17	-13.00	-55.44
596.48	S	-66.09	-69.28	5.81	-2.61	-13.00	-53.09
773.99	S	-55.36	-58.32	5.86	-2.90	-13.00	-42.36
946.65	S	-64.84	-67.01	5.50	-3.33	-13.00	-51.84
3700.40	H	-55.10	-57.42	9.13	-6.80	-13.00	-42.10
5550.60	H	-46.29	-48.39	10.50	-8.40	-13.00	-33.29
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
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ARFCN	:CH 661	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
43.58	S	-64.98	-54.34	-9.77	-0.88	-13.00	-51.98
255.04	S	-71.22	-74.90	5.41	-1.73	-13.00	-58.22
526.64	S	-69.82	-73.47	6.07	-2.43	-13.00	-56.82
652.74	S	-64.89	-68.29	6.09	-2.69	-13.00	-51.89
769.14	S	-54.82	-57.79	5.85	-2.89	-13.00	-41.82
935.98	S	-63.93	-66.16	5.55	-3.32	-13.00	-50.93
3760.00	H	-49.71	-52.02	9.16	-6.85	-13.00	-36.71
5640.00	H	-45.95	-47.98	10.50	-8.47	-13.00	-32.95
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 661	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-72.65	-72.96	1.51	-1.20	-13.00	-59.65
238.55	S	-67.78	-71.62	5.51	-1.67	-13.00	-54.78
445.16	S	-68.45	-72.26	6.01	-2.20	-13.00	-55.45
647.89	S	-65.65	-69.05	6.08	-2.68	-13.00	-52.65
770.11	S	-54.83	-57.79	5.86	-2.89	-13.00	-41.83
940.83	S	-64.45	-66.65	5.53	-3.32	-13.00	-51.45
3760.00	H	-53.72	-56.03	9.16	-6.85	-13.00	-40.72
5640.00	H	-46.07	-48.09	10.50	-8.47	-13.00	-33.07
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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ARFCN	:CH 810	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
43.58	S	-65.68	-55.04	-9.77	-0.88	-13.00	-52.68
236.61	S	-70.13	-74.08	5.61	-1.66	-13.00	-57.13
543.13	S	-69.86	-73.43	6.05	-2.47	-13.00	-56.86
711.91	S	-65.30	-68.52	5.98	-2.77	-13.00	-52.30
773.02	S	-52.99	-55.95	5.86	-2.90	-13.00	-39.99
950.53	S	-63.39	-65.51	5.45	-3.34	-13.00	-50.39
3819.60	H	-48.54	-50.84	9.20	-6.90	-13.00	-35.54
5729.40	H	-45.15	-47.10	10.50	-8.54	-13.00	-32.15
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
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ARFCN	:CH 810	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
89.17	S	-73.97	-74.51	1.72	-1.18	-13.00	-60.97
241.46	S	-67.81	-71.57	5.44	-1.68	-13.00	-54.81
379.20	S	-70.31	-74.47	6.19	-2.03	-13.00	-57.31
436.43	S	-69.02	-72.88	6.04	-2.18	-13.00	-56.02
645.95	S	-64.89	-68.28	6.07	-2.68	-13.00	-51.89
772.05	S	-54.74	-57.70	5.86	-2.89	-13.00	-41.74
3819.60	H	-52.47	-54.76	9.20	-6.90	-13.00	-39.47
5729.40	H	-46.41	-48.36	10.50	-8.54	-13.00	-33.41
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: WCDMA II Mode**

ARFCN	:CH 9262	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-53.91	-41.38	-11.72	-0.80	-13.00	-40.91
287.05	S	-70.53	-74.24	5.53	-1.83	-13.00	-57.53
471.35	S	-70.48	-74.25	6.04	-2.28	-13.00	-57.48
629.46	S	-66.84	-70.16	5.97	-2.66	-13.00	-53.84
771.08	S	-52.78	-55.74	5.86	-2.89	-13.00	-39.78
921.43	S	-64.79	-67.11	5.61	-3.29	-13.00	-51.79
3704.80	H	-54.31	-56.64	9.13	-6.80	-13.00	-41.31
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

$EIRP (dBm) = SG \text{ Level}(dBm) + Antenna \text{ Gain}(dBi) + Cable \text{ Loss}(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 9262	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
87.23	S	-70.10	-70.23	1.27	-1.15	-13.00	-57.10
287.05	S	-69.61	-73.32	5.53	-1.83	-13.00	-56.61
433.52	S	-69.98	-73.86	6.05	-2.17	-13.00	-56.98
649.83	S	-64.69	-68.10	6.09	-2.68	-13.00	-51.69
773.02	S	-52.24	-55.20	5.86	-2.90	-13.00	-39.24
951.50	S	-64.65	-66.70	5.40	-3.34	-13.00	-51.65
3704.80	H	-56.81	-59.13	9.13	-6.80	-13.00	-43.81
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 9400	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-54.06	-41.53	-11.72	-0.80	-13.00	-41.06
179.38	S	-73.16	-74.83	3.14	-1.46	-13.00	-60.16
325.85	S	-70.08	-74.20	6.05	-1.93	-13.00	-57.08
606.18	S	-67.60	-70.80	5.83	-2.63	-13.00	-54.60
769.14	S	-51.77	-54.74	5.85	-2.89	-13.00	-38.77
917.55	S	-64.61	-66.96	5.63	-3.29	-13.00	-51.61
3760.00	H	-56.04	-58.35	9.16	-6.85	-13.00	-43.04
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 9400	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
88.20	S	-69.48	-69.82	1.50	-1.17	-13.00	-56.48
255.04	S	-70.62	-74.30	5.41	-1.73	-13.00	-57.62
338.46	S	-71.66	-75.84	6.14	-1.95	-13.00	-58.66
582.90	S	-67.52	-70.81	5.87	-2.58	-13.00	-54.52
772.05	S	-51.01	-53.98	5.86	-2.89	-13.00	-38.01
937.92	S	-64.54	-66.76	5.54	-3.32	-13.00	-51.54
3760.00	H	-57.13	-59.44	9.16	-6.85	-13.00	-44.13
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 9538	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-54.46	-42.85	-10.80	-0.80	-13.00	-41.46
237.58	S	-72.86	-76.75	5.56	-1.66	-13.00	-59.86
427.70	S	-70.92	-74.83	6.07	-2.15	-13.00	-57.92
642.07	S	-64.91	-68.28	6.04	-2.67	-13.00	-51.91
773.99	S	-53.15	-56.11	5.86	-2.90	-13.00	-40.15
930.16	S	-64.08	-66.35	5.57	-3.31	-13.00	-51.08
3815.20	H	-54.81	-57.11	9.19	-6.90	-13.00	-41.81
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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ARFCN	:CH 9538	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
86.26	S	-69.03	-68.95	1.04	-1.13	-13.00	-56.03
246.31	S	-69.84	-73.61	5.47	-1.69	-13.00	-56.84
461.65	S	-71.37	-75.14	6.02	-2.25	-13.00	-58.37
638.19	S	-65.49	-68.84	6.02	-2.67	-13.00	-52.49
772.05	S	-51.21	-54.17	5.86	-2.89	-13.00	-38.21
939.86	S	-64.66	-66.87	5.53	-3.32	-13.00	-51.66
3815.20	H	-55.76	-58.05	9.19	-6.90	-13.00	-42.76
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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**Radiated Spurious Emission Measurement Result: WCDMA IV Mode**

ARFCN	:CH 1312	Test Date	:2014-11-19
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-53.71	-41.19	-11.72	-0.80	-13.00	-40.71
167.74	S	-73.40	-73.52	1.54	-1.43	-13.00	-60.40
418.00	S	-72.24	-76.22	6.11	-2.13	-13.00	-59.24
604.24	S	-66.59	-69.78	5.82	-2.63	-13.00	-53.59
772.05	S	-51.57	-54.54	5.86	-2.89	-13.00	-38.57
938.89	S	-63.86	-66.07	5.53	-3.32	-13.00	-50.86
3424.80	H	-54.86	-57.12	8.80	-6.55	-13.00	-41.86
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 1312	Test Date	:2014-11-19
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
91.11	S	-68.66	-69.29	1.82	-1.20	-13.00	-55.66
248.25	S	-70.08	-73.86	5.48	-1.70	-13.00	-57.08
507.24	S	-70.70	-74.42	6.10	-2.37	-13.00	-57.70
656.62	S	-64.95	-68.34	6.08	-2.69	-13.00	-51.95
773.99	S	-50.31	-53.28	5.86	-2.90	-13.00	-37.31
937.92	S	-64.44	-66.67	5.54	-3.32	-13.00	-51.44
3424.80	H	-55.41	-57.67	8.80	-6.55	-13.00	-42.41
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
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ARFCN	:CH 1413	Test Date	:2014-11-19
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-54.19	-41.67	-11.72	-0.80	-13.00	-41.19
248.25	S	-71.90	-75.68	5.48	-1.70	-13.00	-58.90
341.37	S	-70.11	-74.31	6.16	-1.96	-13.00	-57.11
633.34	S	-65.44	-68.77	5.99	-2.66	-13.00	-52.44
773.02	S	-51.48	-54.44	5.86	-2.90	-13.00	-38.48
935.01	S	-64.87	-67.11	5.55	-3.31	-13.00	-51.87
3465.20	H	-53.46	-55.78	8.91	-6.59	-13.00	-40.46
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 1413	Test Date	:2014-11-19
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	S	-69.66	-70.29	1.82	-1.20	-13.00	-56.66
263.77	S	-70.31	-73.93	5.38	-1.76	-13.00	-57.31
515.97	S	-70.12	-73.81	6.09	-2.40	-13.00	-57.12
646.92	S	-63.81	-67.21	6.07	-2.68	-13.00	-50.81
773.02	S	-52.60	-55.57	5.86	-2.90	-13.00	-39.60
936.95	S	-64.73	-66.95	5.54	-3.32	-13.00	-51.73
3465.20	H	-52.91	-55.23	8.91	-6.59	-13.00	-39.91
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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ARFCN	:CH 1513	Test Date	:2014-11-19
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.85	S	-54.42	-42.60	-11.02	-0.80	-13.00	-41.42
256.98	S	-71.07	-74.71	5.38	-1.73	-13.00	-58.07
450.98	S	-70.68	-74.45	6.00	-2.22	-13.00	-57.68
644.98	S	-65.06	-68.44	6.06	-2.68	-13.00	-52.06
773.02	S	-53.54	-56.50	5.86	-2.90	-13.00	-40.54
960.23	S	-64.15	-65.68	4.88	-3.35	-13.00	-51.15
3505.20	H	-56.25	-58.63	9.00	-6.62	-13.00	-43.25
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 1513	Test Date	:2014-11-19
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
88.20	S	-68.07	-68.40	1.50	-1.17	-13.00	-55.07
277.35	S	-69.97	-73.79	5.62	-1.80	-13.00	-56.97
577.08	S	-67.84	-71.18	5.90	-2.56	-13.00	-54.84
651.77	S	-64.67	-68.07	6.09	-2.68	-13.00	-51.67
773.02	S	-52.33	-55.29	5.86	-2.90	-13.00	-39.33
950.53	S	-63.99	-66.11	5.45	-3.34	-13.00	-50.99
3505.20	H	-56.79	-59.17	9.00	-6.62	-13.00	-43.79
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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t (886-2) 2299-3279

f (886-2) 2298-0488

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**Radiated Spurious Emission Measurement Result: WCDMA V Mode**

ARFCN	:CH 4132	Test Date	:2014-11-29
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
35.82	S	-57.19	-43.44	-12.95	-0.80	-13.00	-44.19
181.32	S	-75.89	-75.75	1.32	-1.47	-13.00	-62.89
311.30	S	-72.30	-74.21	3.80	-1.90	-13.00	-59.30
590.66	S	-70.06	-71.15	3.69	-2.60	-13.00	-57.06
773.02	S	-56.29	-57.10	3.71	-2.90	-13.00	-43.29
899.12	S	-67.04	-67.36	3.57	-3.26	-13.00	-54.04
1652.80	H	-62.88	-62.00	3.55	-4.42	-13.00	-49.88
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 4132	Test Date	:2014-11-29
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
91.11	S	-70.86	-69.33	-0.33	-1.20	-13.00	-57.86
241.46	S	-69.01	-70.63	3.29	-1.68	-13.00	-56.01
475.23	S	-73.16	-74.78	3.90	-2.29	-13.00	-60.16
642.07	S	-66.91	-68.13	3.89	-2.67	-13.00	-53.91
770.11	S	-54.91	-55.73	3.71	-2.89	-13.00	-41.91
907.85	S	-66.77	-67.03	3.53	-3.27	-13.00	-53.77
1652.80	H	-65.20	-64.32	3.55	-4.42	-13.00	-52.20
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 4183	Test Date	:2014-11-29
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.94	S	-55.98	-41.31	-13.87	-0.80	-13.00	-42.98
277.35	S	-72.72	-74.39	3.47	-1.80	-13.00	-59.72
547.01	S	-72.09	-73.50	3.89	-2.48	-13.00	-59.09
684.75	S	-66.76	-67.94	3.90	-2.72	-13.00	-53.76
773.99	S	-53.29	-54.11	3.71	-2.90	-13.00	-40.29
960.23	S	-67.10	-66.48	2.73	-3.35	-13.00	-54.10
1673.20	H	-62.82	-61.86	3.49	-4.45	-13.00	-49.82
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
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ARFCN	:CH 4183	Test Date	:2014-11-29
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
95.96	S	-70.35	-68.44	-0.71	-1.20	-13.00	-57.35
242.43	S	-69.33	-70.95	3.30	-1.68	-13.00	-56.33
427.70	S	-72.91	-74.67	3.92	-2.15	-13.00	-59.91
636.25	S	-67.38	-68.57	3.86	-2.67	-13.00	-54.38
771.08	S	-55.43	-56.25	3.71	-2.89	-13.00	-42.43
950.53	S	-67.02	-66.98	3.30	-3.34	-13.00	-54.02
1673.20	H	-64.86	-63.90	3.49	-4.45	-13.00	-51.86
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 4233	Test Date	:2014-11-29
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
32.91	S	-57.64	-43.21	-13.63	-0.80	-13.00	-44.64
328.76	S	-71.59	-73.58	3.92	-1.93	-13.00	-58.59
533.43	S	-71.90	-73.36	3.91	-2.45	-13.00	-58.90
644.01	S	-67.04	-68.27	3.90	-2.68	-13.00	-54.04
771.08	S	-54.60	-55.41	3.71	-2.89	-13.00	-41.60
897.18	S	-65.26	-65.58	3.58	-3.25	-13.00	-52.26
1693.20	H	-60.98	-59.95	3.44	-4.48	-13.00	-47.98
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 4233	Test Date	:2014-11-29
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
88.20	S	-70.75	-68.94	-0.65	-1.17	-13.00	-57.75
239.52	S	-68.93	-70.57	3.31	-1.67	-13.00	-55.93
486.87	S	-73.35	-74.96	3.93	-2.32	-13.00	-60.35
647.89	S	-66.59	-67.84	3.93	-2.68	-13.00	-53.59
771.08	S	-51.50	-52.32	3.71	-2.89	-13.00	-38.50
948.59	S	-65.90	-65.91	3.34	-3.33	-13.00	-52.90
1693.20	H	-63.95	-62.92	3.44	-4.48	-13.00	-50.95
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)**

ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-53.34	-38.67	-13.87	-0.80	-13.00	-40.34
275.41	S	-73.28	-74.91	3.43	-1.79	-13.00	-60.28
300.63	S	-73.02	-74.88	3.73	-1.87	-13.00	-60.02
524.70	S	-70.96	-72.46	3.92	-2.42	-13.00	-57.96
683.78	S	-67.11	-68.29	3.90	-2.72	-13.00	-54.11
957.32	S	-65.65	-65.20	2.90	-3.35	-13.00	-52.65
3701.40	H	-52.98	-55.30	9.13	-6.80	-13.00	-39.98
5552.10	H	---					
7402.80	H	---					
9253.50	H	---					
11104.20	H	---					
12954.90	H	---					
14805.60	H	---					
16656.30	H	---					
18507.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
89.17	S	-70.83	-69.22	-0.43	-1.18	-13.00	-57.83
258.92	S	-71.72	-73.18	3.20	-1.74	-13.00	-58.72
291.90	S	-72.63	-74.19	3.40	-1.85	-13.00	-59.63
538.28	S	-71.73	-73.18	3.90	-2.46	-13.00	-58.73
683.78	S	-66.67	-67.85	3.90	-2.72	-13.00	-53.67
950.53	S	-66.15	-66.12	3.30	-3.34	-13.00	-53.15
3701.40	H	-54.82	-57.15	9.13	-6.80	-13.00	-41.82
5552.10	H	---					
7402.80	H	---					
9253.50	H	---					
11104.20	H	---					
12954.90	H	---					
14805.60	H	---					
16656.30	H	---					
18507.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-54.55	-40.12	-13.63	-0.80	-13.00	-41.55
280.26	S	-73.15	-74.86	3.52	-1.81	-13.00	-60.15
292.87	S	-72.29	-73.88	3.44	-1.85	-13.00	-59.29
536.34	S	-70.33	-71.78	3.91	-2.45	-13.00	-57.33
727.43	S	-66.36	-67.33	3.77	-2.80	-13.00	-53.36
949.56	S	-65.65	-65.65	3.34	-3.34	-13.00	-52.65
3760.00	H	-52.03	-54.34	9.16	-6.85	-13.00	-39.03
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 18900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
89.17	S	-68.69	-67.08	-0.43	-1.18	-13.00	-55.69
275.41	S	-71.80	-73.43	3.43	-1.79	-13.00	-58.80
295.78	S	-71.96	-73.66	3.56	-1.86	-13.00	-58.96
542.16	S	-71.39	-72.82	3.90	-2.47	-13.00	-58.39
705.12	S	-66.55	-67.66	3.86	-2.75	-13.00	-53.55
940.83	S	-66.15	-66.20	3.38	-3.32	-13.00	-53.15
3760.00	H	-56.74	-59.05	9.16	-6.85	-13.00	-43.74
5640.00	H	---	---	---	---	---	---
7520.00	H	---	---	---	---	---	---
9400.00	H	---	---	---	---	---	---
11280.00	H	---	---	---	---	---	---
13160.00	H	---	---	---	---	---	---
15040.00	H	---	---	---	---	---	---
16920.00	H	---	---	---	---	---	---
18800.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 19193 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-55.15	-40.48	-13.87	-0.80	-13.00	-42.15
243.40	S	-72.78	-74.40	3.30	-1.68	-13.00	-59.78
295.78	S	-71.76	-73.46	3.56	-1.86	-13.00	-58.76
529.55	S	-71.59	-73.07	3.92	-2.44	-13.00	-58.59
750.71	S	-66.80	-67.63	3.68	-2.85	-13.00	-53.80
900.09	S	-66.14	-66.45	3.56	-3.26	-13.00	-53.14
3818.60	H	-49.28	-51.57	9.20	-6.90	-13.00	-36.28
5727.90	H	---					
7637.20	H	---					
9546.50	H	---					
11455.80	H	---					
13365.10	H	---					
15274.40	H	---					
17183.70	H	---					
19093.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 19193 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
89.17	S	-69.43	-67.82	-0.43	-1.18	-13.00	-56.43
276.38	S	-71.92	-73.57	3.45	-1.80	-13.00	-58.92
292.87	S	-71.93	-73.52	3.44	-1.85	-13.00	-58.93
532.46	S	-70.84	-72.31	3.91	-2.44	-13.00	-57.84
707.06	S	-66.18	-67.28	3.85	-2.76	-13.00	-53.18
949.56	S	-65.43	-65.43	3.34	-3.34	-13.00	-52.43
3818.60	H	-53.08	-55.38	9.20	-6.90	-13.00	-40.08
5727.90	H	---					
7637.20	H	---					
9546.50	H	---					
11455.80	H	---					
13365.10	H	---					
15274.40	H	---					
17183.70	H	---					
19093.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 4(The Worst Case)**

ARFCN	:CH 19975 16QAM BW 5	Test Date	:2014-11-17
	RB 1 0		
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
30.97	S	-54.57	-41.79	-11.97	-0.80	-13.00	-41.57
242.43	S	-70.66	-74.43	5.45	-1.68	-13.00	-57.66
300.63	S	-69.89	-73.90	5.88	-1.87	-13.00	-56.89
525.67	S	-69.85	-73.49	6.07	-2.42	-13.00	-56.85
713.85	S	-63.80	-67.00	5.97	-2.77	-13.00	-50.80
945.68	S	-64.33	-66.50	5.50	-3.33	-13.00	-51.33
3425.00	H	-45.37	-47.63	8.80	-6.55	-13.00	-32.37
5137.50	H	---					
6850.00	H	---					
8562.50	H	---					
10275.00	H	---					
11987.50	H	---					
13700.00	H	---					
15412.50	H	---					
17125.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
86.26	S	-69.09	-69.01	1.04	-1.13	-13.00	-56.09
241.46	S	-67.53	-71.29	5.44	-1.68	-13.00	-54.53
523.73	S	-69.84	-73.50	6.07	-2.42	-13.00	-56.84
626.55	S	-67.16	-70.46	5.95	-2.65	-13.00	-54.16
772.05	S	-55.58	-58.55	5.86	-2.89	-13.00	-42.58
949.56	S	-64.61	-66.76	5.49	-3.34	-13.00	-51.61
3425.00	H	-47.05	-49.30	8.80	-6.55	-13.00	-34.05
5137.50	H	---					
6850.00	H	---					
8562.50	H	---					
10275.00	H	---					
11987.50	H	---					
13700.00	H	---					
15412.50	H	---					
17125.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-53.43	-40.90	-11.72	-0.80	-13.00	-40.43
279.29	S	-71.48	-75.33	5.66	-1.81	-13.00	-58.48
425.76	S	-70.88	-74.81	6.08	-2.15	-13.00	-57.88
518.88	S	-69.70	-73.38	6.08	-2.40	-13.00	-56.70
726.46	S	-63.32	-66.45	5.92	-2.80	-13.00	-50.32
936.95	S	-63.32	-65.55	5.54	-3.32	-13.00	-50.32
3465.00	H	-45.20	-47.52	8.91	-6.59	-13.00	-32.20
5197.50	H	---					
6930.00	H	---					
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
90.14	S	-68.95	-69.66	1.90	-1.20	-13.00	-55.95
240.49	S	-66.56	-70.32	5.44	-1.67	-13.00	-53.56
453.89	S	-70.62	-74.40	6.00	-2.23	-13.00	-57.62
605.21	S	-67.17	-70.37	5.82	-2.63	-13.00	-54.17
769.14	S	-56.32	-59.29	5.85	-2.89	-13.00	-43.32
937.92	S	-63.56	-65.78	5.54	-3.32	-13.00	-50.56
3465.00	H	-48.74	-51.06	8.91	-6.59	-13.00	-35.74
5197.50	H	---					
6930.00	H	---					
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-54.04	-41.52	-11.72	-0.80	-13.00	-41.04
242.43	S	-70.83	-74.59	5.45	-1.68	-13.00	-57.83
442.25	S	-69.94	-73.77	6.02	-2.20	-13.00	-56.94
522.76	S	-70.23	-73.89	6.08	-2.42	-13.00	-57.23
708.03	S	-64.12	-67.36	6.00	-2.76	-13.00	-51.12
935.98	S	-64.76	-66.99	5.55	-3.32	-13.00	-51.76
3505.00	H	-47.46	-49.84	9.00	-6.62	-13.00	-34.46
5257.50	H	---					
7010.00	H	---					
8762.50	H	---					
10515.00	H	---					
12267.50	H	---					
14020.00	H	---					
15772.50	H	---					
17525.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
90.14	S	-69.30	-70.01	1.90	-1.20	-13.00	-56.30
240.49	S	-66.50	-70.27	5.44	-1.67	-13.00	-53.50
515.00	S	-69.88	-73.57	6.09	-2.39	-13.00	-56.88
651.77	S	-64.78	-68.18	6.09	-2.68	-13.00	-51.78
772.05	S	-56.13	-59.09	5.86	-2.89	-13.00	-43.13
966.05	S	-64.22	-65.41	4.54	-3.36	-13.00	-51.22
3505.00	H	-49.49	-51.86	9.00	-6.62	-13.00	-36.49
5257.50	H	---					
7010.00	H	---					
8762.50	H	---					
10515.00	H	---					
12267.50	H	---					
14020.00	H	---					
15772.50	H	---					
17525.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 5(The Worst Case)**

ARFCN	:CH 20450 16QAM BW	Test Date	:2014-11-18
	10 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.94	S	-53.95	-39.27	-13.87	-0.80	-13.00	-40.95
88.20	S	-73.07	-71.26	-0.65	-1.17	-13.00	-60.07
272.50	S	-71.18	-72.76	3.36	-1.78	-13.00	-58.18
525.67	S	-71.89	-73.39	3.92	-2.42	-13.00	-58.89
773.02	S	-55.56	-56.37	3.71	-2.90	-13.00	-42.56
937.92	S	-66.18	-66.25	3.39	-3.32	-13.00	-53.18
1658.00	H	-59.53	-58.63	3.53	-4.43	-13.00	-46.53
2487.00	H	---					
3316.00	H	---					
4145.00	H	---					
4974.00	H	---					
5803.00	H	---					
6632.00	H	---					
7461.00	H	---					
8290.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 20450 16QAM BW 10 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
88.20	S	-69.81	-67.99	-0.65	-1.17	-13.00	-56.81
256.98	S	-71.52	-73.02	3.23	-1.73	-13.00	-58.52
423.82	S	-72.34	-74.13	3.93	-2.14	-13.00	-59.34
714.82	S	-63.95	-65.00	3.82	-2.77	-13.00	-50.95
772.05	S	-52.77	-53.59	3.71	-2.89	-13.00	-39.77
950.53	S	-66.49	-66.46	3.30	-3.34	-13.00	-53.49
1658.00	H	-64.65	-63.75	3.53	-4.43	-13.00	-51.65
2487.00	H	---					
3316.00	H	---					
4145.00	H	---					
4974.00	H	---					
5803.00	H	---					
6632.00	H	---					
7461.00	H	---					
8290.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 20525 16QAM BW 10 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.94	S	-53.98	-39.31	-13.87	-0.80	-13.00	-40.98
87.23	S	-72.20	-70.17	-0.88	-1.15	-13.00	-59.20
314.21	S	-71.70	-73.62	3.82	-1.90	-13.00	-58.70
649.83	S	-67.21	-68.47	3.94	-2.68	-13.00	-54.21
770.11	S	-54.48	-55.30	3.71	-2.89	-13.00	-41.48
959.26	S	-66.38	-65.82	2.79	-3.35	-13.00	-53.38
1673.00	H	-62.79	-61.83	3.49	-4.45	-13.00	-49.79
2509.50	H	---					
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 20525 16QAM BW 10 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
91.11	S	-70.62	-69.10	-0.33	-1.20	-13.00	-57.62
260.86	S	-70.92	-72.37	3.19	-1.75	-13.00	-57.92
452.92	S	-72.74	-74.36	3.85	-2.23	-13.00	-59.74
643.04	S	-66.85	-68.07	3.90	-2.67	-13.00	-53.85
772.05	S	-52.48	-53.29	3.71	-2.89	-13.00	-39.48
931.13	S	-66.51	-66.63	3.42	-3.31	-13.00	-53.51
1673.00	H	-64.27	-63.32	3.49	-4.45	-13.00	-51.27
2509.50	H	---					
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.94	S	-53.50	-38.83	-13.87	-0.80	-13.00	-40.50
88.20	S	-71.84	-70.02	-0.65	-1.17	-13.00	-58.84
314.21	S	-71.92	-73.84	3.82	-1.90	-13.00	-58.92
478.14	S	-72.67	-74.29	3.91	-2.29	-13.00	-59.67
772.05	S	-54.07	-54.88	3.71	-2.89	-13.00	-41.07
940.83	S	-66.87	-66.93	3.38	-3.32	-13.00	-53.87
1688.00	H	-60.69	-59.68	3.46	-4.47	-13.00	-47.69
2532.00	H	---					
3376.00	H	---					
4220.00	H	---					
5064.00	H	---					
5908.00	H	---					
6752.00	H	---					
7596.00	H	---					
8440.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
95.96	S	-70.30	-68.39	-0.71	-1.20	-13.00	-57.30
275.41	S	-71.67	-73.30	3.43	-1.79	-13.00	-58.67
511.12	S	-72.17	-73.73	3.94	-2.38	-13.00	-59.17
654.68	S	-66.92	-68.16	3.93	-2.69	-13.00	-53.92
771.08	S	-53.43	-54.24	3.71	-2.89	-13.00	-40.43
953.44	S	-66.39	-66.18	3.13	-3.34	-13.00	-53.39
1688.00	H	-64.96	-63.95	3.46	-4.47	-13.00	-51.96
2532.00	H	---					
3376.00	H	---					
4220.00	H	---					
5064.00	H	---					
5908.00	H	---					
6752.00	H	---					
7596.00	H	---					
8440.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)**

ARFCN	:CH 20775 16QAM BW 5	Test Date	:2014-11-28
	RB 1 24		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-51.35	-38.82	-11.72	-0.80	-25.00	-26.35
243.40	S	-71.03	-74.80	5.45	-1.68	-25.00	-46.03
467.47	S	-71.47	-75.24	6.04	-2.27	-25.00	-46.47
642.07	S	-64.54	-67.91	6.04	-2.67	-25.00	-39.54
770.11	S	-52.16	-55.12	5.86	-2.89	-25.00	-27.16
960.23	S	-64.76	-66.29	4.88	-3.35	-25.00	-39.76
5005.00	H	-43.16	-45.55	10.30	-7.91	-25.00	-18.16
7507.50	H	-42.60	-44.64	11.91	-9.86	-25.00	-17.60
10010.00	H	-28.67	-30.05	12.90	-11.53	-25.00	-3.67
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 20775 16QAM BW 5 RB 1 24	Test Date	:2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
91.11	S	-68.75	-69.38	1.82	-1.20	-25.00	-43.75
243.40	S	-66.60	-70.37	5.45	-1.68	-25.00	-41.60
463.59	S	-70.21	-73.98	6.03	-2.26	-25.00	-45.21
680.87	S	-64.56	-67.89	6.05	-2.72	-25.00	-39.56
773.02	S	-53.55	-56.52	5.86	-2.90	-25.00	-28.55
942.77	S	-64.62	-66.81	5.52	-3.33	-25.00	-39.62
5005.00	H	-45.57	-47.96	10.30	-7.91	-25.00	-20.57
7507.50	H	-40.20	-42.24	11.91	-9.86	-25.00	-15.20
10010.00	H	-33.99	-35.36	12.90	-11.53	-25.00	-8.99
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 21100 16QAM BW 5 RB 1 24	Test Date	:2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-51.17	-38.65	-11.72	-0.80	-25.00	-26.17
239.52	S	-70.05	-73.83	5.46	-1.67	-25.00	-45.05
396.66	S	-72.24	-76.35	6.17	-2.06	-25.00	-47.24
556.71	S	-69.12	-72.62	6.00	-2.51	-25.00	-44.12
648.86	S	-64.18	-67.58	6.08	-2.68	-25.00	-39.18
771.08	S	-53.43	-56.40	5.86	-2.89	-25.00	-28.43
5070.00	H	-43.76	-46.12	10.33	-7.98	-25.00	-18.76
7605.00	H	-43.70	-45.77	11.99	-9.92	-25.00	-18.70
10140.00	H	-26.21	-27.53	12.93	-11.61	-25.00	-1.21
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 21100 16QAM BW 5 RB 1 24	Test Date	:2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
91.11	S	-68.98	-69.61	1.82	-1.20	-25.00	-43.98
241.46	S	-66.48	-70.25	5.44	-1.68	-25.00	-41.48
522.76	S	-70.38	-74.04	6.08	-2.42	-25.00	-45.38
646.92	S	-64.85	-68.24	6.07	-2.68	-25.00	-39.85
769.14	S	-54.34	-57.31	5.85	-2.89	-25.00	-29.34
929.19	S	-64.69	-66.97	5.58	-3.31	-25.00	-39.69
5070.00	H	-46.62	-48.98	10.33	-7.98	-25.00	-21.62
7605.00	H	-39.99	-42.05	11.99	-9.92	-25.00	-14.99
10140.00	H	-33.59	-34.91	12.93	-11.61	-25.00	-8.59
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 21425 16QAM BW 5 RB 1 24	Test Date	:2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-52.49	-39.97	-11.72	-0.80	-25.00	-27.49
164.83	S	-74.03	-74.03	1.42	-1.42	-25.00	-49.03
329.73	S	-71.54	-75.68	6.08	-1.94	-25.00	-46.54
551.86	S	-69.29	-72.82	6.03	-2.50	-25.00	-44.29
773.02	S	-51.09	-54.05	5.86	-2.90	-25.00	-26.09
935.98	S	-64.88	-67.12	5.55	-3.32	-25.00	-39.88
5135.00	H	-44.84	-47.16	10.36	-8.04	-25.00	-19.84
7702.50	H	-44.30	-46.38	12.07	-9.98	-25.00	-19.30
10270.00	H	-31.05	-32.31	12.95	-11.69	-25.00	-6.05
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 21425 16QAM BW 5 RB 1 24	Test Date	:2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
87.23	S	-69.75	-69.88	1.27	-1.15	-25.00	-44.75
242.43	S	-67.08	-70.84	5.45	-1.68	-25.00	-42.08
427.70	S	-70.69	-74.60	6.07	-2.15	-25.00	-45.69
640.13	S	-66.13	-69.49	6.03	-2.67	-25.00	-41.13
773.99	S	-53.56	-56.52	5.86	-2.90	-25.00	-28.56
945.68	S	-64.57	-66.74	5.50	-3.33	-25.00	-39.57
5135.00	H	-46.09	-48.41	10.36	-8.04	-25.00	-21.09
7702.50	H	-40.38	-42.47	12.07	-9.98	-25.00	-15.38
10270.00	H	-34.68	-35.94	12.95	-11.69	-25.00	-9.68
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 12(The Worst Case)**

ARFCN	:CH 23035 16QAM BW 5	Test Date	:2014-11-18
	RB 1 0		
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:701.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-52.21	-37.78	-13.63	-0.80	-13.00	-39.21
87.23	S	-67.15	-65.12	-0.88	-1.15	-13.00	-54.15
266.68	S	-72.76	-74.26	3.27	-1.77	-13.00	-59.76
473.29	S	-72.42	-74.04	3.90	-2.28	-13.00	-59.42
644.98	S	-65.20	-66.44	3.91	-2.68	-13.00	-52.20
961.20	S	-65.69	-65.01	2.68	-3.35	-13.00	-52.69
1403.00	H	-60.31	-59.61	3.37	-4.08	-13.00	-47.31
2104.50	H	---					
2806.00	H	---					
3507.50	H	---					
4209.00	H	---					
4910.50	H	---					
5612.00	H	---					
6313.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23035 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:701.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-55.73	-42.18	-12.74	-0.80	-13.00	-42.73
90.14	S	-71.16	-69.72	-0.25	-1.20	-13.00	-58.16
426.73	S	-72.63	-74.40	3.92	-2.15	-13.00	-59.63
590.66	S	-70.96	-72.05	3.69	-2.60	-13.00	-57.96
796.30	S	-68.68	-69.48	3.74	-2.94	-13.00	-55.68
947.62	S	-65.89	-65.90	3.35	-3.33	-13.00	-52.89
1403.00	H	-62.35	-61.64	3.37	-4.08	-13.00	-49.35
2104.50	H	---					
2806.00	H	---					
3507.50	H	---					
4209.00	H	---					
4910.50	H	---					
5612.00	H	---					
6313.50	H	---					
7015.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23095 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-52.27	-37.84	-13.63	-0.80	-13.00	-39.27
88.20	S	-67.49	-65.68	-0.65	-1.17	-13.00	-54.49
317.12	S	-71.44	-73.37	3.84	-1.91	-13.00	-58.44
559.62	S	-70.45	-71.78	3.84	-2.52	-13.00	-57.45
642.07	S	-65.79	-67.01	3.89	-2.67	-13.00	-52.79
950.53	S	-66.00	-65.97	3.30	-3.34	-13.00	-53.00
1415.00	H	-58.80	-58.15	3.45	-4.09	-13.00	-45.80
2122.50	H	---					
2830.00	H	---					
3537.50	H	---					
4245.00	H	---					
4952.50	H	---					
5660.00	H	---					
6367.50	H	---					
7075.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23095 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-56.81	-43.27	-12.74	-0.80	-13.00	-43.81
89.17	S	-71.07	-69.46	-0.43	-1.18	-13.00	-58.07
202.66	S	-74.82	-77.10	3.81	-1.52	-13.00	-61.82
417.03	S	-72.61	-74.44	3.96	-2.12	-13.00	-59.61
644.01	S	-70.19	-71.42	3.90	-2.68	-13.00	-57.19
949.56	S	-66.00	-66.00	3.34	-3.34	-13.00	-53.00
1415.00	H	-62.36	-61.71	3.45	-4.09	-13.00	-49.36
2122.50	H	---					
2830.00	H	---					
3537.50	H	---					
4245.00	H	---					
4952.50	H	---					
5660.00	H	---					
6367.50	H	---					
7075.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23155 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-52.25	-37.82	-13.63	-0.80	-13.00	-39.25
90.14	S	-68.04	-66.59	-0.25	-1.20	-13.00	-55.04
284.14	S	-72.67	-74.29	3.44	-1.82	-13.00	-59.67
430.61	S	-72.48	-74.23	3.91	-2.16	-13.00	-59.48
646.92	S	-65.27	-66.51	3.92	-2.68	-13.00	-52.27
954.41	S	-65.03	-64.76	3.07	-3.34	-13.00	-52.03
1427.00	H	-57.93	-57.33	3.52	-4.11	-13.00	-44.93
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23155 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-57.04	-43.28	-12.95	-0.80	-13.00	-44.04
90.14	S	-71.07	-69.63	-0.25	-1.20	-13.00	-58.07
286.08	S	-77.70	-79.28	3.40	-1.83	-13.00	-64.70
427.70	S	-71.86	-73.62	3.92	-2.15	-13.00	-58.86
593.57	S	-70.26	-71.33	3.67	-2.60	-13.00	-57.26
952.47	S	-66.01	-65.86	3.19	-3.34	-13.00	-53.01
1427.00	H	-63.55	-62.95	3.52	-4.11	-13.00	-50.55
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(The Worst Case)**

ARFCN	:CH 23205 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-53.07	-38.64	-13.63	-0.80	-13.00	-40.07
88.20	S	-67.09	-65.27	-0.65	-1.17	-13.00	-54.09
294.81	S	-72.37	-74.04	3.52	-1.85	-13.00	-59.37
585.81	S	-69.26	-70.38	3.71	-2.58	-13.00	-56.26
765.56	S	-85.92	-86.74	3.70	-2.88	-35.00	-50.92
681.84	S	-65.85	-67.03	3.90	-2.72	-13.00	-52.85
793.17	S	-86.38	-87.18	3.73	-2.94	-35.00	-51.38
928.22	S	-65.83	-65.96	3.43	-3.30	-13.00	-52.83
1559.00	H	-63.16	-62.66	3.79	-4.29	-40.00	-23.16
2338.50	H	---					
3118.00	H	---					
3897.50	H	---					
4677.00	H	---					
5456.50	H	---					
6236.00	H	---					
7015.50	H	---					
7795.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23205 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-56.06	-42.51	-12.74	-0.80	-13.00	-43.06
90.14	S	-70.86	-69.41	-0.25	-1.20	-13.00	-57.86
419.94	S	-72.24	-74.06	3.95	-2.13	-13.00	-59.24
599.39	S	-69.84	-70.87	3.65	-2.62	-13.00	-56.84
709.00	S	-69.46	-70.55	3.84	-2.76	-13.00	-56.46
763.20	S	-88.24	-89.07	3.70	-2.88	-35.00	-53.24
800.31	S	-86.32	-87.11	3.74	-2.95	-35.00	-51.32
950.53	S	-66.28	-66.24	3.30	-3.34	-13.00	-53.28
1559.00	H	-65.38	-64.87	3.79	-4.29	-40.00	-25.38
2338.50	H	---					
3118.00	H	---					
3897.50	H	---					
4677.00	H	---					
5456.50	H	---					
6236.00	H	---					
7015.50	H	---					
7795.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23230 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:782 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
30.00	S	-54.08	-38.91	-14.38	-0.80	-13.00	-41.08
88.20	S	-67.31	-65.49	-0.65	-1.17	-13.00	-54.31
291.90	S	-72.45	-74.01	3.40	-1.85	-13.00	-59.45
422.85	S	-71.33	-73.12	3.94	-2.14	-13.00	-58.33
688.63	S	-66.49	-67.65	3.89	-2.73	-13.00	-53.49
763.00	S	-86.90	-87.73	3.70	-2.88	-35.00	-51.90
797.57	S	-85.40	-86.20	3.74	-2.95	-35.00	-50.40
949.56	S	-65.19	-65.20	3.34	-3.34	-13.00	-52.19
1564.00	H	-61.68	-61.15	3.78	-4.30	-40.00	-21.68
2346.00	H	---					
3128.00	H	---					
3910.00	H	---					
4692.00	H	---					
5474.00	H	---					
6256.00	H	---					
7038.00	H	---					
7820.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23230 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:782 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-56.55	-42.79	-12.95	-0.80	-13.00	-43.55
91.11	S	-70.10	-68.58	-0.33	-1.20	-13.00	-57.10
422.85	S	-72.86	-74.65	3.94	-2.14	-13.00	-59.86
539.25	S	-71.87	-73.32	3.90	-2.46	-13.00	-58.87
693.48	S	-69.53	-70.69	3.89	-2.73	-13.00	-56.53
770.07	S	-89.13	-89.95	3.71	-2.89	-35.00	-54.13
795.88	S	-86.43	-87.23	3.74	-2.94	-35.00	-51.43
909.79	S	-65.83	-66.07	3.52	-3.28	-13.00	-52.83
1564.00	H	-65.27	-64.75	3.78	-4.30	-40.00	-25.27
2346.00	H	---					
3128.00	H	---					
3910.00	H	---					
4692.00	H	---					
5474.00	H	---					
6256.00	H	---					
7038.00	H	---					
7820.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23255 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-53.78	-39.11	-13.87	-0.80	-13.00	-40.78
86.26	S	-67.26	-65.03	-1.11	-1.13	-13.00	-54.26
286.08	S	-73.13	-74.71	3.40	-1.83	-13.00	-60.13
642.07	S	-67.17	-68.39	3.89	-2.67	-13.00	-54.17
694.45	S	-65.16	-66.31	3.89	-2.73	-13.00	-52.16
765.99	S	-86.75	-87.57	3.70	-2.88	-35.00	-51.75
799.90	S	-85.96	-86.75	3.74	-2.95	-35.00	-50.96
945.68	S	-65.85	-65.87	3.35	-3.33	-13.00	-52.85
1569.00	H	-62.82	-62.27	3.76	-4.31	-40.00	-22.82
2353.50	H	---					
3138.00	H	---					
3922.50	H	---					
4707.00	H	---					
5491.50	H	---					
6276.00	H	---					
7060.50	H	---					
7845.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 23255 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-54.62	-41.08	-12.74	-0.80	-13.00	-41.62
90.14	S	-70.31	-68.87	-0.25	-1.20	-13.00	-57.31
121.18	S	-72.70	-69.09	-2.32	-1.29	-13.00	-59.70
206.54	S	-73.27	-75.55	3.82	-1.54	-13.00	-60.27
462.62	S	-71.97	-73.60	3.87	-2.25	-13.00	-58.97
651.77	S	-69.23	-70.49	3.94	-2.68	-13.00	-56.23
766.19	S	-88.64	-89.46	3.70	-2.88	-35.00	-53.64
799.55	S	-86.46	-87.25	3.74	-2.95	-35.00	-51.46
1569.00	H	-65.56	-65.02	3.76	-4.31	-40.00	-25.56
2353.50	H	---					
3138.00	H	---					
3922.50	H	---					
4707.00	H	---					
5491.50	H	---					
6276.00	H	---					
7060.50	H	---					
7845.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17(The Worst Case)**

ARFCN	:CH 23755 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-53.76	-39.32	-13.63	-0.80	-13.00	-40.76
87.23	S	-67.19	-65.17	-0.88	-1.15	-13.00	-54.19
318.09	S	-69.94	-71.88	3.85	-1.91	-13.00	-56.94
532.46	S	-71.33	-72.80	3.91	-2.44	-13.00	-58.33
641.10	S	-65.42	-66.63	3.89	-2.67	-13.00	-52.42
940.83	S	-66.43	-66.49	3.38	-3.32	-13.00	-53.43
1413.00	H	-57.78	-57.12	3.43	-4.09	-13.00	-44.78
2119.50	H	---					
2826.00	H	---					
3532.50	H	---					
4239.00	H	---					
4945.50	H	---					
5652.00	H	---					
6358.50	H	---					
7065.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23755 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-55.67	-42.12	-12.74	-0.80	-13.00	-42.67
90.14	S	-70.74	-69.29	-0.25	-1.20	-13.00	-57.74
190.05	S	-75.29	-76.66	2.86	-1.49	-13.00	-62.29
424.79	S	-72.34	-74.12	3.93	-2.15	-13.00	-59.34
658.56	S	-69.93	-71.17	3.93	-2.69	-13.00	-56.93
947.62	S	-66.29	-66.30	3.35	-3.33	-13.00	-53.29
1413.00	H	-61.79	-61.13	3.43	-4.09	-13.00	-48.79
2119.50	H	---					
2826.00	H	---					
3532.50	H	---					
4239.00	H	---					
4945.50	H	---					
5652.00	H	---					
6358.50	H	---					
7065.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
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ARFCN	:CH 23790 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-52.47	-38.04	-13.63	-0.80	-13.00	-39.47
90.14	S	-68.00	-66.55	-0.25	-1.20	-13.00	-55.00
295.78	S	-72.84	-74.54	3.56	-1.86	-13.00	-59.84
481.05	S	-72.21	-73.83	3.92	-2.30	-13.00	-59.21
645.95	S	-66.78	-68.02	3.92	-2.68	-13.00	-53.78
951.50	S	-65.51	-65.42	3.25	-3.34	-13.00	-52.51
1420.00	H	-59.88	-59.26	3.48	-4.10	-13.00	-46.88
2130.00	H	---					
2840.00	H	---					
3550.00	H	---					
4260.00	H	---					
4970.00	H	---					
5680.00	H	---					
6390.00	H	---					
7100.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23790 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-56.42	-42.87	-12.74	-0.80	-13.00	-43.42
89.17	S	-70.86	-69.25	-0.43	-1.18	-13.00	-57.86
474.26	S	-71.39	-73.00	3.90	-2.28	-13.00	-58.39
581.93	S	-71.68	-72.83	3.73	-2.57	-13.00	-58.68
647.89	S	-69.96	-71.21	3.93	-2.68	-13.00	-56.96
951.50	S	-66.07	-65.97	3.25	-3.34	-13.00	-53.07
1420.00	H	-61.85	-61.23	3.48	-4.10	-13.00	-48.85
2130.00	H	---					
2840.00	H	---					
3550.00	H	---					
4260.00	H	---					
4970.00	H	---					
5680.00	H	---					
6390.00	H	---					
7100.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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ARFCN	:CH 23825 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-53.36	-38.93	-13.63	-0.80	-13.00	-40.36
91.11	S	-67.74	-66.22	-0.33	-1.20	-13.00	-54.74
114.39	S	-69.12	-65.54	-2.31	-1.26	-13.00	-56.12
557.68	S	-71.20	-72.54	3.85	-2.51	-13.00	-58.20
643.04	S	-66.06	-67.28	3.90	-2.67	-13.00	-53.06
899.12	S	-64.92	-65.23	3.57	-3.26	-13.00	-51.92
1427.00	H	-61.27	-60.67	3.52	-4.11	-13.00	-48.27
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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ARFCN	:CH 23825 16QAM BW 5 RB 1 24	Test Date	:2014-11-18
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-58.18	-44.43	-12.95	-0.80	-13.00	-45.18
115.36	S	-67.53	-63.95	-2.32	-1.26	-13.00	-54.53
429.64	S	-71.73	-73.49	3.91	-2.16	-13.00	-58.73
598.42	S	-69.23	-70.26	3.65	-2.62	-13.00	-56.23
647.89	S	-68.77	-70.02	3.93	-2.68	-13.00	-55.77
958.29	S	-66.40	-65.90	2.85	-3.35	-13.00	-53.40
1427.00	H	-63.27	-62.67	3.52	-4.11	-13.00	-50.27
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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## 11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

### 11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

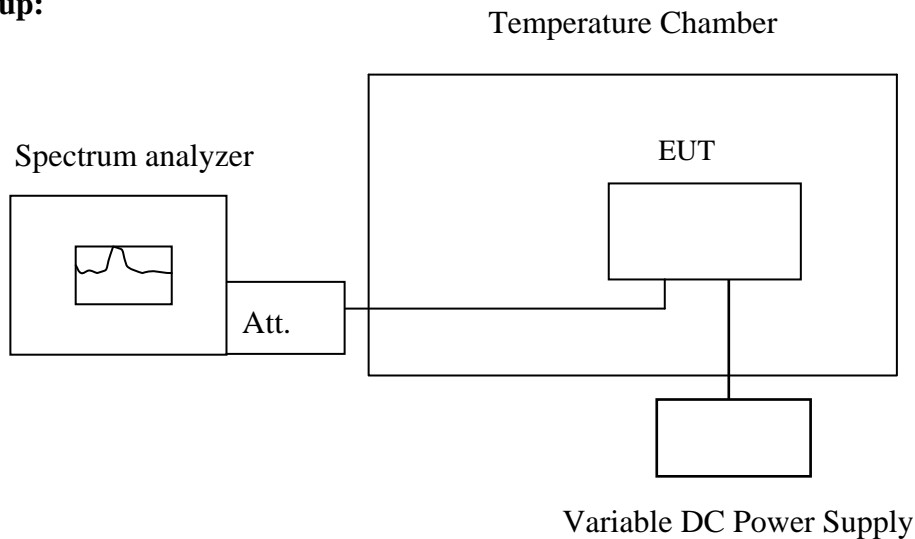
+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

+/-2.5ppm for 2500MHz band

### 11.2. Test Set-up:



**Note:** Measurement setup for testing on Antenna connector

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### 11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

### 11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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**11.5. Measurement Result:**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	836599978	-5	2091
3.8	40	836599987	4	2091
3.8	30	836599989	6	2091
3.8	20	836599983	0	2091
3.8	10	836599985	2	2091
3.8	0	836599982	-1	2091
3.8	-10	836599976	-7	2091
3.8	-20	836599973	-10	2091
3.8	-30	836599980	-3	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	1879999976	-15	4700
3.8	40	1879999978	-13	4700
3.8	30	1879999989	-2	4700
3.8	20	1879999991	0	4700
3.8	10	1879999985	-6	4700
3.8	0	1879999982	-9	4700
3.8	-10	1879999984	-7	4700
3.8	-20	1879999974	-17	4700
3.8	-30	1879999977	-14	4700

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Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	1879999981	-27	4700
3.8	40	1879999995	-13	4700
3.8	30	1879999985	-23	4700
3.8	20	1880000008	0	4700
3.8	10	1879999978	-30	4700
3.8	0	1879999977	-31	4700
3.8	-10	1879999972	-36	4700
3.8	-20	1879999965	-43	4700
3.8	-30	1879999969	-39	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	173259984	-4	4331
3.8	40	173259991	3	4331
3.8	30	173259989	1	4331
3.8	20	173259988	0	4331
3.8	10	173259985	-3	4331
3.8	0	173259978	-10	4331
3.8	-10	173259975	-13	4331
3.8	-20	173259982	-6	4331
3.8	-30	173259969	-19	4331

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Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	836599982	-8	2091
3.8	40	836599989	-1	2091
3.8	30	836599994	4	2091
3.8	20	836599990	0	2091
3.8	10	836600011	21	2091
3.8	0	836600015	25	2091
3.8	-10	836600023	33	2091
3.8	-20	836600025	35	2091
3.8	-30	836600019	29	2091

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 1.4M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1879.999989	-15.00	4700
3.8	-20	1879.999997	-7.00	4700
3.8	-10	1879.999997	-7.00	4700
3.8	0	1880.000002	-2.00	4700
3.8	10	1880.000001	-3.00	4700
3.8	20	1880.000004	0.00	4700
3.8	30	1880.000003	-1.00	4700
3.8	40	1880.000002	-2.00	4700
3.8	50	1879.999999	-5.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 1.4M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1880.000006	1.00	4700
3.8	-20	1880.000003	-2.00	4700
3.8	-10	1879.999997	-8.00	4700
3.8	0	1880.000002	-3.00	4700
3.8	10	1880.000002	-3.00	4700
3.8	20	1880.000005	0.00	4700
3.8	30	1879.999998	-7.00	4700
3.8	40	1880.000003	-2.00	4700
3.8	50	1880.000001	-4.00	4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 3M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1880.000006	4.00	4700
3.8	-20	1880.000003	1.00	4700
3.8	-10	1880.000001	-1.00	4700
3.8	0	1880.000002	0.00	4700
3.8	10	1880.000005	3.00	4700
3.8	20	1880.000002	0.00	4700
3.8	30	1879.999996	-6.00	4700
3.8	40	1880.000002	0.00	4700
3.8	50	1879.999998	-4.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 3M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1880.000004	1.00	4700
3.8	-20	1880.000002	-1.00	4700
3.8	-10	1880.000001	-2.00	4700
3.8	0	1879.999998	-5.00	4700
3.8	10	1879.999997	-6.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000003	0.00	4700
3.8	40	1880.000006	3.00	4700
3.8	50	1879.999997	-6.00	4700

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 5M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1880.000005	2.00	4700
3.8	-20	1880.000003	0.00	4700
3.8	-10	1879.999998	-5.00	4700
3.8	0	1879.999994	-9.00	4700
3.8	10	1880.000002	-1.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000004	1.00	4700
3.8	40	1879.999998	-5.00	4700
3.8	50	1880.000005	2.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 5M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1880.000008	5.00	4700
3.8	-20	1879.999996	-7.00	4700
3.8	-10	1879.999997	-6.00	4700
3.8	0	1879.999997	-6.00	4700
3.8	10	1880.000005	2.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1879.999995	-8.00	4700
3.8	40	1880.000001	-2.00	4700
3.8	50	1880.000003	0.00	4700

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 10M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1880.000005	2.00	4700
3.8	-20	1880.000006	3.00	4700
3.8	-10	1880.000003	0.00	4700
3.8	0	1879.999993	-10.00	4700
3.8	10	1879.999998	-5.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000004	1.00	4700
3.8	40	1880.000002	-1.00	4700
3.8	50	1879.999996	-7.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 10M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1879.999996	-6.00	4700
3.8	-20	1879.999995	-7.00	4700
3.8	-10	1879.999998	-4.00	4700
3.8	0	1880.000005	3.00	4700
3.8	10	1880.000003	1.00	4700
3.8	20	1880.000002	0.00	4700
3.8	30	1880.000004	2.00	4700
3.8	40	1879.999995	-7.00	4700
3.8	50	1879.999995	-7.00	4700

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 15M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1879.999996	-7.00	4700
3.8	-20	1879.999994	-9.00	4700
3.8	-10	1879.999995	-8.00	4700
3.8	0	1880.000002	-1.00	4700
3.8	10	1880.000000	-3.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000004	1.00	4700
3.8	40	1880.000002	-1.00	4700
3.8	50	1880.000002	-1.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 15M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1880.000005	2.00	4700
3.8	-20	1880.000003	0.00	4700
3.8	-10	1880.000006	3.00	4700
3.8	0	1879.999996	-7.00	4700
3.8	10	1879.999995	-8.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000003	0.00	4700
3.8	40	1880.000005	2.00	4700
3.8	50	1879.999997	-6.00	4700

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 20M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1879.999997	-7.00	4700
3.8	-20	1879.999994	-10.00	4700
3.8	-10	1880.000009	5.00	4700
3.8	0	1880.000005	1.00	4700
3.8	10	1880.000003	-1.00	4700
3.8	20	1880.000004	0.00	4700
3.8	30	1879.999997	-7.00	4700
3.8	40	1880.000004	0.00	4700
3.8	50	1879.999997	-7.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 20M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1880.000003	0.00	4700
3.8	-20	1880.000005	2.00	4700
3.8	-10	1880.000002	-1.00	4700
3.8	0	1879.999997	-6.00	4700
3.8	10	1879.999997	-6.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000004	1.00	4700
3.8	40	1880.000005	2.00	4700
3.8	50	1879.999999	-4.00	4700

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 1.4M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.500011	18.00	4331
3.8	-20	1732.500005	12.00	4331
3.8	-10	1732.499994	1.00	4331
3.8	0	1732.499992	-1.00	4331
3.8	10	1732.500001	8.00	4331
3.8	20	1732.499993	0.00	4331
3.8	30	1732.499996	3.00	4331
3.8	40	1732.499994	1.00	4331
3.8	50	1732.499996	3.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 1.4M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.500008	13.00	4331
3.8	-20	1732.500009	14.00	4331
3.8	-10	1732.500001	6.00	4331
3.8	0	1732.499998	3.00	4331
3.8	10	1732.499993	-2.00	4331
3.8	20	1732.499995	0.00	4331
3.8	30	1732.500001	6.00	4331
3.8	40	1732.499999	4.00	4331
3.8	50	1732.500005	10.00	4331

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 3M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.500004	2.00	4331
3.8	-20	1732.500008	6.00	4331
3.8	-10	1732.500006	4.00	4331
3.8	0	1732.500003	1.00	4331
3.8	10	1732.500003	1.00	4331
3.8	20	1732.500002	0.00	4331
3.8	30	1732.500007	5.00	4331
3.8	40	1732.500005	3.00	4331
3.8	50	1732.499999	-3.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 3M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499996	4.00	4331
3.8	-20	1732.500001	9.00	4331
3.8	-10	1732.499995	3.00	4331
3.8	0	1732.499999	7.00	4331
3.8	10	1732.500001	9.00	4331
3.8	20	1732.499992	0.00	4331
3.8	30	1732.499996	4.00	4331
3.8	40	1732.499998	6.00	4331
3.8	50	1732.500003	11.00	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 5M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499994	-3.00	4331
3.8	-20	1732.499998	1.00	4331
3.8	-10	1732.500001	4.00	4331
3.8	0	1732.499992	-5.00	4331
3.8	10	1732.499998	1.00	4331
3.8	20	1732.499997	0.00	4331
3.8	30	1732.499996	-1.00	4331
3.8	40	1732.499995	-2.00	4331
3.8	50	1732.499996	-1.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 5M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499993	-3.00	4331
3.8	-20	1732.499998	2.00	4331
3.8	-10	1732.499999	3.00	4331
3.8	0	1732.499997	1.00	4331
3.8	10	1732.500003	7.00	4331
3.8	20	1732.499996	0.00	4331
3.8	30	1732.499991	-5.00	4331
3.8	40	1732.499998	2.00	4331
3.8	50	1732.499996	0.00	4331

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f (886-2) 2298-0488

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 10M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499997	3.00	4331
3.8	-20	1732.499993	-1.00	4331
3.8	-10	1732.499991	-3.00	4331
3.8	0	1732.499995	1.00	4331
3.8	10	1732.499999	5.00	4331
3.8	20	1732.499994	0.00	4331
3.8	30	1732.499992	-2.00	4331
3.8	40	1732.499997	3.00	4331
3.8	50	1732.499991	-3.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 10M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499997	5.00	4331
3.8	-20	1732.499995	3.00	4331
3.8	-10	1732.499996	4.00	4331
3.8	0	1732.499991	-1.00	4331
3.8	10	1732.499994	2.00	4331
3.8	20	1732.499992	0.00	4331
3.8	30	1732.499994	2.00	4331
3.8	40	1732.499993	1.00	4331
3.8	50	1732.499999	7.00	4331

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 15M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499995	1.00	4331
3.8	-20	1732.499996	2.00	4331
3.8	-10	1732.499997	3.00	4331
3.8	0	1732.499994	0.00	4331
3.8	10	1732.499998	4.00	4331
3.8	20	1732.499994	0.00	4331
3.8	30	1732.499996	2.00	4331
3.8	40	1732.499999	5.00	4331
3.8	50	1732.499992	-2.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 15M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499995	-2.00	4331
3.8	-20	1732.499996	-1.00	4331
3.8	-10	1732.499993	-4.00	4331
3.8	0	1732.499994	-3.00	4331
3.8	10	1732.499999	2.00	4331
3.8	20	1732.499997	0.00	4331
3.8	30	1732.499993	-4.00	4331
3.8	40	1732.499995	-2.00	4331
3.8	50	1732.499996	-1.00	4331

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f (886-2) 2298-0488

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499996	-1.00	4331
3.8	-20	1732.499997	0.00	4331
3.8	-10	1732.499993	-4.00	4331
3.8	0	1732.499998	1.00	4331
3.8	10	1732.499995	-2.00	4331
3.8	20	1732.499997	0.00	4331
3.8	30	1732.499996	-1.00	4331
3.8	40	1732.499994	-3.00	4331
3.8	50	1732.499996	-1.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 20M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1732.499993	5.00	4331
3.8	-20	1732.499996	8.00	4331
3.8	-10	1732.499997	9.00	4331
3.8	0	1732.499996	8.00	4331
3.8	10	1732.499994	6.00	4331
3.8	20	1732.499988	0.00	4331
3.8	30	1732.499994	6.00	4331
3.8	40	1732.499993	5.00	4331
3.8	50	1732.499999	11.00	4331

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B5 Mid Channel 836.5 MHz 1.4M QPSK CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.499994	0.00	2091
3.8	-20	836.499996	2.00	2091
3.8	-10	836.499992	-2.00	2091
3.8	0	836.499991	-3.00	2091
3.8	10	836.499990	-4.00	2091
3.8	20	836.499994	0.00	2091
3.8	30	836.499995	1.00	2091
3.8	40	836.499998	4.00	2091
3.8	50	836.499995	1.00	2091

Reference Frequency: LTE B5 Mid Channel 836.5 MHz 1.4M 16QAM CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.499991	-12.00	2091
3.8	-20	836.499994	-9.00	2091
3.8	-10	836.499999	-4.00	2091
3.8	0	836.499995	-8.00	2091
3.8	10	836.499998	-5.00	2091
3.8	20	836.500003	0.00	2091
3.8	30	836.500004	1.00	2091
3.8	40	836.500006	3.00	2091
3.8	50	836.500008	5.00	2091

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f (886-2) 2298-0488

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Reference Frequency: LTE B5 Mid Channel 836.5 MHz 3M QPSK CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.499994	-5.00	2091
3.8	-20	836.499993	-6.00	2091
3.8	-10	836.499994	-5.00	2091
3.8	0	836.499999	0.00	2091
3.8	10	836.499991	-8.00	2091
3.8	20	836.499999	0.00	2091
3.8	30	836.499995	-4.00	2091
3.8	40	836.499997	-2.00	2091
3.8	50	836.499995	-4.00	2091

Reference Frequency: LTE B5 Mid Channel 836.5 MHz 3M 16QAM CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.499992	-1.00	2091
3.8	-20	836.499996	3.00	2091
3.8	-10	836.499994	1.00	2091
3.8	0	836.499992	-1.00	2091
3.8	10	836.499998	5.00	2091
3.8	20	836.499993	0.00	2091
3.8	30	836.499994	1.00	2091
3.8	40	836.499998	5.00	2091
3.8	50	836.499997	4.00	2091

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f (886-2) 2298-0488

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Reference Frequency: LTE B5 Mid Channel 836.5 MHz 5M QPSK CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.499996	1.00	2091
3.8	-20	836.499992	-3.00	2091
3.8	-10	836.499997	2.00	2091
3.8	0	836.499999	4.00	2091
3.8	10	836.499991	-4.00	2091
3.8	20	836.499995	0.00	2091
3.8	30	836.499993	-2.00	2091
3.8	40	836.499994	-1.00	2091
3.8	50	836.499992	-3.00	2091

Reference Frequency: LTE B5 Mid Channel 836.5 MHz 5M 16QAM CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.499994	-4.00	2091
3.8	-20	836.499993	-5.00	2091
3.8	-10	836.499999	1.00	2091
3.8	0	836.499996	-2.00	2091
3.8	10	836.499991	-7.00	2091
3.8	20	836.499998	0.00	2091
3.8	30	836.499992	-6.00	2091
3.8	40	836.499996	-2.00	2091
3.8	50	836.499994	-4.00	2091

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f (886-2) 2298-0488

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Reference Frequency: LTE B5 Mid Channel 836.5 MHz 10M QPSK CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.499992	0.00	2091
3.8	-20	836.499996	4.00	2091
3.8	-10	836.499994	2.00	2091
3.8	0	836.499994	2.00	2091
3.8	10	836.499997	5.00	2091
3.8	20	836.499992	0.00	2091
3.8	30	836.499999	7.00	2091
3.8	40	836.499998	6.00	2091
3.8	50	836.499993	1.00	2091

Reference Frequency: LTE B5 Mid Channel 836.5 MHz 10M 16QAM CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.499992	-1.00	2091
3.8	-20	836.499996	3.00	2091
3.8	-10	836.499999	6.00	2091
3.8	0	836.500009	16.00	2091
3.8	10	836.499994	1.00	2091
3.8	20	836.499993	0.00	2091
3.8	30	836.499995	2.00	2091
3.8	40	836.499998	5.00	2091
3.8	50	836.499994	1.00	2091

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f (886-2) 2298-0488

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Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 5M QPSK CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	2535.000013	10.00	6338
3.8	-20	2535.000005	2.00	6338
3.8	-10	2535.000006	3.00	6338
3.8	0	2535.000005	2.00	6338
3.8	10	2534.999999	-4.00	6338
3.8	20	2535.000003	0.00	6338
3.8	30	2535.000002	-1.00	6338
3.8	40	2535.000004	1.00	6338
3.8	50	2535.000005	2.00	6338

Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 5M 16QAM CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	2534.999986	-16.00	6338
3.8	-20	2535.000007	5.00	6338
3.8	-10	2535.000004	2.00	6338
3.8	0	2535.000005	3.00	6338
3.8	10	2535.000003	1.00	6338
3.8	20	2535.000002	0.00	6338
3.8	30	2534.999998	-4.00	6338
3.8	40	2535.000001	-1.00	6338
3.8	50	2535.000004	2.00	6338

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f (886-2) 2298-0488

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Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 10M QPSK CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	2535.000013	10.00	6338
3.8	-20	2535.000010	7.00	6338
3.8	-10	2535.000005	2.00	6338
3.8	0	2535.000003	0.00	6338
3.8	10	2534.999999	-4.00	6338
3.8	20	2535.000003	0.00	6338
3.8	30	2535.000004	1.00	6338
3.8	40	2534.999997	-6.00	6338
3.8	50	2535.000003	0.00	6338

Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 10M 16QAM CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	2535.000006	3.00	6338
3.8	-20	2535.000004	1.00	6338
3.8	-10	2535.000004	1.00	6338
3.8	0	2535.000005	2.00	6338
3.8	10	2535.000003	0.00	6338
3.8	20	2535.000003	0.00	6338
3.8	30	2534.999997	-6.00	6338
3.8	40	2534.999998	-5.00	6338
3.8	50	2535.000002	-1.00	6338

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 15M QPSK CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	2535.000010	5.00	6338
3.8	-20	2535.000006	1.00	6338
3.8	-10	2535.000003	-2.00	6338
3.8	0	2535.000007	2.00	6338
3.8	10	2535.000002	-3.00	6338
3.8	20	2535.000005	0.00	6338
3.8	30	2534.999999	-6.00	6338
3.8	40	2535.000004	-1.00	6338
3.8	50	2535.000002	-3.00	6338

Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 15M 16QAM CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	2535.000014	11.00	6338
3.8	-20	2535.000002	-1.00	6338
3.8	-10	2534.999999	-4.00	6338
3.8	0	2535.000003	0.00	6338
3.8	10	2535.000004	1.00	6338
3.8	20	2535.000003	0.00	6338
3.8	30	2535.000005	2.00	6338
3.8	40	2534.999999	-4.00	6338
3.8	50	2535.000003	0.00	6338

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 20M QPSK CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	2535.000005	3.00	6338
3.8	-20	2535.000003	1.00	6338
3.8	-10	2535.000002	0.00	6338
3.8	0	2534.999997	-5.00	6338
3.8	10	2534.999997	-5.00	6338
3.8	20	2535.000002	0.00	6338
3.8	30	2534.999998	-4.00	6338
3.8	40	2535.000002	0.00	6338
3.8	50	2535.000002	0.00	6338

Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 20M 16QAM CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	2534.999989	-13.00	6338
3.8	-20	2534.999991	-11.00	6338
3.8	-10	2534.999996	-6.00	6338
3.8	0	2534.999998	-4.00	6338
3.8	10	2534.999999	-3.00	6338
3.8	20	2535.000002	0.00	6338
3.8	30	2535.000005	3.00	6338
3.8	40	2535.000003	1.00	6338
3.8	50	2535.000004	2.00	6338

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B12 Mid Channel 707.5 MHz 1.4M QPSK CH 23095				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	707.500038	44.00	1769
3.8	-20	707.500034	40.00	1769
3.8	-10	707.500028	34.00	1769
3.8	0	707.500022	28.00	1769
3.8	10	707.500011	17.00	1769
3.8	20	707.499994	0.00	1769
3.8	30	707.499992	-2.00	1769
3.8	40	707.499989	-5.00	1769
3.8	50	707.499981	-13.00	1769

Reference Frequency: LTE B12 Mid Channel 707.5 MHz 1.4M 16QAM CH 23095				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	707.500035	38.00	1769
3.8	-20	707.500033	36.00	1769
3.8	-10	707.500024	27.00	1769
3.8	0	707.500016	19.00	1769
3.8	10	707.500008	11.00	1769
3.8	20	707.499997	0.00	1769
3.8	30	707.499994	-3.00	1769
3.8	40	707.499989	-8.00	1769
3.8	50	707.499988	-9.00	1769

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f (886-2) 2298-0488

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Reference Frequency: LTE B12 Mid Channel 707.5 MHz 3M QPSK CH 23095				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	707.500033	37.00	1769
3.8	-20	707.500030	34.00	1769
3.8	-10	707.500019	23.00	1769
3.8	0	707.500015	19.00	1769
3.8	10	707.500011	15.00	1769
3.8	20	707.499996	0.00	1769
3.8	30	707.499996	0.00	1769
3.8	40	707.499994	-2.00	1769
3.8	50	707.499992	-4.00	1769

Reference Frequency: LTE B12 Mid Channel 707.5 MHz 3M 16QAM CH 23095				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	707.500028	34.00	1769
3.8	-20	707.500025	31.00	1769
3.8	-10	707.500019	25.00	1769
3.8	0	707.500014	20.00	1769
3.8	10	707.500005	11.00	1769
3.8	20	707.499994	0.00	1769
3.8	30	707.499993	-1.00	1769
3.8	40	707.499990	-4.00	1769
3.8	50	707.499989	-5.00	1769

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency: LTE B12 Mid Channel 707.5 MHz 5M QPSK CH 23095				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	707.500026	31.00	1769
3.8	-20	707.500021	26.00	1769
3.8	-10	707.500018	23.00	1769
3.8	0	707.500013	18.00	1769
3.8	10	707.500005	10.00	1769
3.8	20	707.499995	0.00	1769
3.8	30	707.499994	-1.00	1769
3.8	40	707.499992	-3.00	1769
3.8	50	707.499987	-8.00	1769

Reference Frequency: LTE B12 Mid Channel 707.5 MHz 5M 16QAM CH 23095				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	707.500023	26.00	1769
3.8	-20	707.500019	22.00	1769
3.8	-10	707.500014	17.00	1769
3.8	0	707.500010	13.00	1769
3.8	10	707.500005	8.00	1769
3.8	20	707.499997	0.00	1769
3.8	30	707.499994	-3.00	1769
3.8	40	707.499994	-3.00	1769
3.8	50	707.499990	-7.00	1769

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	707.500028	34.00	1769	
3.8	-20	707.500018	24.00	1769	
3.8	-10	707.500013	19.00	1769	
3.8	0	707.500015	21.00	1769	
3.8	10	707.500001	7.00	1769	
3.8	20	707.499994	0.00	1769	
3.8	30	707.499993	-1.00	1769	
3.8	40	707.499989	-5.00	1769	
3.8	50	707.499985	-9.00	1769	

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M 16QAM CH 23095
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	707.500022	24.00	1769	
3.8	-20	707.500021	23.00	1769	
3.8	-10	707.500014	16.00	1769	
3.8	0	707.500010	12.00	1769	
3.8	10	707.500003	5.00	1769	
3.8	20	707.499998	0.00	1769	
3.8	30	707.499994	-4.00	1769	
3.8	40	707.499990	-8.00	1769	
3.8	50	707.499989	-9.00	1769	

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f (886-2) 2298-0488

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Reference Frequency: LTE B13 Mid Channel 782.0 MHz 5M QPSK CH 23230				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	782.000018	15.00	1955
3.8	-20	782.000012	9.00	1955
3.8	-10	782.000011	8.00	1955
3.8	0	782.000009	6.00	1955
3.8	10	782.000006	3.00	1955
3.8	20	782.000003	0.00	1955
3.8	30	781.999995	-8.00	1955
3.8	40	781.999989	-14.00	1955
3.8	50	781.999989	-14.00	1955

Reference Frequency: LTE B13 Mid Channel 782.0 MHz 5M 16QAM CH 23230				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	782.000020	17.00	1955
3.8	-20	782.000018	15.00	1955
3.8	-10	782.000013	10.00	1955
3.8	0	782.000008	5.00	1955
3.8	10	782.000006	3.00	1955
3.8	20	782.000003	0.00	1955
3.8	30	781.999997	-6.00	1955
3.8	40	781.999991	-12.00	1955
3.8	50	781.999988	-15.00	1955

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f (886-2) 2298-0488

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Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	782.000022	16.00	1955	
3.8	-20	782.000016	10.00	1955	
3.8	-10	782.000015	9.00	1955	
3.8	0	782.000011	5.00	1955	
3.8	10	782.000010	4.00	1955	
3.8	20	782.000006	0.00	1955	
3.8	30	782.000002	-4.00	1955	
3.8	40	781.999994	-12.00	1955	
3.8	50	781.999989	-17.00	1955	

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M 16QAM CH 23230
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	782.000019	17.00	1955	
3.8	-20	782.000015	13.00	1955	
3.8	-10	782.000011	9.00	1955	
3.8	0	782.000008	6.00	1955	
3.8	10	782.000005	3.00	1955	
3.8	20	782.000002	0.00	1955	
3.8	30	781.999997	-5.00	1955	
3.8	40	781.999994	-8.00	1955	
3.8	50	781.999990	-12.00	1955	

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Reference Frequency: LTE B17 Mid Channel 710.0 MHz 5M QPSK CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	710.000006	8.00	1775
3.8	-20	710.000004	6.00	1775
3.8	-10	710.000005	7.00	1775
3.8	0	710.000003	5.00	1775
3.8	10	710.000003	5.00	1775
3.8	20	709.999998	0.00	1775
3.8	30	709.999996	-2.00	1775
3.8	40	709.999997	-1.00	1775
3.8	50	709.999994	-4.00	1775

Reference Frequency: LTE B17 Mid Channel 710.0 MHz 5M 16QAM CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	710.000006	11.00	1775
3.8	-20	710.000003	8.00	1775
3.8	-10	710.000002	7.00	1775
3.8	0	710.000004	9.00	1775
3.8	10	709.999997	2.00	1775
3.8	20	709.999995	0.00	1775
3.8	30	709.999990	-5.00	1775
3.8	40	709.999991	-4.00	1775
3.8	50	709.999989	-6.00	1775

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	710.000009	13.00	1775	
3.8	-20	710.000008	12.00	1775	
3.8	-10	710.000011	15.00	1775	
3.8	0	710.000005	9.00	1775	
3.8	10	710.000003	7.00	1775	
3.8	20	709.999996	0.00	1775	
3.8	30	709.999998	2.00	1775	
3.8	40	709.999994	-2.00	1775	
3.8	50	709.999993	-3.00	1775	

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M 16QAM CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	710.000012	12.00	1775	
3.8	-20	710.000009	9.00	1775	
3.8	-10	710.000010	10.00	1775	
3.8	0	710.000006	6.00	1775	
3.8	10	710.000007	7.00	1775	
3.8	20	710.000000	0.00	1775	
3.8	30	709.999994	-6.00	1775	
3.8	40	709.999995	-5.00	1775	
3.8	50	709.999992	-8.00	1775	

**Note: The battery is rated 3.8V dc.**

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## 12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

### 12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

+/-2.5ppm for 2500MHz band

### 12.2. Test Set-up:

Refer to section 11.2 in this report

### 12.3. Measurement Procedure:

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

### 12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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**12.5. Measurement Result:**

**GPRS850**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.35	25	836599989	6	2091
3.8	25	836599983	0	2091
3.4	25	836599979	-4	2091
2.9 (End point)	25	836599928	-55	2091

**GPRS1900**

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.35	25	1879999989	-2	4700
3.8	25	1879999991	0	4700
3.4	25	1879999993	2	4700
2.9 (End point)	25	1879999932	-59	4700

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**WCDMA II**

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.35	25	1880000006	-2	4700
3.8	25	1880000008	0	4700
3.4	25	1879999986	-22	4700
2.9 (End point)	25	1879999965	-43	4700

**WCDMA IV**

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.35	25	173260008	20	4331
3.8	25	173259988	0	4331
3.4	25	173259993	5	4331
2.9 (End point)	25	173259929	-59	4331

**WCDMA V**

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.35	25	836600006	16	2091
3.8	25	836599990	0	2091
3.4	25	836600007	17	2091
2.9 (End point)	25	836599948	-42	2091

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1880.000005	2.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000002	-1.00	4700	
2.9 (End Point)	25	1880.000043	40.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1880.000002	-1.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000005	2.00	4700	
2.9 (End Point)	25	1880.000032	29.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1880.000003	-1.00	4700	
3.8	25	1880.000004	0.00	4700	
3.40	25	1880.000004	0.00	4700	
2.9 (End Point)	25	1880.000051	47.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1879.999996	-7.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000002	-1.00	4700	
2.9 (End Point)	25	1880.000047	44.00	4700	

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Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1879.999998	-6.00	4700	
3.8	25	1880.000004	0.00	4700	
3.40	25	1880.000002	-2.00	4700	
2.9 (End Point)	25	1880.000044	40.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1879.999995	-7.00	4700	
3.8	25	1880.000002	0.00	4700	
3.40	25	1880.000002	0.00	4700	
2.9 (End Point)	25	1880.000033	31.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1880.000004	1.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000005	2.00	4700	
2.9 (End Point)	25	1880.000034	31.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1879.999997	-6.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000002	-1.00	4700	
2.9 (End Point)	25	1880.000031	28.00	4700	

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f (886-2) 2298-0488

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1879.999999	-3.00	4700	
3.8	25	1880.000002	0.00	4700	
3.40	25	1880.000003	1.00	4700	
2.9 (End Point)	25	1880.000024	22.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1880.000003	-1.00	4700	
3.8	25	1880.000004	0.00	4700	
3.40	25	1880.000002	-2.00	4700	
2.9 (End Point)	25	1880.000031	27.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1880.000002	-1.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000004	1.00	4700	
2.9 (End Point)	25	1880.000040	37.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1879.999997	-3.00	4700	
3.8	25	1880.000000	0.00	4700	
3.40	25	1880.000003	3.00	4700	
2.9 (End Point)	25	1880.000030	30.00	4700	

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f (886-2) 2298-0488

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	1.4M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.25	25	1732.499995	-3.00	4331	
3.7	25	1732.499998	0.00	4331	
3.15	25	1732.499996	-2.00	4331	
2.9 (End Point)	25	1732.499968	-30.00	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	1.4M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1732.499994	-1.00	4331	
3.8	25	1732.499995	0.00	4331	
3.40	25	1732.499998	3.00	4331	
2.9 (End Point)	25	1732.499969	-26.00	4331	

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	3M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.25	25	1732.499992	-3.00	4331	
3.7	25	1732.499995	0.00	4331	
3.15	25	1732.499994	-1.00	4331	
2.9 (End Point)	25	1732.499960	-35.00	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	3M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1732.499993	-3.00	4331	
3.8	25	1732.499996	0.00	4331	
3.40	25	1732.499991	-5.00	4331	
2.9 (End Point)	25	1732.499954	-42.00	4331	

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	5M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.25	25	1732.499996	3.00	4331	
3.7	25	1732.499993	0.00	4331	
3.15	25	1732.499995	2.00	4331	
2.9 (End Point)	25	1732.499991	-2.00	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	5M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1732.499999	4.00	4331	
3.8	25	1732.499995	0.00	4331	
3.40	25	1732.499994	-1.00	4331	
2.9 (End Point)	25	1732.499989	-6.00	4331	

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Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.25	25	1732.499997	3.00	4331	
3.7	25	1732.499994	0.00	4331	
3.15	25	1732.499999	5.00	4331	
2.9 (End Point)	25	1732.499996	2.00	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	10M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1732.499996	3.00	4331	
3.8	25	1732.499993	0.00	4331	
3.40	25	1732.499994	1.00	4331	
2.9 (End Point)	25	1732.499988	-5.00	4331	

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Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.25	25	1732.499995	1.00	4331	
3.7	25	1732.499994	0.00	4331	
3.15	25	1732.499992	-2.00	4331	
2.9 (End Point)	25	1732.499993	-1.00	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	15M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1732.499996	3.00	4331	
3.8	25	1732.499993	0.00	4331	
3.40	25	1732.499991	-2.00	4331	
2.9 (End Point)	25	1732.499992	-1.00	4331	

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Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.25	25	1732.499998	1.00	4331	
3.7	25	1732.499997	0.00	4331	
3.15	25	1732.499991	-6.00	4331	
2.9 (End Point)	25	1732.499989	-8.00	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1732.499993	-5.00	4331	
3.8	25	1732.499998	0.00	4331	
3.40	25	1732.499995	-3.00	4331	
2.9 (End Point)	25	1732.499991	-7.00	4331	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499994	-2.00	2091	
3.8	25	836.499996	0.00	2091	
3.40	25	836.499998	2.00	2091	
2.9 (End Point)	25	836.499977	-19.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499993	-5.00	2091	
3.8	25	836.499998	0.00	2091	
3.40	25	836.499999	1.00	2091	
2.9 (End Point)	25	836.499971	-27.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499992	-1.00	2091	
3.8	25	836.499993	0.00	2091	
3.40	25	836.499992	-1.00	2091	
2.9 (End Point)	25	836.499974	-19.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499994	-2.00	2091	
3.8	25	836.499996	0.00	2091	
3.40	25	836.499998	2.00	2091	
2.9 (End Point)	25	836.499964	-32.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499996	2.00	2091	
3.8	25	836.499994	0.00	2091	
3.40	25	836.499998	4.00	2091	
2.9 (End Point)	25	836.499969	-25.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499996	1.00	2091	
3.8	25	836.499995	0.00	2091	
3.40	25	836.499998	3.00	2091	
2.9 (End Point)	25	836.499973	-22.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499993	-1.00	2091	
3.8	25	836.499994	0.00	2091	
3.40	25	836.499999	5.00	2091	
2.9 (End Point)	25	836.499967	-27.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499990	-4.00	2091	
3.8	25	836.499994	0.00	2091	
3.40	25	836.499996	2.00	2091	
2.9 (End Point)	25	836.499962	-32.00	2091	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	2535.000004	1.00	6338	
3.8	25	2535.000003	0.00	6338	
3.40	25	2535.000004	1.00	6338	
2.9 (End Point)	25	2535.000028	25.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	2535.000003	0.00	6338	
3.8	25	2535.000003	0.00	6338	
3.40	25	2535.000004	1.00	6338	
2.9 (End Point)	25	2535.000027	24.00	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	2535.000004	1.00	6338	
3.8	25	2535.000003	0.00	6338	
3.40	25	2535.000003	0.00	6338	
2.9 (End Point)	25	2535.000036	33.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	2535.000005	1.00	6338	
3.8	25	2535.000004	0.00	6338	
3.40	25	2535.000003	-1.00	6338	
2.9 (End Point)	25	2535.000041	37.00	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	2535.000003	0.00	6338	
3.8	25	2535.000003	0.00	6338	
3.40	25	2535.000004	1.00	6338	
2.9 (End Point)	25	2535.000030	27.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	2535.000004	1.00	6338	
3.8	25	2535.000003	0.00	6338	
3.40	25	2535.000003	0.00	6338	
2.9 (End Point)	25	2535.000029	26.00	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	2535.000002	-1.00	6338	
3.8	25	2535.000003	0.00	6338	
3.40	25	2535.000002	-1.00	6338	
2.9 (End Point)	25	2535.000046	43.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	2535.000005	1.00	6338	
3.8	25	2535.000004	0.00	6338	
3.40	25	2535.000004	0.00	6338	
2.9 (End Point)	25	2535.000035	31.00	6338	

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Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	1.4M QPSK CH 23095
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	707.499989	-5.00	1769	
3.8	25	707.499994	0.00	1769	
3.40	25	707.499998	4.00	1769	
2.9 (End Point)	25	707.499956	-38.00	1769	

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	1.4M 16 QAM CH 23095
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	707.499987	-6.00	1769	
3.8	25	707.499993	0.00	1769	
3.40	25	707.499995	2.00	1769	
2.9 (End Point)	25	707.499962	-31.00	1769	

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Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	3M QPSK CH 23095
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	707.499985	-9.00	1769	
3.8	25	707.499994	0.00	1769	
3.40	25	707.499998	4.00	1769	
2.9 (End Point)	25	707.499963	-31.00	1769	

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	3M 16 QAM CH 23095
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	707.499986	-5.00	1769	
3.8	25	707.499991	0.00	1769	
3.40	25	707.499994	3.00	1769	
2.9 (End Point)	25	707.499967	-24.00	1769	

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Reference Frequency:		LTE B12 Mid Channel	707.5 MHz	5M QPSK CH 23095
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.35	25	707.499986	-6.00	1769
3.8	25	707.499992	0.00	1769
3.40	25	707.499993	1.00	1769
2.9 (End Point)	25	707.499971	-21.00	1769

Reference Frequency:		LTE B12 Mid Channel	707.5 MHz	5M 16 QAM CH 23095
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.35	25	707.499985	-9.00	1769
3.8	25	707.499994	0.00	1769
3.40	25	707.499995	1.00	1769
2.9 (End Point)	25	707.499963	-31.00	1769

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Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	707.499981	-4.00	1769	
3.8	25	707.499985	0.00	1769	
3.40	25	707.499992	7.00	1769	
2.9 (End Point)	25	707.499960	-25.00	1769	

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M 16 QAM CH 23095
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	707.499983	-1.00	1769	
3.8	25	707.499984	0.00	1769	
3.40	25	707.499989	5.00	1769	
2.9 (End Point)	25	707.499962	-22.00	1769	

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Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	5M QPSK CH 23230
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	781.999994	-1.00	1955	
3.8	25	781.999995	0.00	1955	
3.40	25	781.999991	-4.00	1955	
2.9 (End Point)	25	782.000032	37.00	1955	

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	5M 16 QAM CH 23230
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	781.999993	-3.00	1955	
3.8	25	781.999996	0.00	1955	
3.40	25	781.999999	3.00	1955	
2.9 (End Point)	25	782.000033	37.00	1955	

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Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	781.999992	-5.00	1955	
3.8	25	781.999997	0.00	1955	
3.40	25	781.999995	-2.00	1955	
2.9 (End Point)	25	782.000028	31.00	1955	

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M 16 QAM CH 23230
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	781.999992	-2.00	1955	
3.8	25	781.999994	0.00	1955	
3.40	25	781.999995	1.00	1955	
2.9 (End Point)	25	782.000041	47.00	1955	

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M QPSK CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	709.999995	-2.00	1775	
3.8	25	709.999997	0.00	1775	
3.40	25	709.999996	-1.00	1775	
2.9 (End Point)	25	709.999989	-8.00	1775	

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M 16 QAM CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	709.999994	-2.00	1775	
3.8	25	709.999996	0.00	1775	
3.40	25	709.999997	1.00	1775	
2.9 (End Point)	25	709.999991	-5.00	1775	

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH
		nel			23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	709.999993	-2.00	1775	
3.8	25	709.999995	0.00	1775	
3.40	25	709.999998	3.00	1775	
2.9 (End Point)	25	709.999988	-7.00	1775	

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	1.4M 16 QAM CH
		nel			23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	709.999994	-2.00	1775	
3.8	25	709.999996	0.00	1775	
3.40	25	709.999999	3.00	1775	
2.9 (End Point)	25	709.999987	-9.00	1775	

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## 13. PEAK TO AVERAGE RATIO

### 13.1. Standard Applicable:

According FCC 24.232(d), FCC 27.53 (d) (5), FCC 27.50(i) (B) – The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

### 13.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

### 13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:  
Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal =1ms  
Set the number of counts to a value that stabilizes the measured CCDF curve.

### 13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

### 13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.1 Tabular Results:

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 128(L)		Channel 190(M)		Channel 251(H)	
	824.2MHz		836.6MHz		848.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 850	9.57	13	9.45	13	10.15	13
GPRS 850	9.93	13	9.25	13	8.98	13
EDGE 850	10.99	13	12.40	13	11.07	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 512(L)		Channel 661(M)		Channel 810(H)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 1900	9.80	13	9.79	13	8.57	13
GPRS 1900	9.32	13	9.62	13	9.79	13
EDGE 1900	11.88	13	11.35	13	11.65	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 9262(L)		Channel 9400(M)		Channel 9538(H)	
	1852.4MHz		1880.0MHz		1907.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band II	2.99	13	2.85	13	2.53	13
HSDPA Band II	3.69	13	3.45	13	3.32	13
HSUPA Band II	3.49	13	3.45	13	3.39	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 1312(L)		Channel 1413(M)		Channel 1513(H)	
	1712.4MHz		1732.6MHz		1752.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band IV	2.97	13	3.01	13	2.94	13
HSDPA Band IV	3.67	13	4.02	13	3.91	13
HSUPA Band IV	3.68	13	3.60	13	3.81	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 4132(L)		Channel 4183(M)		Channel 4233(H)	
	826.4MHz		836.6MHz		846.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band V	3.18	13	3.10	13	3.13	13
HSDPA Band V	4.07	13	3.50	13	4.02	13
HSUPA Band V	3.59	13	3.41	13	3.88	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18607(L)		Channel 18900(M)		Channel 19193(H)	
	1850.7MHz		1880.0MHz		1909.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:1.4M	5.56	13	5.83	13	5.07	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18615(L)		Channel 18900(M)		Channel 19185(H)	
	1851.5MHz		1880.0MHz		1908.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:3M	5.67	13	5.88	13	5.44	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 19975(L)		Channel 20175(M)		Channel 20375(H)	
	1852.5MHz		1880.0MHz		1907.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:5M	5.91	13	5.95	13	5.71	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20000 (L)		Channel 20175(M)		Channel 20350 (H)	
	1855.0 MHz		1880.0 MHz		1905.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:10M	6.02	13	6.04	13	6.60	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20025(L)		Channel 20175(M)		Channel 20325(H)	
	1857.5 MHz		1880.0 MHz		1902.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:15M	6.62	13	6.59	13	7.06	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20050(L)		Channel 20175(M)		Channel 20300(H)	
	1860.0 MHz		1880.0 MHz		1900.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:20M	7.10	13	7.03	13	6.08	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 19957(L)		Channel 20175(M)		Channel 20393(H)	
	1710.7MHz		1732.5MHz		1754.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:1.4M	6.17	13	5.96	13	5.80	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 19965(L)		Channel 20175(M)		Channel 20385(H)	
	1711.5MHz		1732.5MHz		1753.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:3M	6.05	13	5.99	13	5.88	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 19975(L)		Channel 20175(M)		Channel 20375(H)	
	1712.5MHz		1732.5MHz		1752.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:5M	6.10	13	6.15	13	6.08	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20000 (L)		Channel 20175(M)		Channel 20350 (H)	
	1715.0MHz		1732.5MHz		1750MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:10M	6.10	13	6.22	13	6.32	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20025(L)		Channel 20175(M)		Channel 20325(H)	
	1717.5MHz		1732.5MHz		1747.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:15M	6.62	13	6.70	13	6.68	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20050(L)		Channel 20175(M)		Channel 20300(H)	
	1720.0MHz		1732.5MHz		1745.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:20M	7.07	13	7.10	13	7.20	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20407(L)		Channel 20525(M)		Channel 20643(H)	
	824.7MHz		836.5MHz		848.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:1.4M	6.84	13	6.62	13	6.49	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20415 (L)		Channel 20525 (M)		Channel 20643 (H)	
	825.5MHz		836.5MHz		847.5	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:3M	6.76	13	6.60	13	6.53	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20425(L)		Channel 20525(M)		Channel 20625(H)	
	826.5MHz		836.5MHz		846.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:5M	6.68	13	6.70	13	6.67	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20450 (L)		Channel 20525(M)		Channel 20600 (H)	
	829.0 MHz		836.5 MHz		844.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:10M	6.45	13	6.60	13	6.63	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20775(L)		Channel 21100(M)		Channel 21425(H)	
	2502.5MHz		2535.0MHz		2567.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:5M	6.33	13	6.26	13	6.15	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20800 (L)		Channel 21100(M)		Channel 21375 (H)	
	2505.0MHz		2535.0MHz		2565.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:10M	6.28	13	6.18	13	6.15	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20825(L)		Channel 21100(M)		Channel 21375(H)	
	2507.5MHz		2535.0MHz		2562.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:15M	6.65	13	6.60	13	6.55	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20850 (L)		Channel 21100(M)		Channel 21350 (H)	
	2510.0MHz		2535.0MHz		2560.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:20M	7.00	13	6.98	13	6.89	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23017(L)		Channel 23095(M)		Channel 23173(H)	
	699.7MHz		707.5MHz		715.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 12/BW:1.4M	6.69	13	6.51	13	6.67	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23025(L)		Channel 23095(M)		Channel 23165(H)	
	700.5MHz		707.5MHz		714.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 12/BW:3M	6.57	13	6.57	13	6.58	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23035(L)		Channel 23095(M)		Channel 23155(H)	
	701.5MHz		707.5MHz		713.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 12/BW:5M	6.68	13	6.63	13	6.58	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23060 (L)		Channel 23095(M)		Channel 23130 (H)	
	704.0 MHz		707.5 MHz		711.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 12/BW:10M	6.70	13	6.63	13	6.36	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23205(L)		Channel 23230(M)		Channel 23255(H)	
	779.5MHz		782.0MHz		784.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 13/BW:5M	6.36	13	6.24	13	6.42	13

TEST CONDITIONS	Peak-to-Average Ratio	
	Channel 23230(M)	
	782.0 MHz	
	dB	
Tnom / Vnom	Measured	Limit
BAND 13/BW:10M	5.34	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23755(L)		Channel 23790(M)		Channel 23825(H)	
	706.5MHz		710.0MHz		713.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 17/BW:5M	5.56	13	6.49	13	6.49	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23780 (L)		Channel 23790(M)		Channel 23800 (H)	
	709.0 MHz		710.0 MHz		711.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 17/BW:10M	6.40	13	6.38	13	6.31	13

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13.5.2 Measurement Results:

Figure 13-1: GSM 850 Channel Low

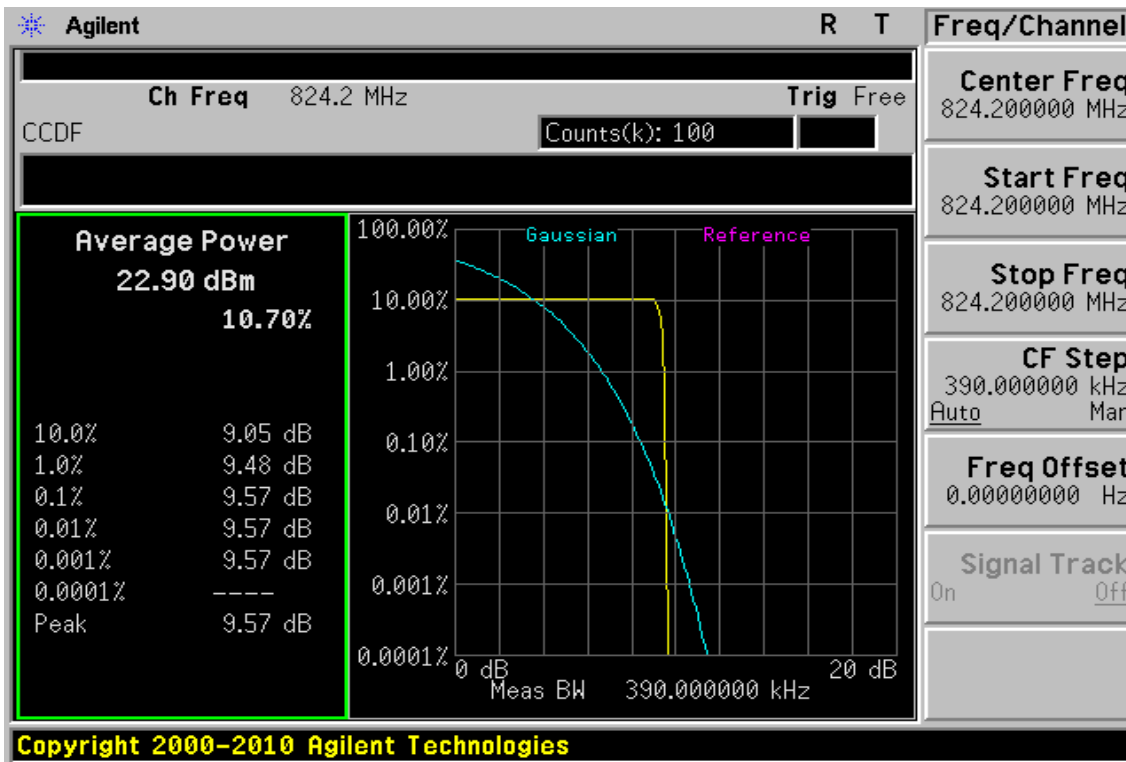
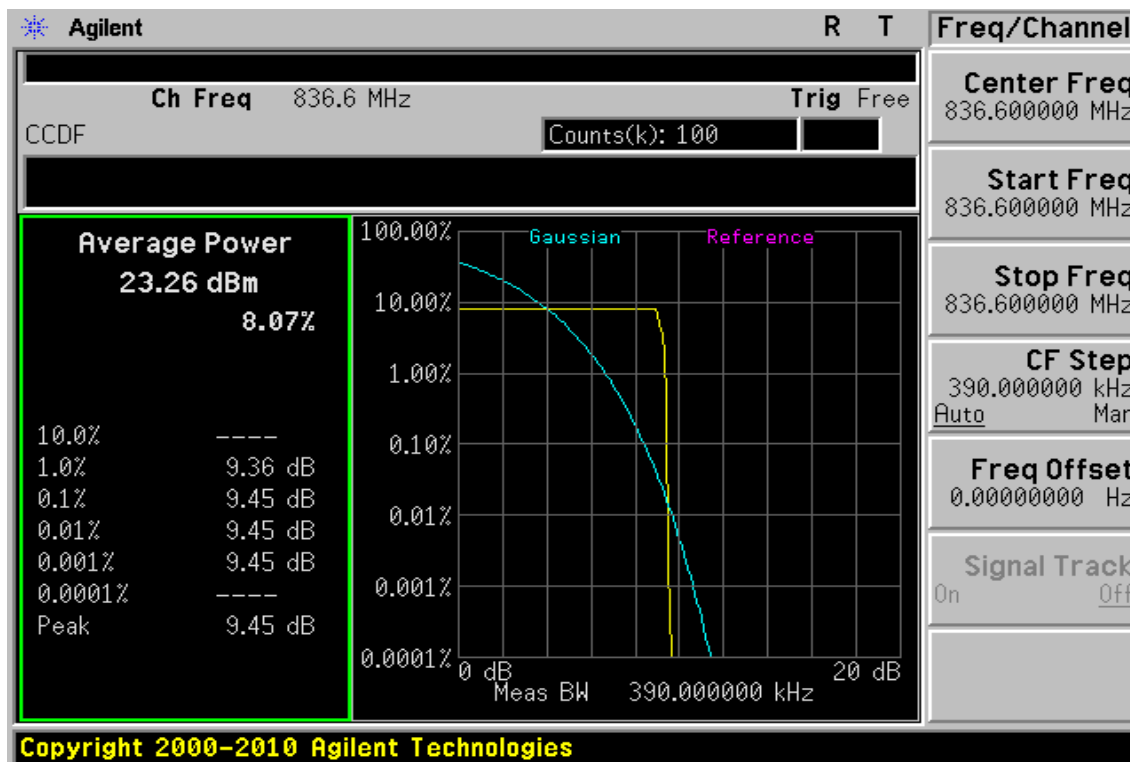


Figure 13-2: GSM 850 Channel Mid



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Figure 13-3: GSM 850 Channel High

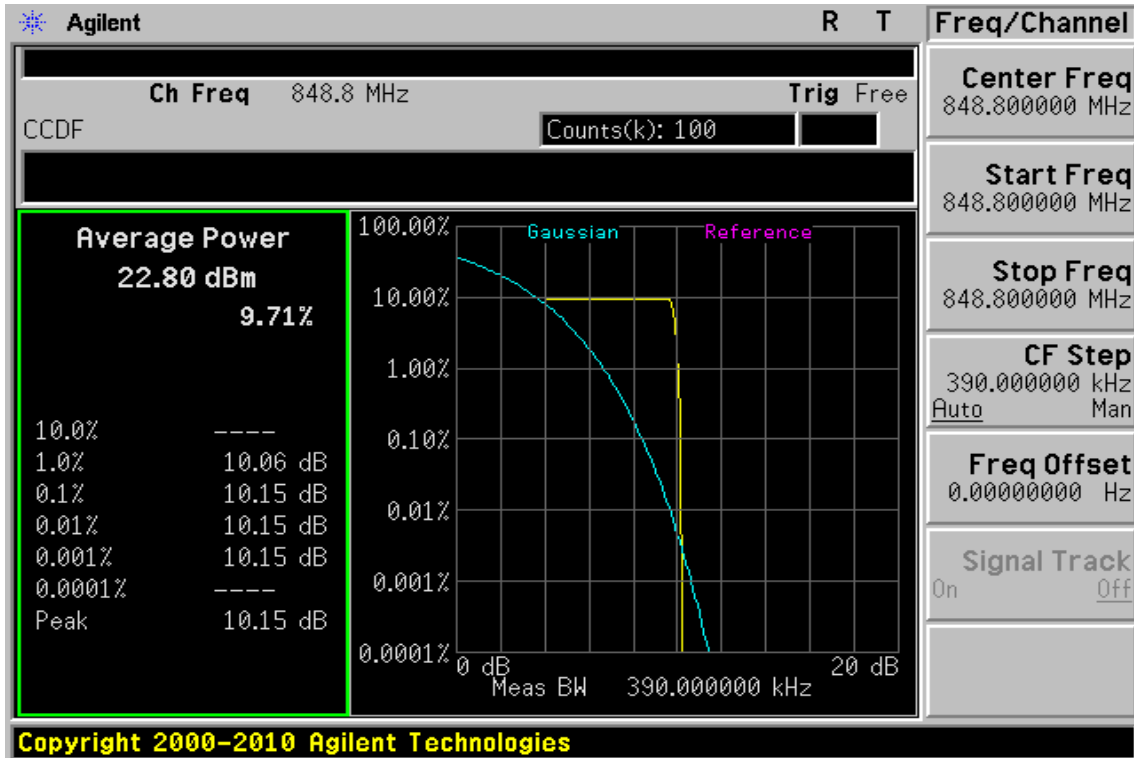
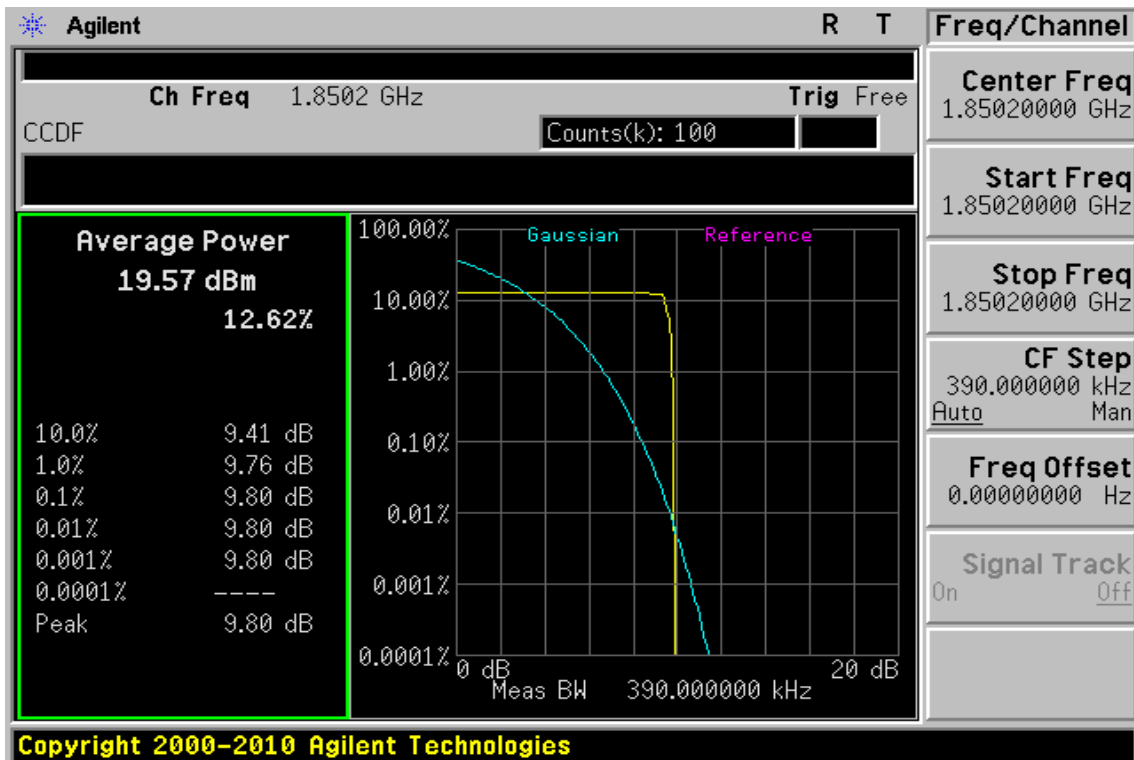


Figure 13-4: GSM 1900 Channel Low



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Figure 13-5: GSM 1900 Channel Mid

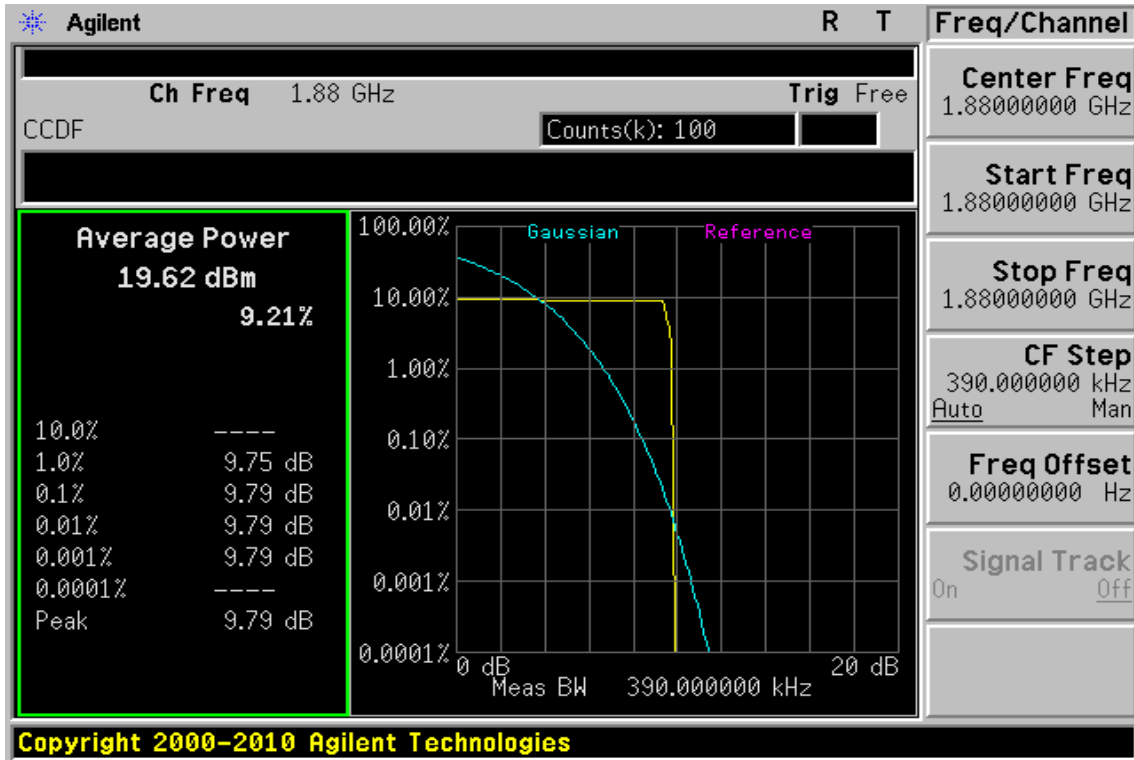
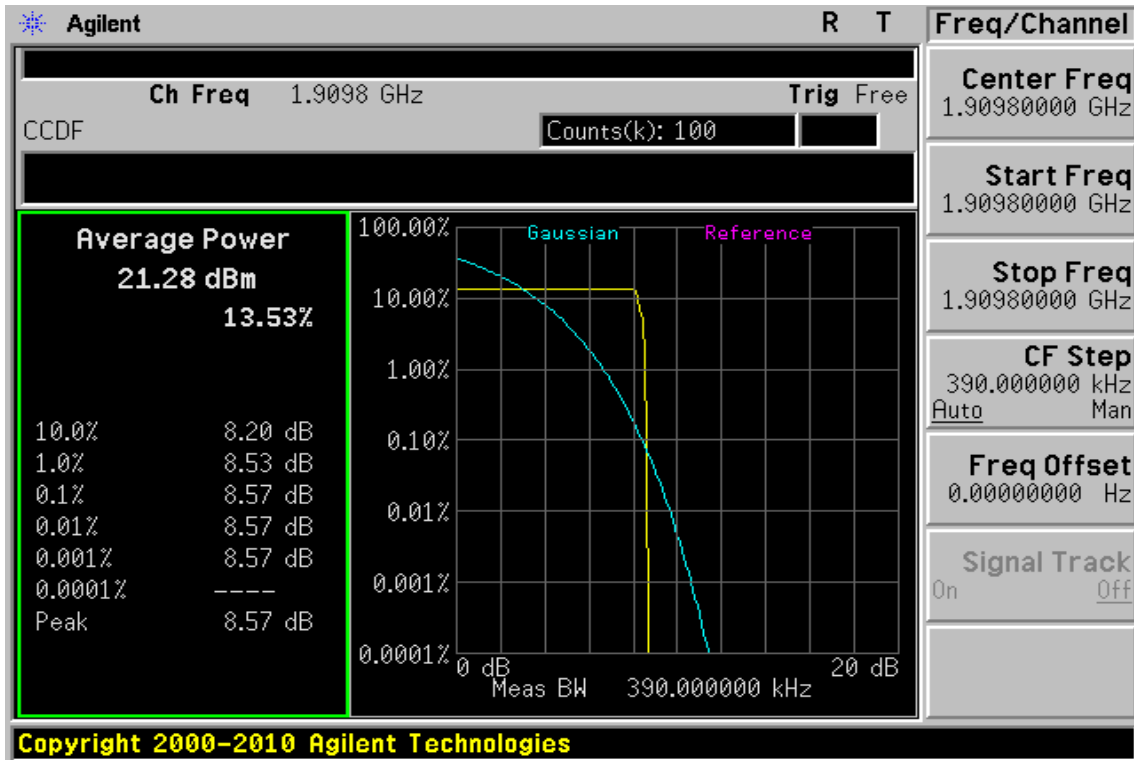


Figure 13-6: GSM 1900 Channel High



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Figure 13-7: GPRS 850 Channel Low

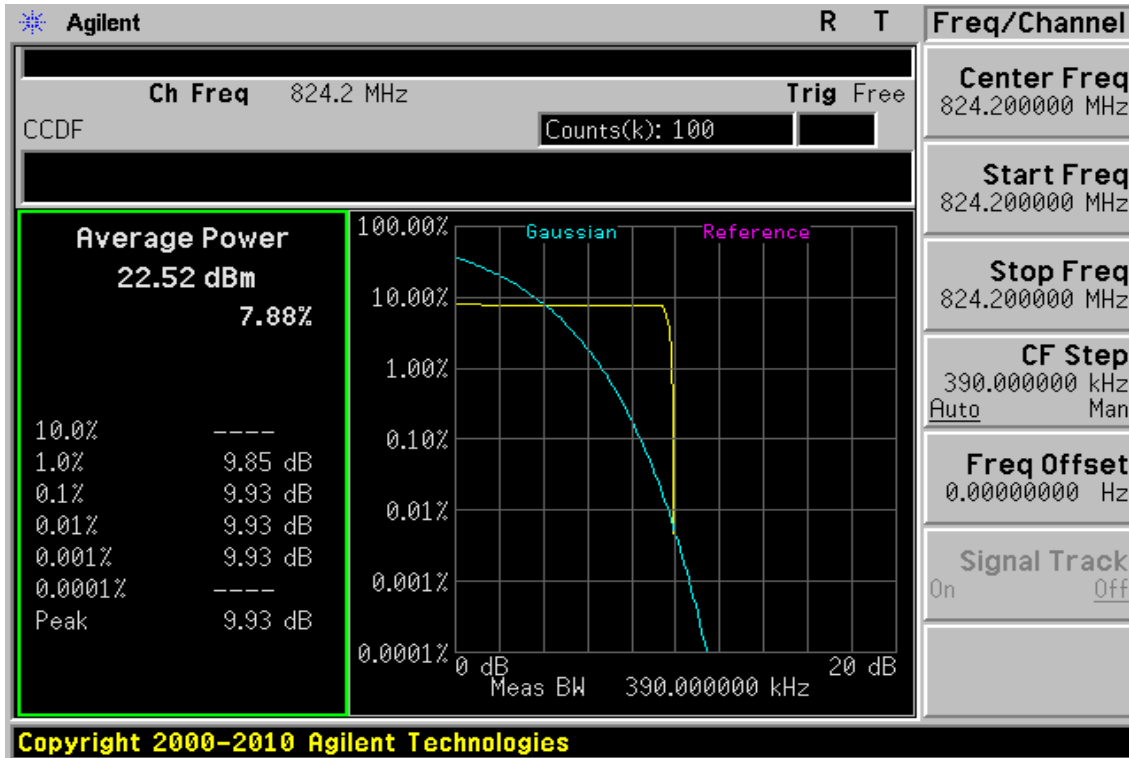
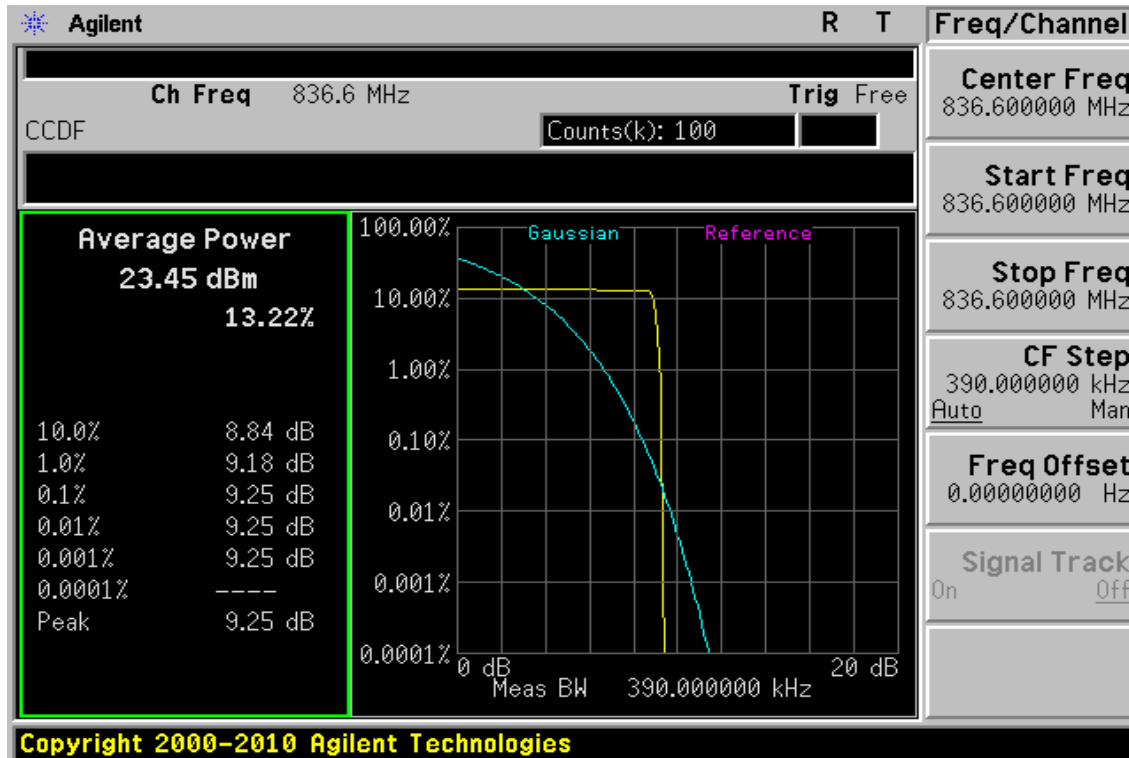


Figure 13-8: GPRS 850 Channel Mid



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Figure 13-9: GPRS 850 Channel High

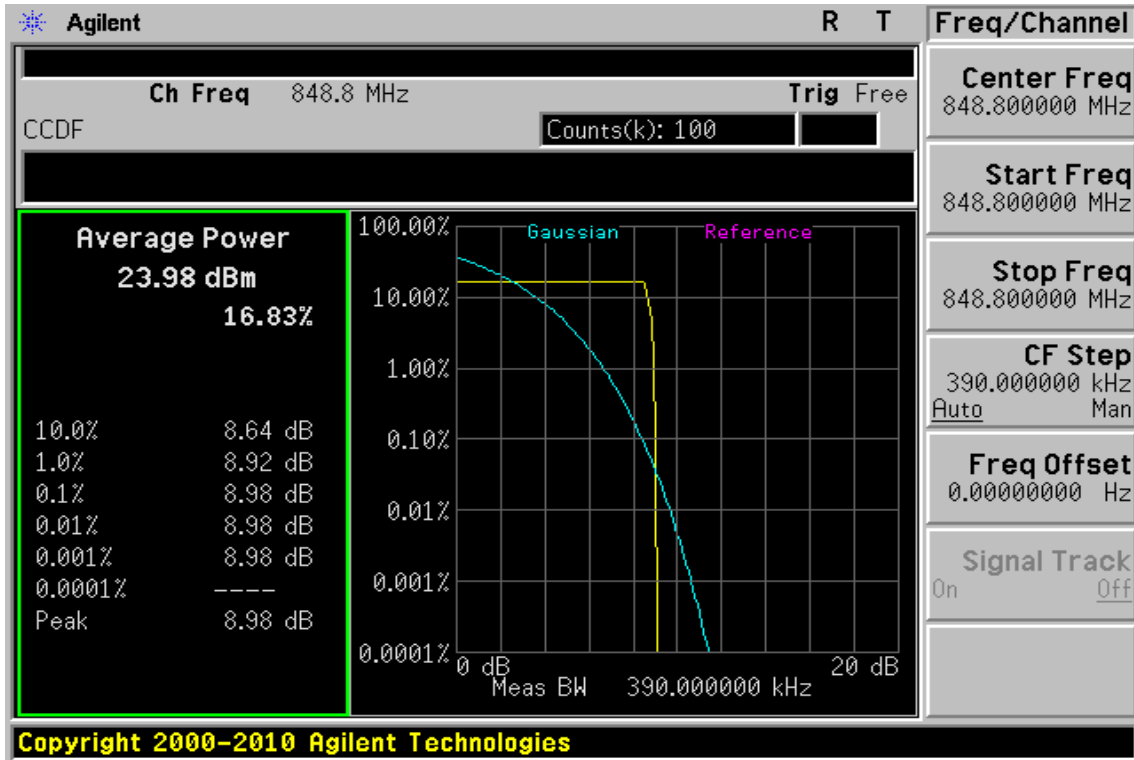
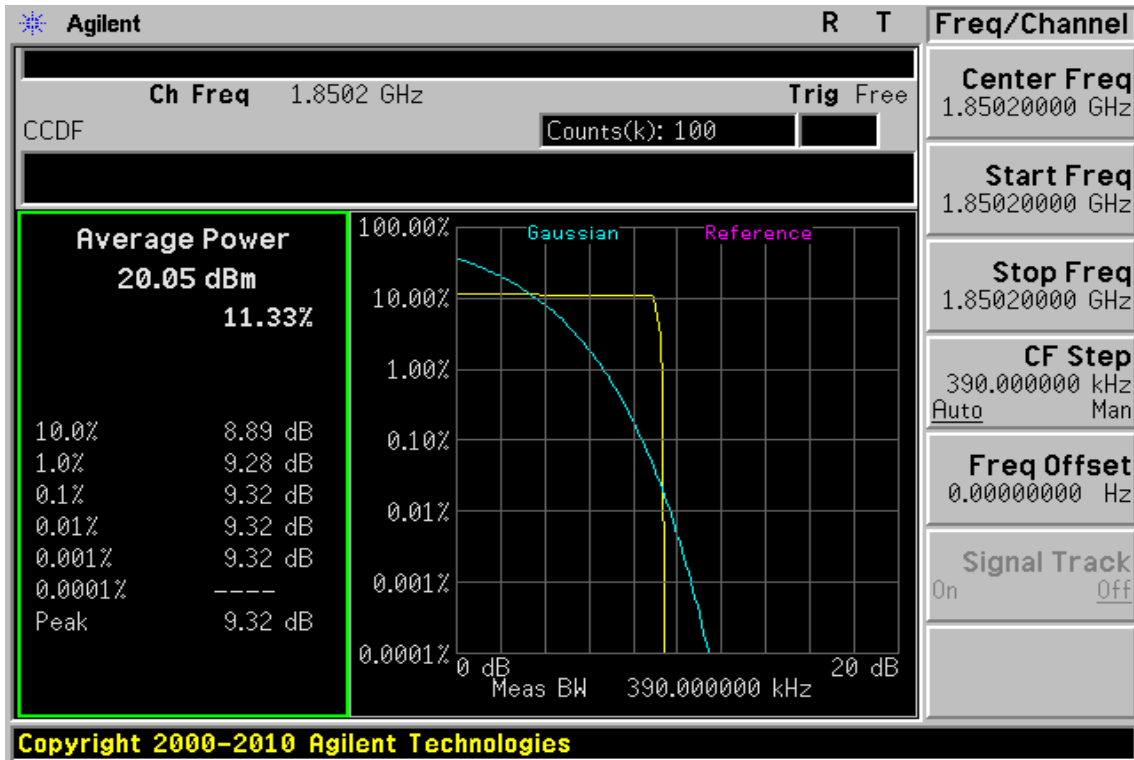


Figure 13-10: GPRS 1900 Channel Low



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Figure 13-11 GPRS 1900 Channel Mid

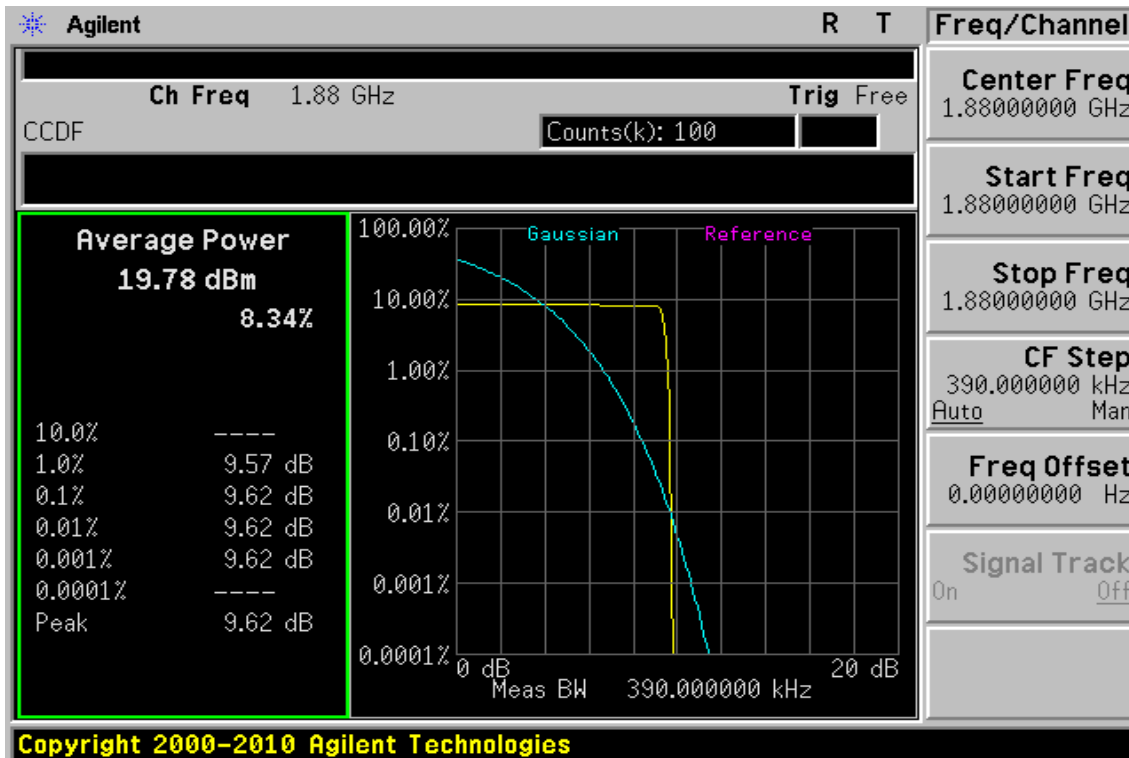
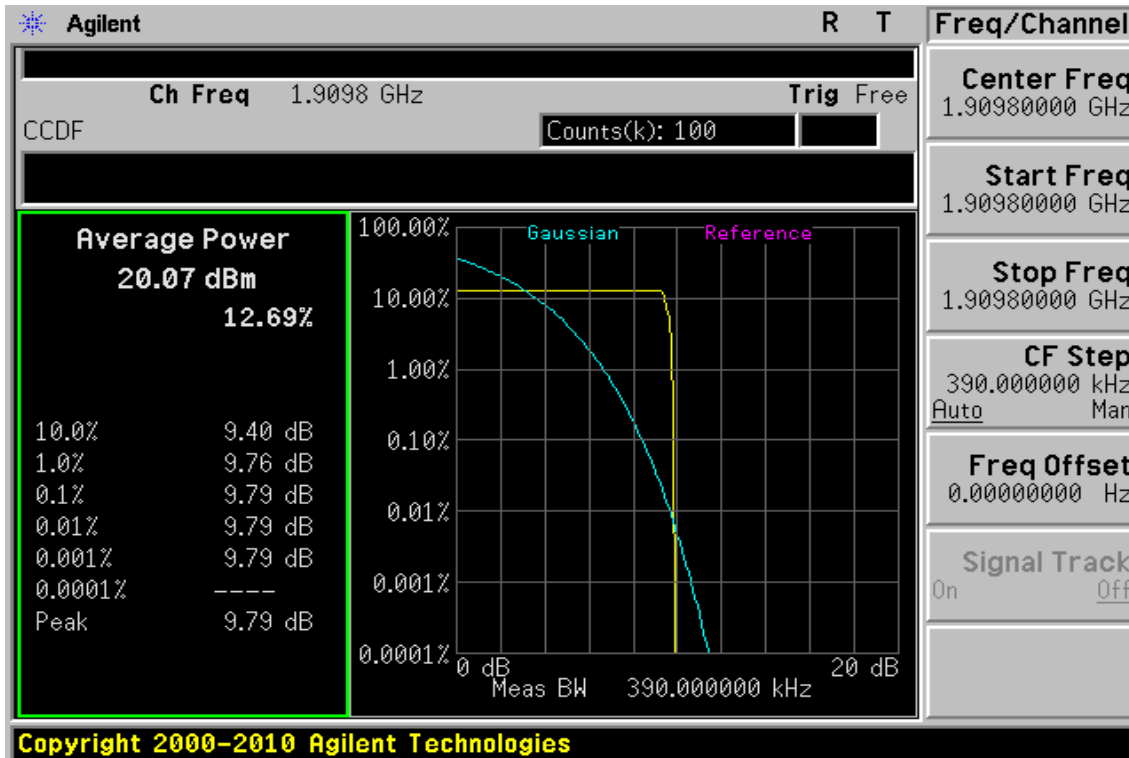


Figure 13-12: GPRS 1900 Channel High



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Figure 13-13: EDGE 850 Channel Low

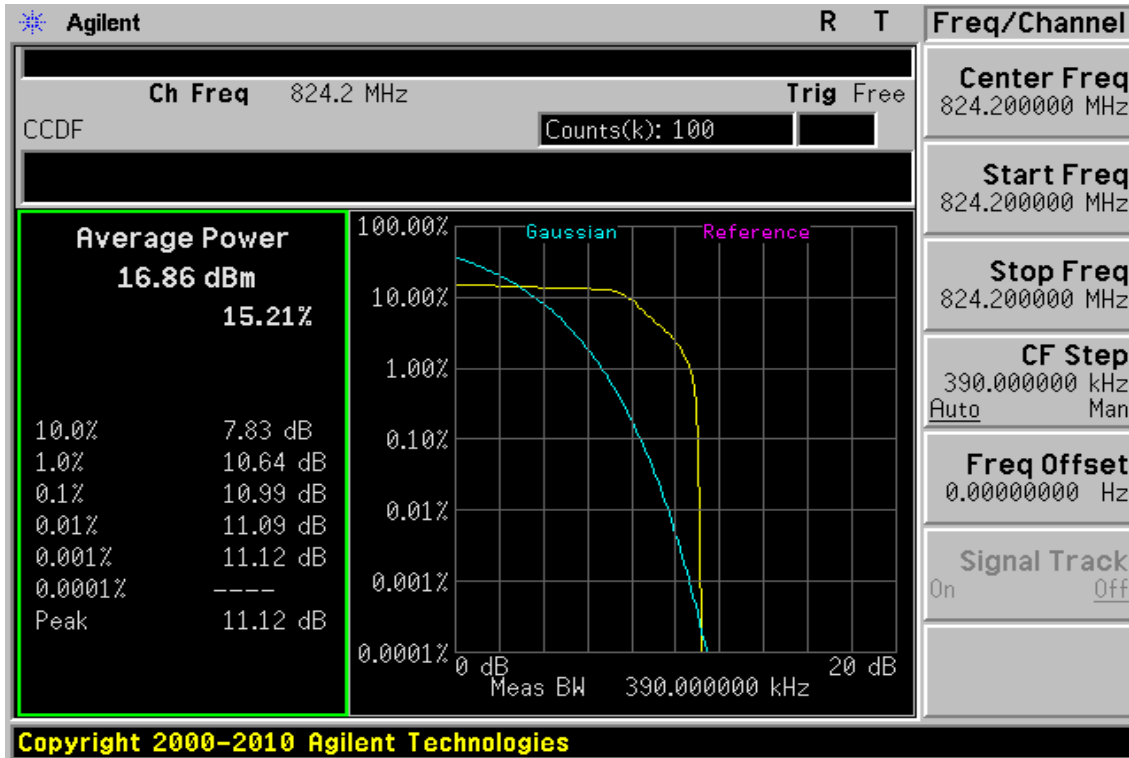
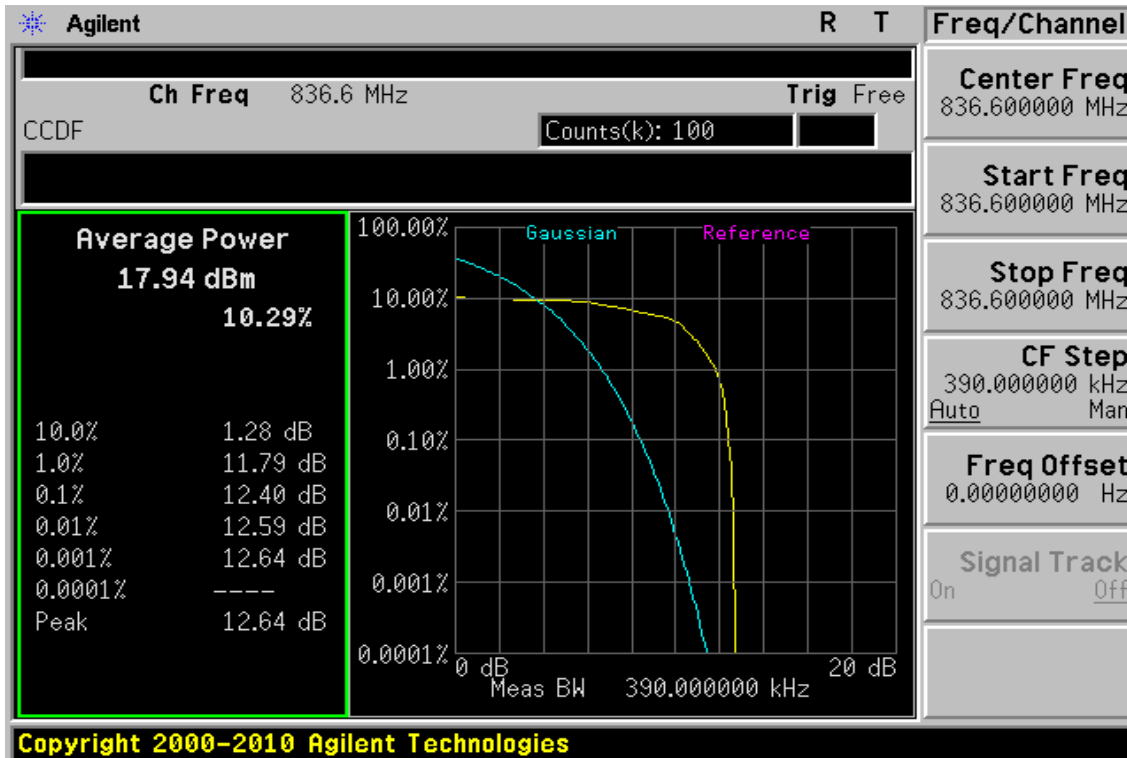


Figure 13-14 EDGE 850 Channel Mid



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Figure 13-15: EDGE 850 Channel High

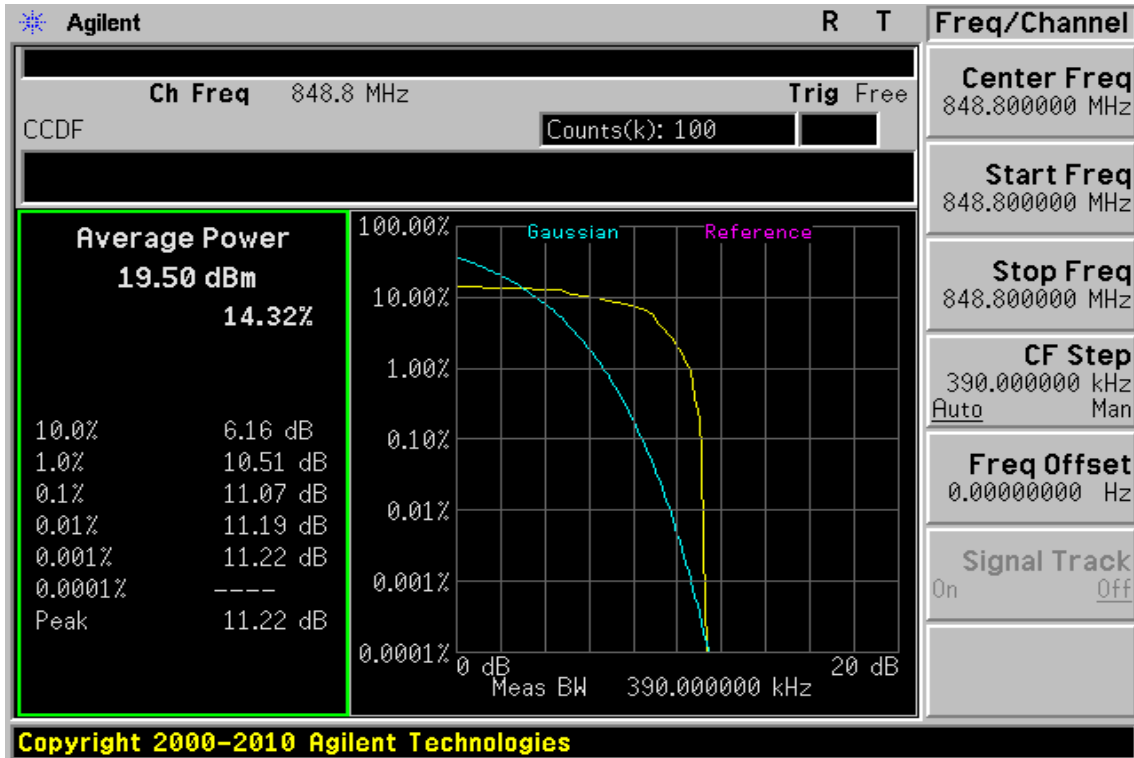
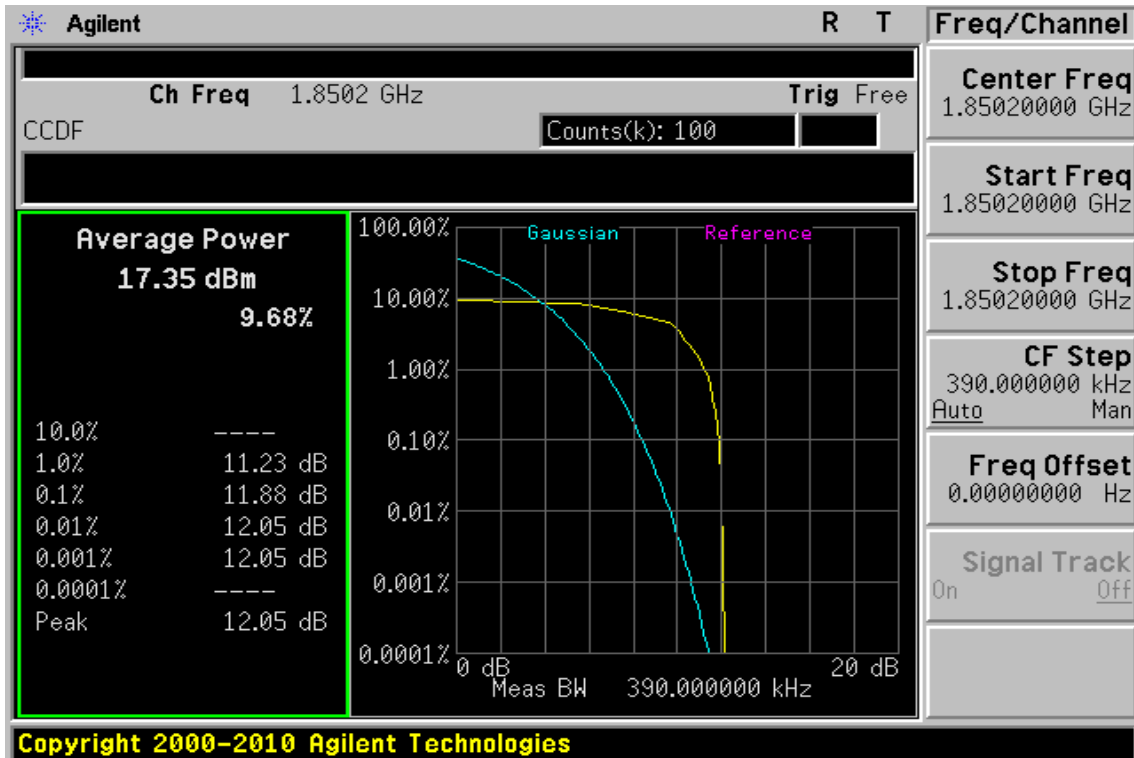


Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid

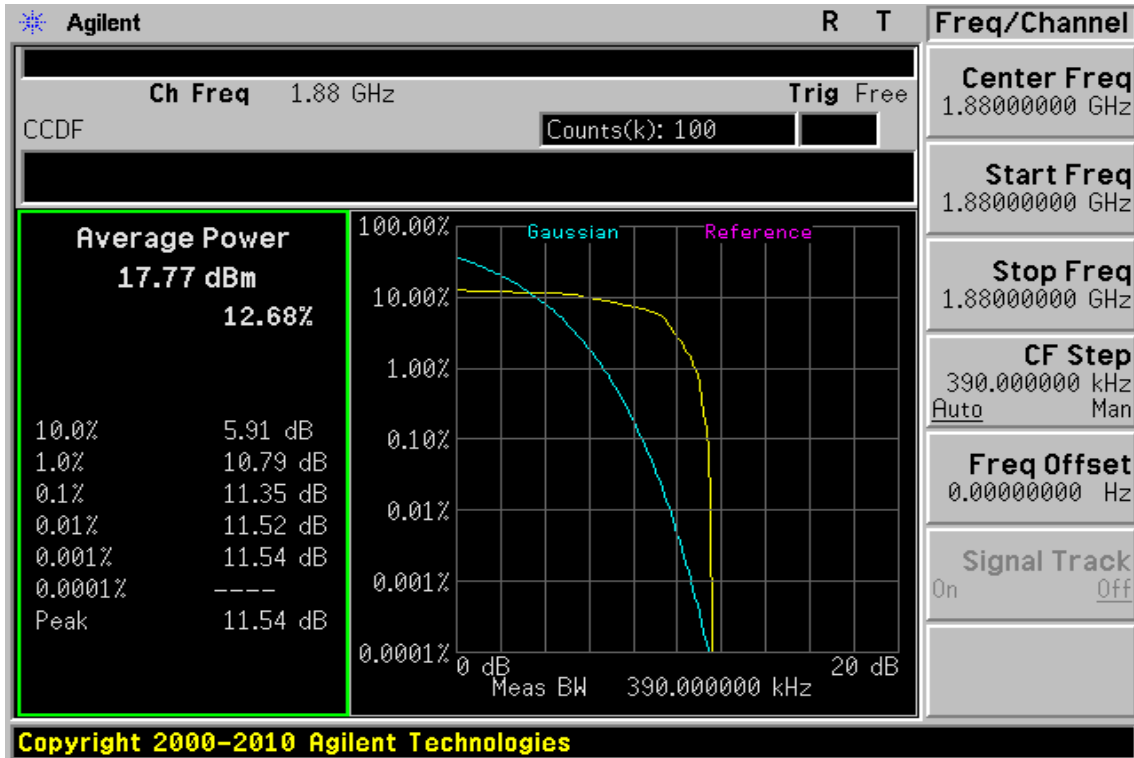
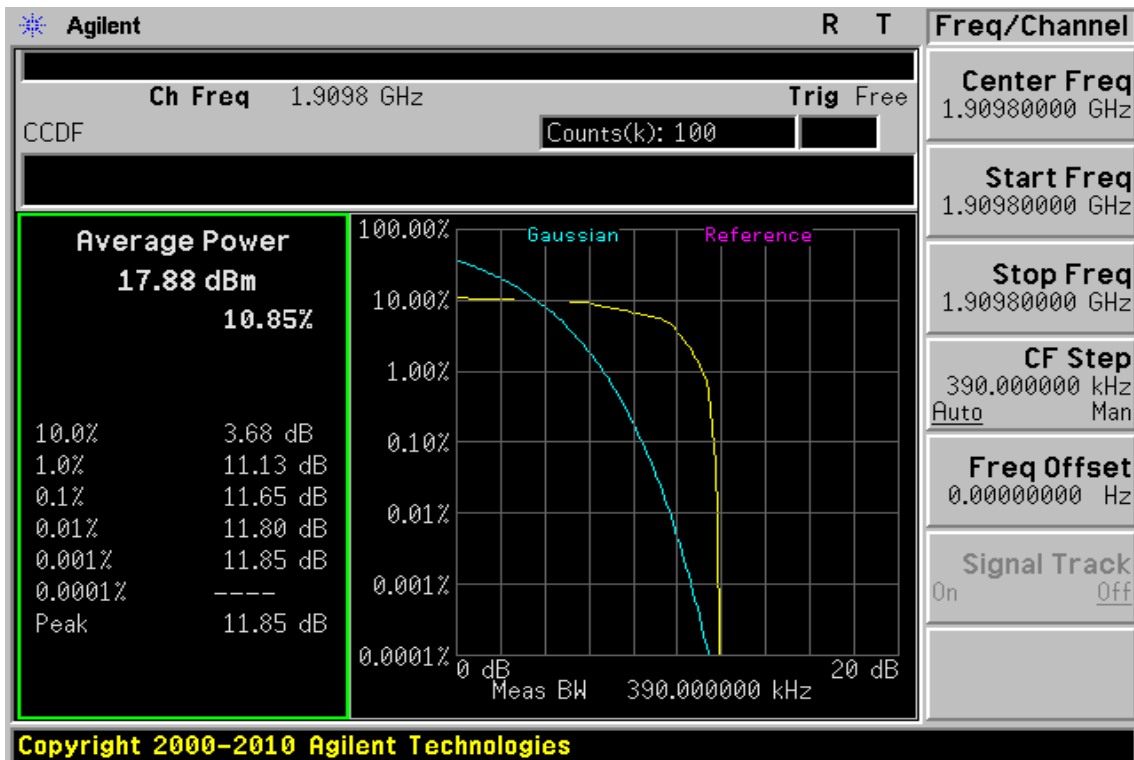


Figure 13-18: EDGE 1900 Channel High



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Figure 13-19: WCDMA Band II Channel Low

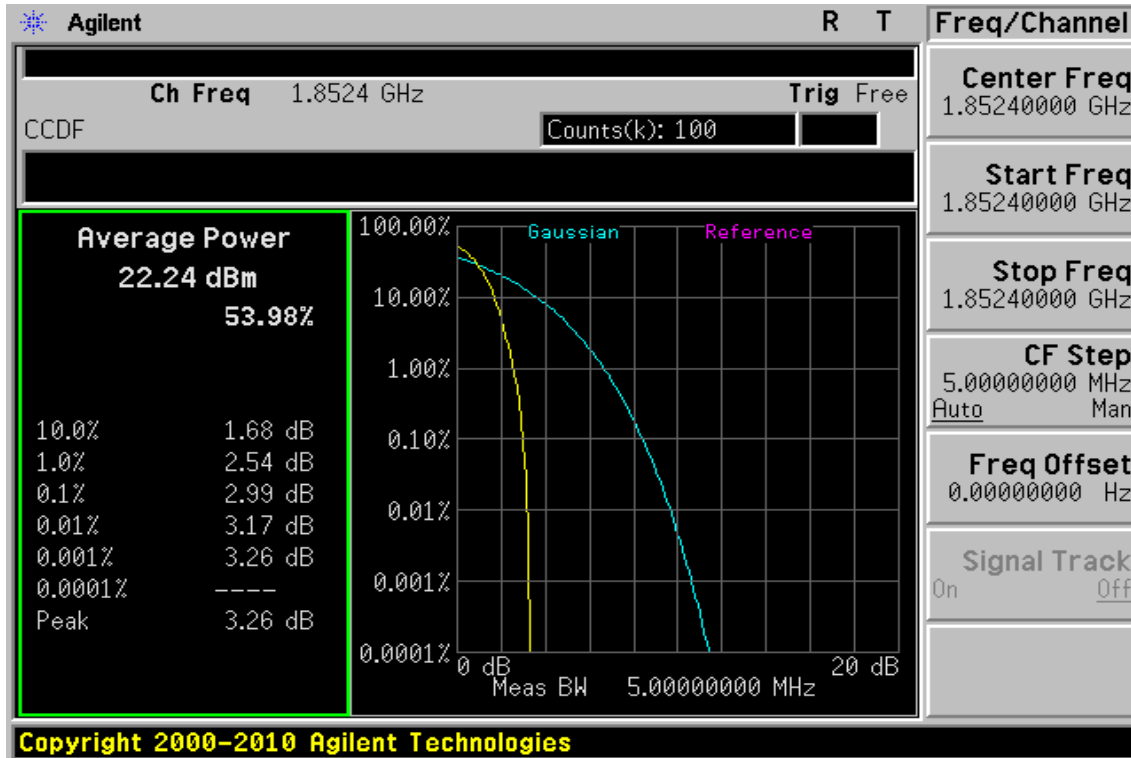
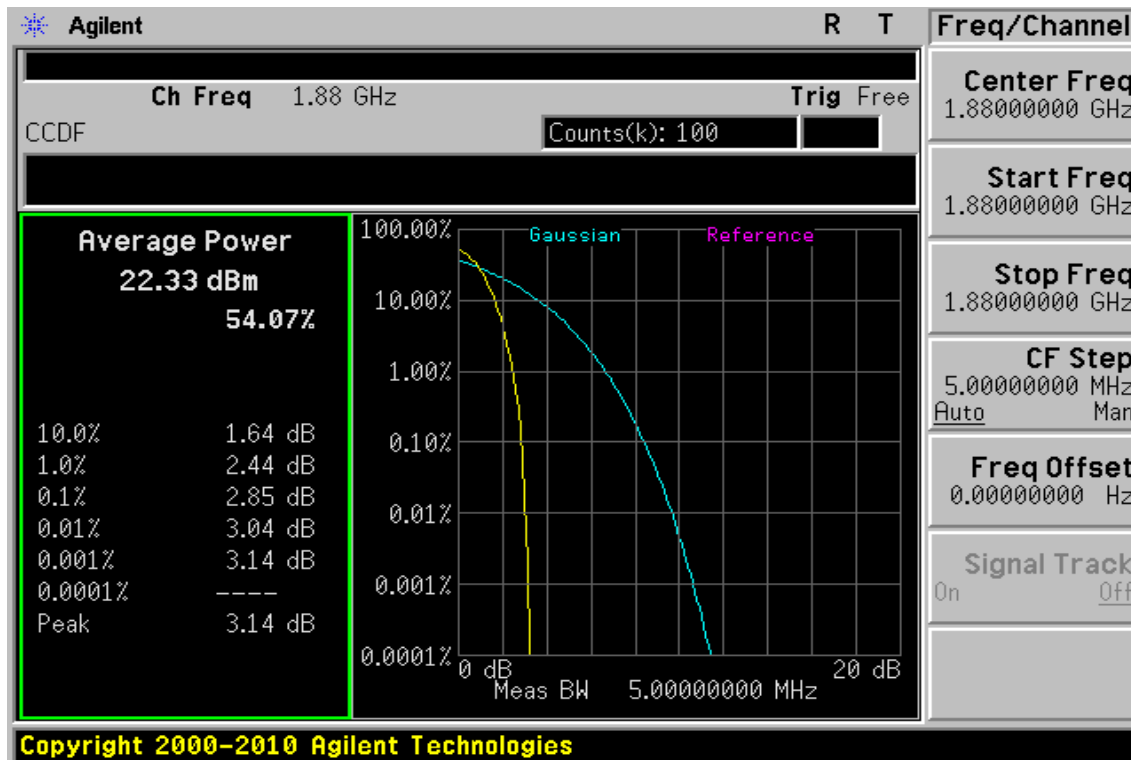


Figure 13-20: WCDMA Band II Channel Mid



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Figure 13-21: WCDMA Band II Channel High

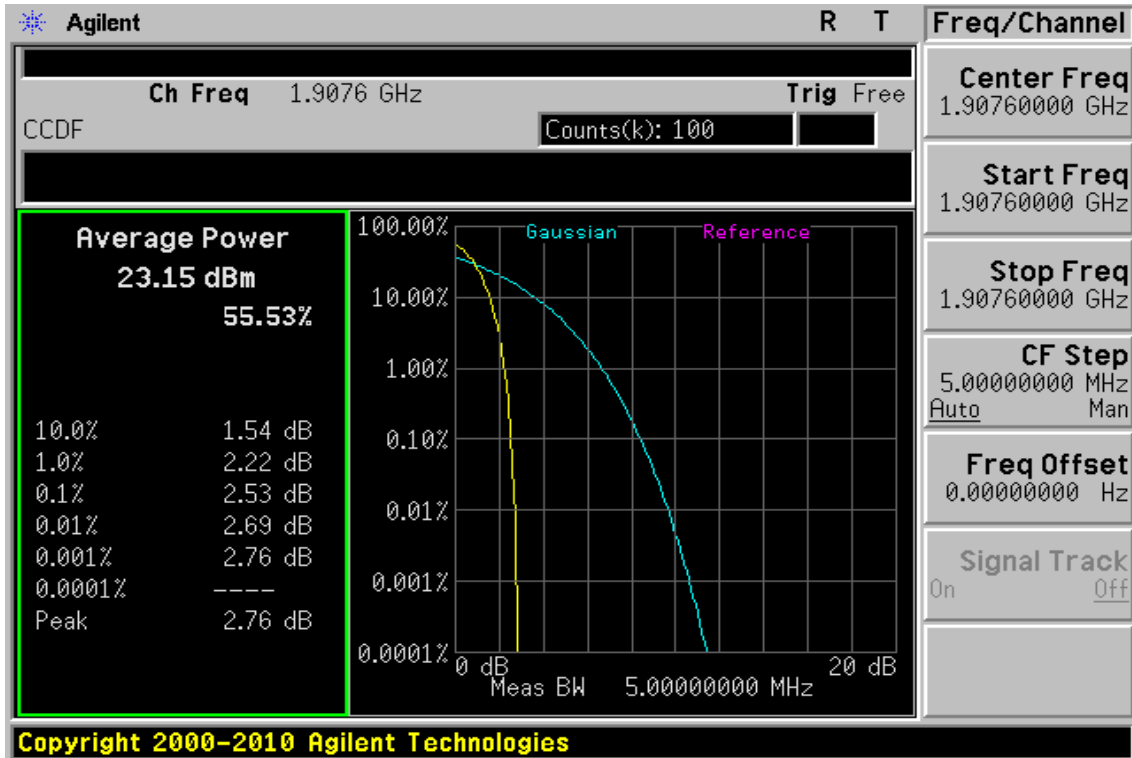
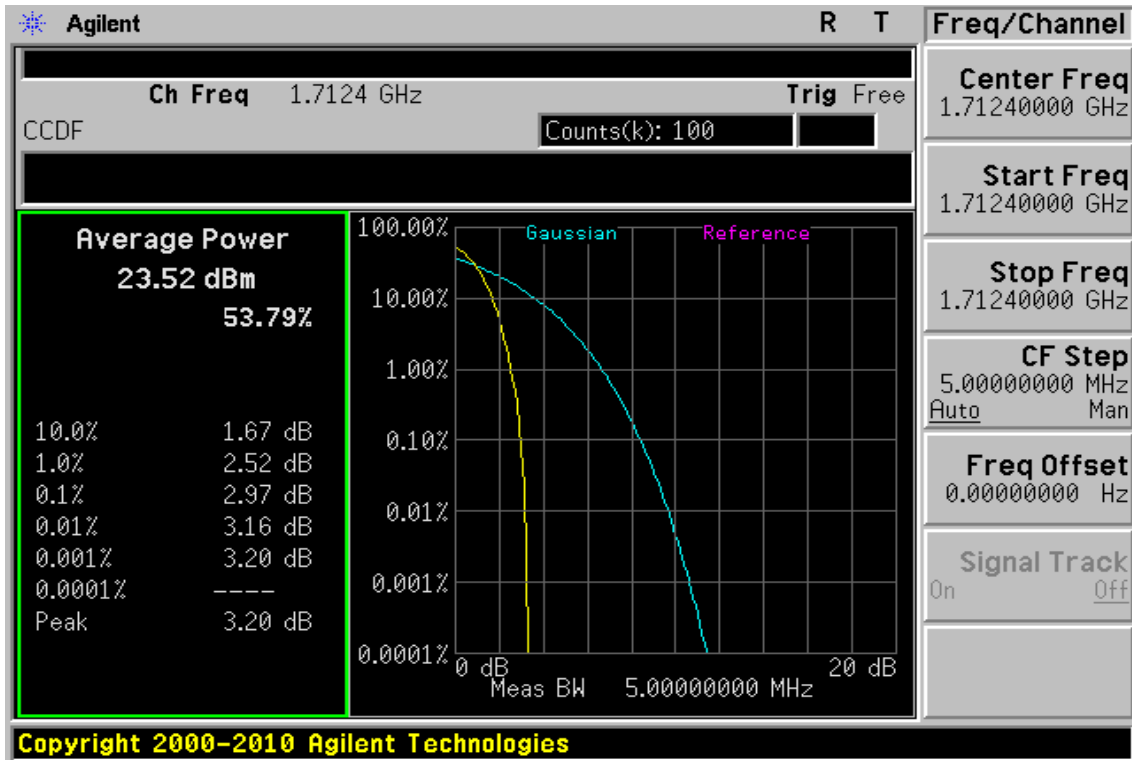


Figure 13-22: WCDMA Band IV Channel Low



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Figure 13-23: WCDMA Band IV Channel Mid

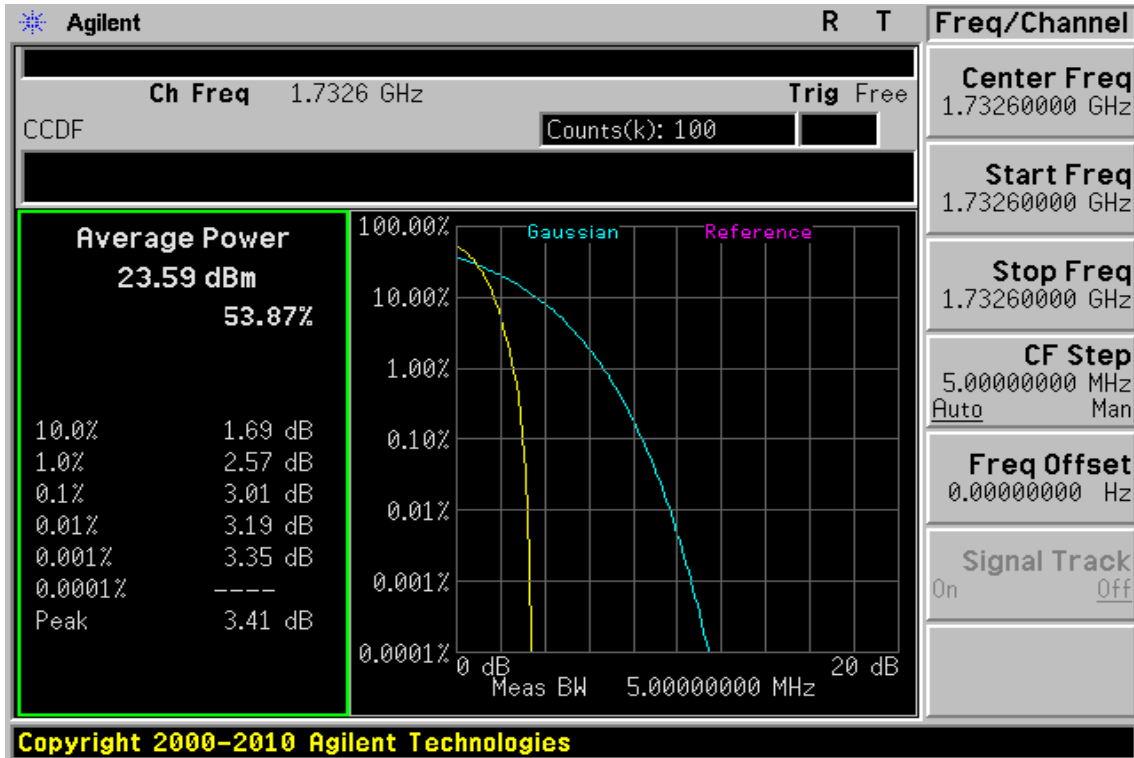
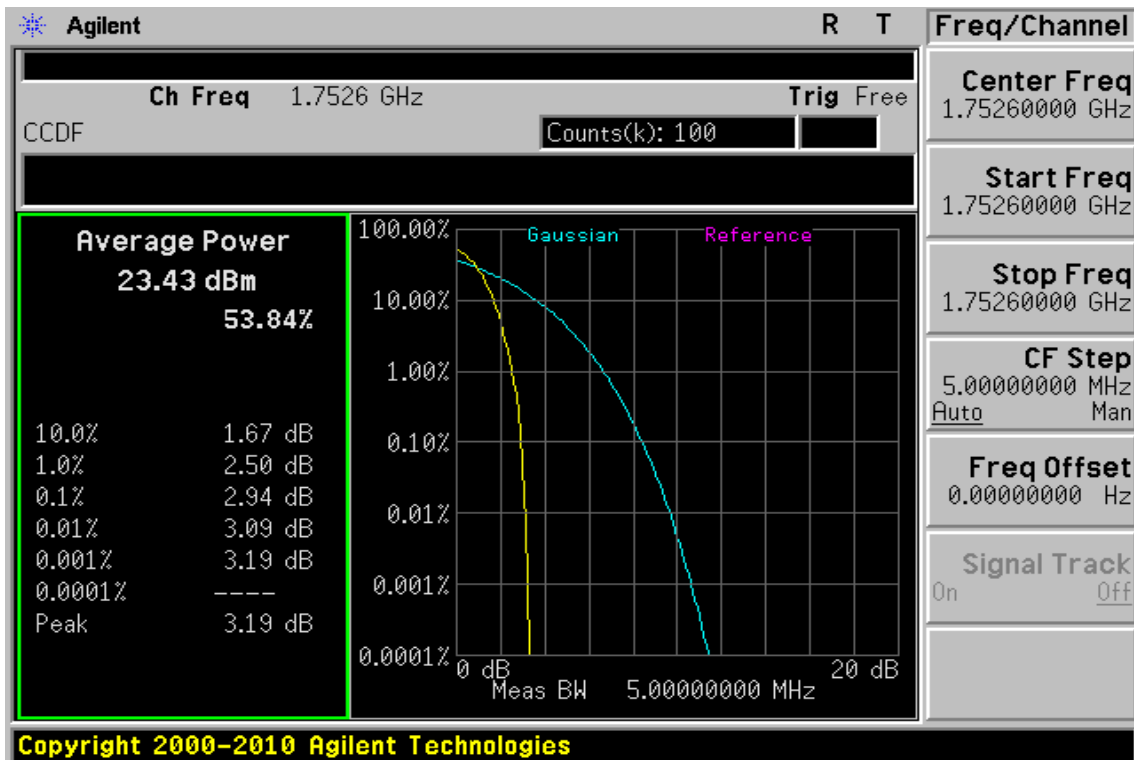


Figure 13-24: WCDMA Band IV Channel High



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Figure 13-25: WCDMA Band V Channel Low

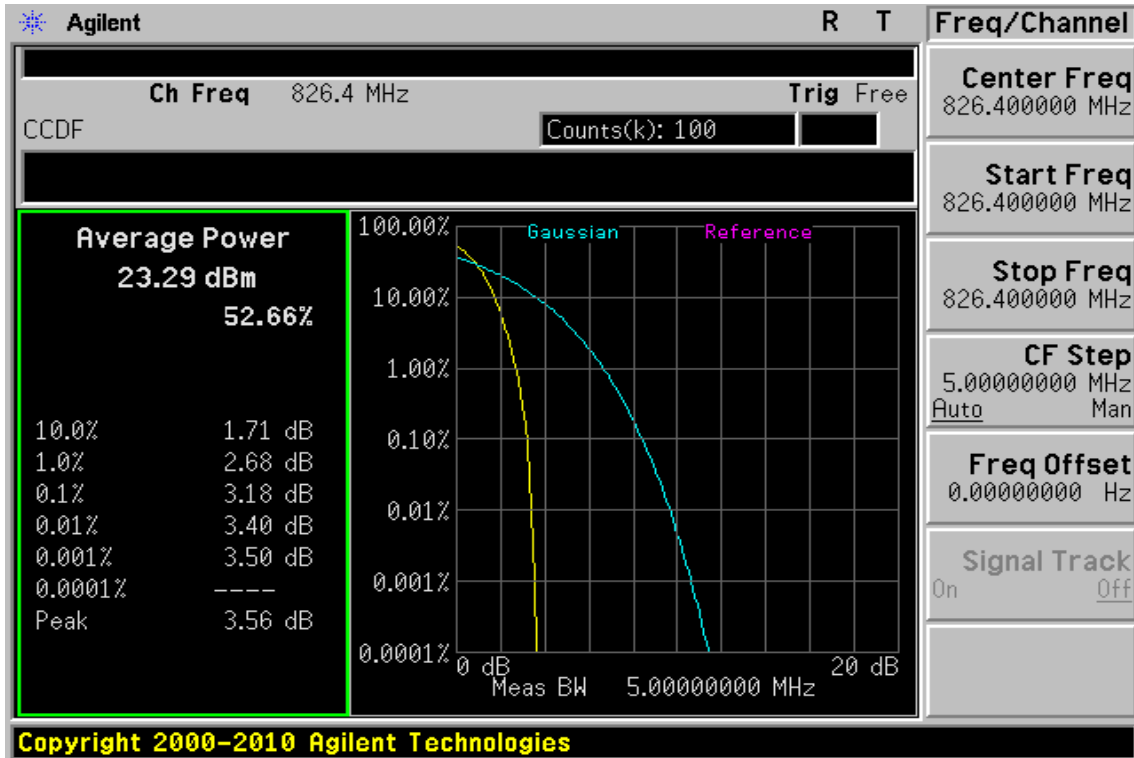
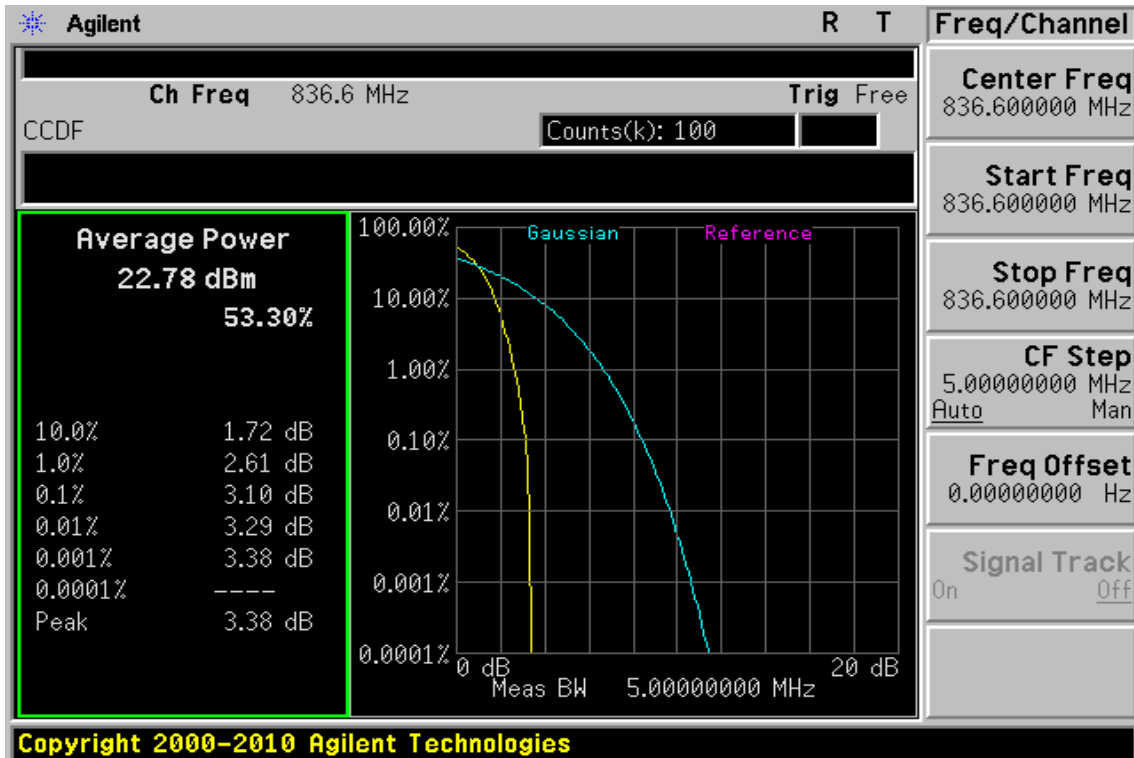


Figure 13-26: WCDMA Band V Channel Mid



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Figure 13-27: WCDMA Band V Channel High

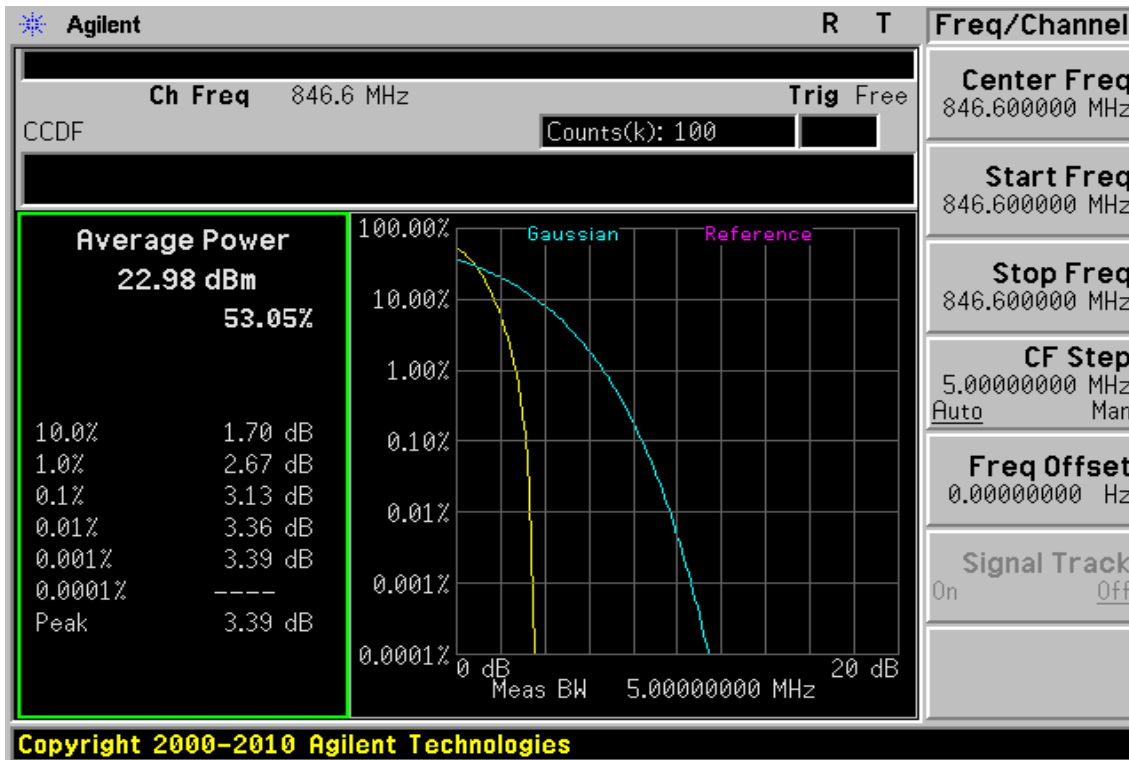
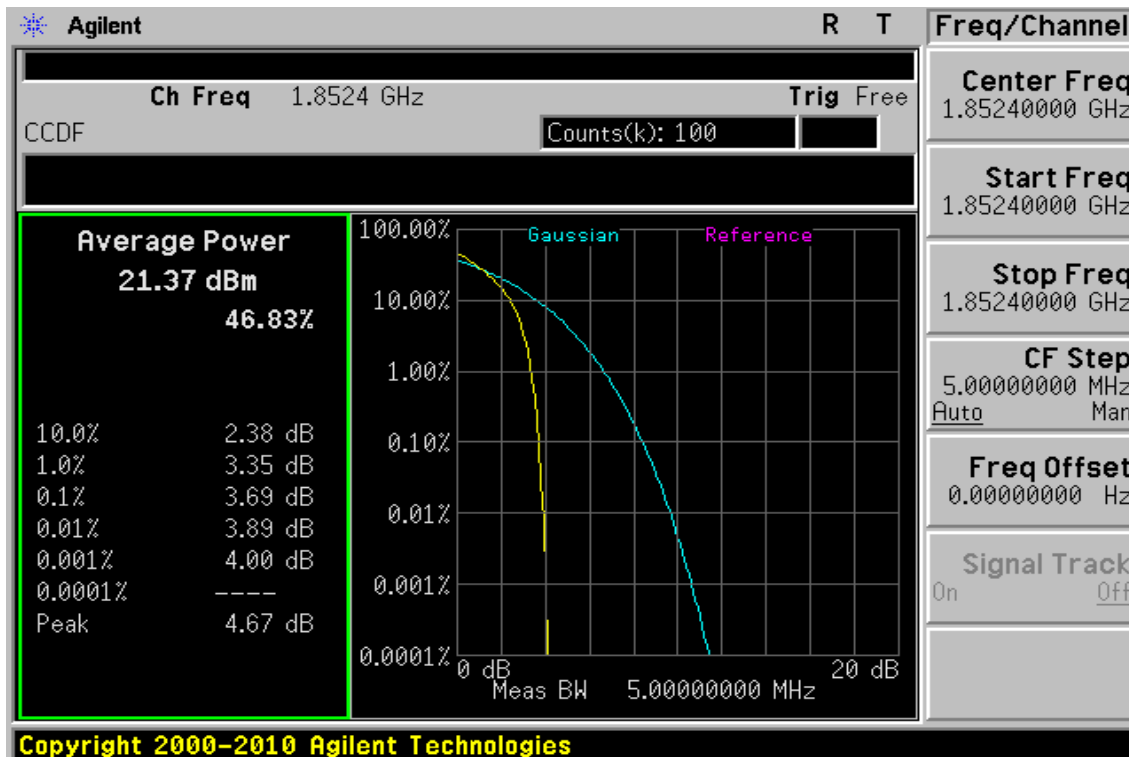


Figure 13-28: HSDPA Band II Channel Low



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Figure 13-29: HSDPA Band II Channel Mid

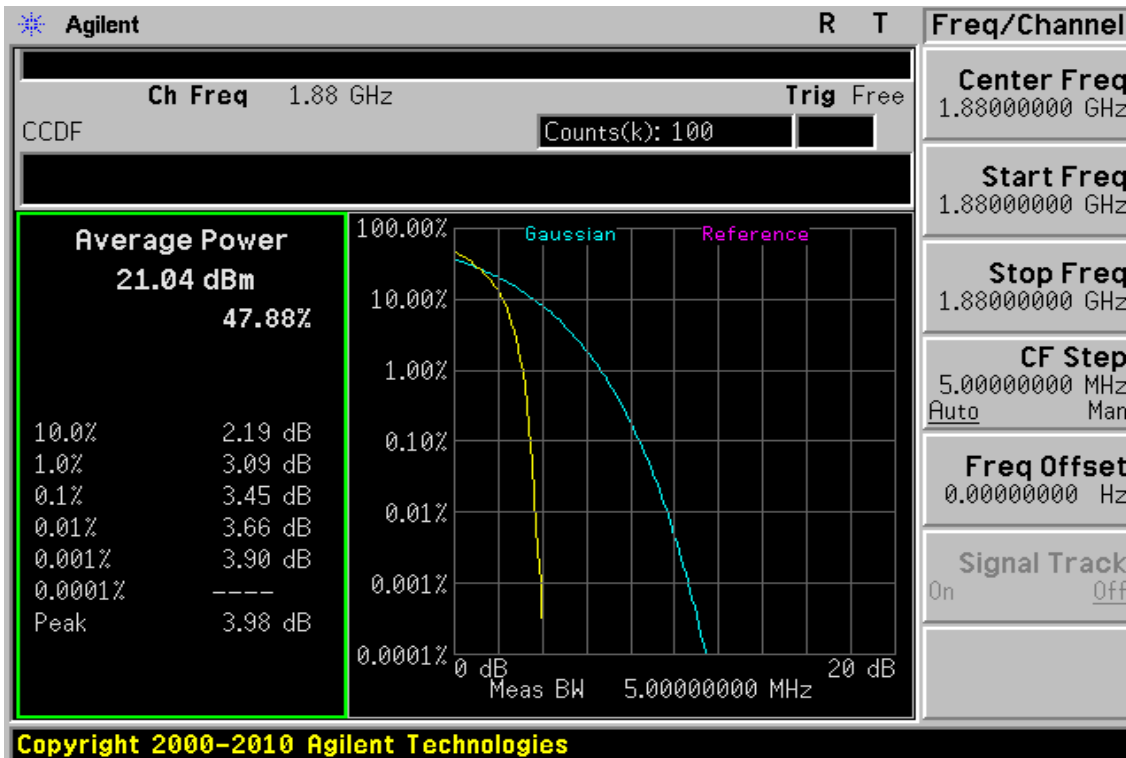
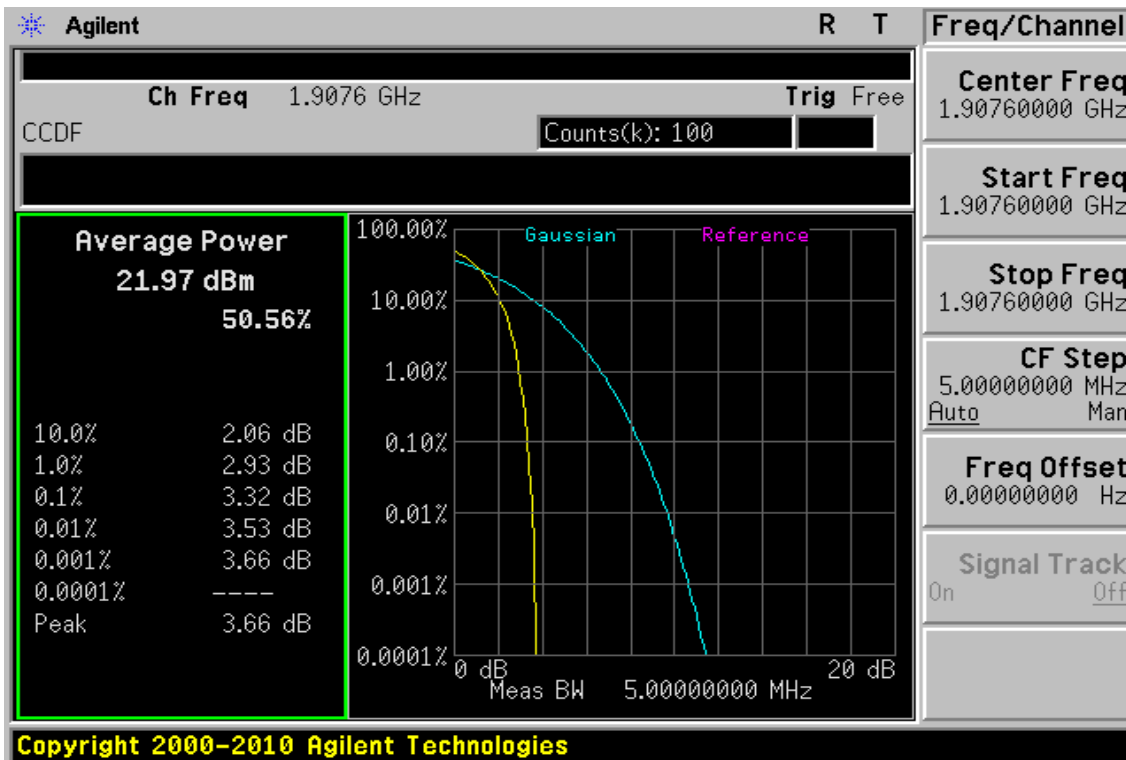


Figure 13-30: HSDPA Band II Channel High



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Figure 13-31: HSDPA Band IV Channel Low

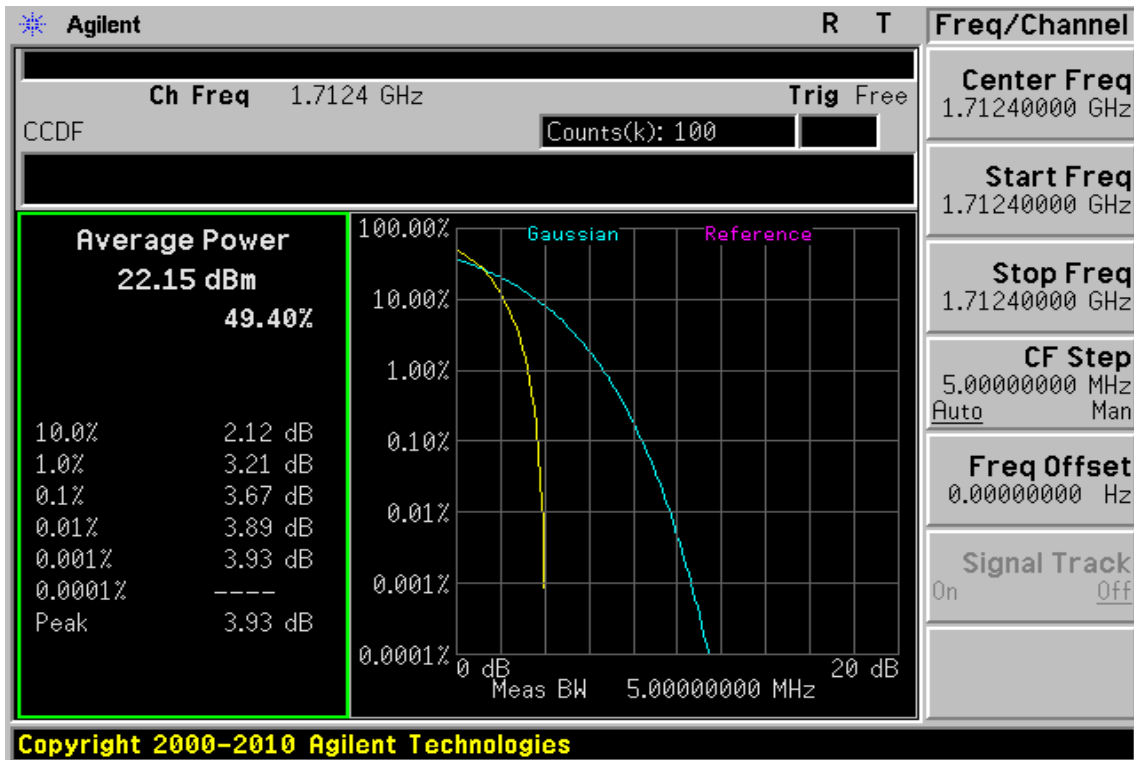
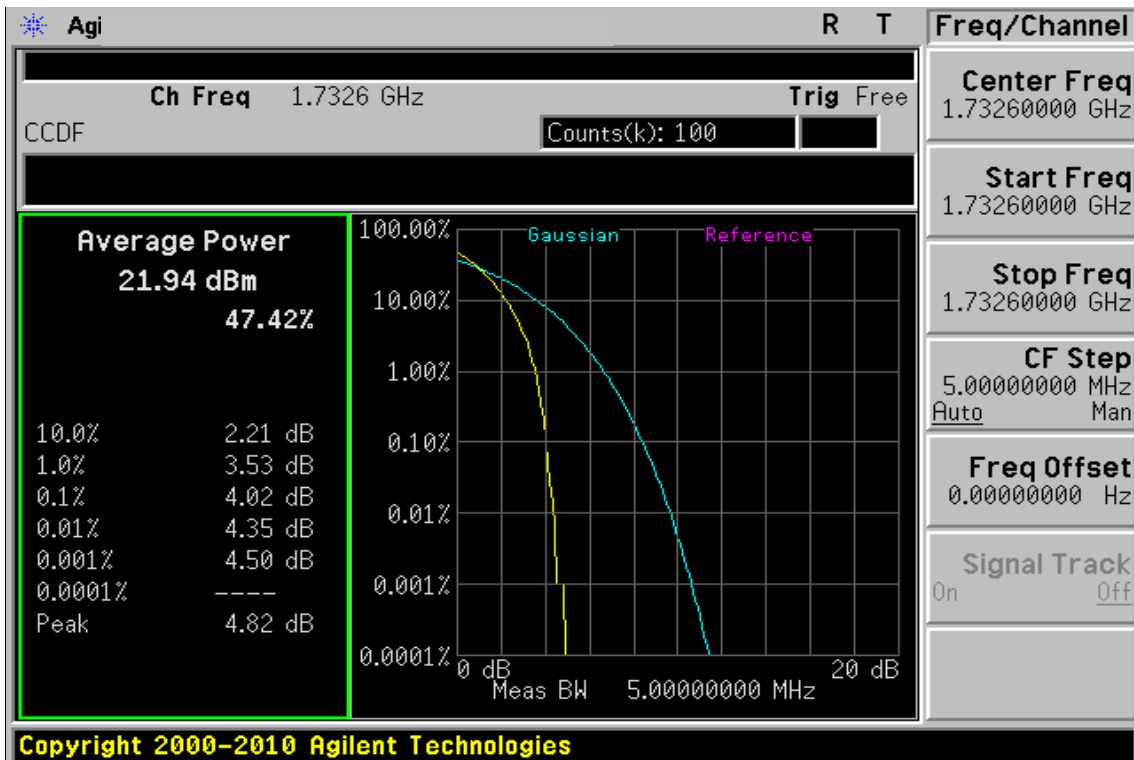


Figure 13-32: HSDPA Band IV Channel Mid



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Figure 13-33: HSDPA Band IV Channel High

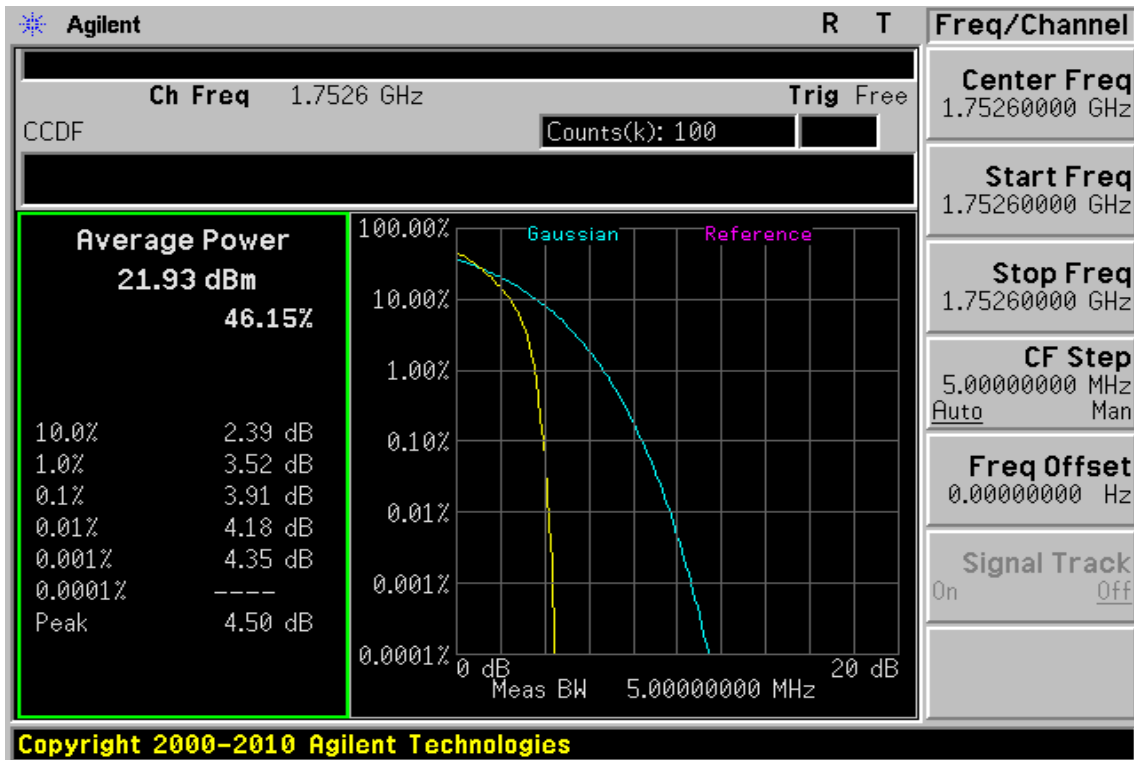
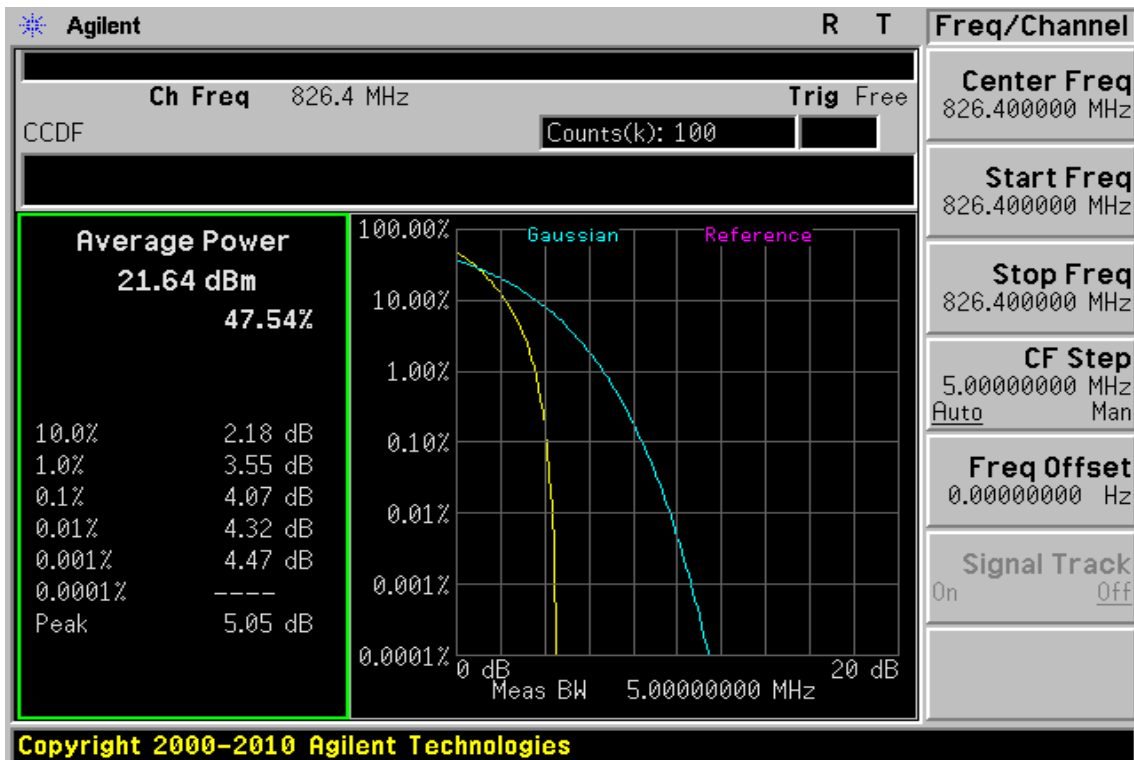


Figure 13-34: HSDPA Band V Channel Low



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Figure 13-35: HSDPA Band V Channel Mid

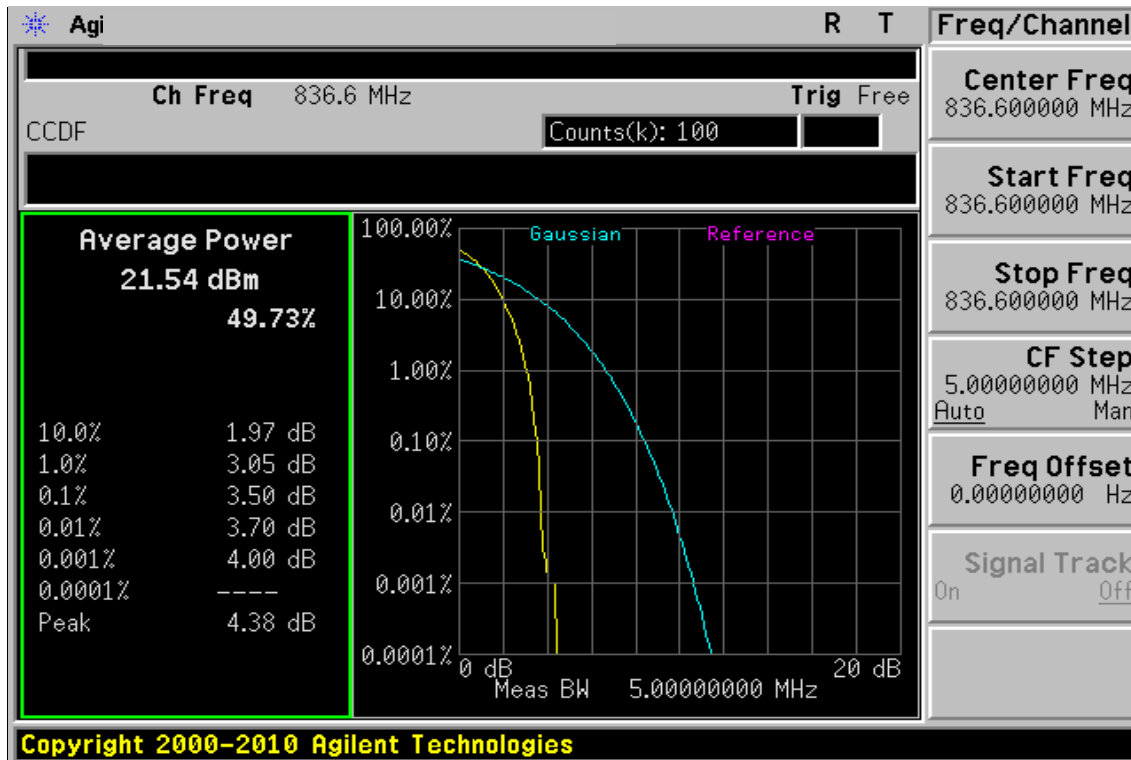
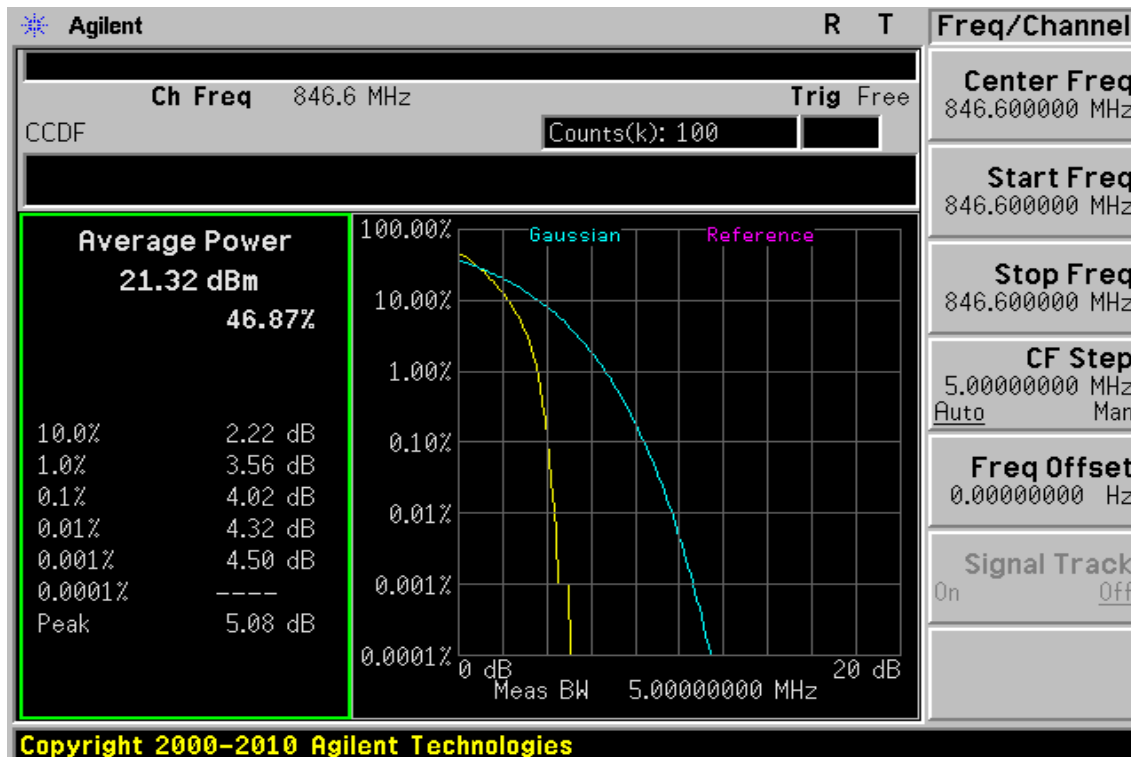


Figure 13-36: HSDPA Band V Channel High



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Figure 13-37: HSUPA Band II Channel Low

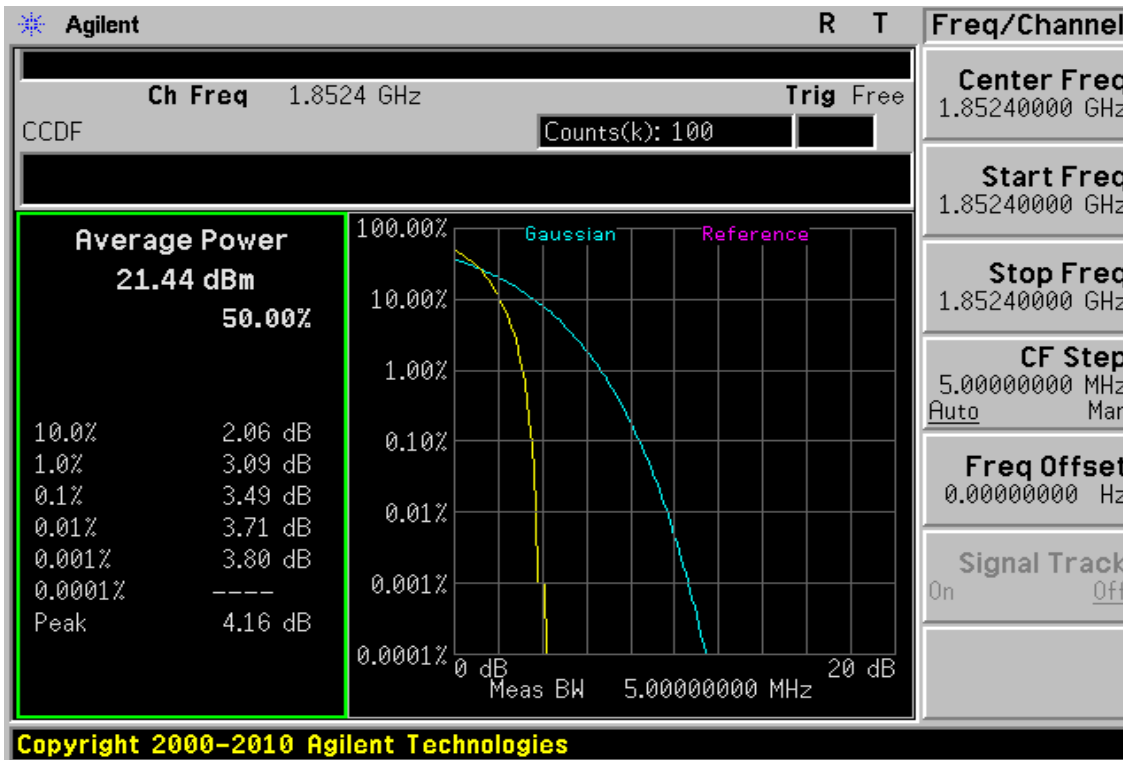
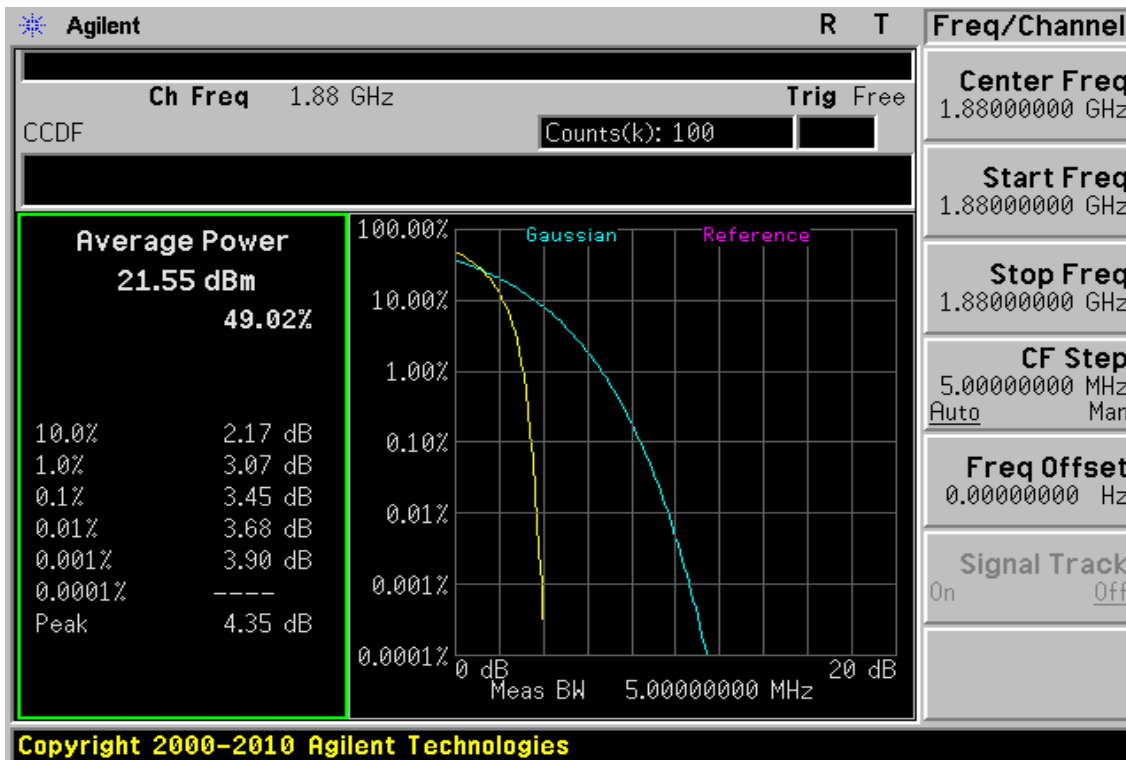


Figure 13-38: HSUPA Band II Channel Mid



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Figure 13-39: HSUPA Band II Channel High

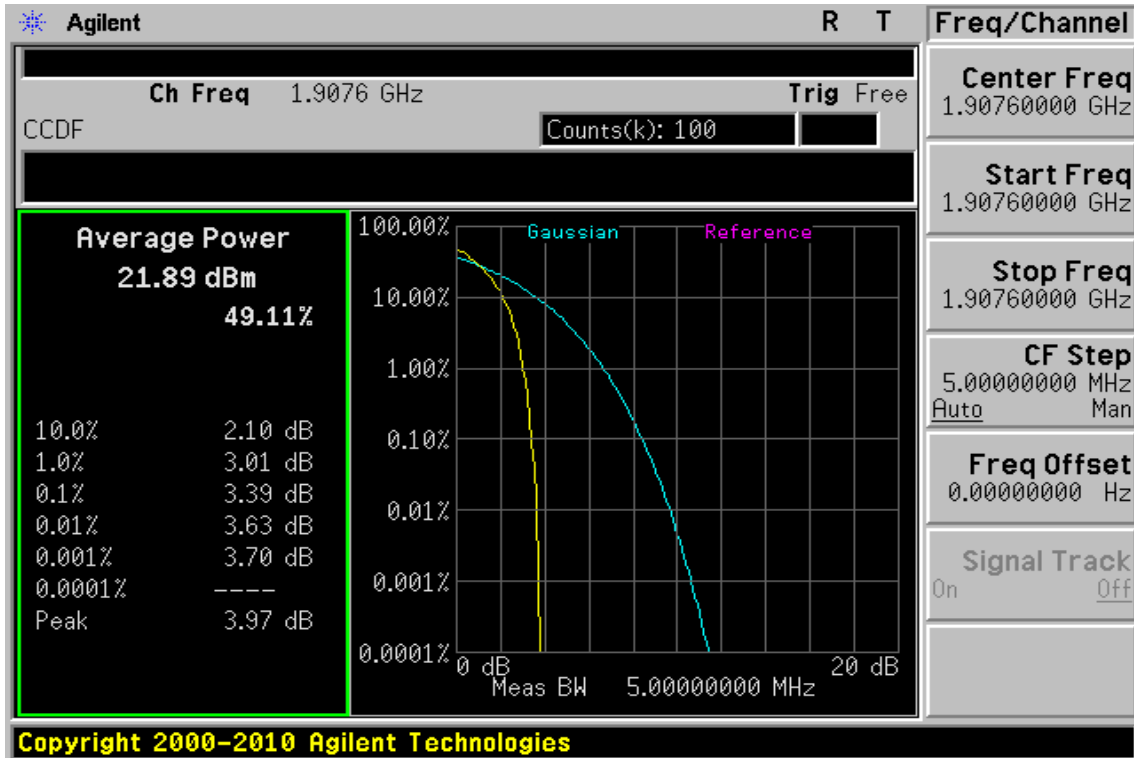
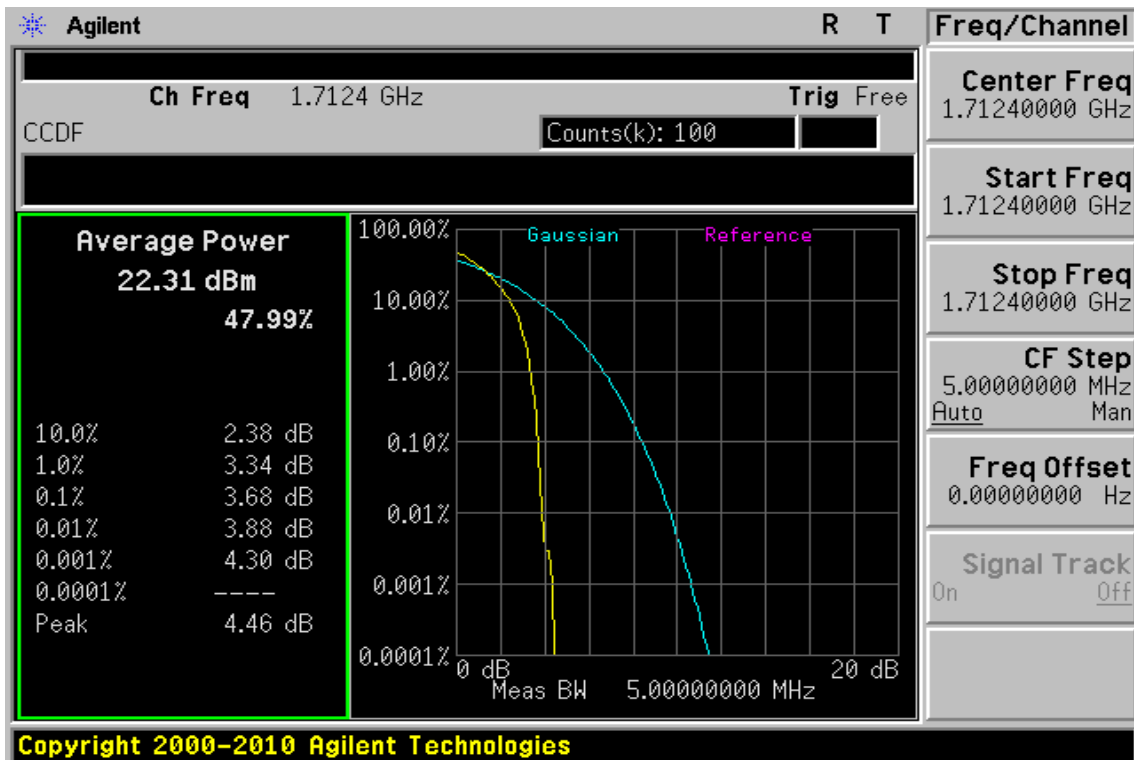


Figure 13-40: HSUPA Band IV Channel Low



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Figure 13-41: HSUPA Band IV Channel Mid

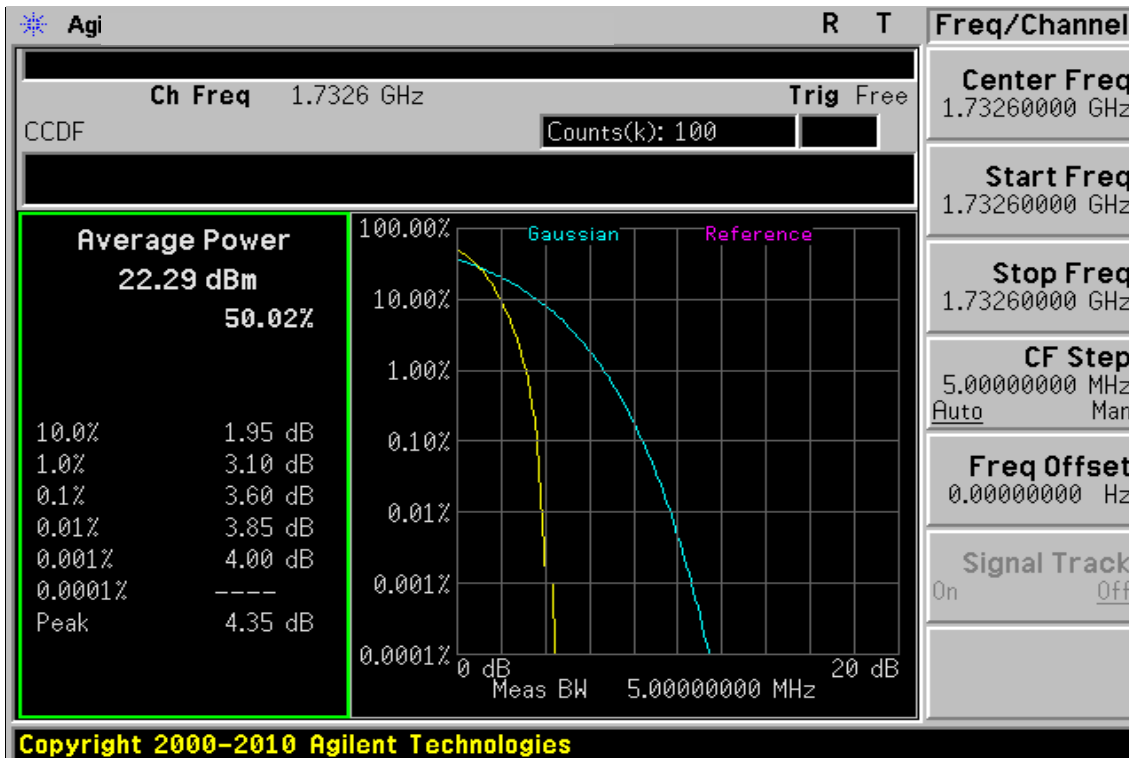
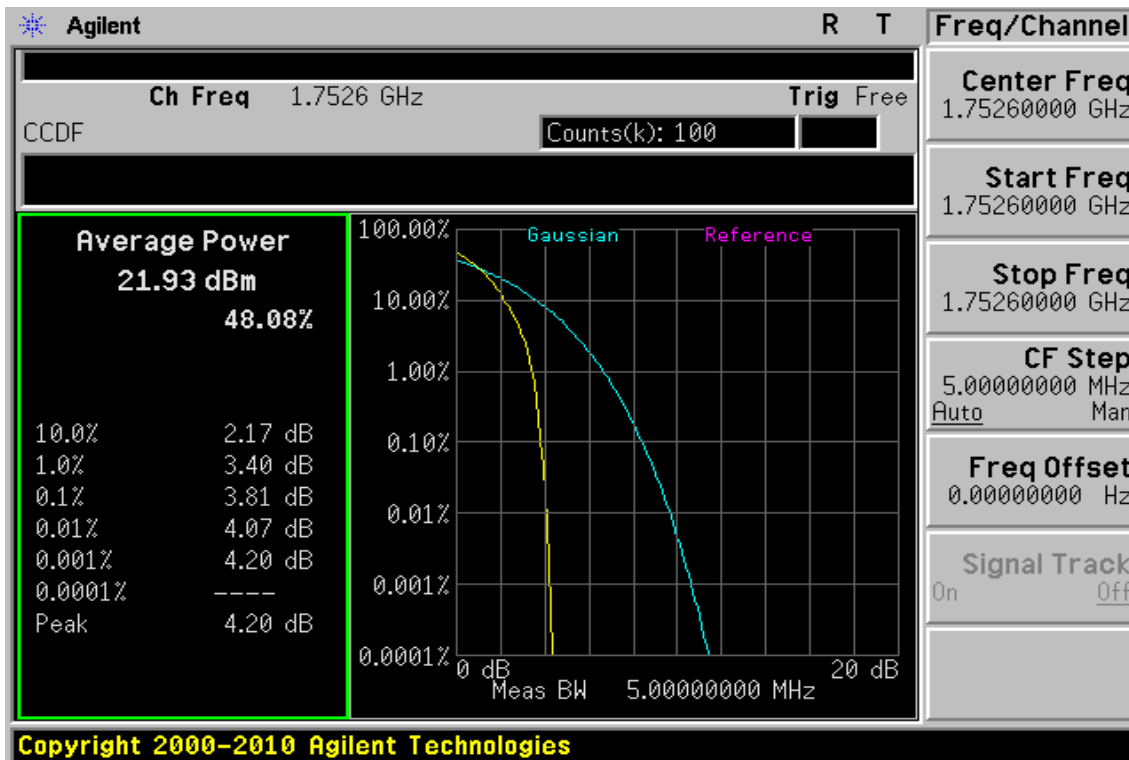


Figure 13-42: HSUPA Band IV Channel High



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Figure 13-43: HSUPA Band V Channel Low

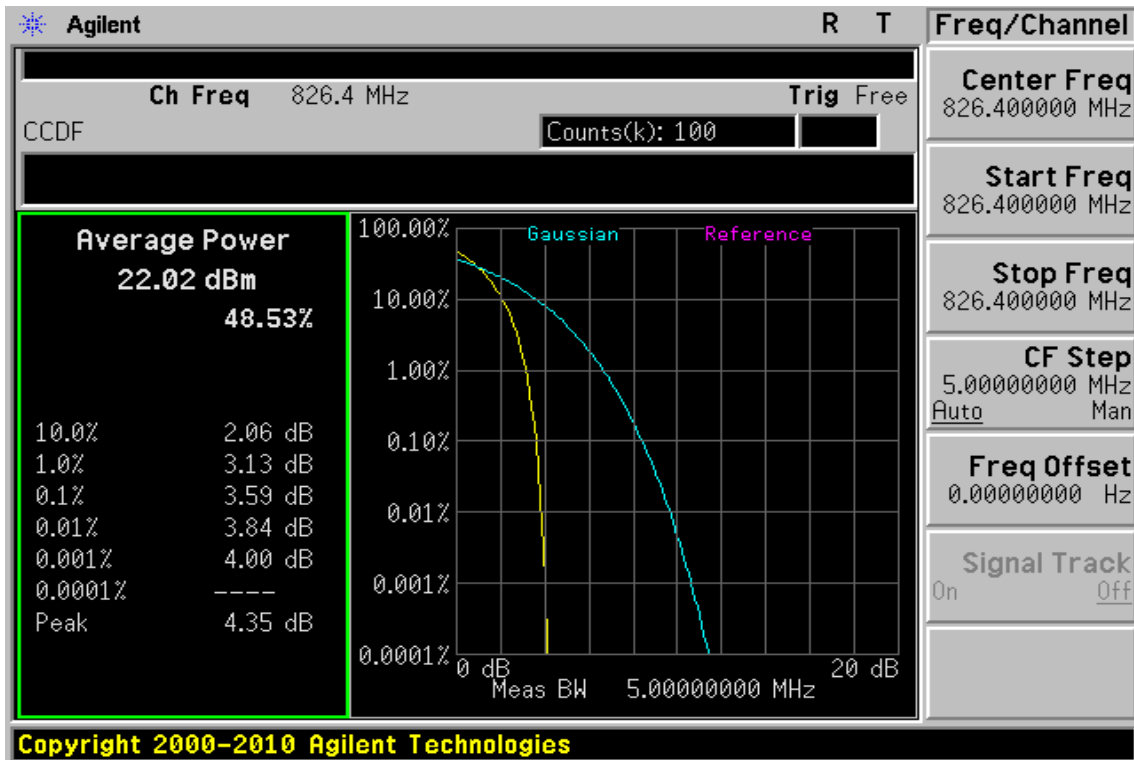
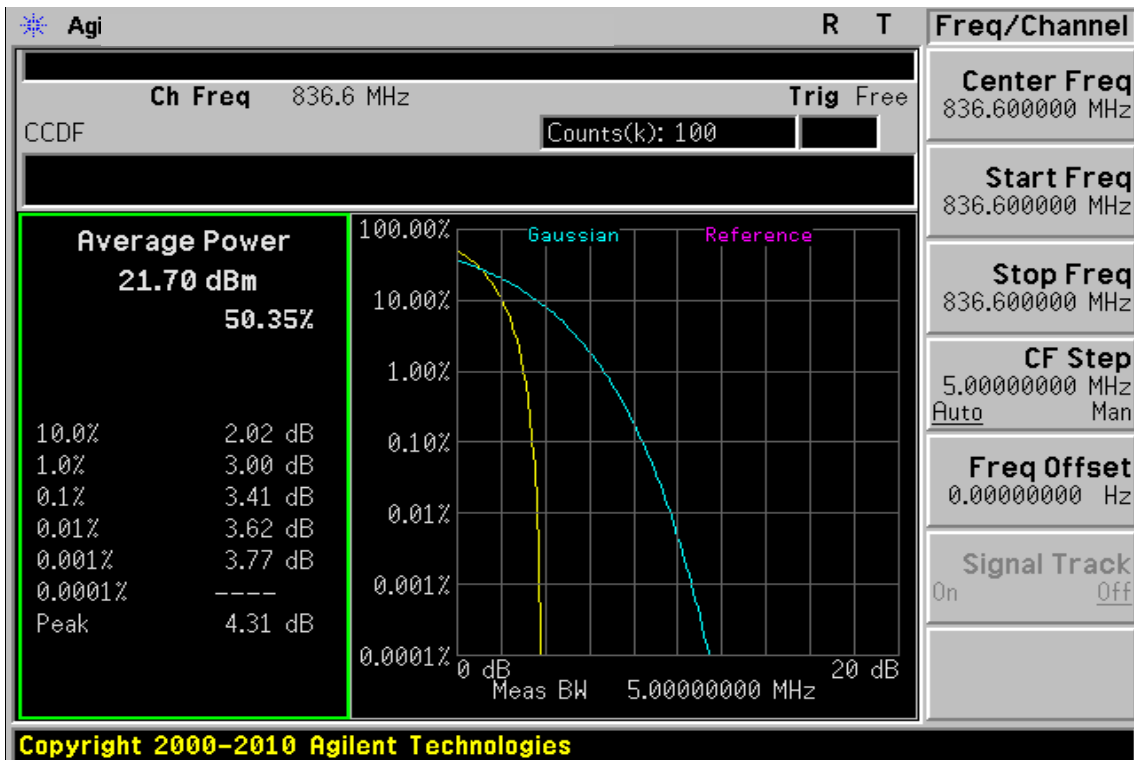


Figure 13-44: HSUPA Band V Channel Mid



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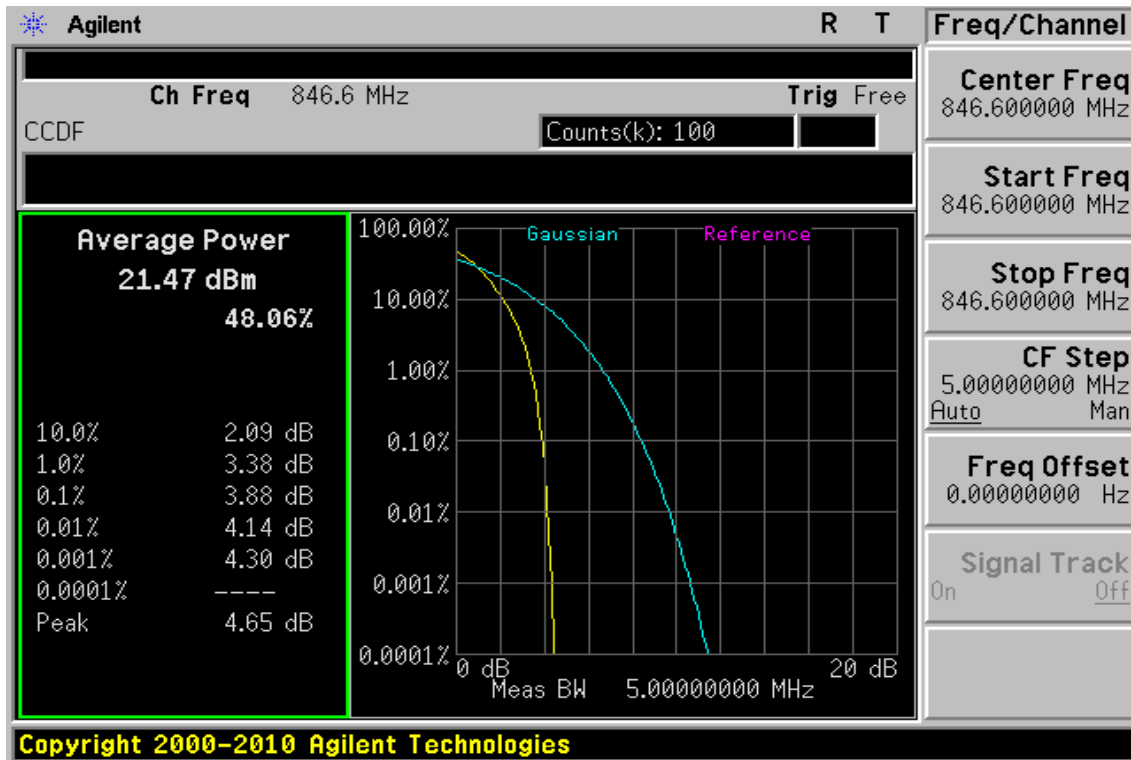
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Figure 13-45: HSUPA Band V Channel High



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Figure 13-46: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low

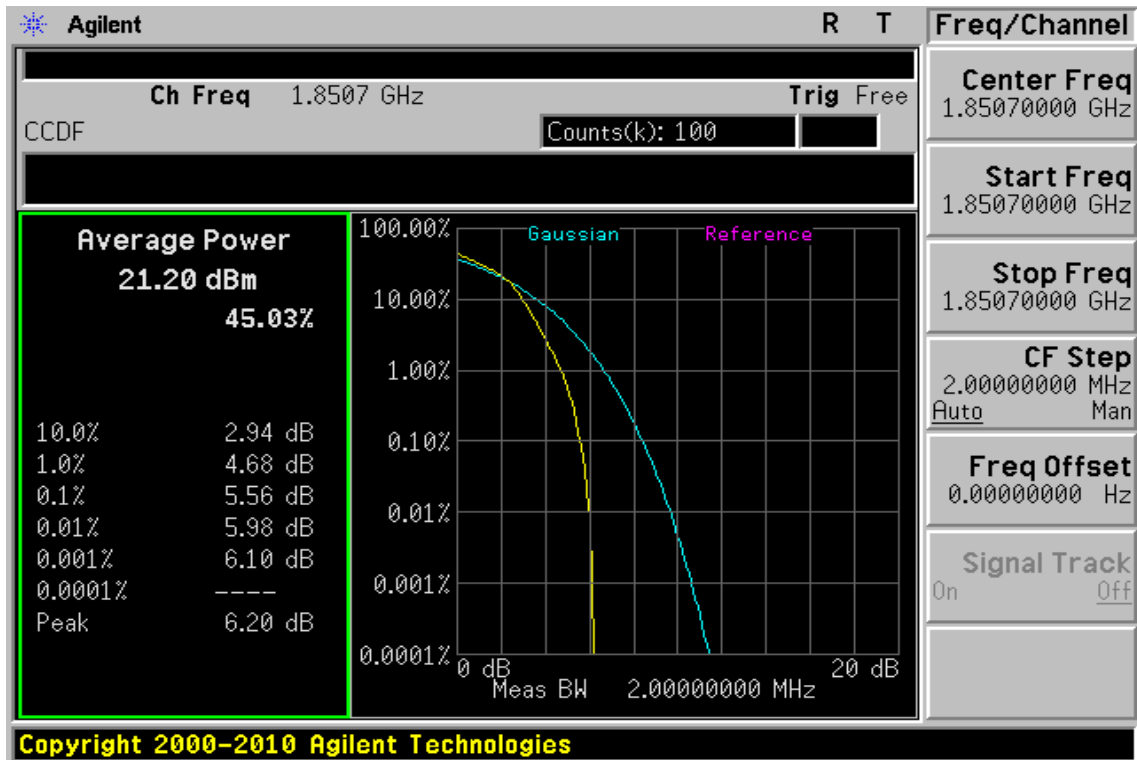
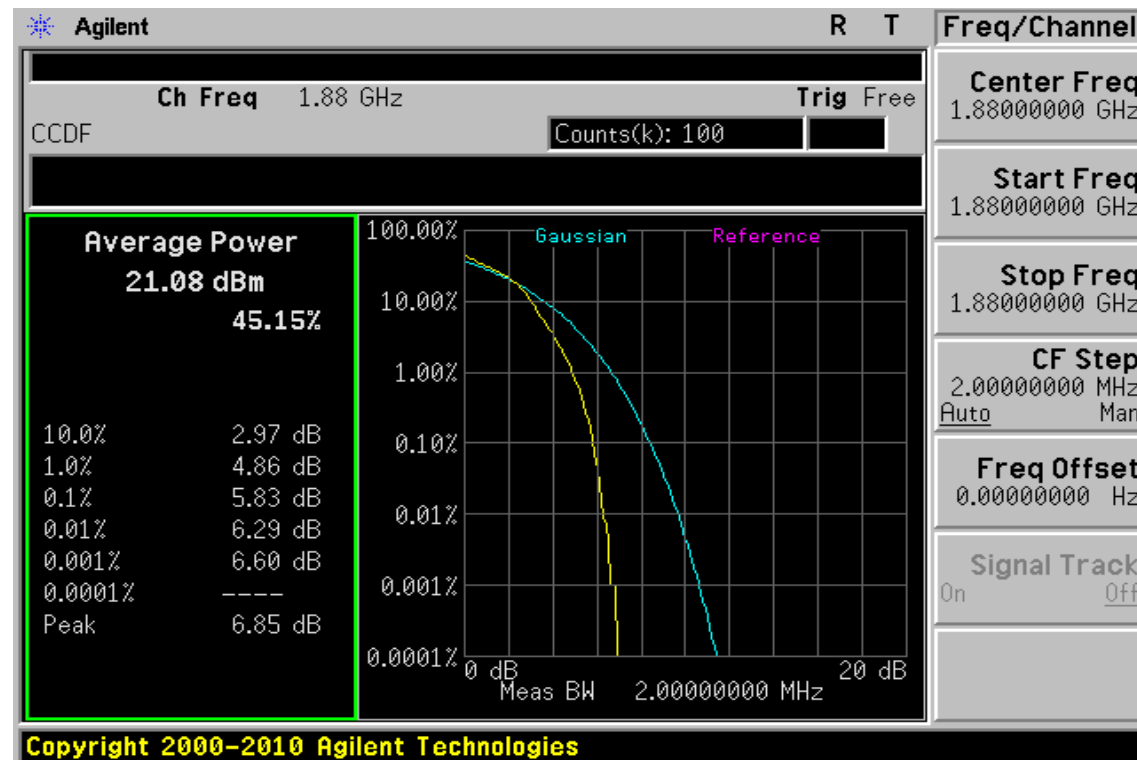


Figure 13-47: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-48: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High

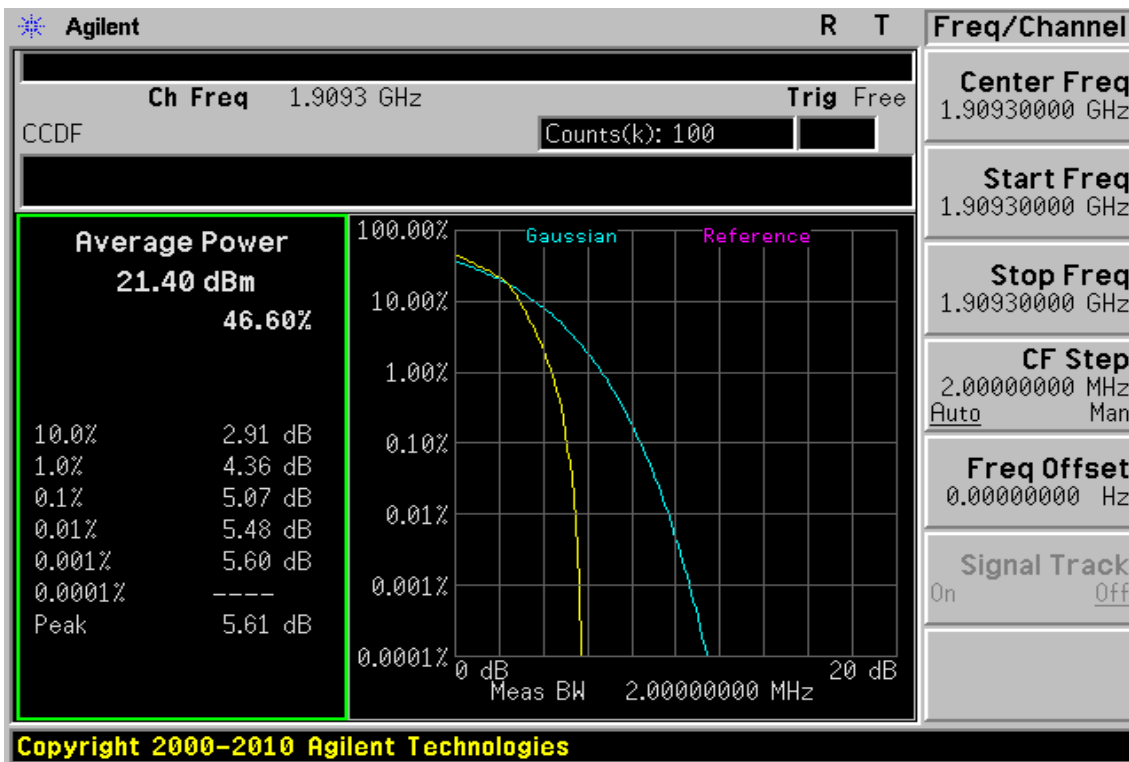
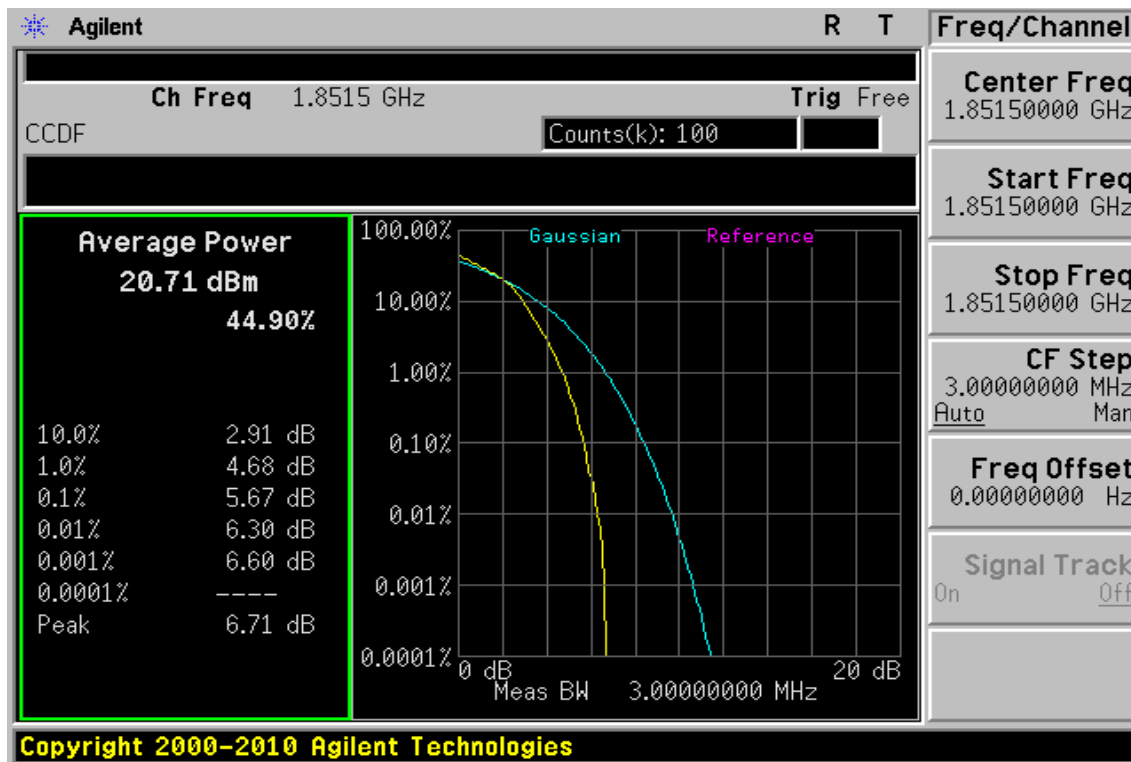


Figure 13-49: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-50: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid

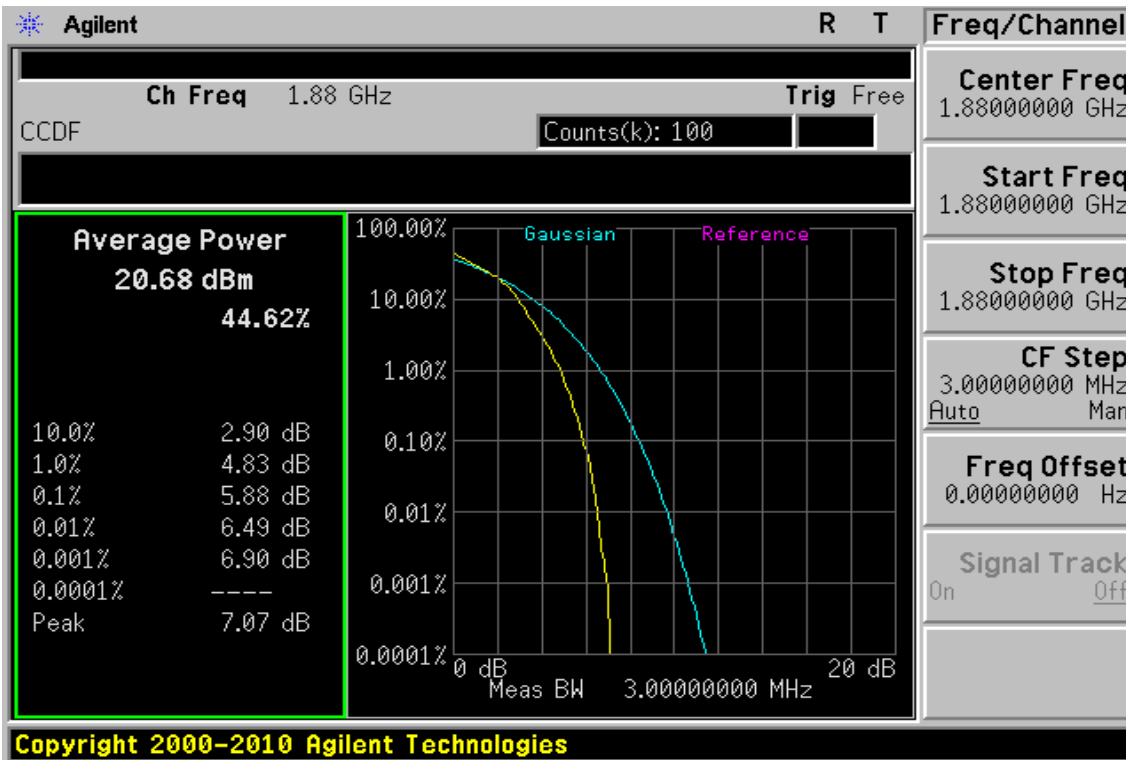
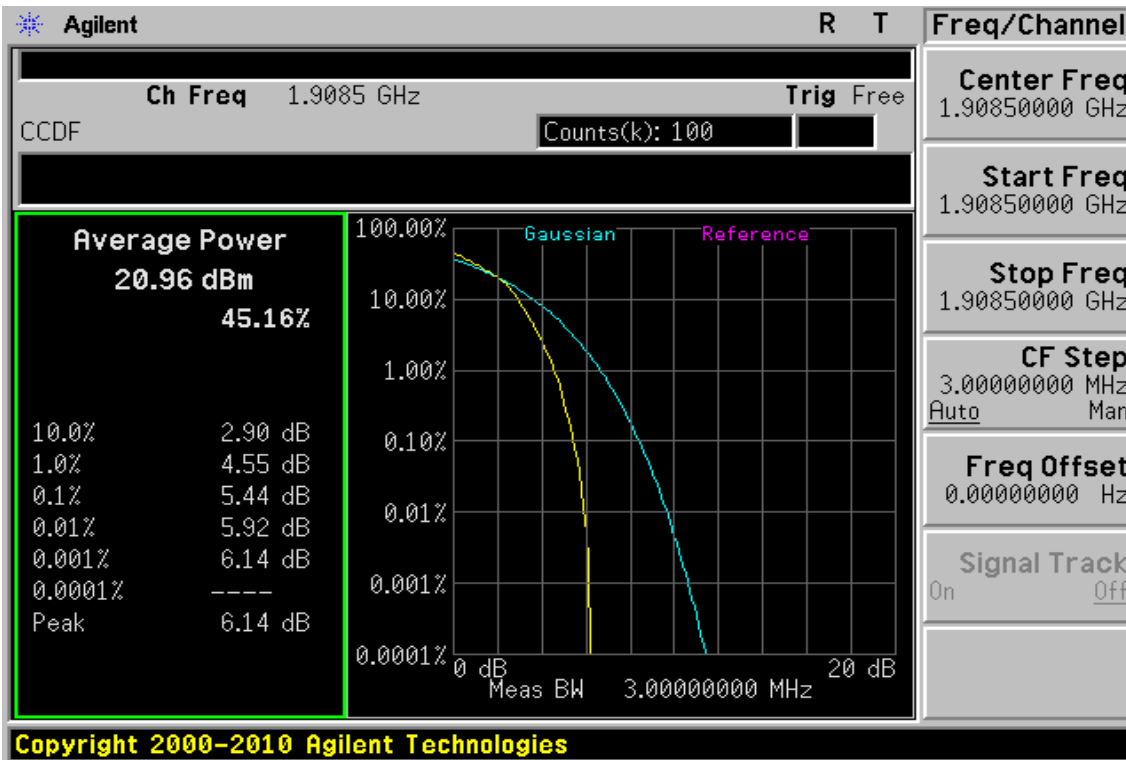


Figure 13-51: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-52: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low

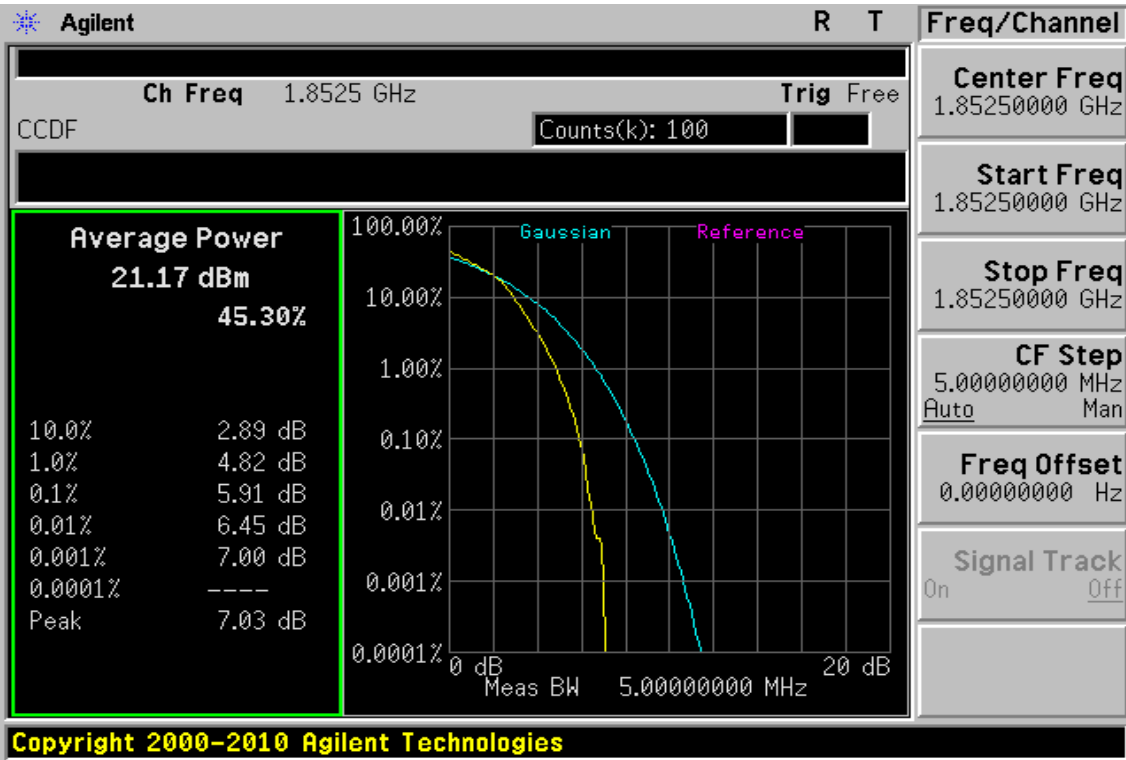
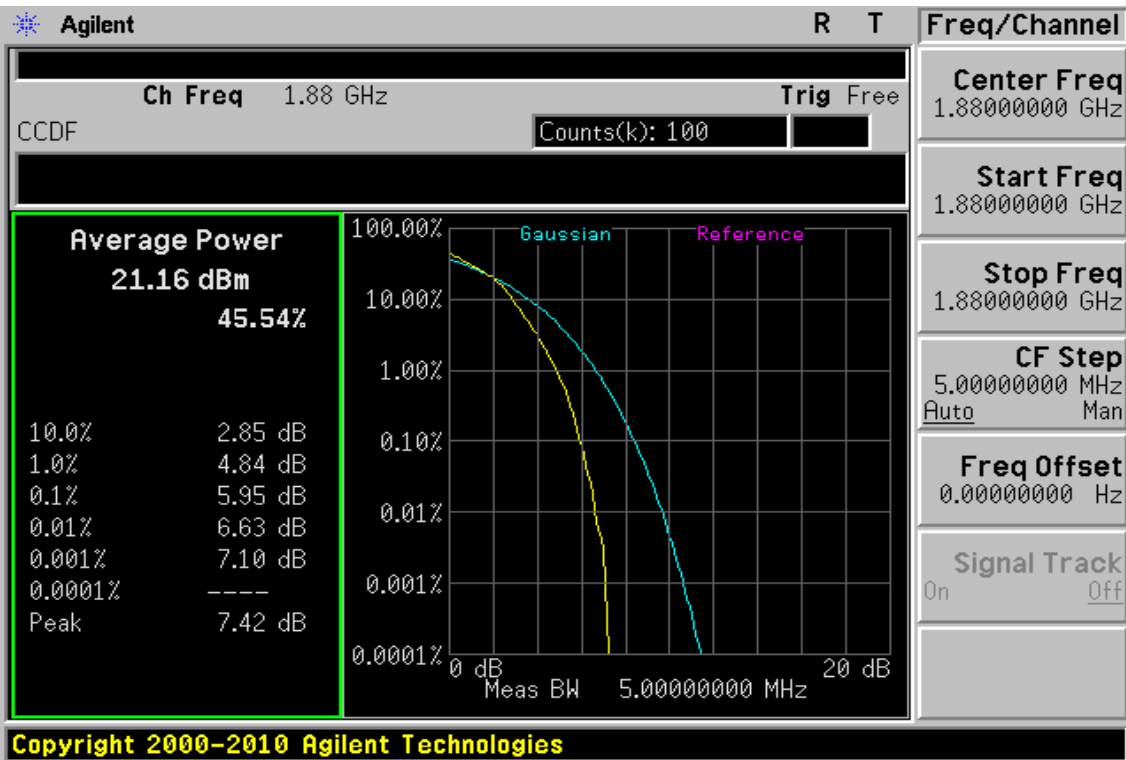


Figure 13-53: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-54: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High

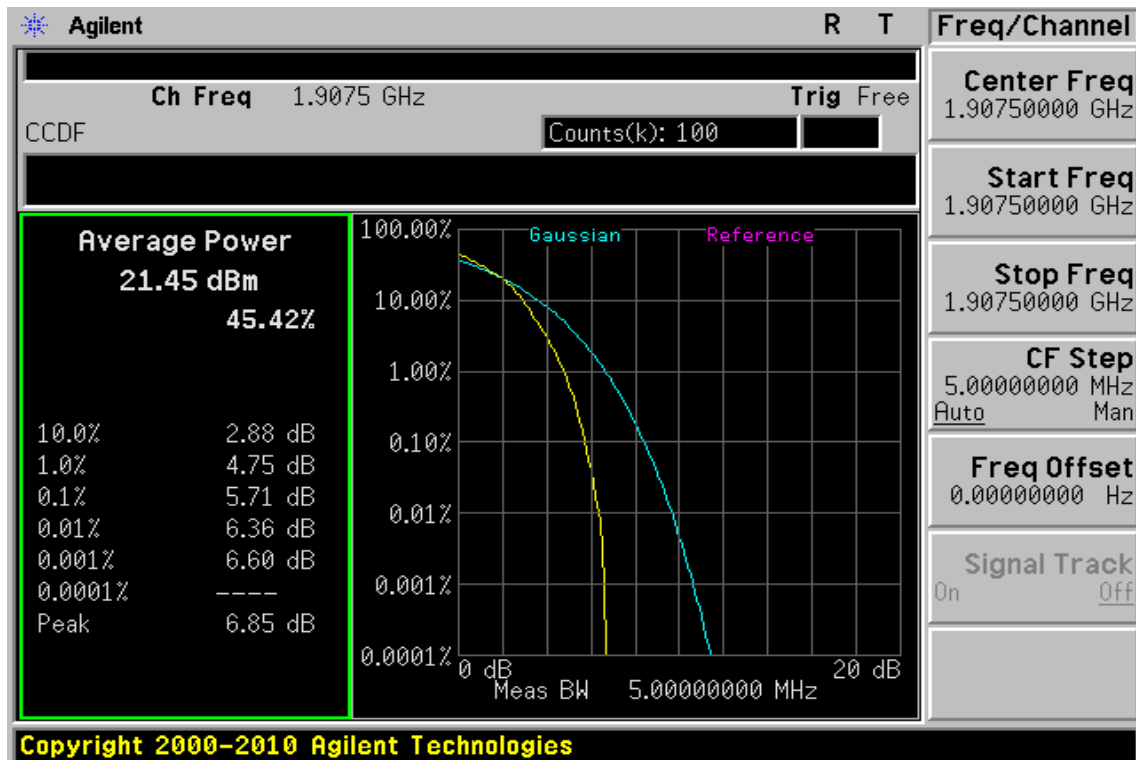
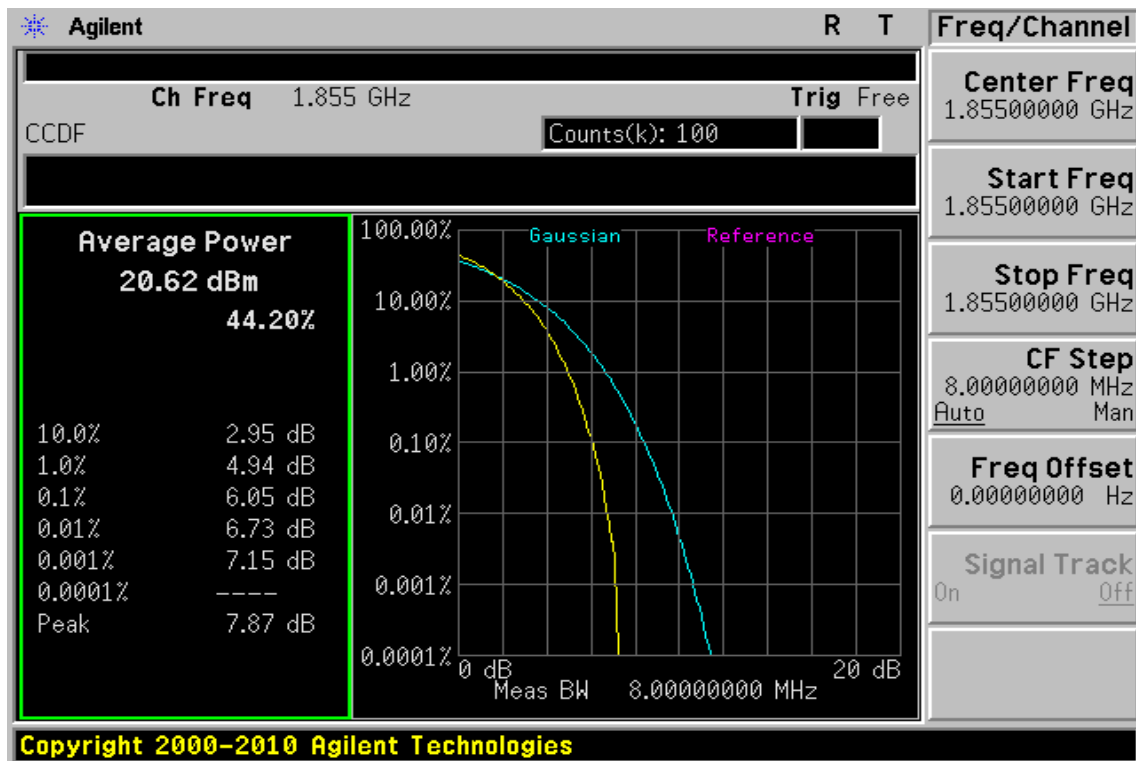


Figure 13-55: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-56: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid

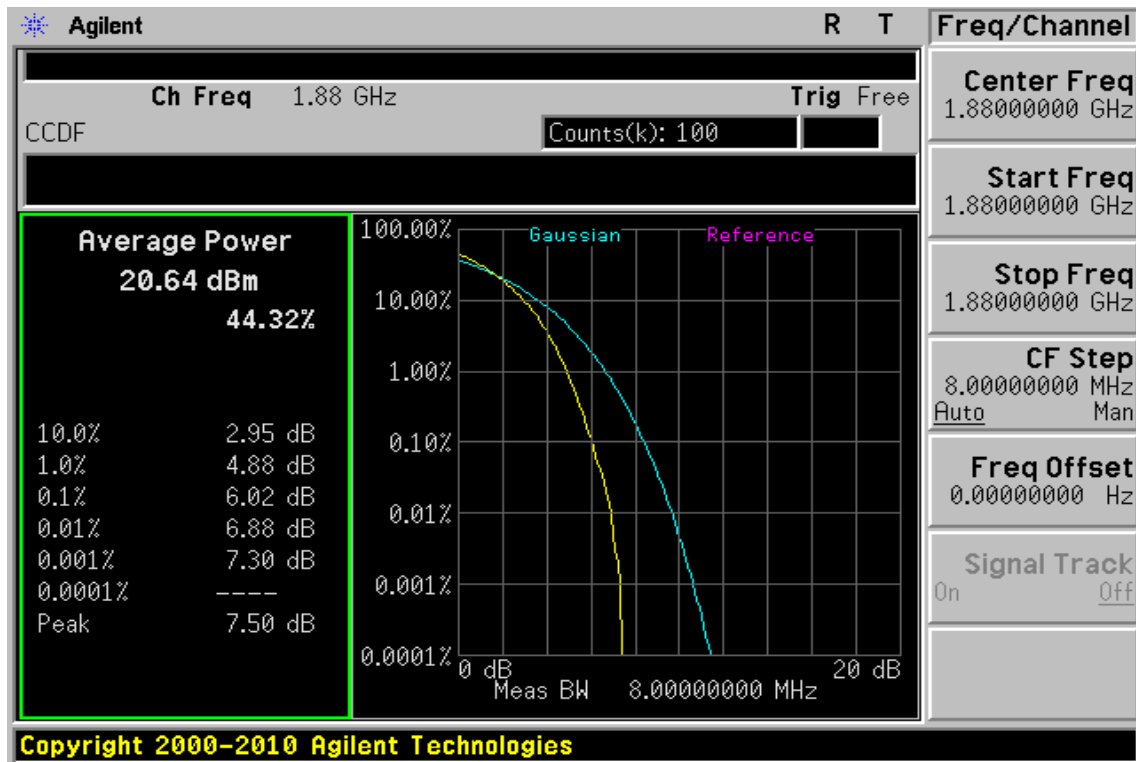
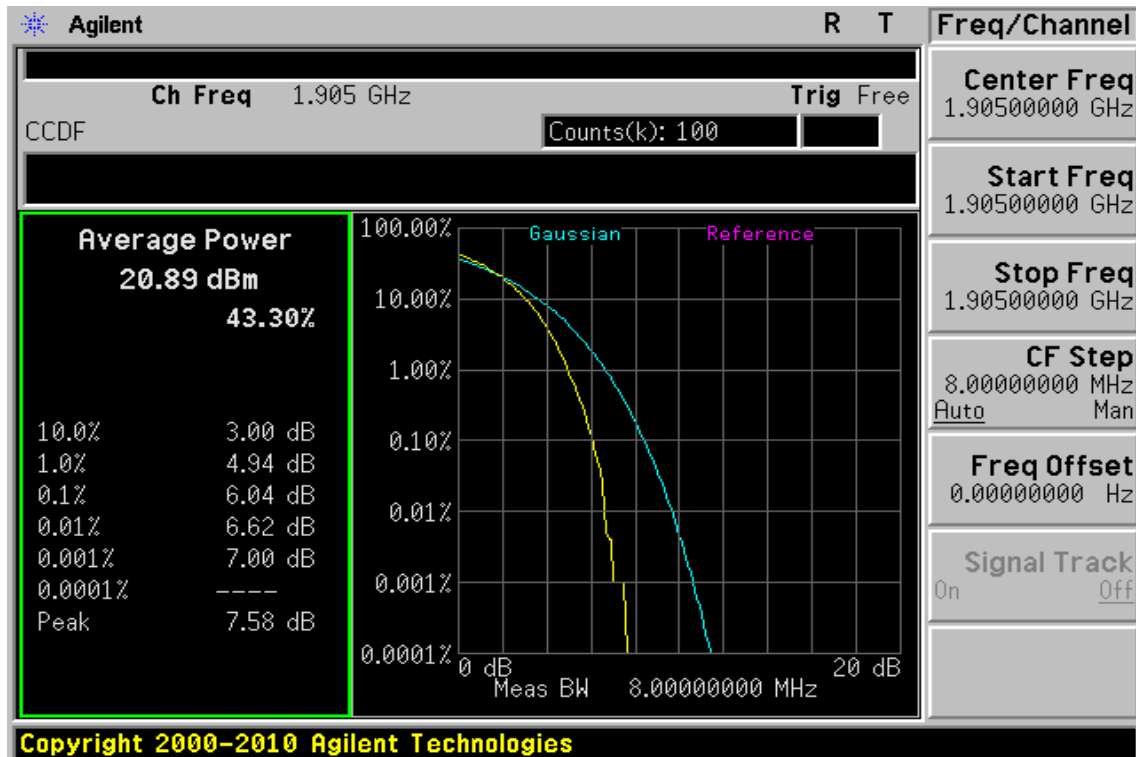


Figure 13-57: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-58: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low

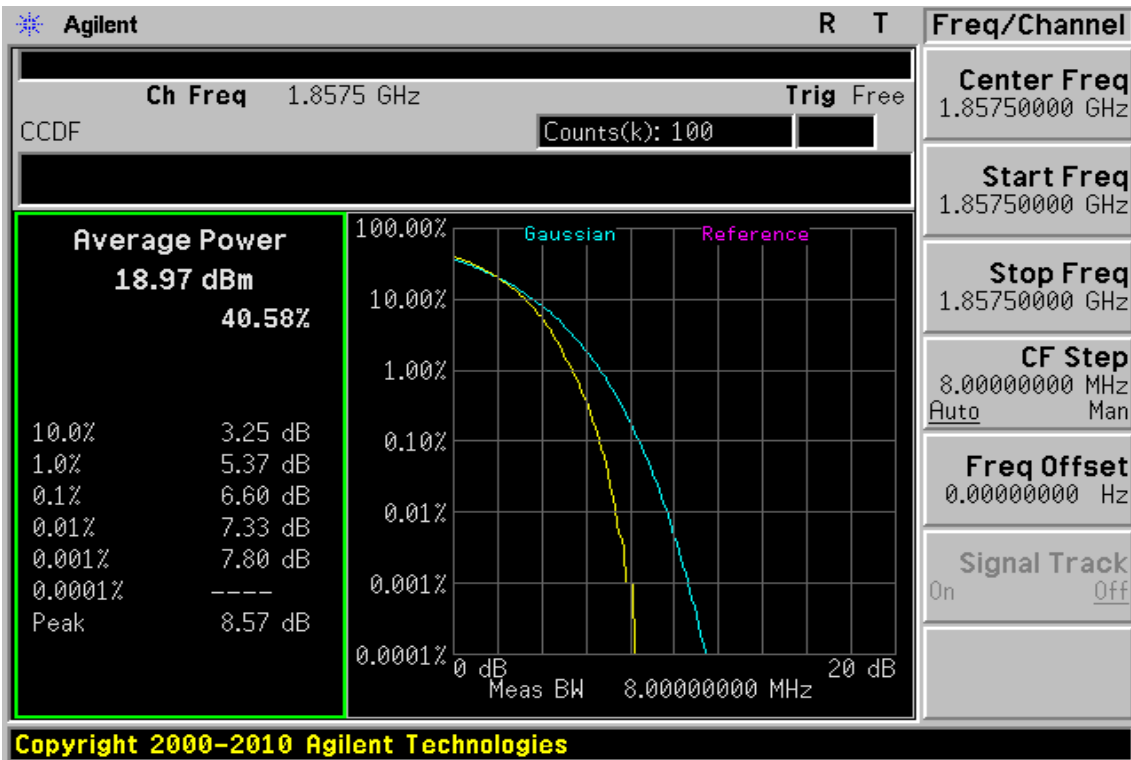
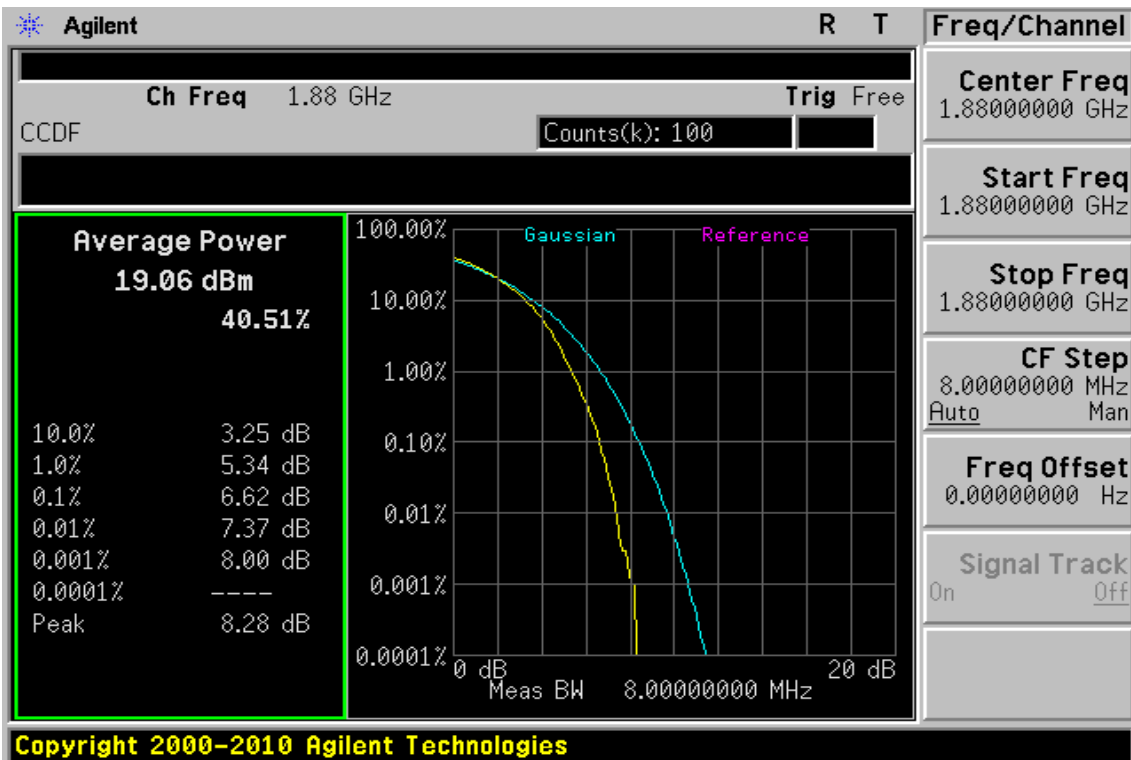


Figure 13-59: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-60: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High

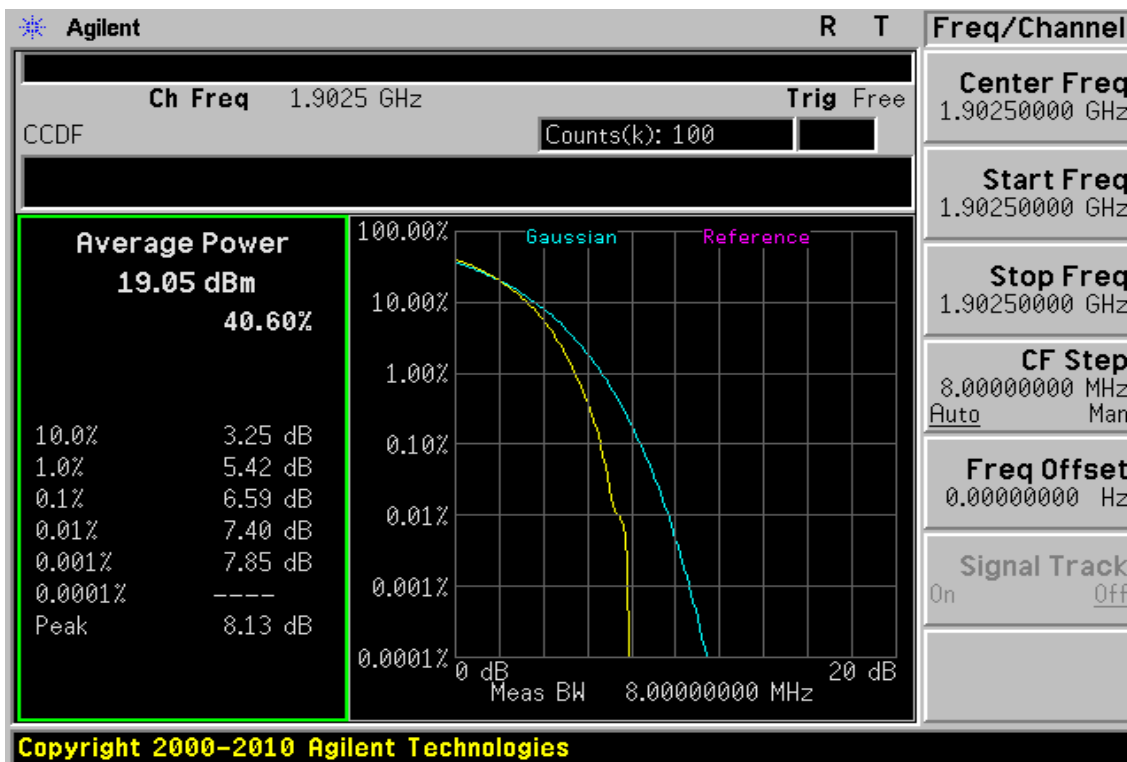
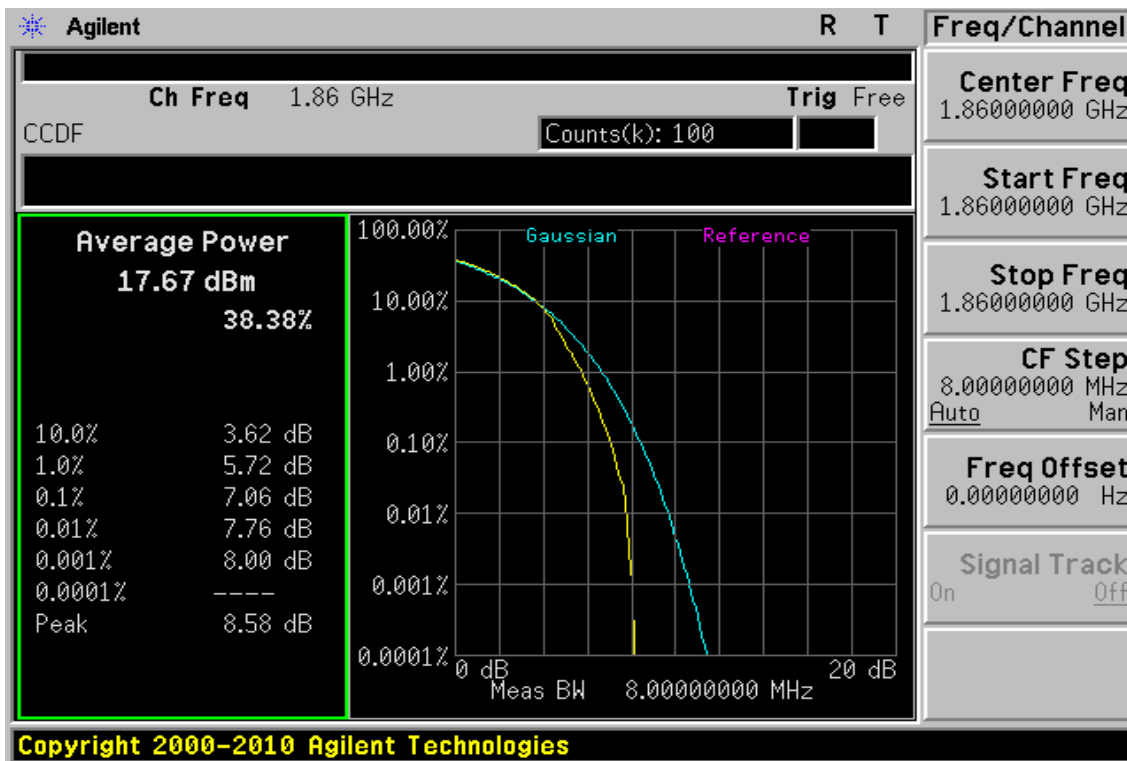


Figure 13-61: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-62: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid

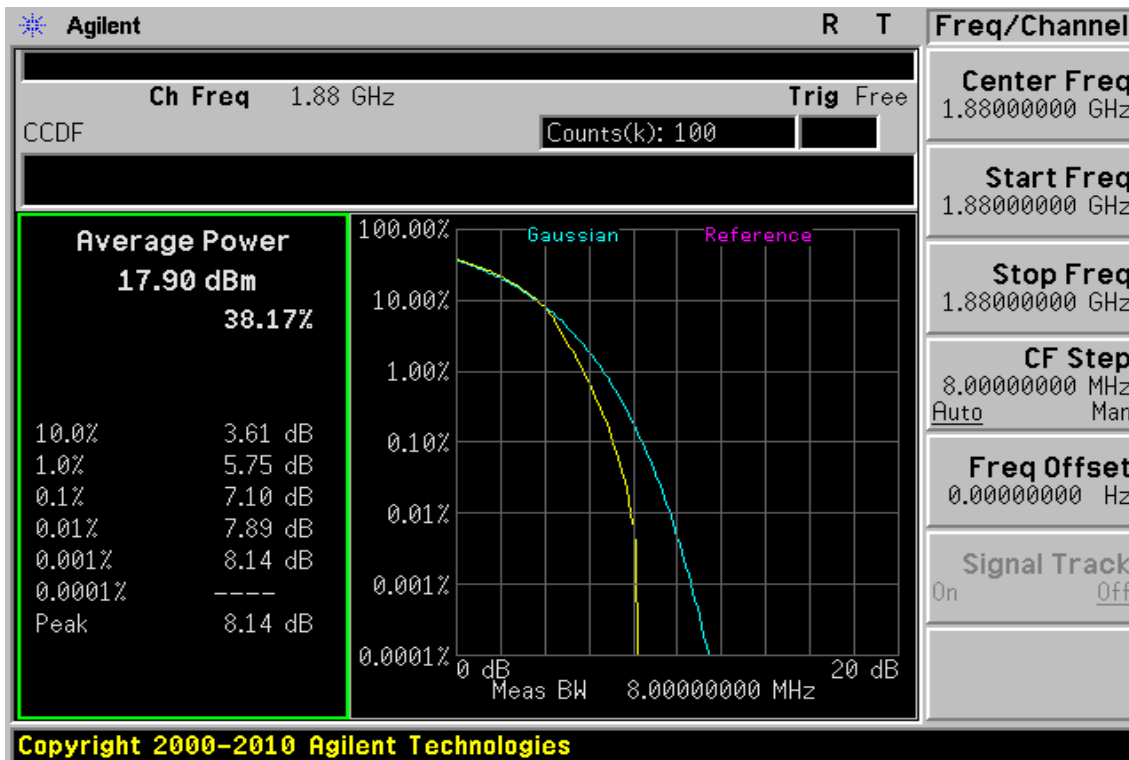
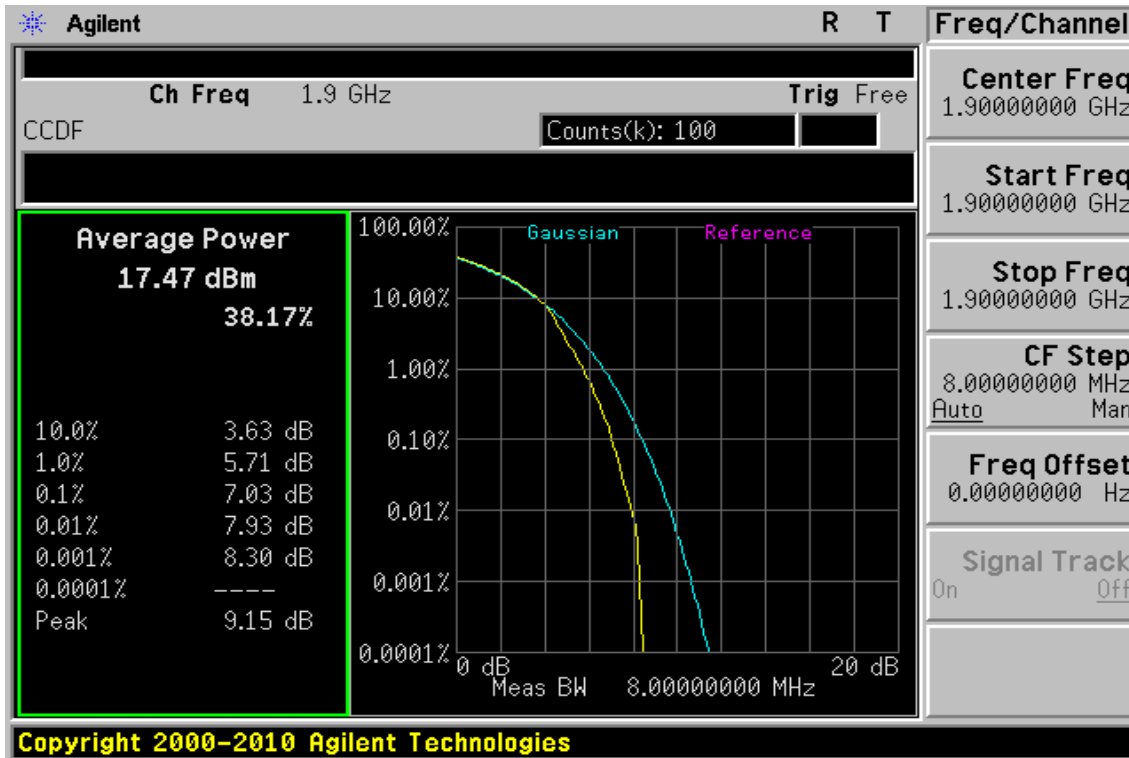


Figure 13-63: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-64: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low

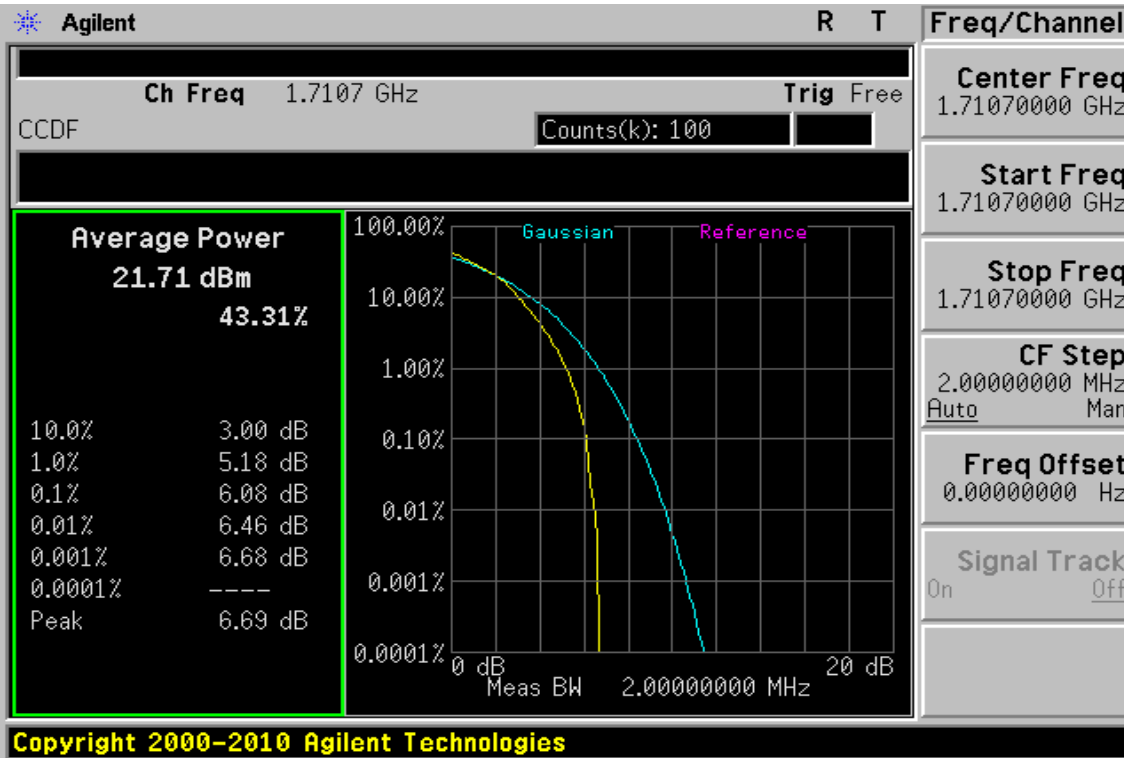
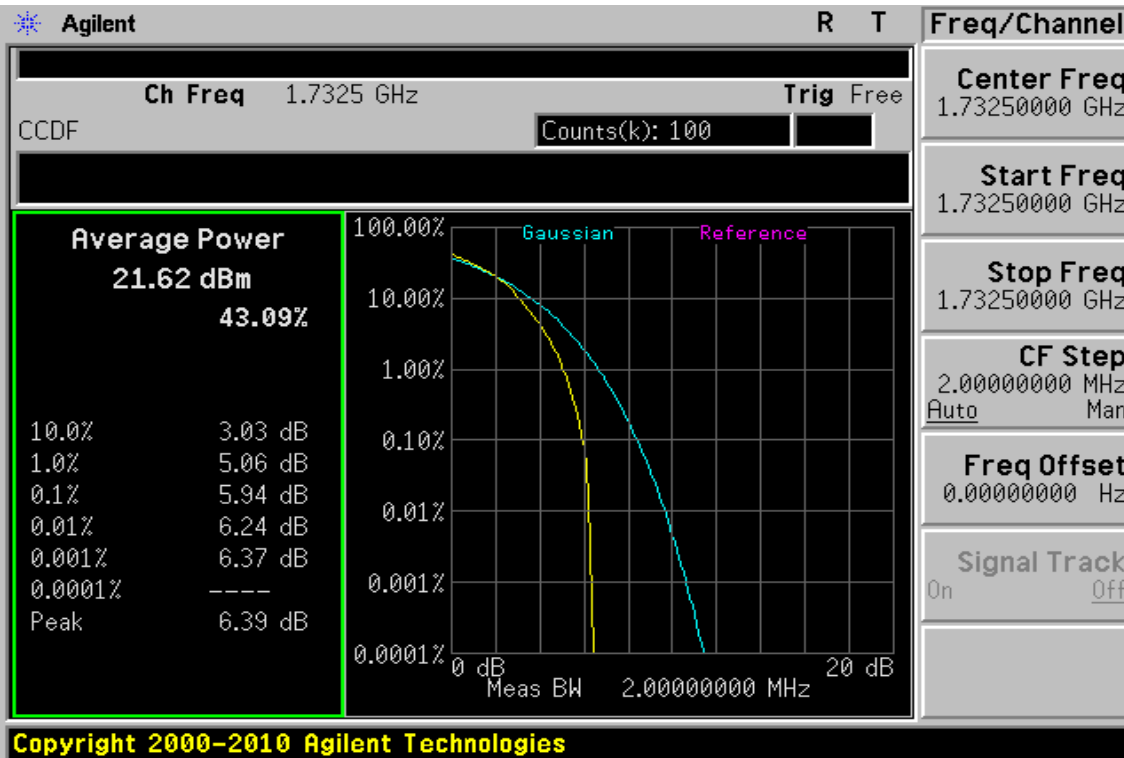


Figure 13-65: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-66: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High

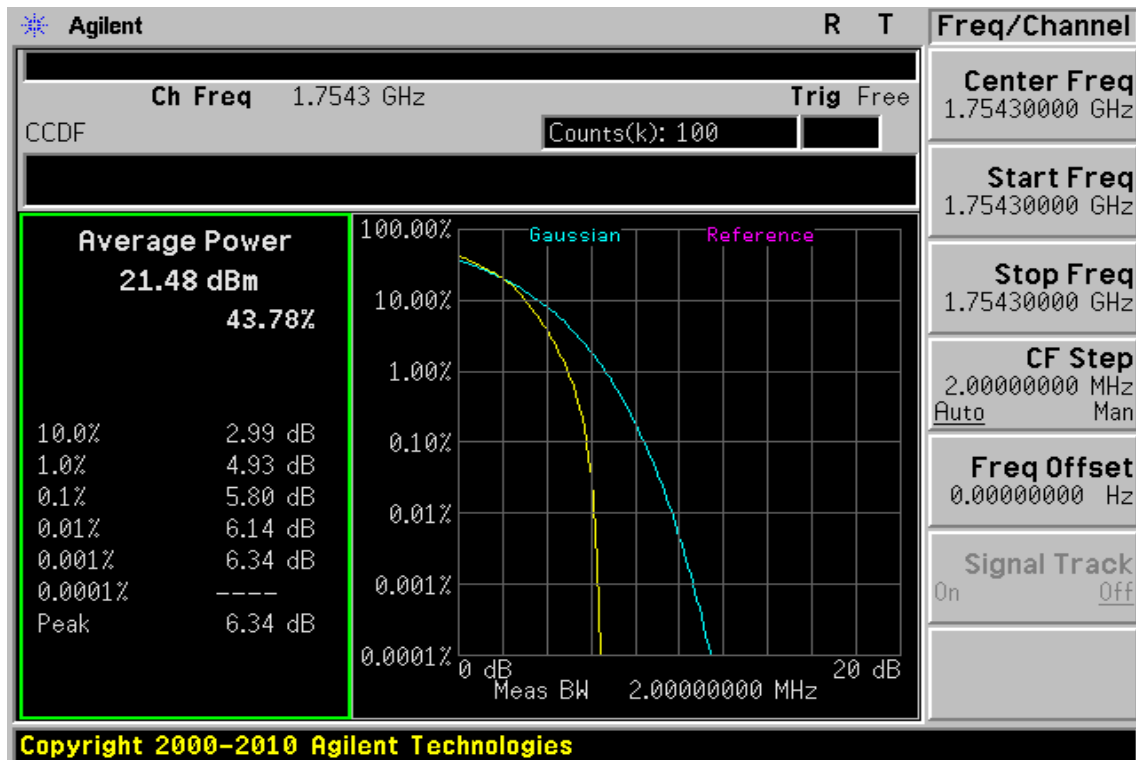
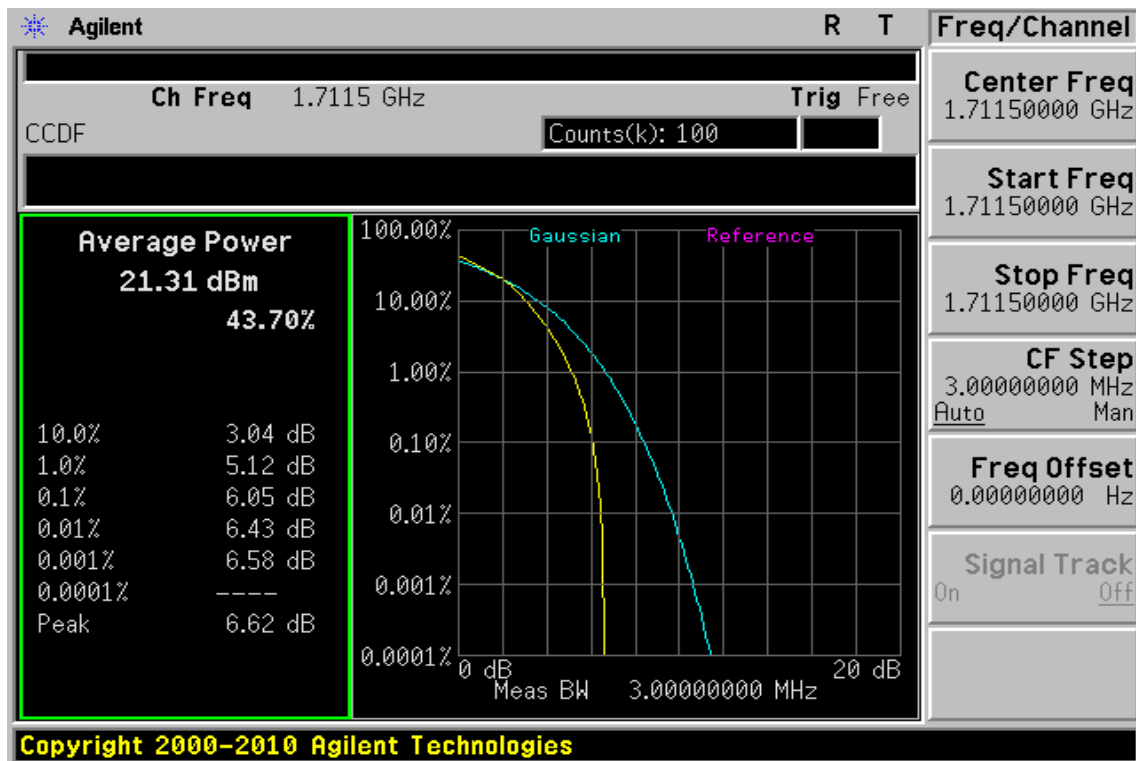


Figure 13-67: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-68: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid

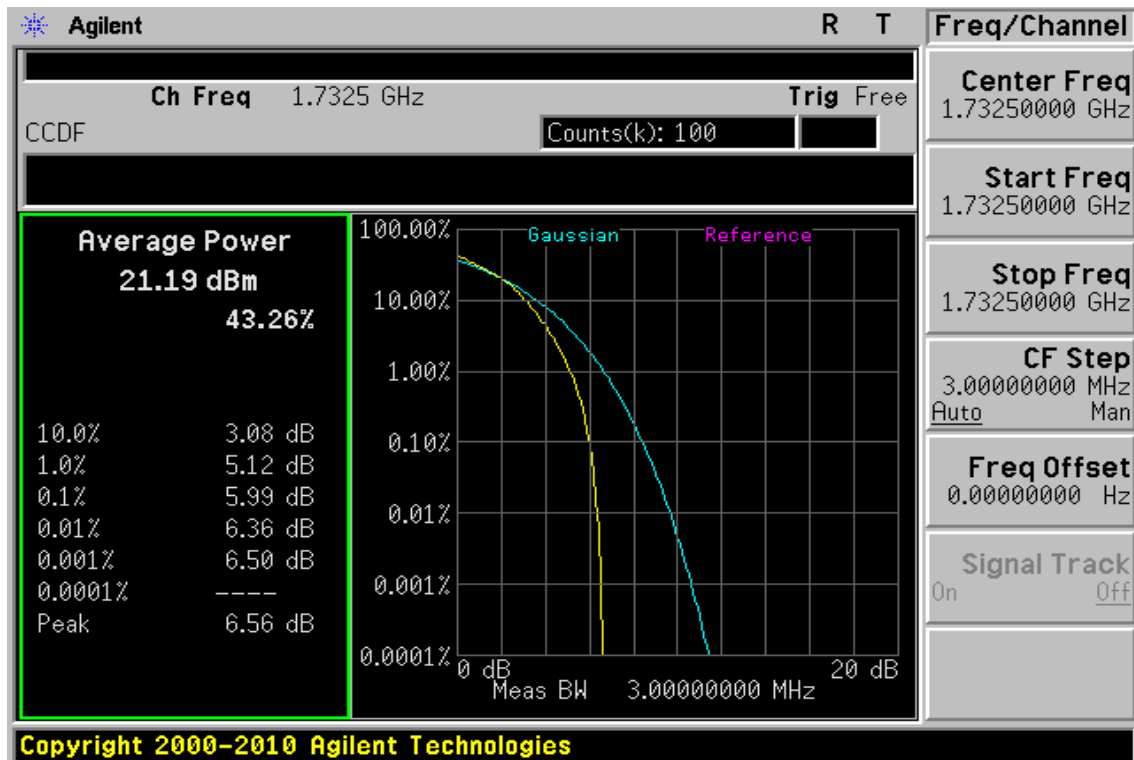
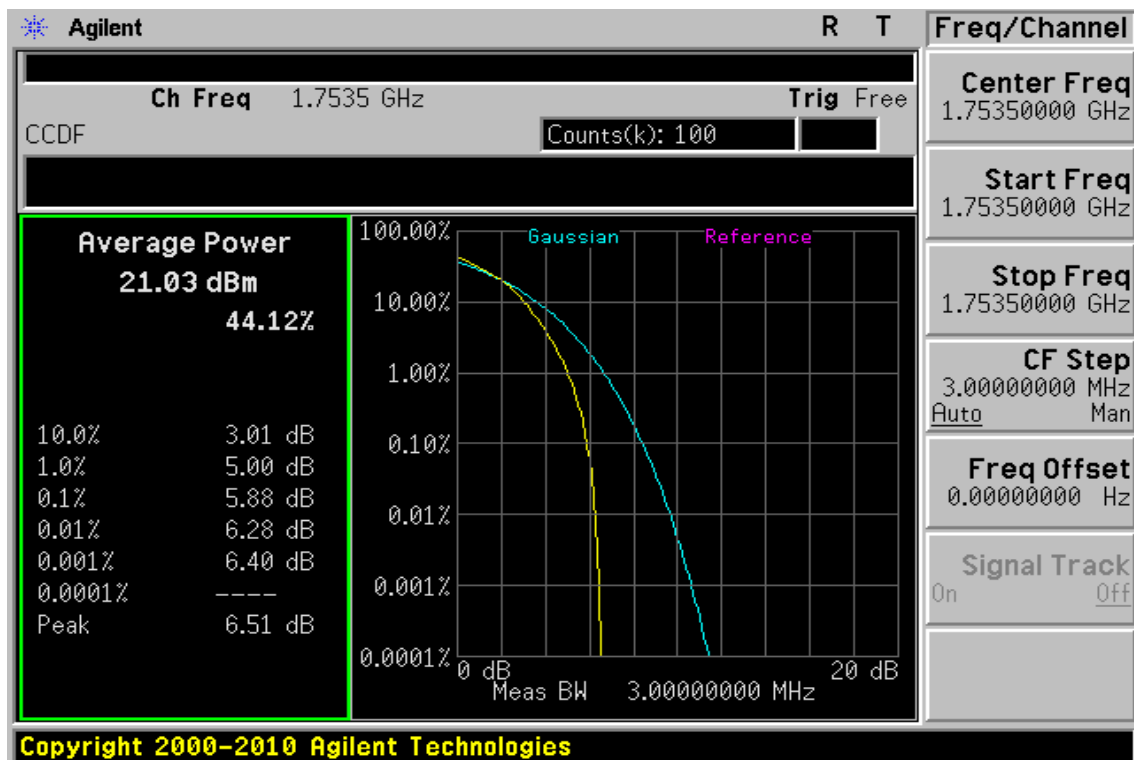


Figure 13-69: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High



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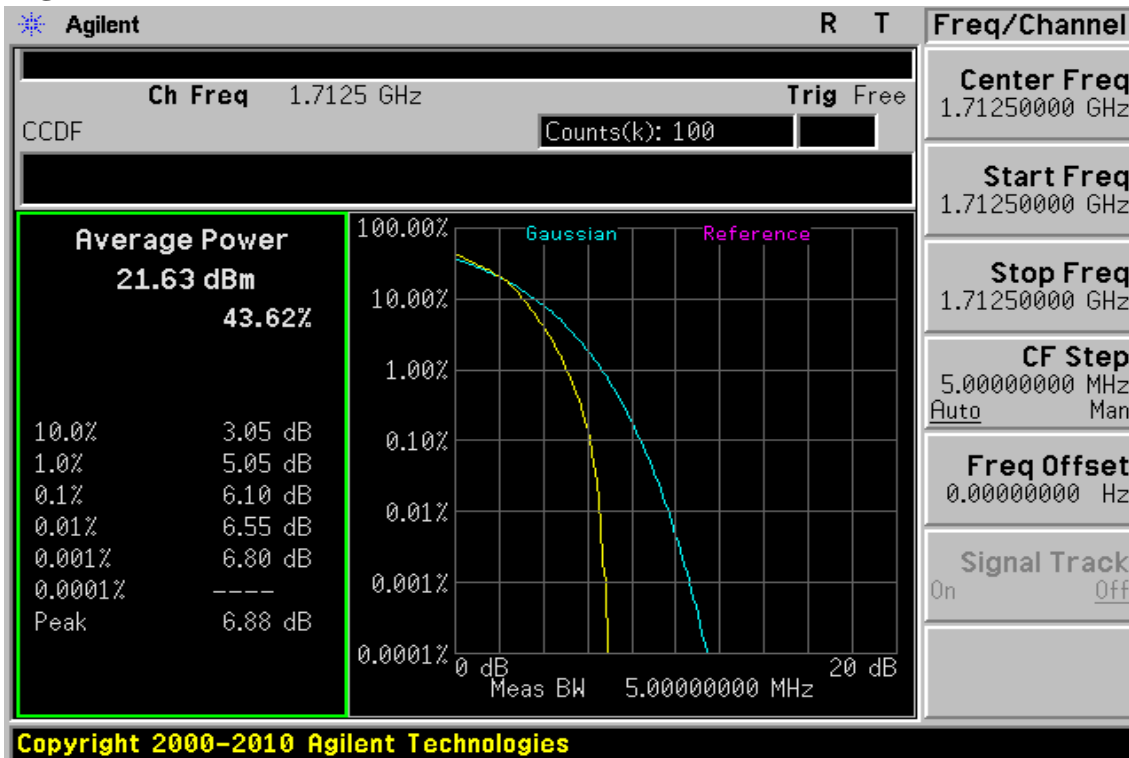
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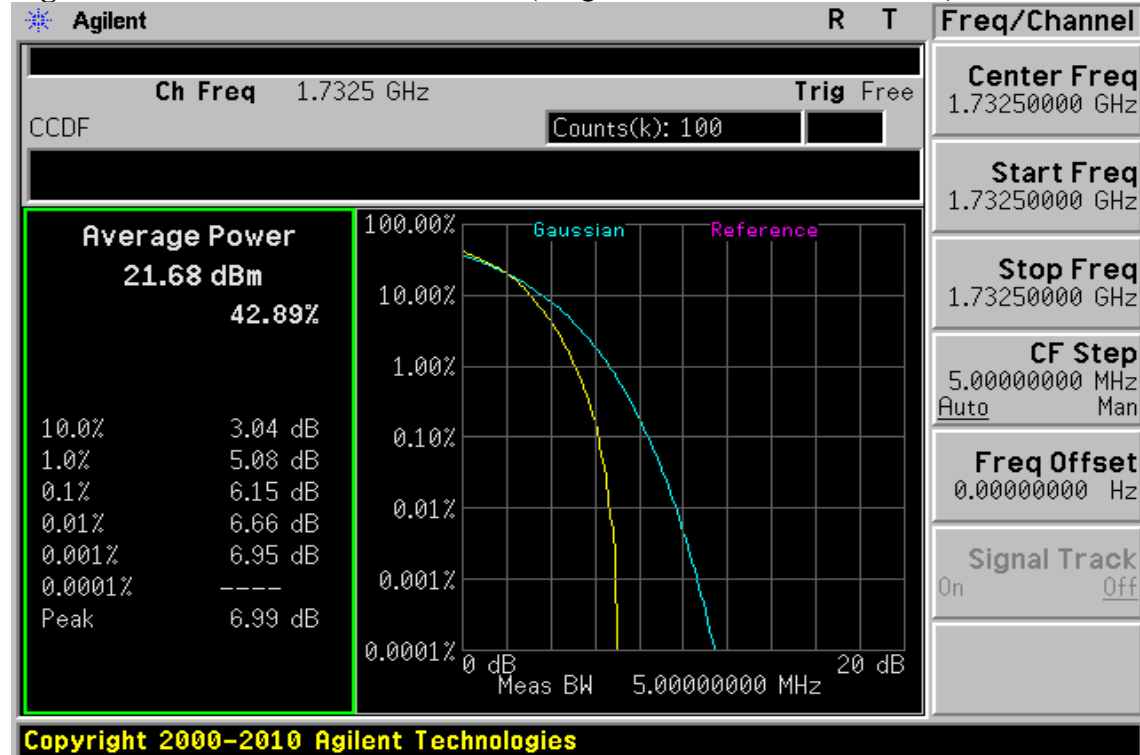
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**Figure 13-70: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low**



**Figure 13-71: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid**



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Figure 13-72: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High

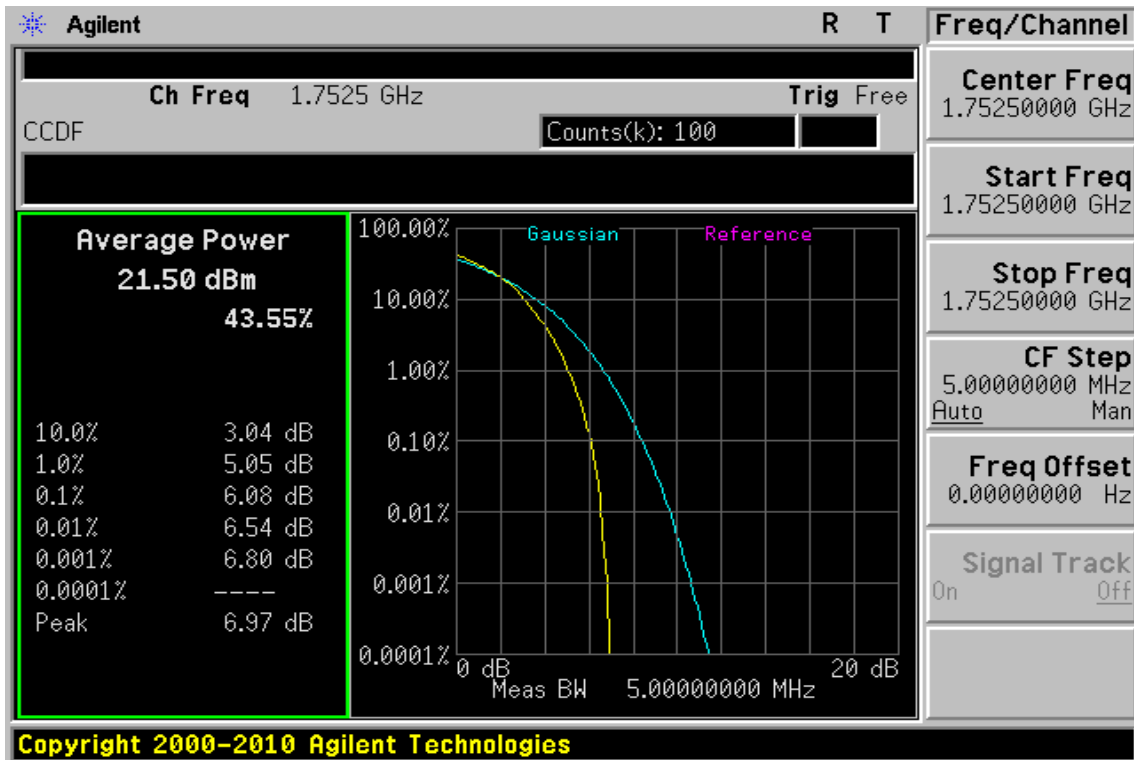
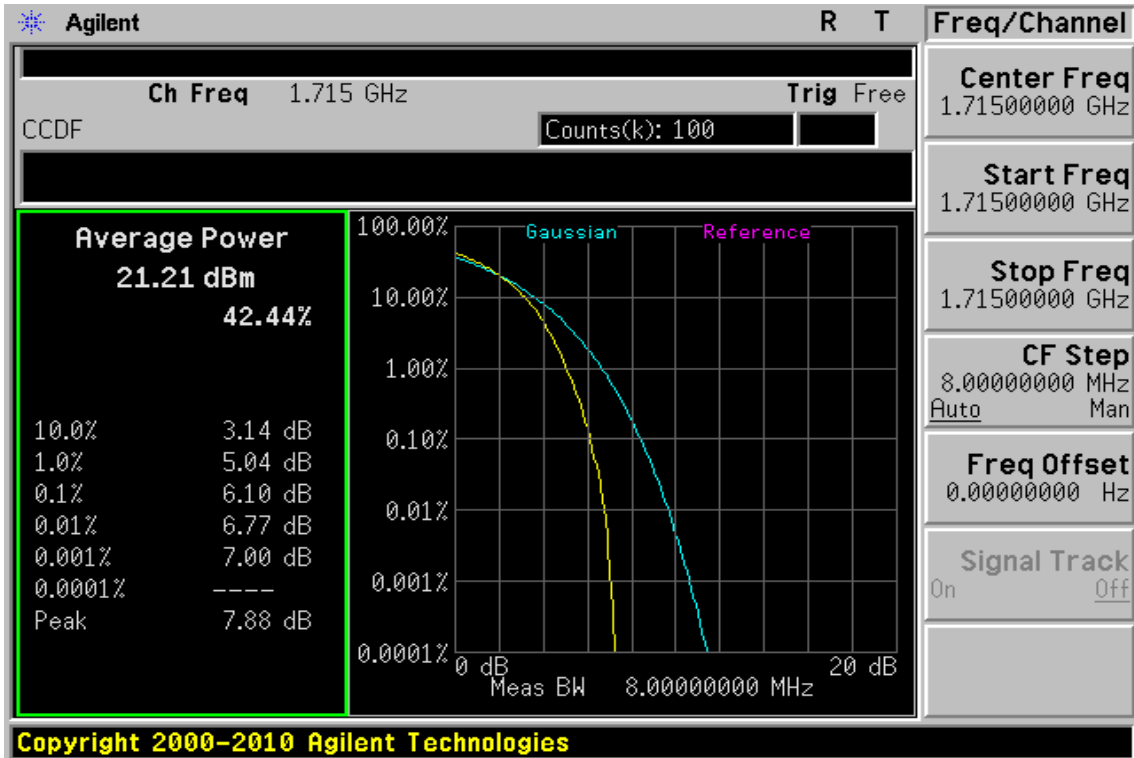


Figure 13-73: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-74: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid

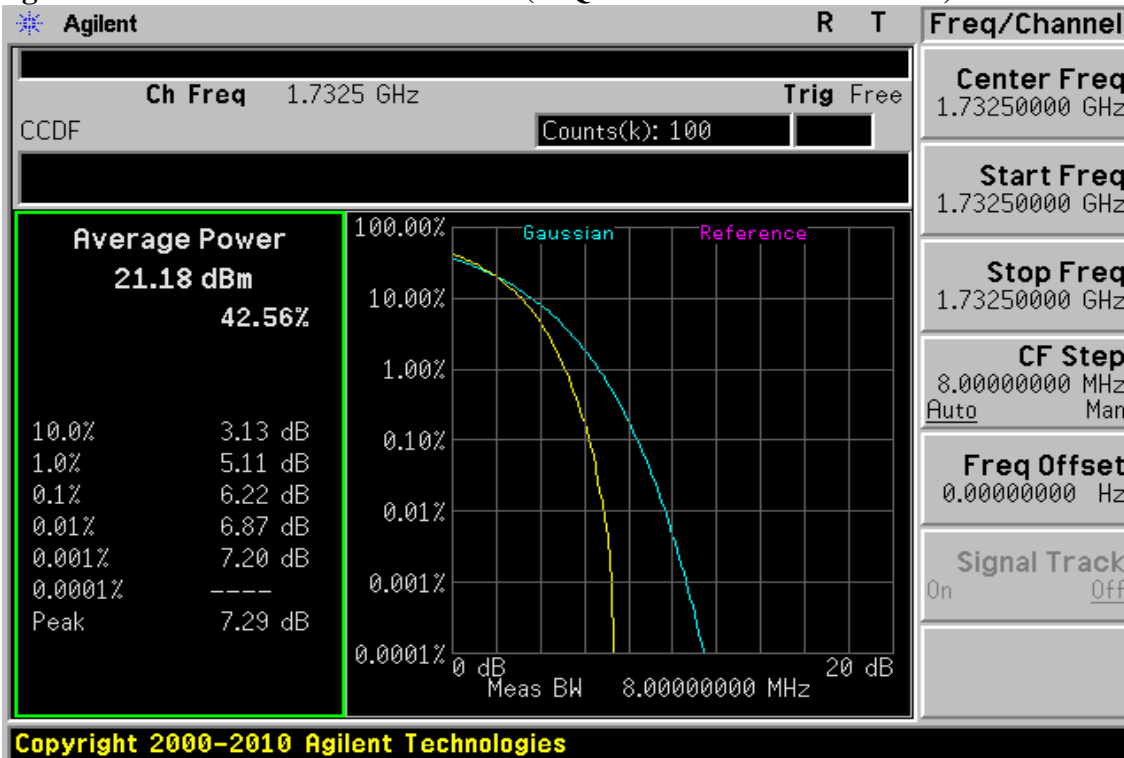
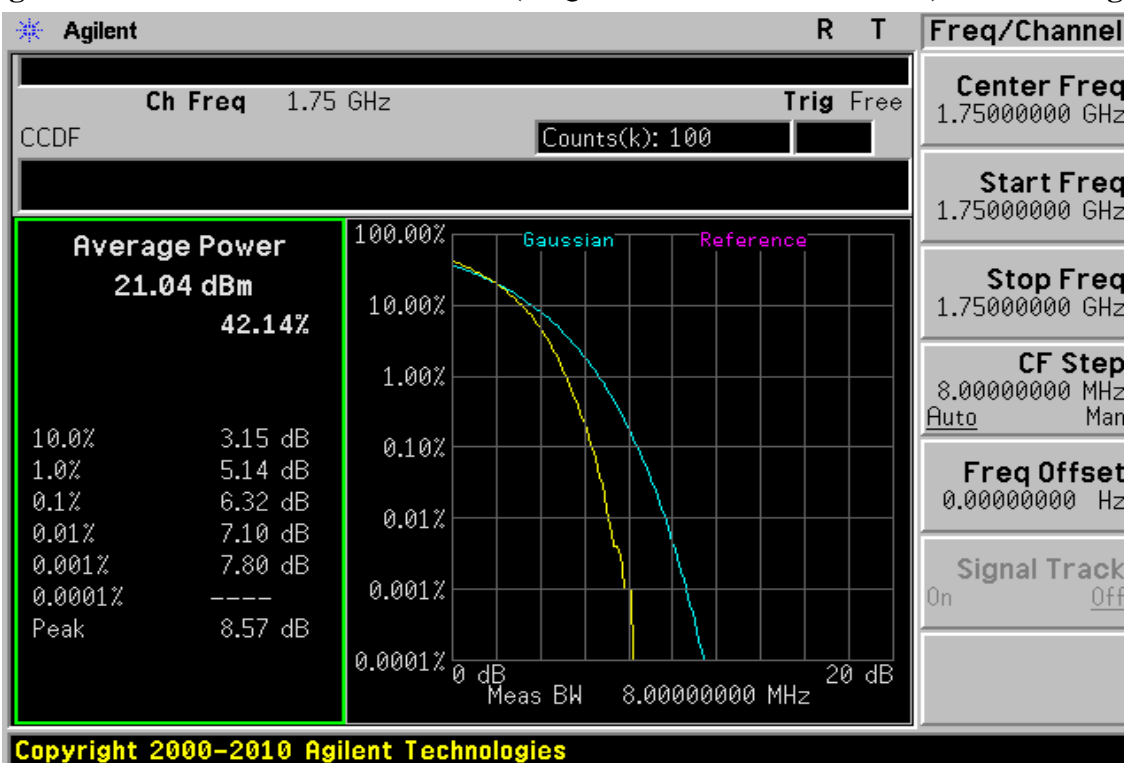


Figure 13-75: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-76: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Low

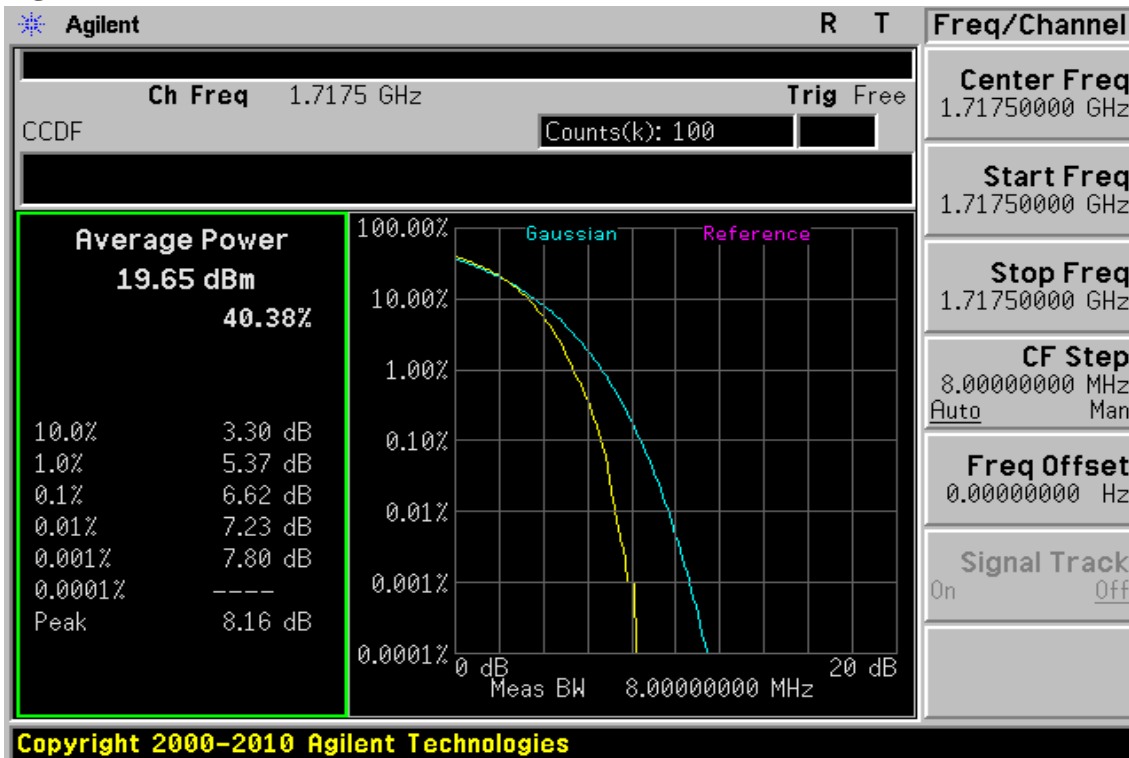
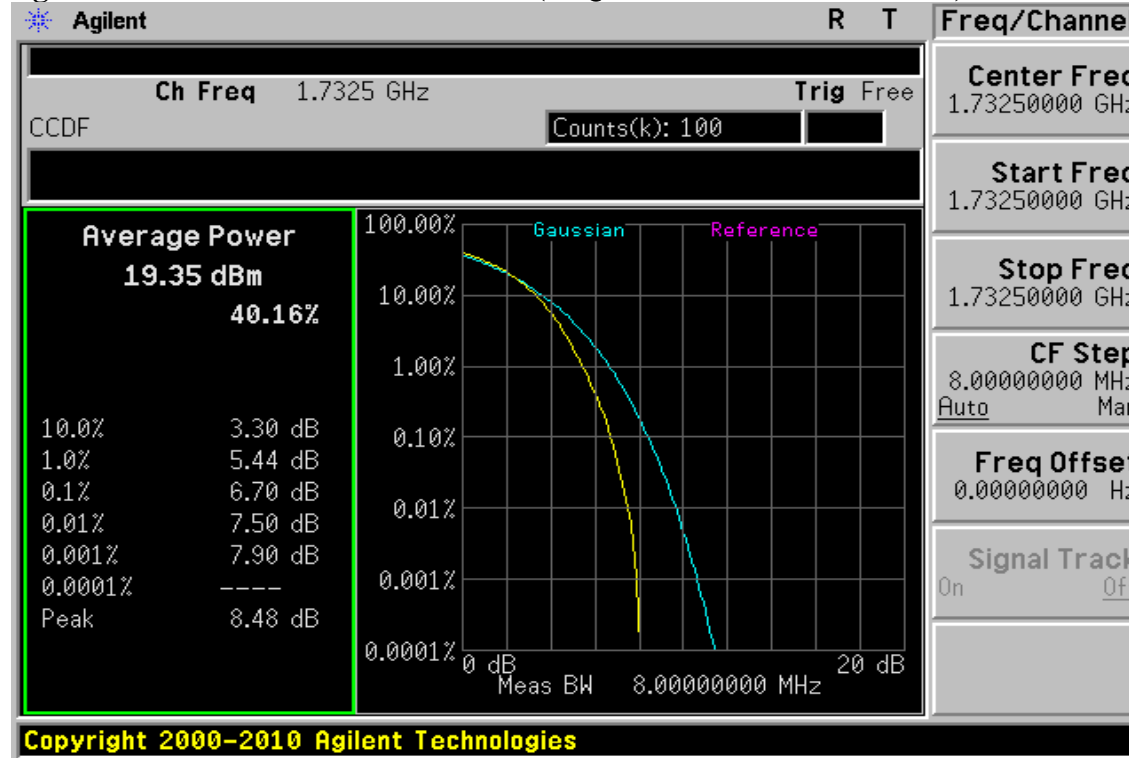


Figure 13-77: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-78: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel High

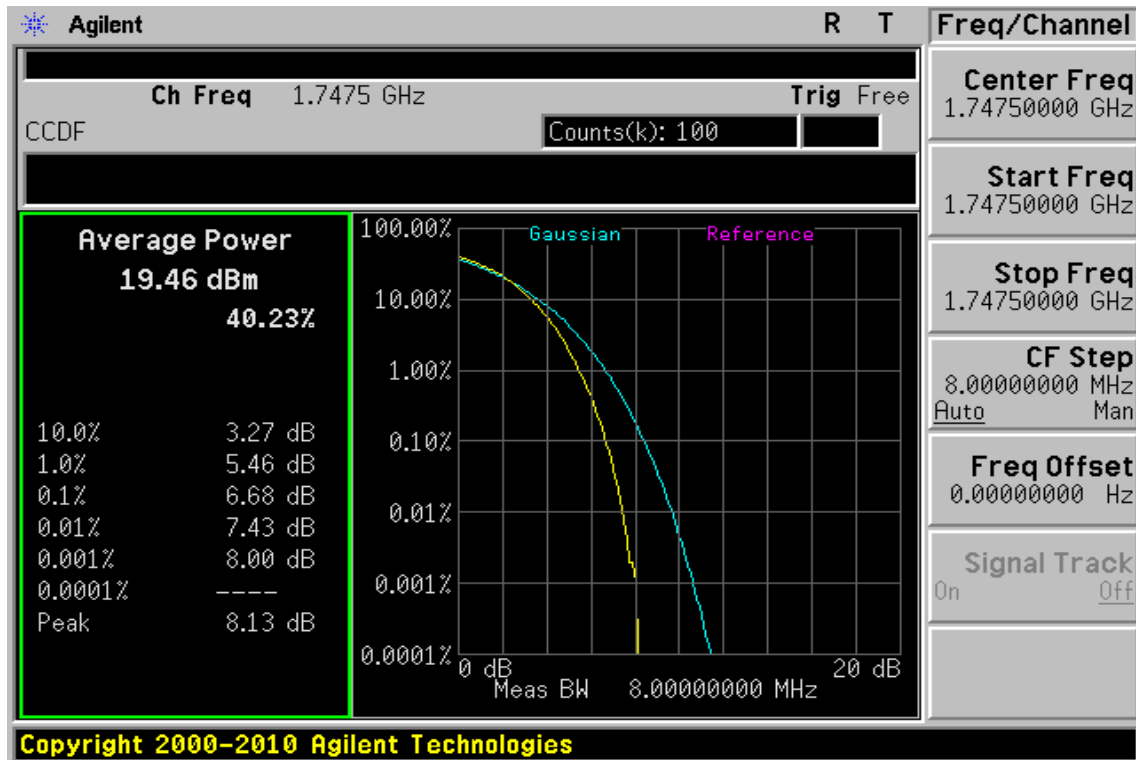
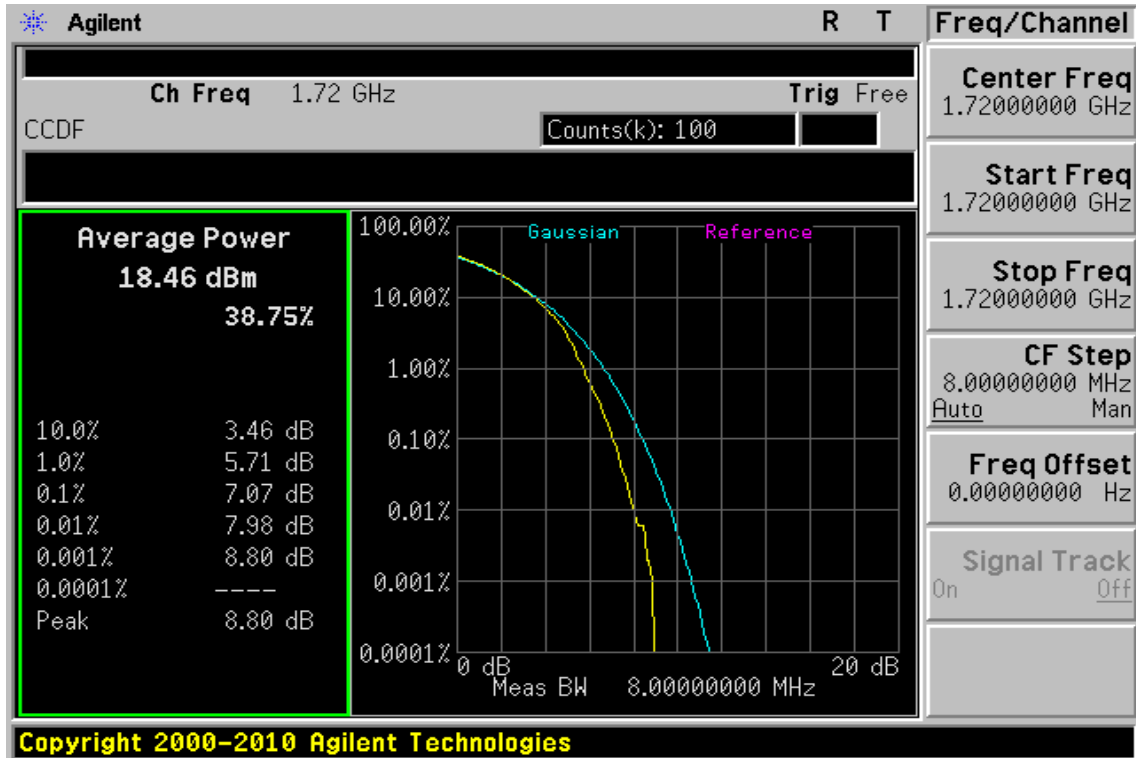


Figure 13-79: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-80: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Mid

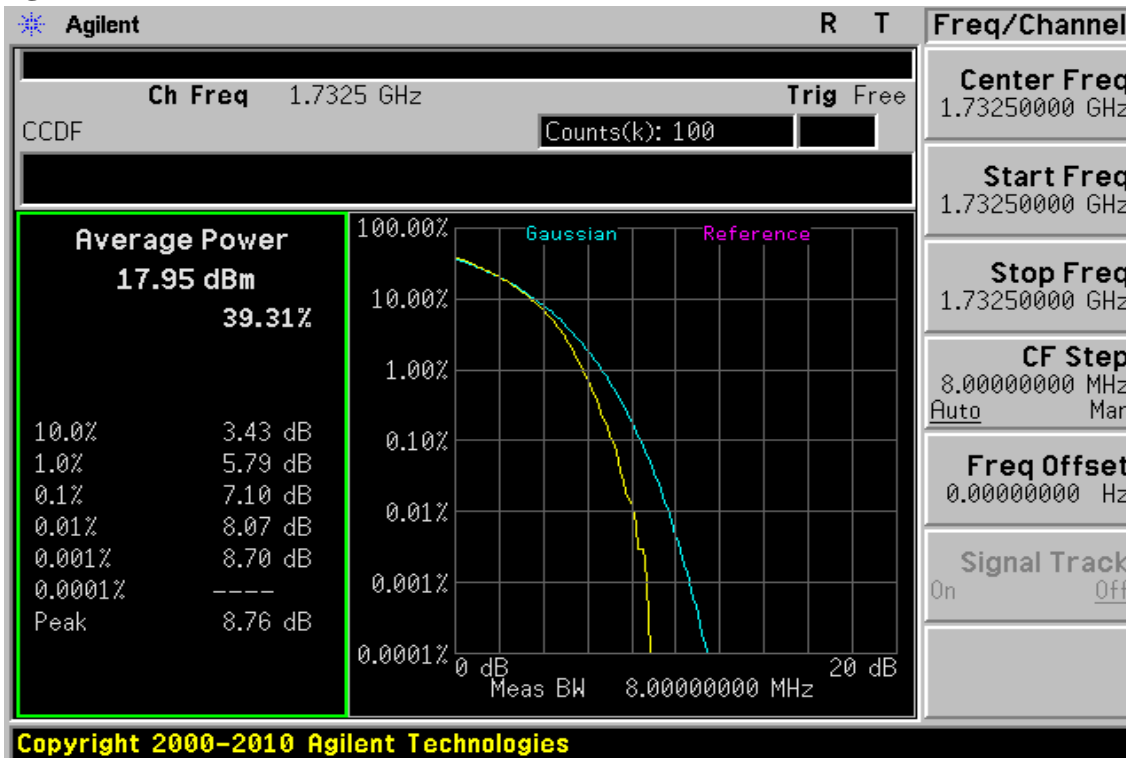
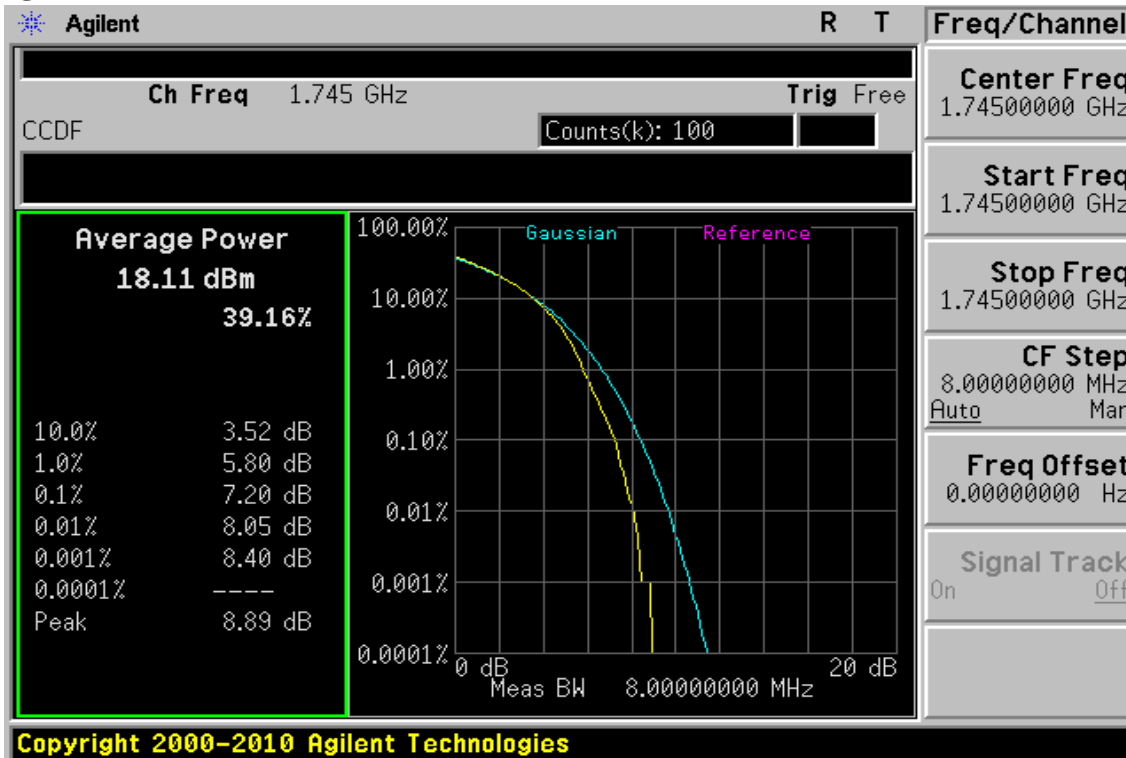


Figure 13-81: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-82: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low

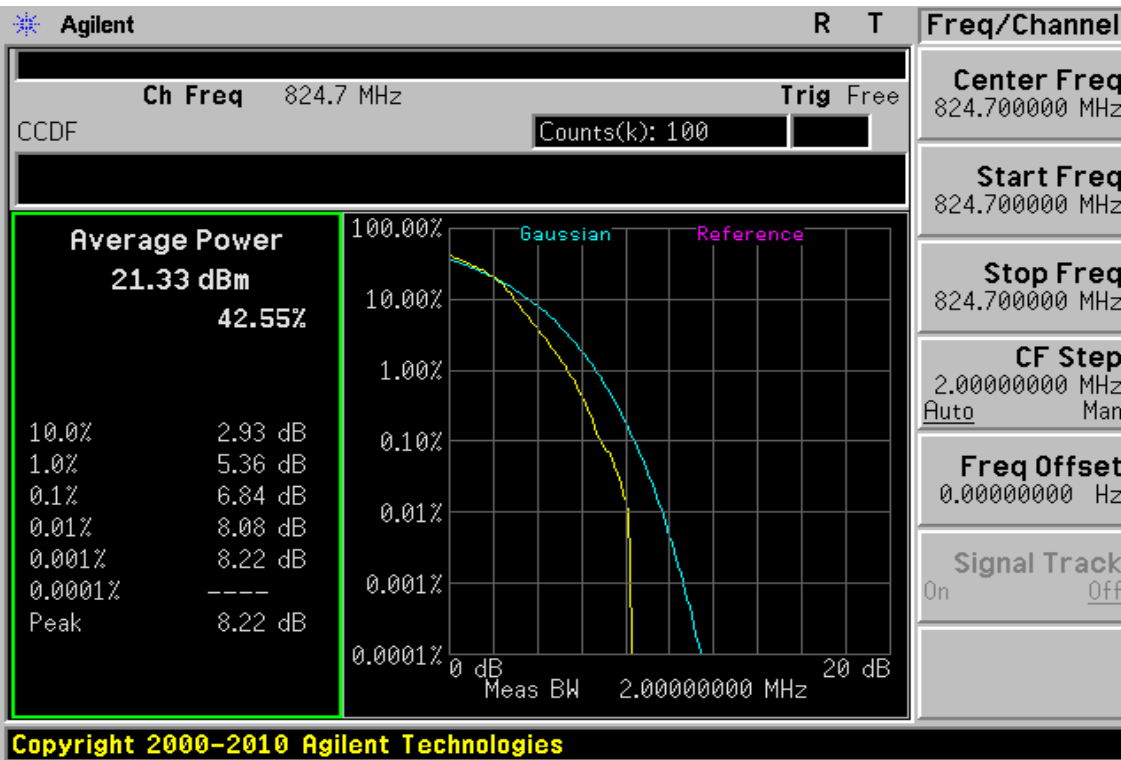
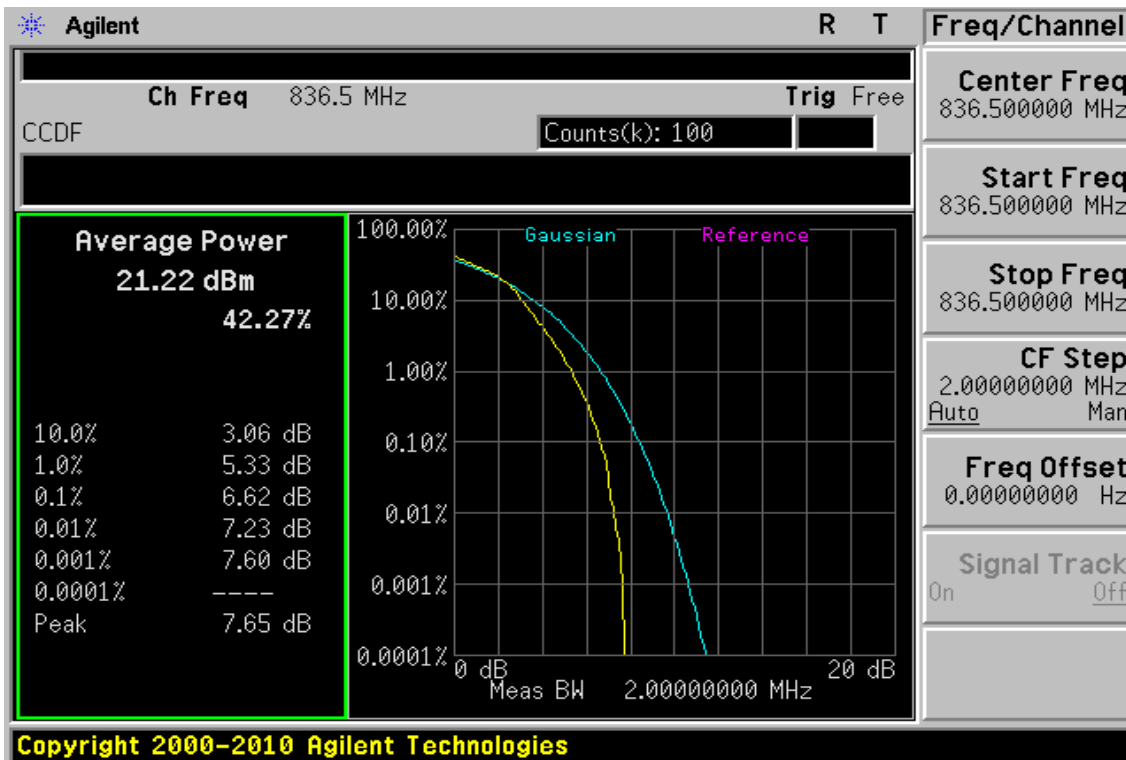


Figure 13-83: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-84: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High

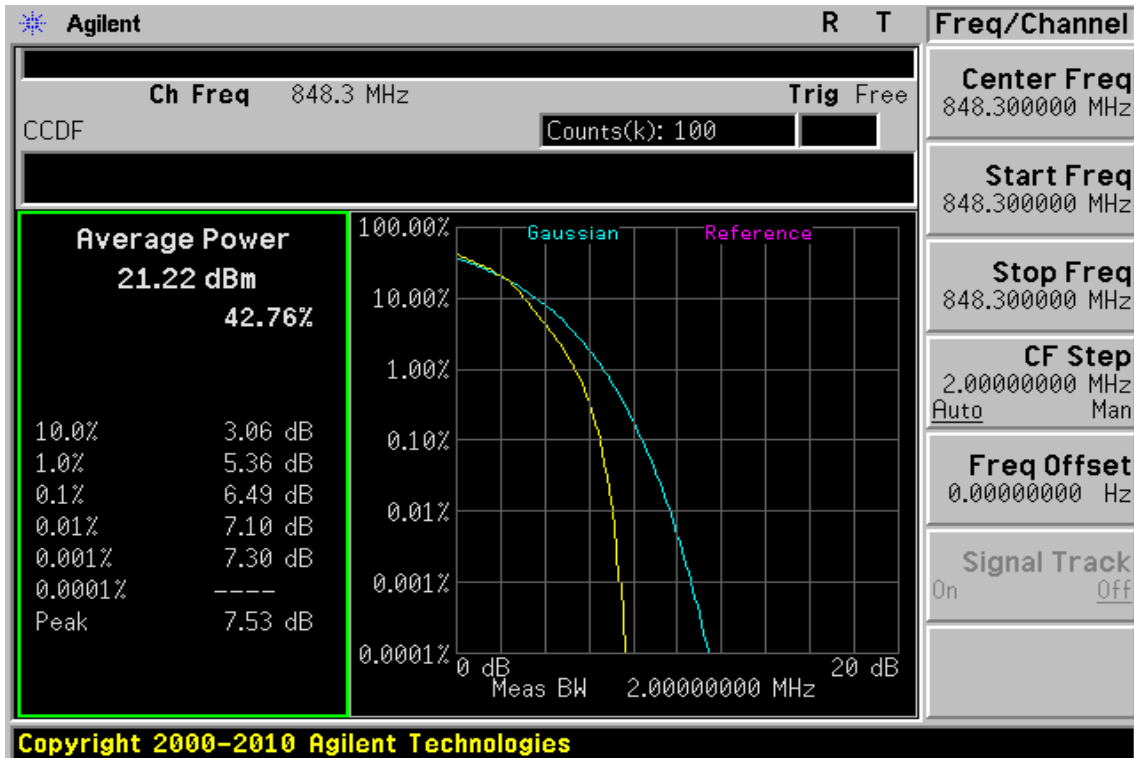
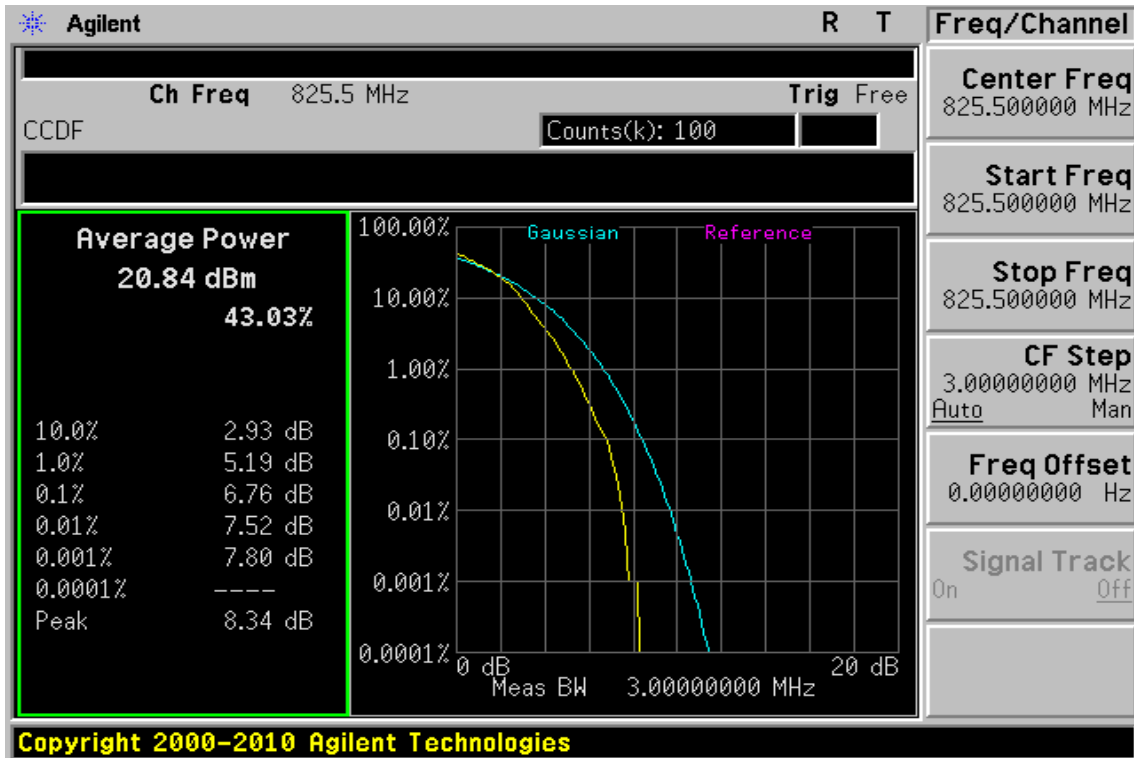


Figure 13-85: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-86: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid

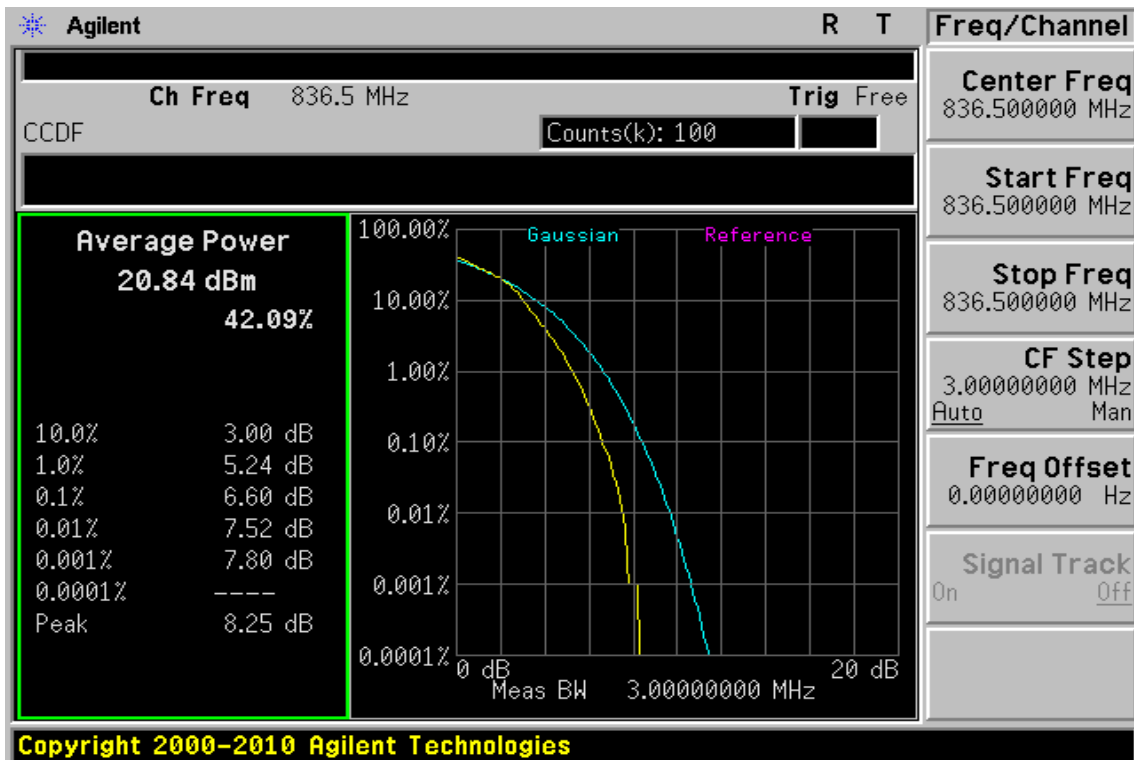
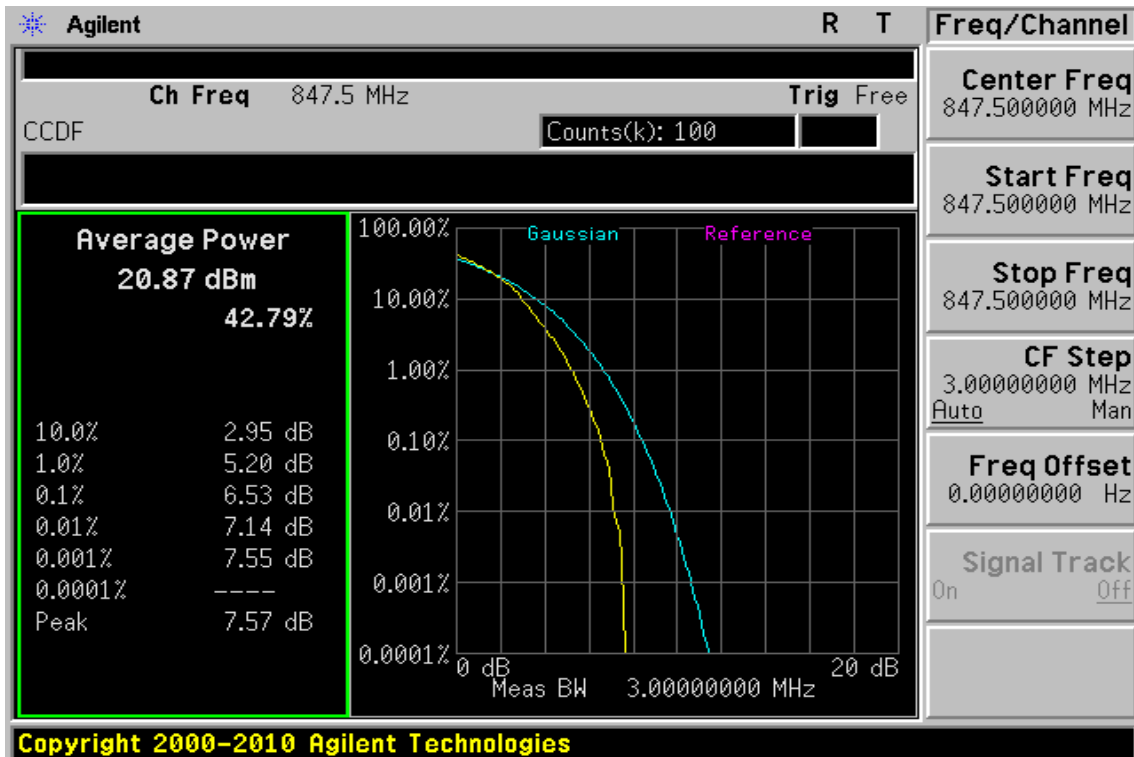


Figure 13-87: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-88: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low

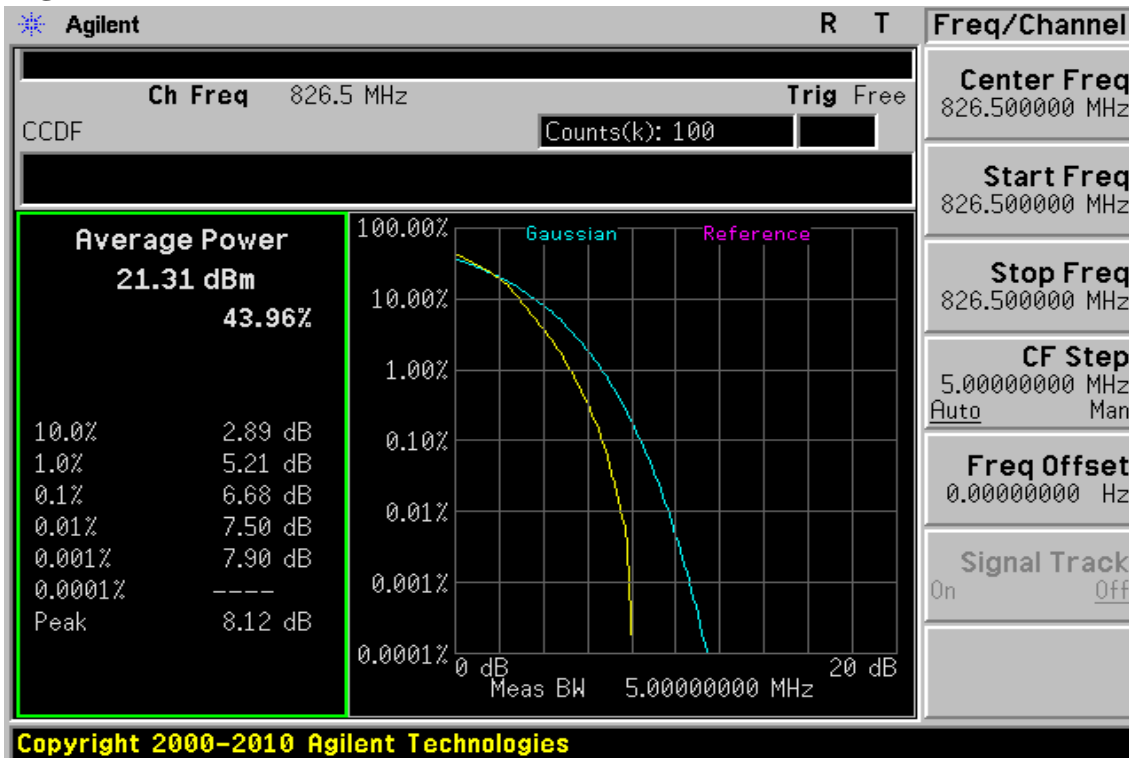
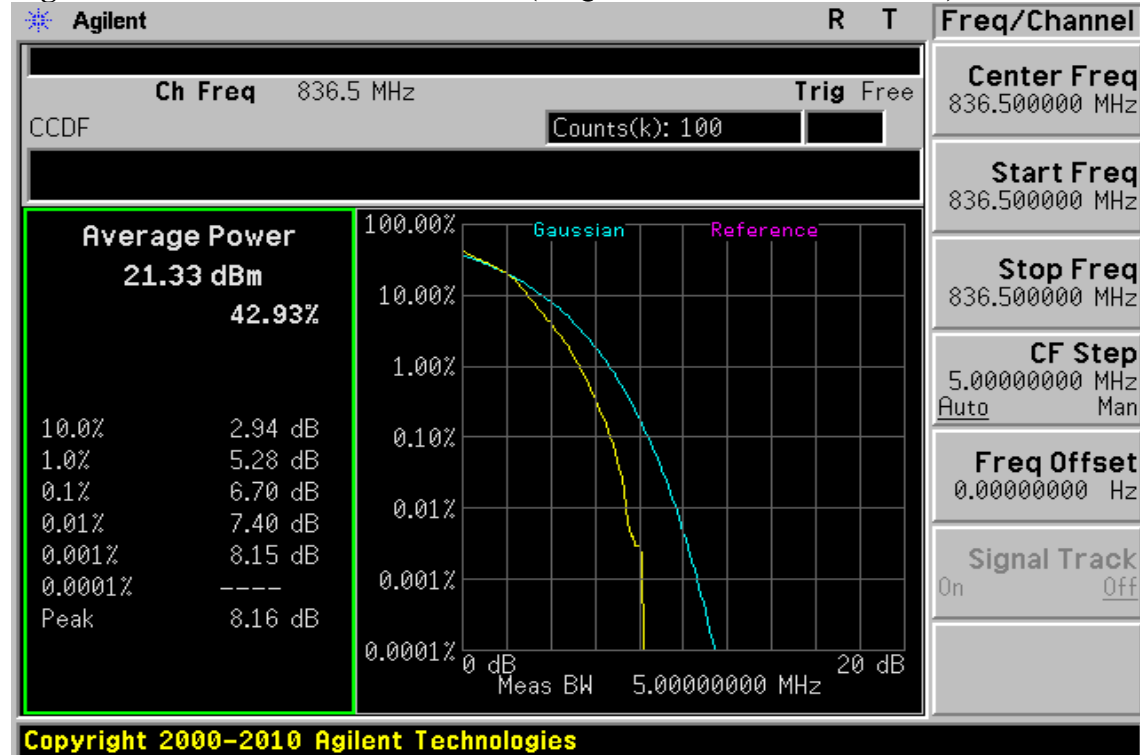


Figure 13-89: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid



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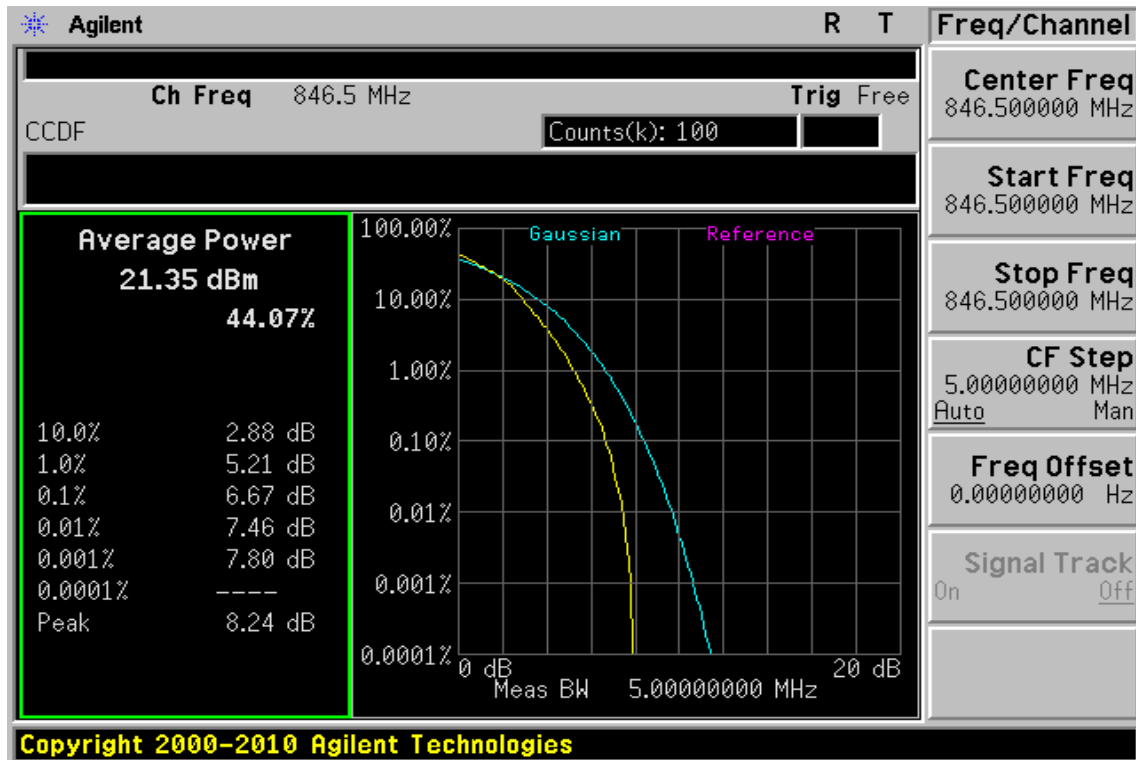
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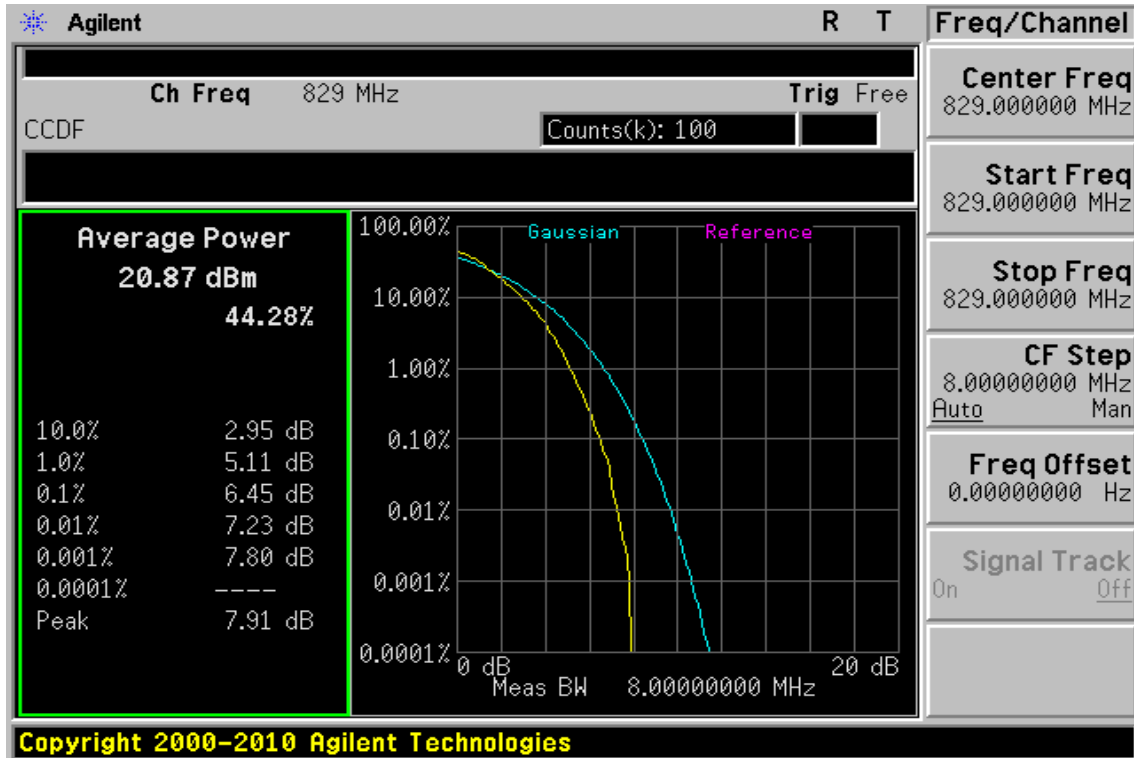
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**Figure 13-90: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High**



**Figure 13-91: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low**



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Figure 13-92: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid

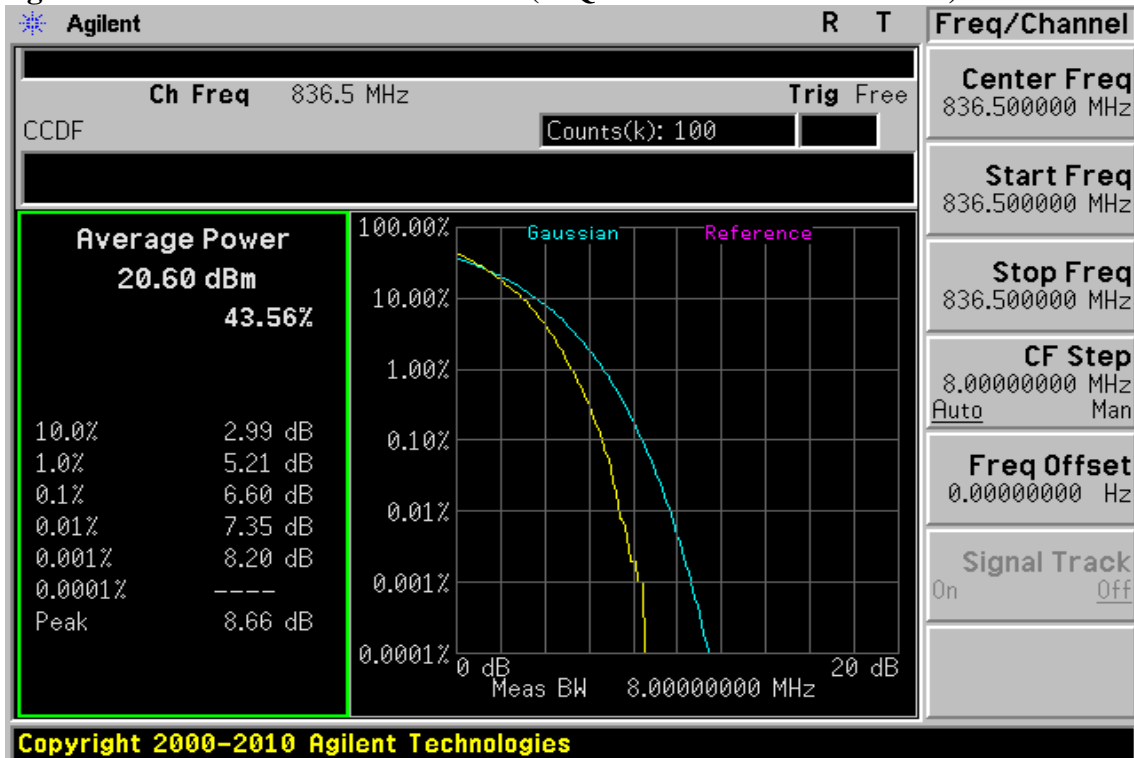
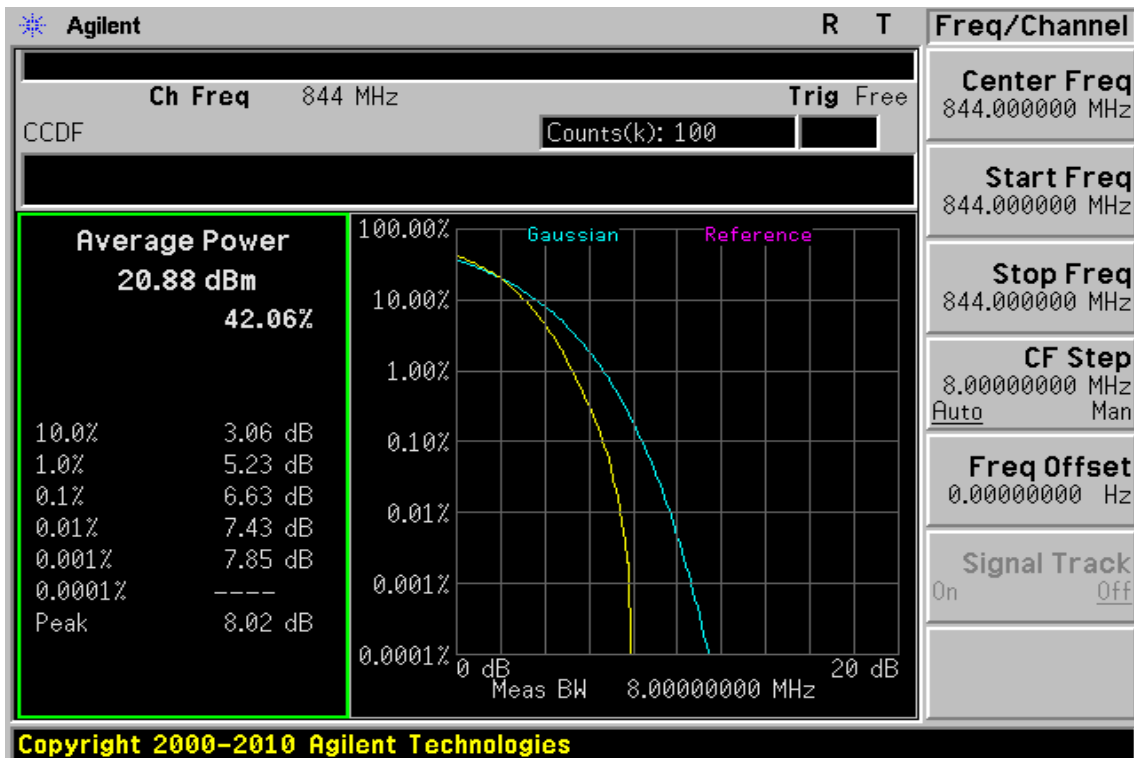


Figure 13-93: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-94: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low

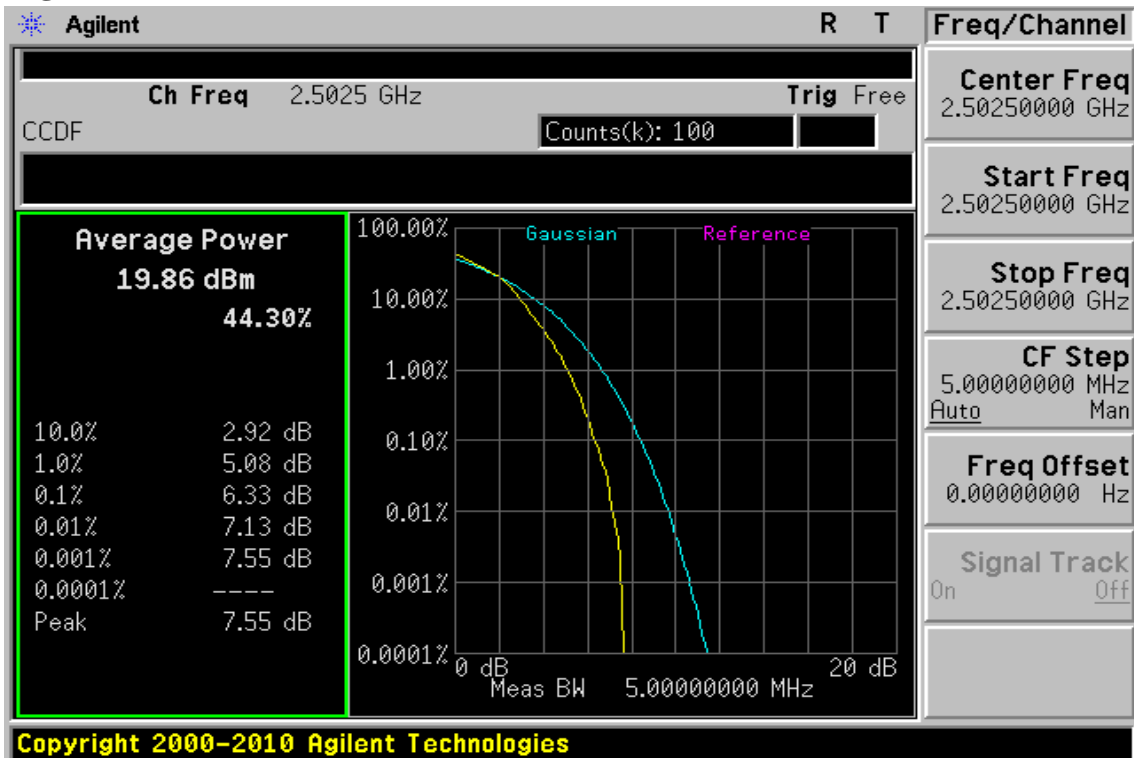
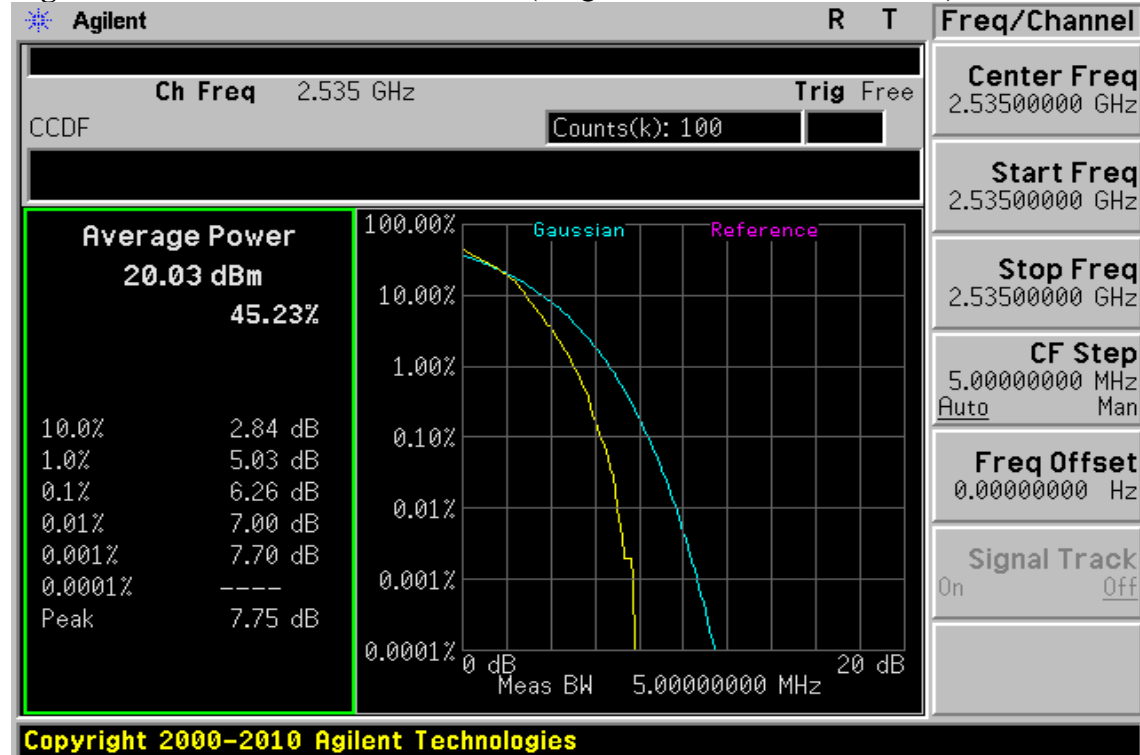


Figure 13-95: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid



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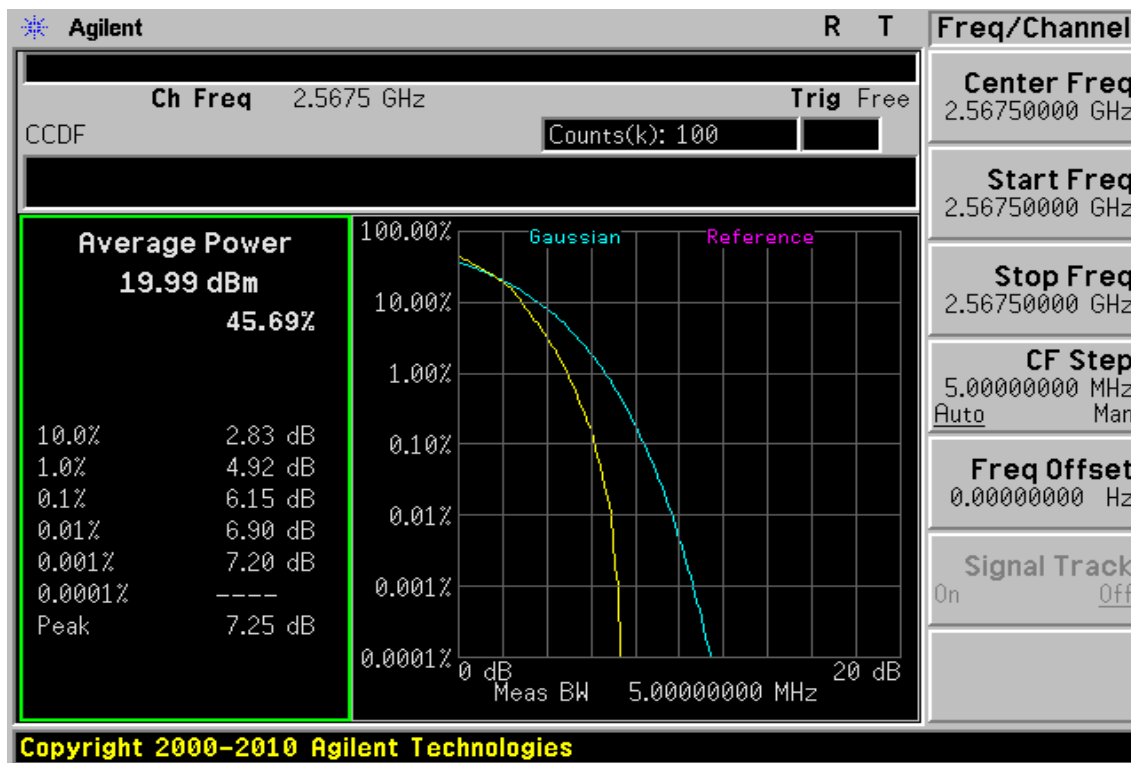
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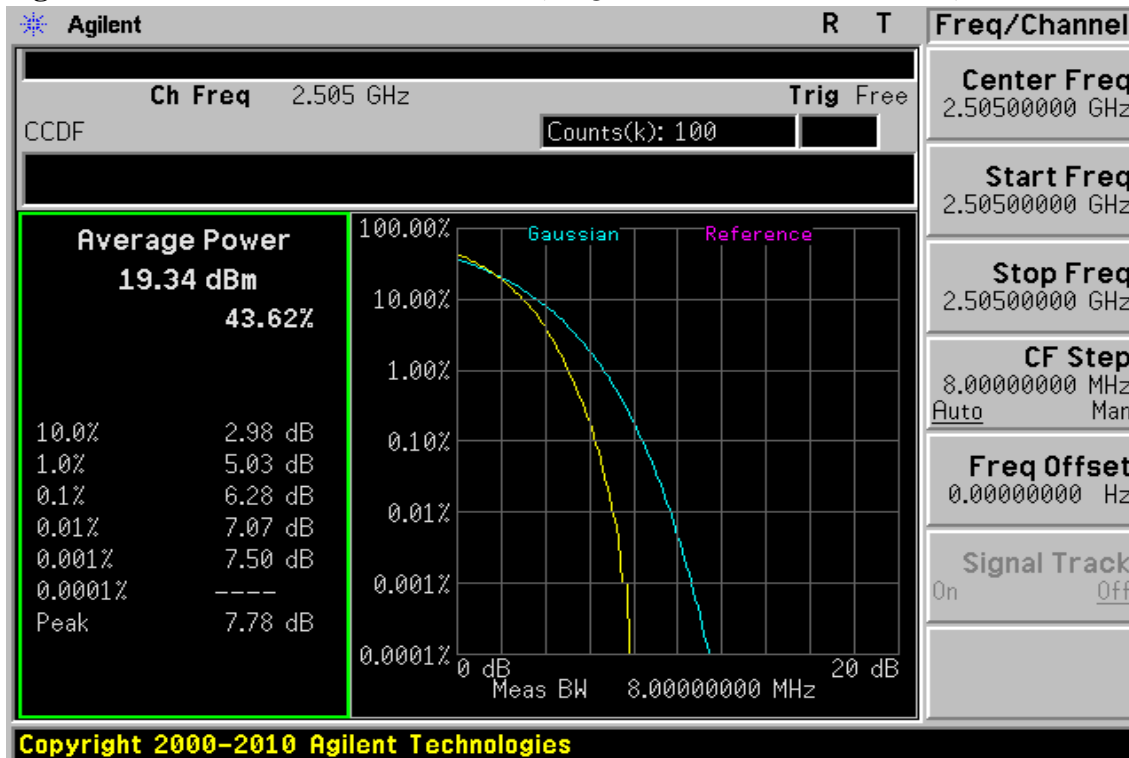
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**Figure 13-96: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel High**



**Figure 13-97: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low**



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Figure 13-98: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid

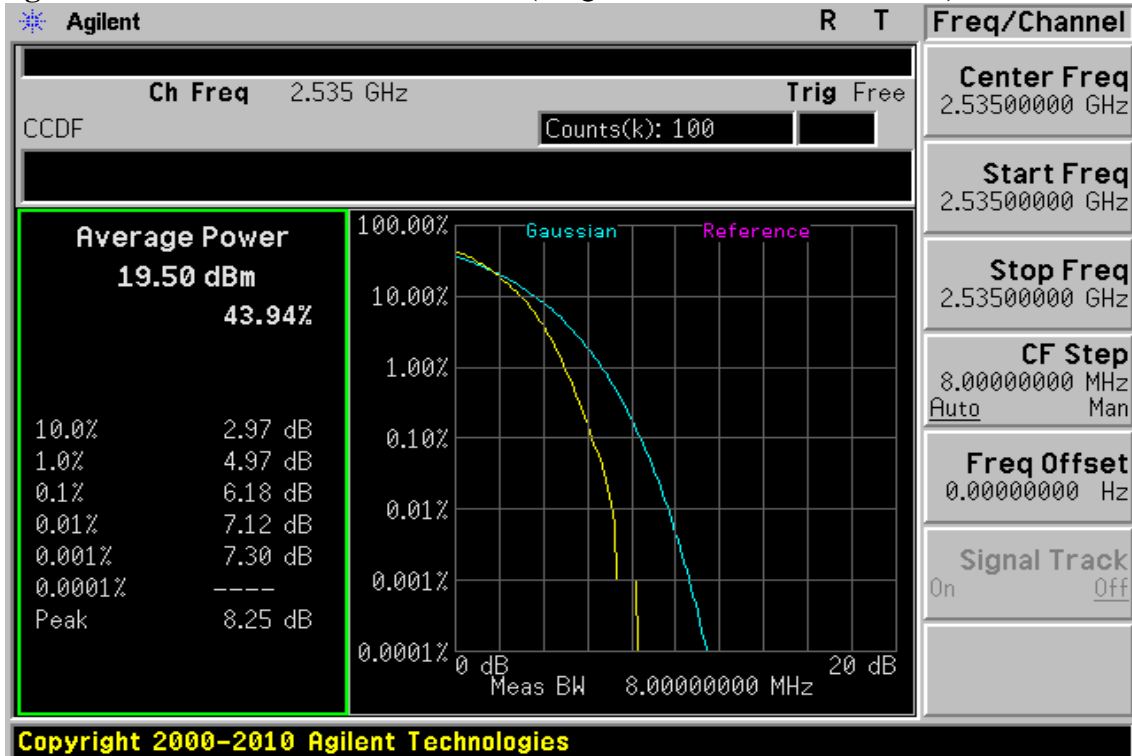
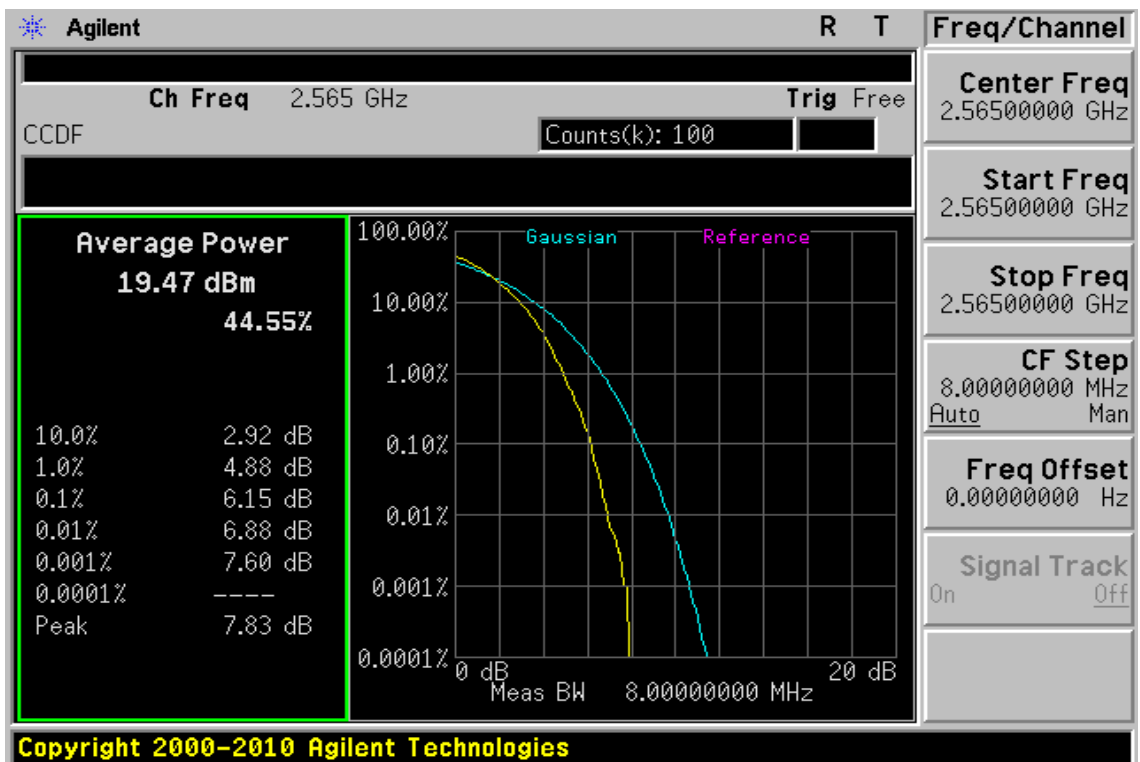


Figure 13-99: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-100: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low

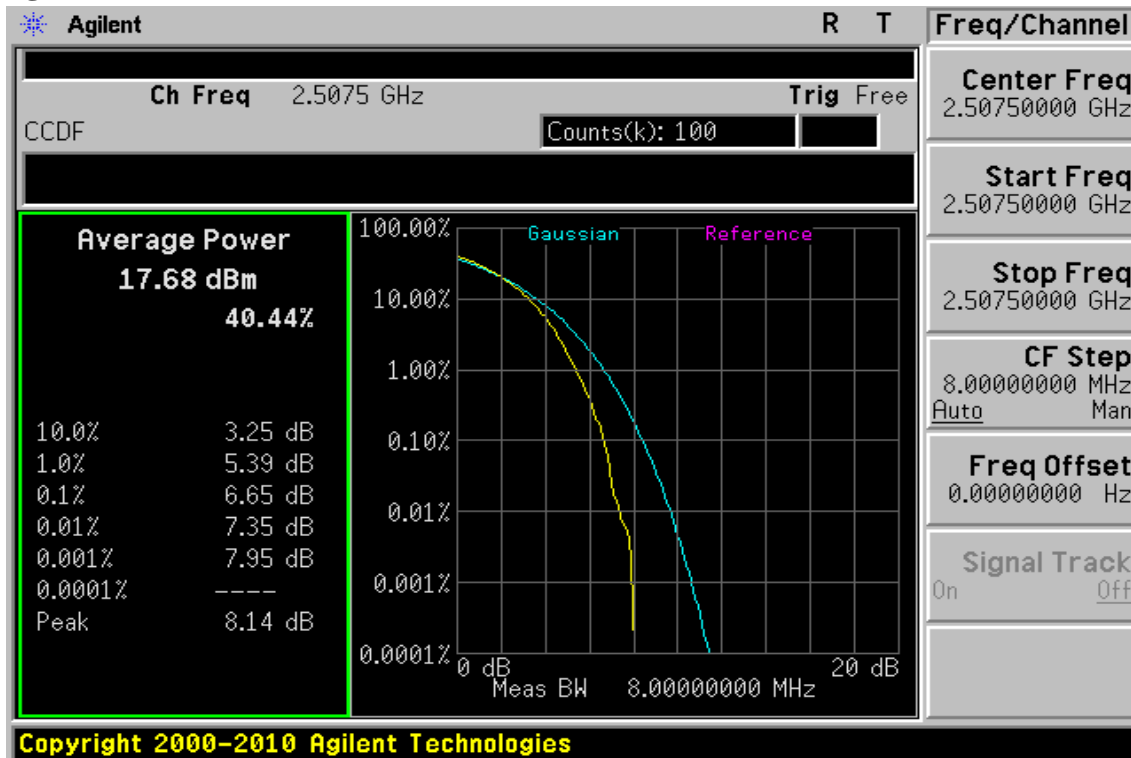
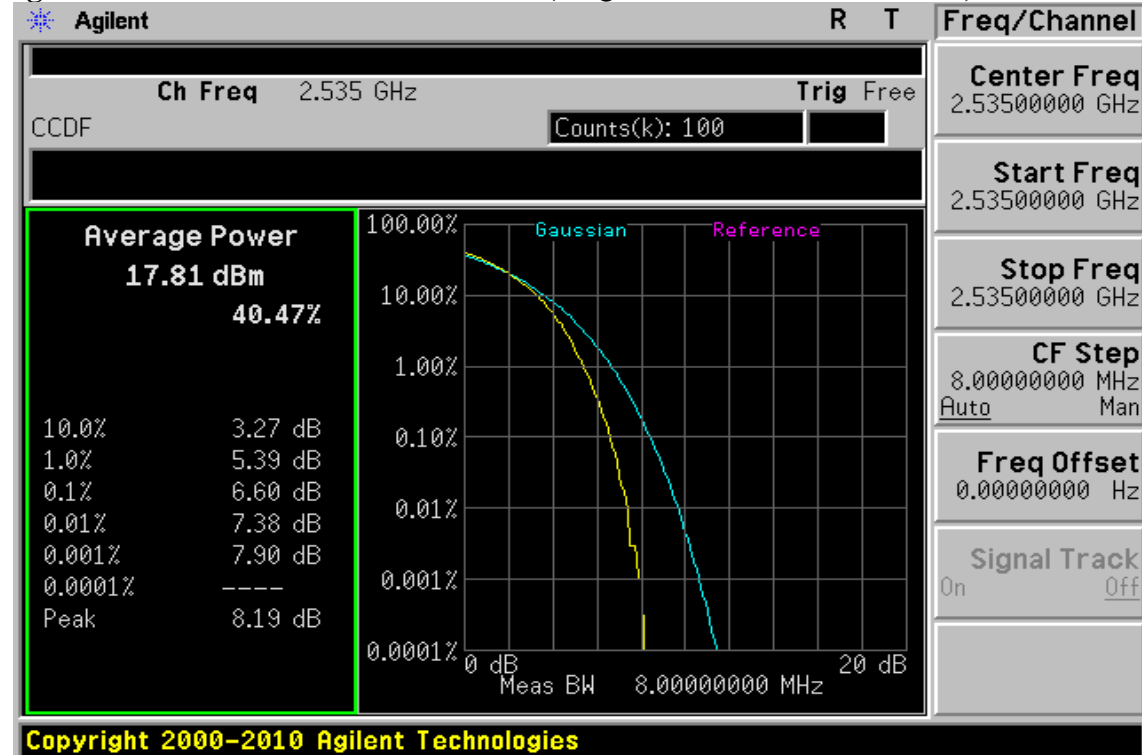


Figure 13-101: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-102: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High

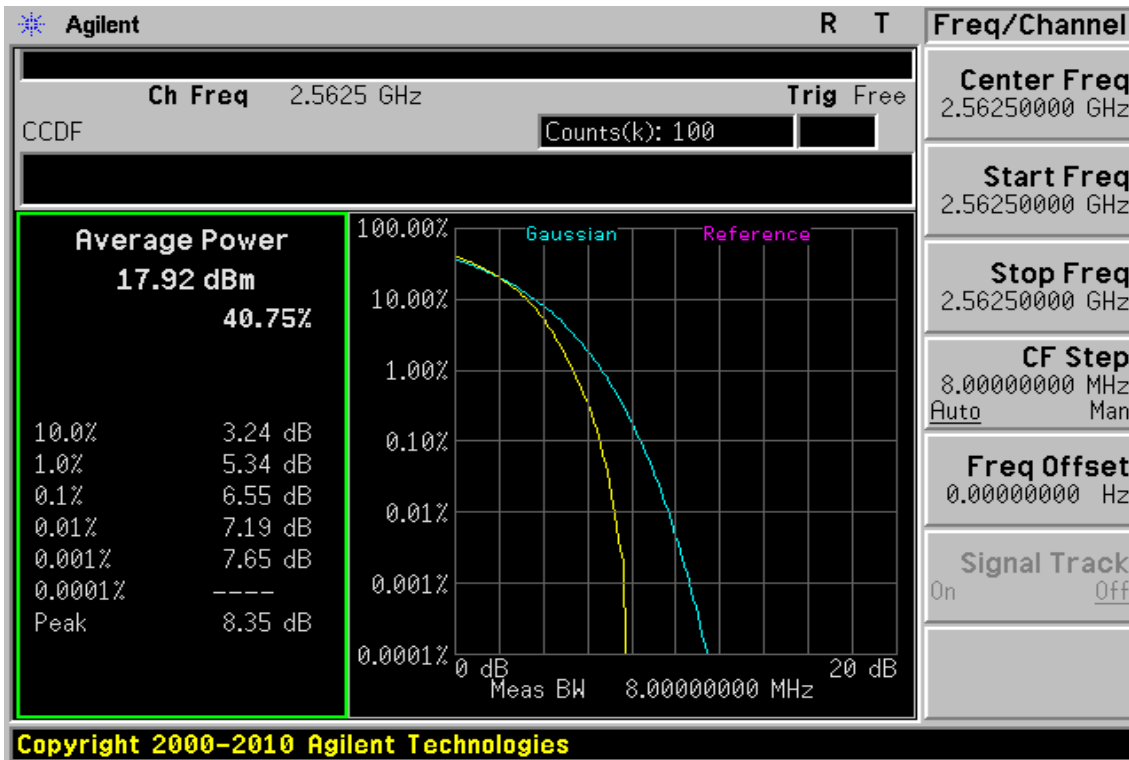
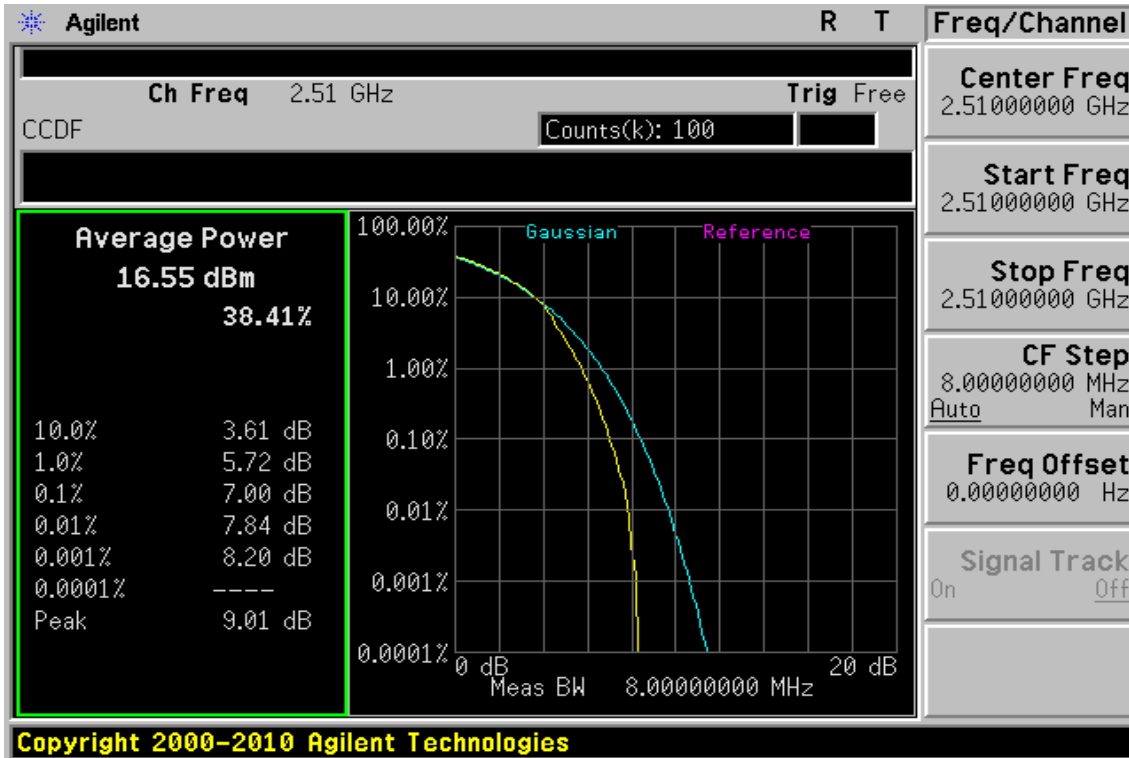


Figure 13-103: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-104: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid

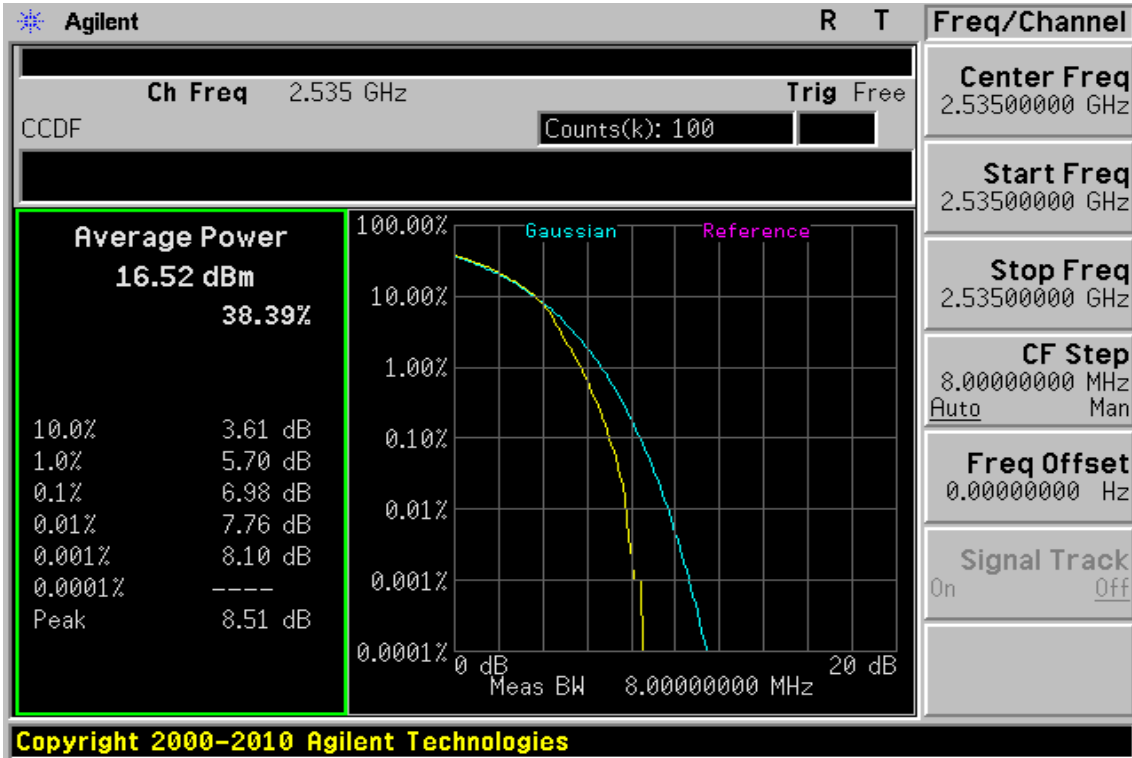
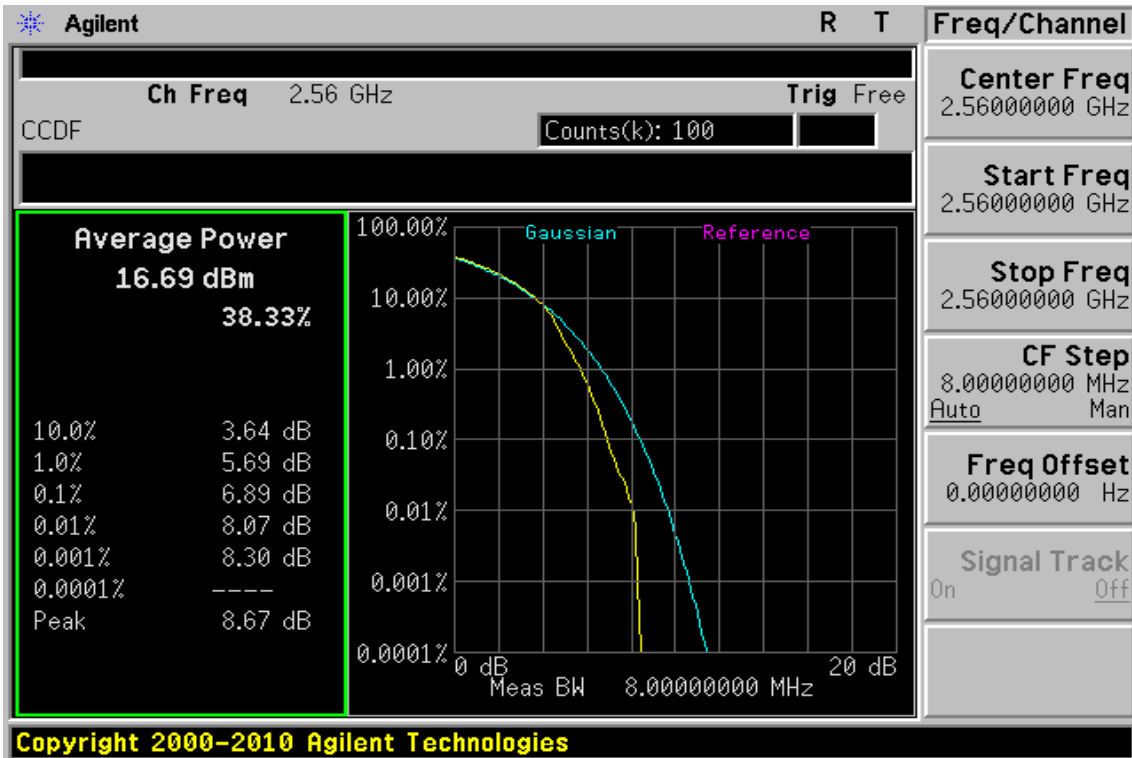


Figure 13-105: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-106: 1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel Low

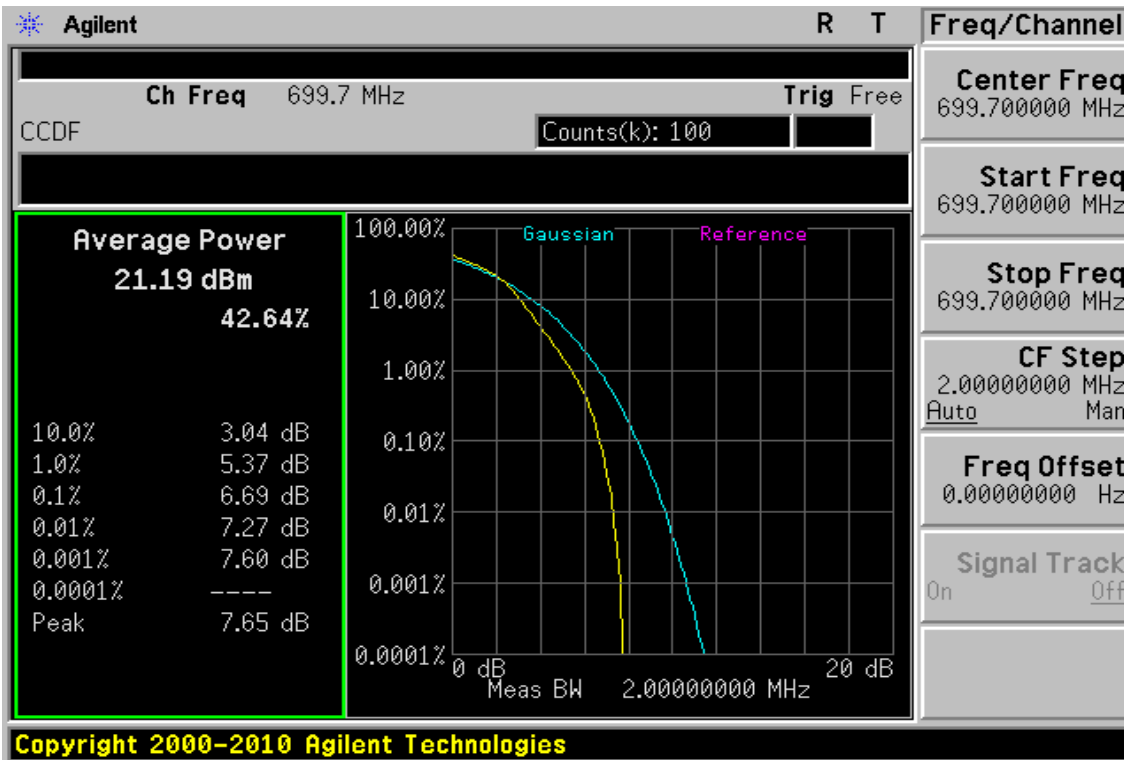
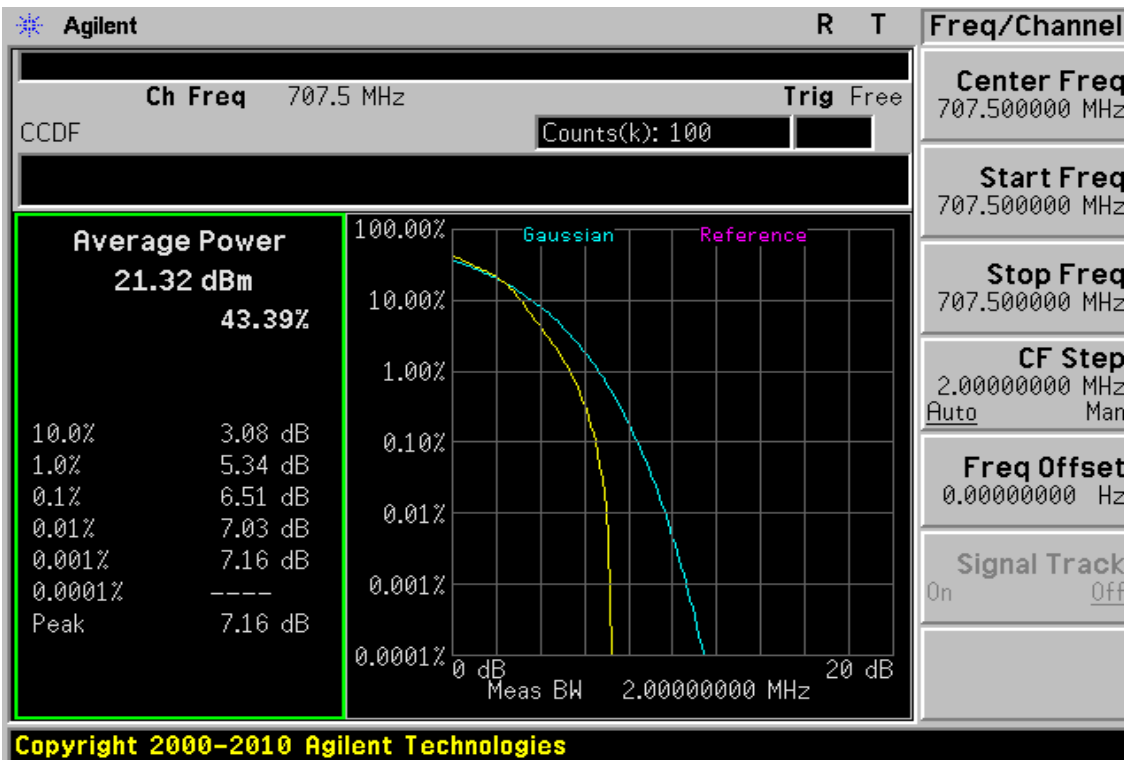


Figure 13-107: 1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-108: 1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel High

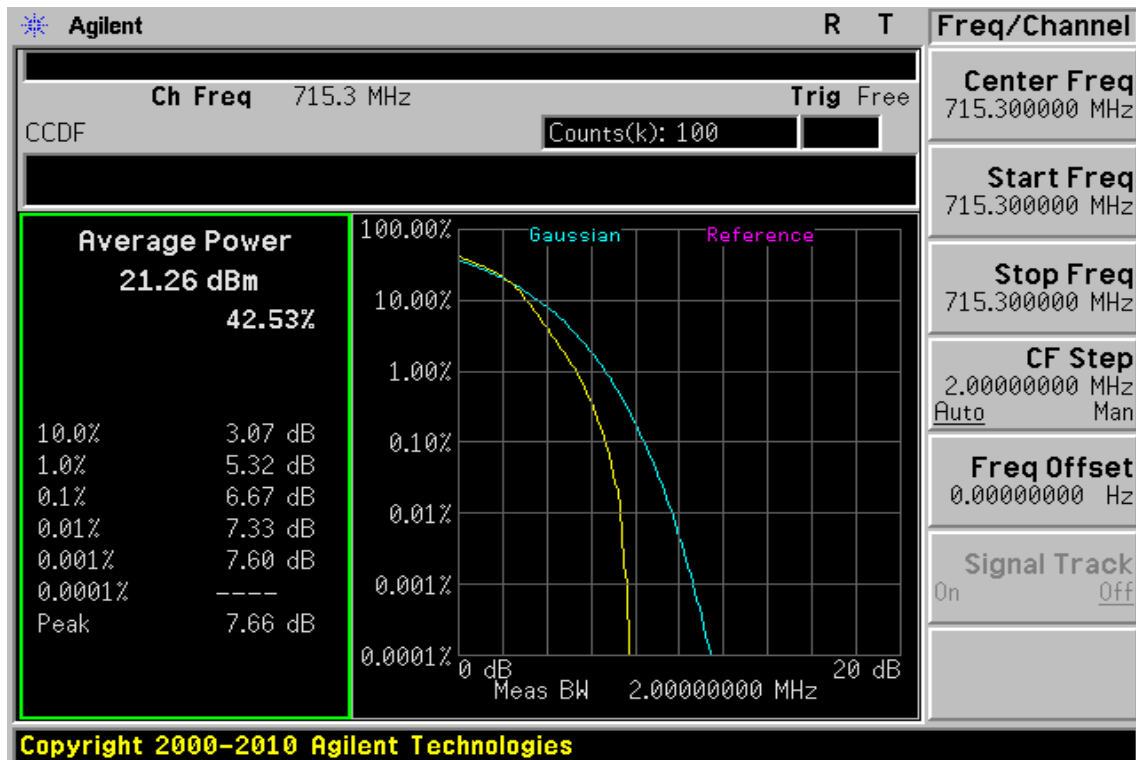
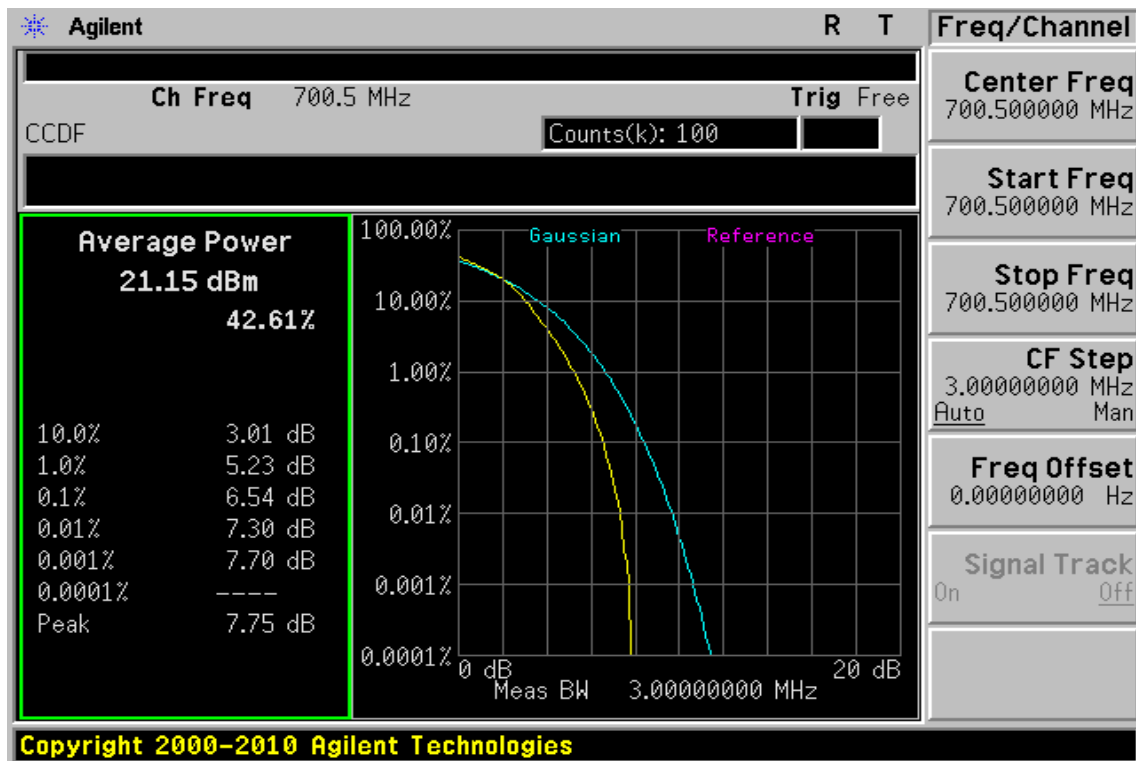


Figure 13-109: 3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-110: 3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel Mid

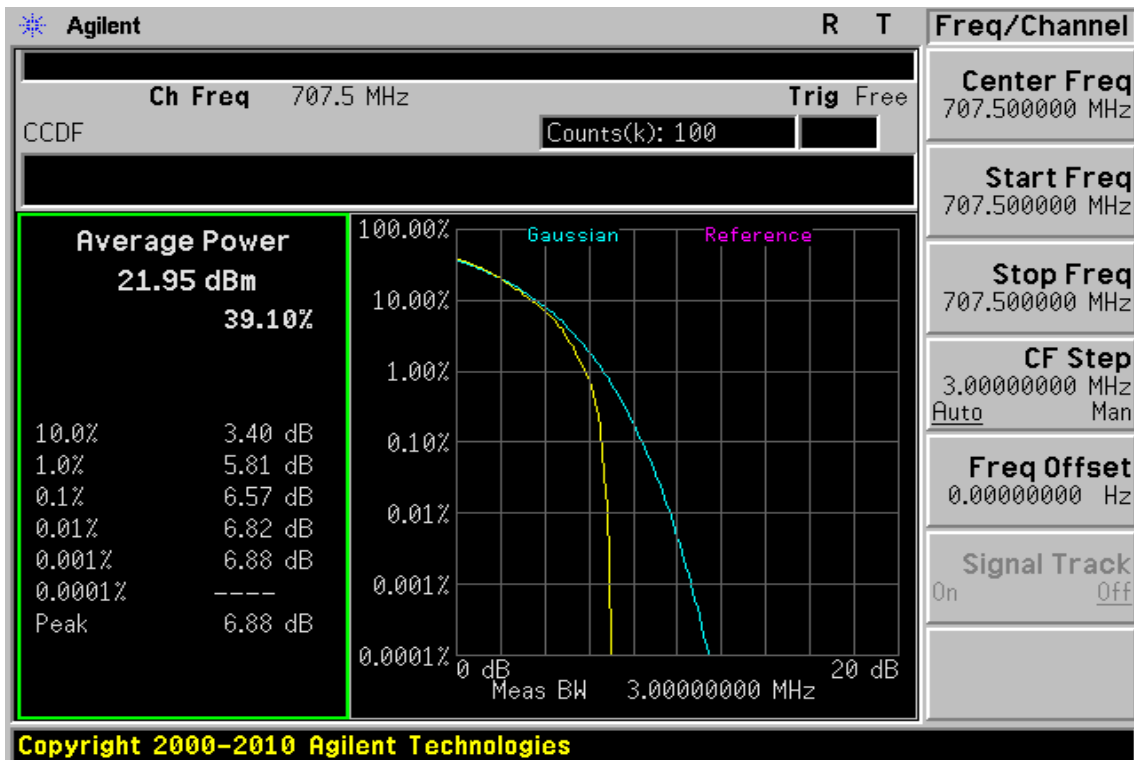
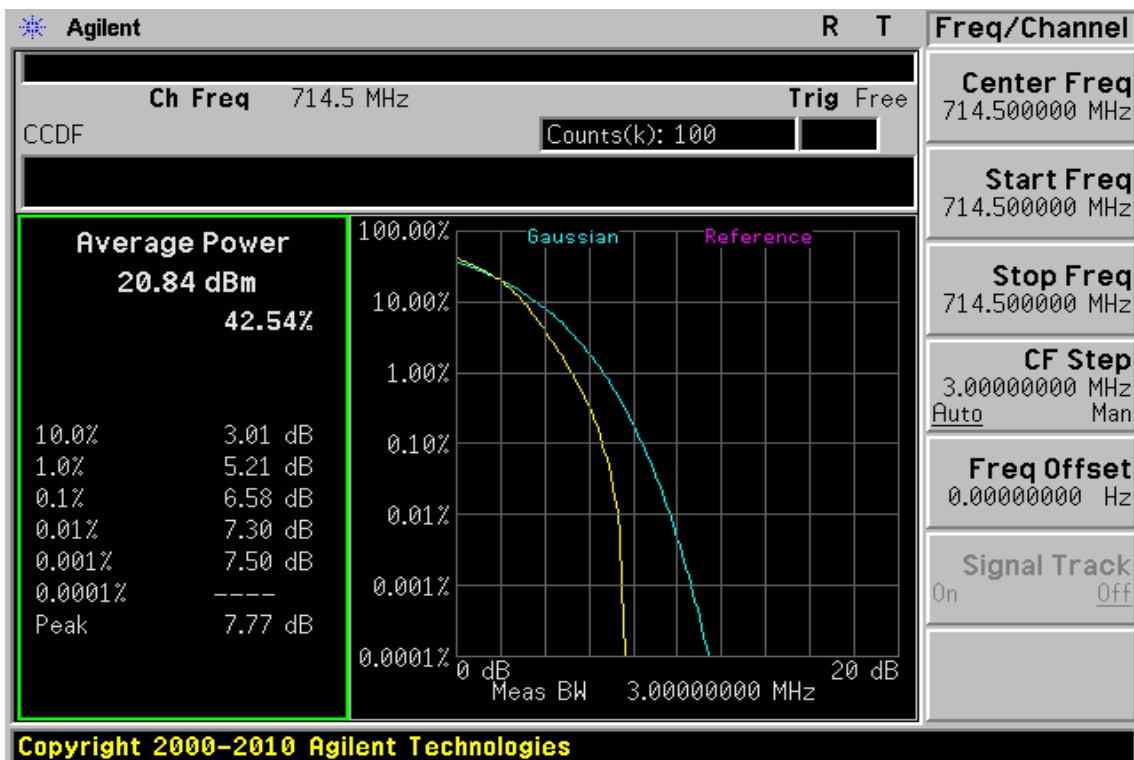


Figure 13-111: 3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-112: 5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel Low

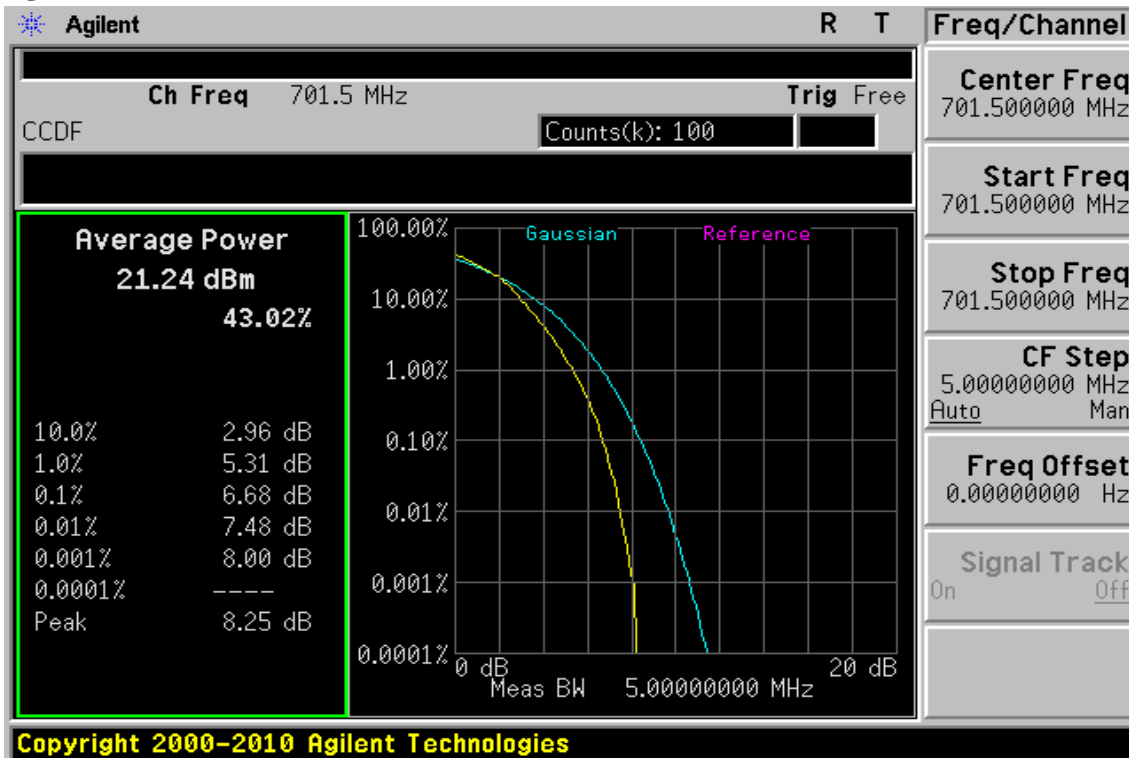
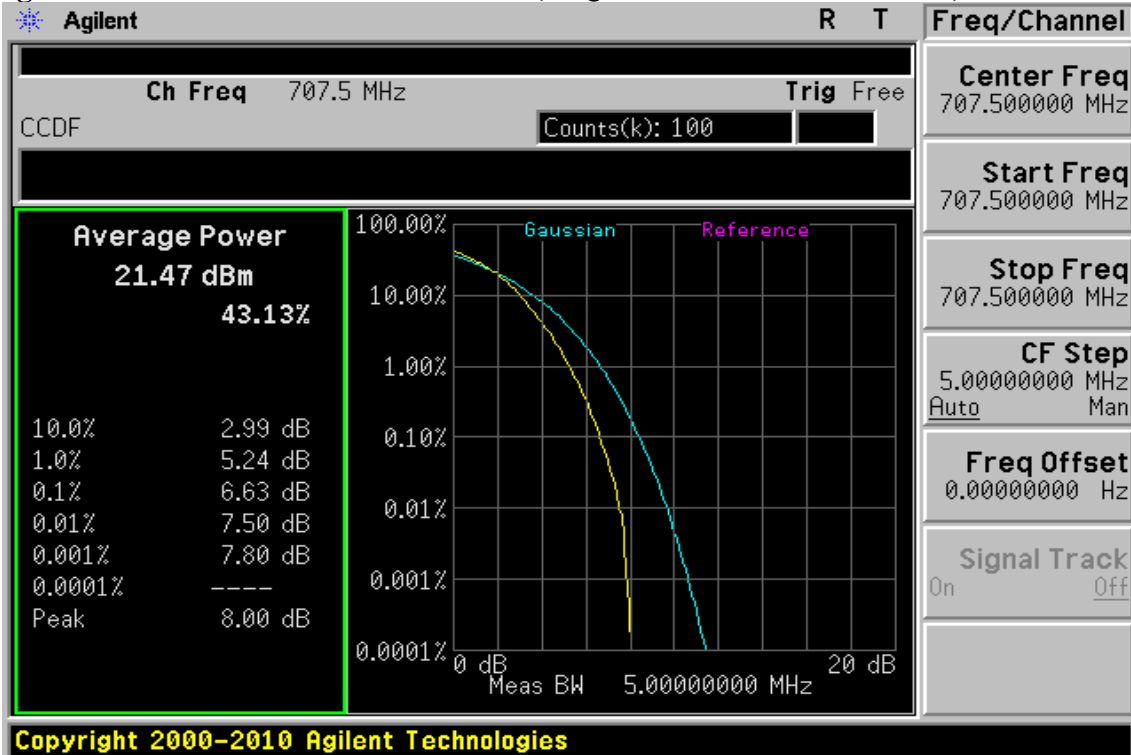


Figure 13-113: 5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel Mid



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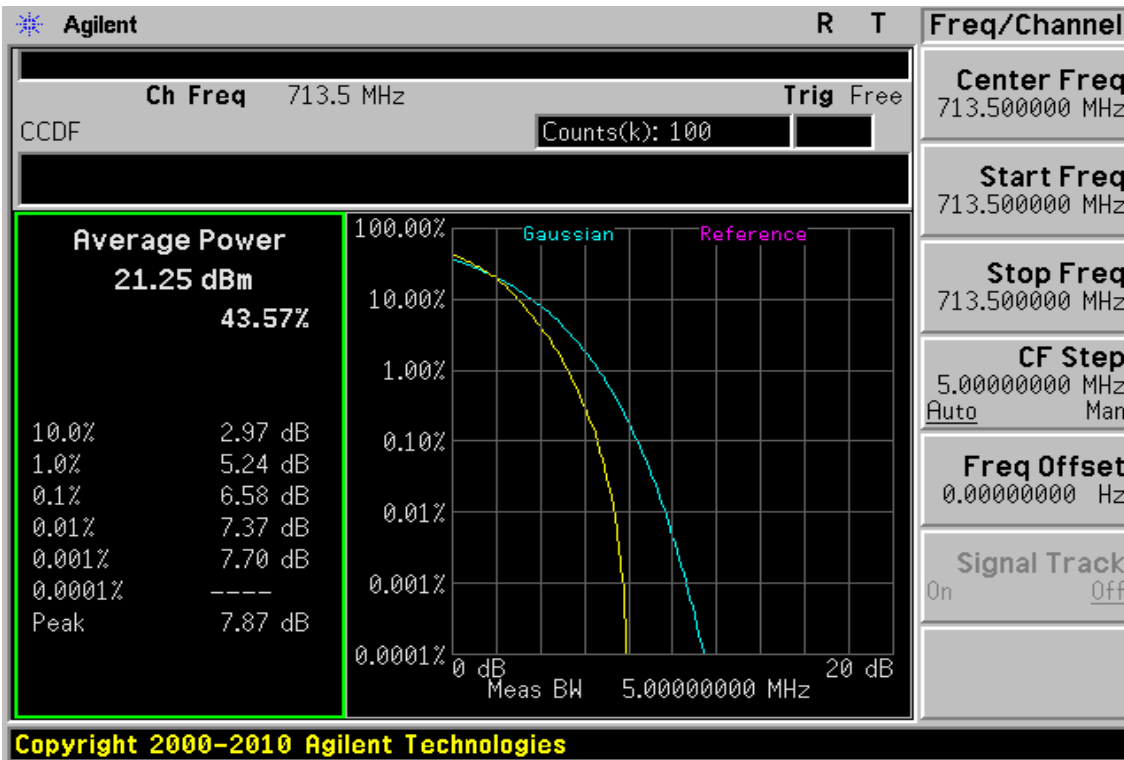
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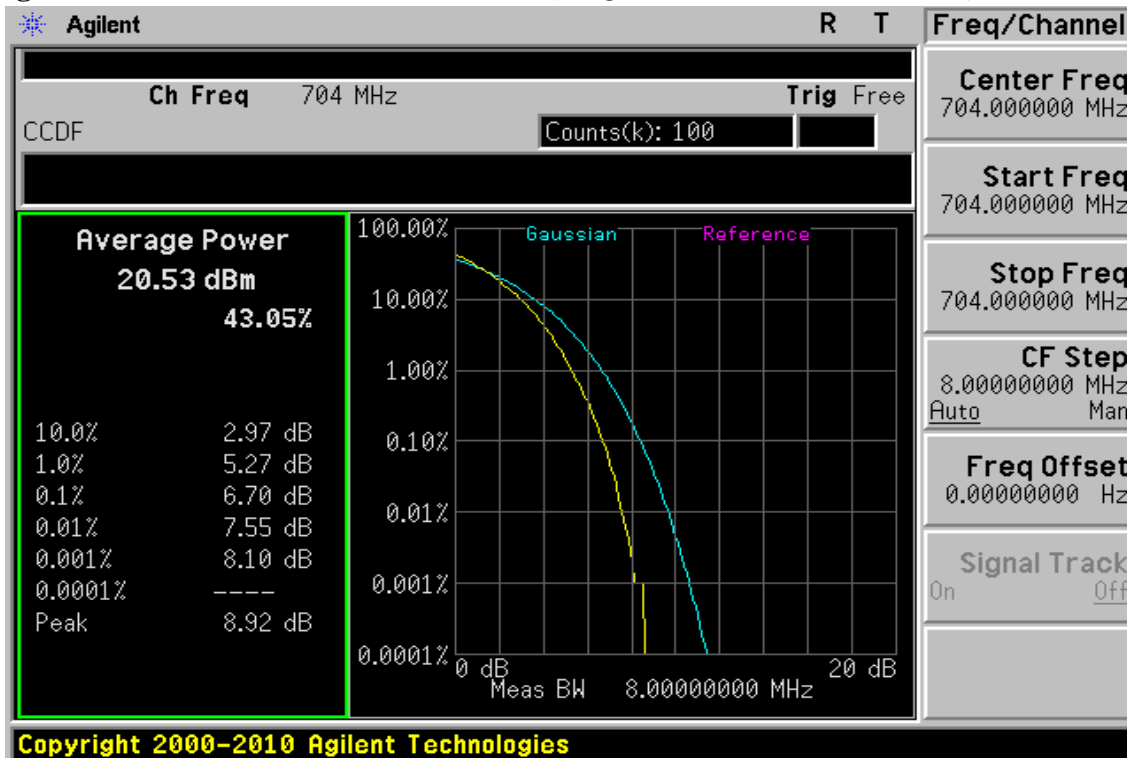
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**Figure 13-114: 5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel High**



**Figure 13-115: 10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel Low**



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Figure 13-116: 10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel Mid

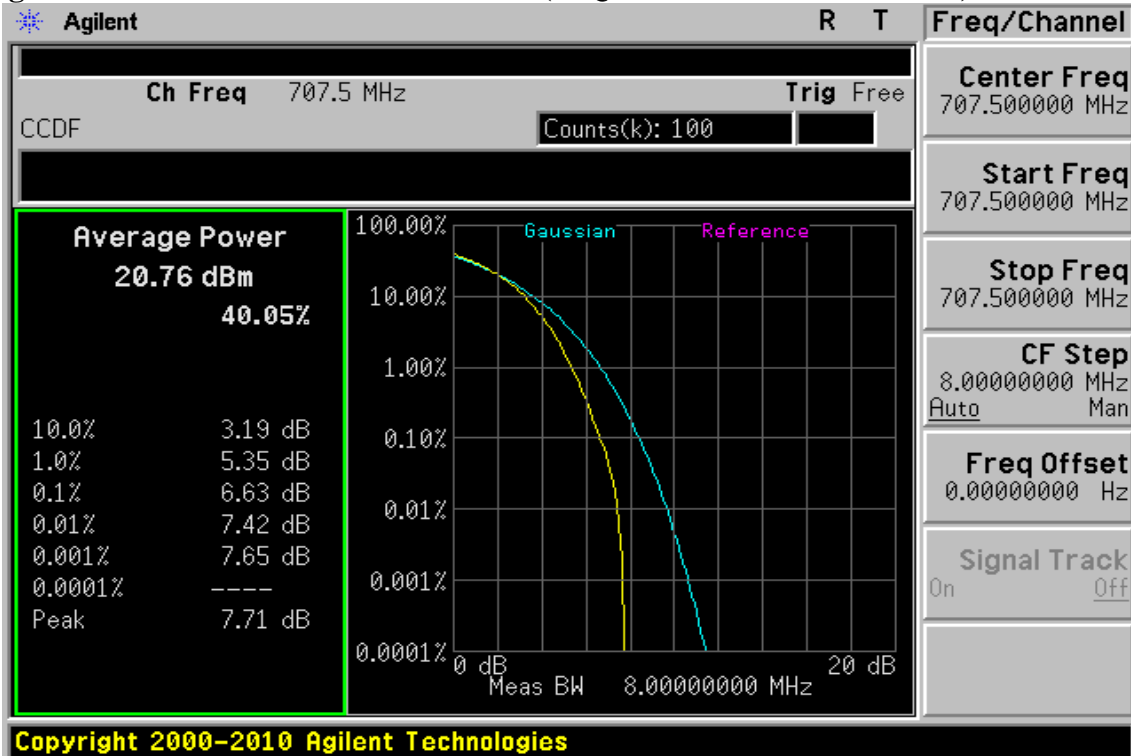
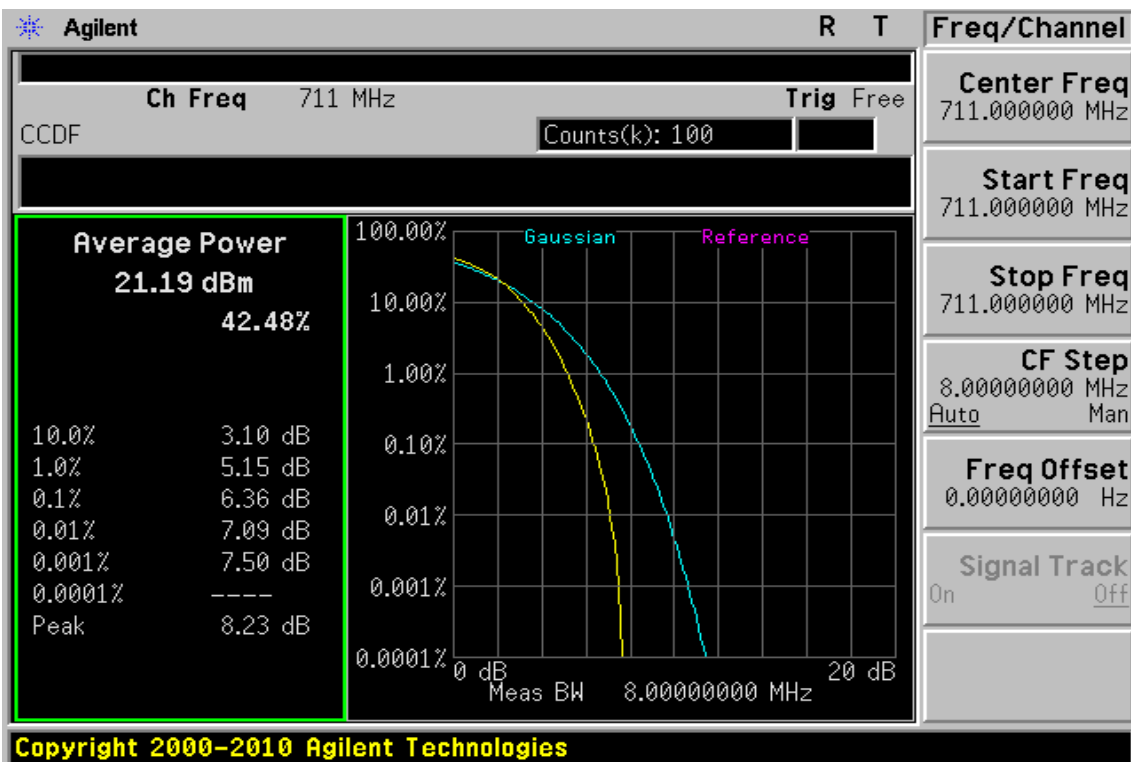


Figure 13-117: 10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-118: 5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel Low

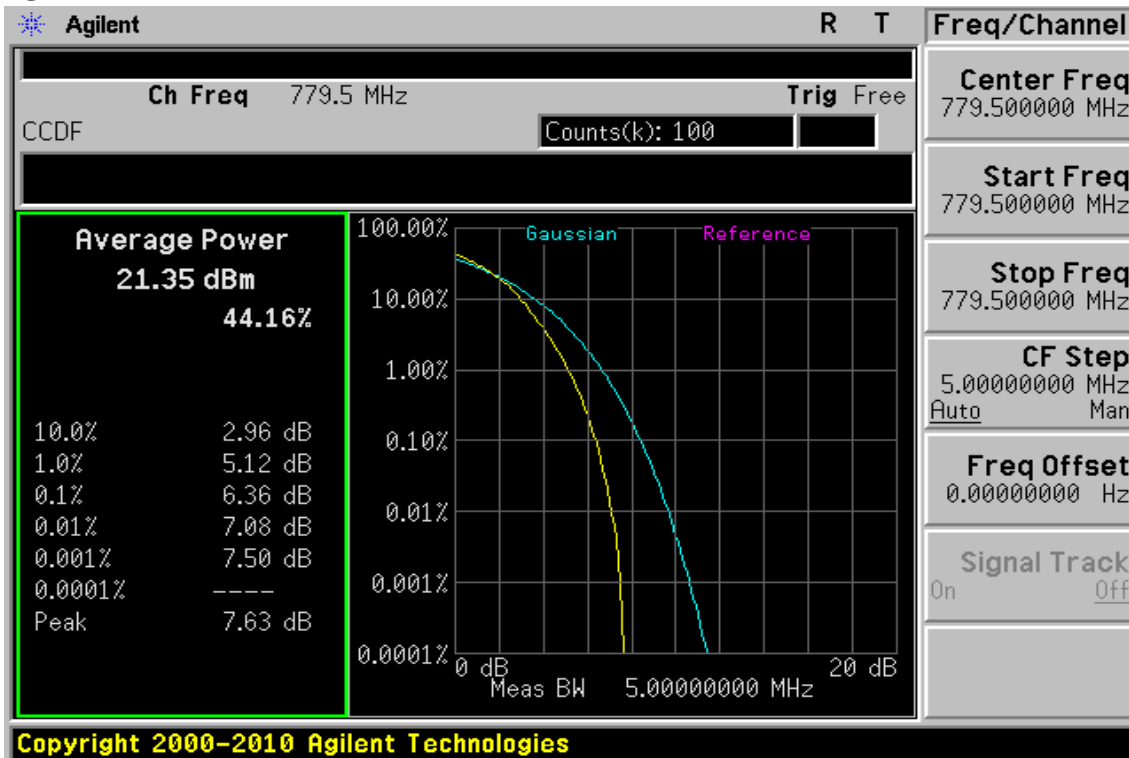
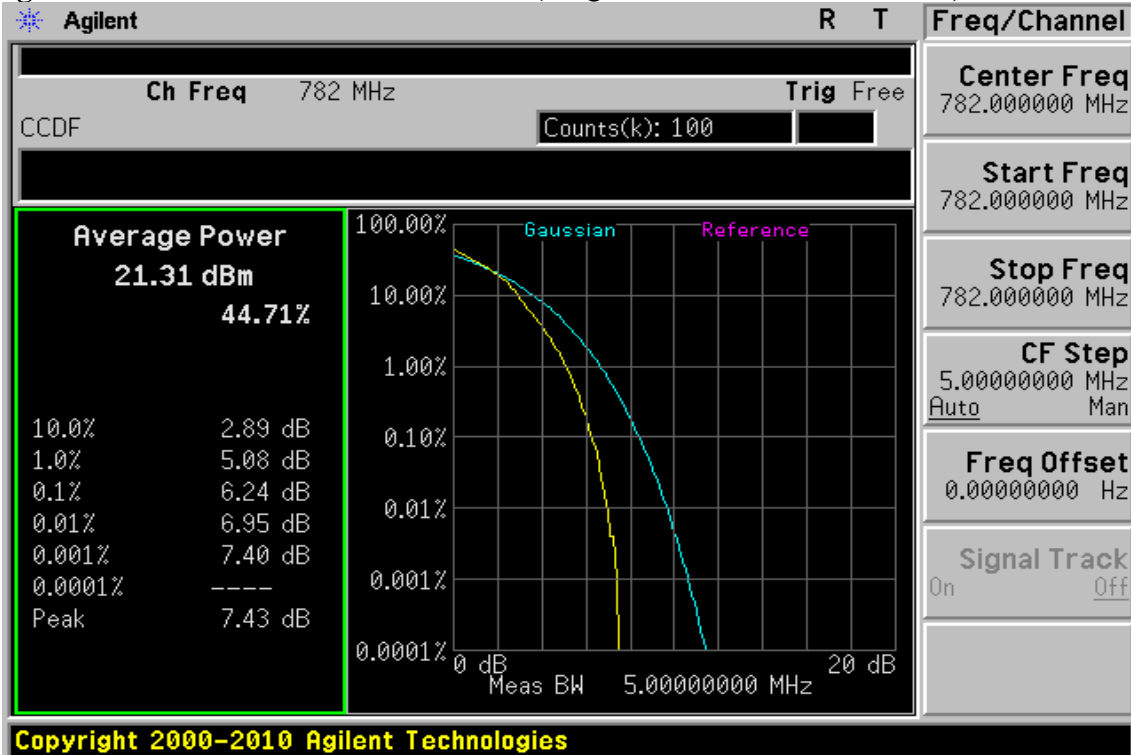


Figure 13-119: 5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-120: 5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel High

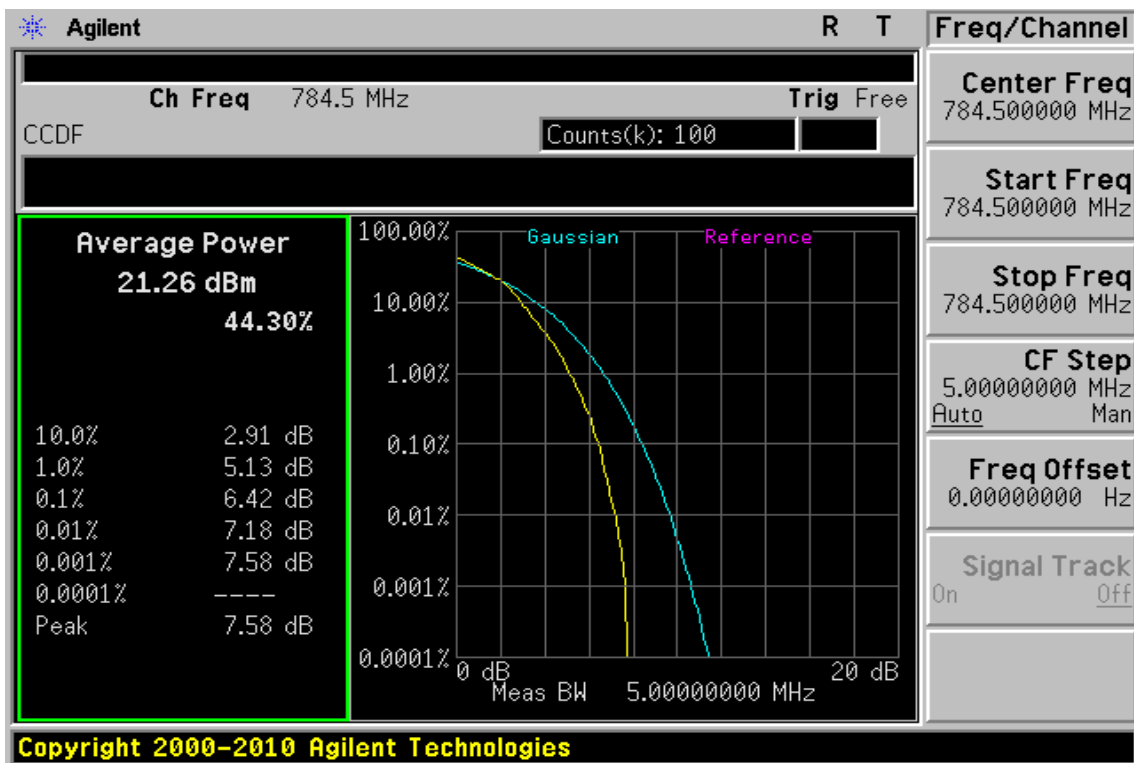
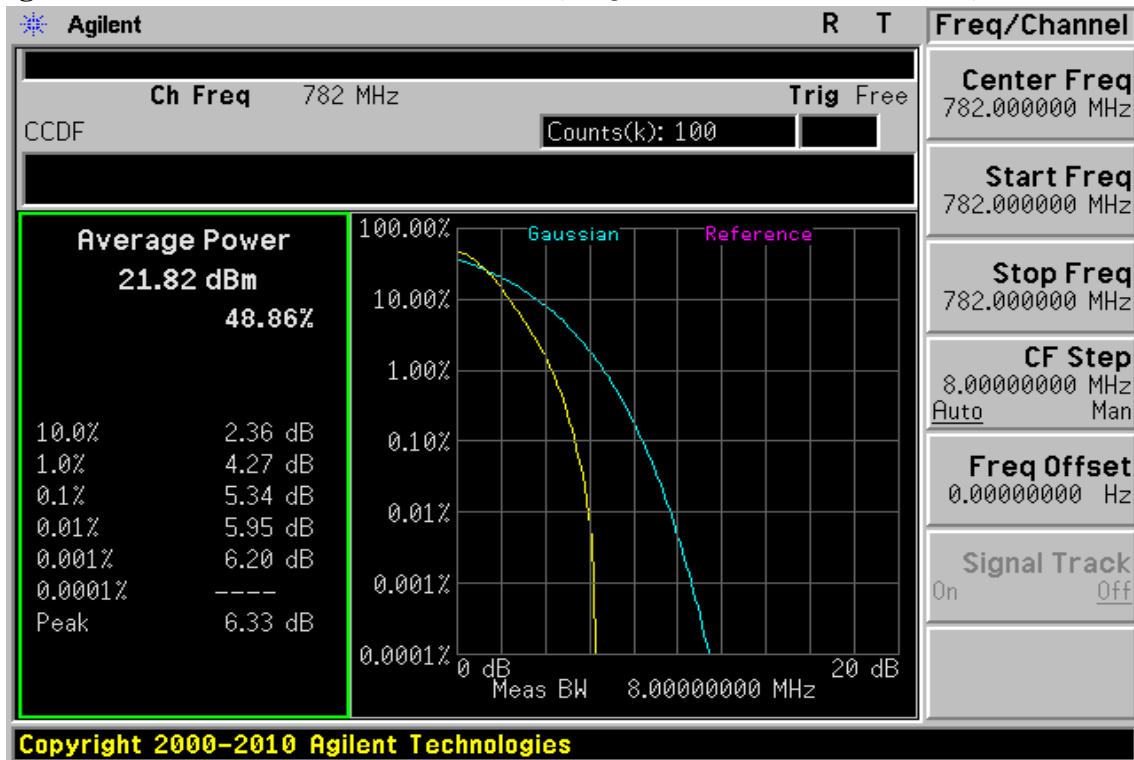


Figure 13-121: 10MHz BW LTE-Band 13(16QAM Number: 50 Offset: 0) Channel Mid



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Figure 13-122: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Low

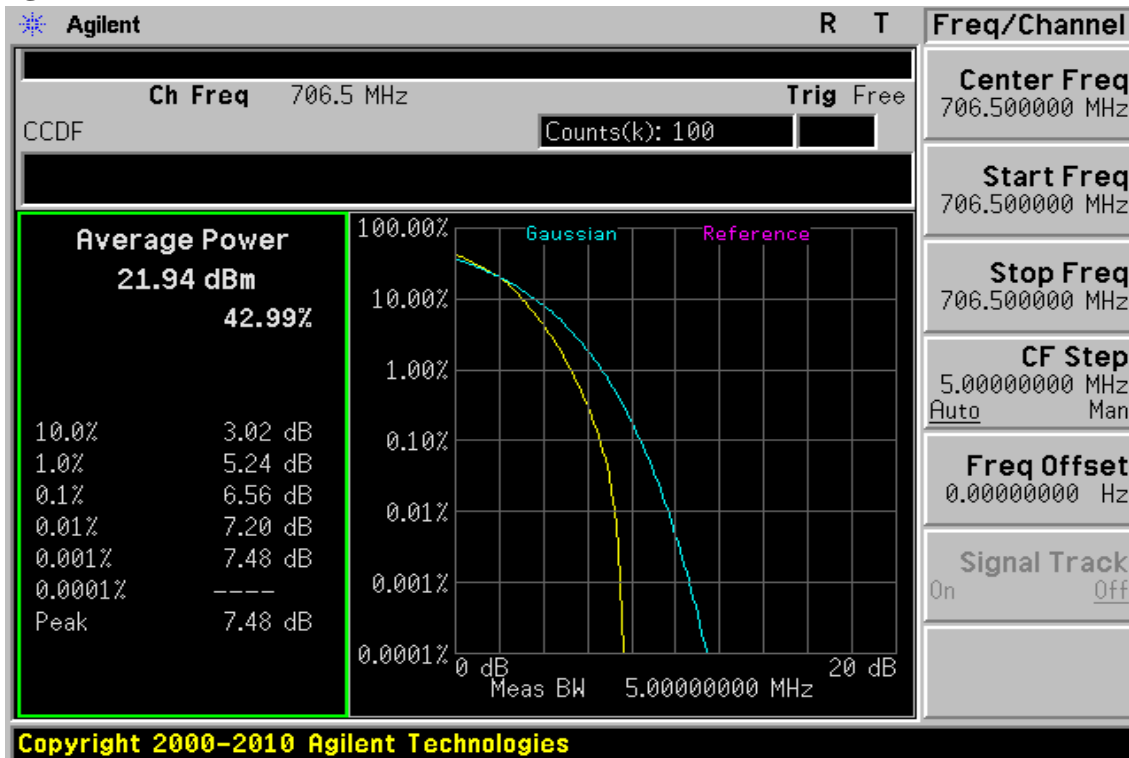
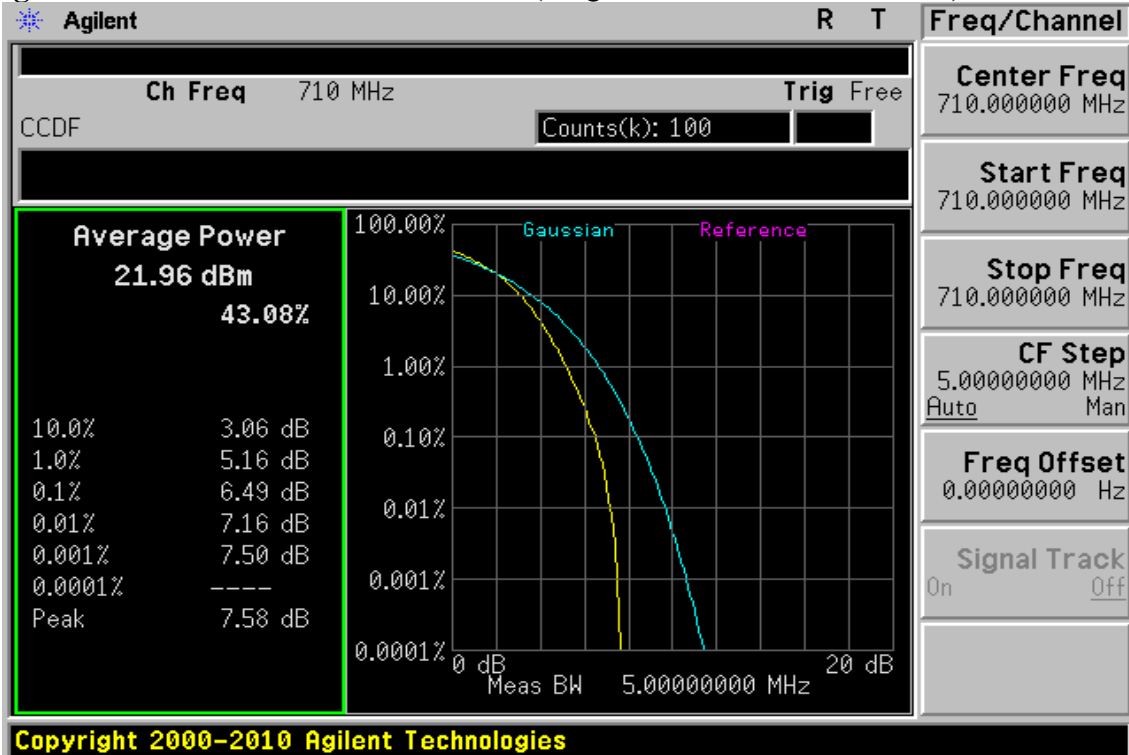


Figure 13-123: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-124: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel High

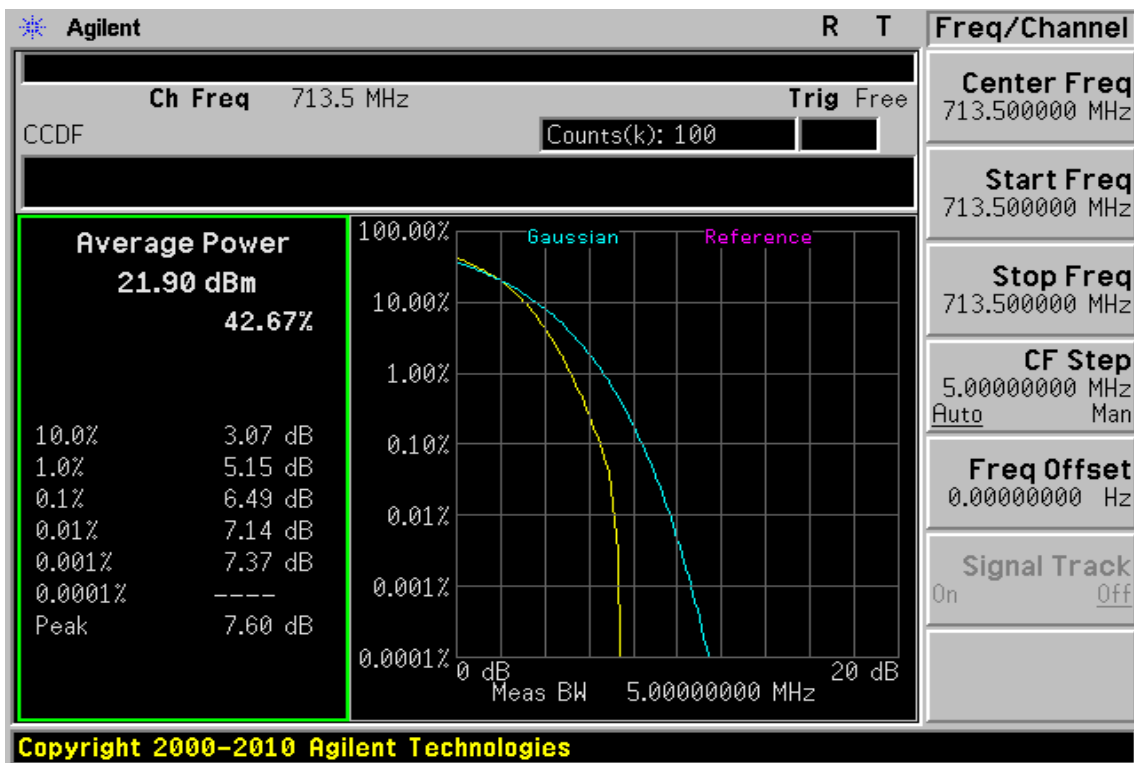
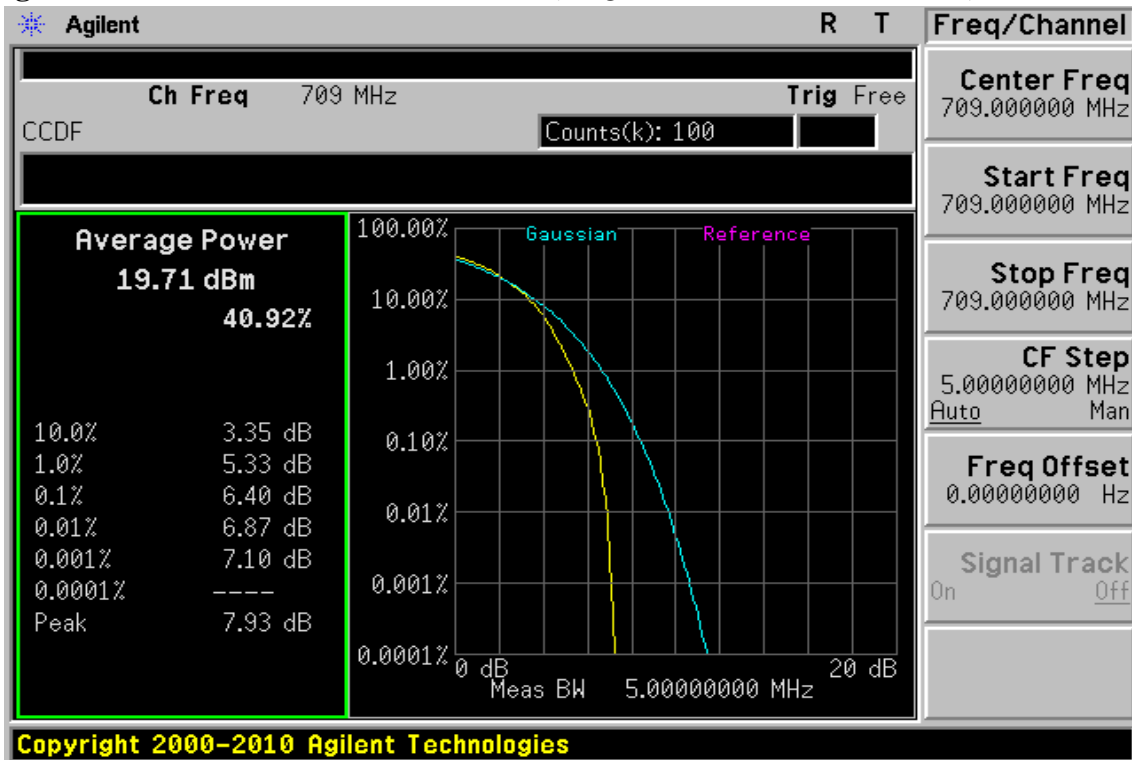


Figure 13-125: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-126: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Mid

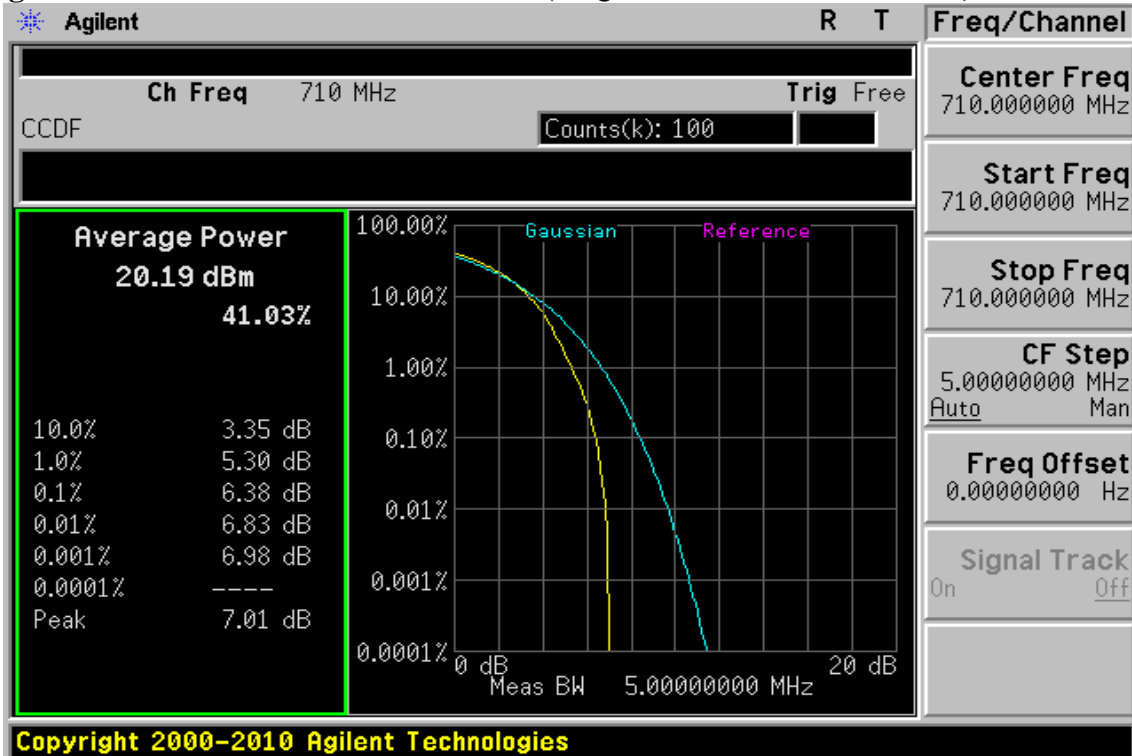
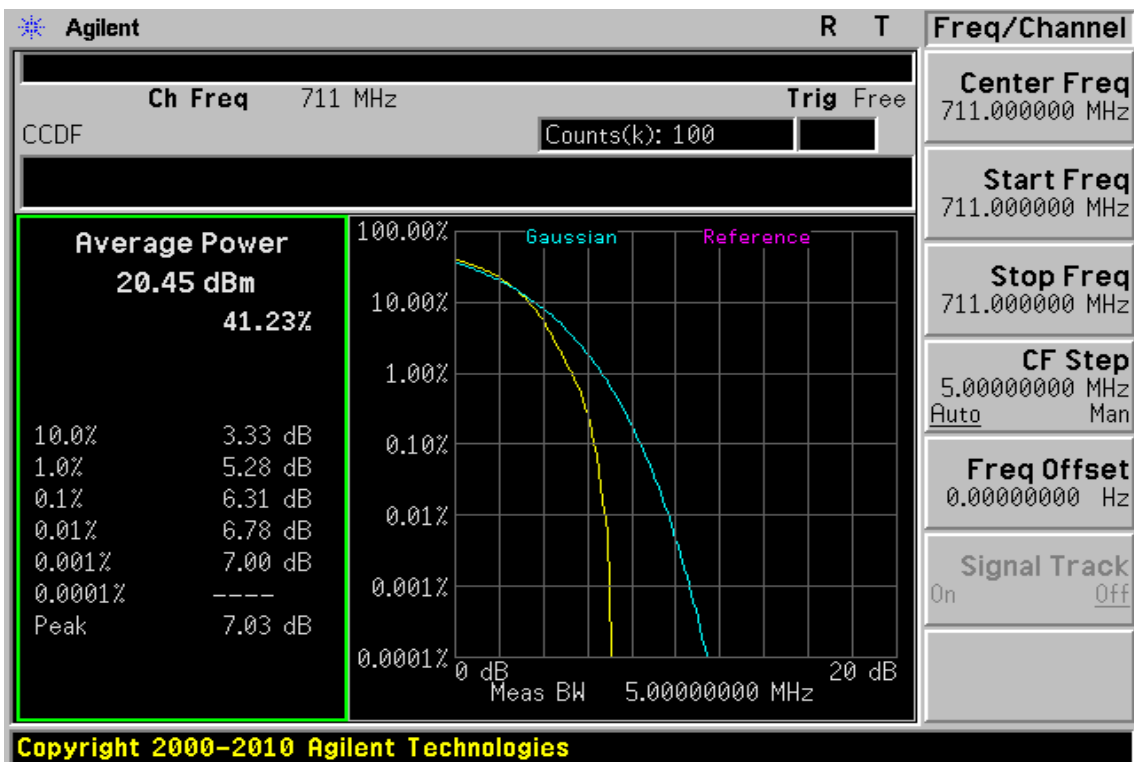


Figure 13-127: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel High



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# APPENDIX 1

## MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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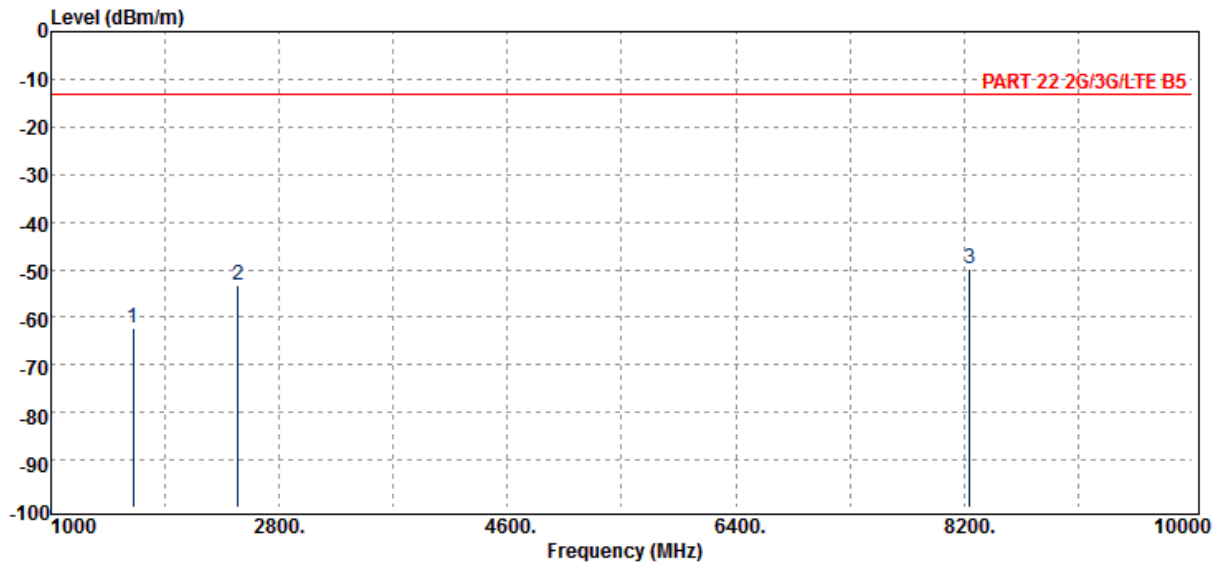
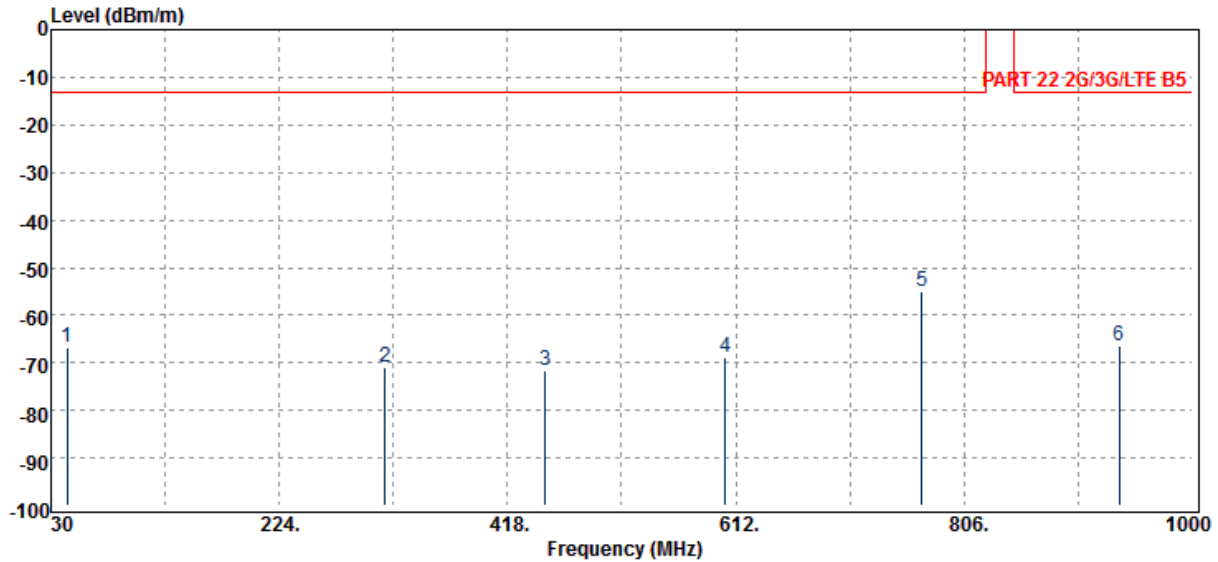
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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

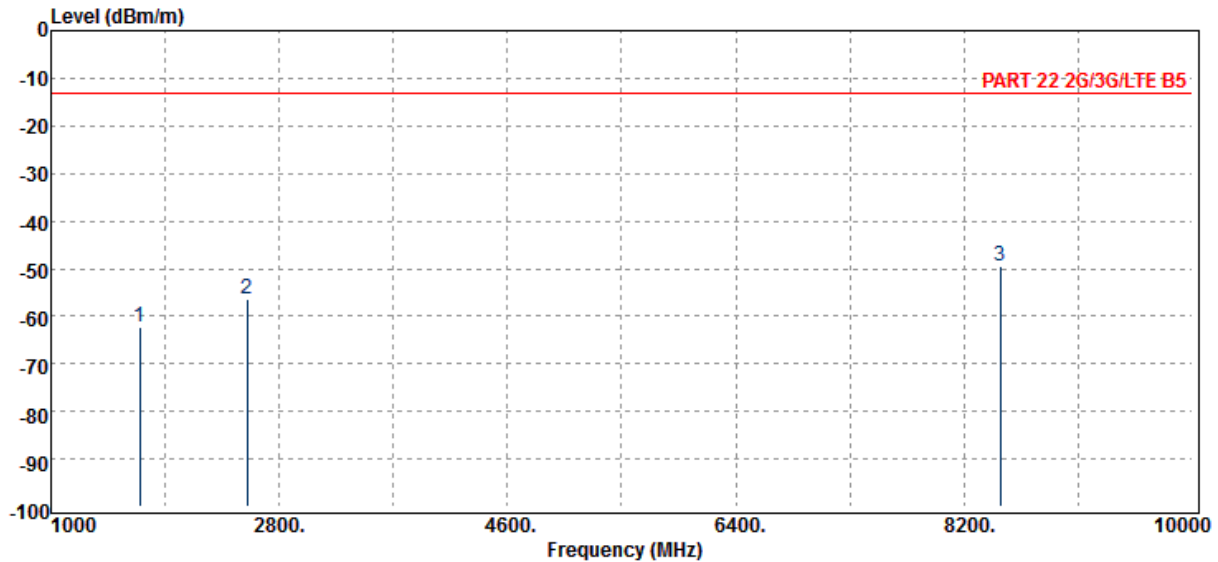
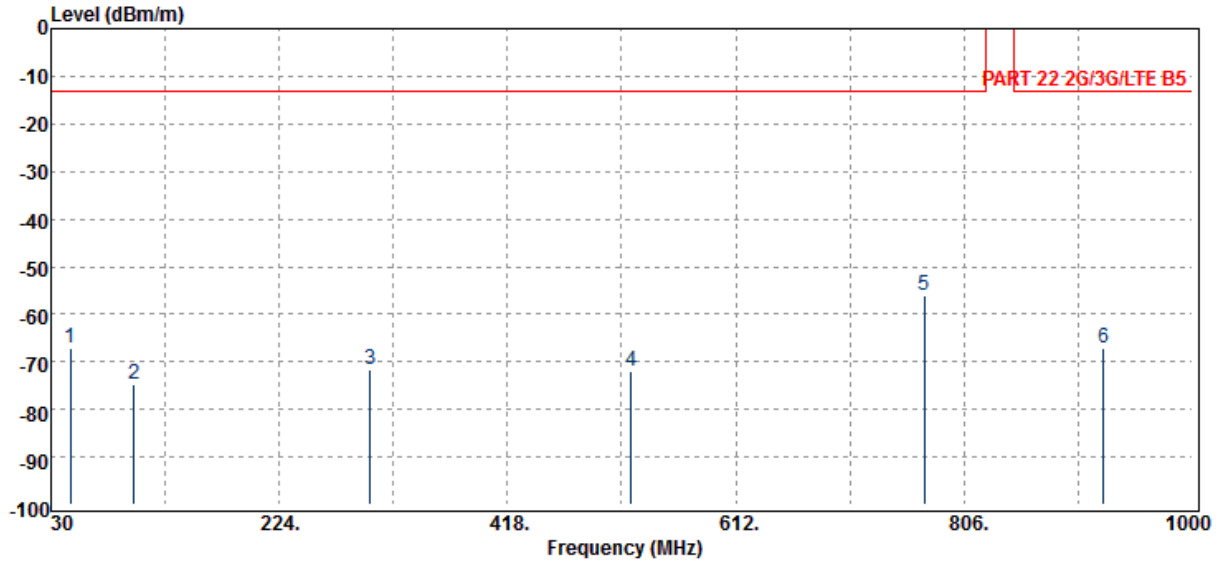
ARFCN	:CH 128	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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ARFCN	:CH 128	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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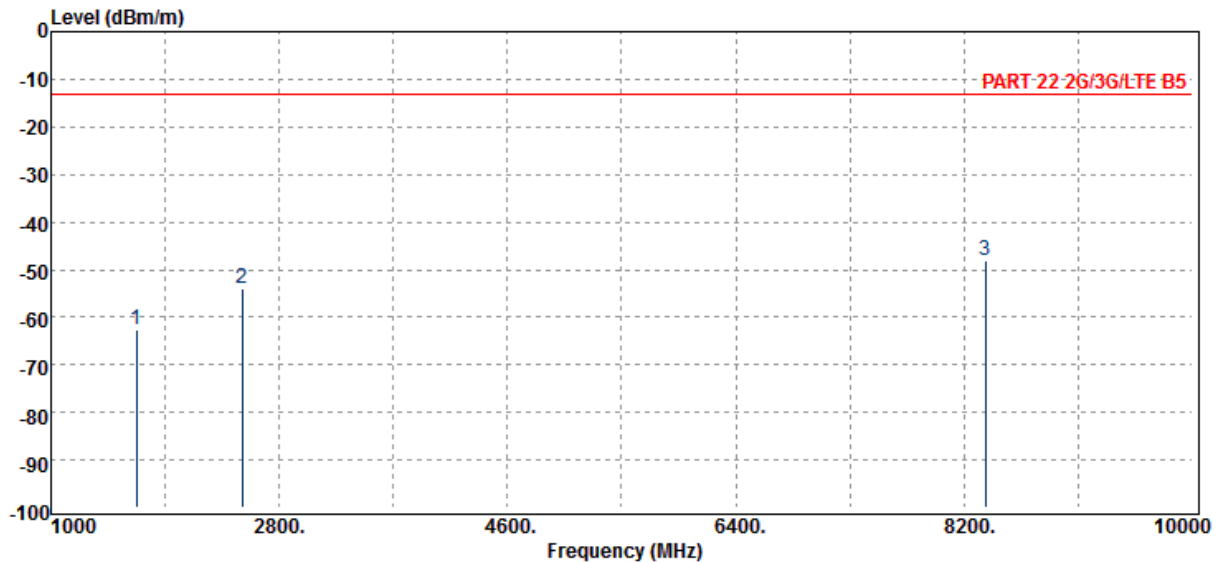
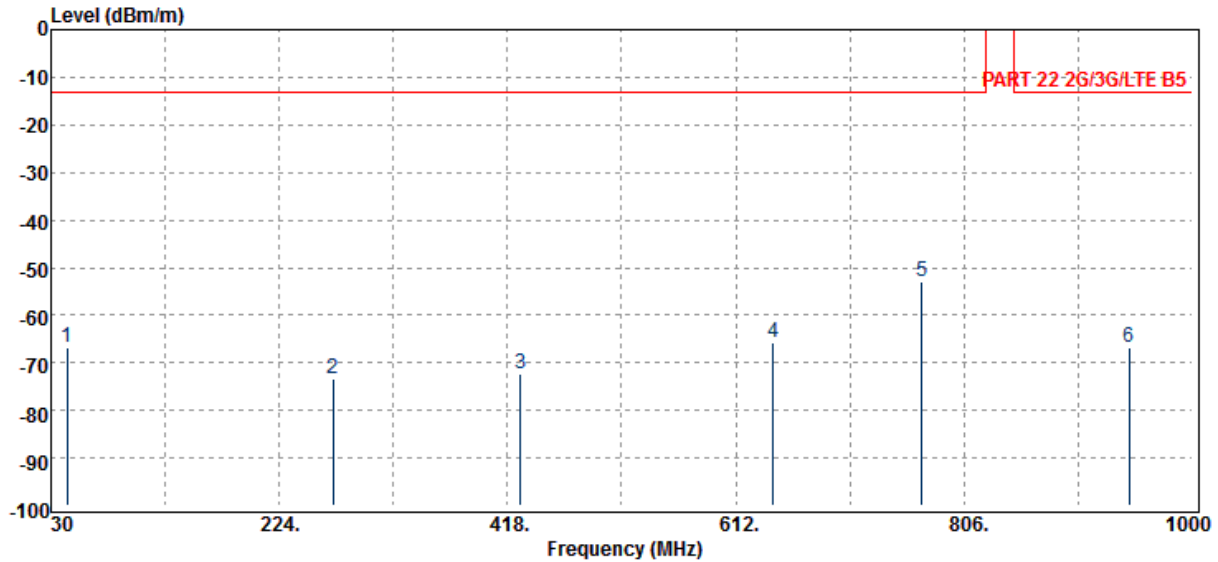
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ARFCN	:CH 190	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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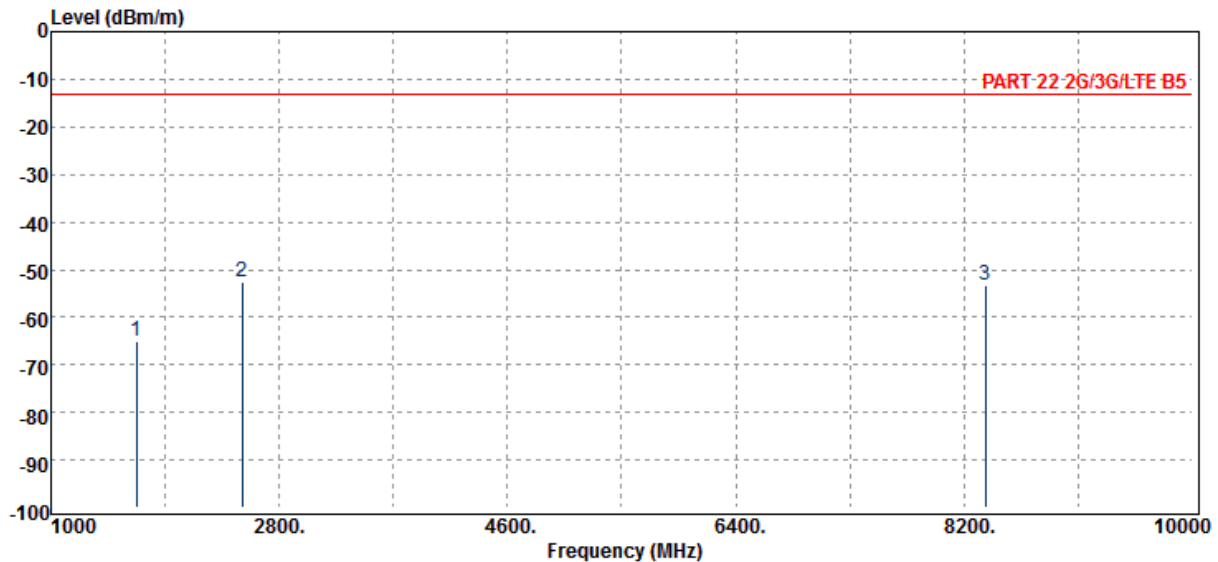
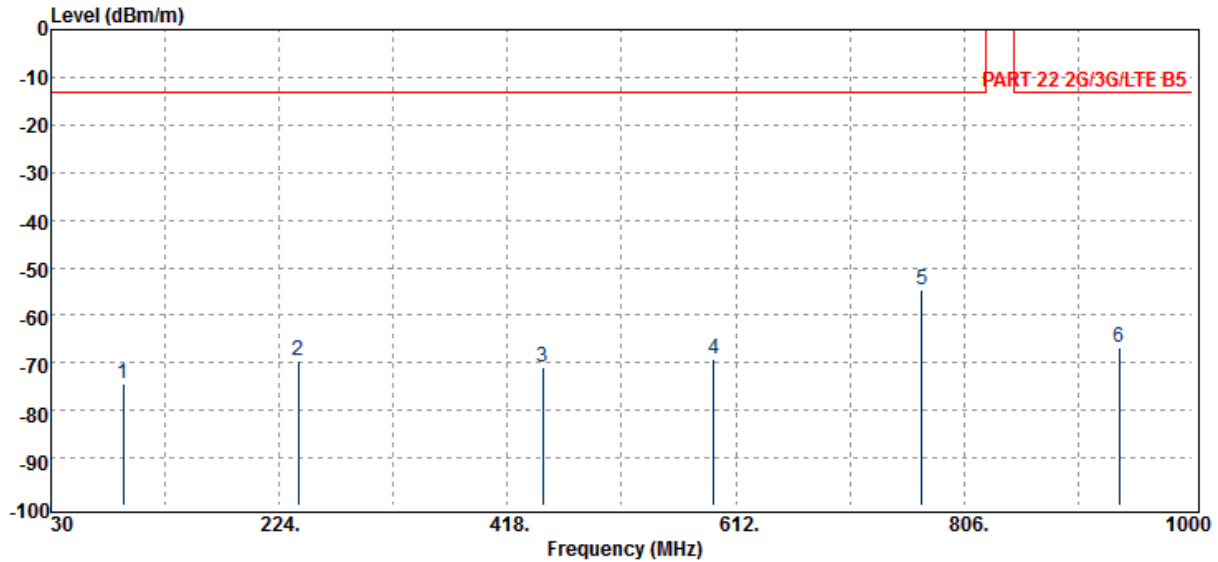
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ARFCN	:CH 190	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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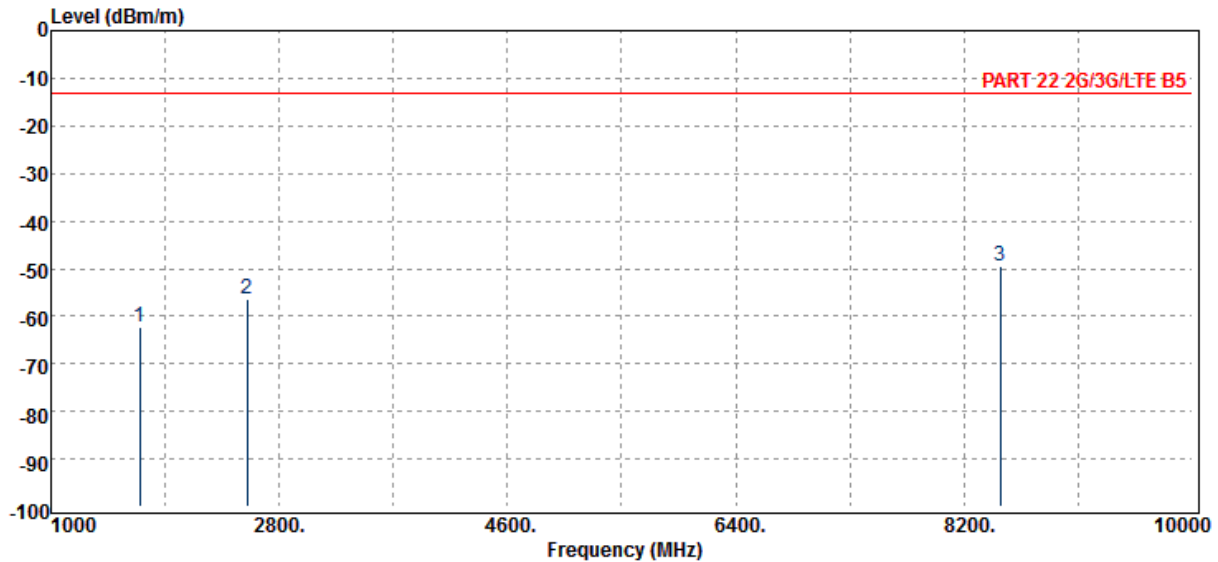
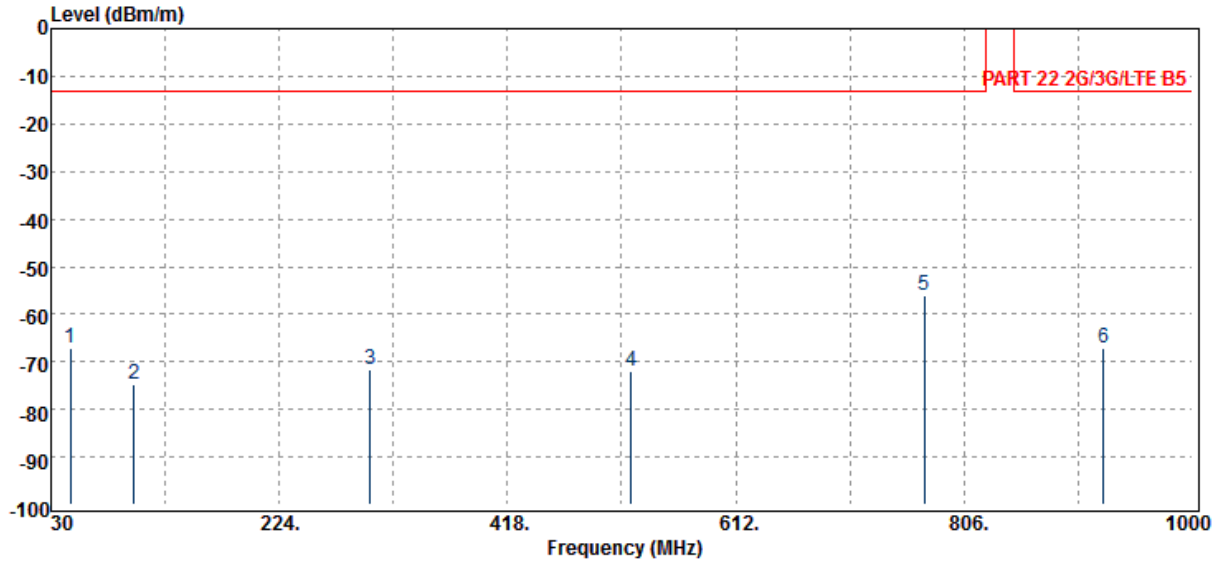
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ARFCN	:CH 251	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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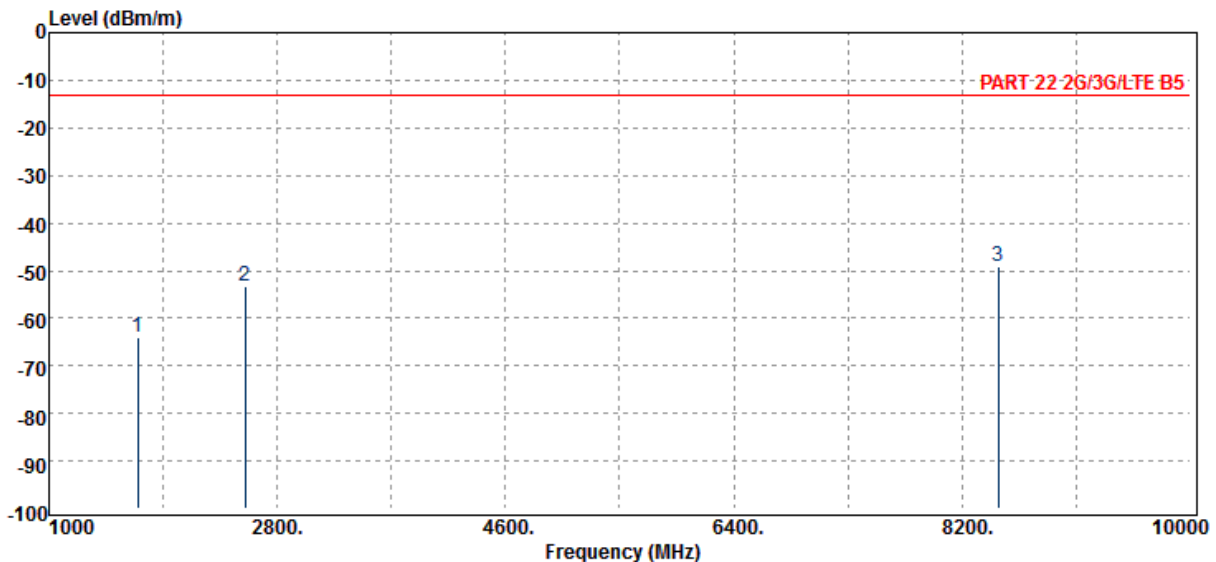
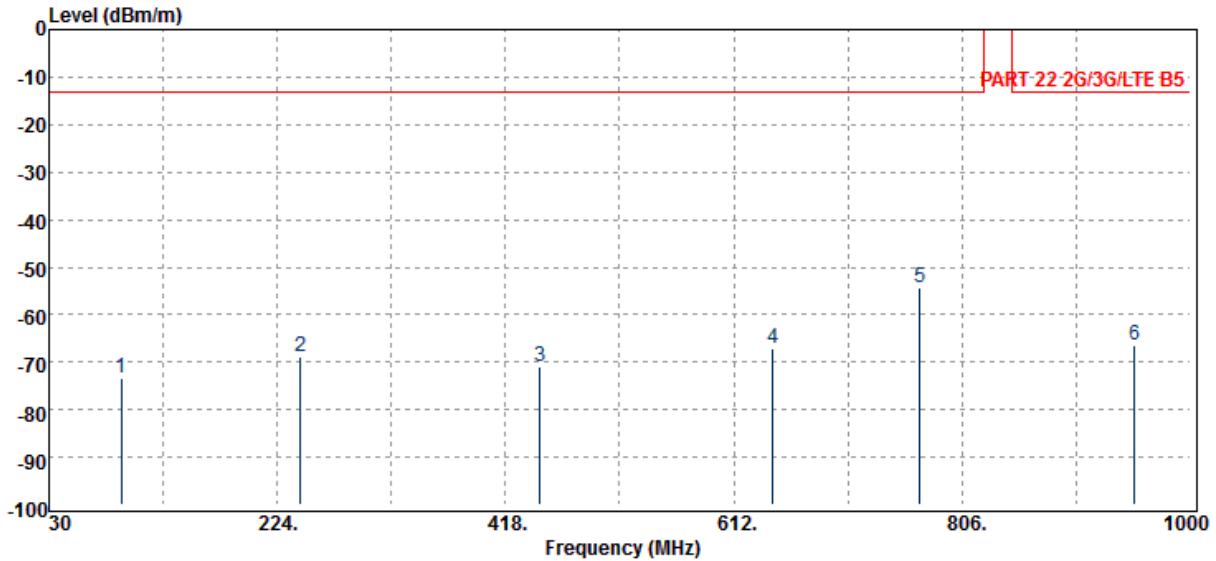
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ARFCN	:CH 251	Test Date	:2014-11-19
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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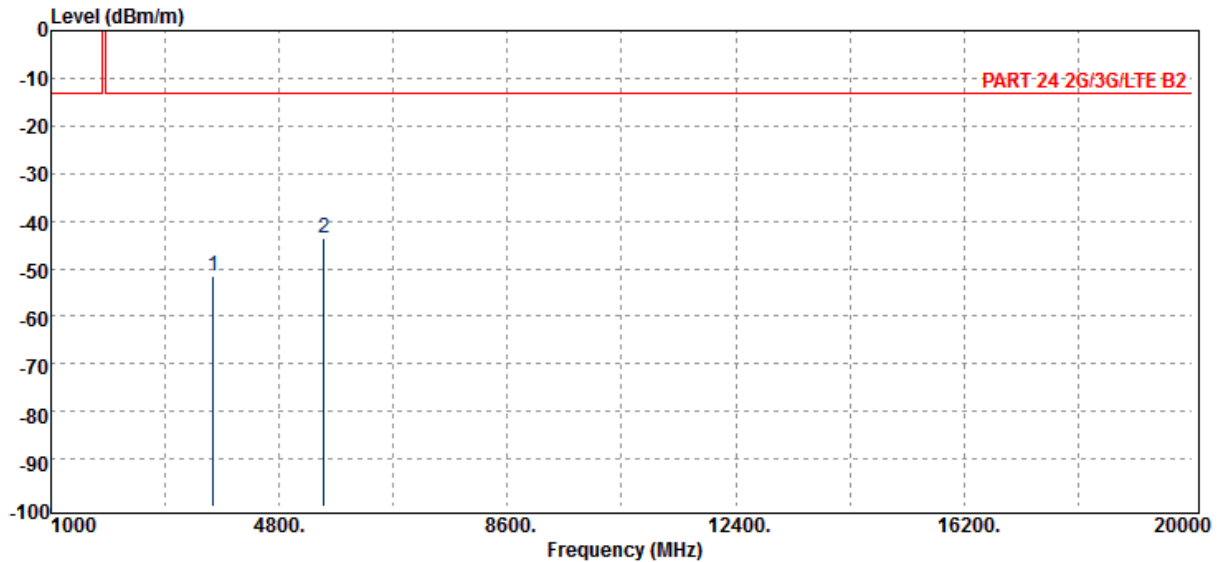
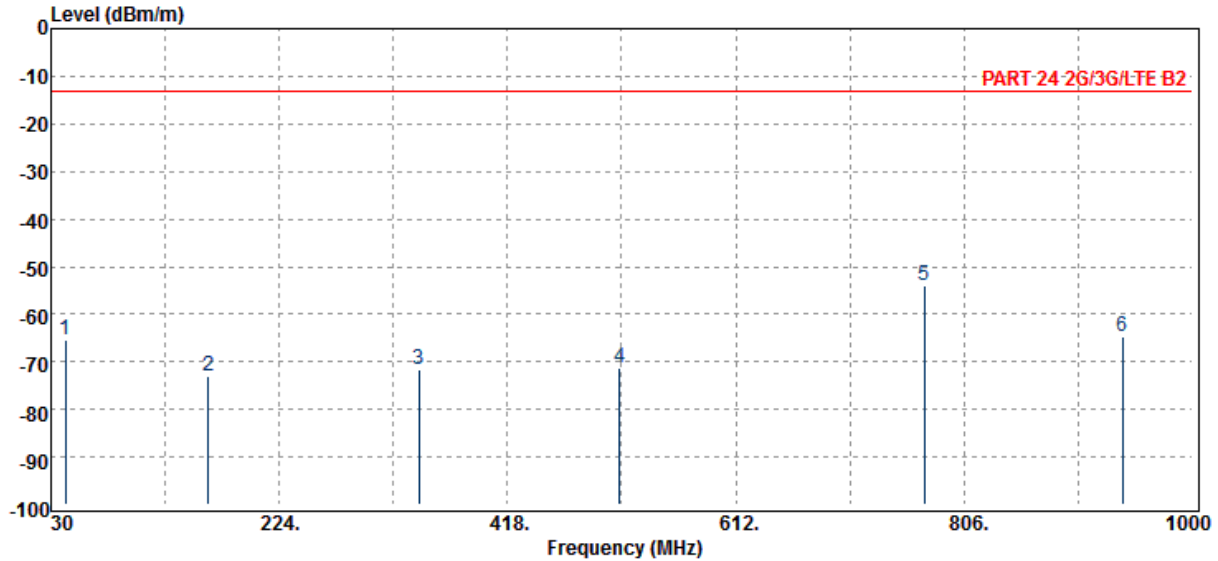
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**Radiated Spurious Emission Measurement Result: GSM 1900 Mode**

ARFCN	:CH 512	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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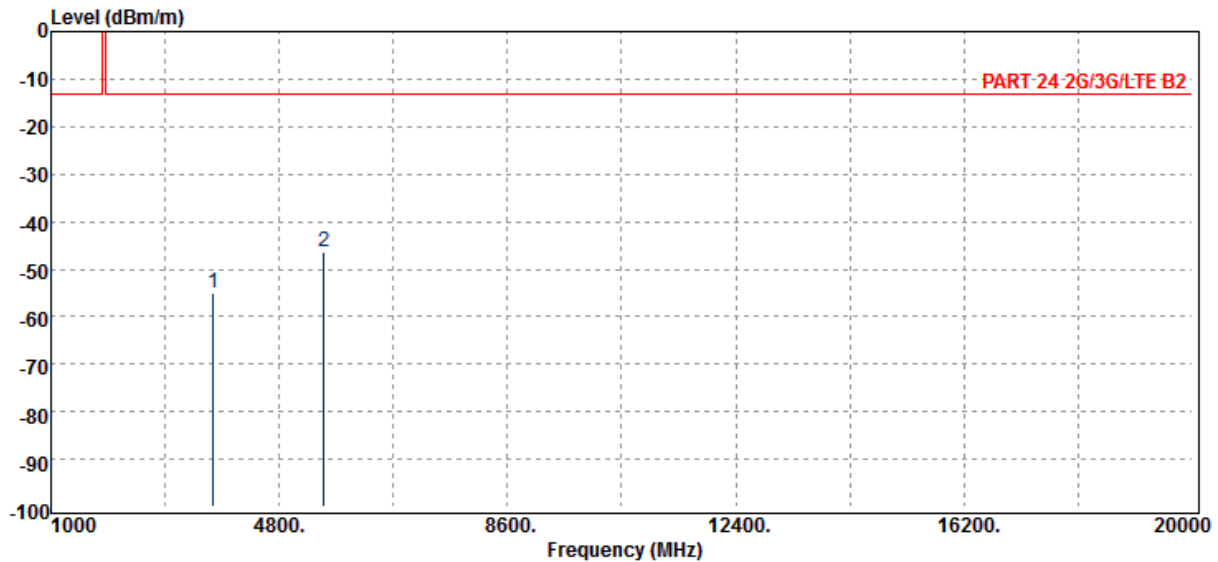
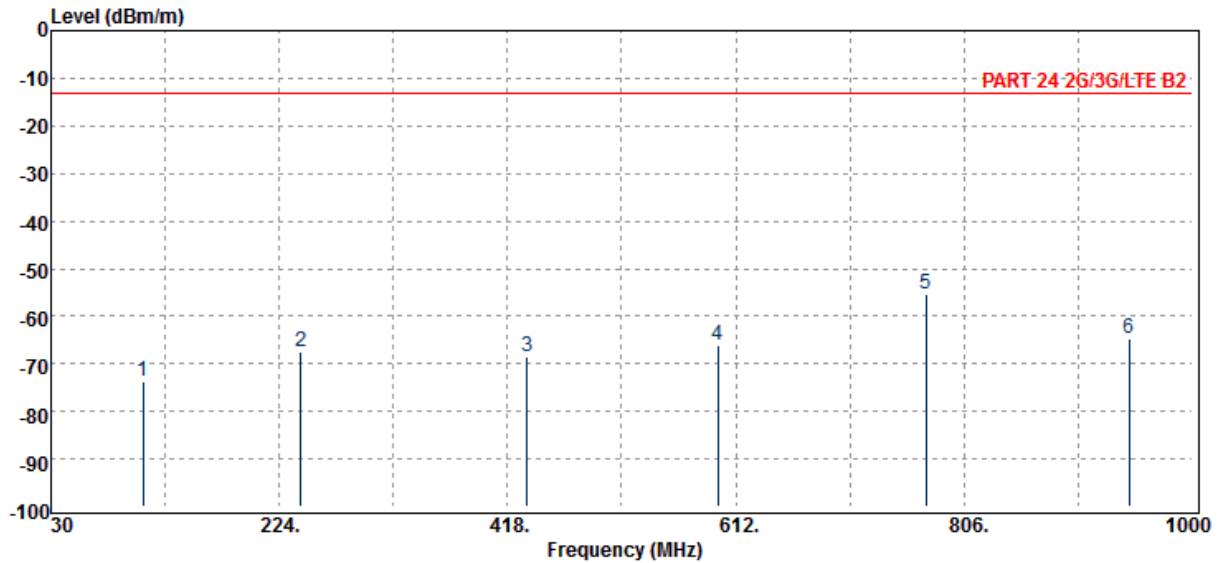
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ARFCN	:CH 512	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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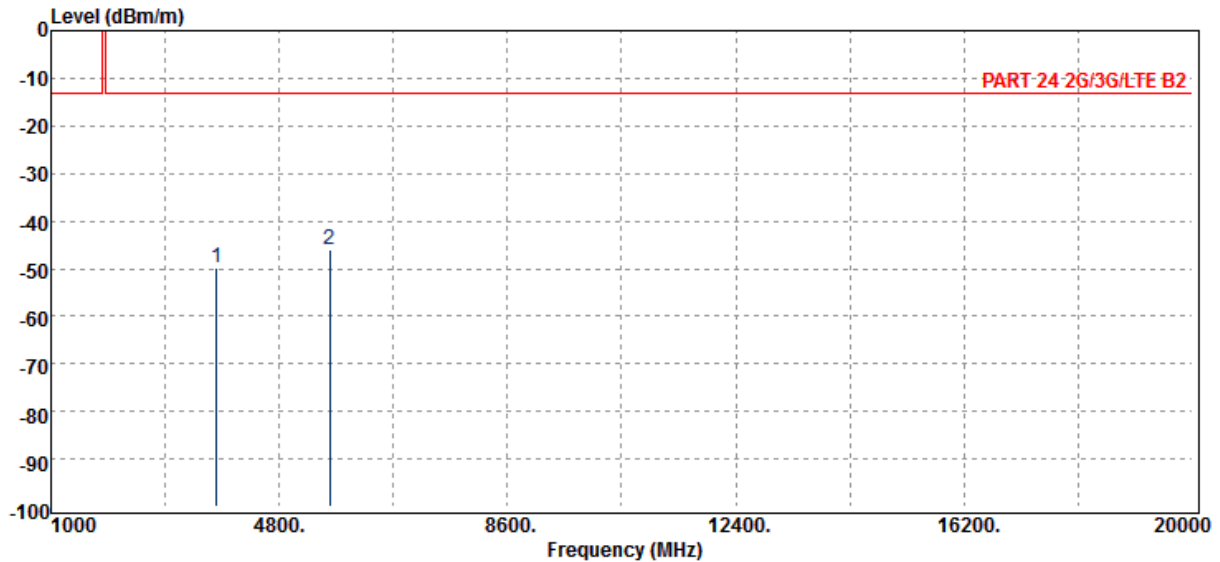
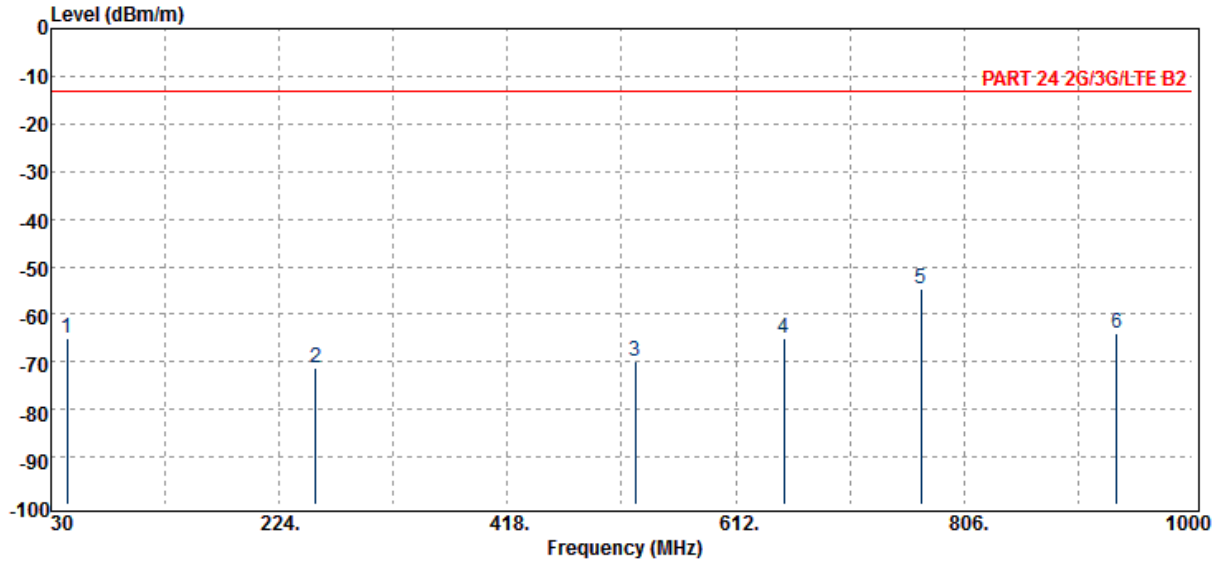
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ARFCN	:CH 661	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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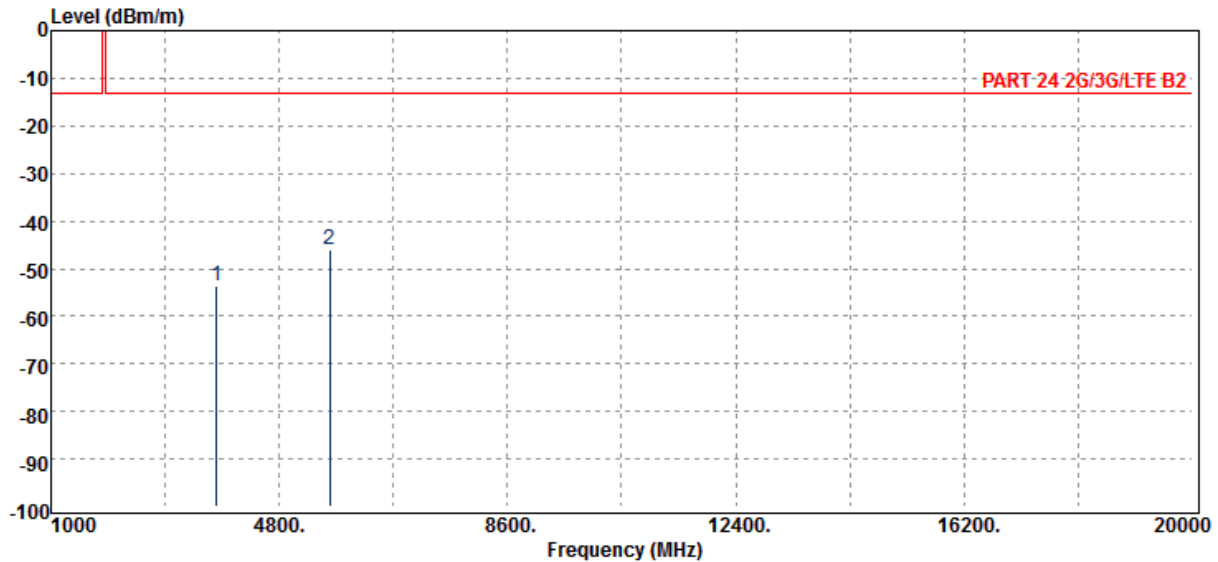
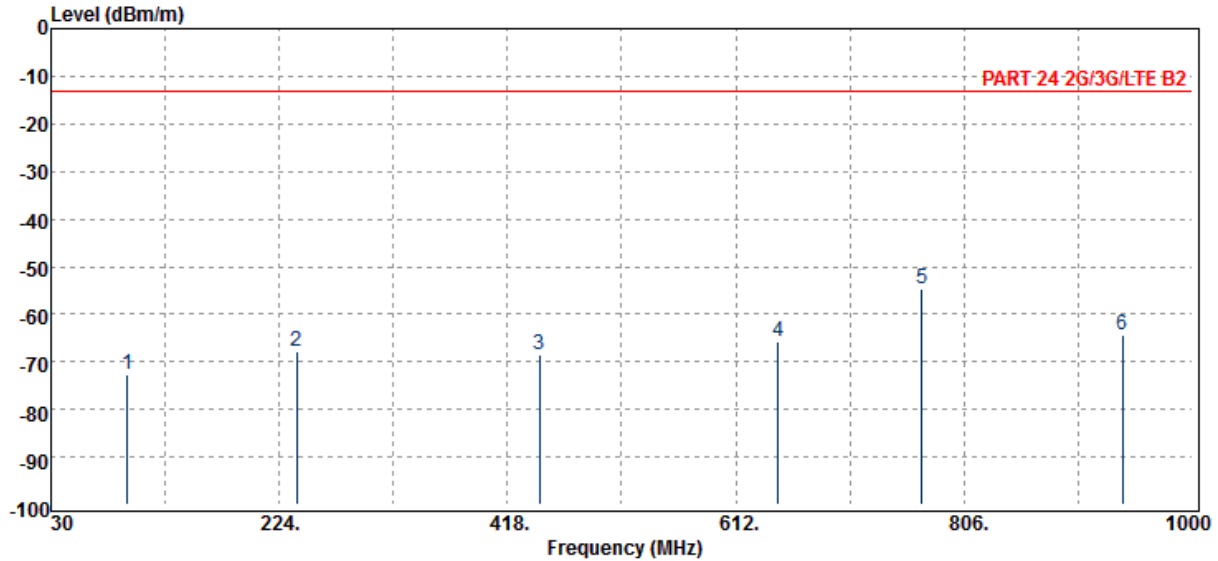
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ARFCN	:CH 661	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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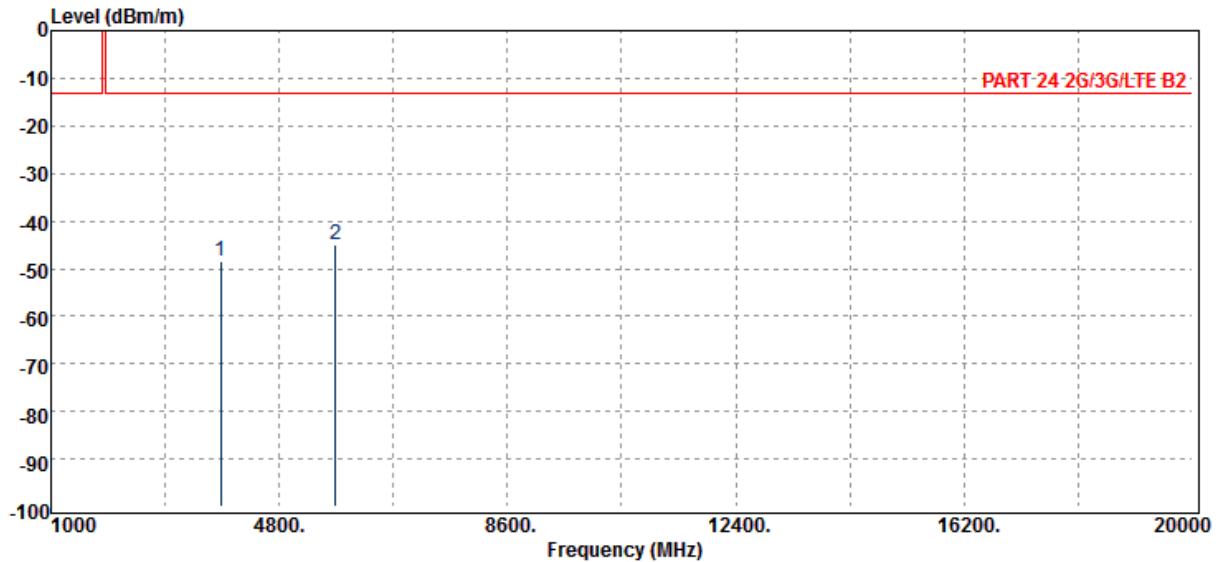
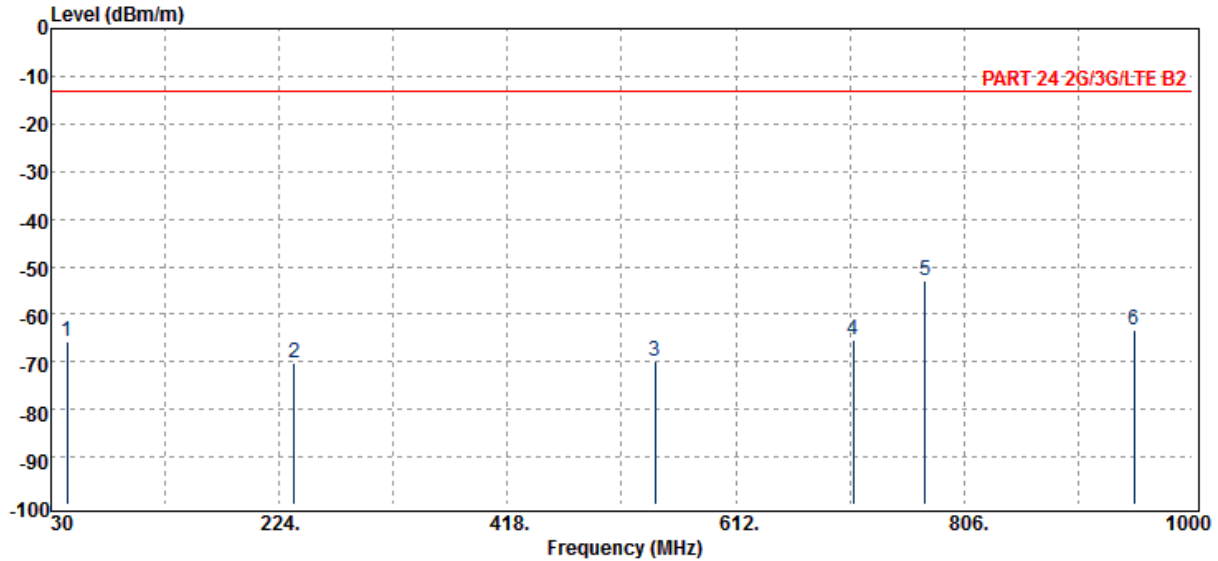
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ARFCN	:CH 810	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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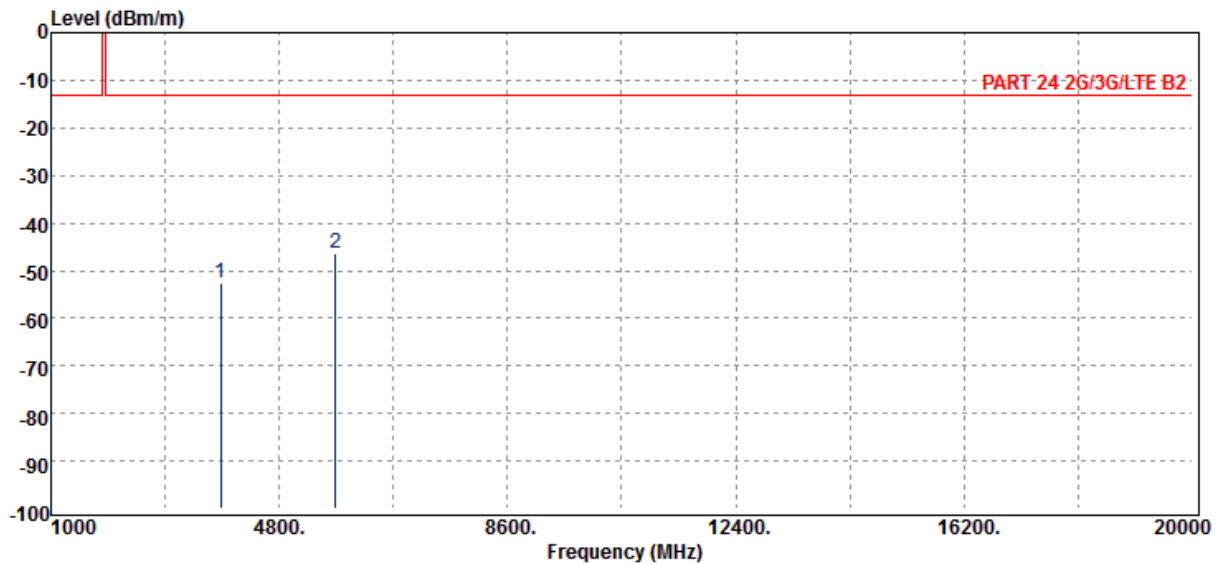
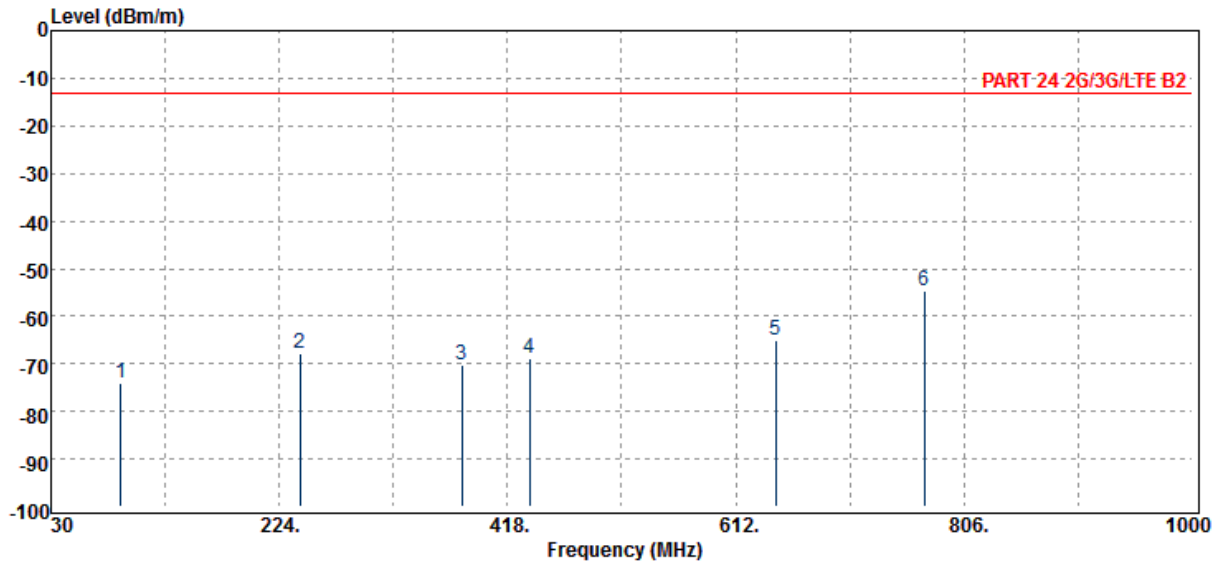
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ARFCN	:CH 810	Test Date	:2014-11-20
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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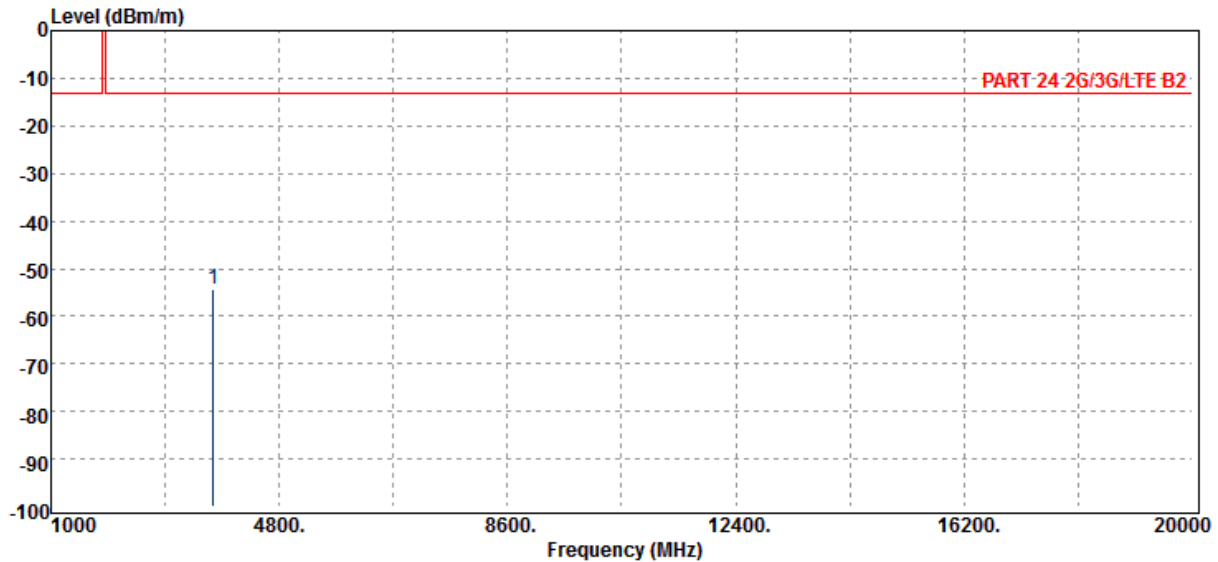
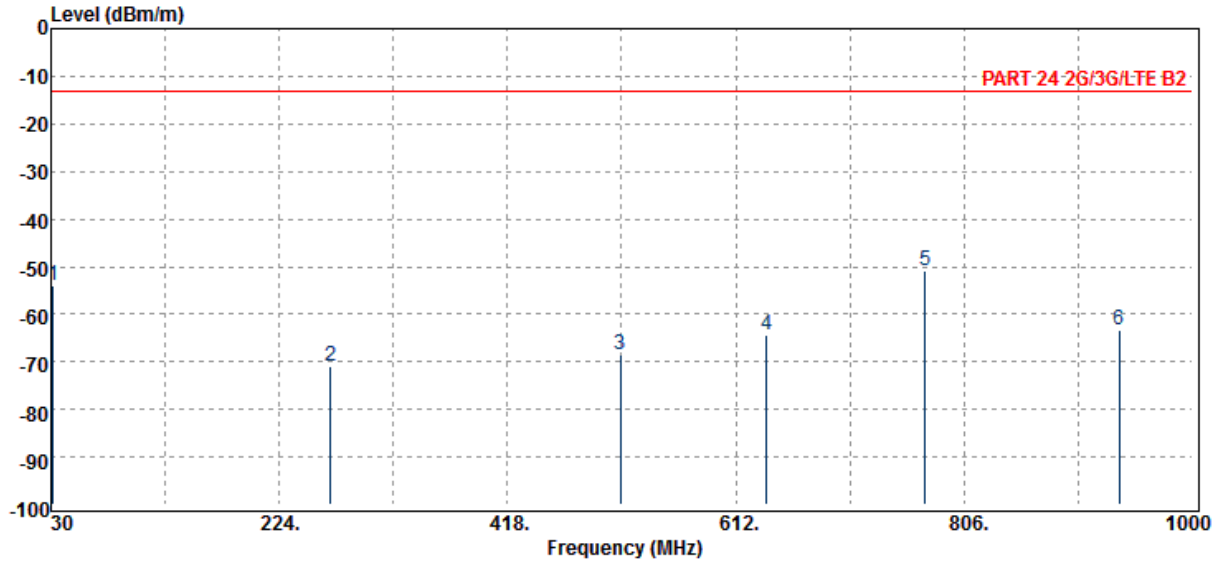
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**Radiated Spurious Emission Measurement Result: WCDMA II Mode**

ARFCN	:CH 9262	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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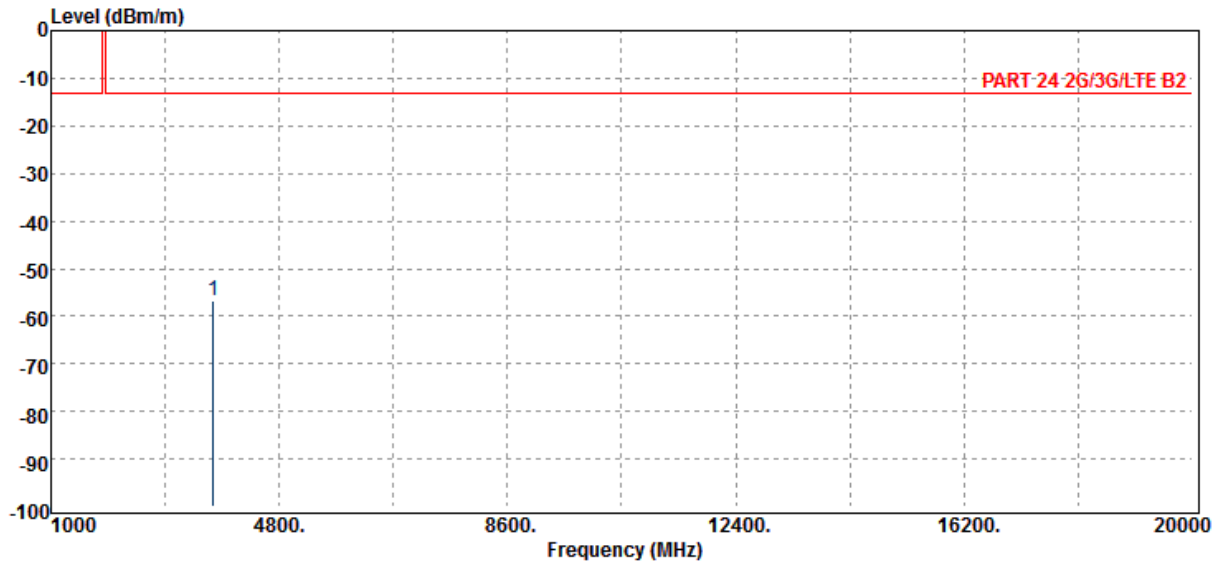
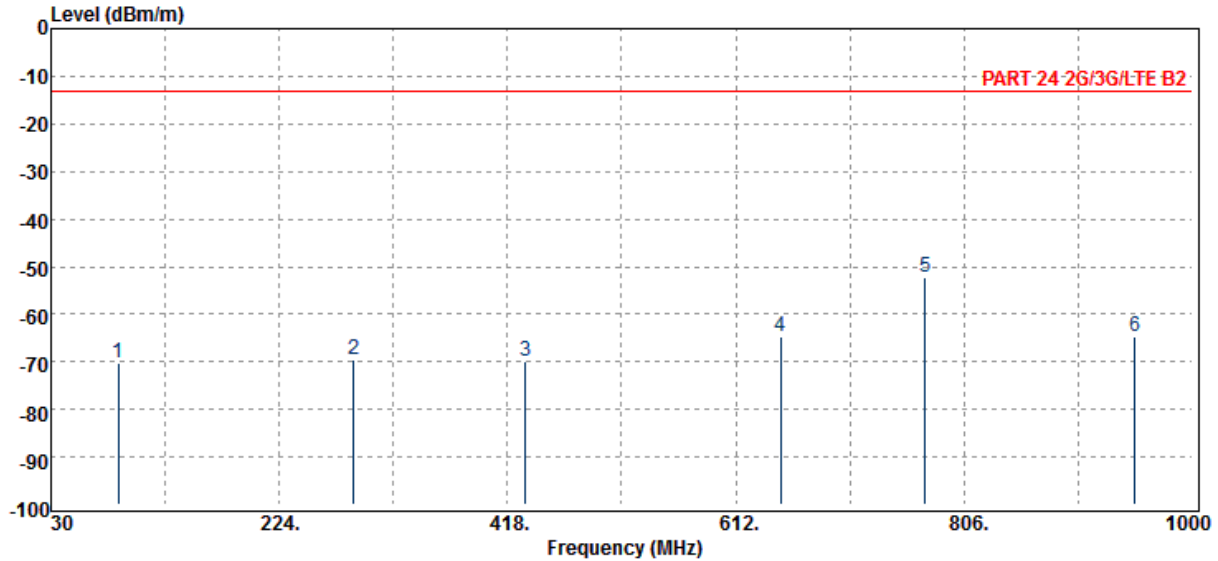
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ARFCN	:CH 9262	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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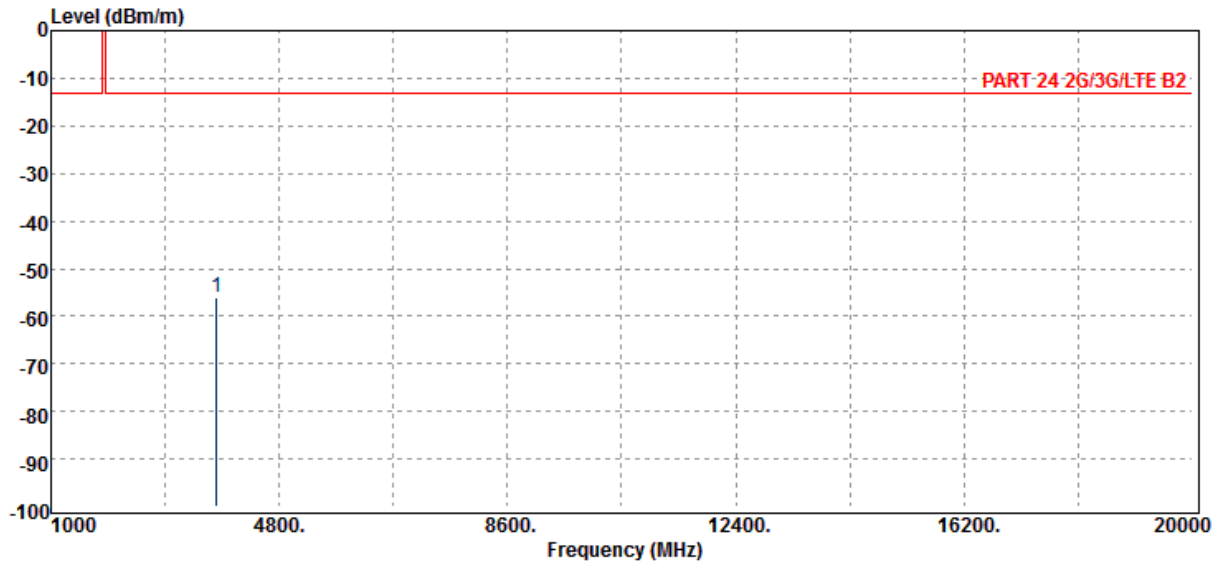
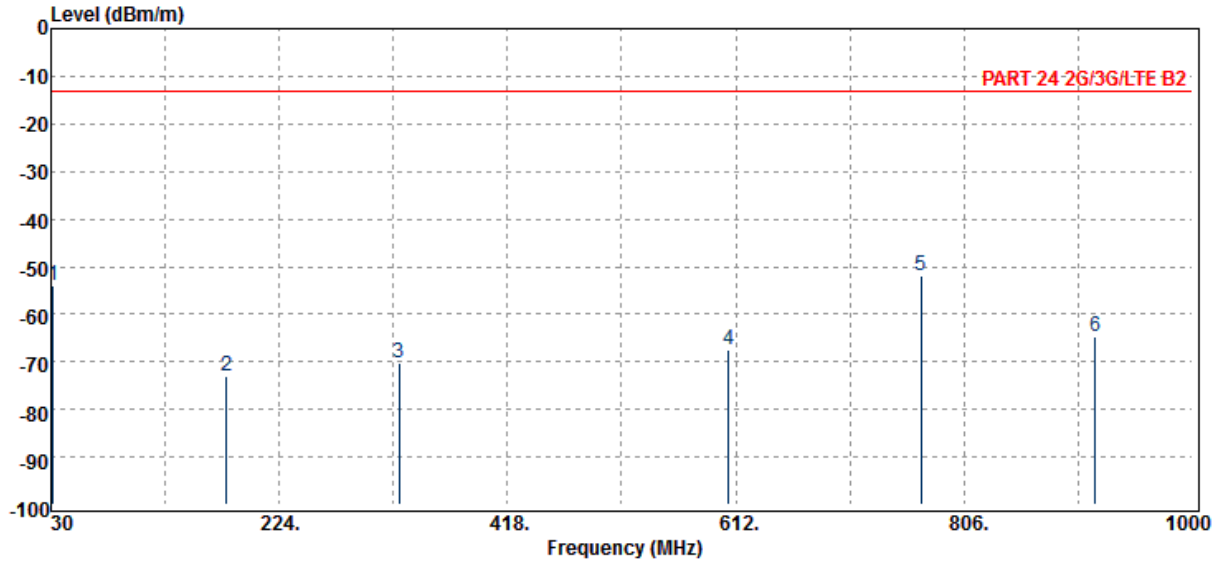
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Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 58 RH
Operation Band	:WCDMA B2	Engineer	:Tin
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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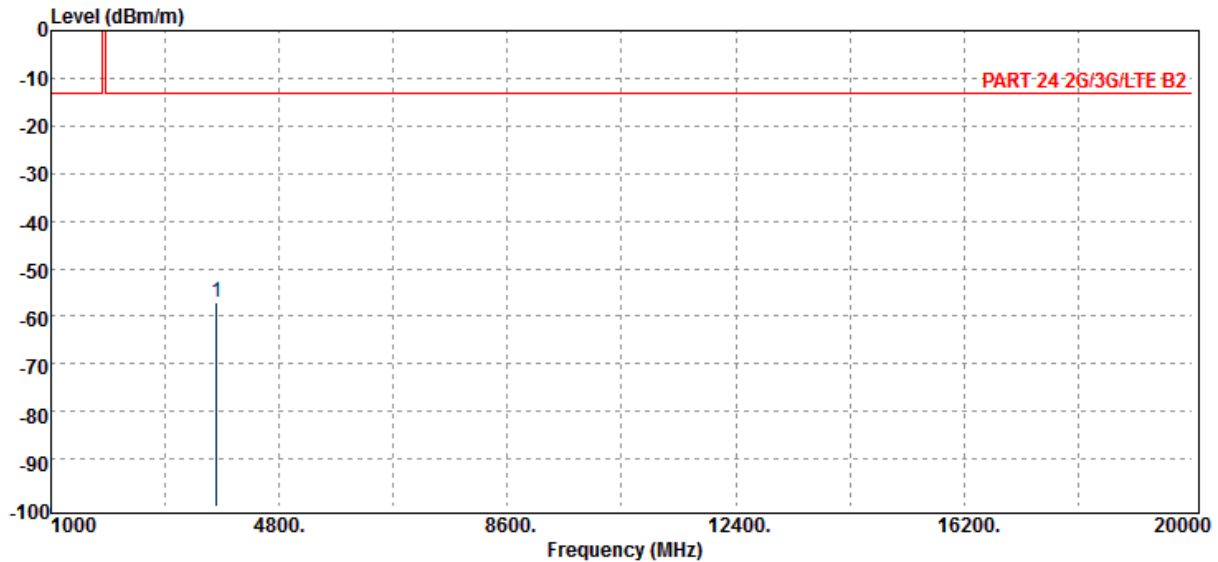
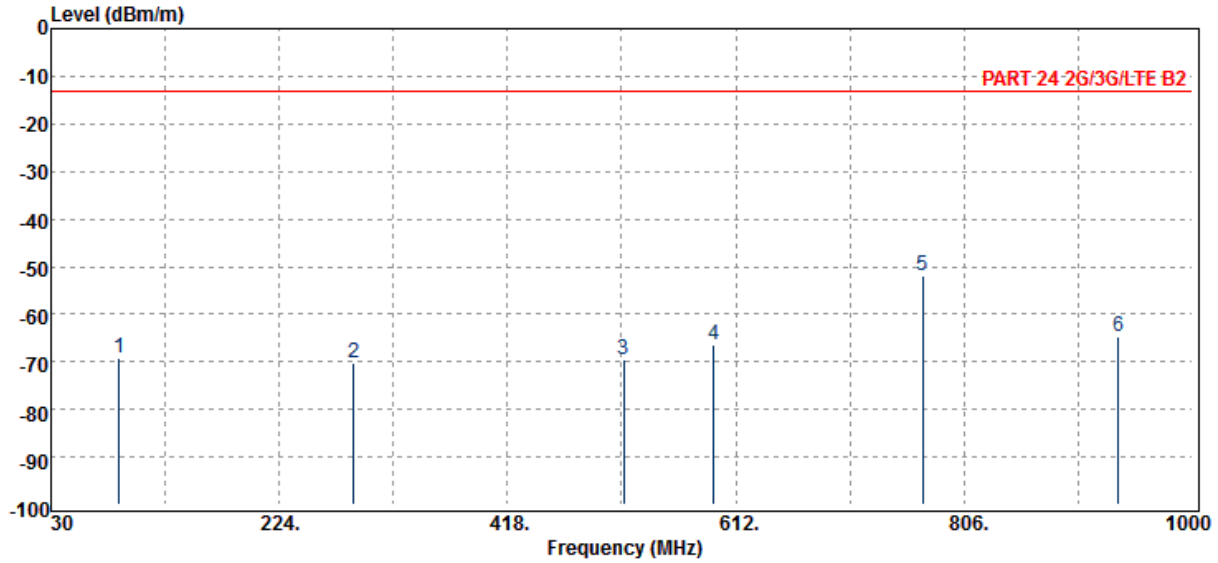
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ARFCN	:CH 9400	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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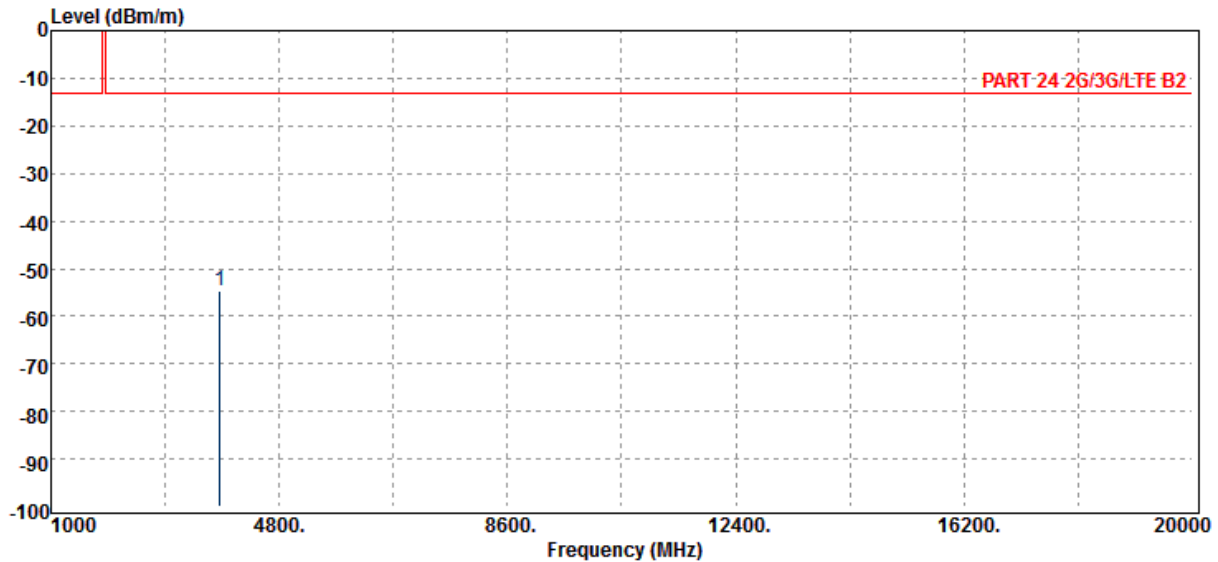
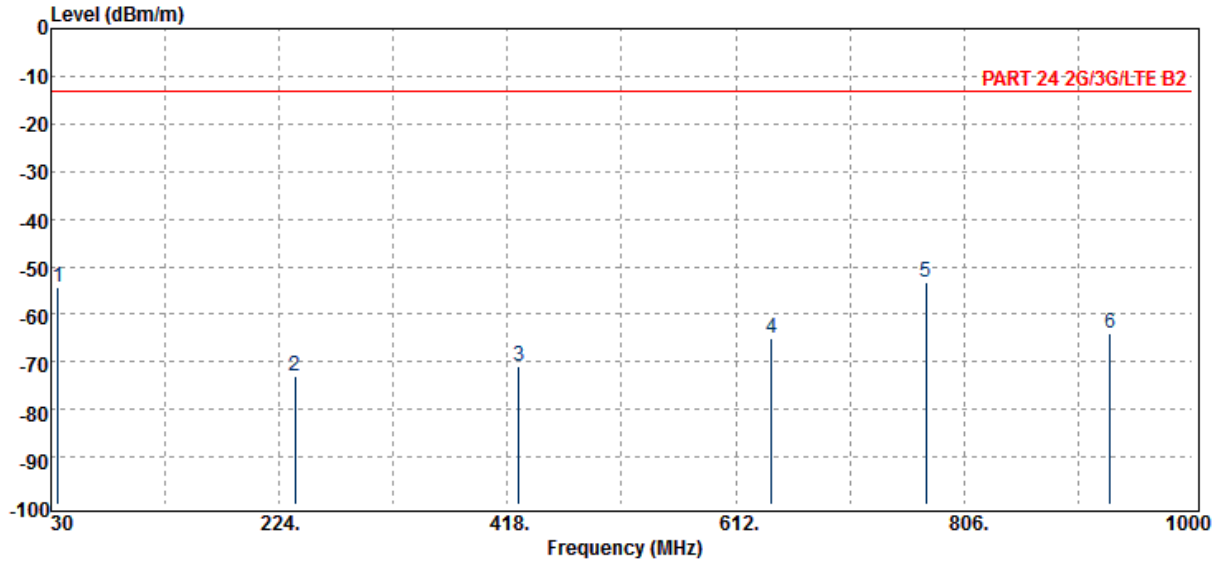
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ARFCN	:CH 9538	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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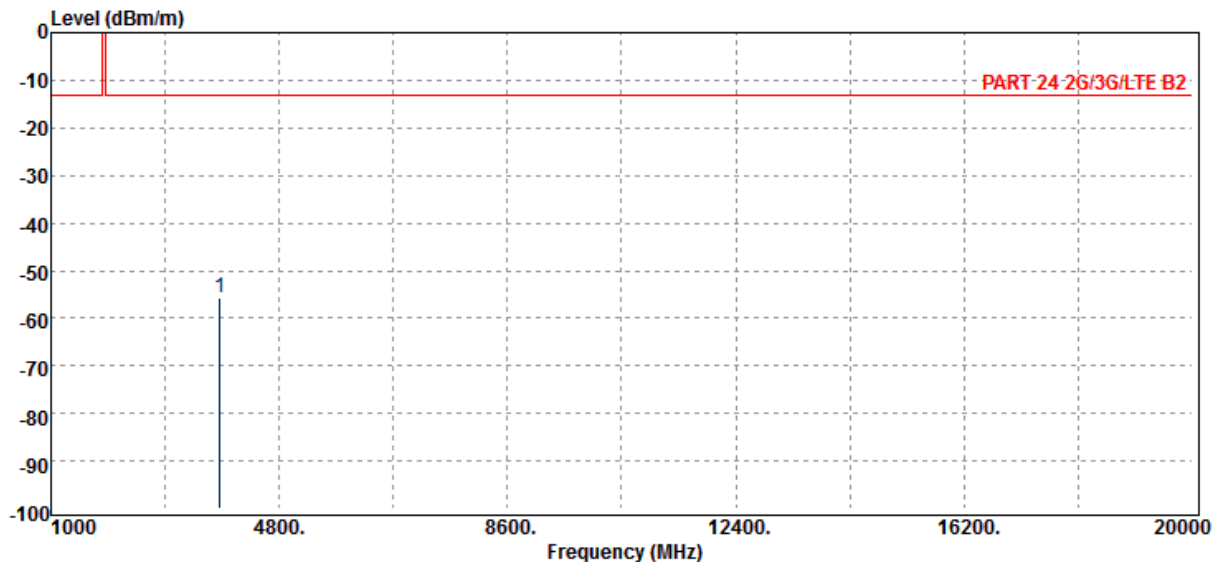
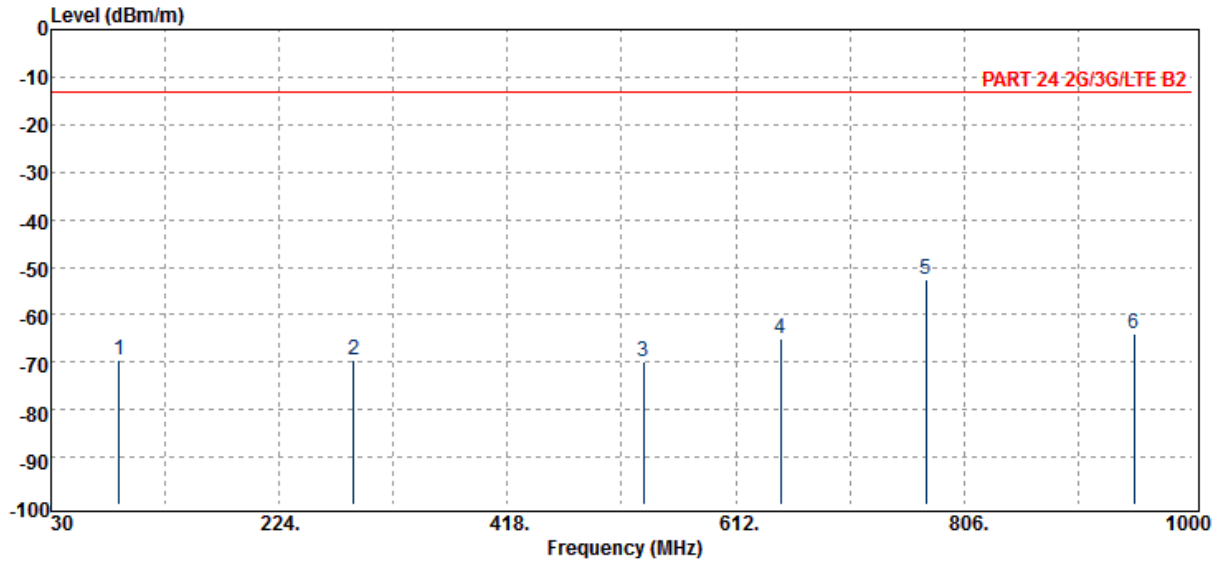
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ARFCN	:CH 9538	Test Date	:2014-11-20
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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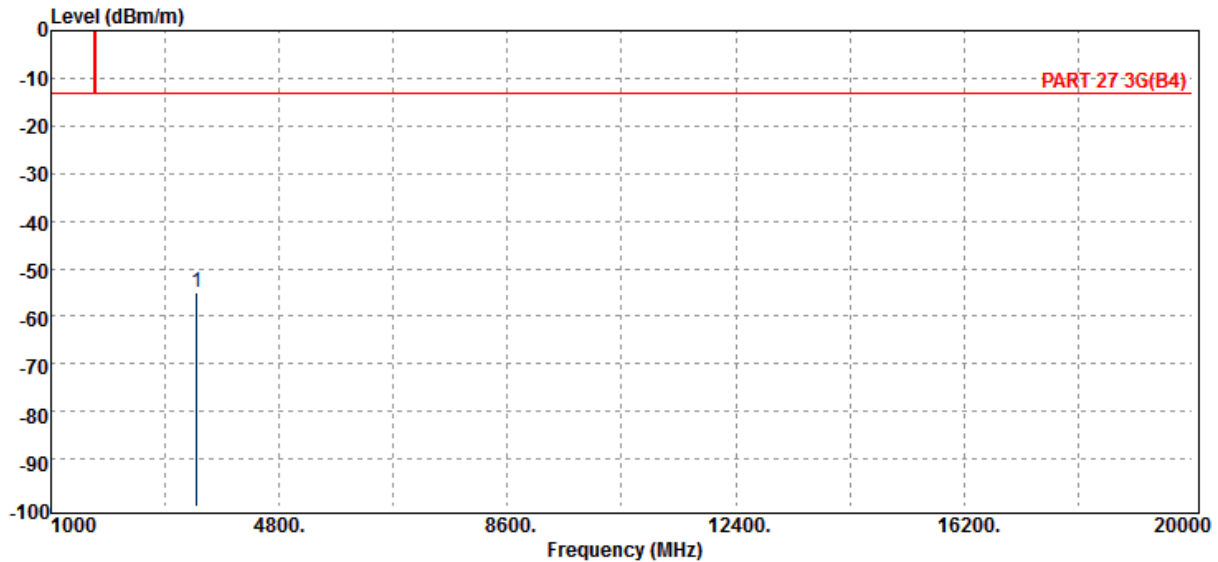
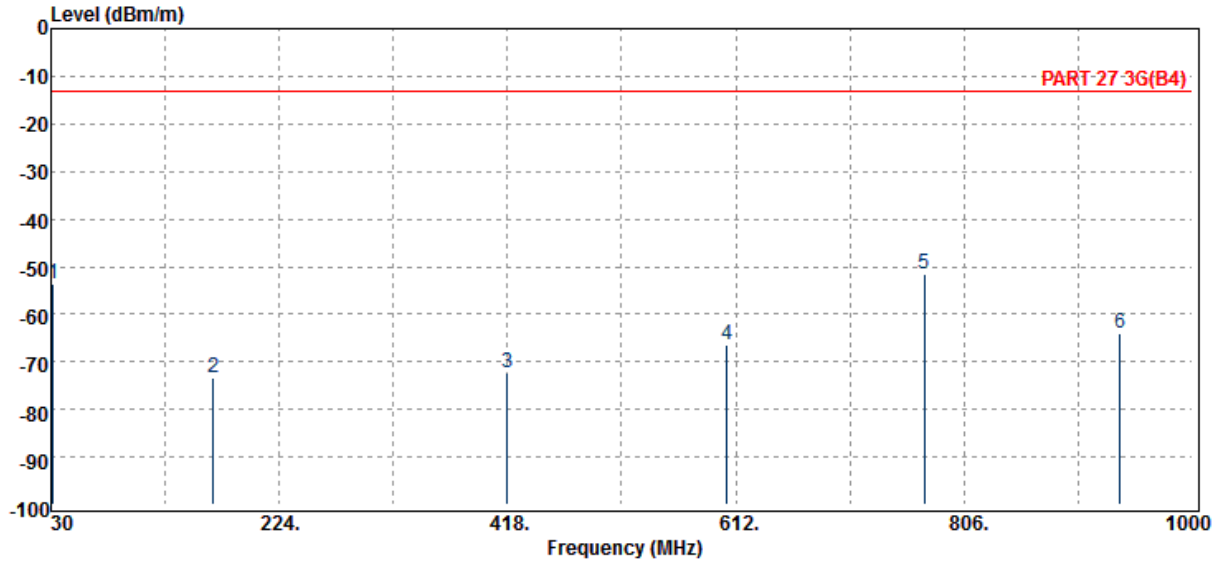
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**Radiated Spurious Emission Measurement Result: WCDMA IV Mode**

ARFCN	:CH 1312	Test Date	:2014-11-20
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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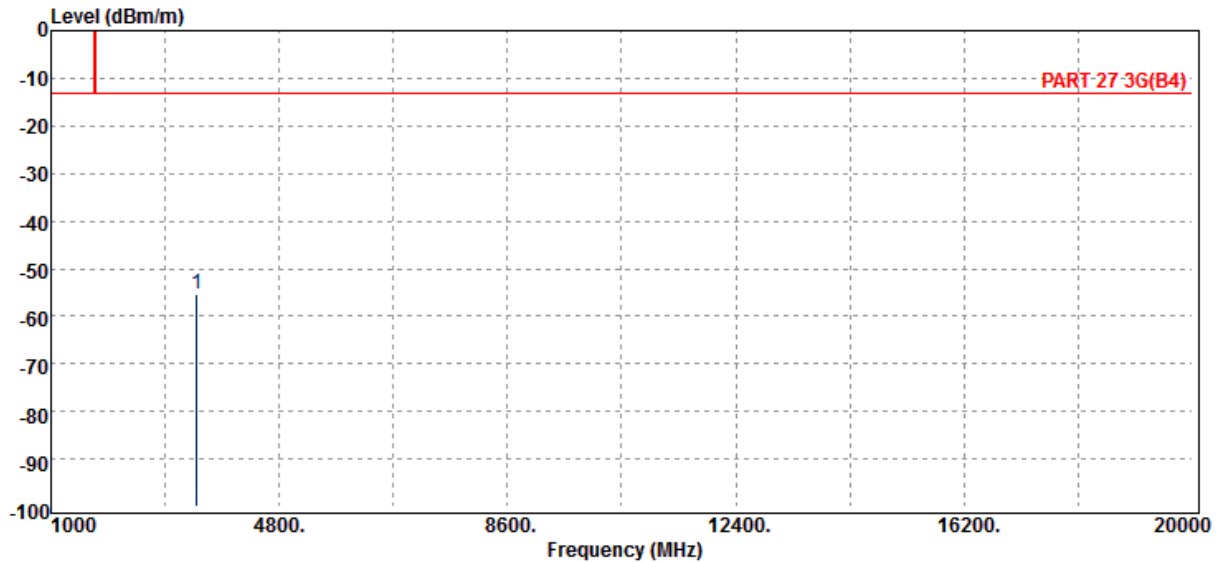
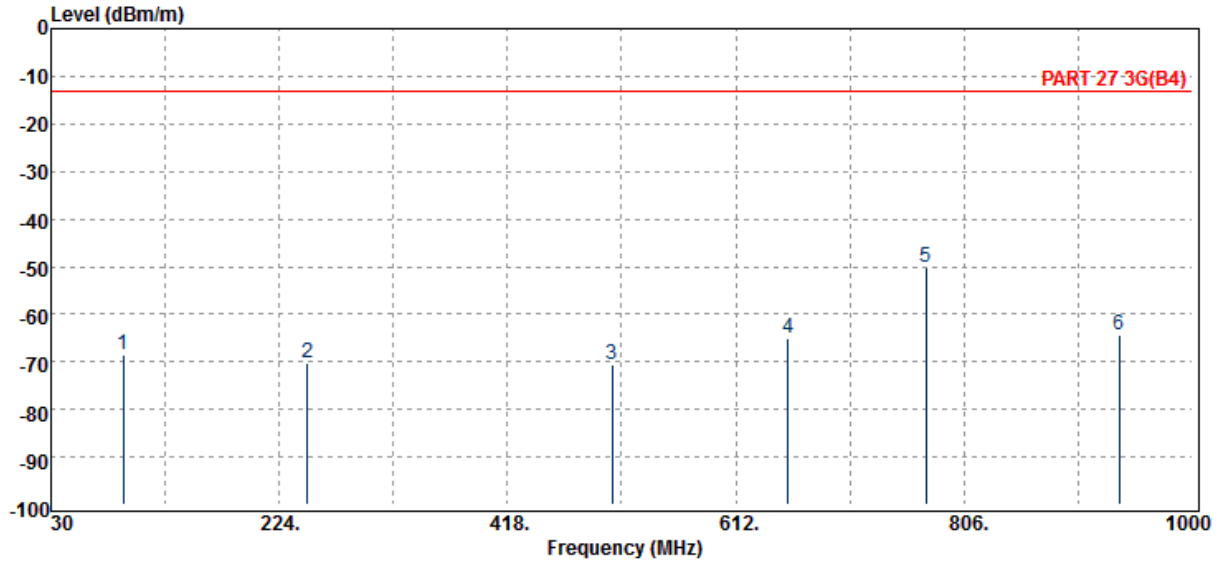
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ARFCN	:CH 1312	Test Date	:2014-11-19
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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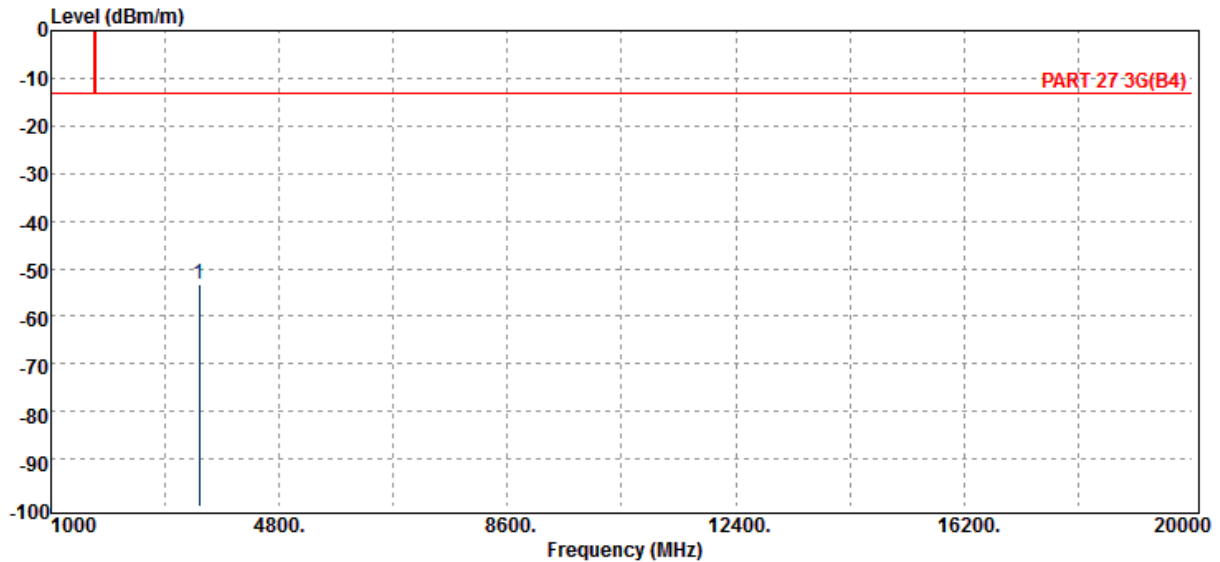
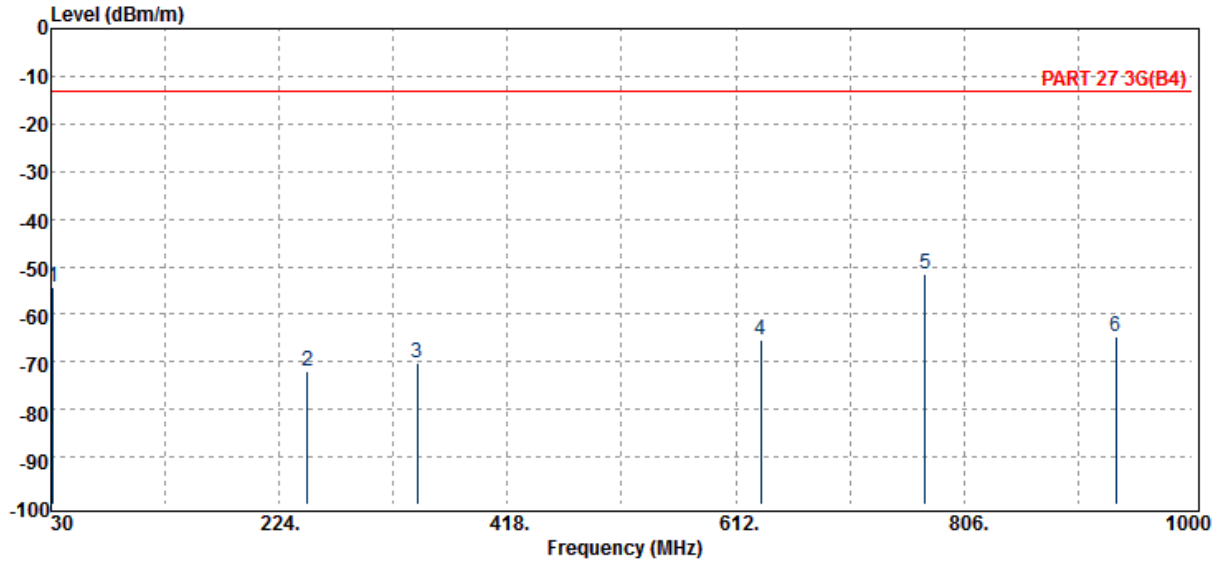
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ARFCN	:CH 1413	Test Date	:2014-11-19
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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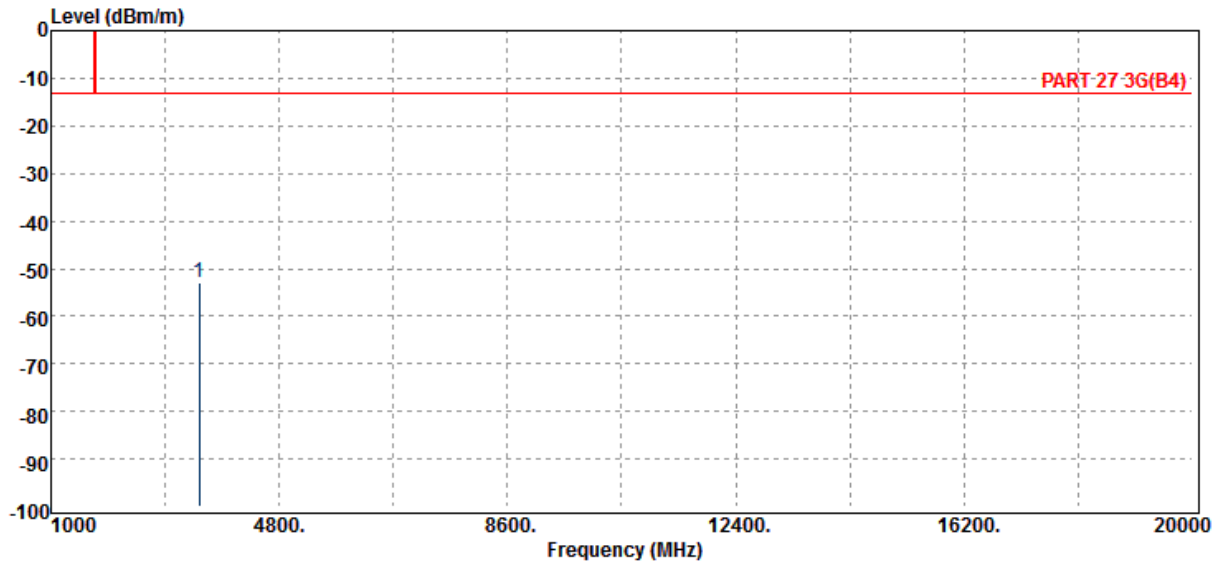
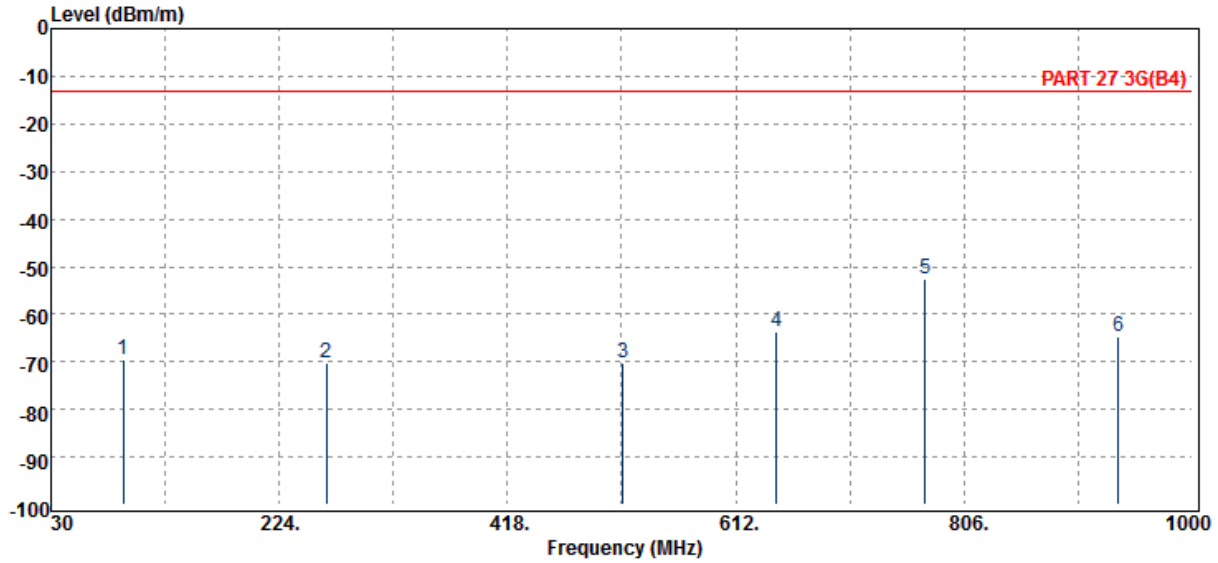
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ARFCN	:CH 1413	Test Date	:2014-11-20
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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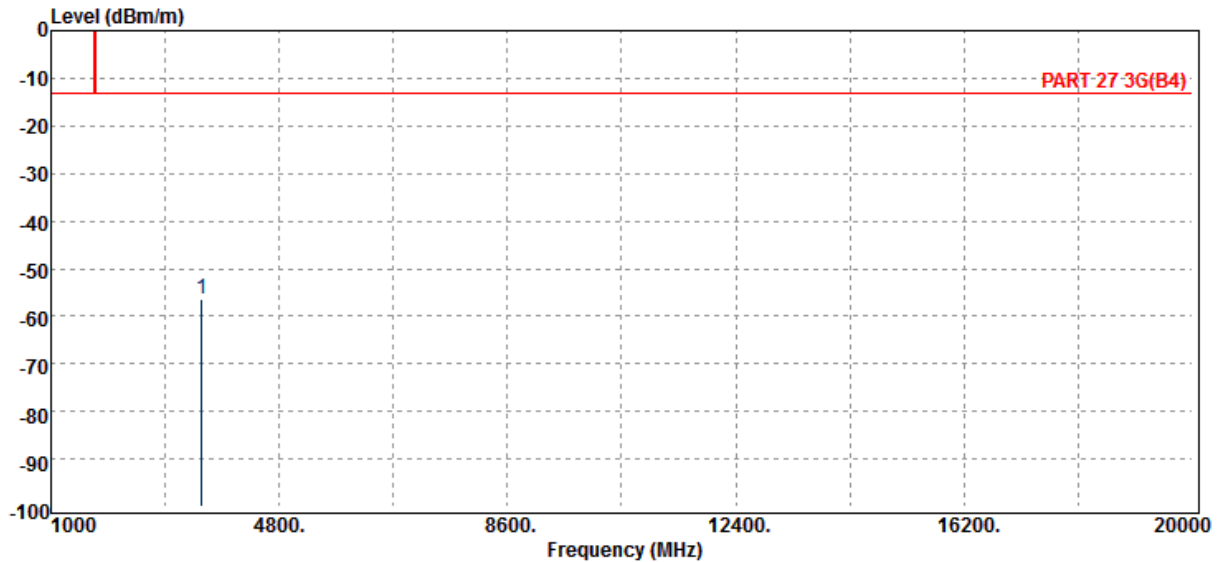
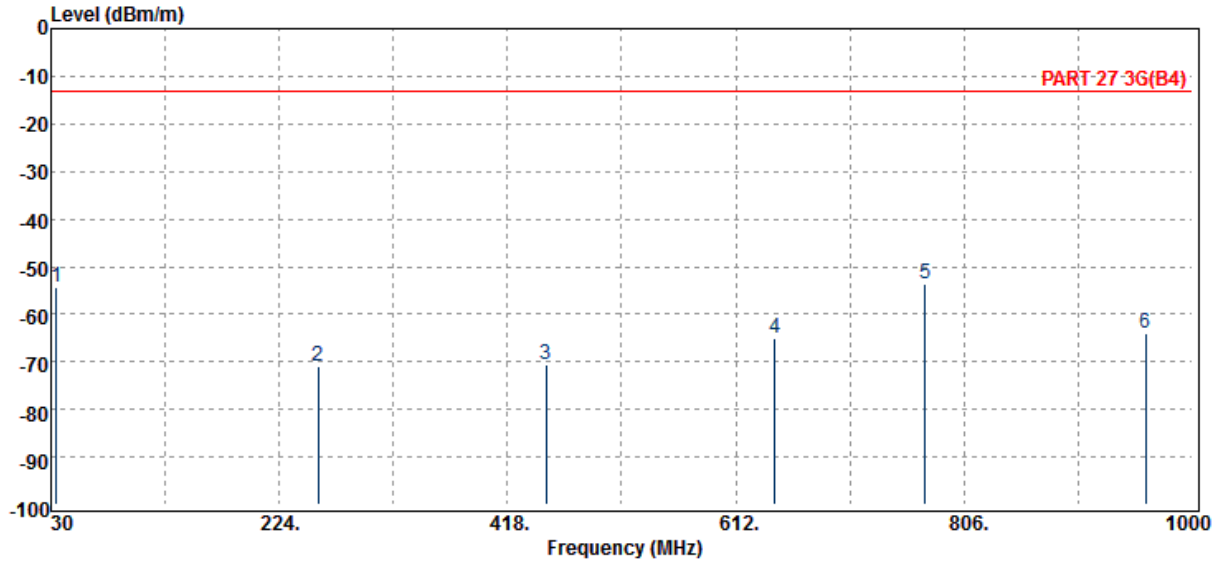
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ARFCN	:CH 1513	Test Date	:2014-11-20
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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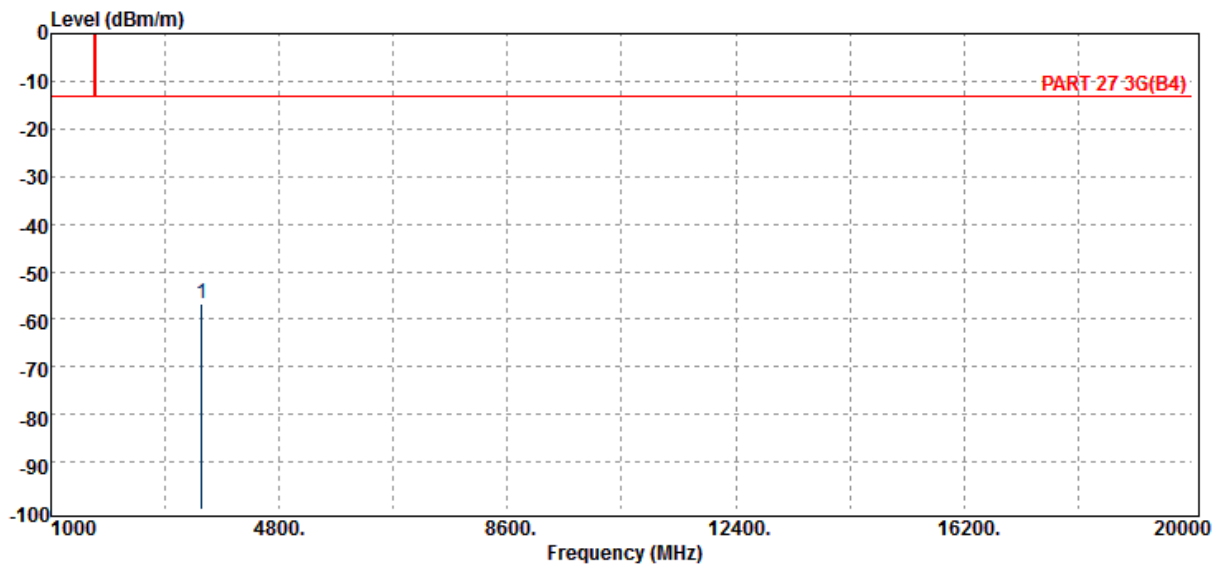
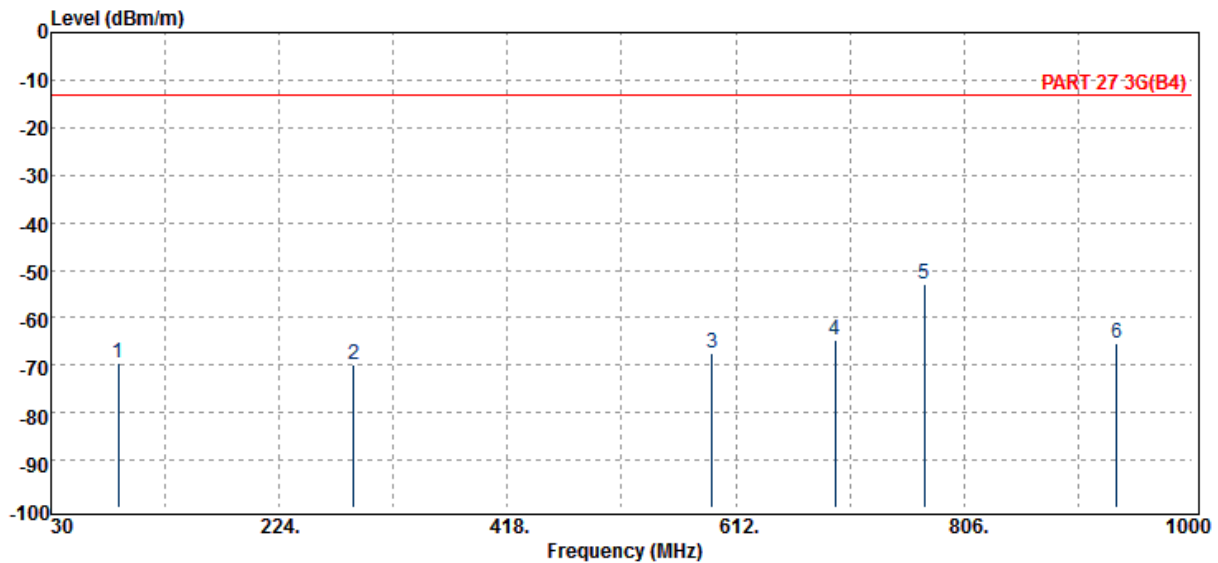
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ARFCN	:CH 1513	Test Date	:2014-11-20
Operation Band	:WCDMA B4	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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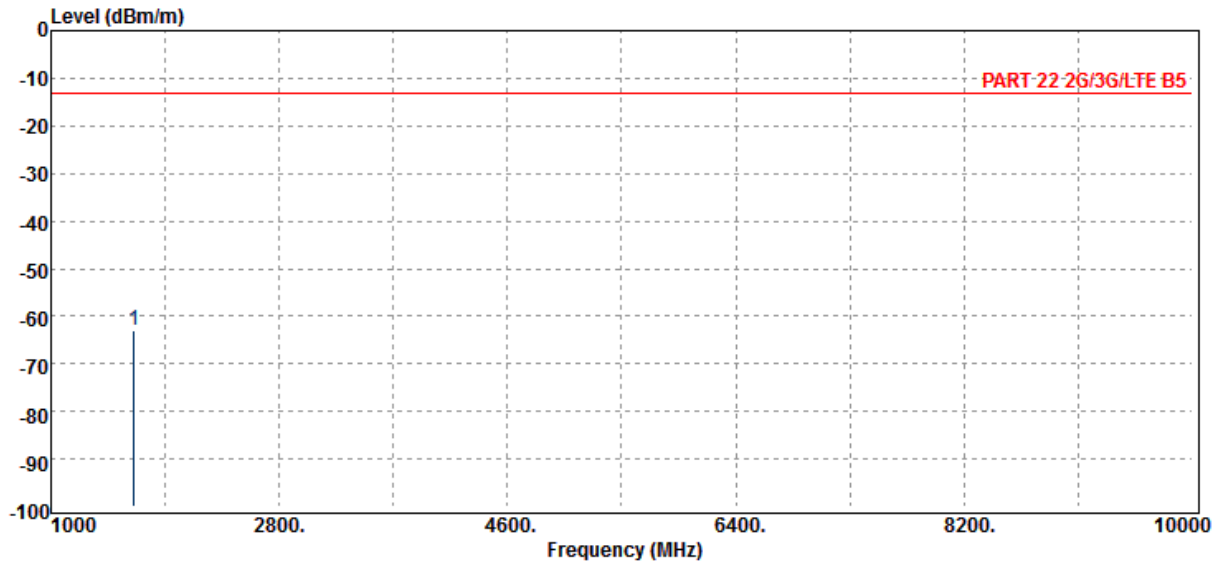
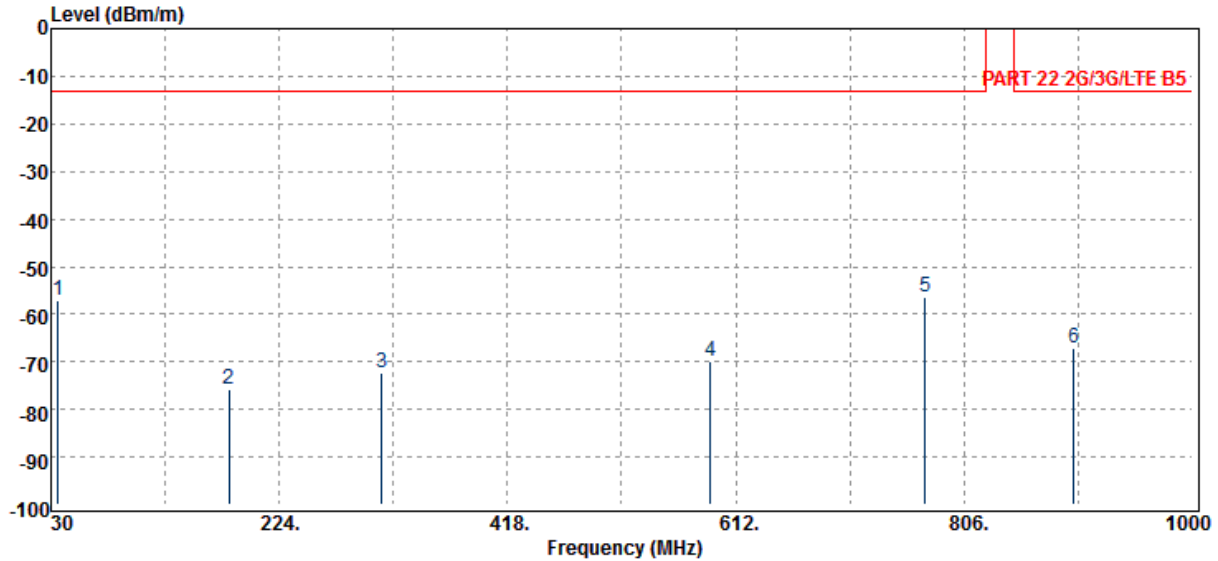
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**Radiated Spurious Emission Measurement Result: WCDMA V Mode**

ARFCN	:CH 4132	Test Date	:2014-11-19
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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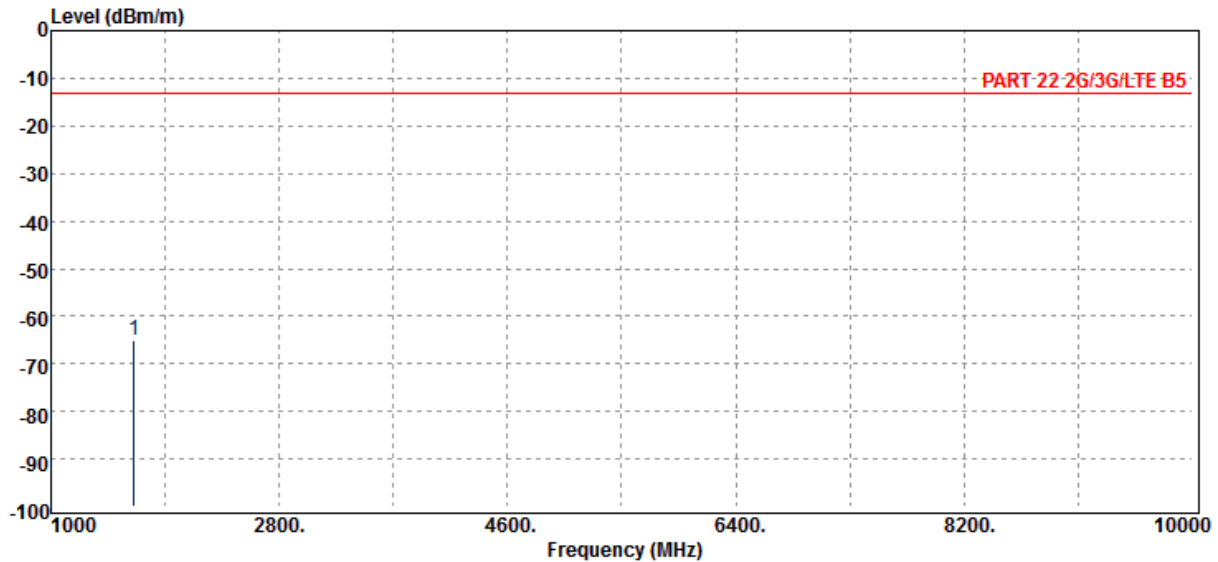
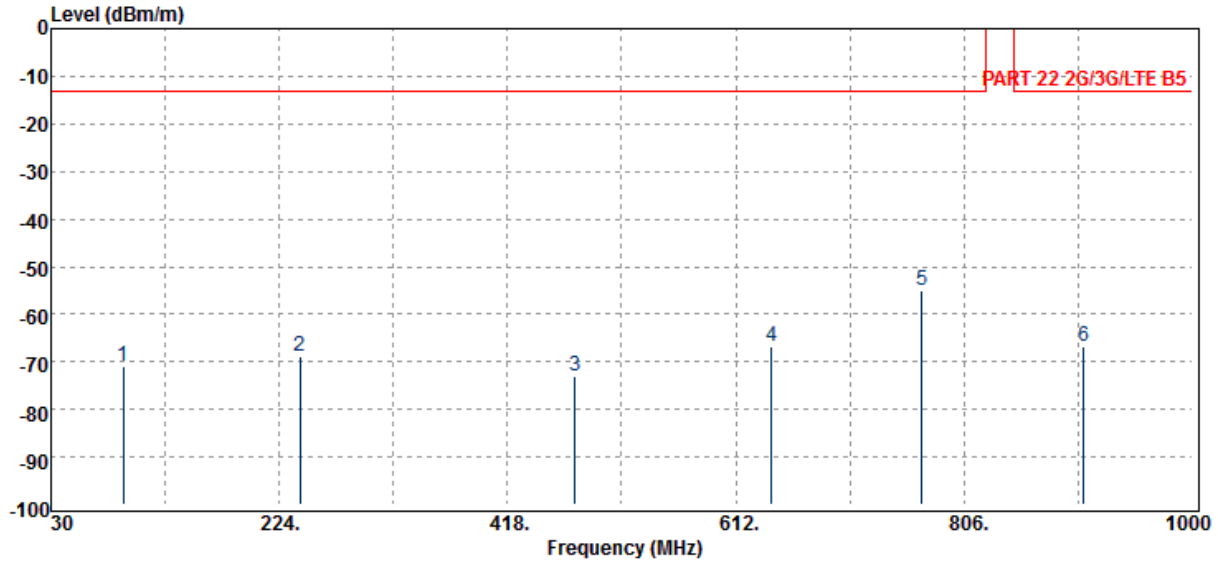
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ARFCN	:CH 4132	Test Date	:2014-11-29
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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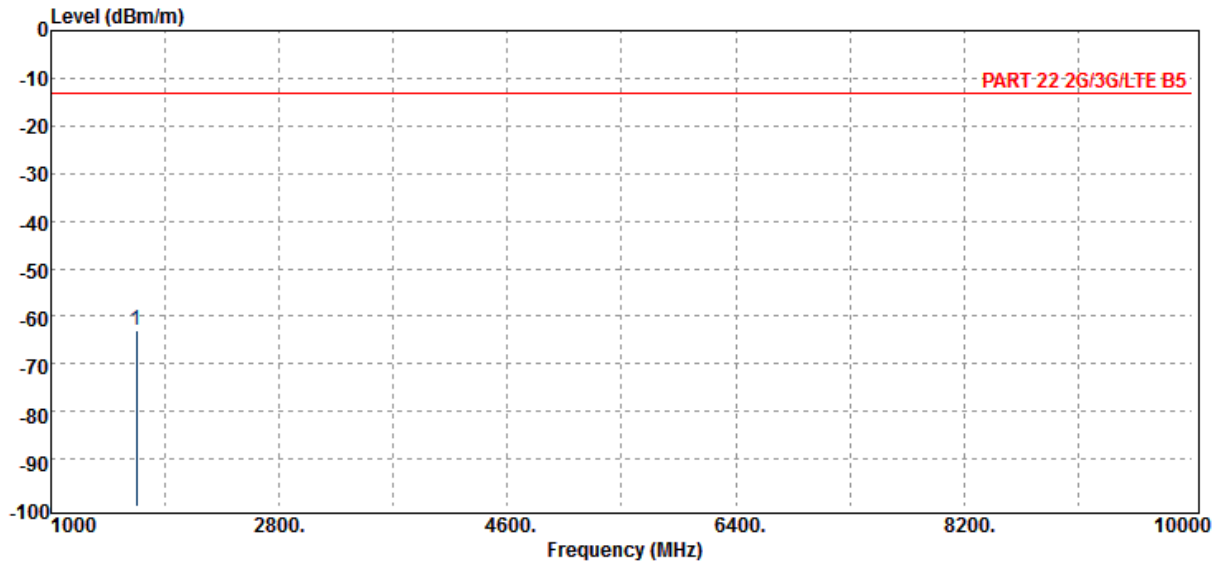
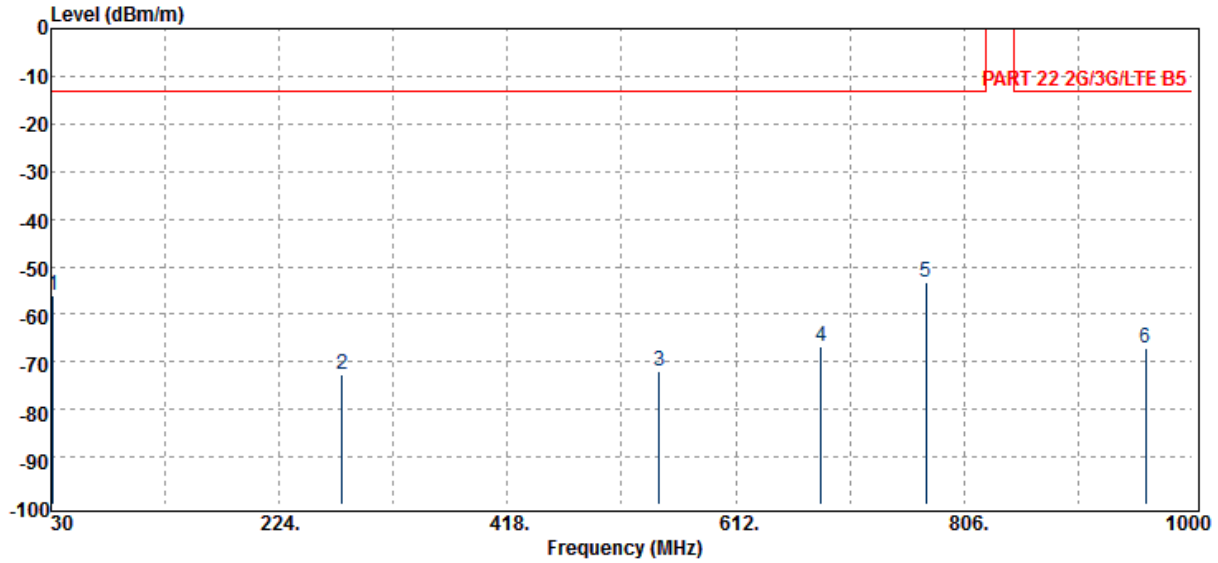
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ARFCN	: B5:CH 4183	Test Date	:2014-11-19
Operation Band	: WCDMA	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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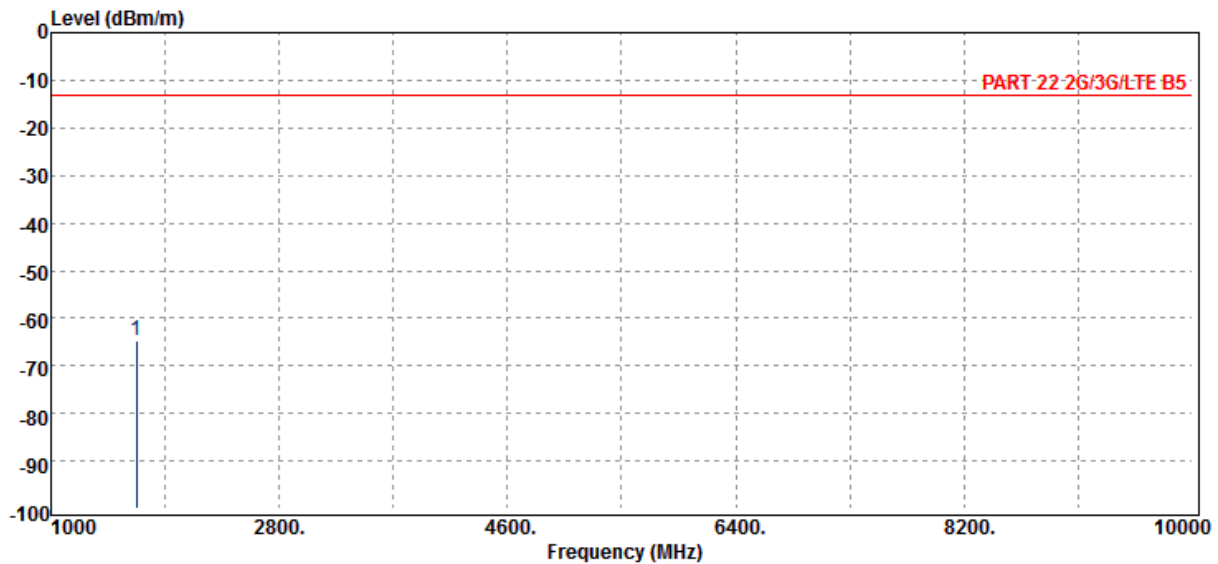
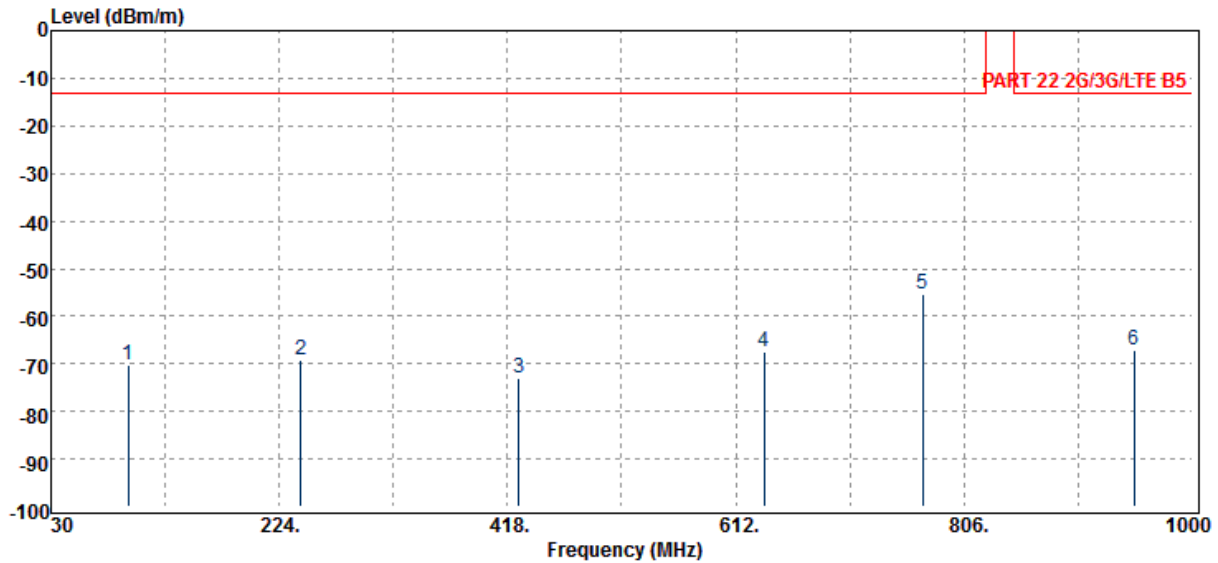
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ARFCN	: CH 4183	Test Date	:2014-11-19
Operation Band	: WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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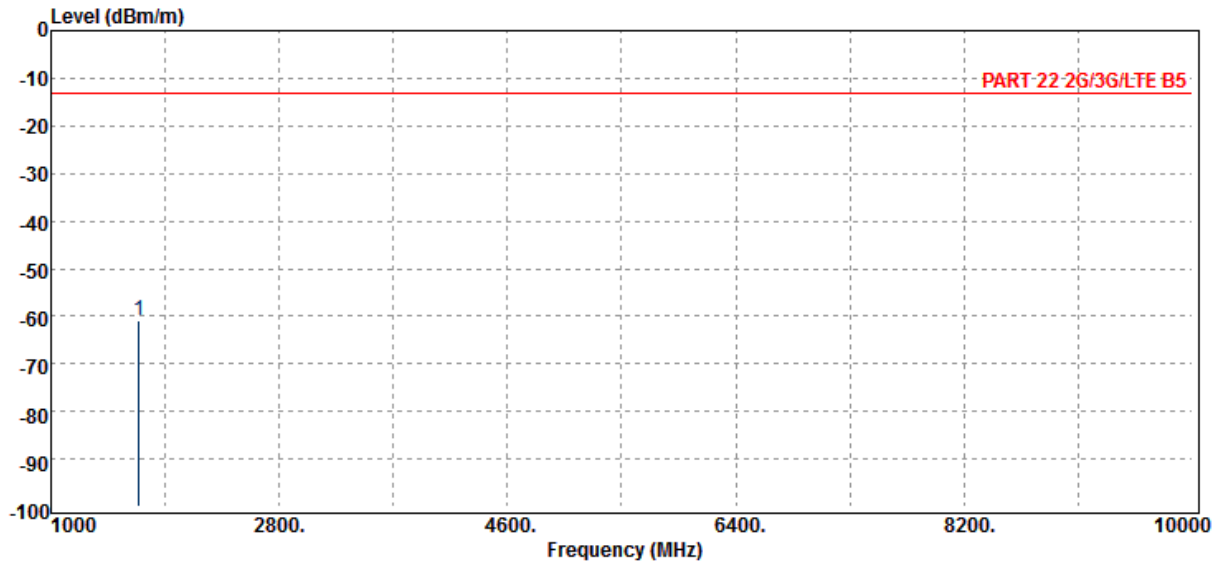
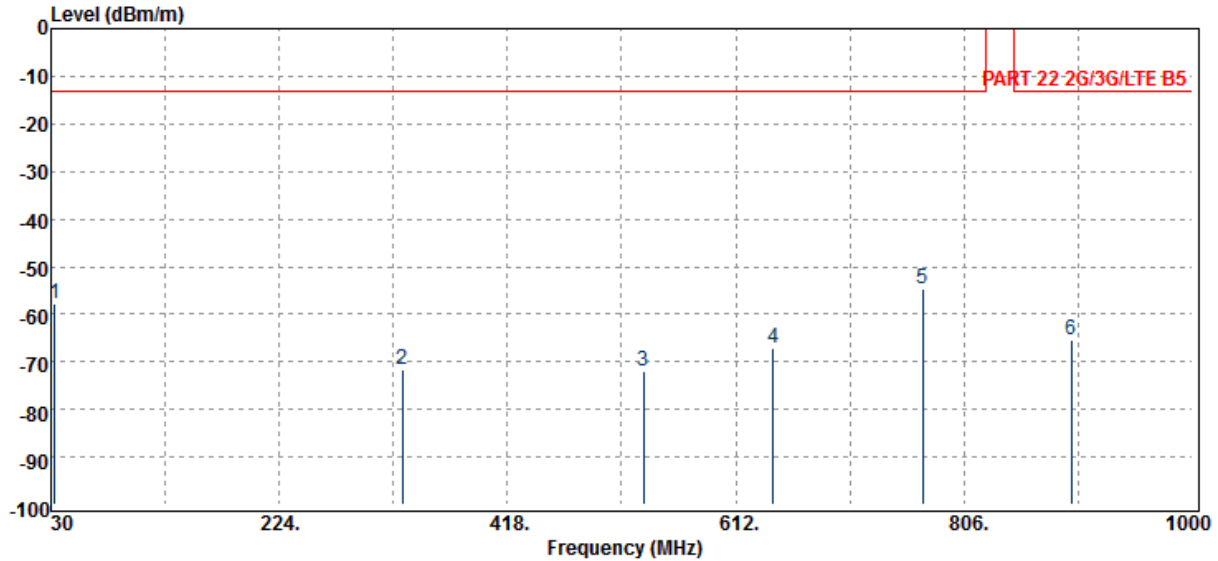
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ARFCN	: CH 4233	Test Date	:2014-11-19
Operation Band	: WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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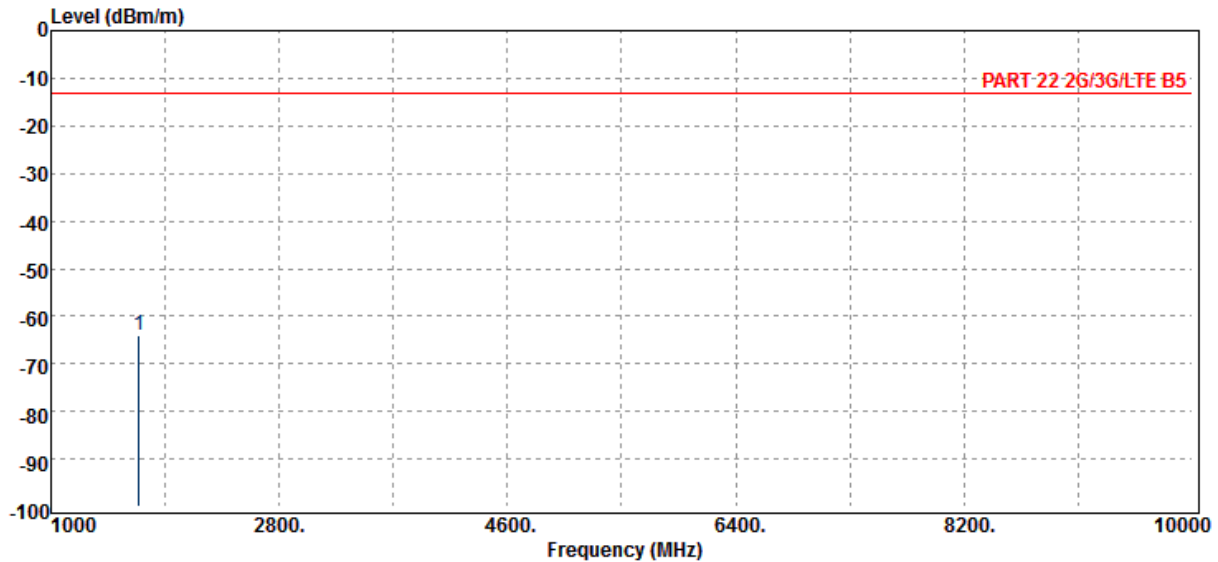
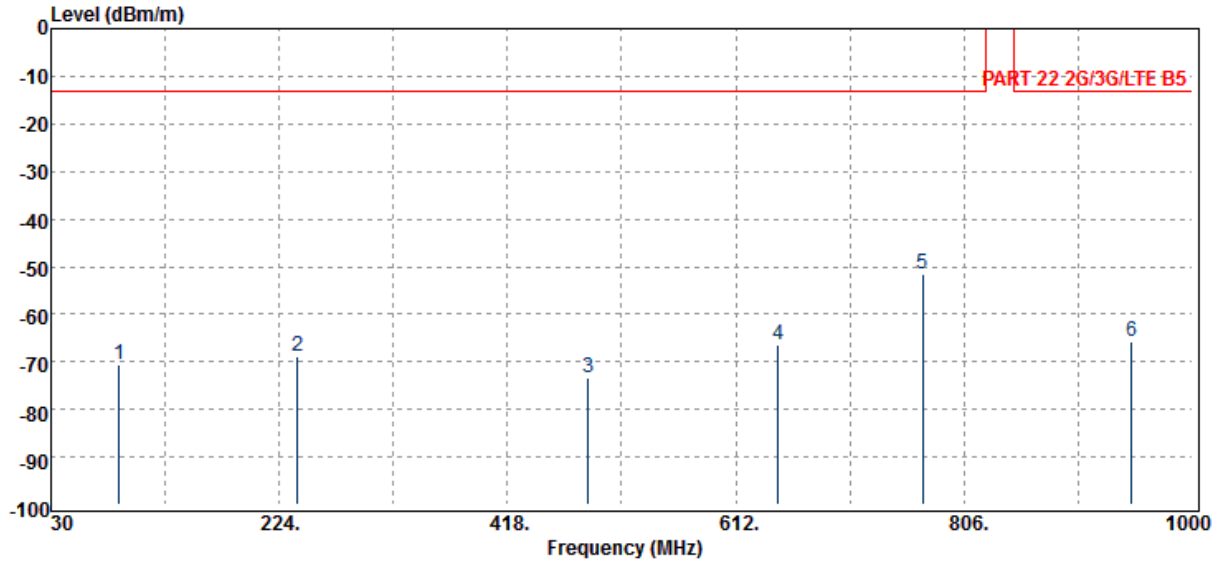
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ARFCN	: CH 4233	Test Date	:2014-11-19
Operation Band	: WCDMA B5	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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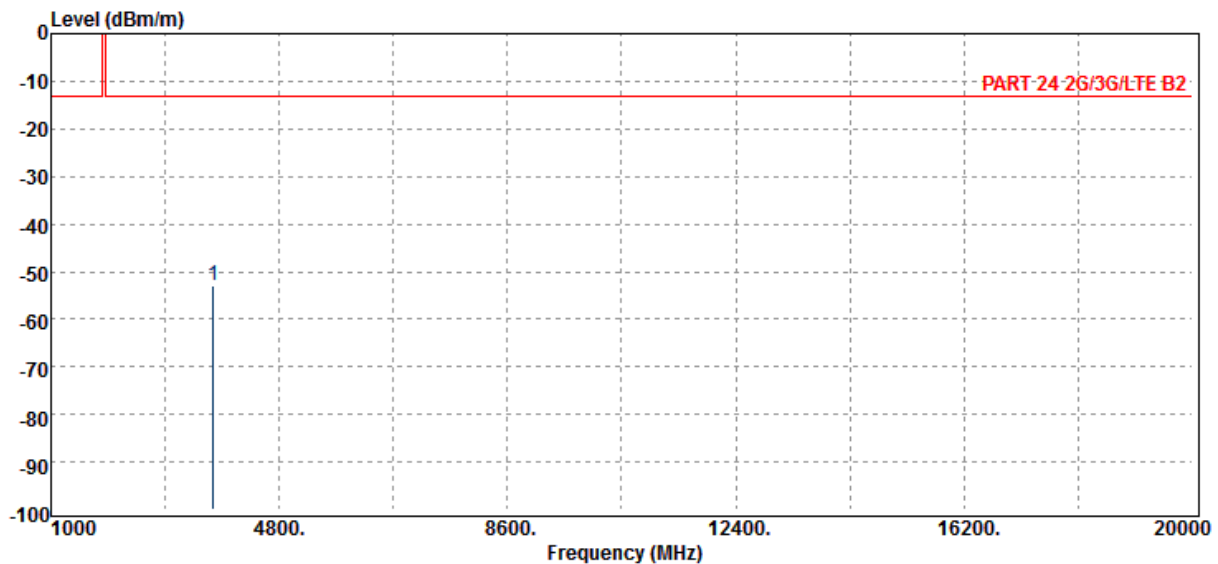
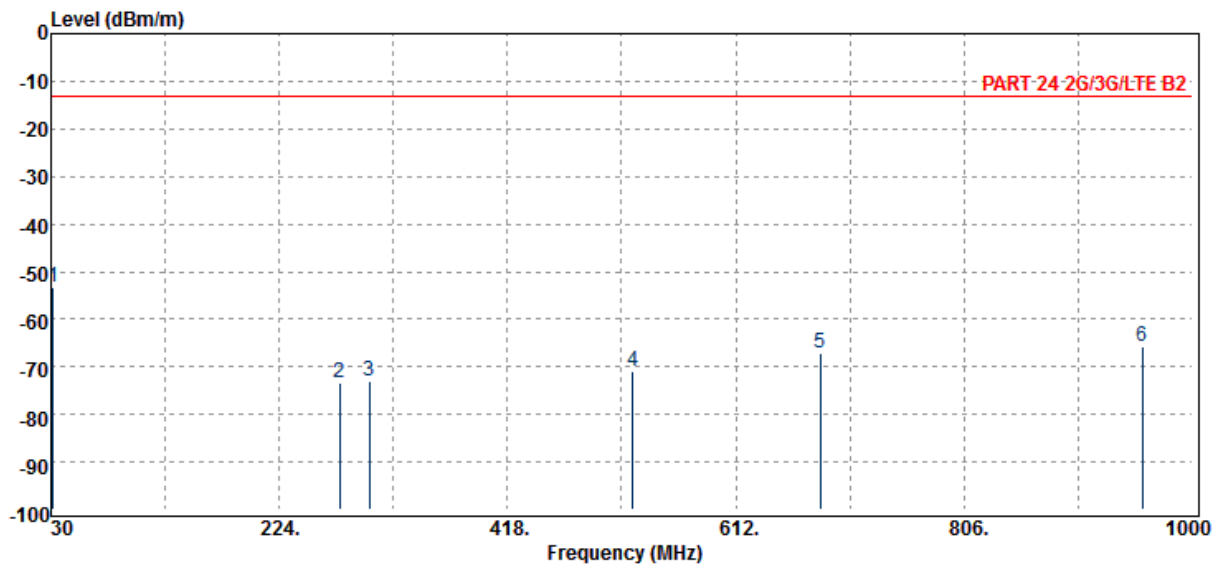
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**Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)**

ARFCN	:CH 18607 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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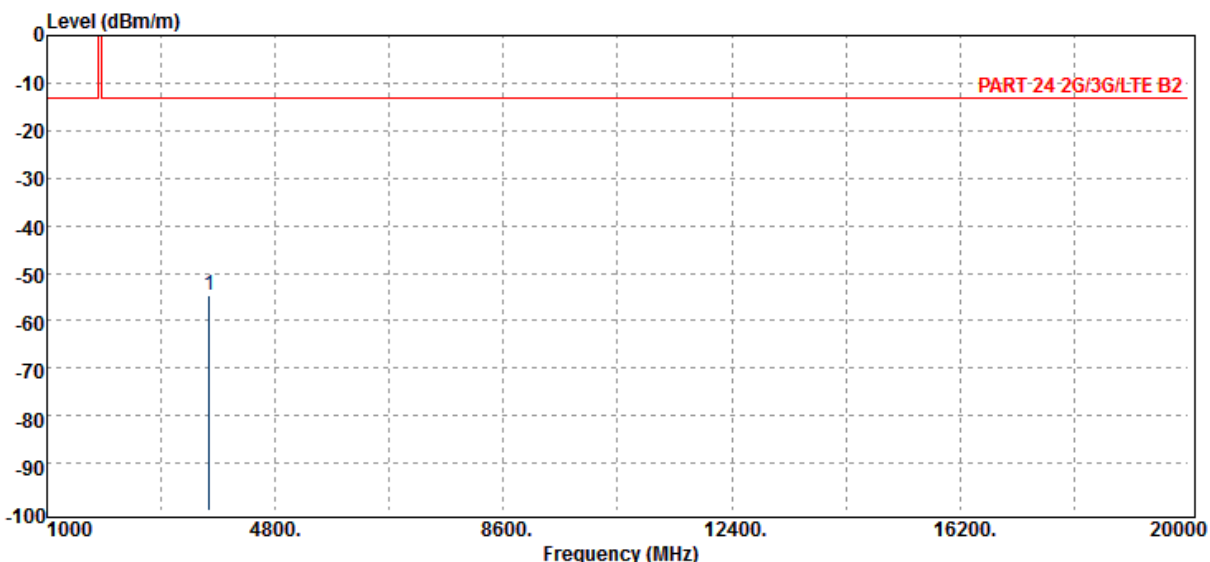
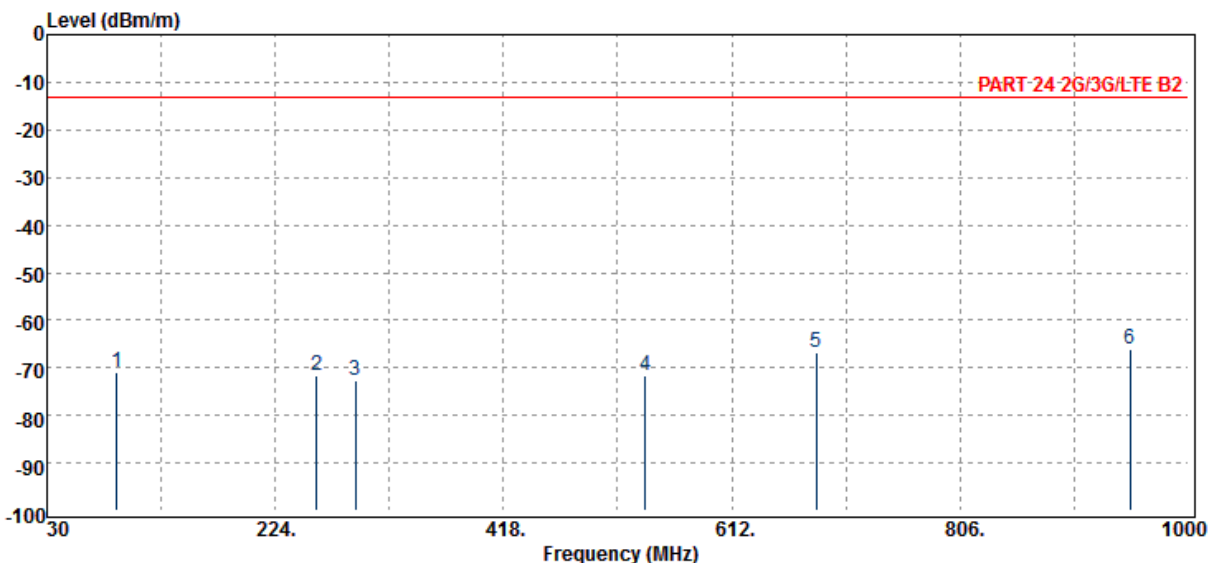
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ARFCN	:CH 18607 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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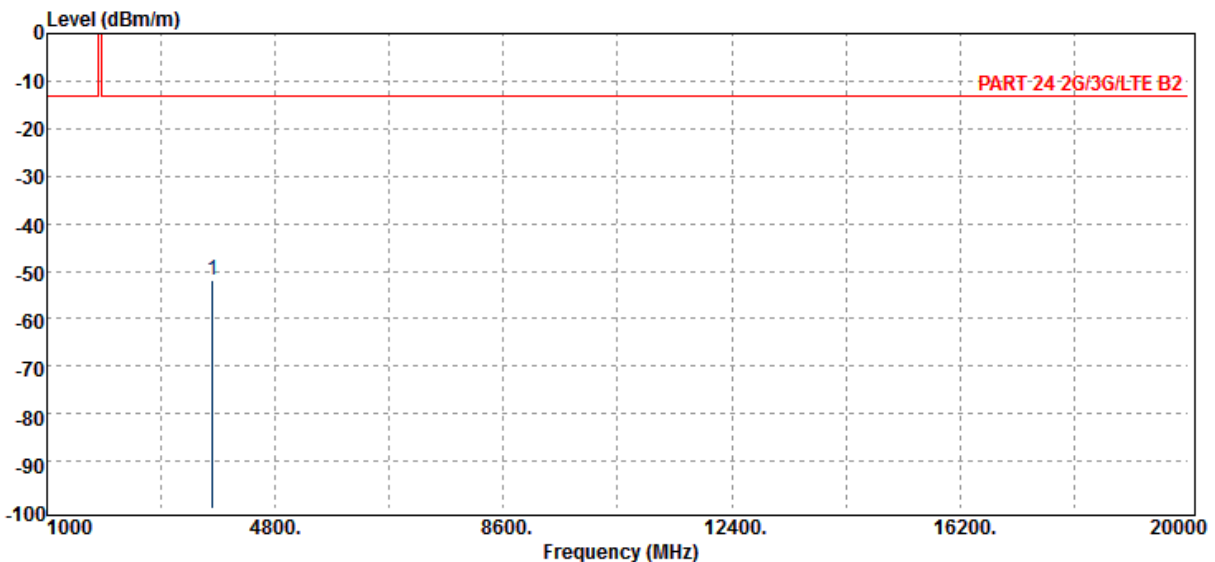
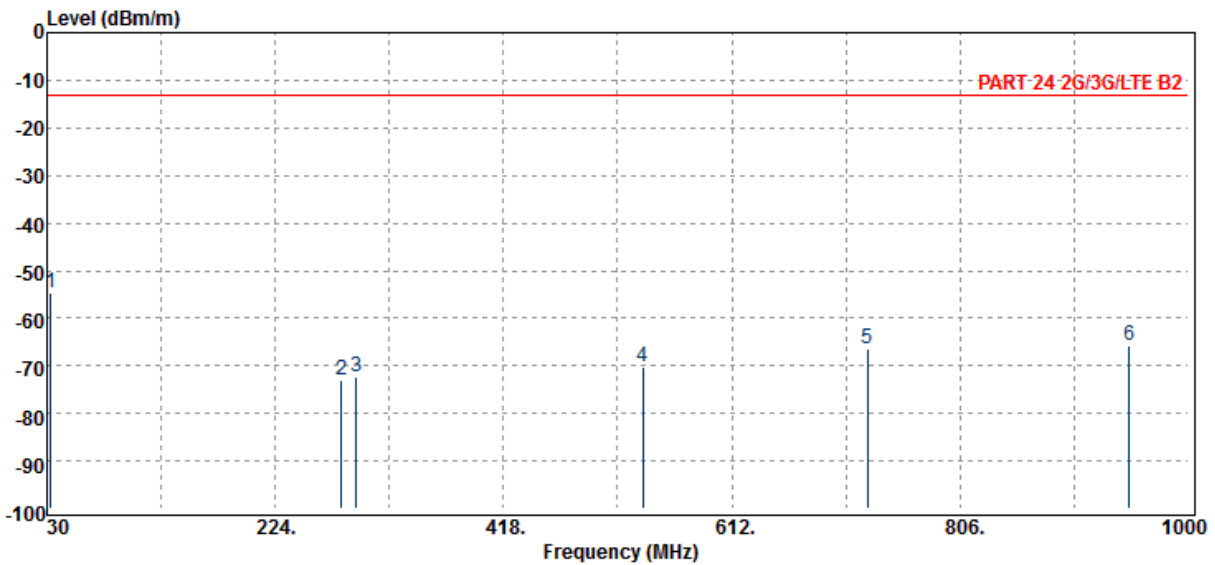
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ARFCN	:CH 18900 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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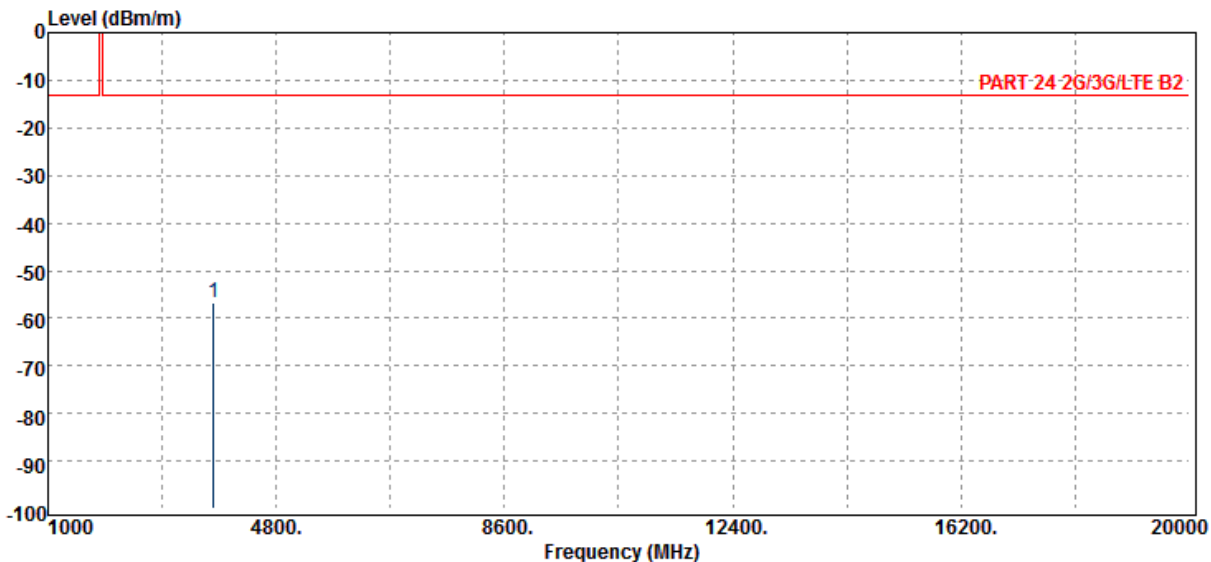
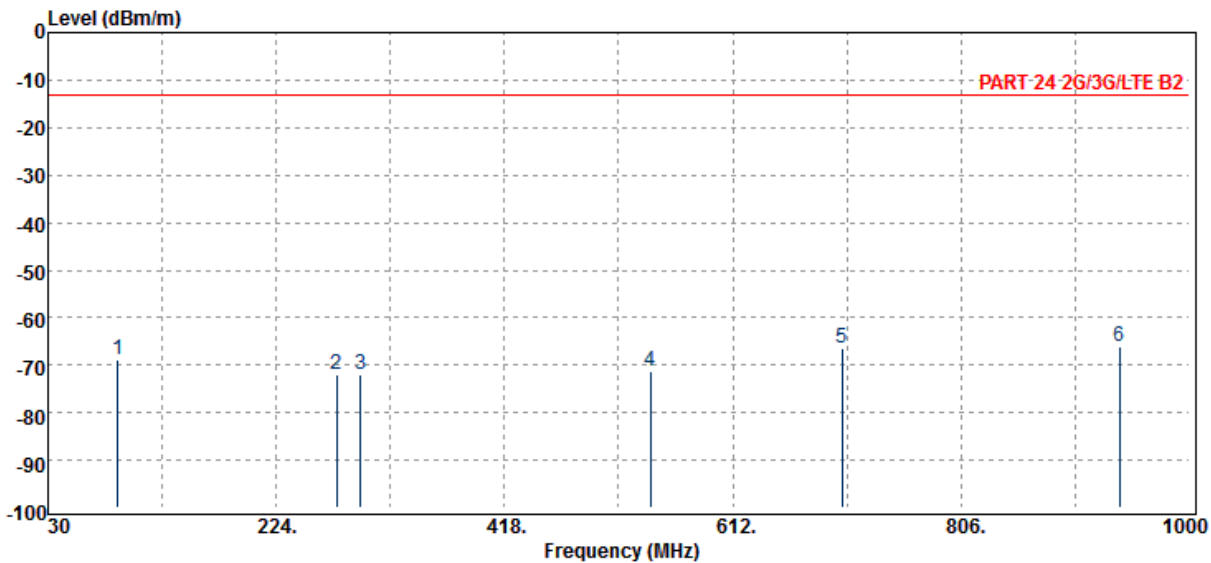
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ARFCN	:CH 18900 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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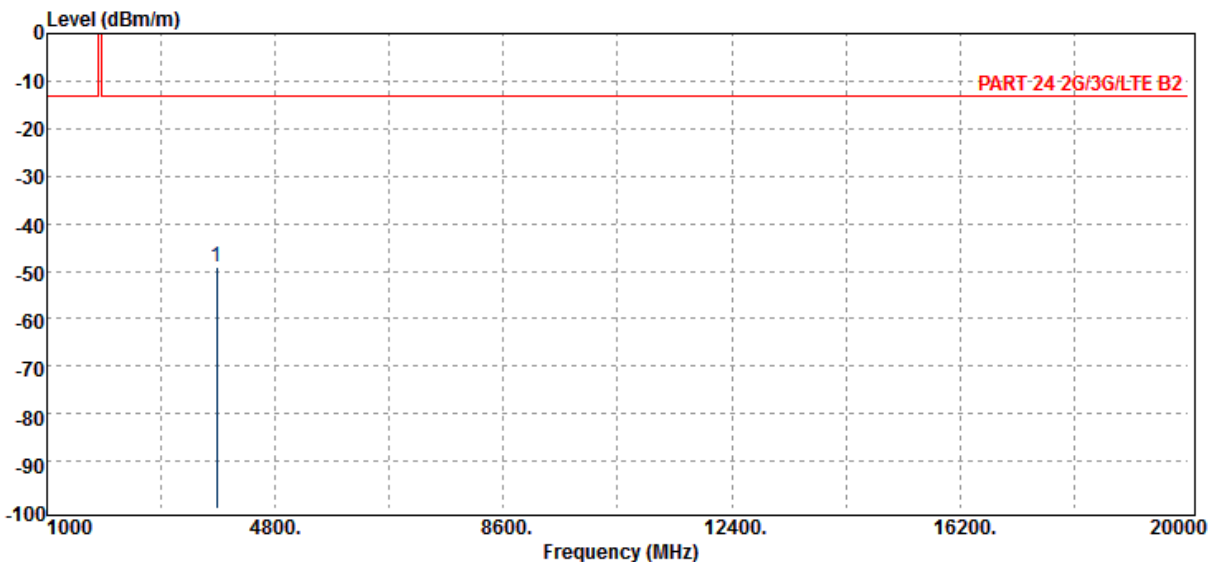
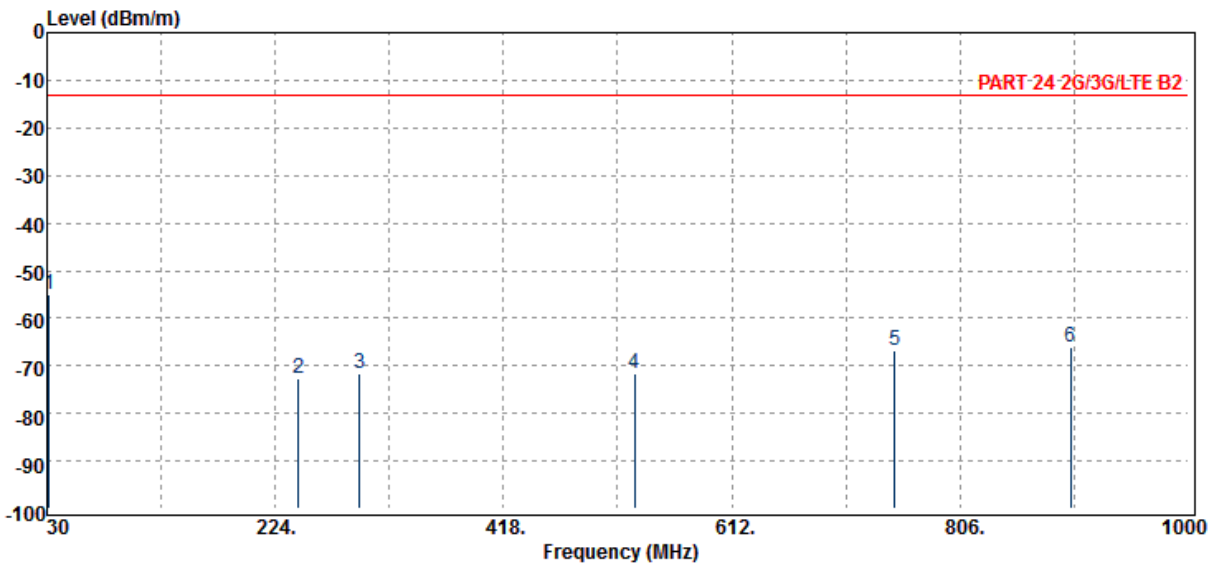
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ARFCN	:CH 19193 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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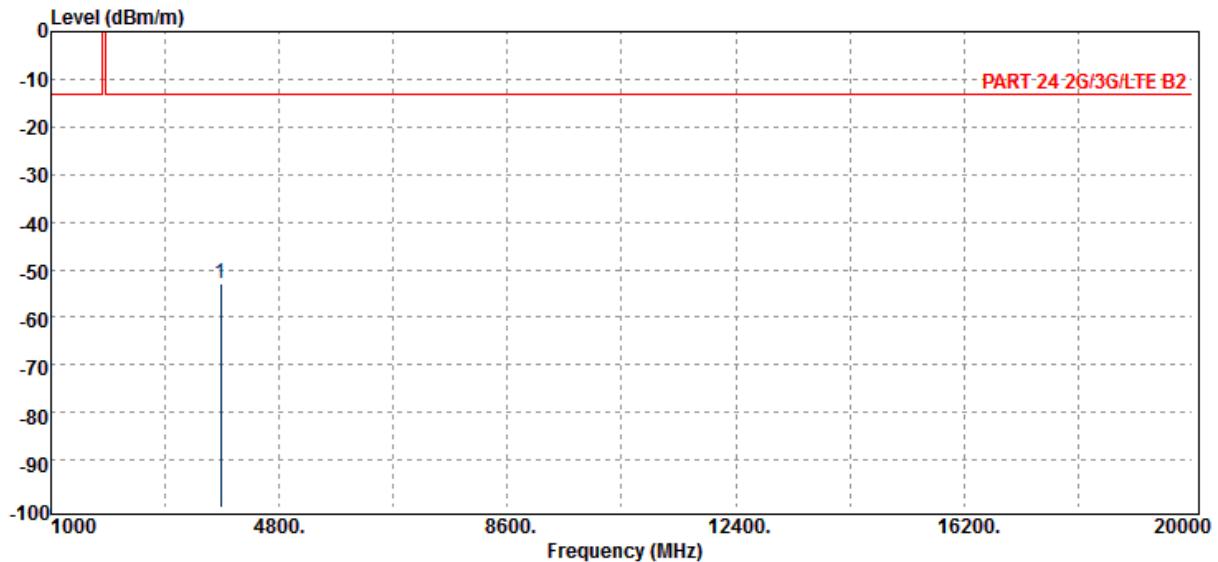
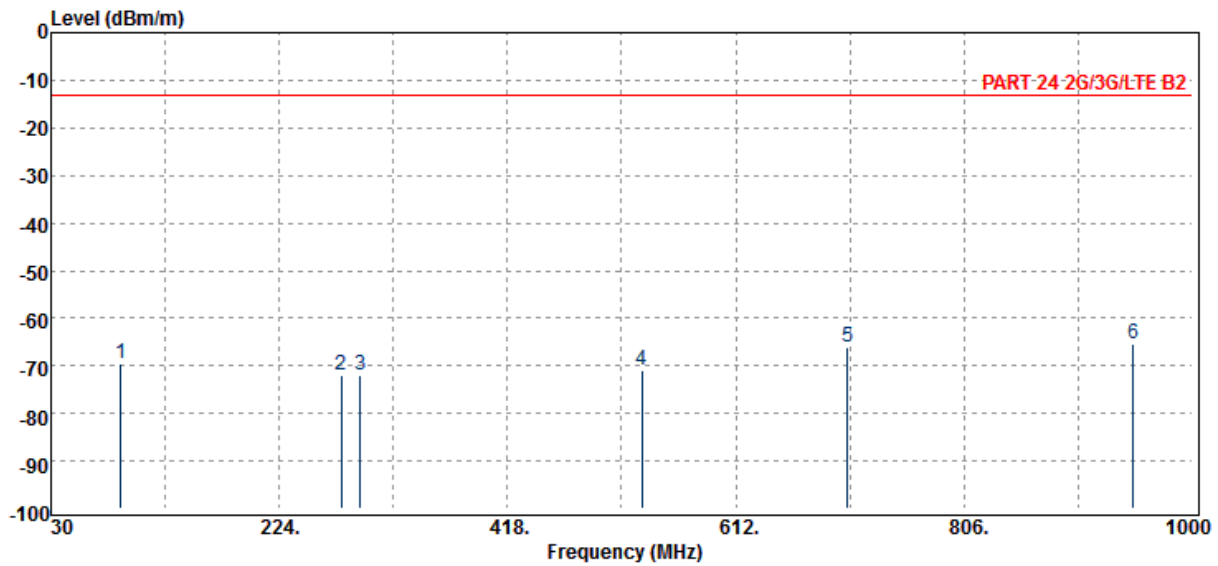
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ARFCN	:CH 19193 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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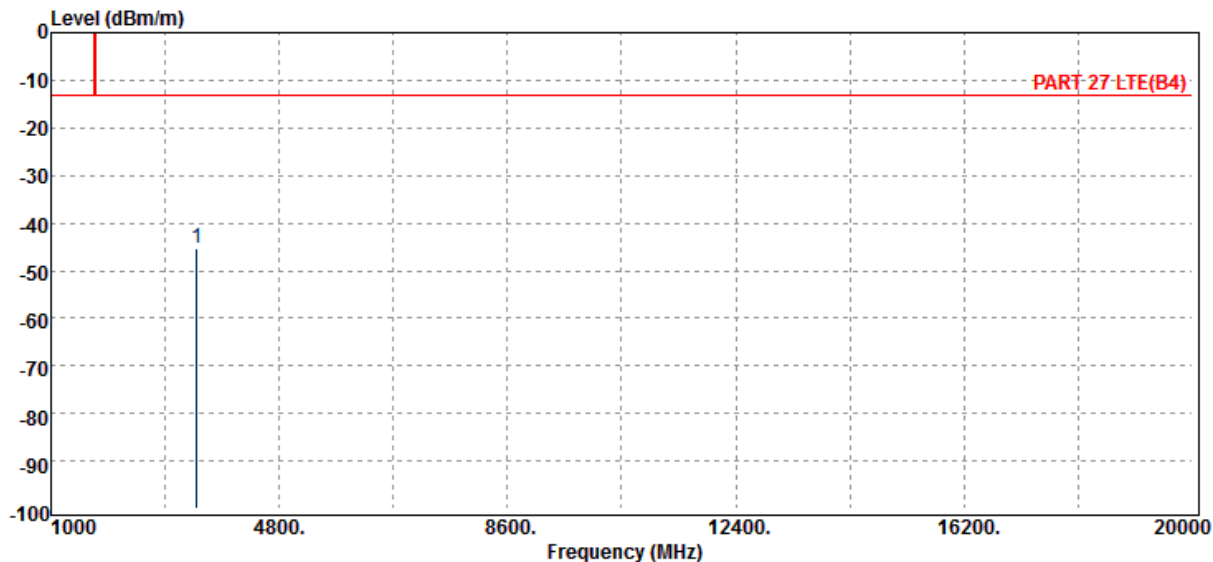
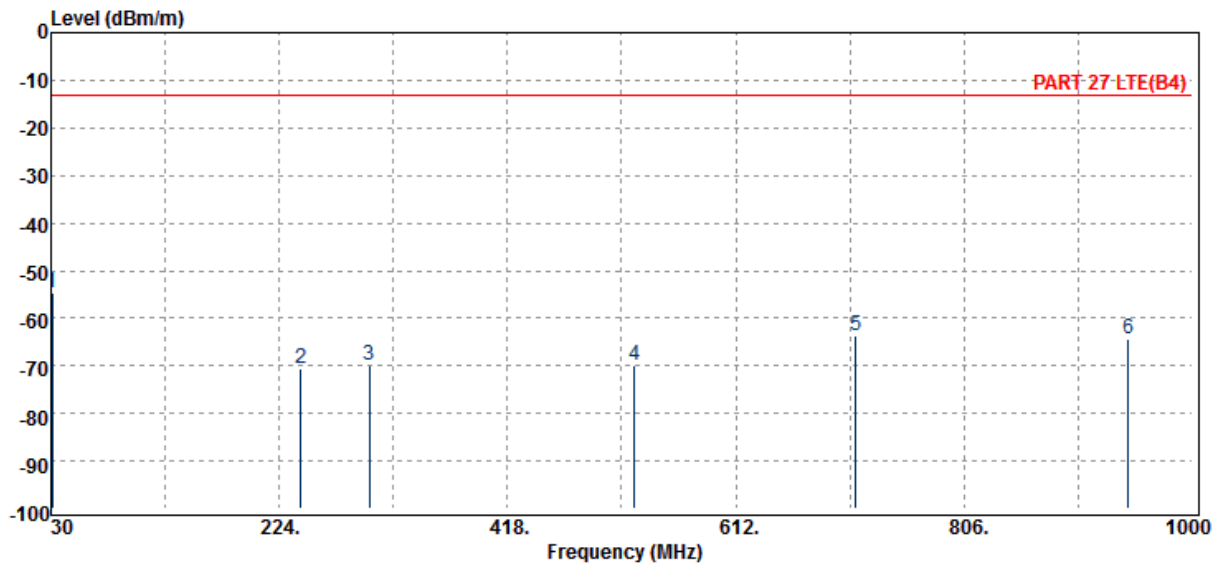
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 4(The Worst Case)**

ARFCN	:CH 19975 16QAM BW 5	Test Date	:2014-11-17
	RB 1 0		
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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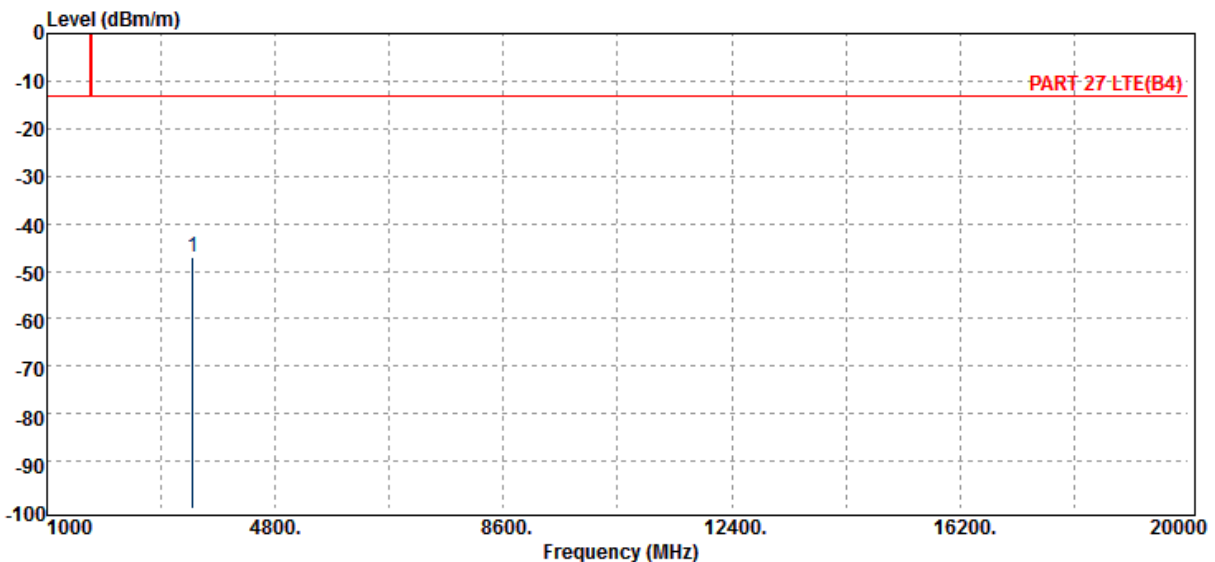
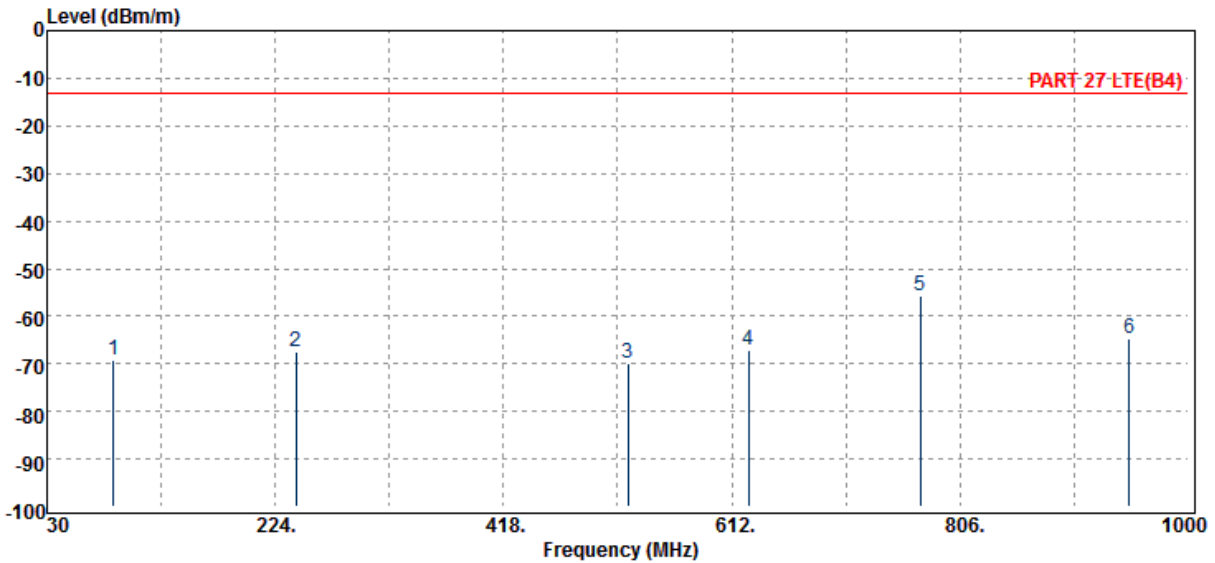
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ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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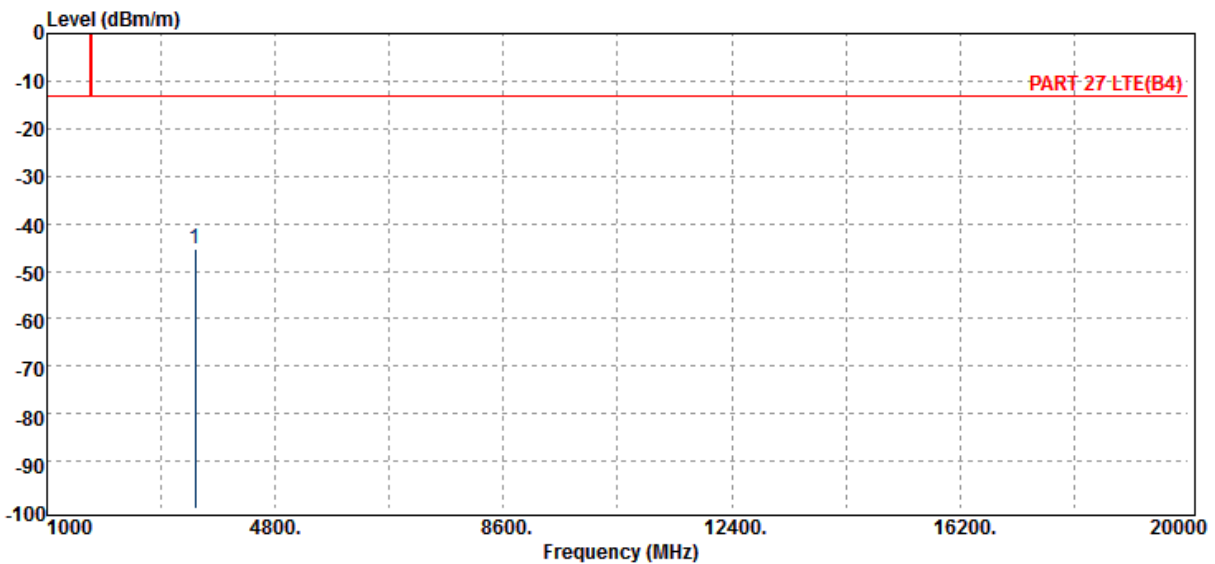
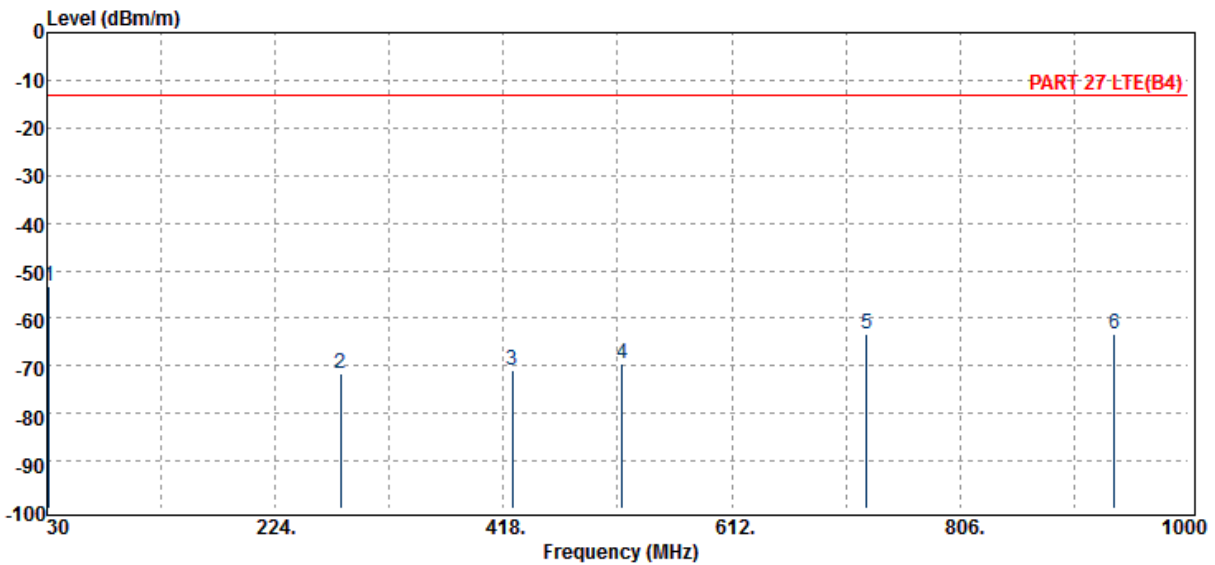
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ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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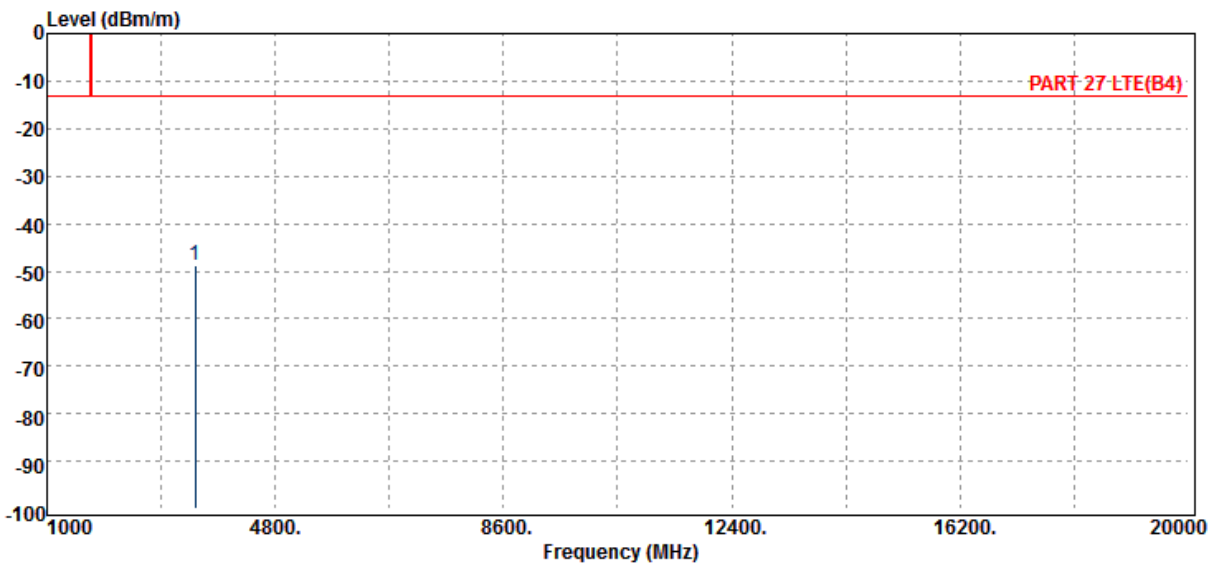
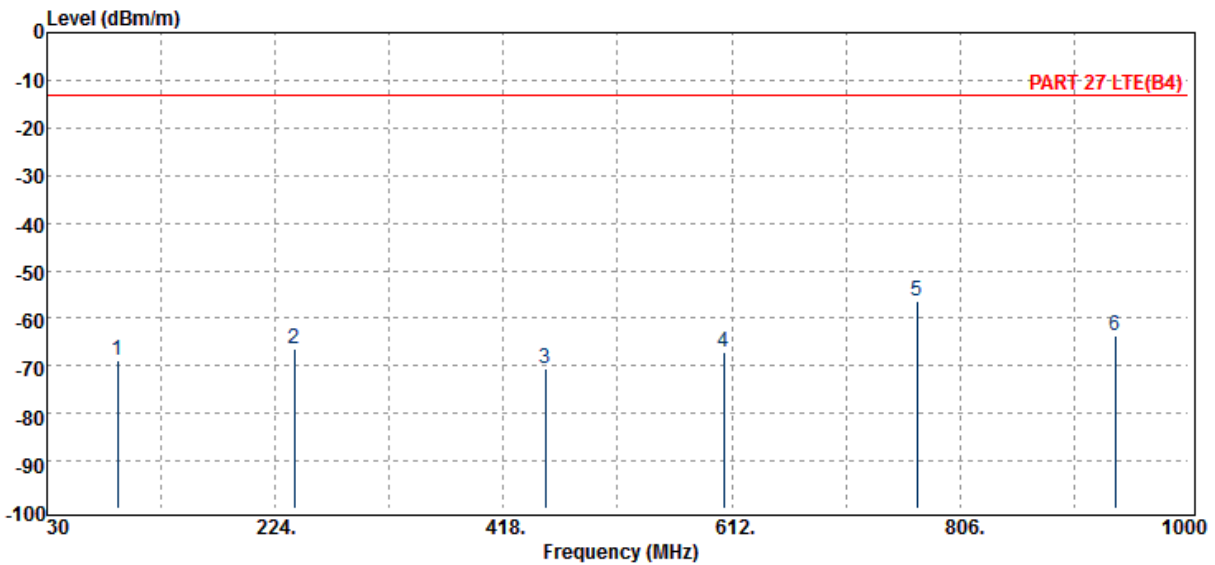
t (886-2) 2299-3279

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ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

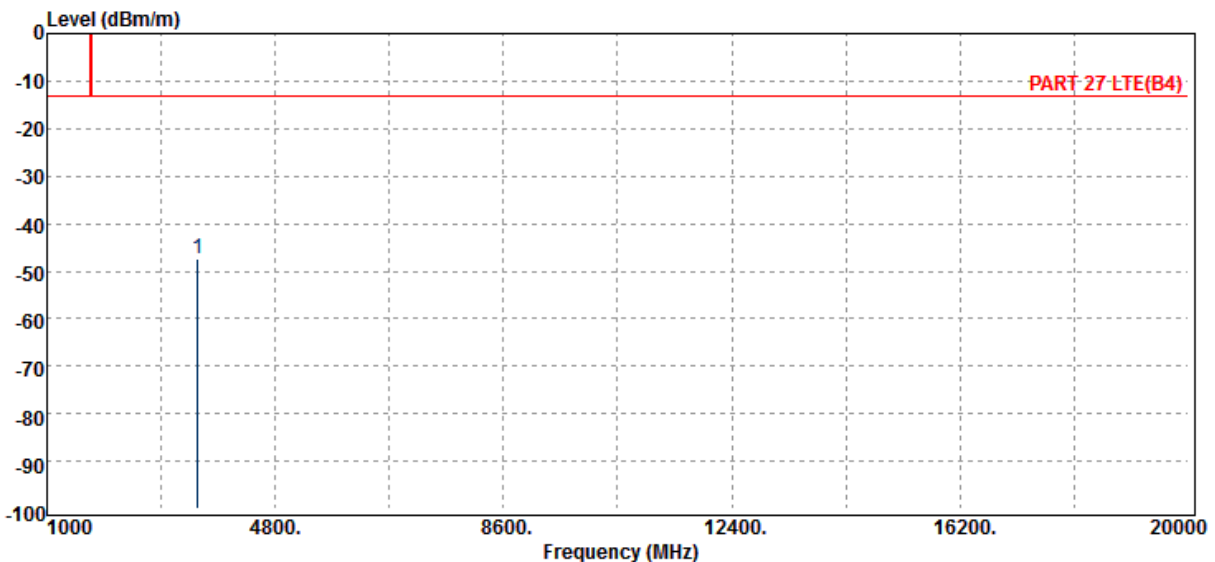
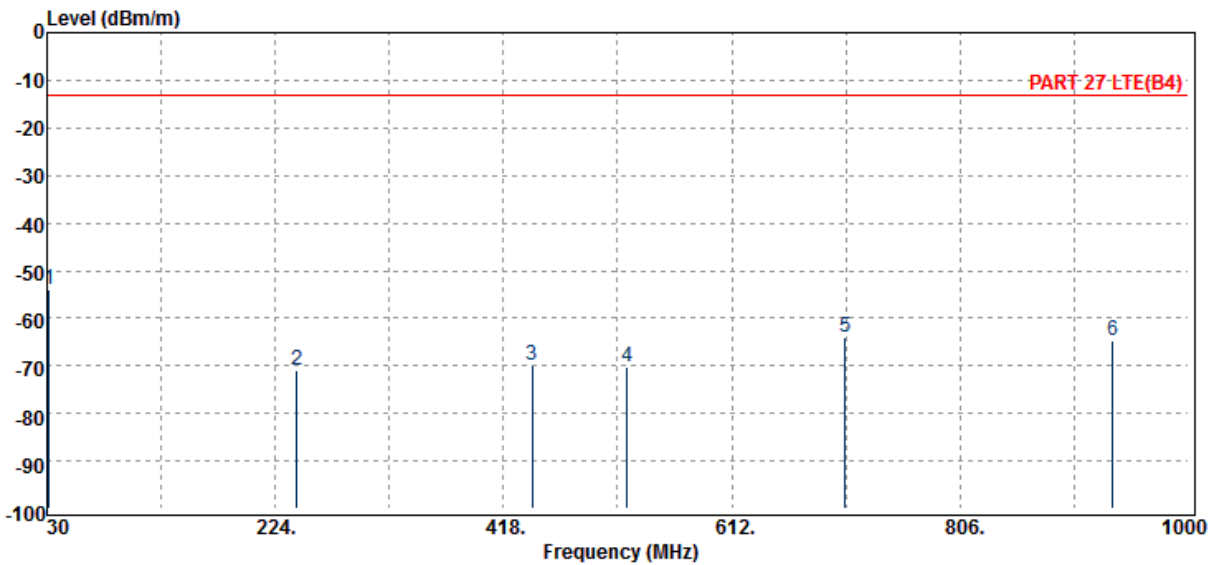


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ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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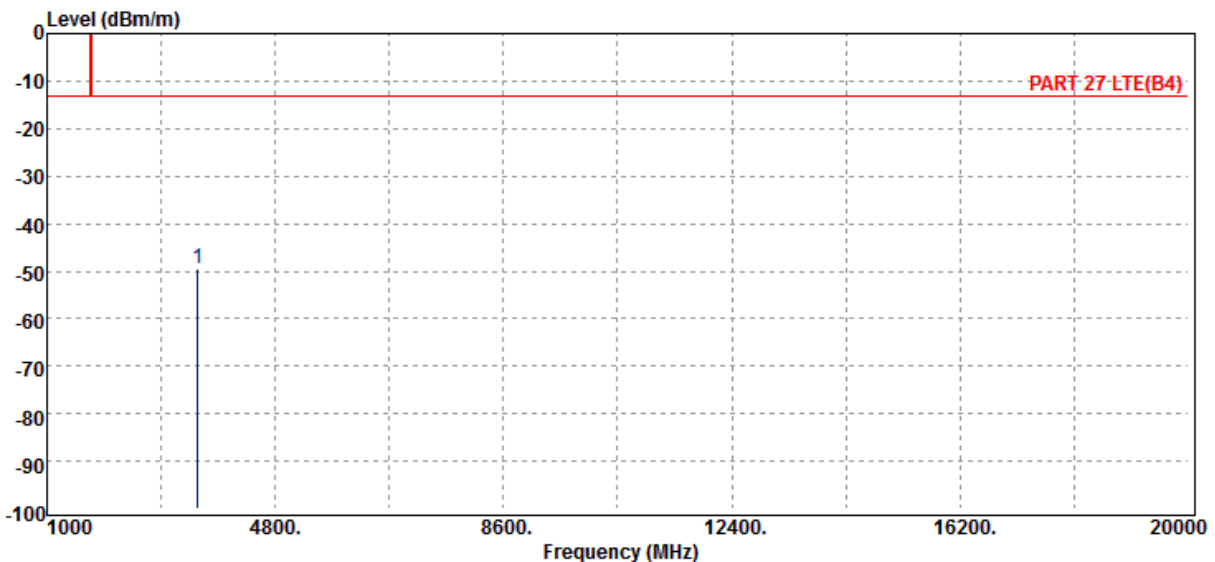
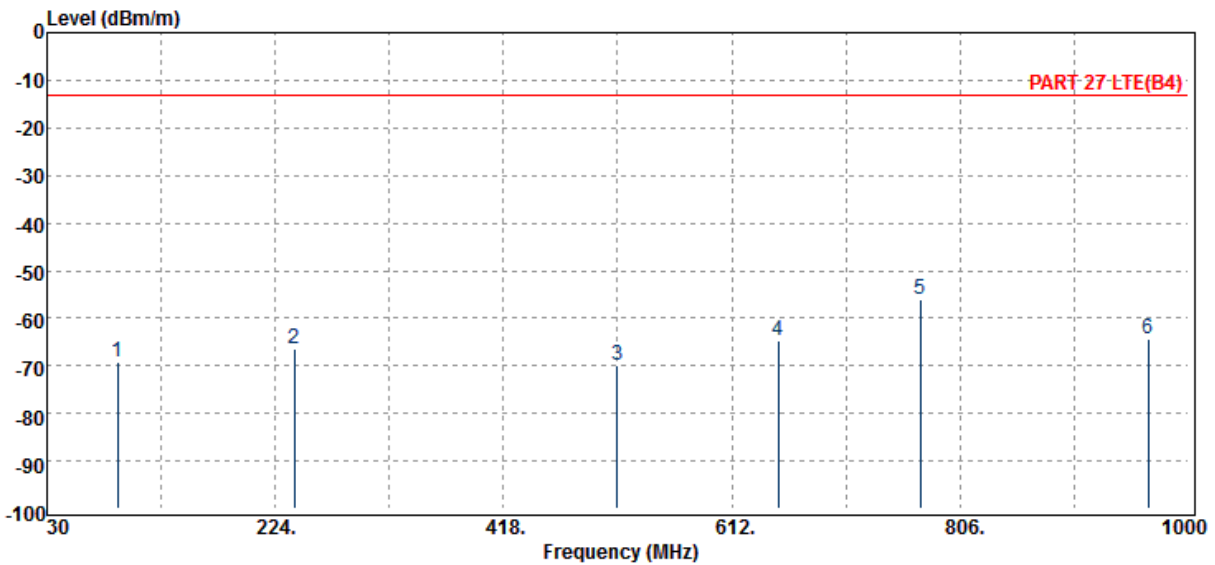
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ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2014-11-17
Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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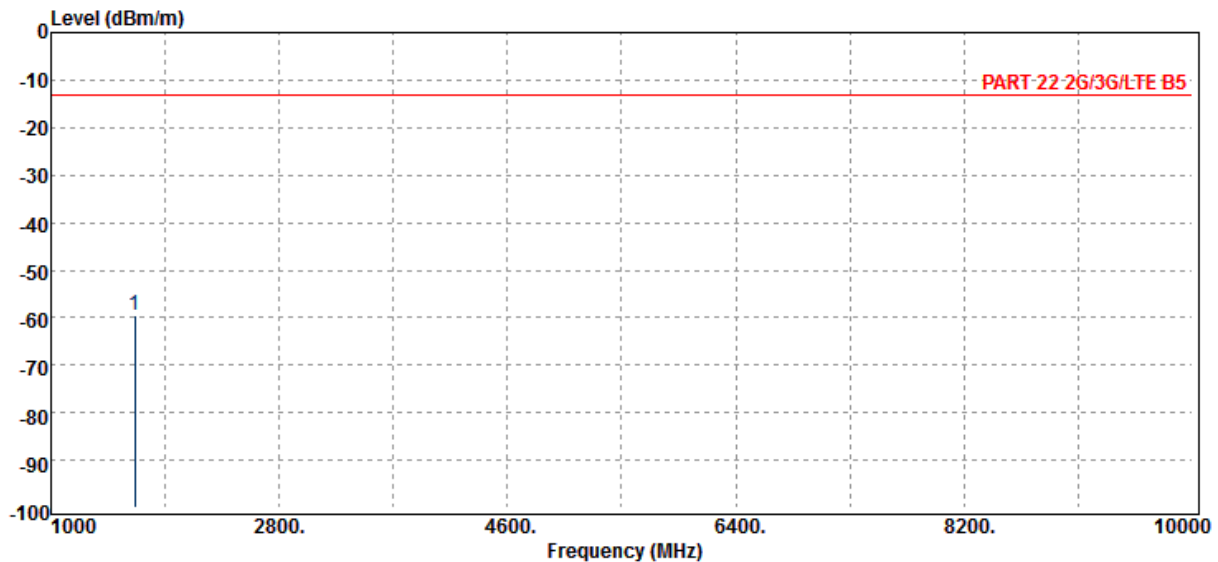
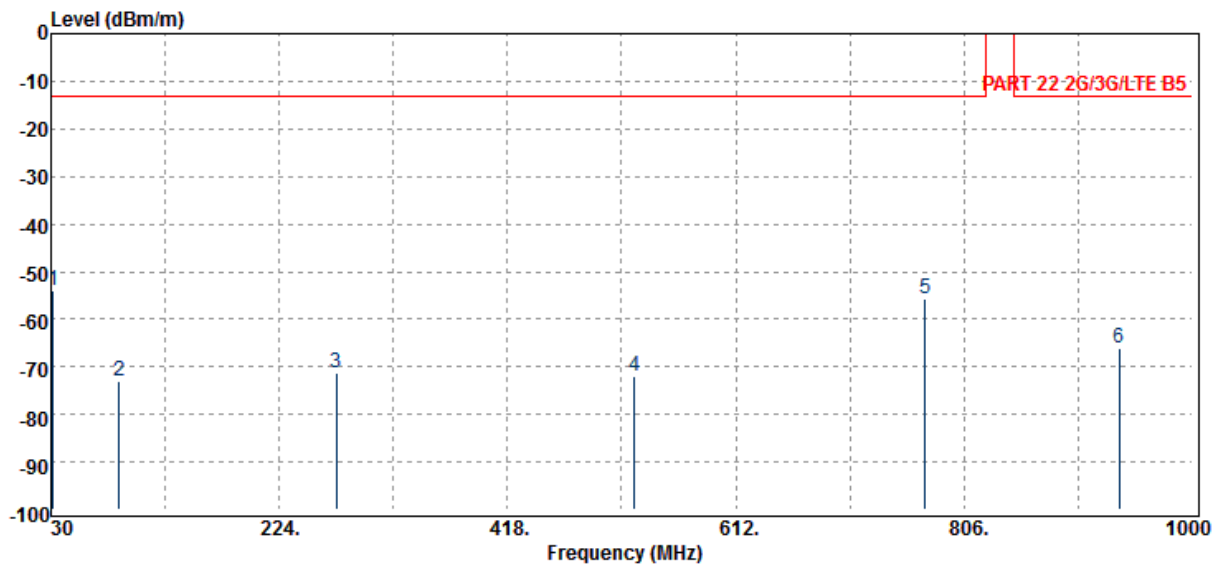
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**Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band5(The Worst Case)**

ARFCN	:CH 20450 16QAM BW 10 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



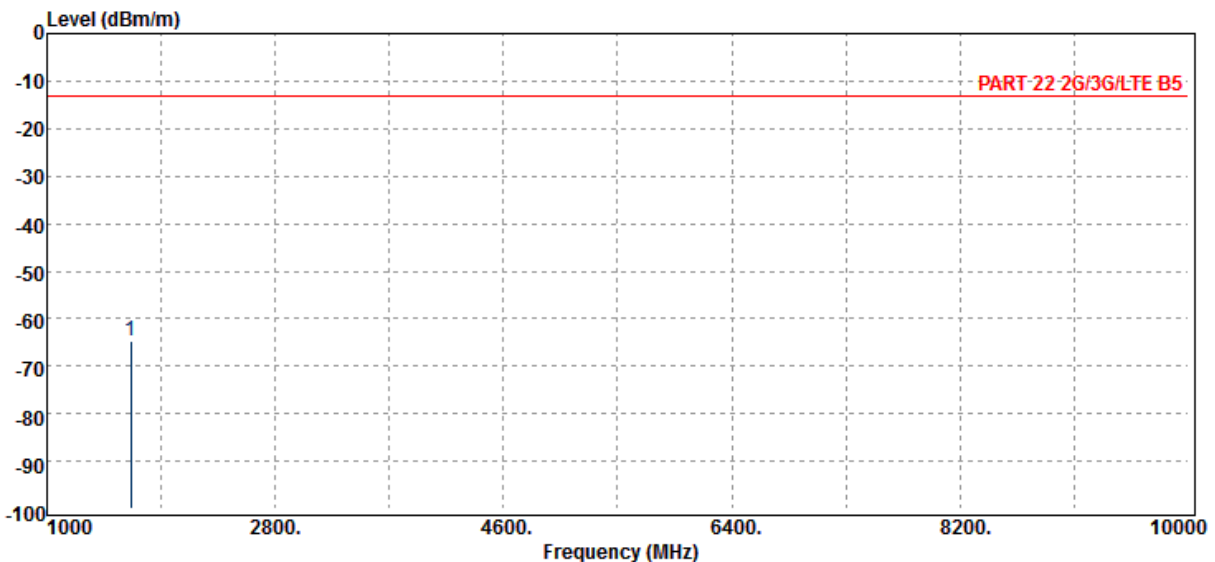
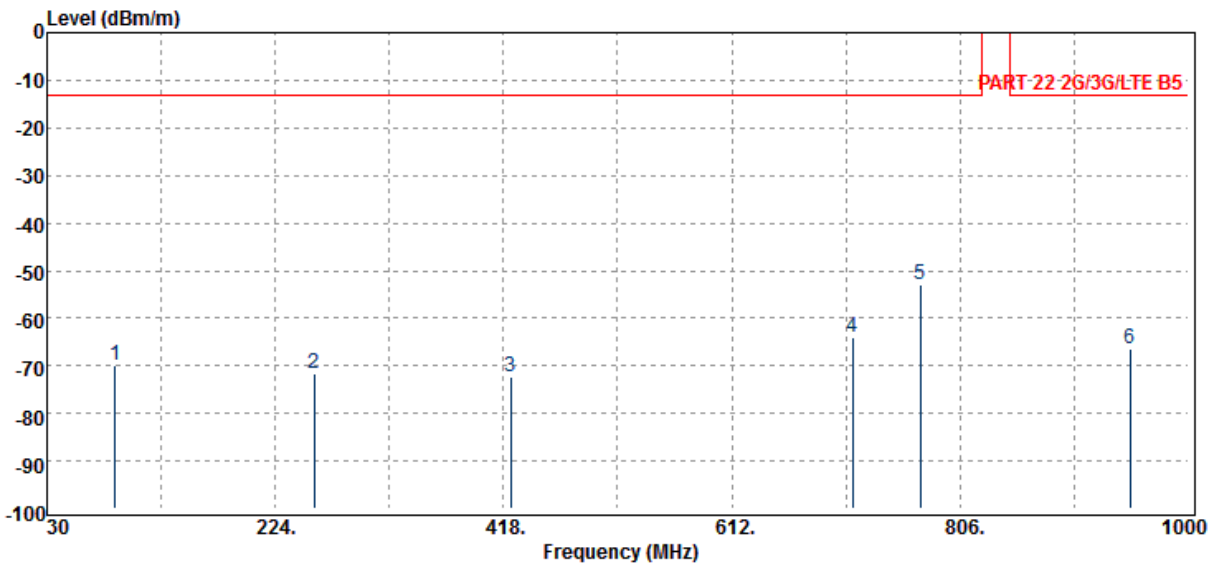
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ARFCN	:CH 20450 16QAM BW	Test Date	:2014-11-18
	10 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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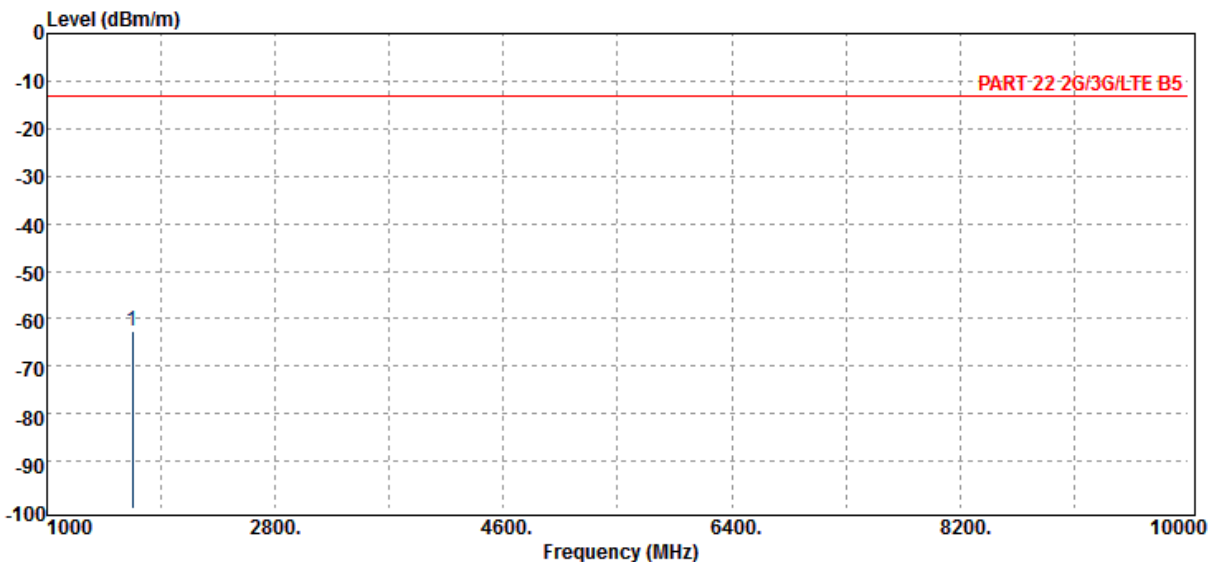
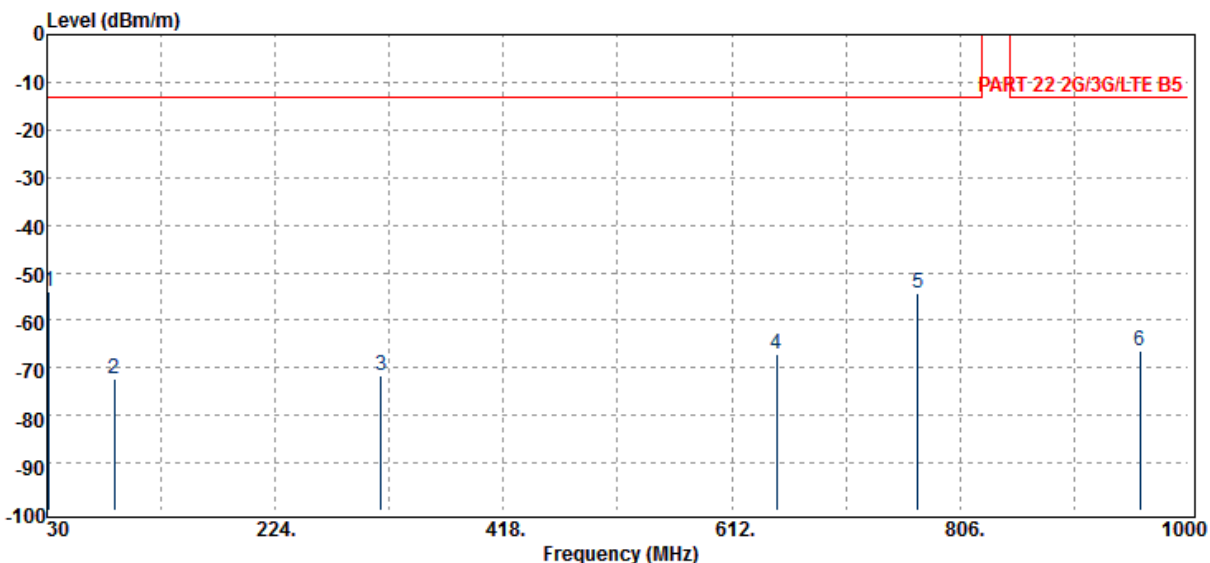
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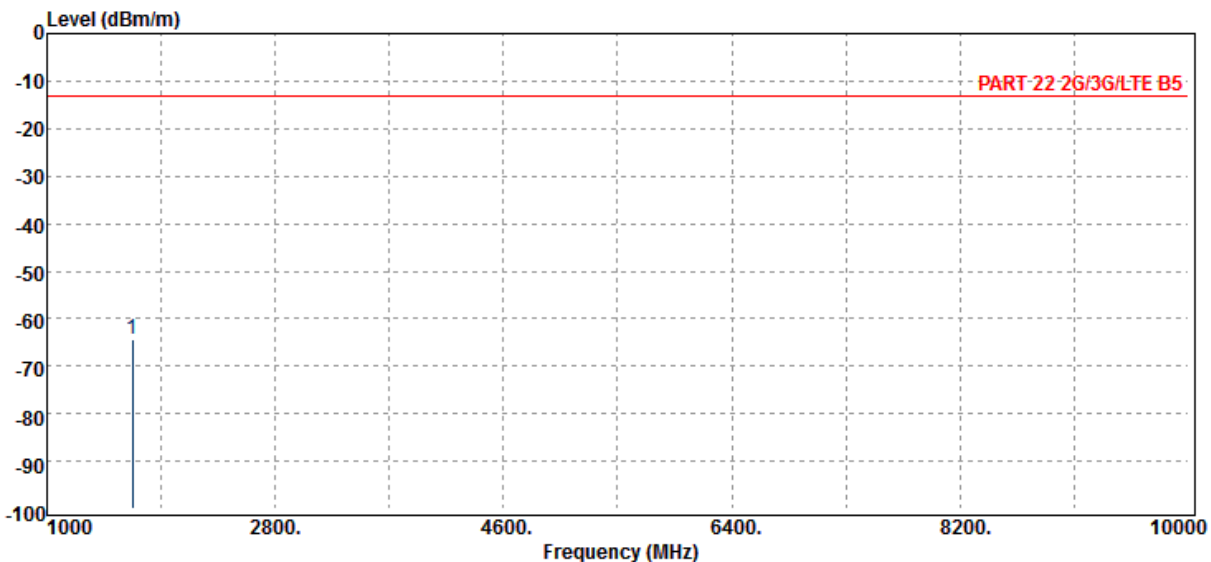
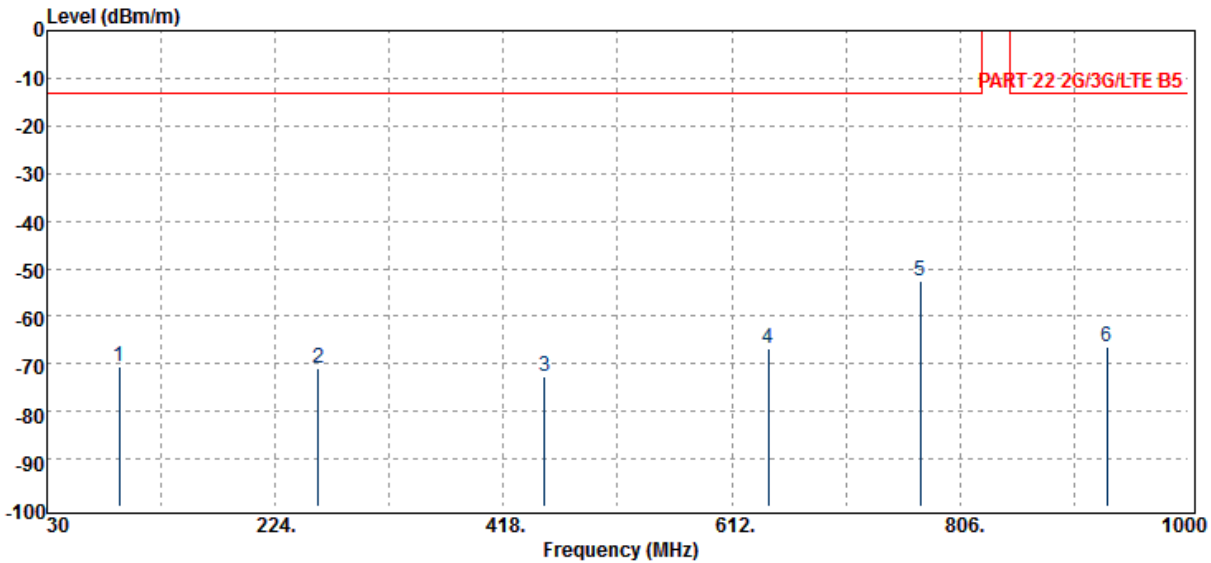
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ARFCN	:CH 20525 16QAM BW	Test Date	:2014-11-18
	10 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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ARFCN	:CH 20525 16QAM BW	Test Date	:2014-11-18
	10 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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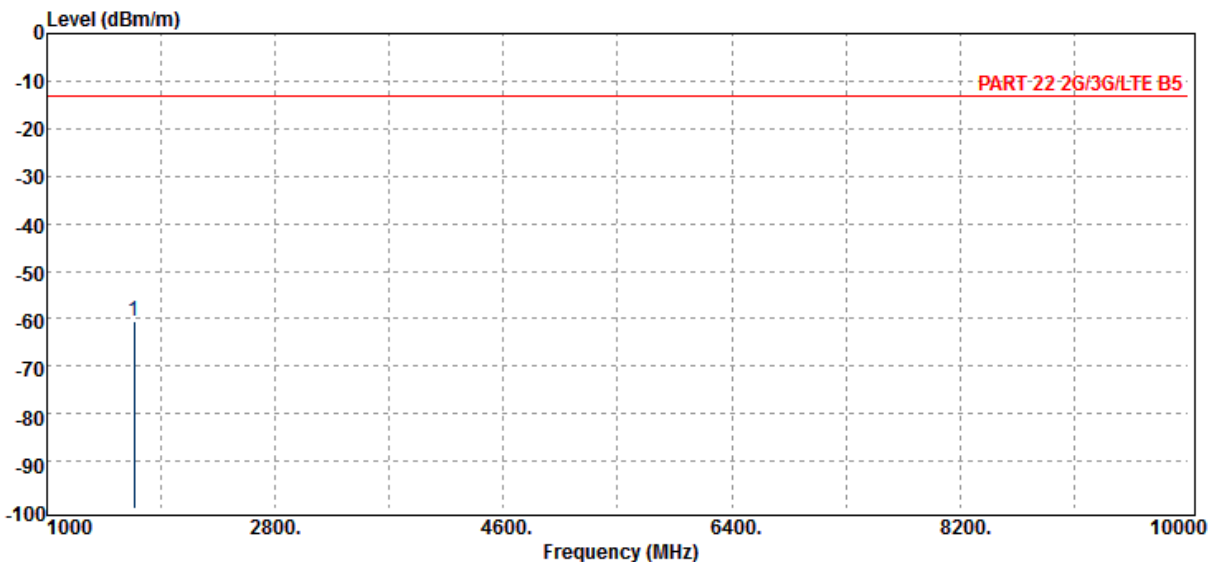
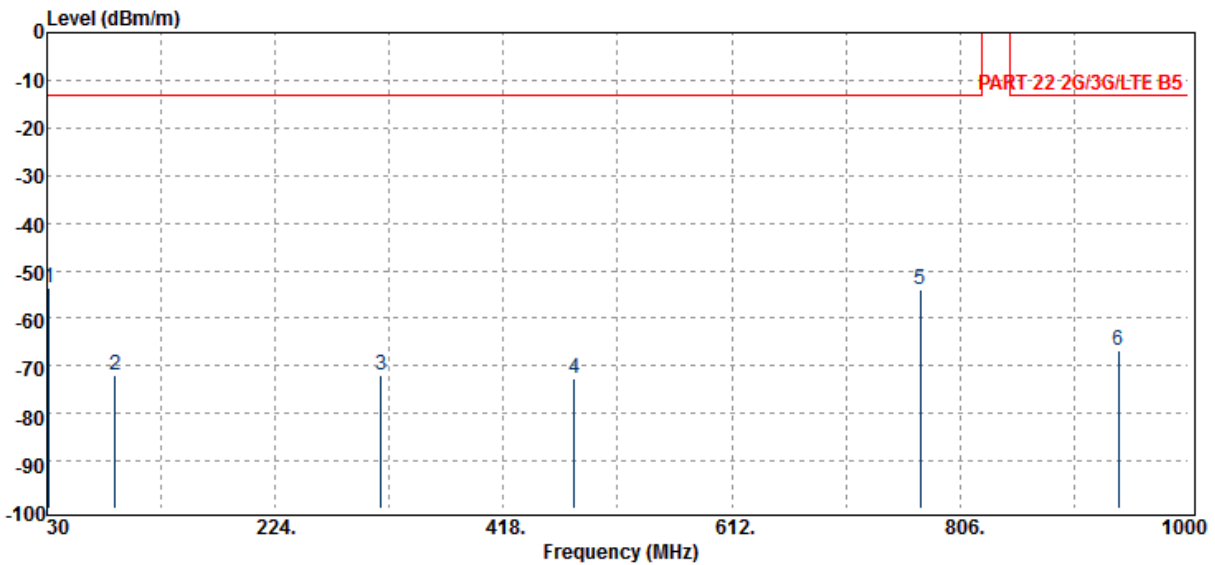
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ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

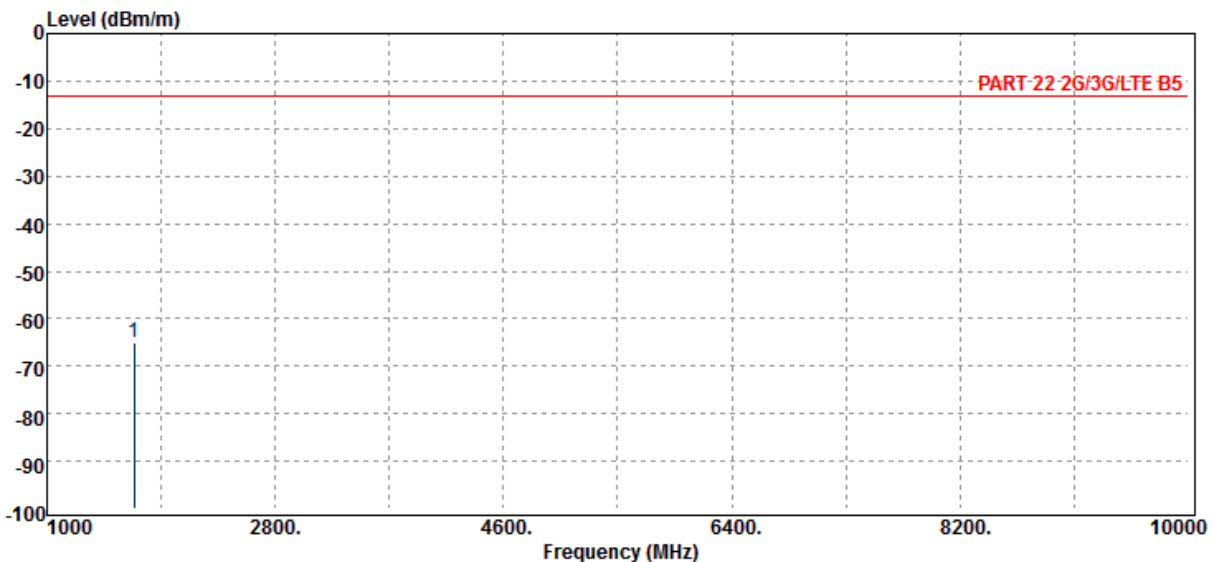
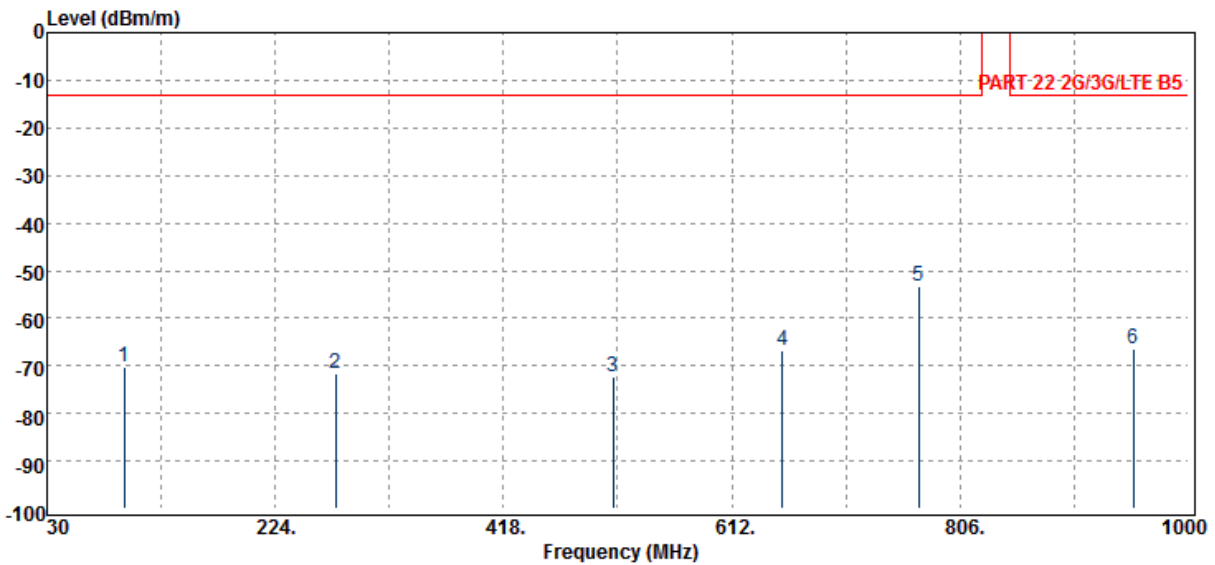


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ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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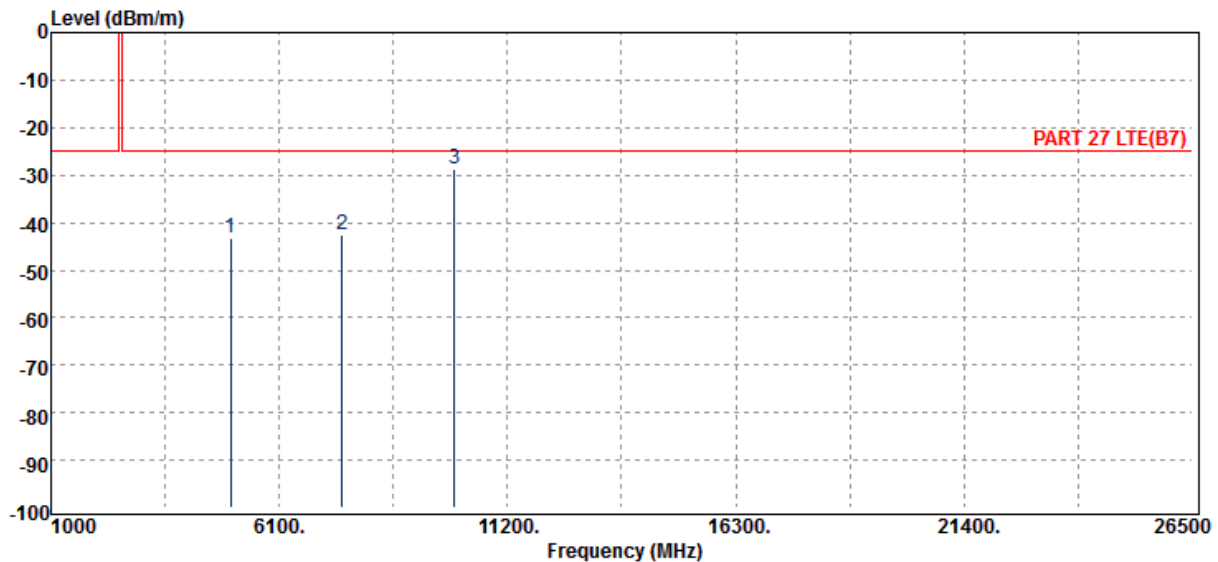
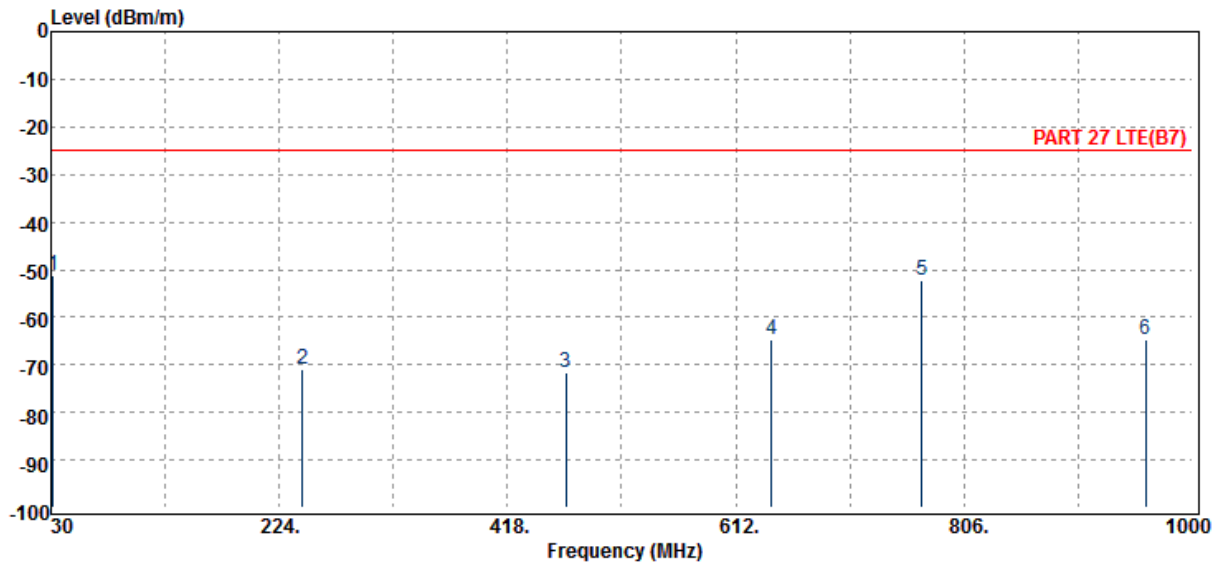
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)**

ARFCN	:CH 20775 16QAM BW 5	Test Date	:2014-11-28
	RB 1 24		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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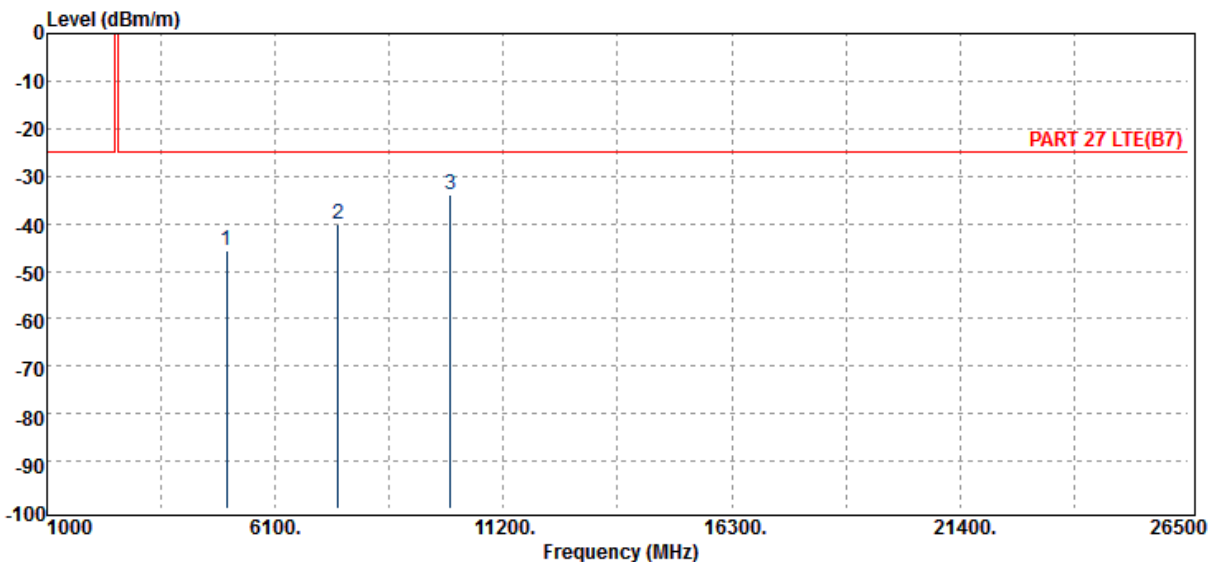
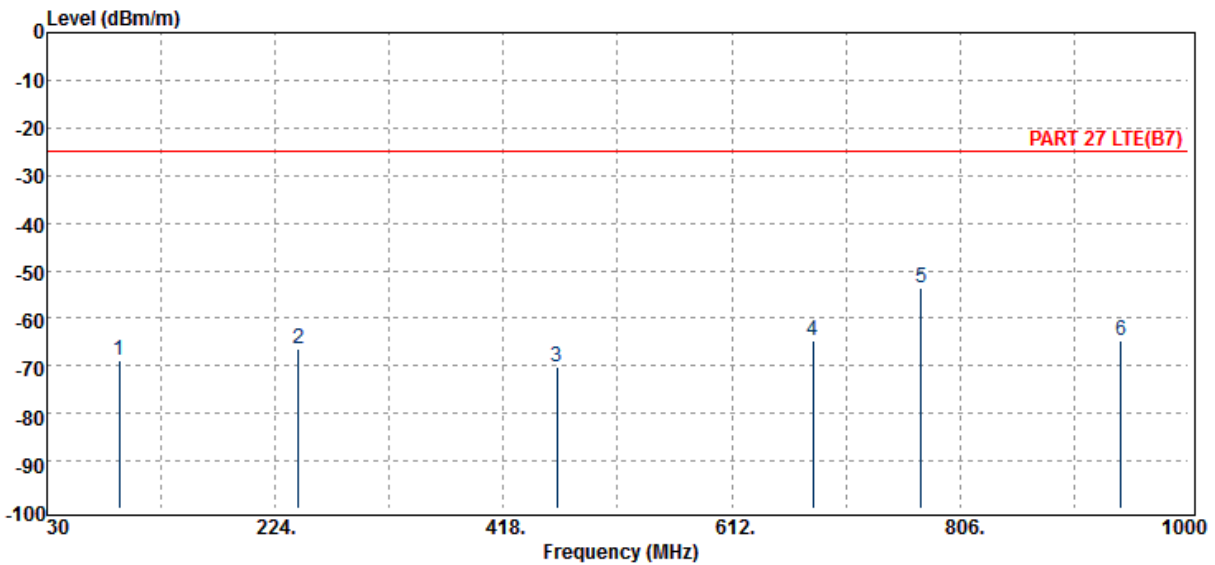
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ARFCN	:CH 20775 16QAM BW 5	Test Date	:2014-11-28
	RB 1 24		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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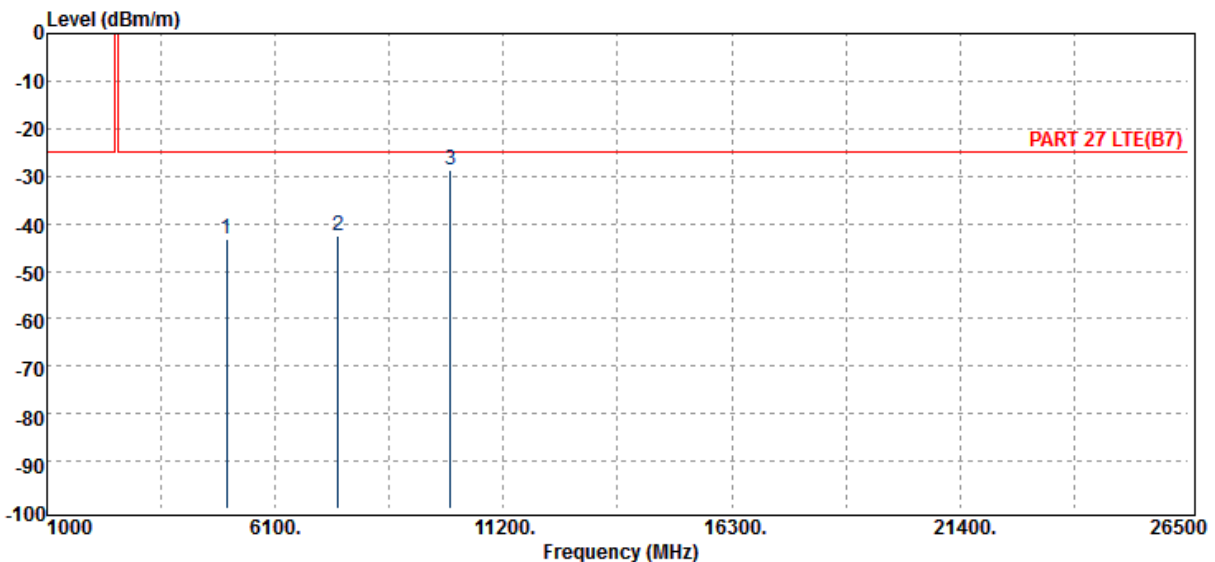
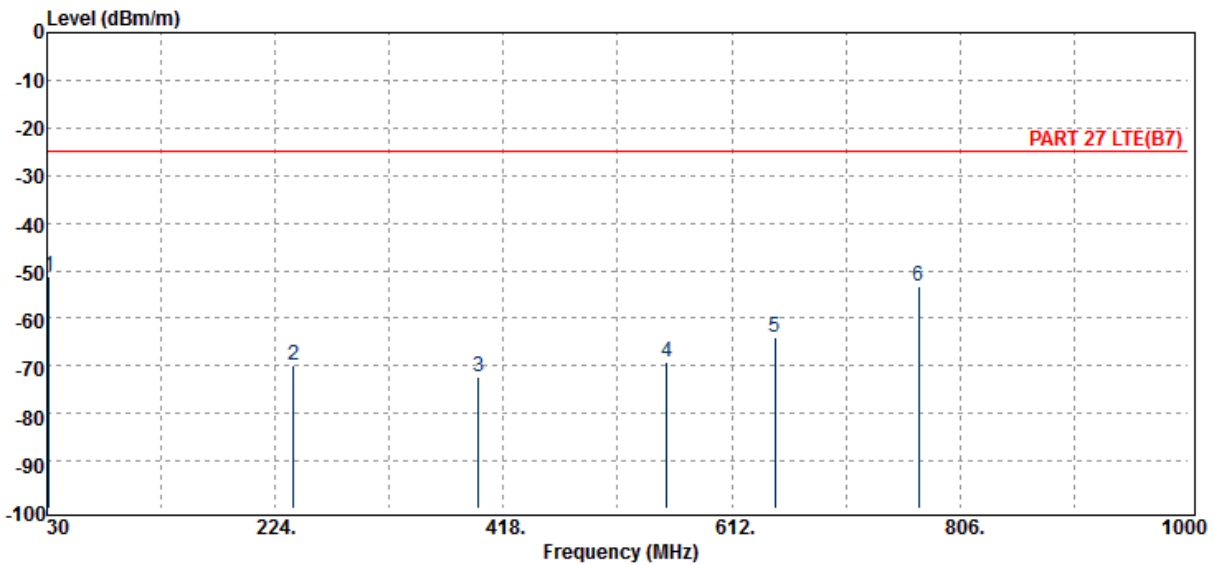
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ARFCN	:CH 21100 16QAM BW 5 RB 1 24	Test Date	:2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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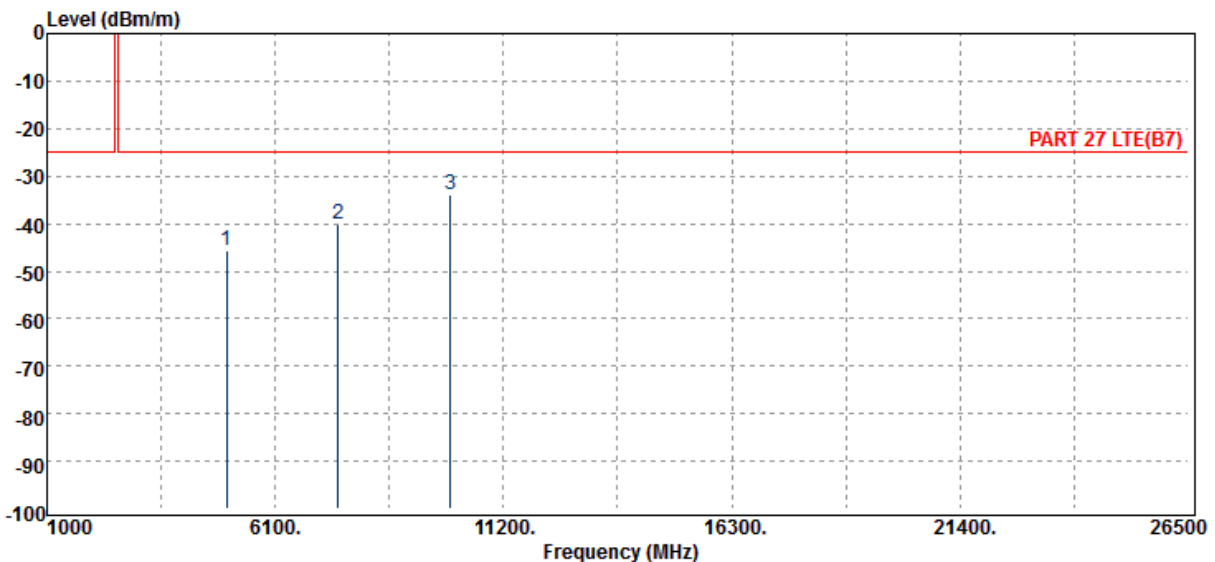
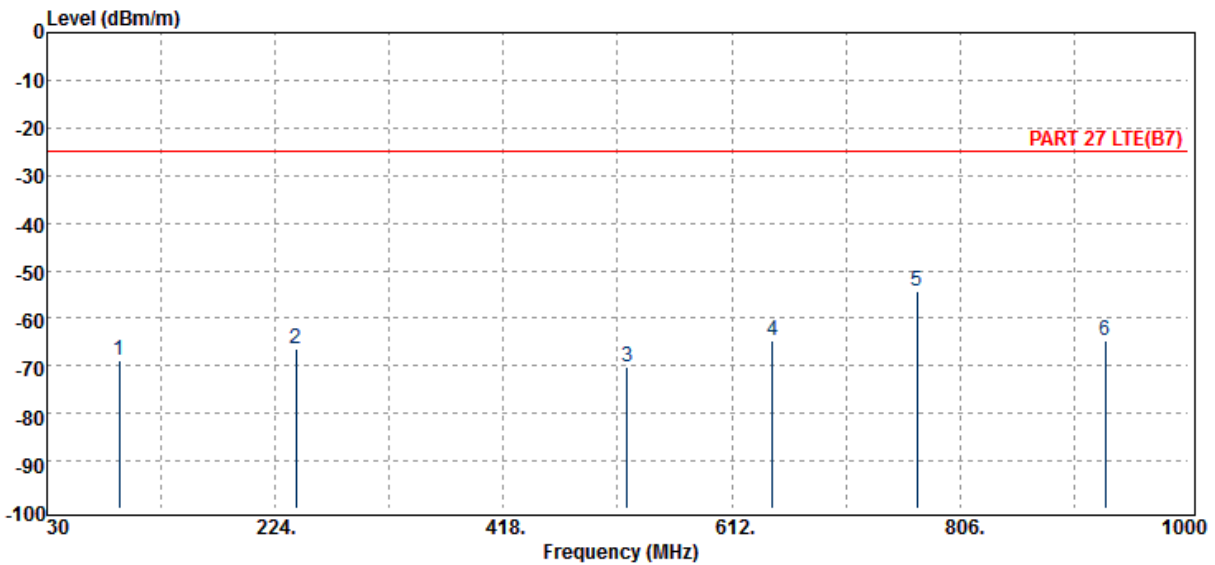
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ARFCN	:CH 21100 16QAM BW 5	Test Date	:2014-11-28
	RB 1 24		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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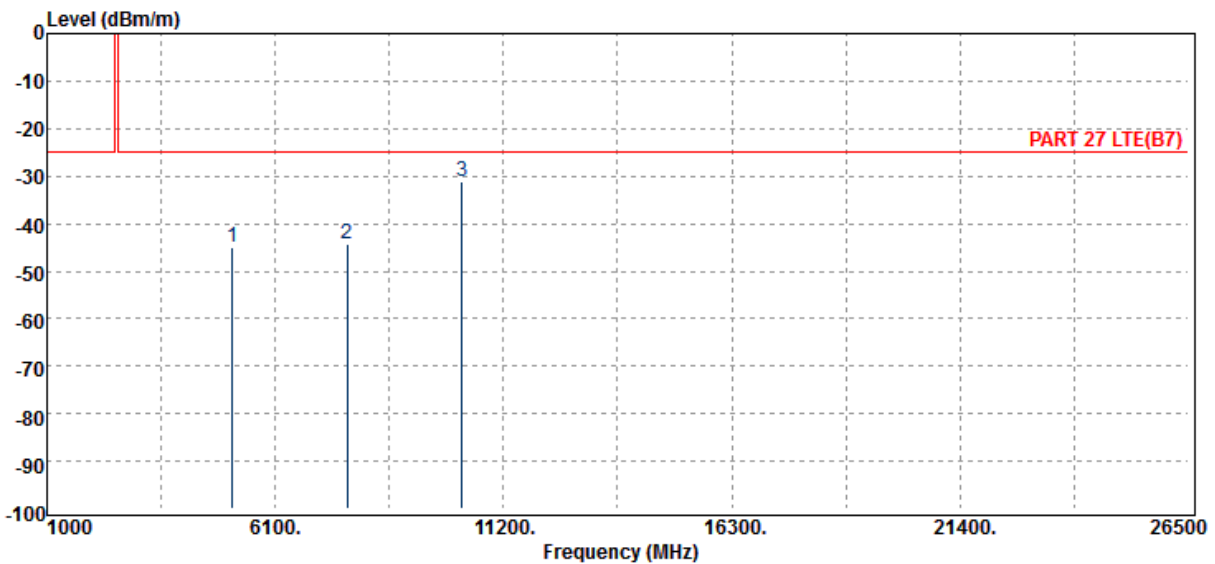
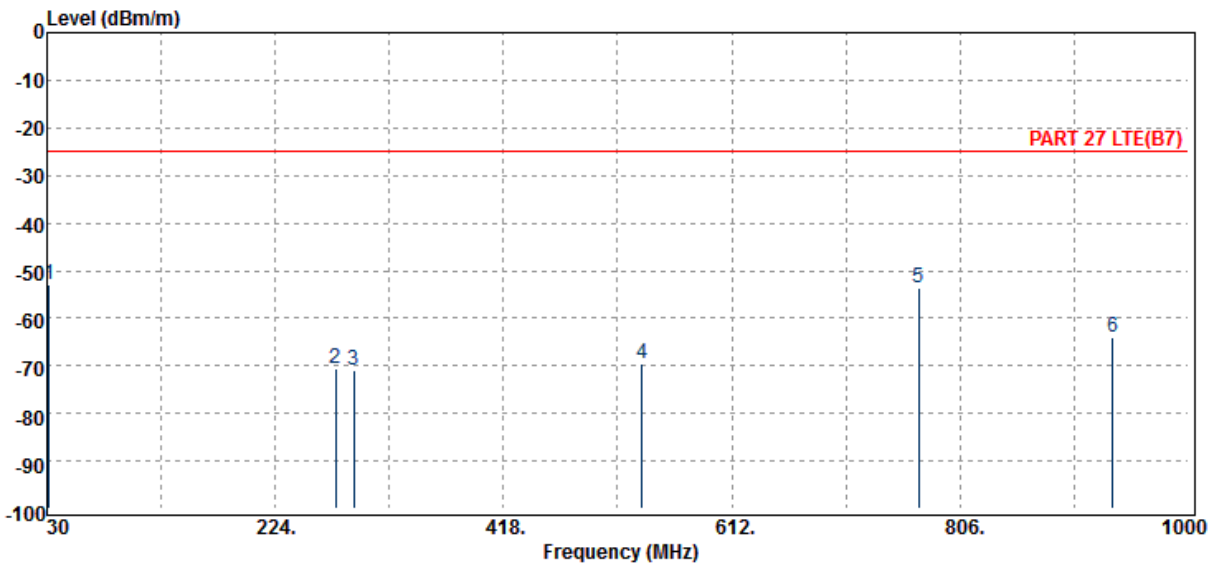
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ARFCN	:CH 21425 16QAM BW 5	Test Date	:2014-11-28
	RB 1 24		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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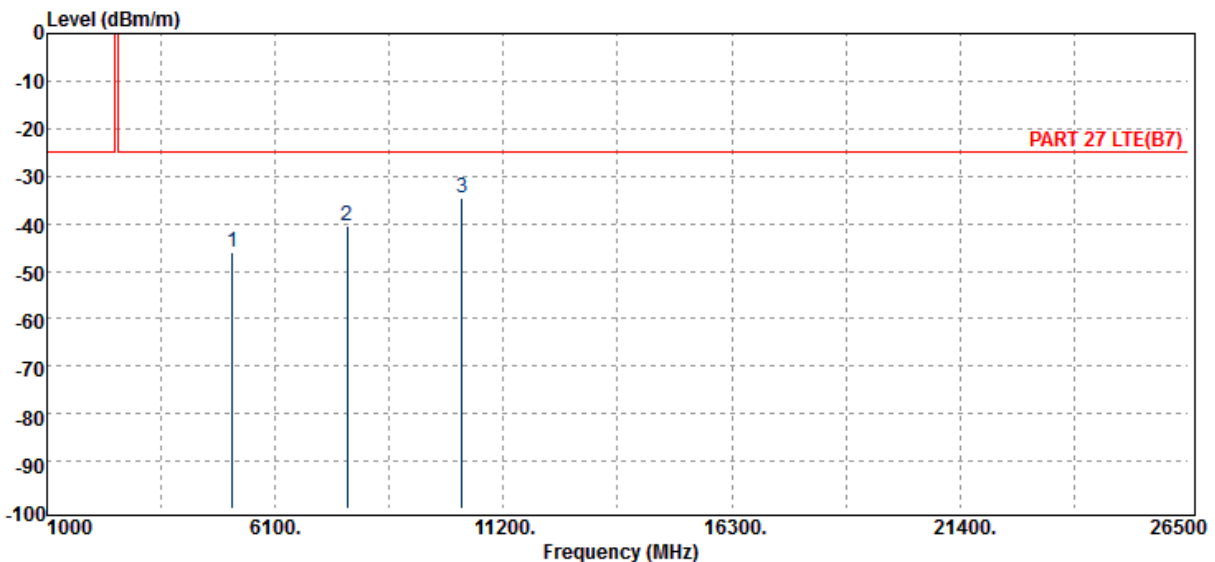
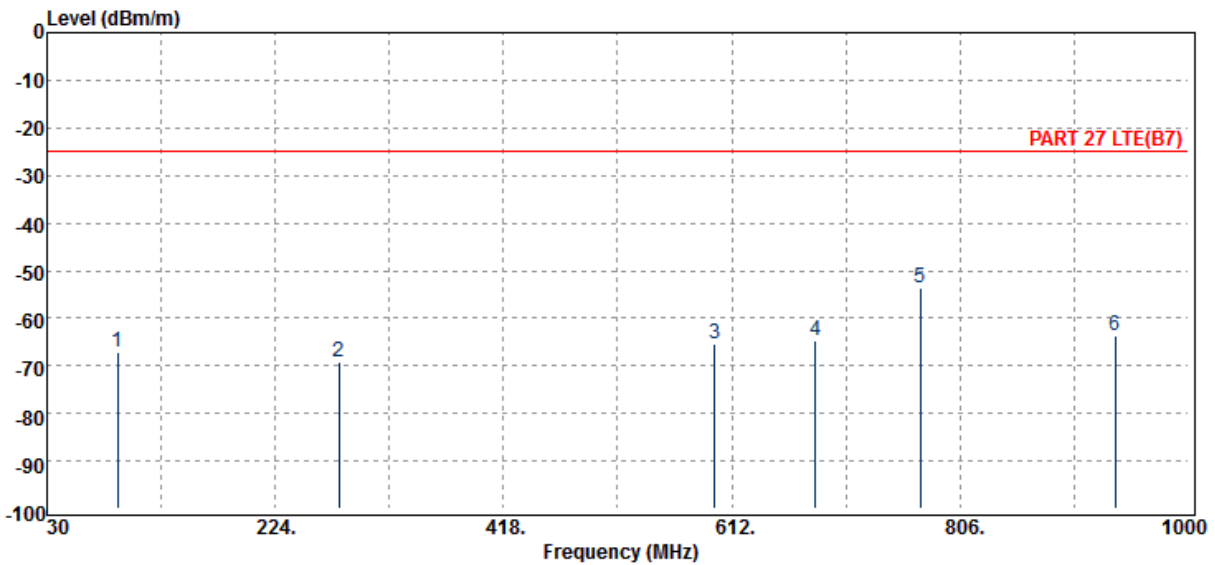
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ARFCN	:CH 21425 16QAM BW 5 RB 1 24	Test Date	:2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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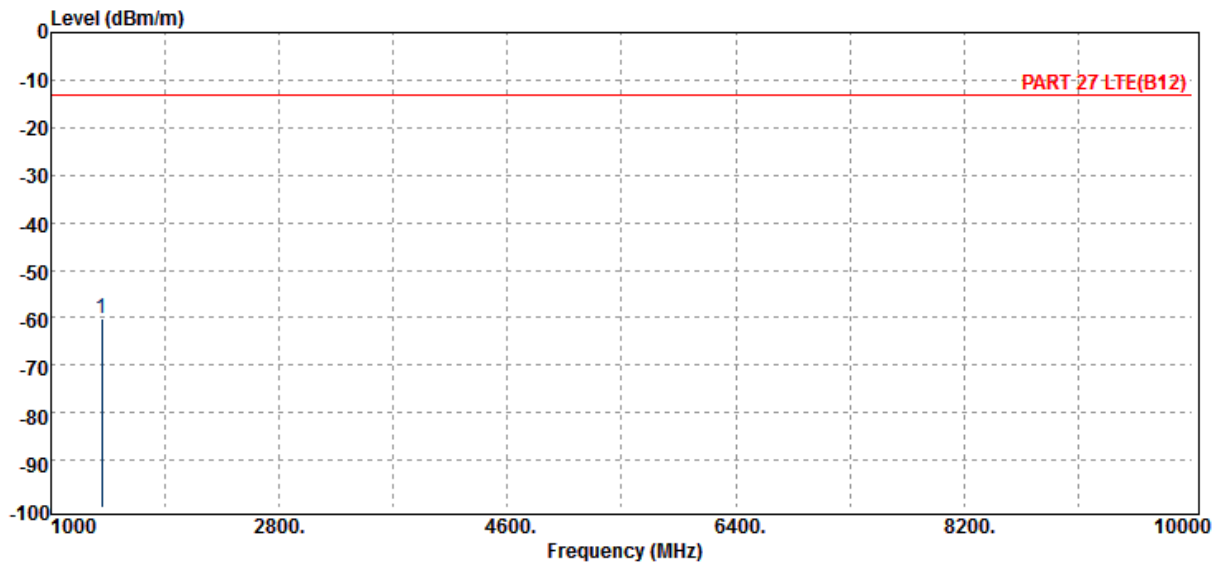
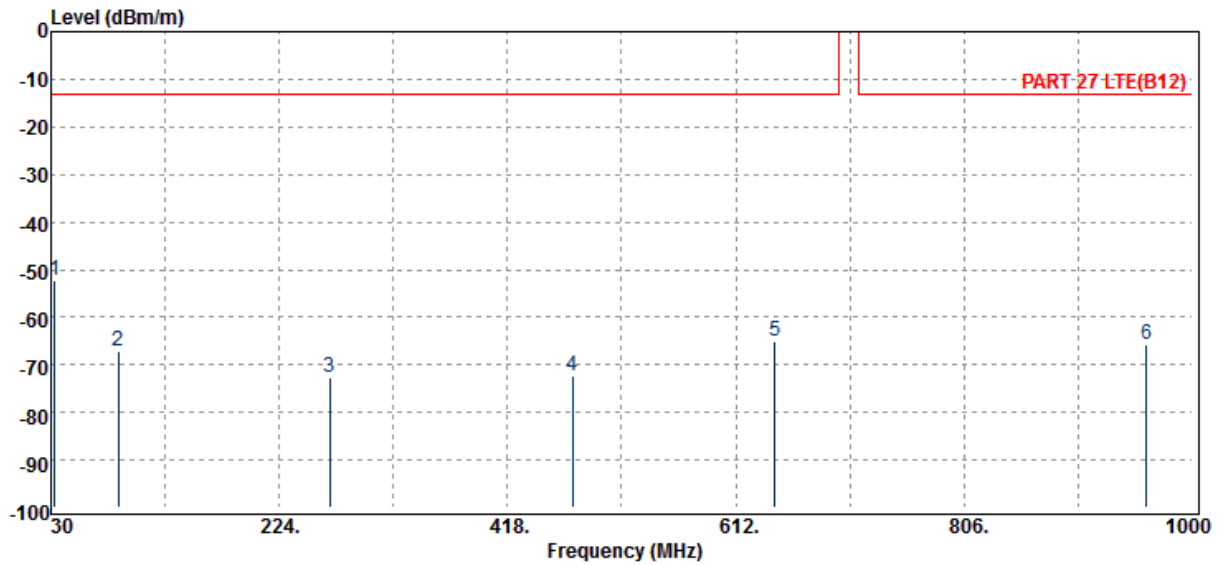
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 12(The Worst Case)**

ARFCN	:CH 23035 16QAM BW 5	Test Date	:2014-11-18
	RB 1 0		
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:701.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

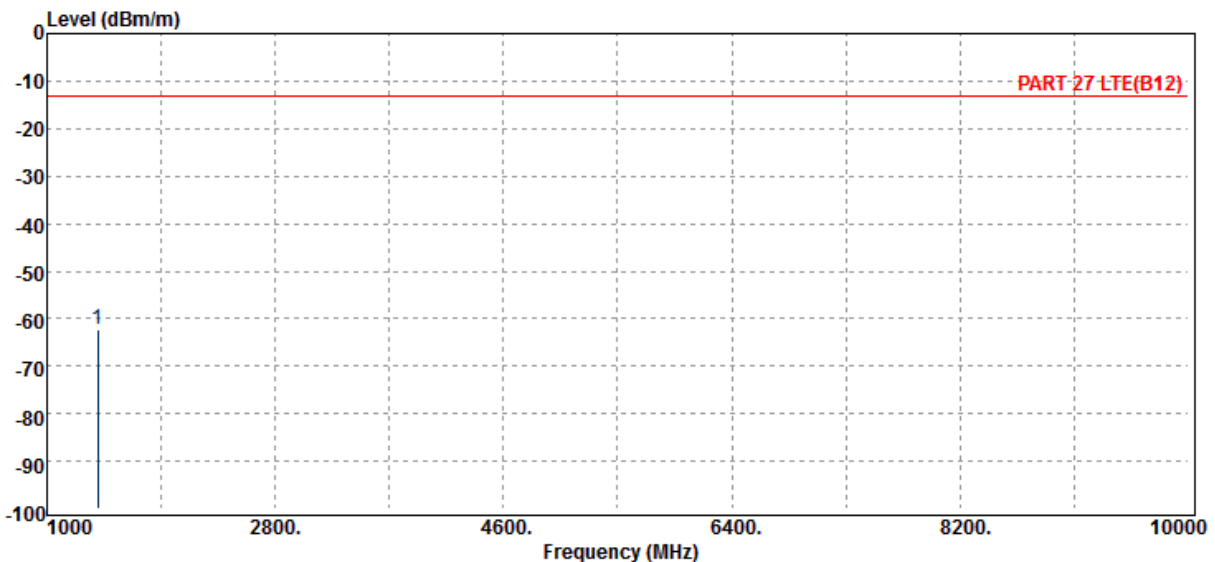
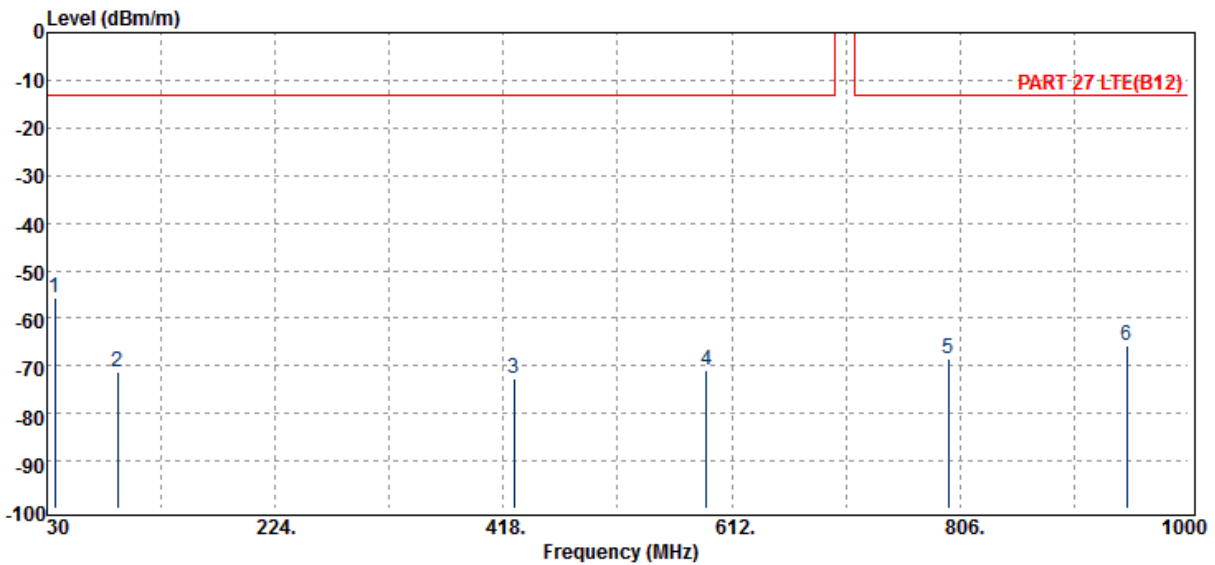


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ARFCN	:CH 23035 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:701.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

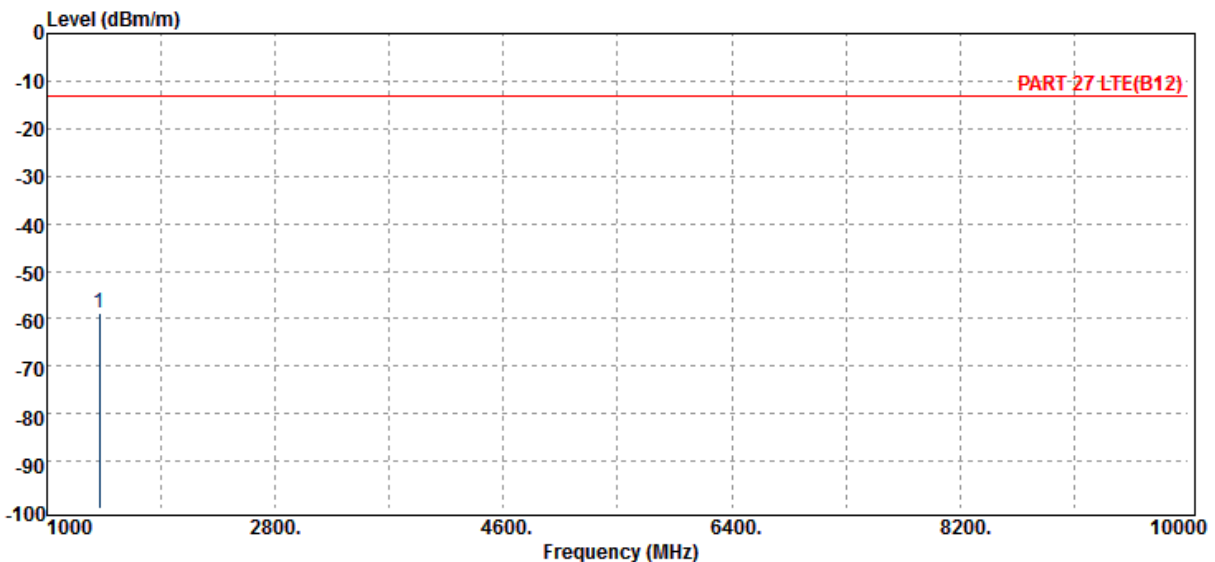
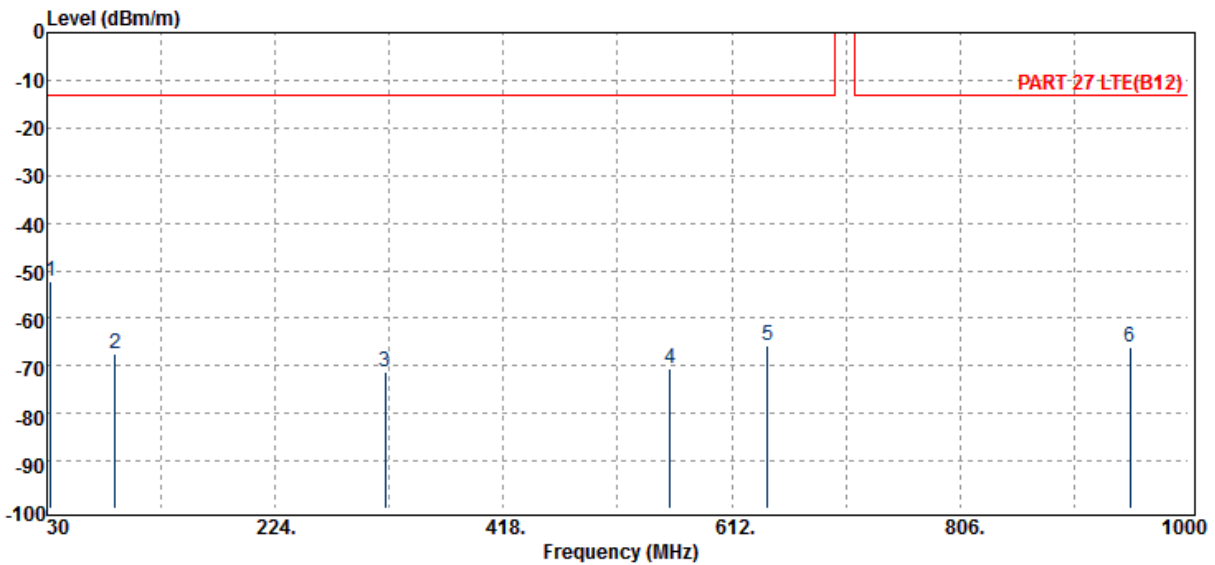


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ARFCN	:CH 23095 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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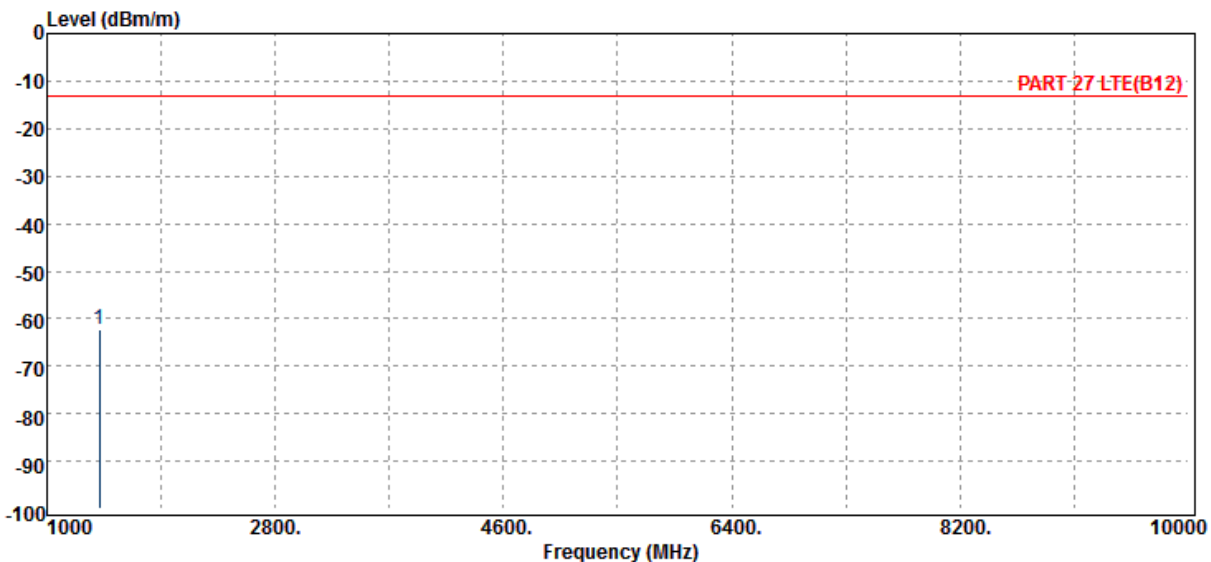
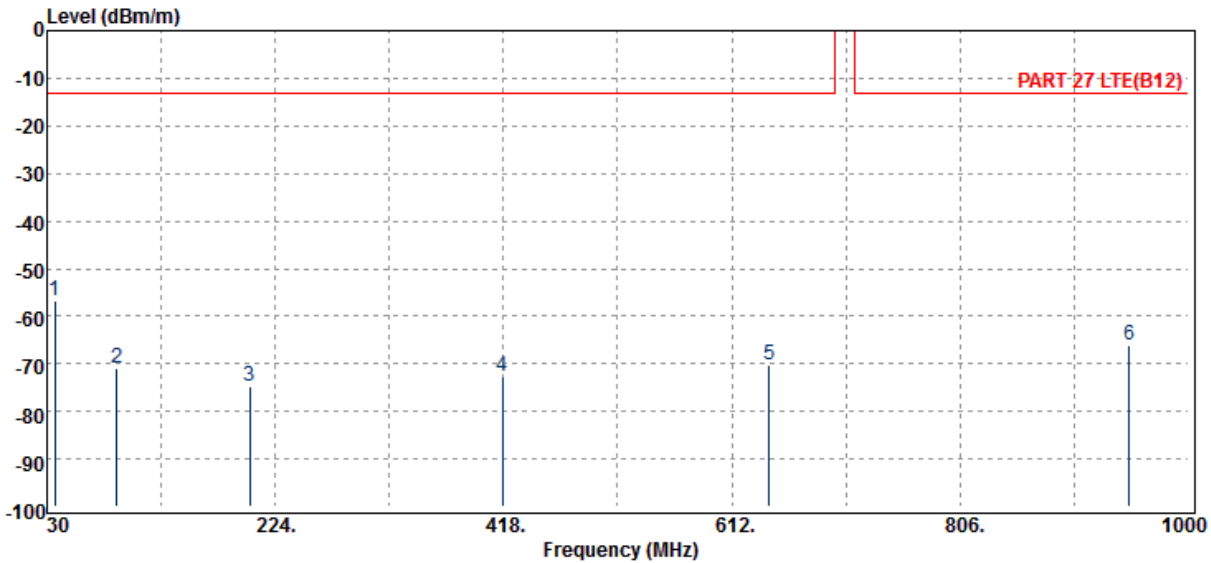
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ARFCN	:CH 23095 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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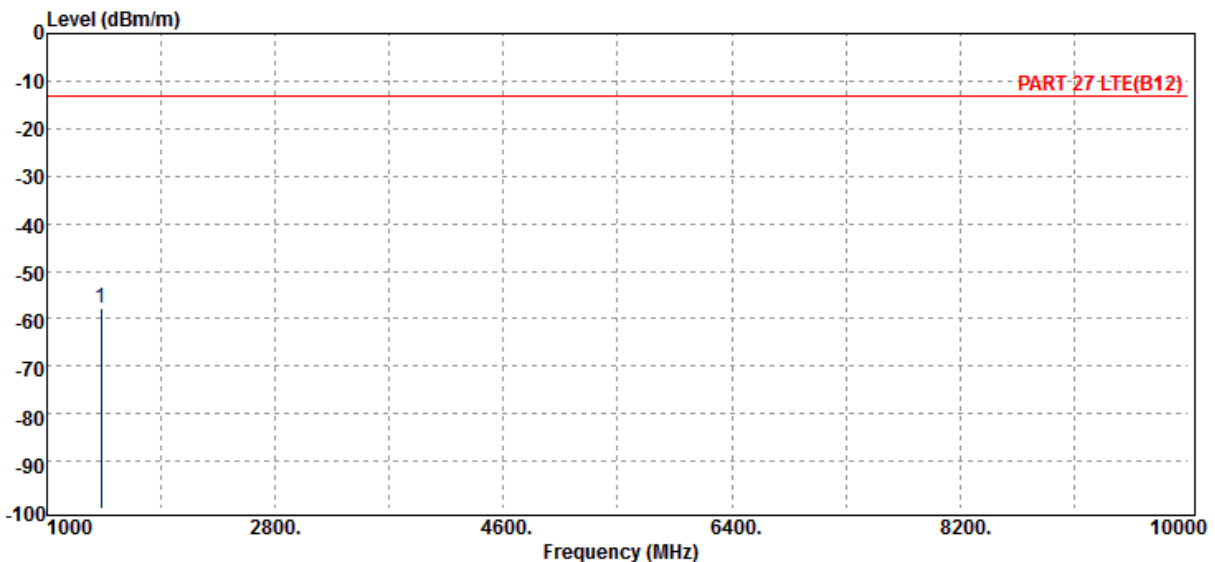
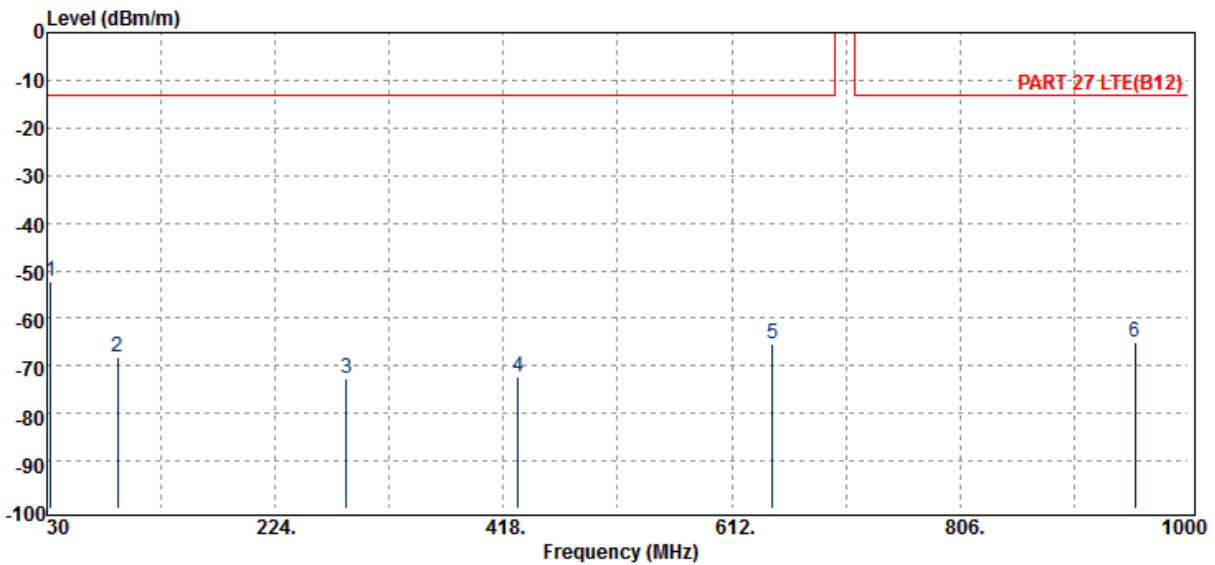
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ARFCN	:CH 23155 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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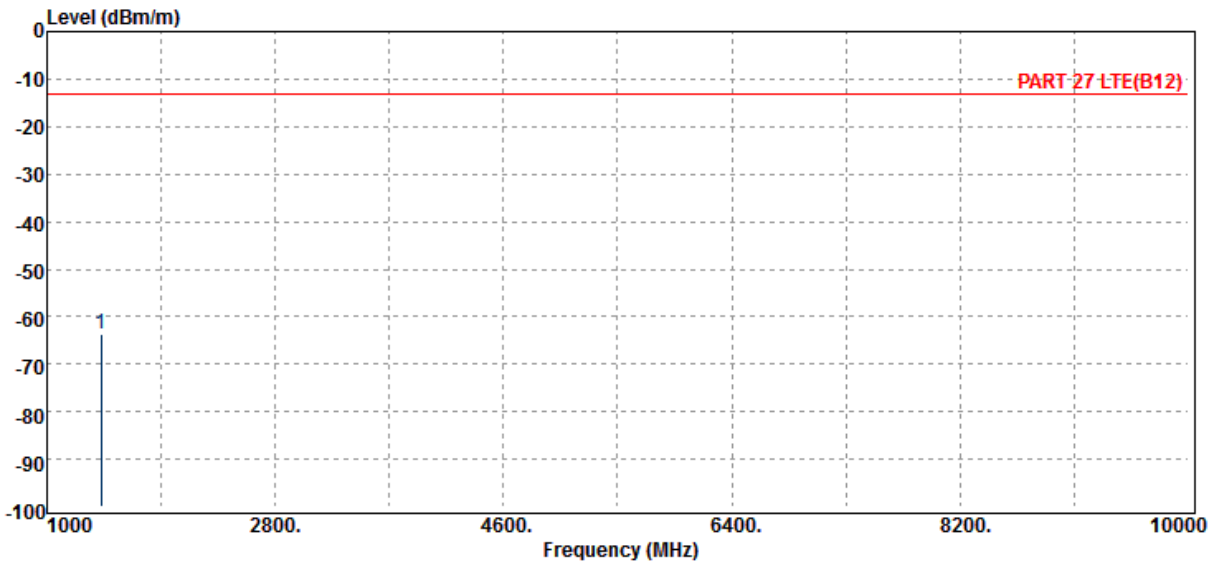
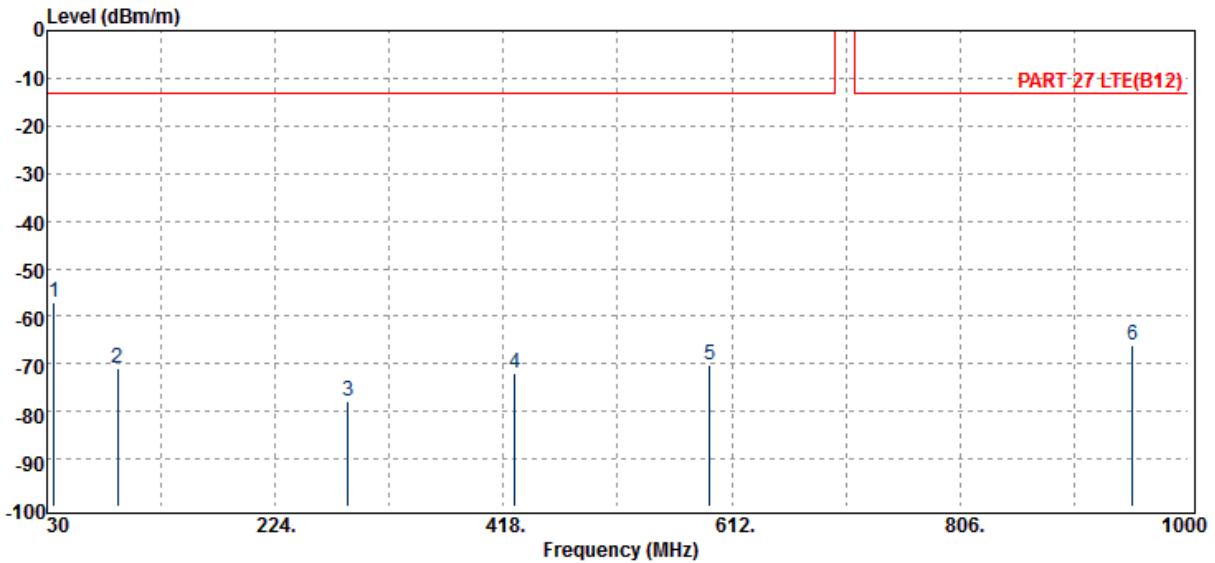
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ARFCN	:CH 23155 16QAM BW 5 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B12	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



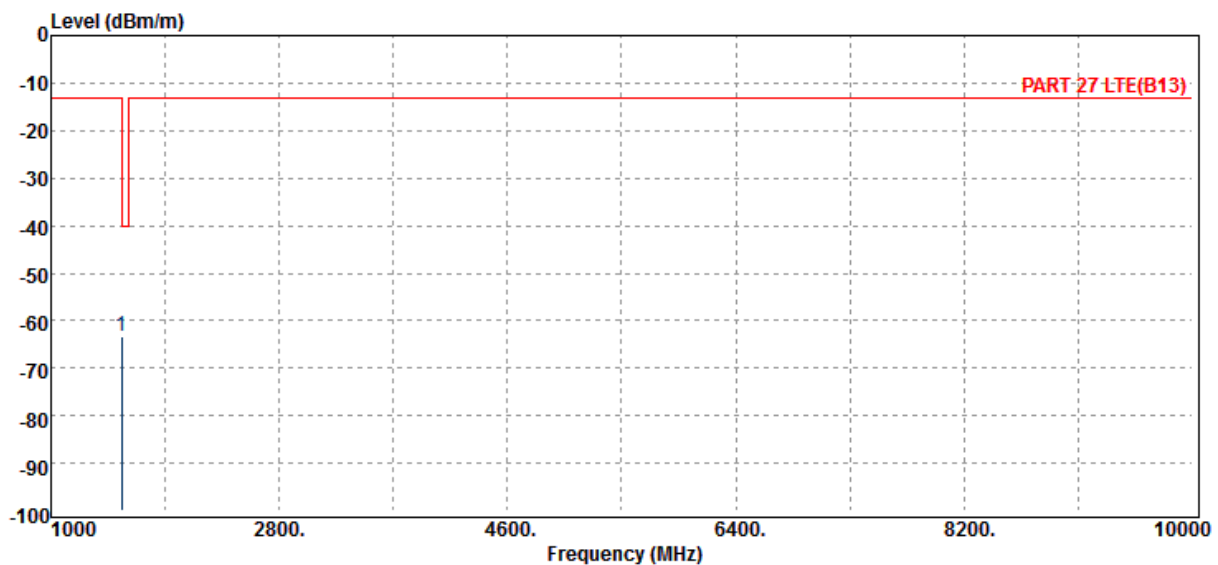
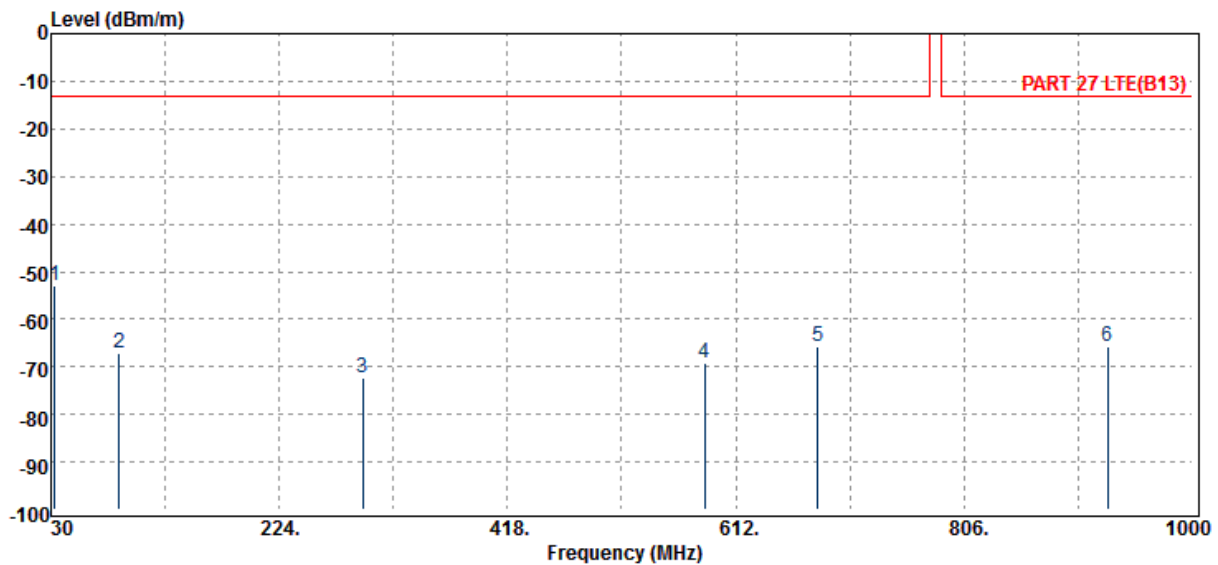
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(The Worst Case)**

ARFCN	:CH 23205 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

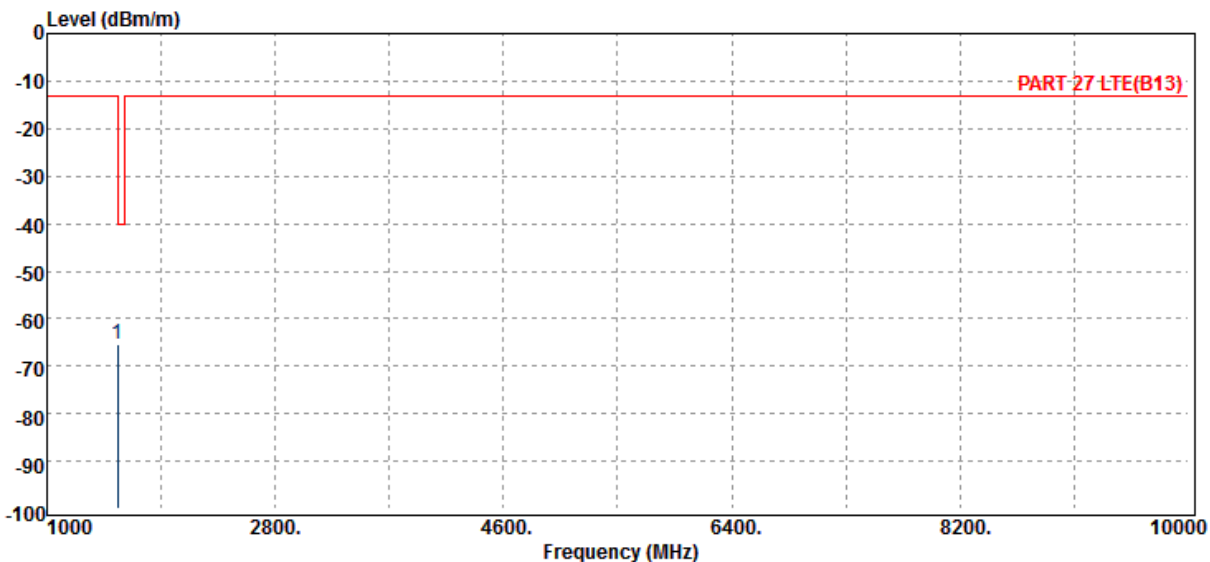
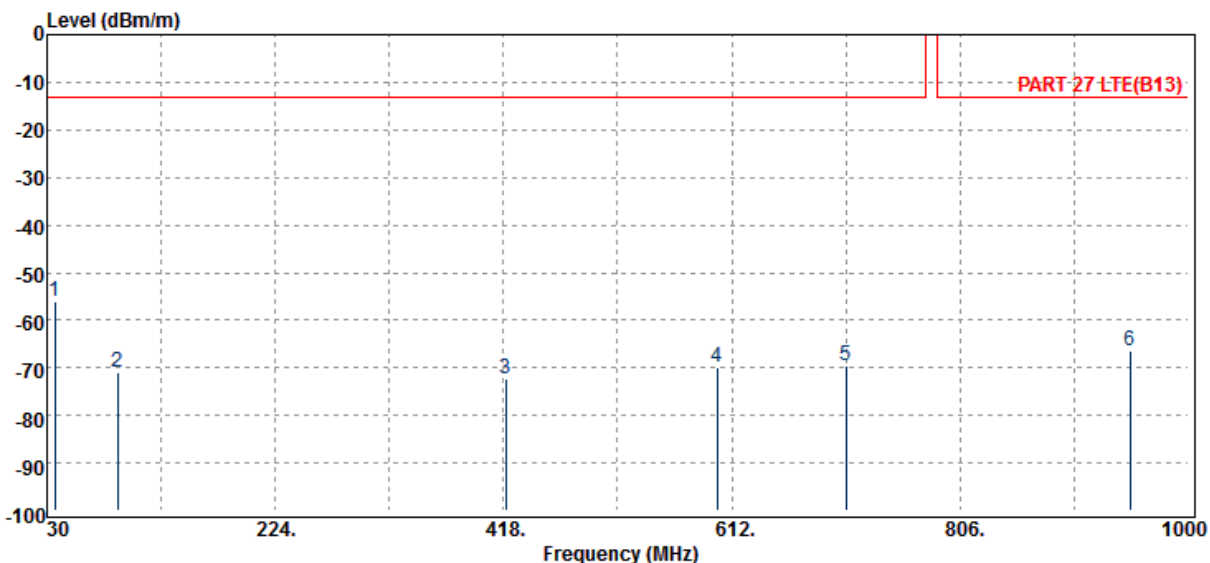


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ARFCN	:CH 23205 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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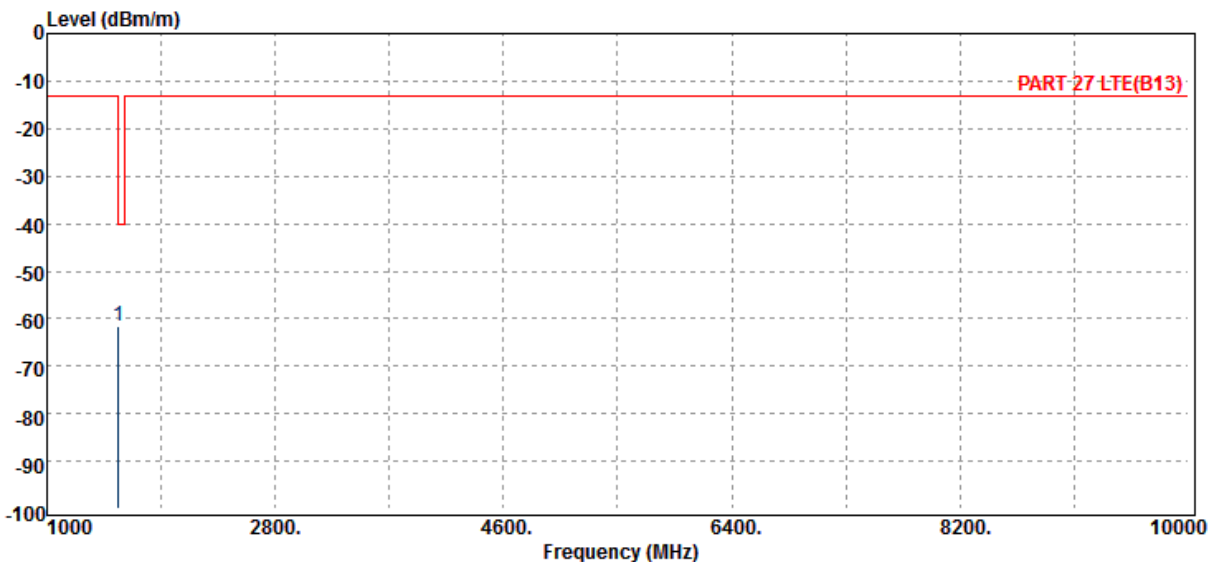
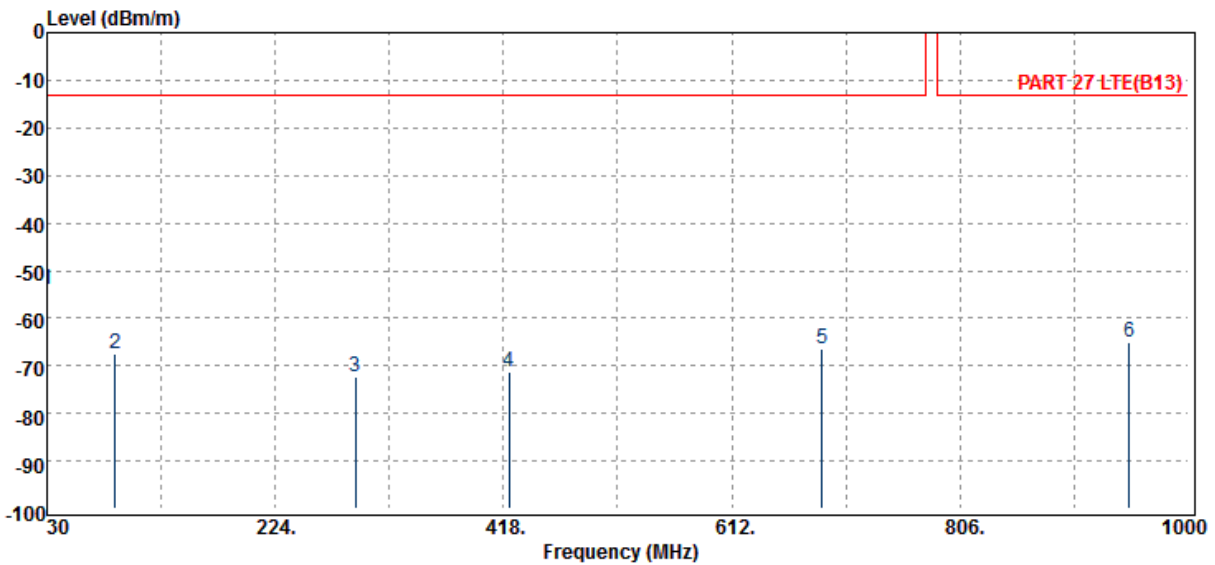
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ARFCN	:CH 23230 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:782 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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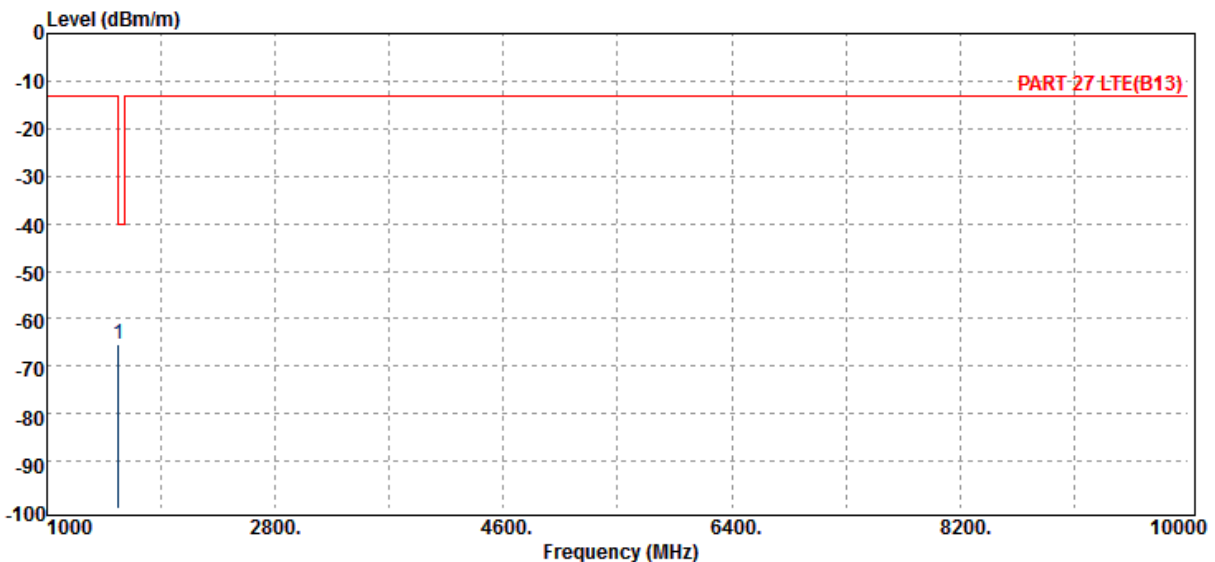
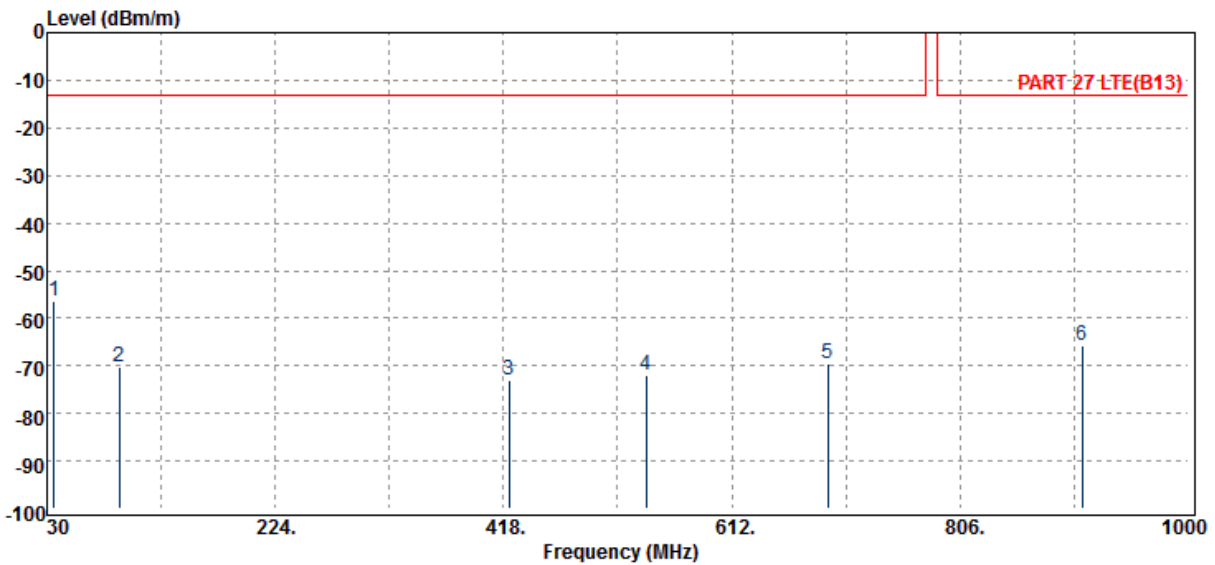
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ARFCN	:CH 23230 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:782 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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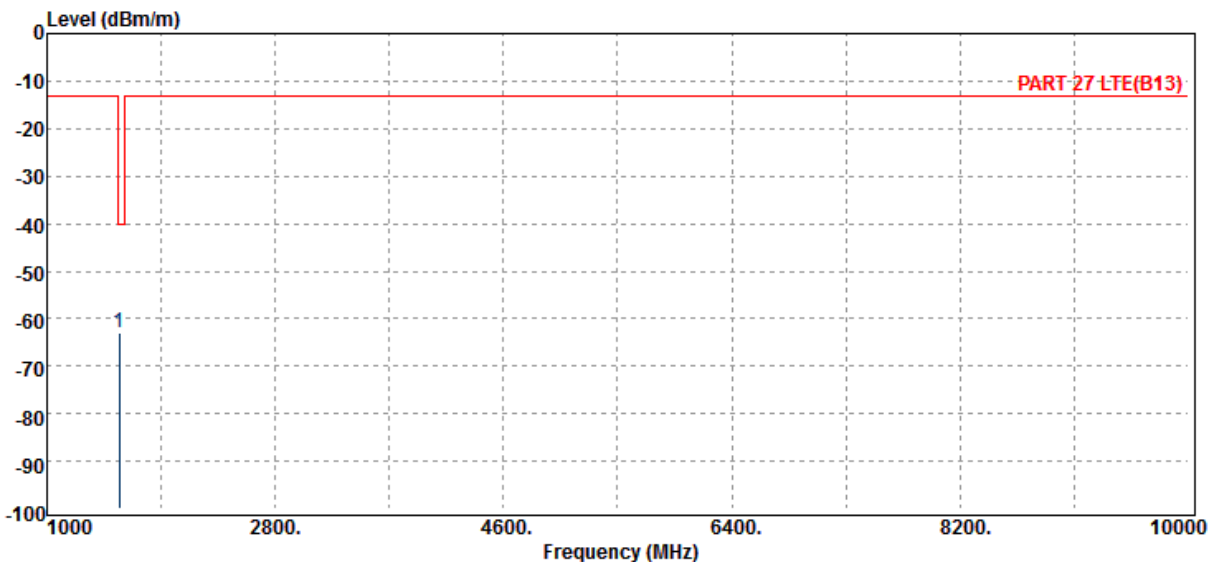
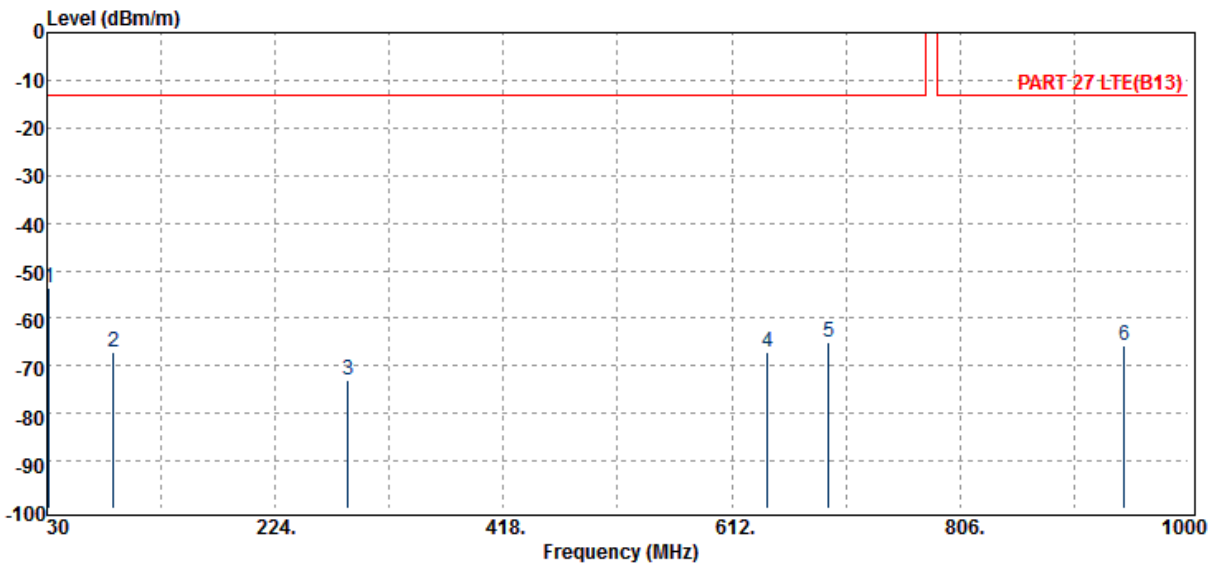
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ARFCN	:CH 23255 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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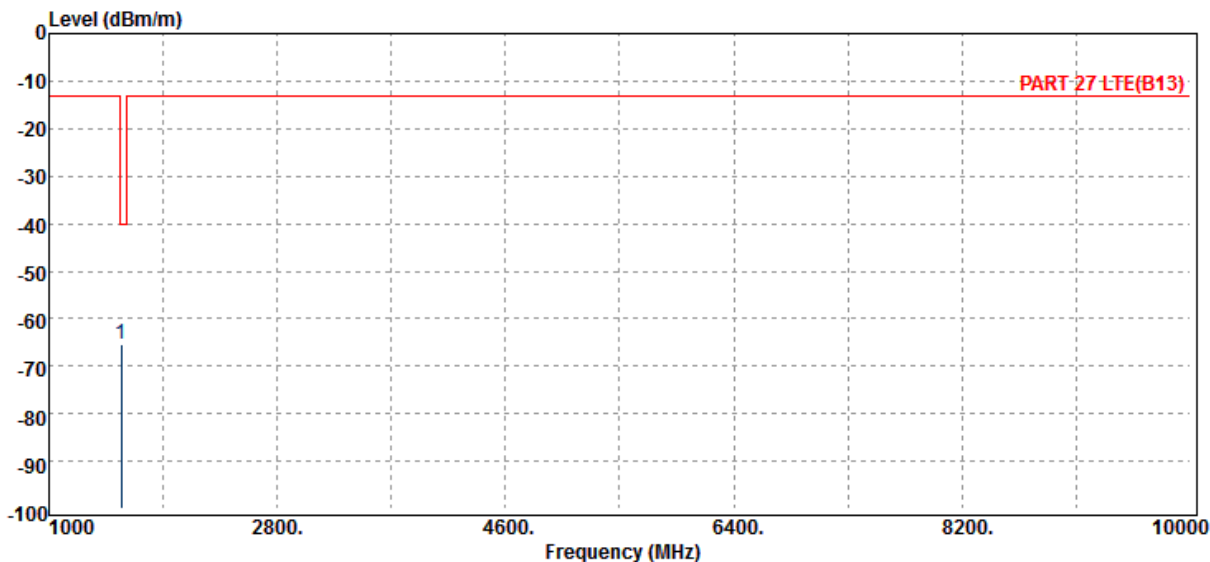
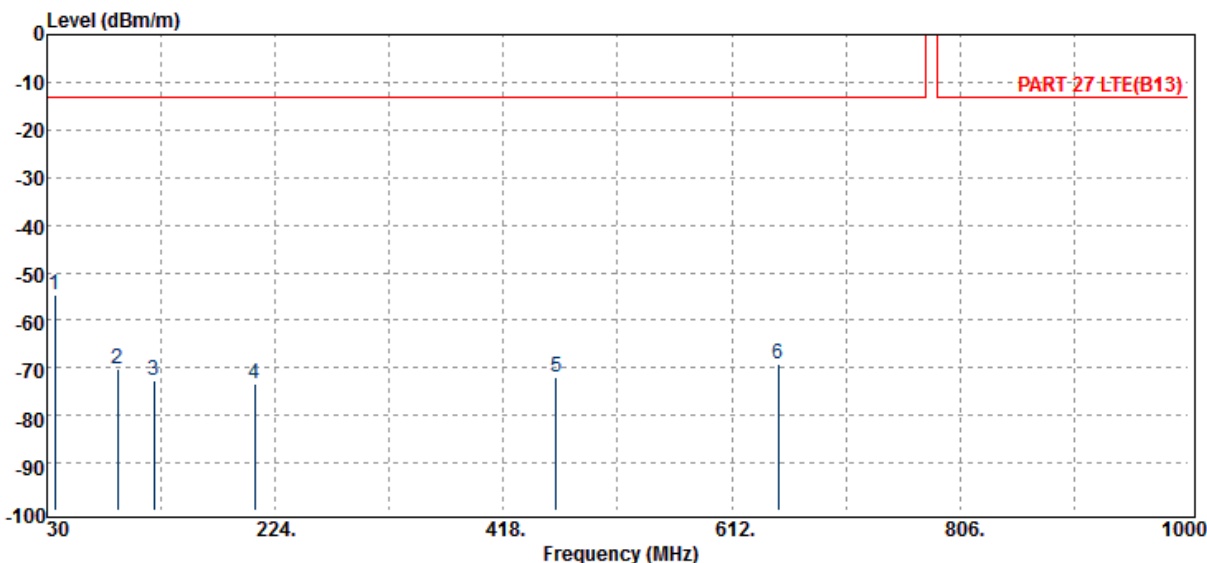
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ARFCN	:CH 23255 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



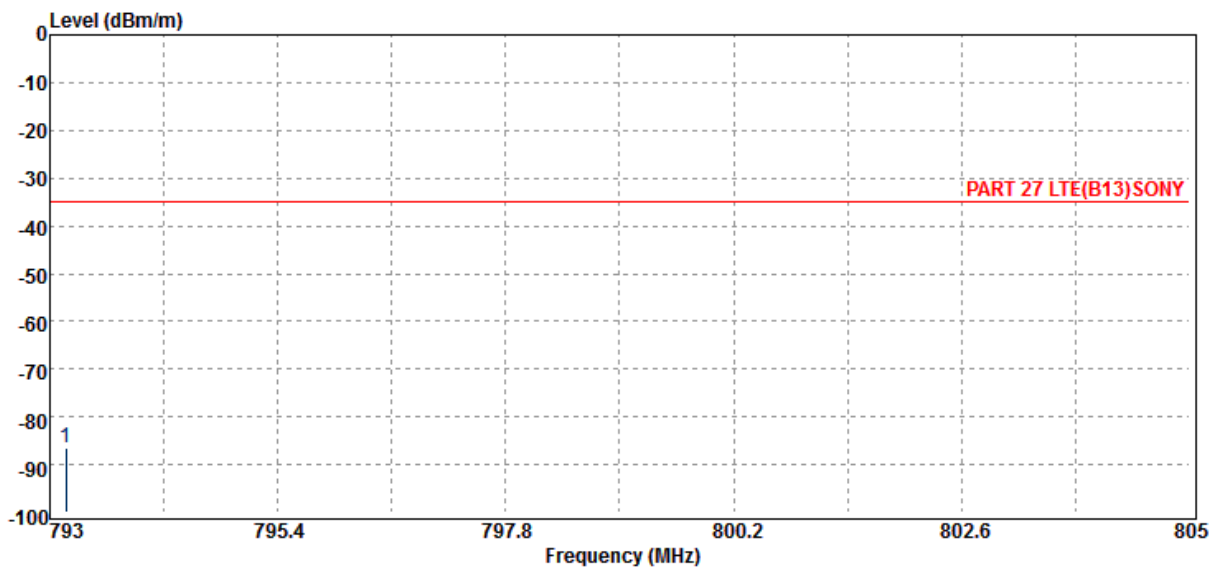
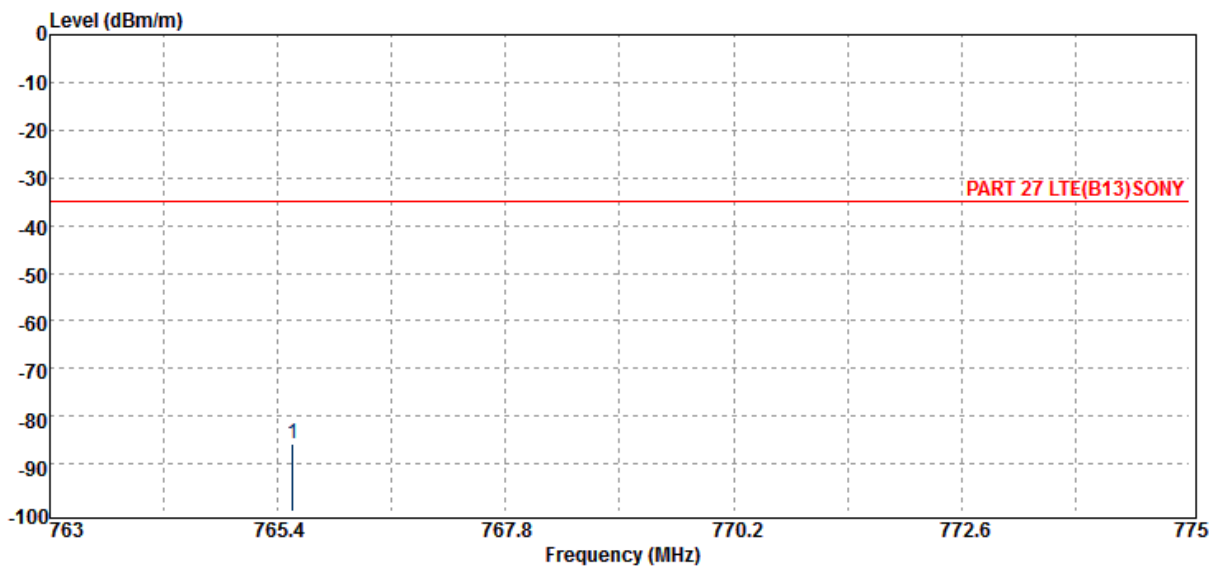
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13**  
**(For FCC§27.53(c) (4))**

ARFCN	:CH 23205 16QAM BW 5	Test Date	:2014-11-19
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



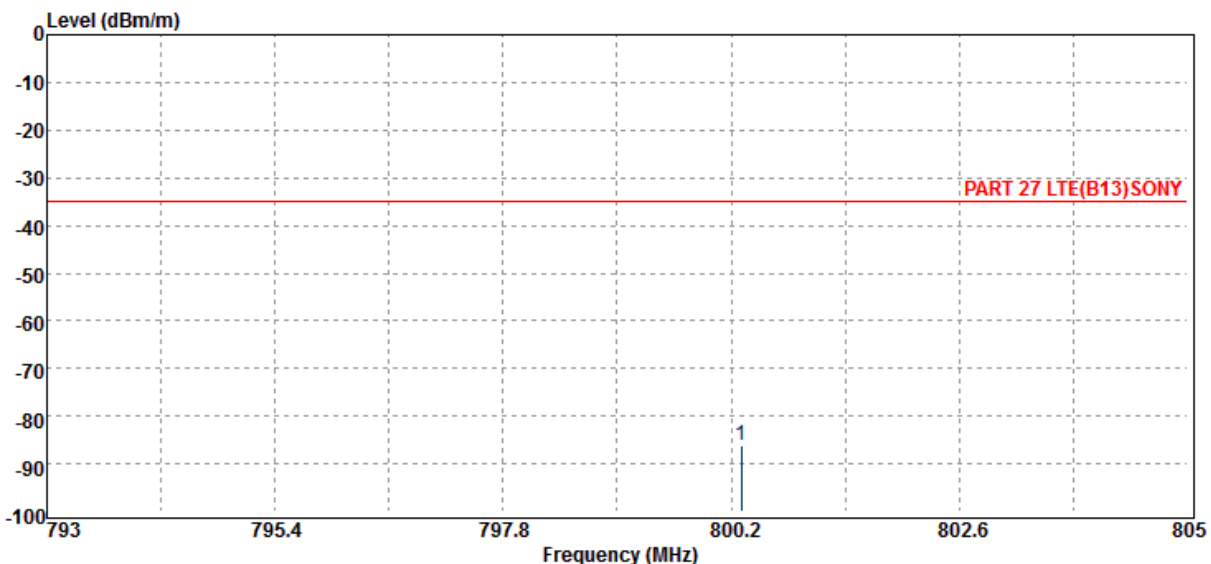
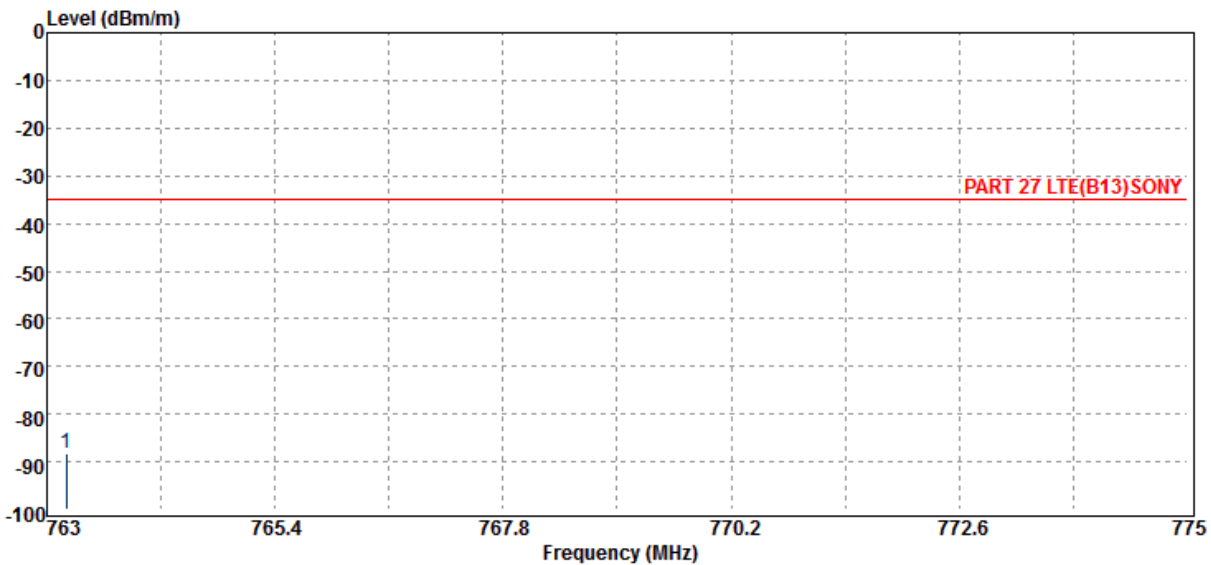
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ARFCN	:CH 23205 16QAM BW 5	Test Date	:2014-11-19
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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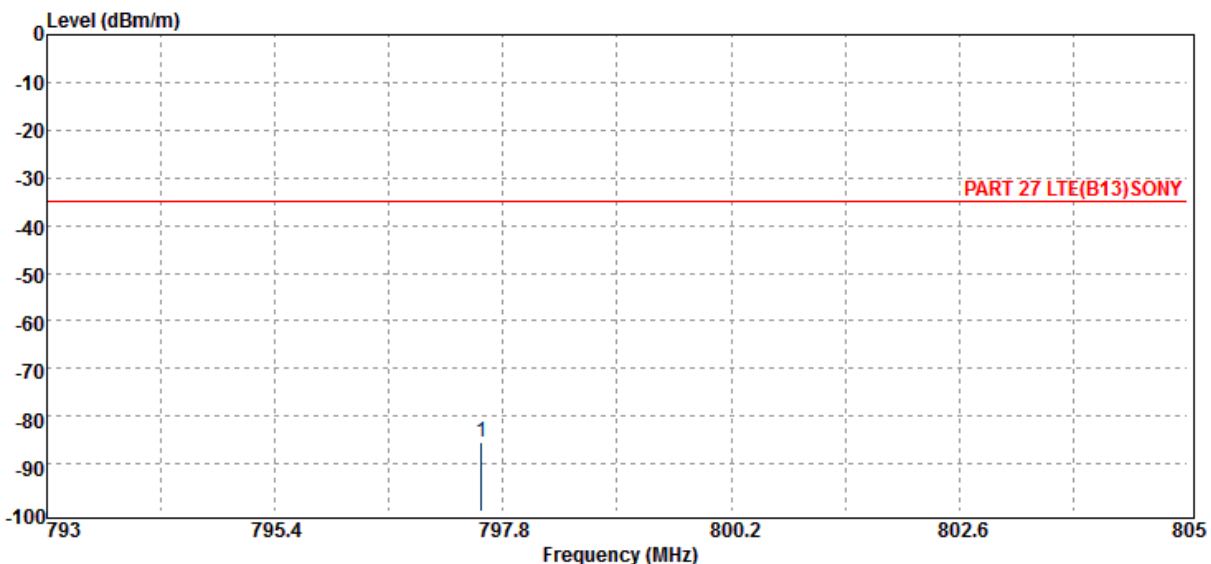
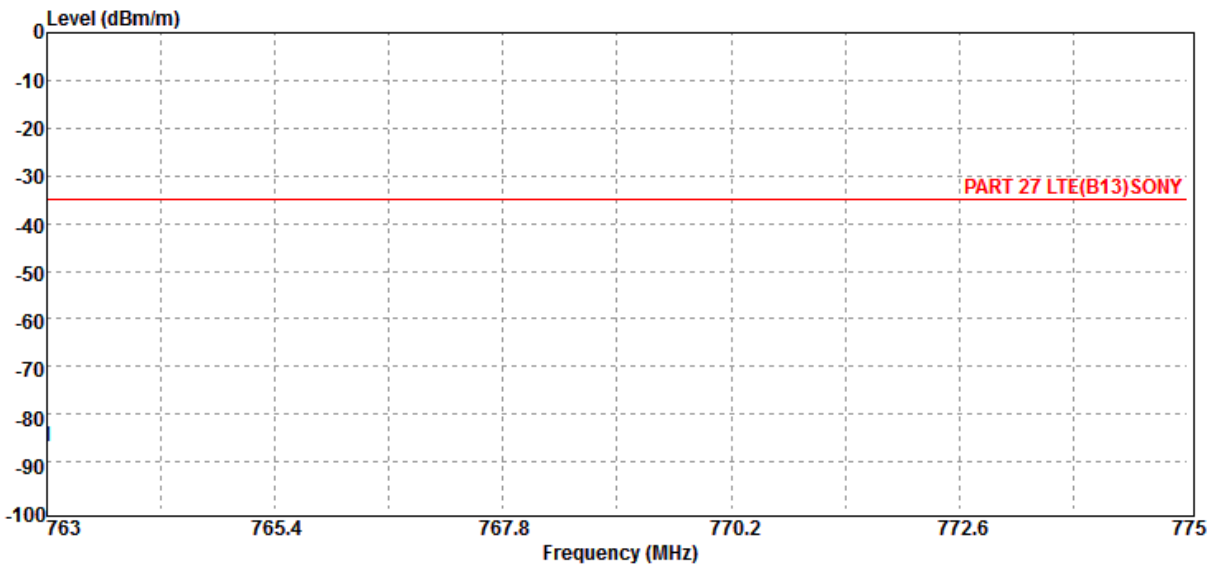
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ARFCN	:CH 23230 16QAM BW 5	Test Date	:2014-11-19
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:782 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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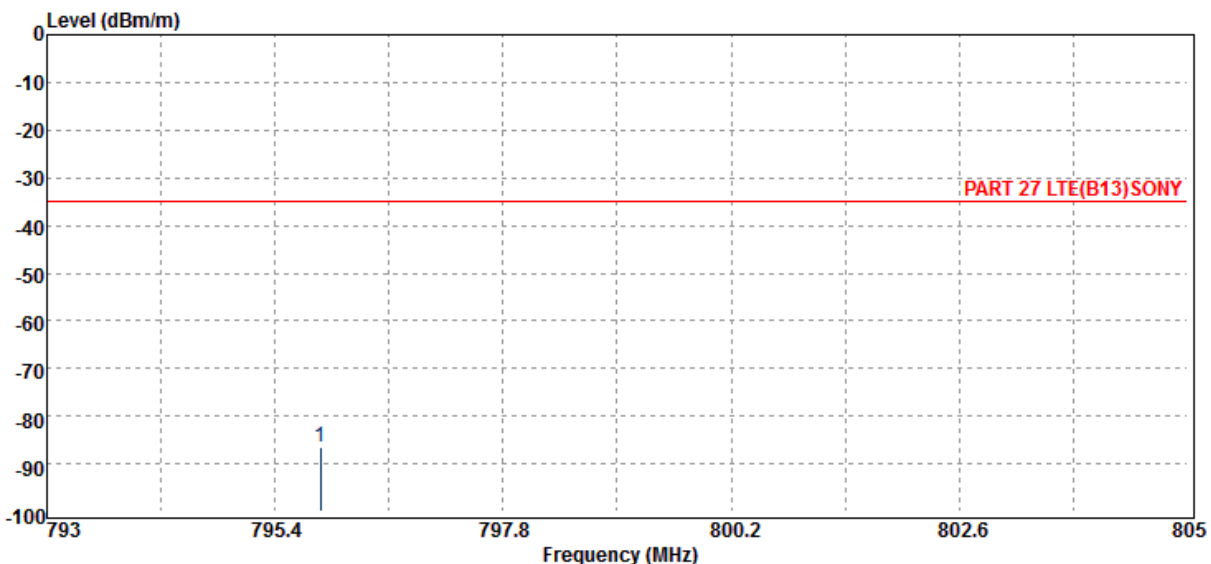
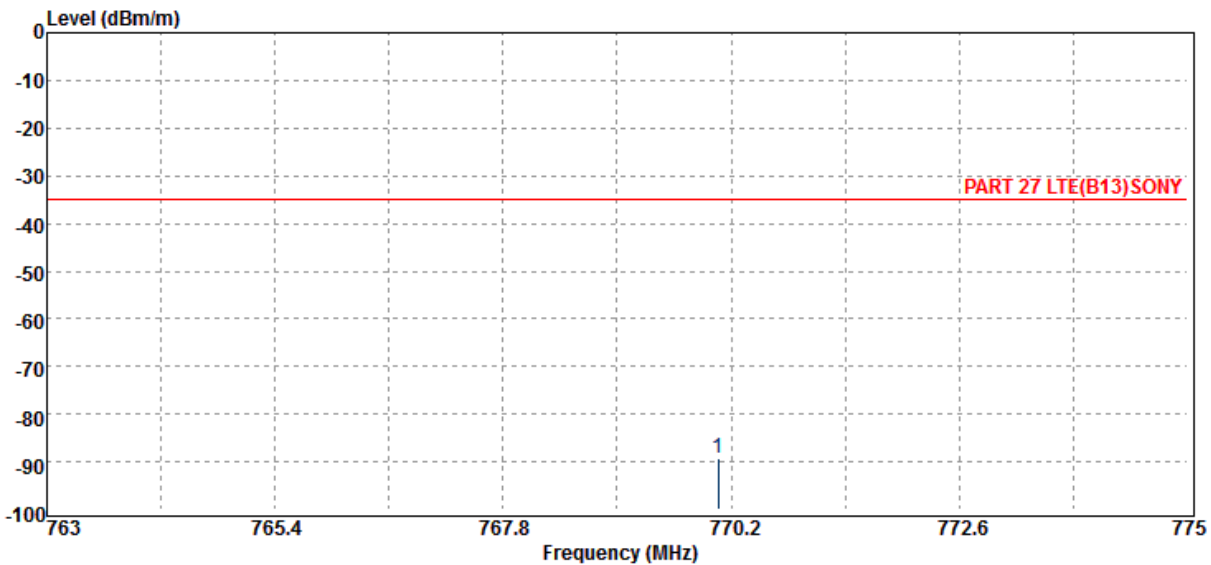
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ARFCN	:CH 23230 16QAM BW 5	Test Date	:2014-11-19
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:782 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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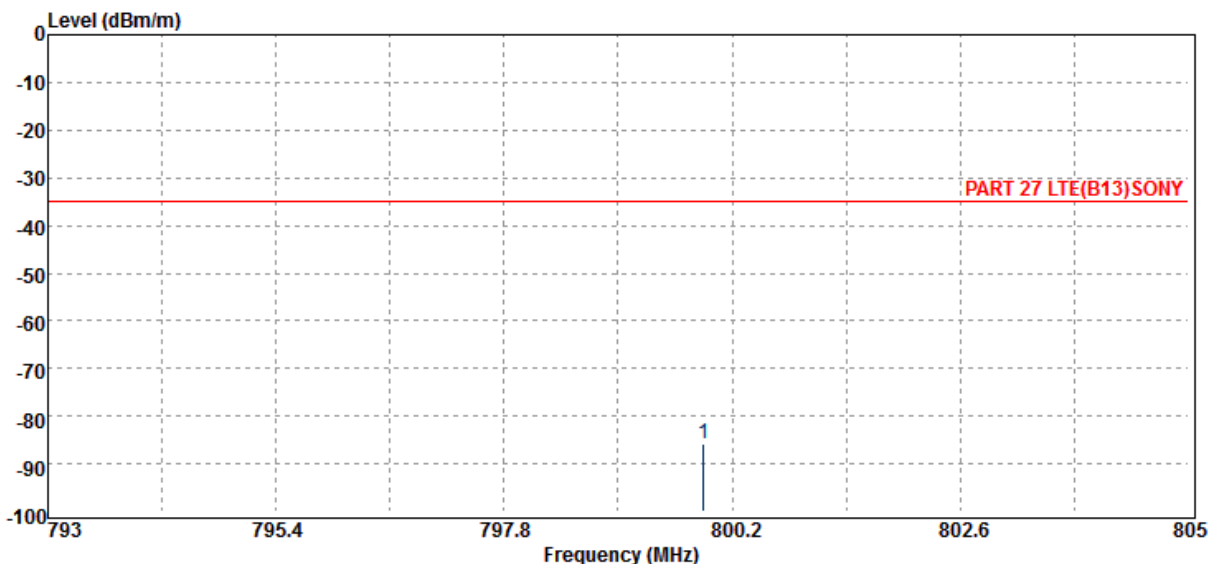
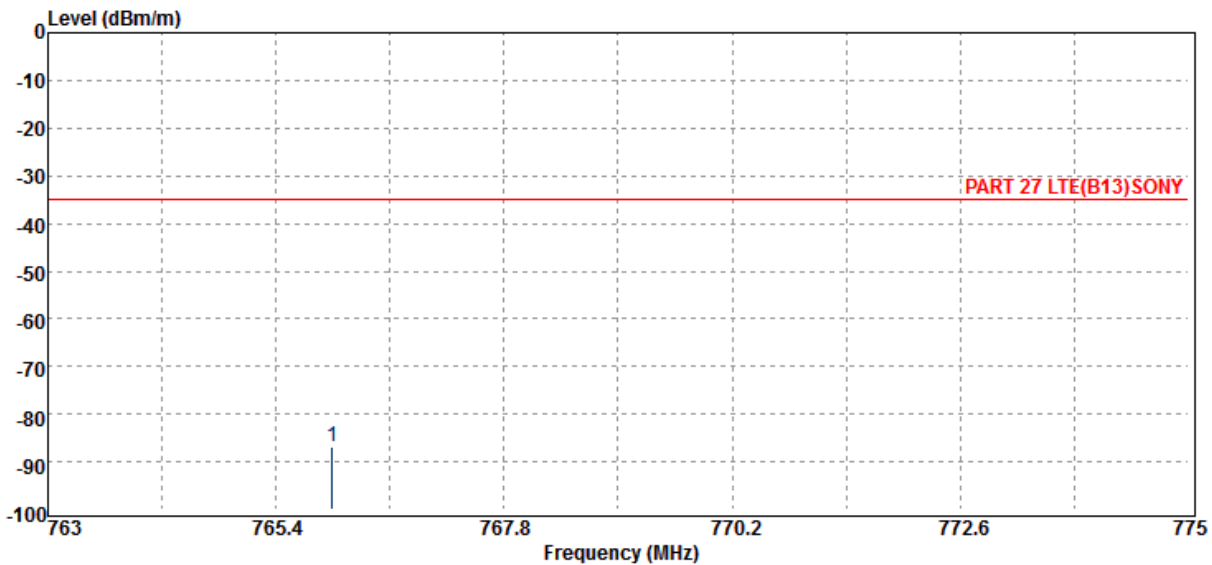
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ARFCN	:CH 23255 16QAM BW 5	Test Date	:2014-11-19
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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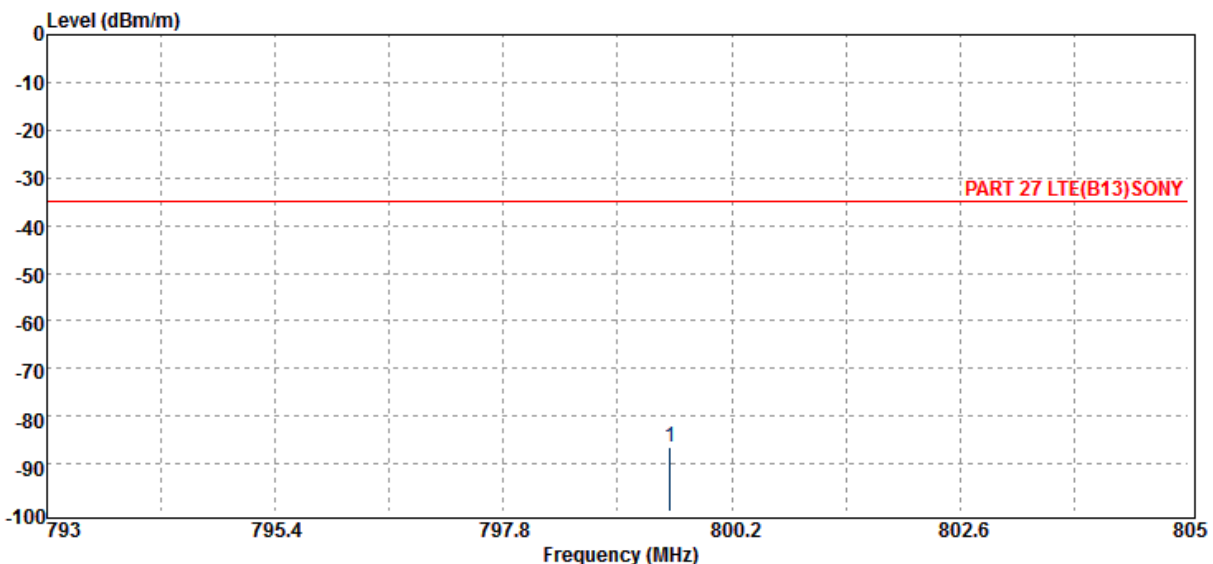
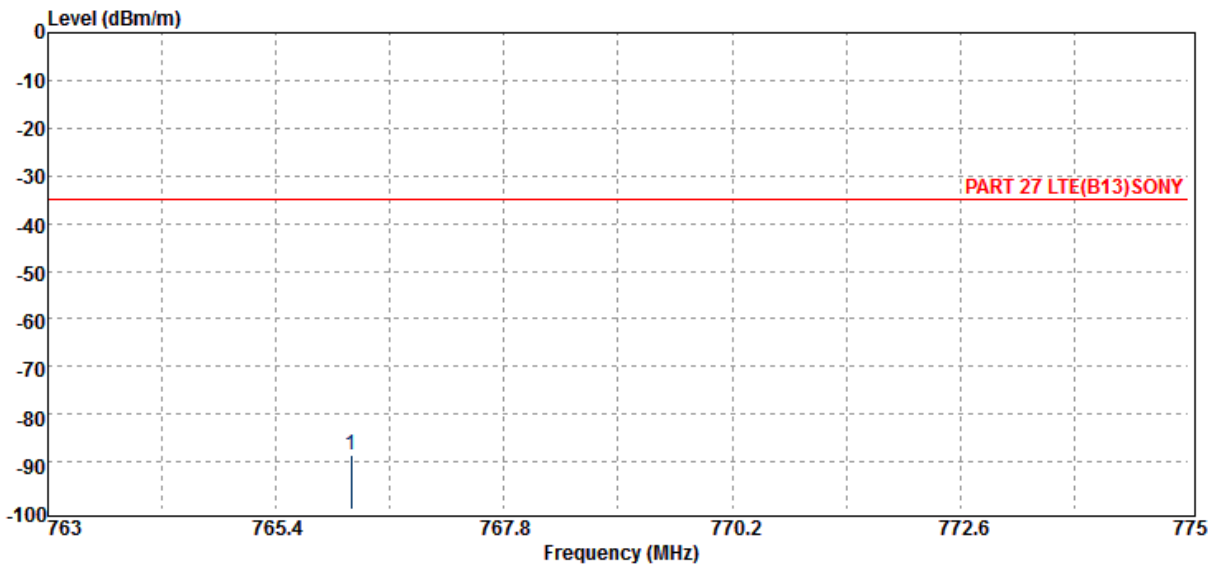
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ARFCN	:CH 23255 16QAM BW 5	Test Date	:2014-11-19
	RB 1 24		
Operation Band	:LTE B13	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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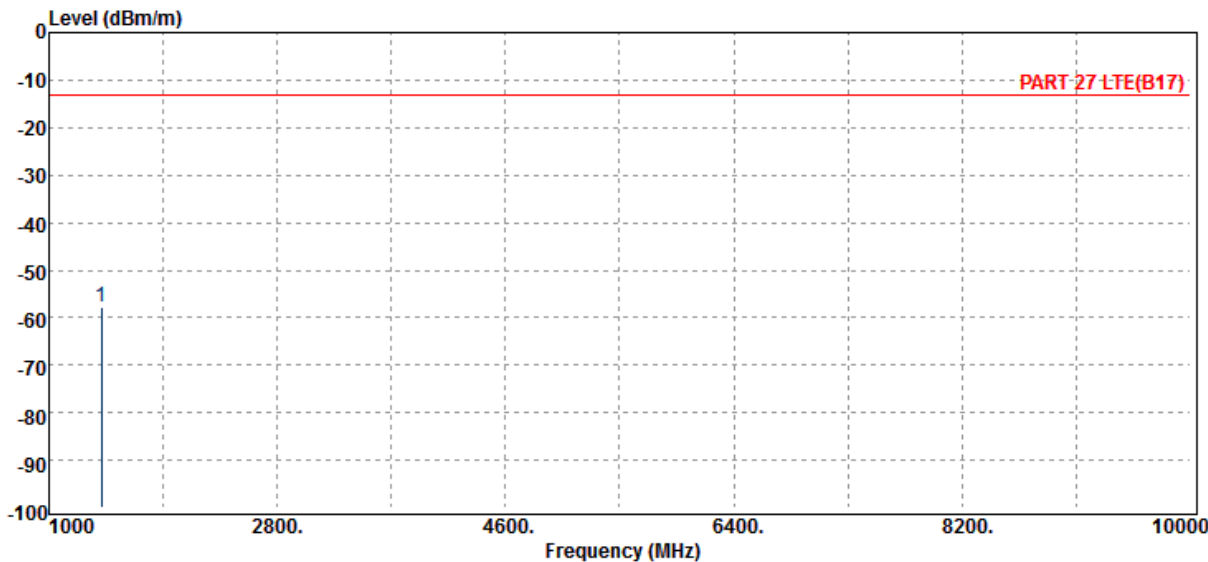
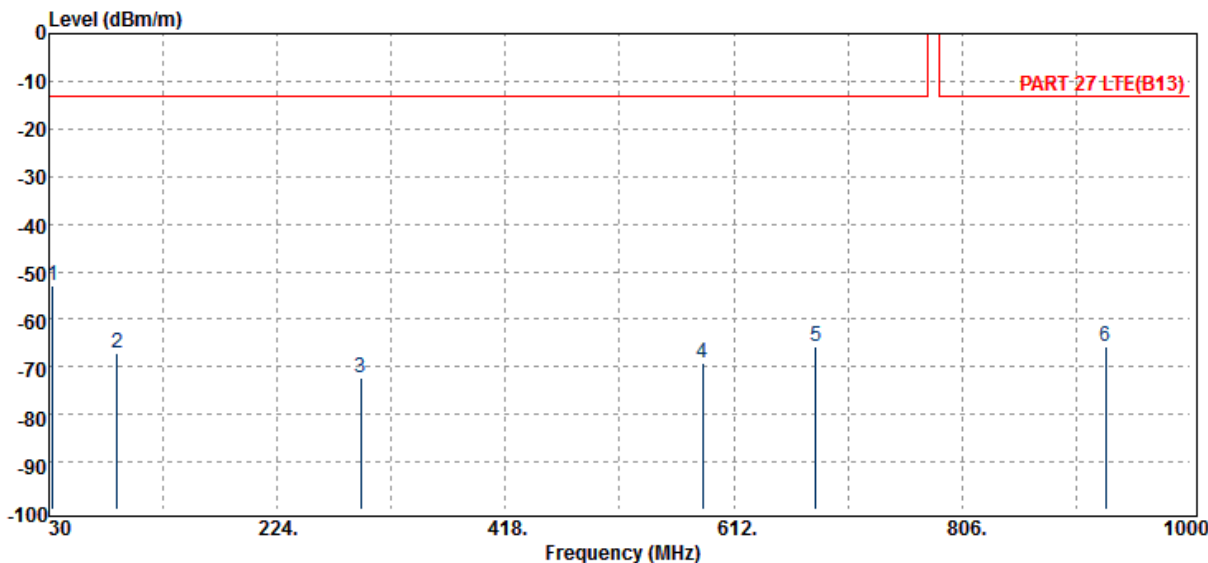
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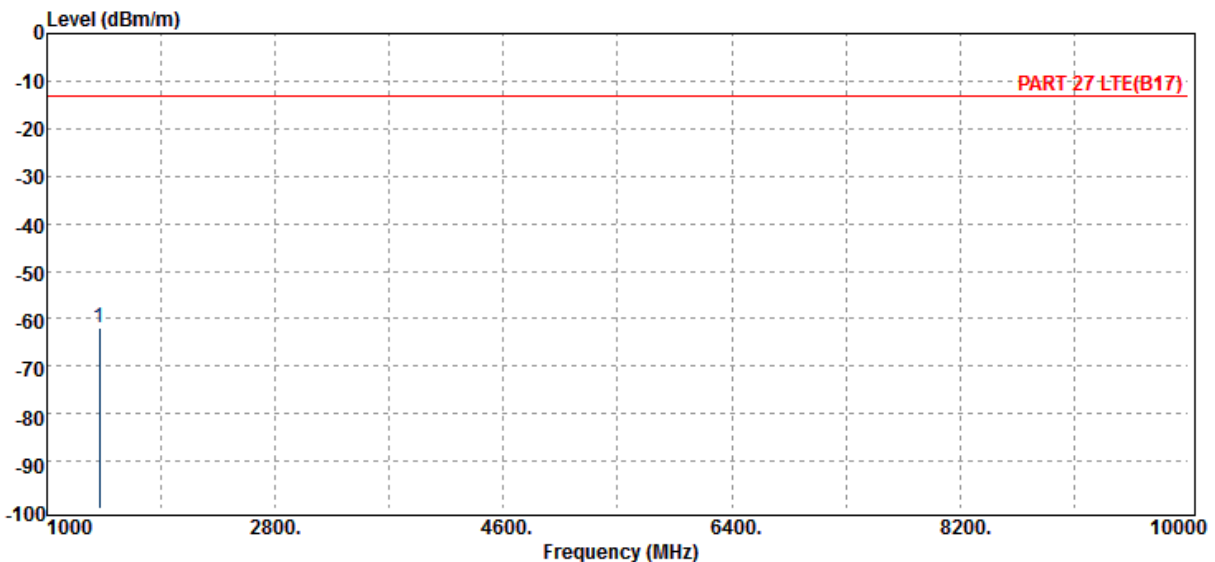
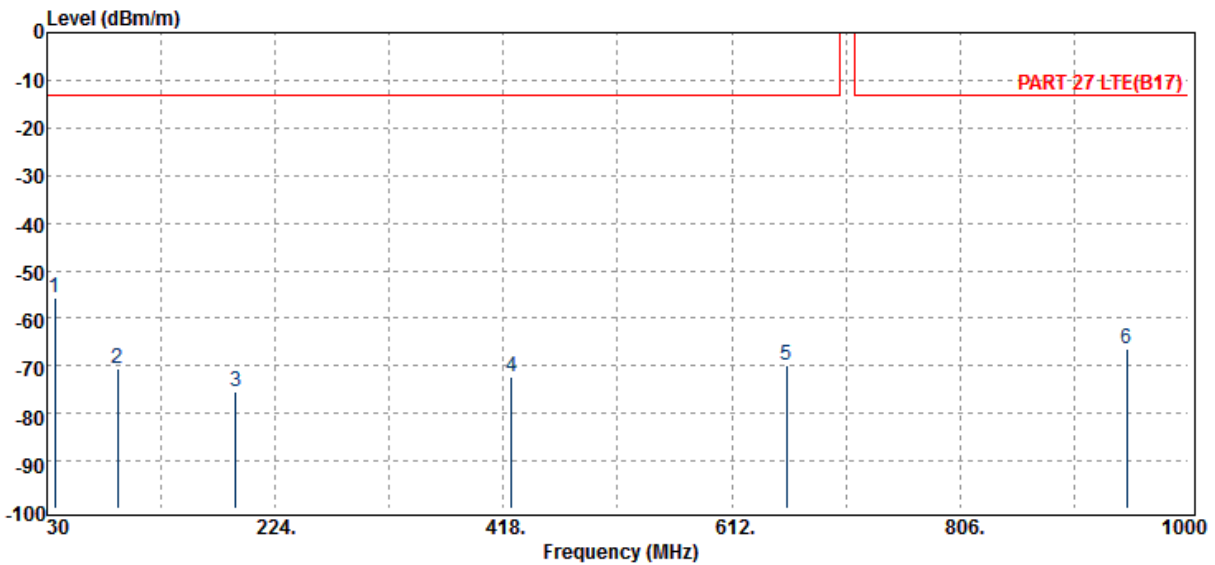
**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17(The Worst Case)**

ARFCN	:CH 23755 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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ARFCN	:CH 23755 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

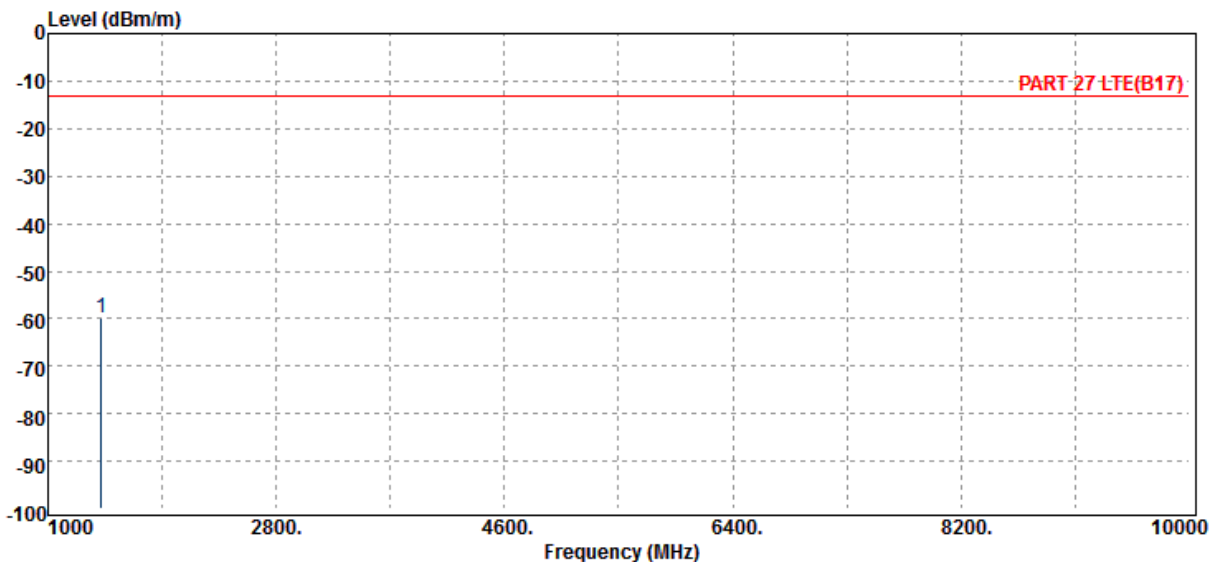
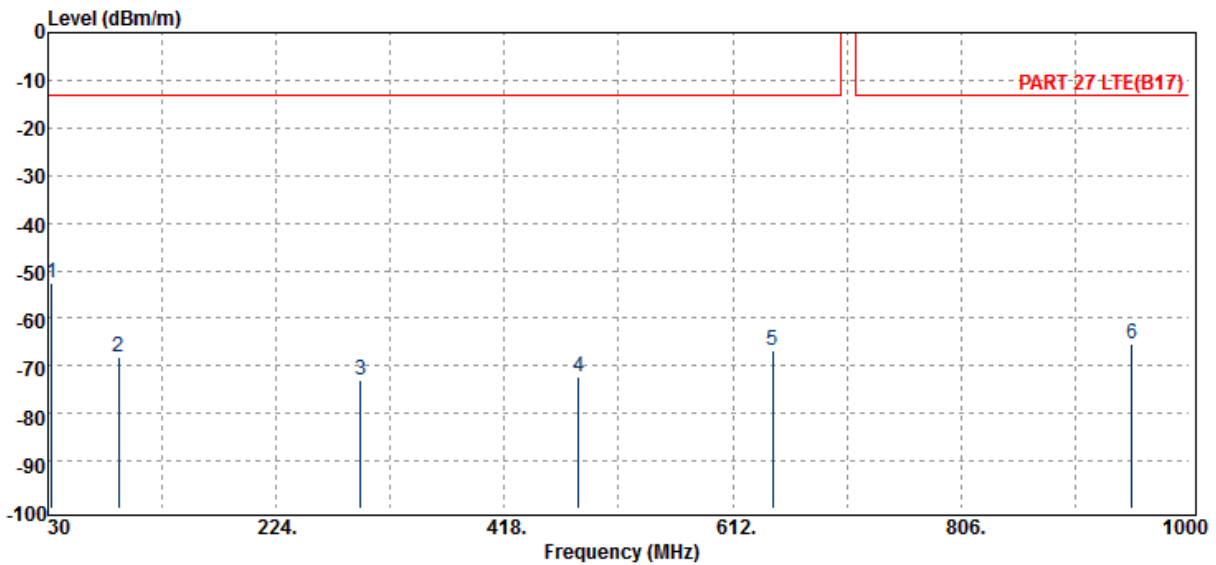


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ARFCN	:CH 23790 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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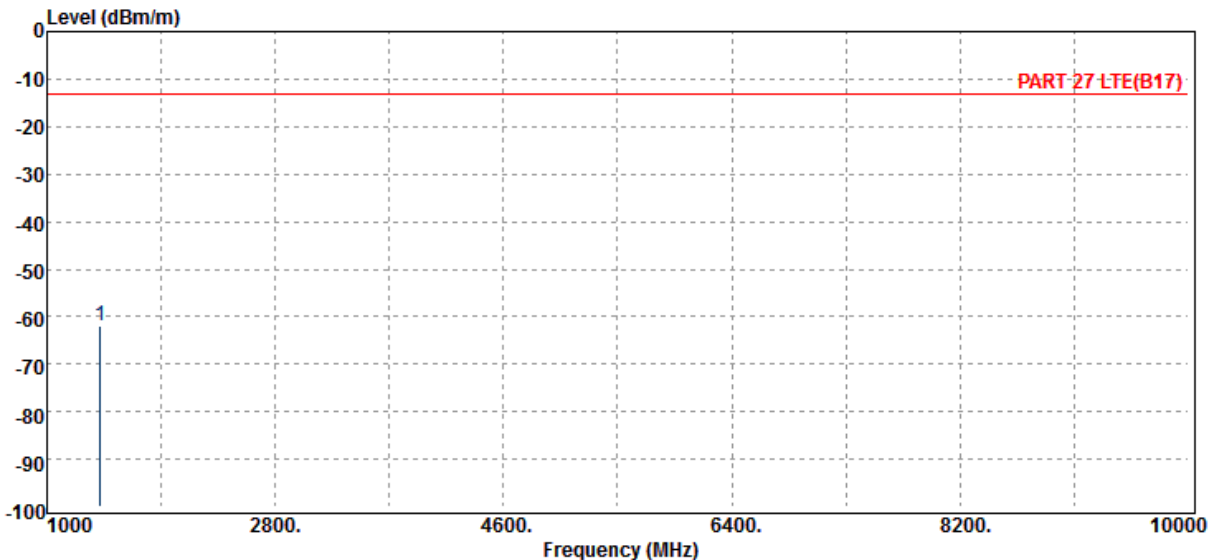
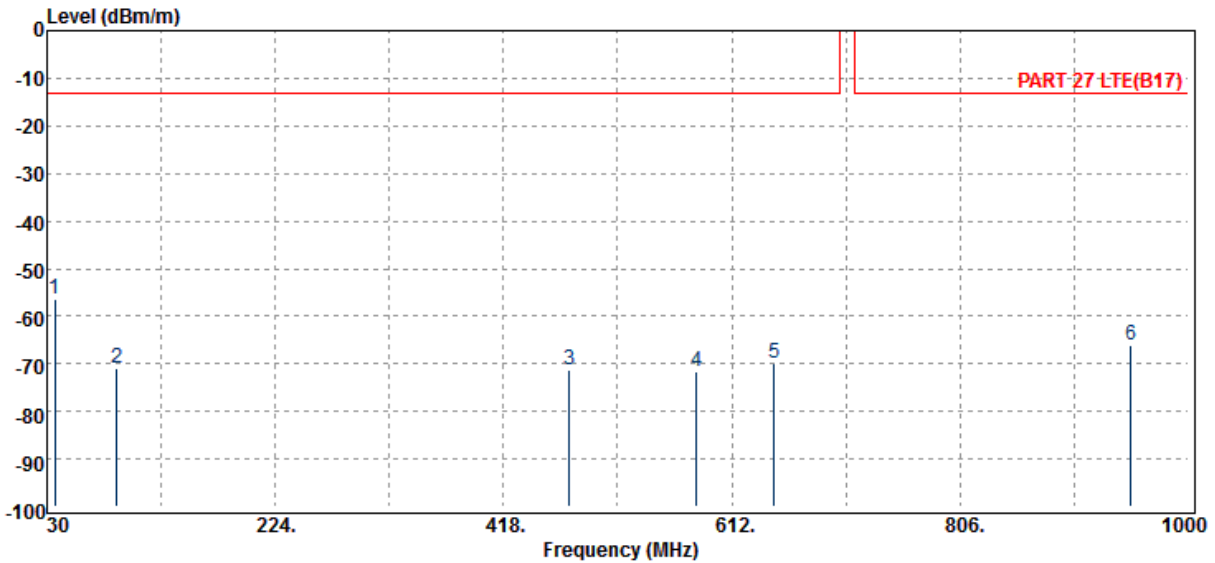
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ARFCN	:CH 23790 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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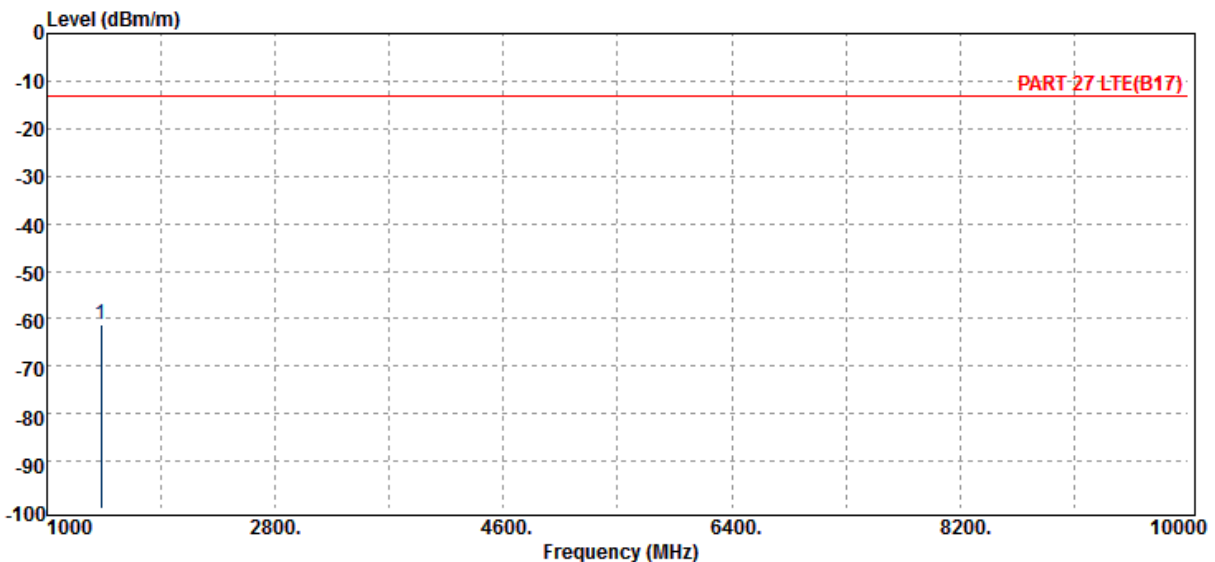
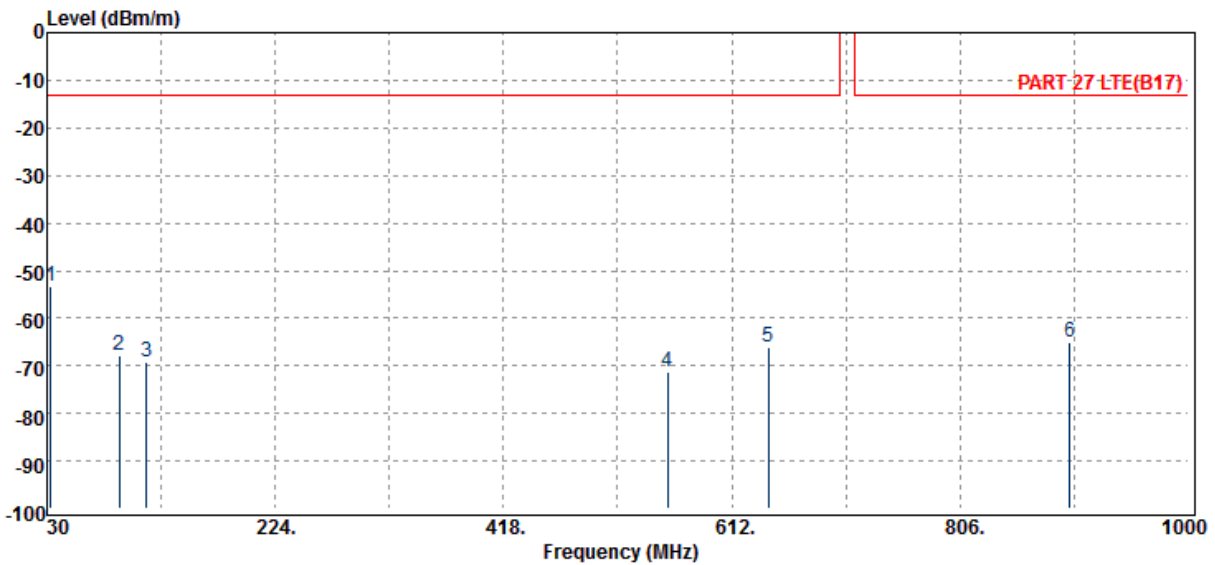
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ARFCN	:CH 23825 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

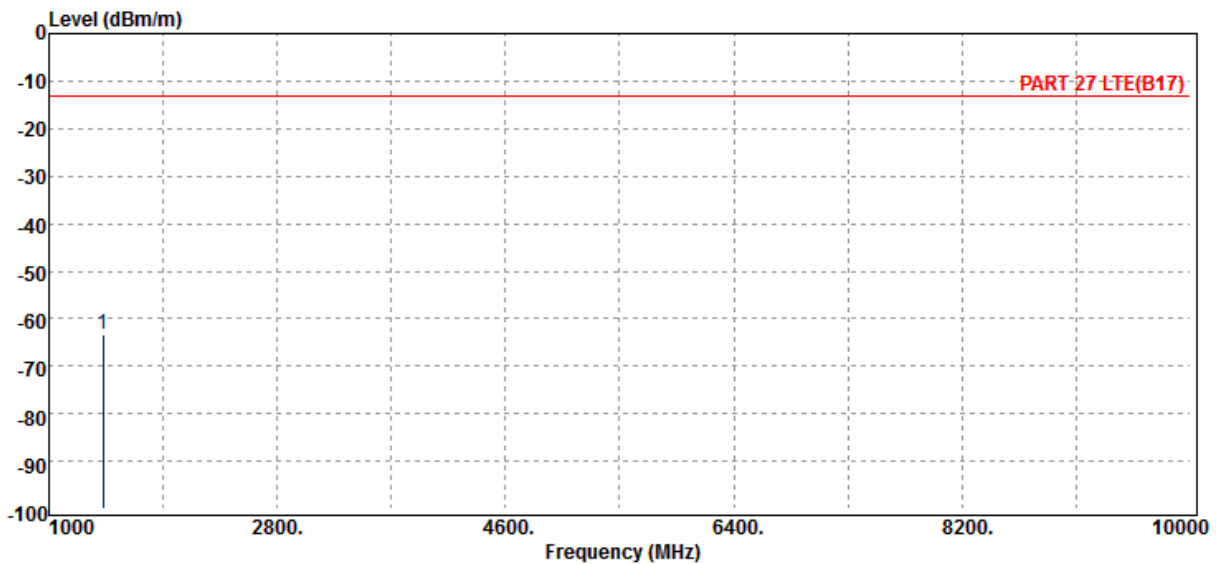
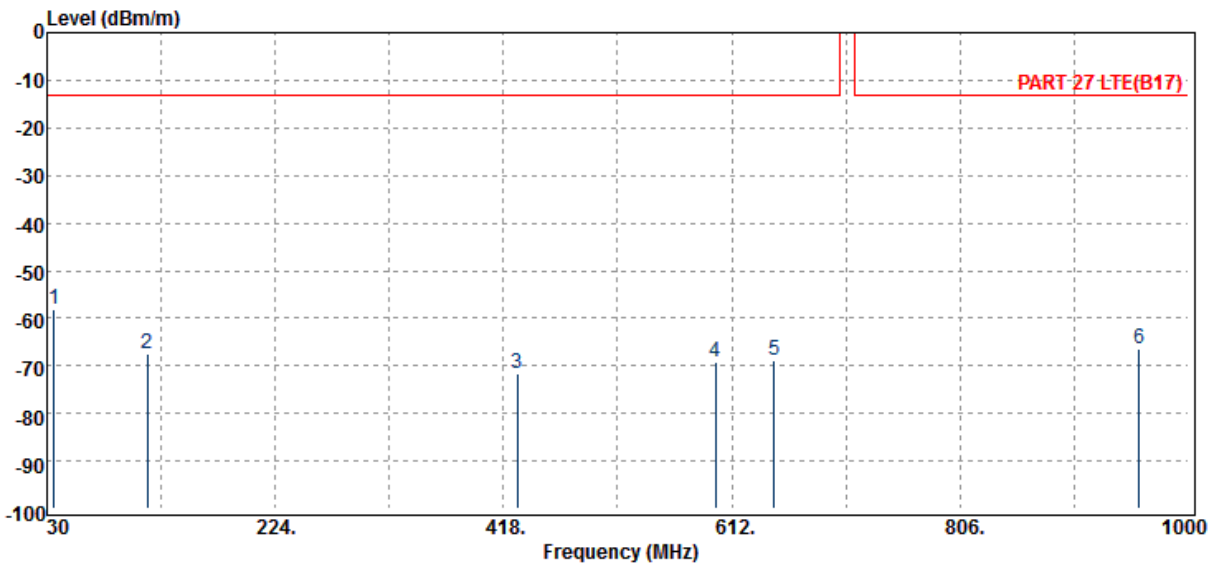


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ARFCN	:CH 23825 16QAM BW 5	Test Date	:2014-11-18
	RB 1 24		
Operation Band	:LTE B17	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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