

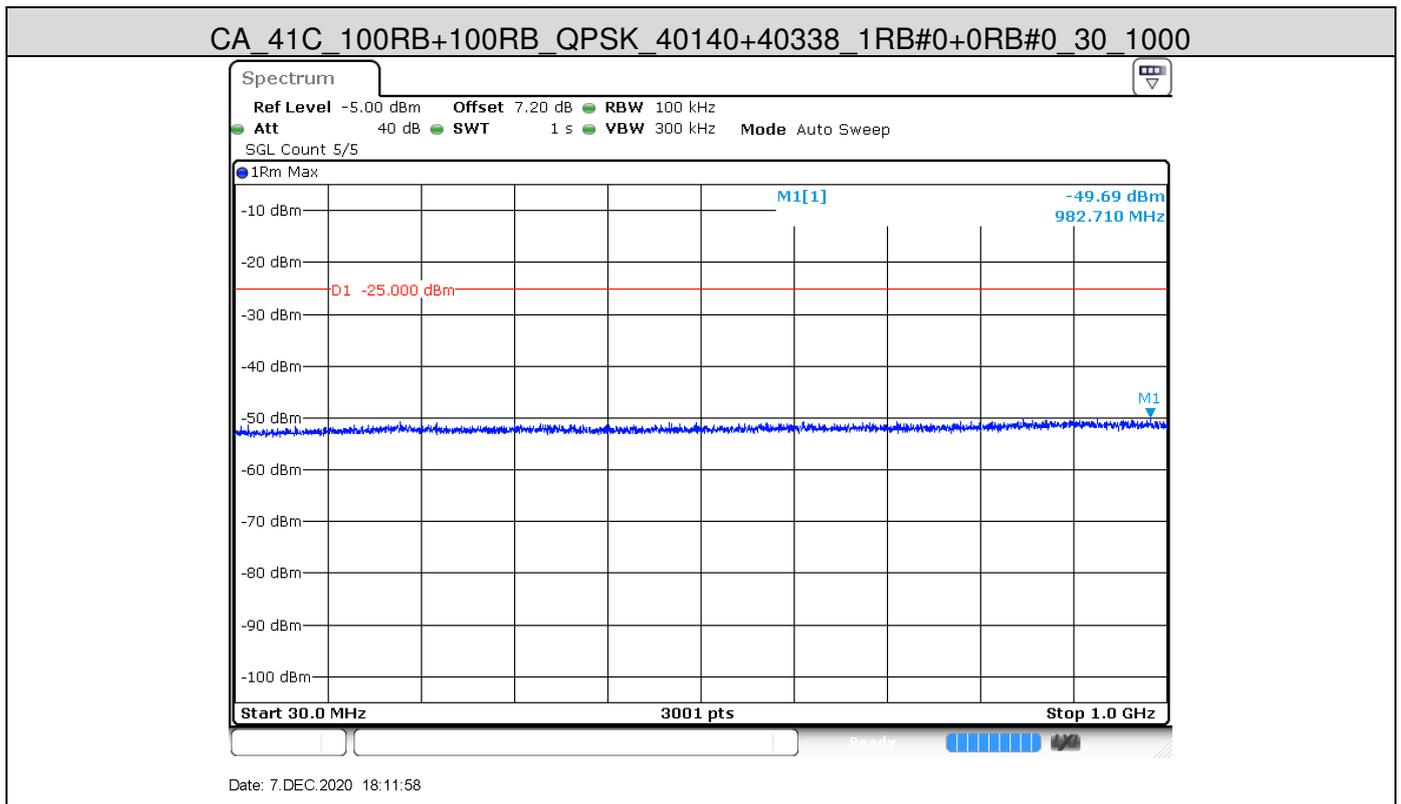
## 6 Spurious Emission at Antenna Terminal

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

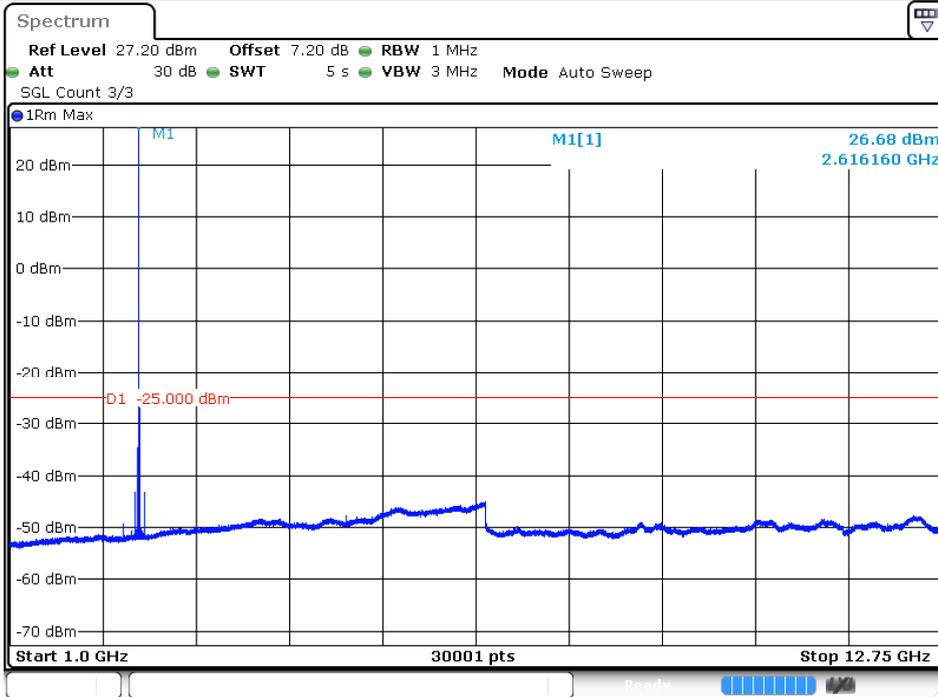
Part I - Test Plots

### 6.1 For LTE

#### 6.1.1 Test Band = LTE Band CA\_41C

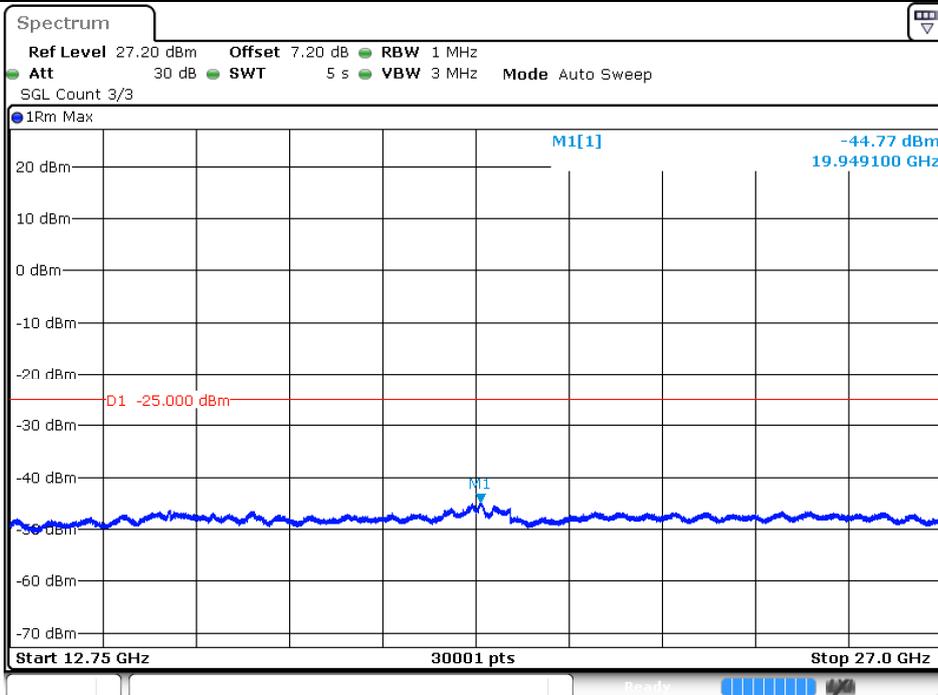


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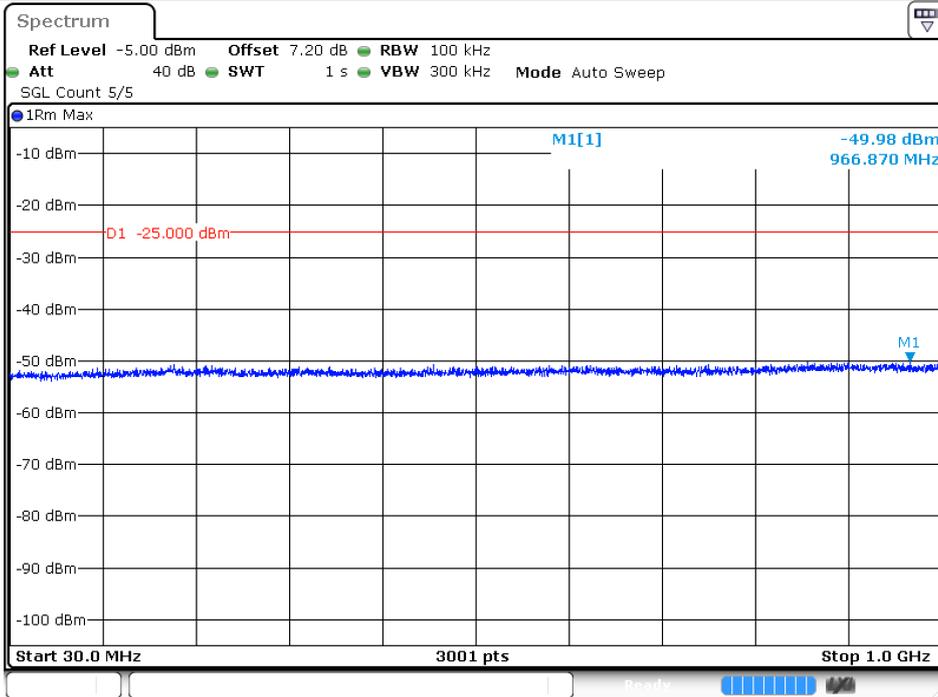
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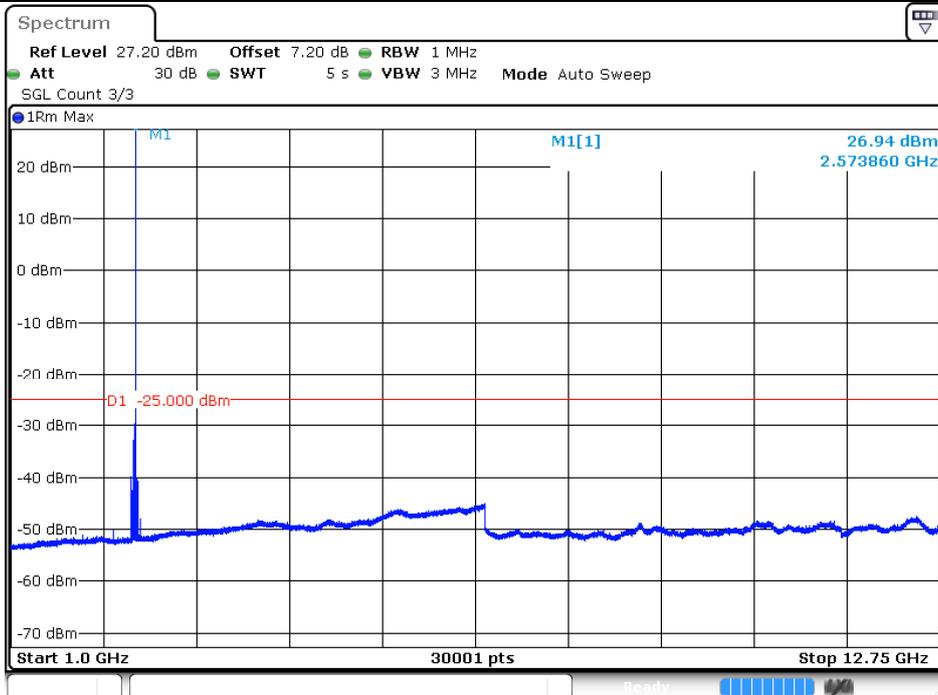


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Date: 7.DEC.2020 18:12:04

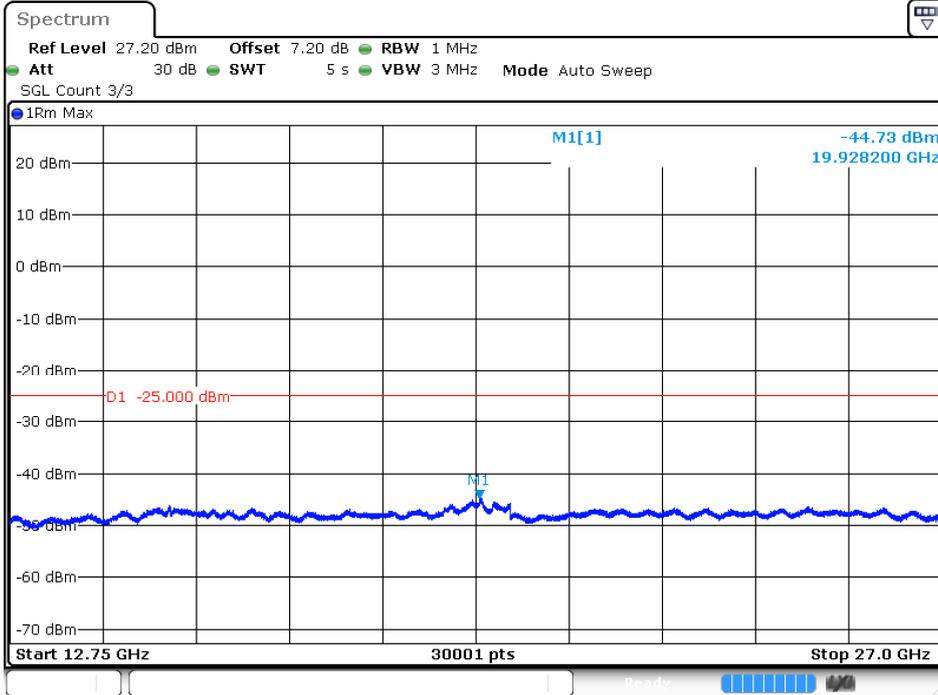
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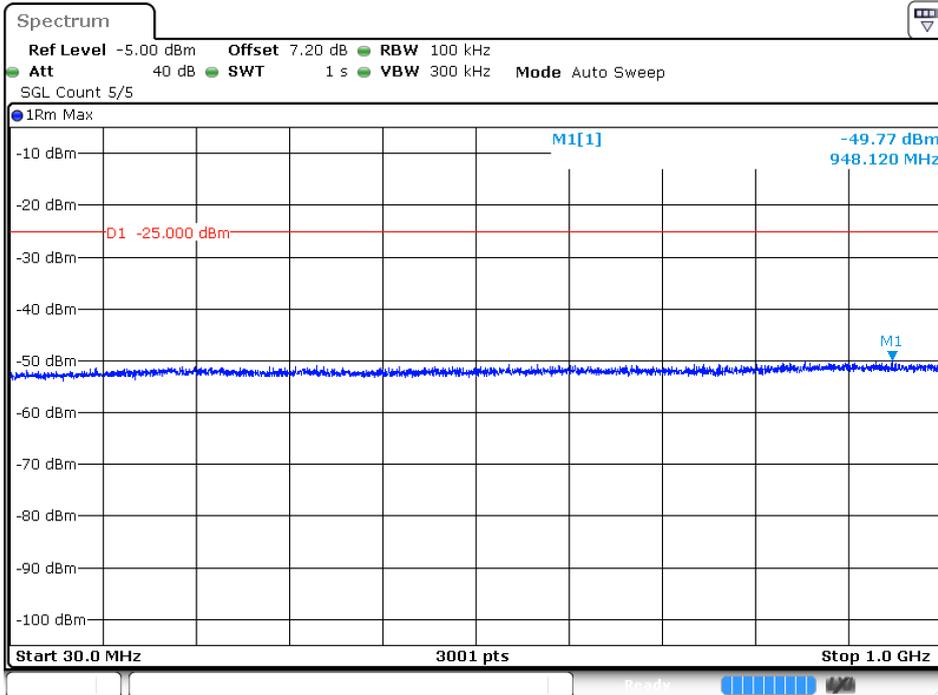


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Date: 7.DEC.2020 18:18:55

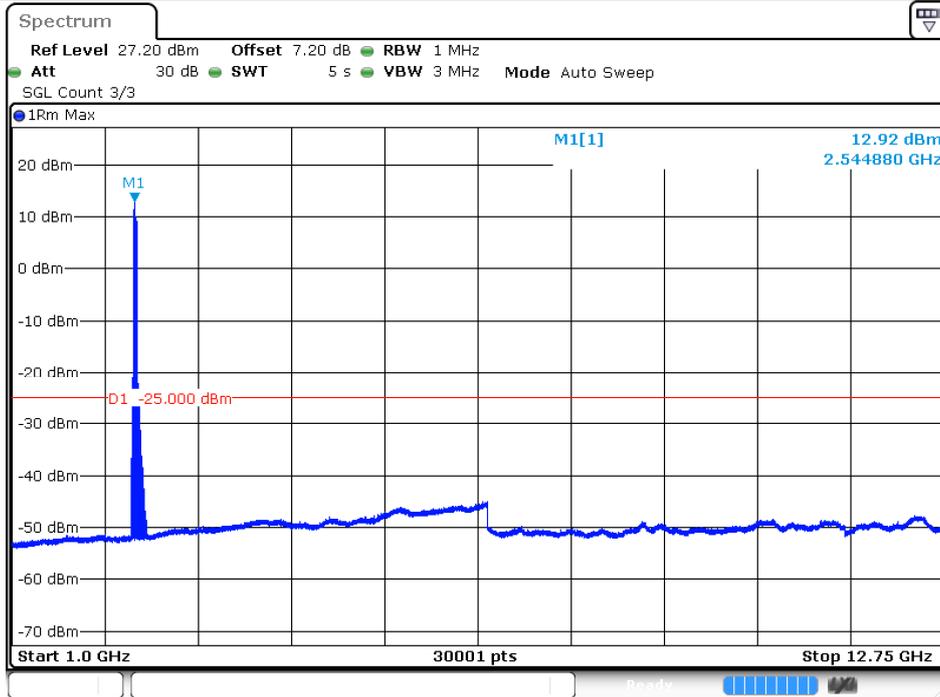
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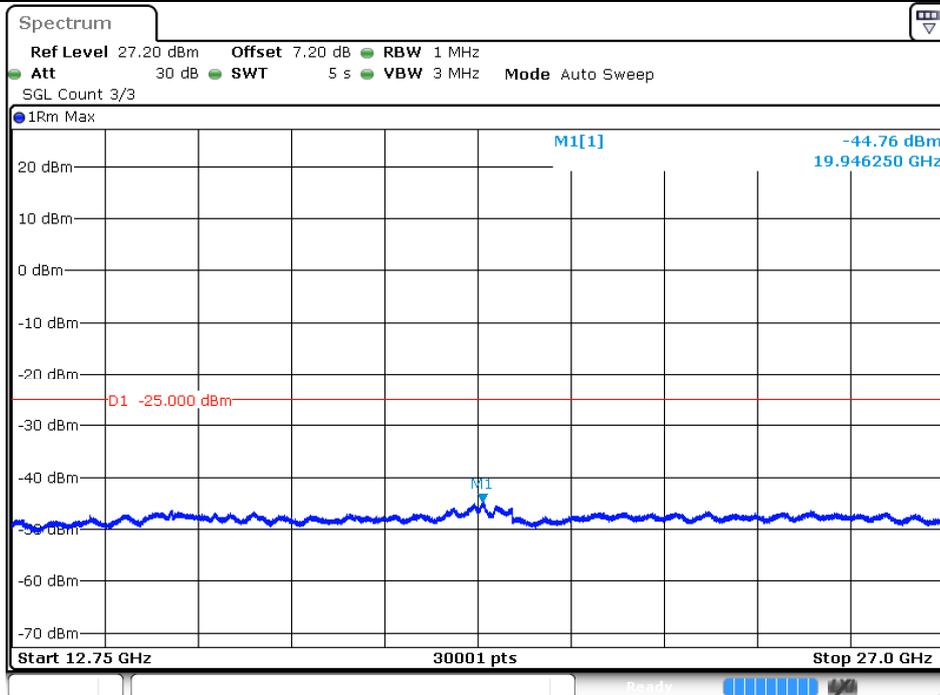


CA 41C 100RB+100RB QPSK 40140+40338 100RB#0+100RB#0 1000 12750



Date: 7.DEC.2020 18:23:30

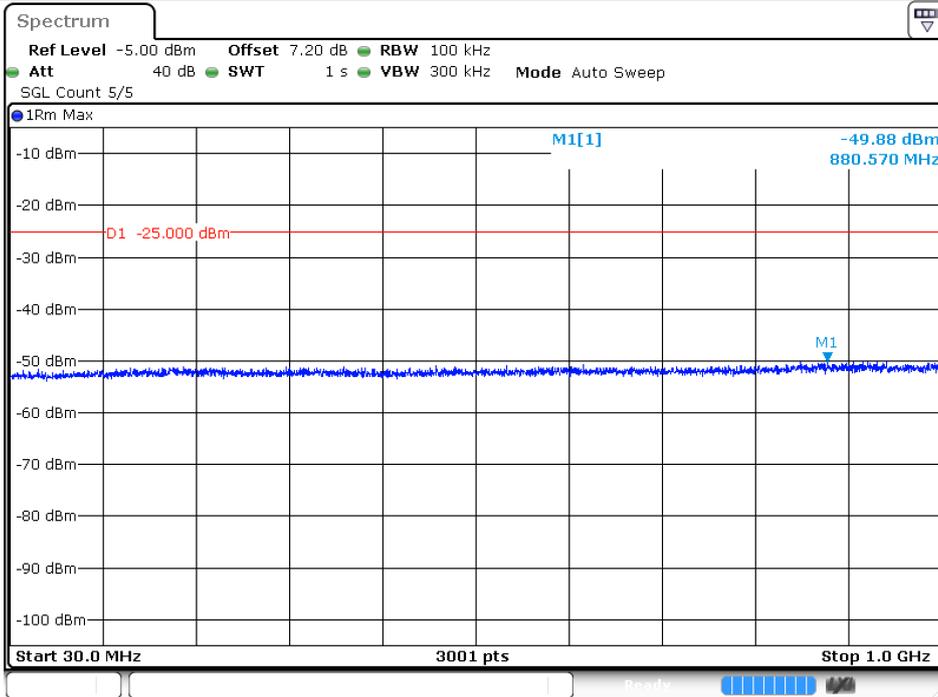
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Date: 7.DEC.2020 18:19:11

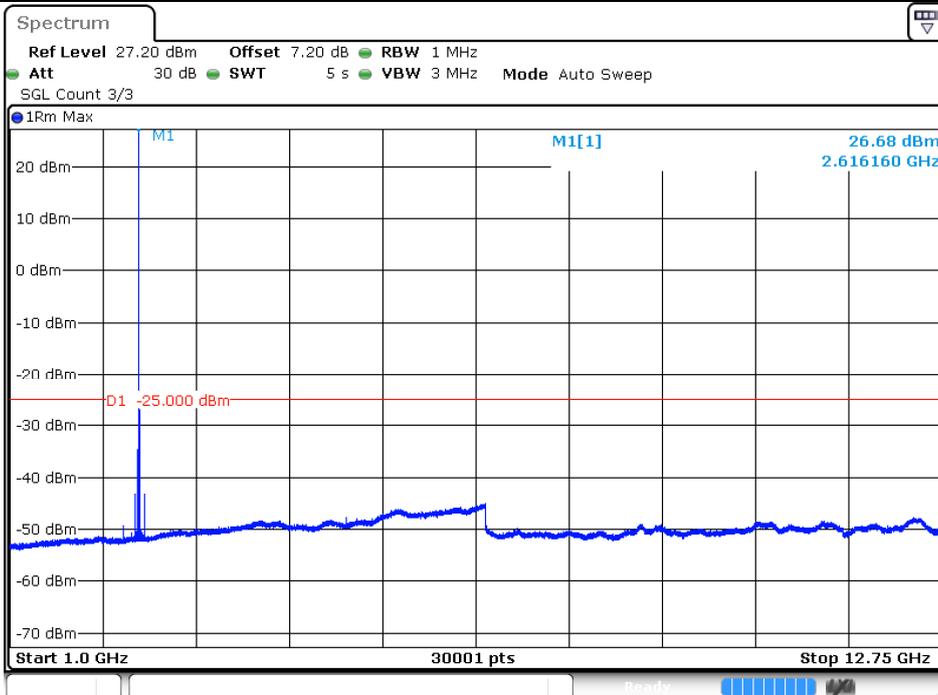


CA 41C 100RB+100RB QPSK 40942+41140 1RB#0+0RB#0 30 1000



Date: 7.DEC.2020 18:12:20

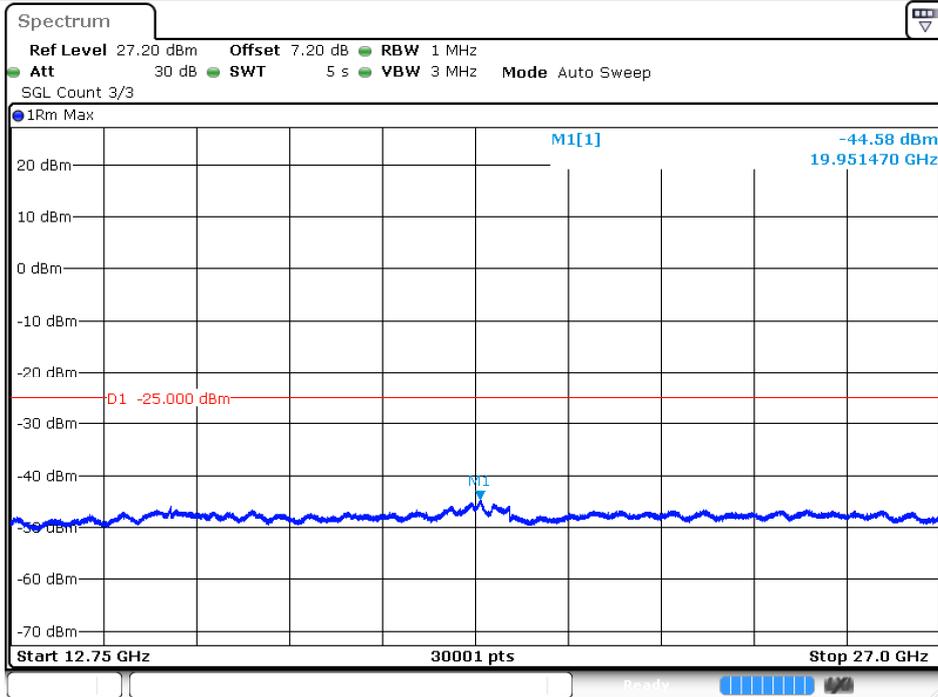
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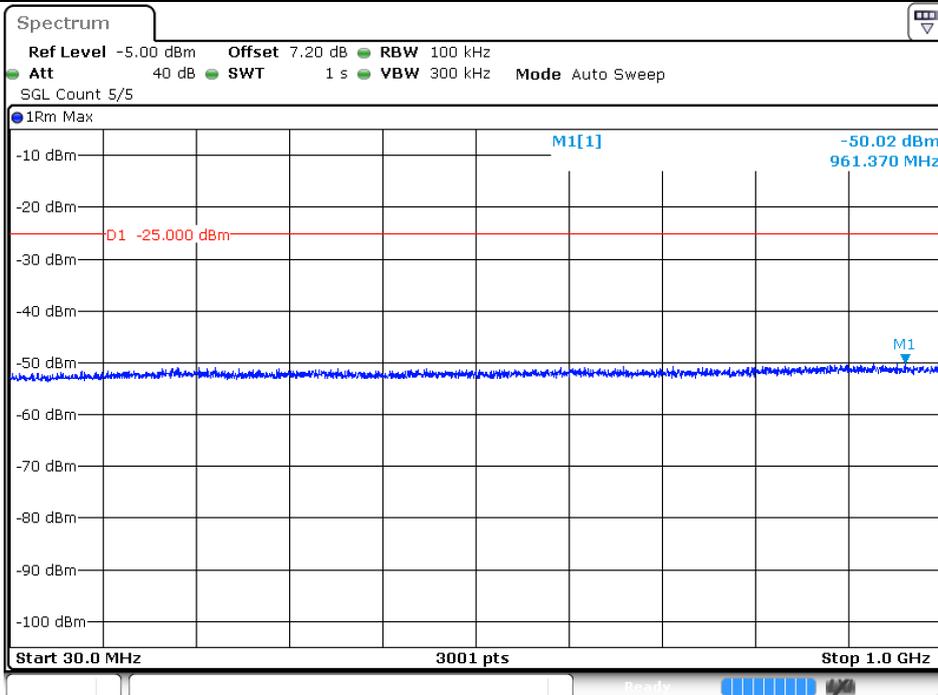


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Date: 7.DEC.2020 18:19:40

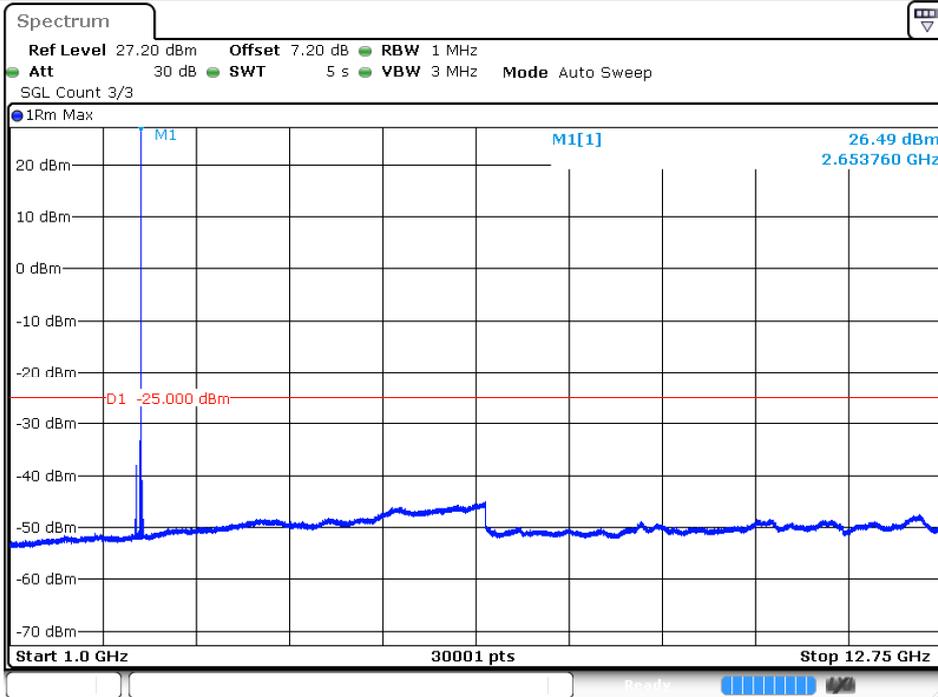
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Date: 7.DEC.2020 18:12:32

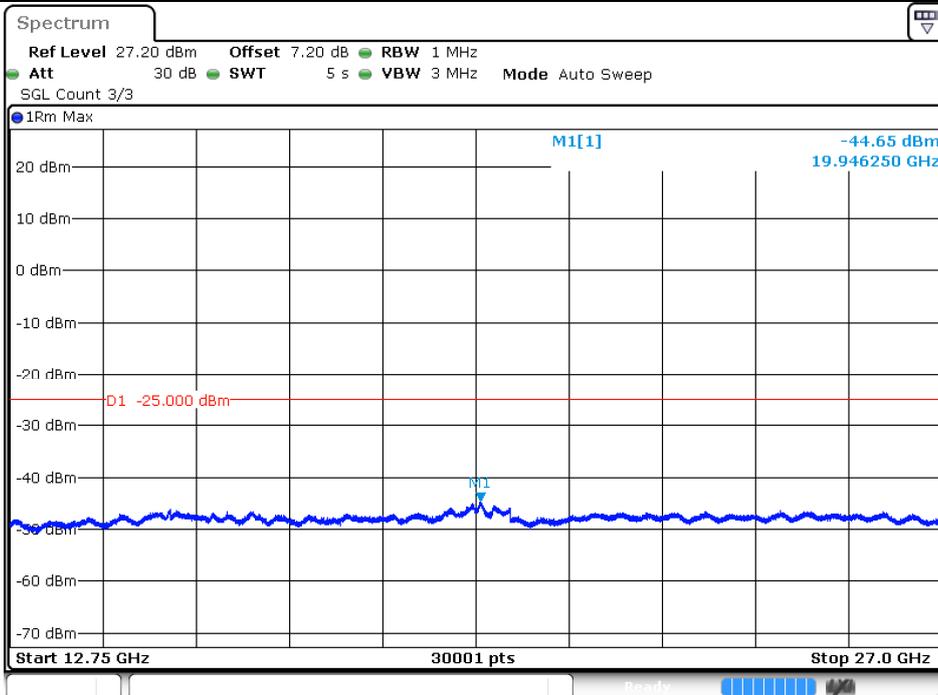


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Date: 7.DEC.2020 18:15:37

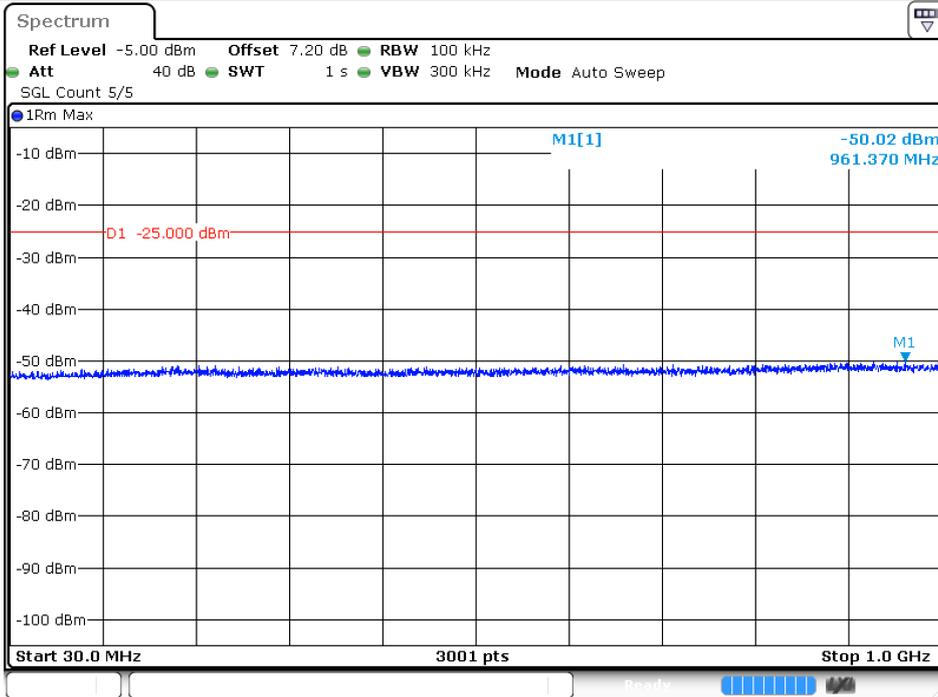
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Date: 7.DEC.2020 18:19:57

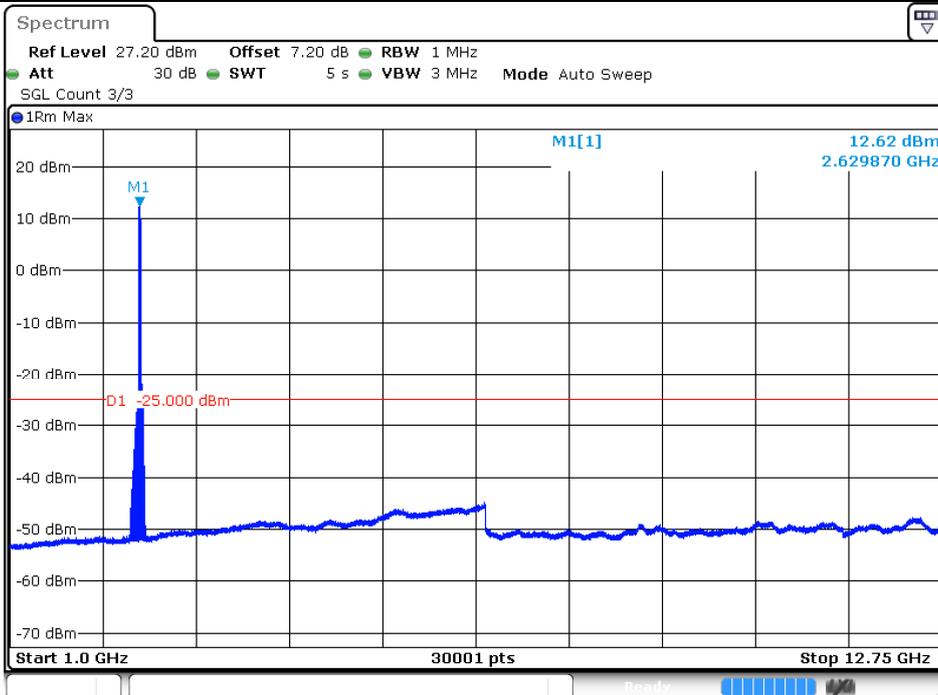


CA 41C 100RB+100RB\_QPSK\_40942+41140\_100RB#0+100RB#0\_30\_1000



Date: 7.DEC.2020 18:12:32

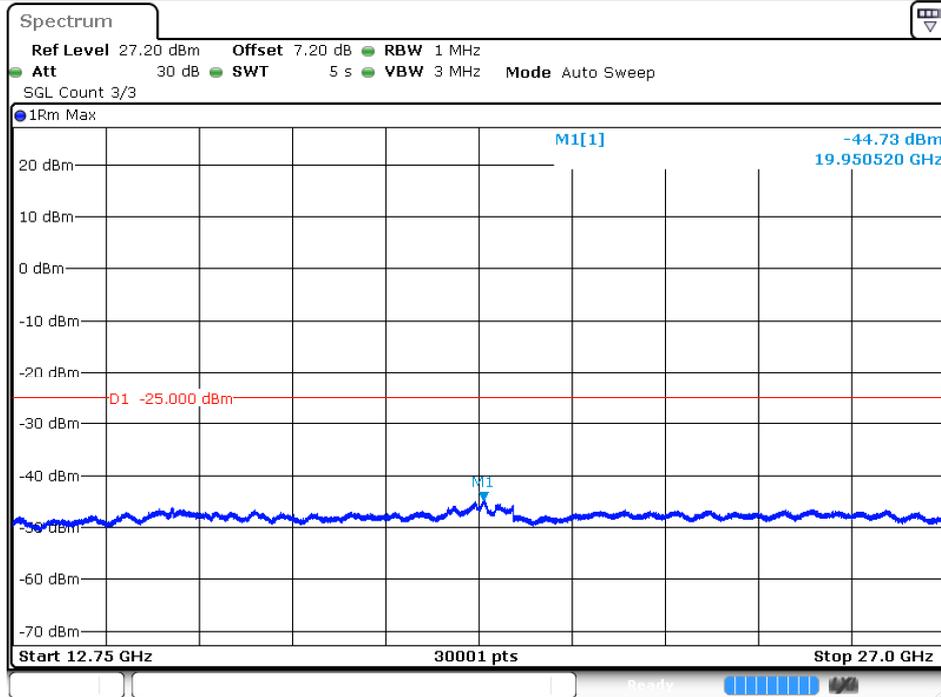
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Date: 7.DEC.2020 18:16:14

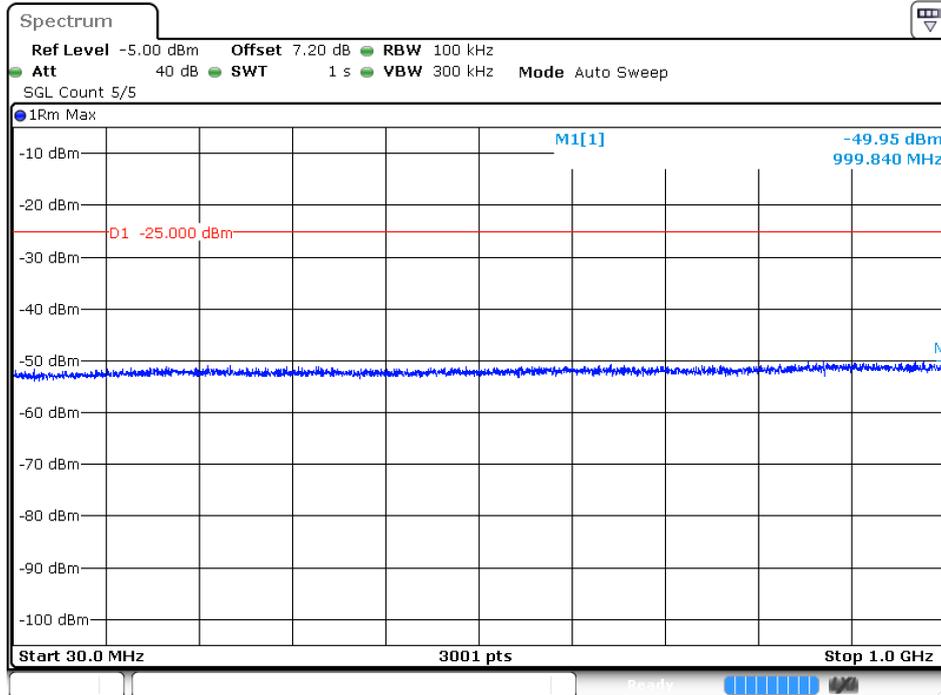


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Date: 7.DEC.2020 18:20:14

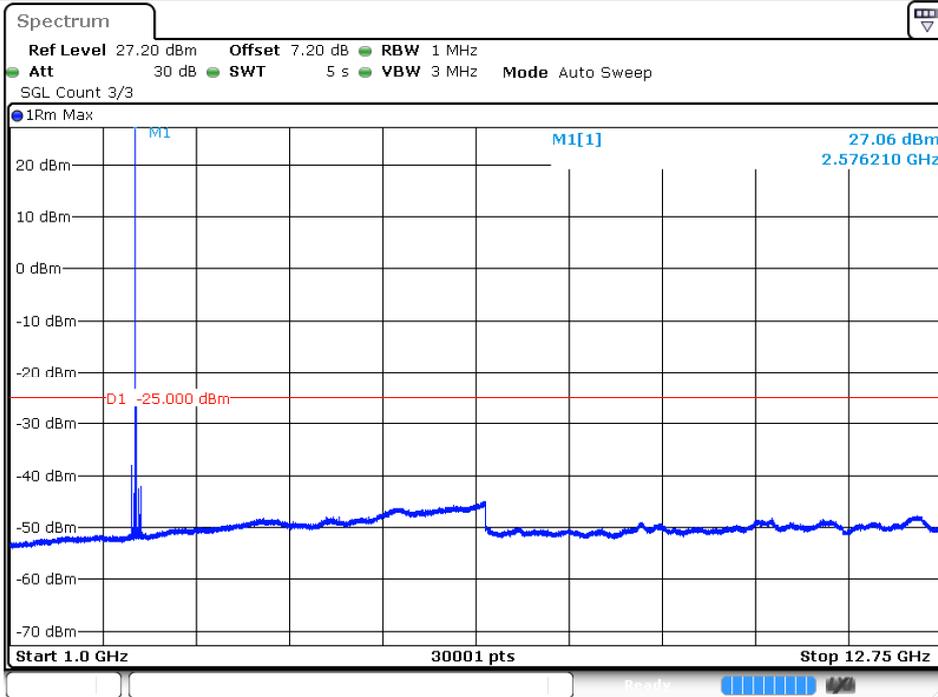
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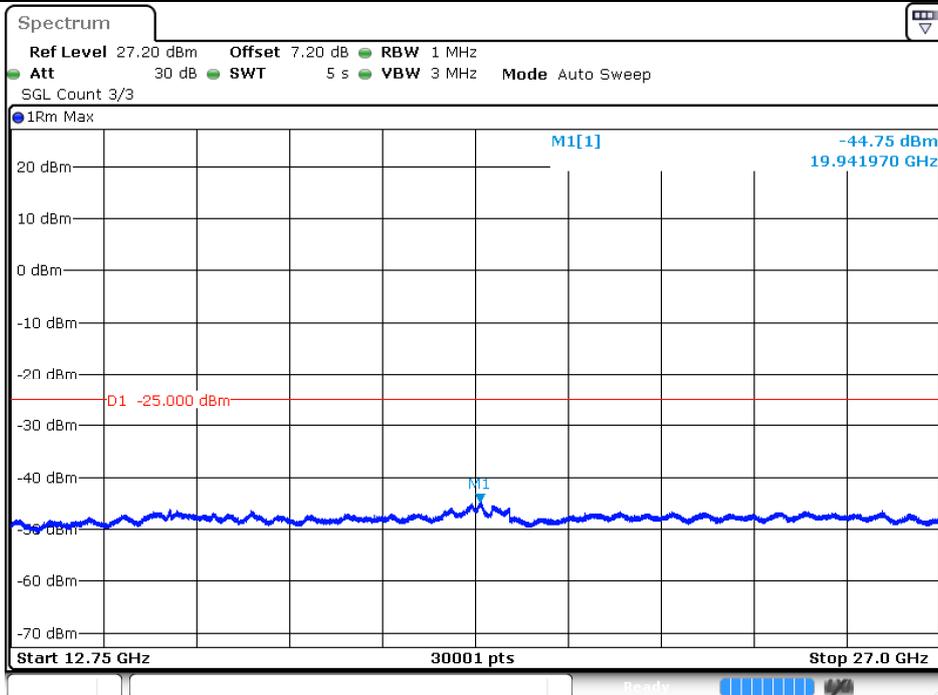


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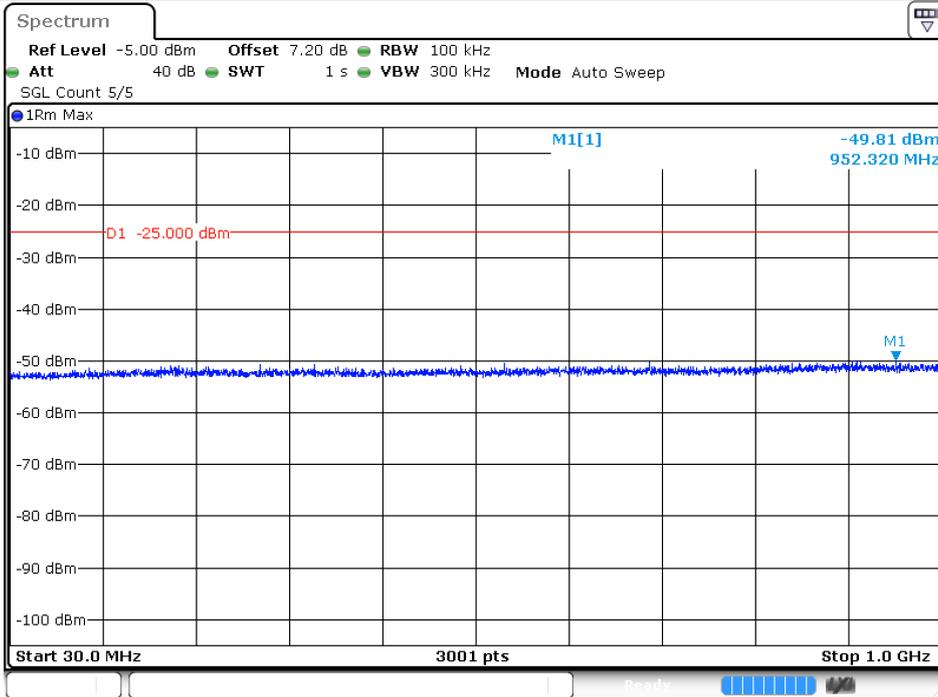
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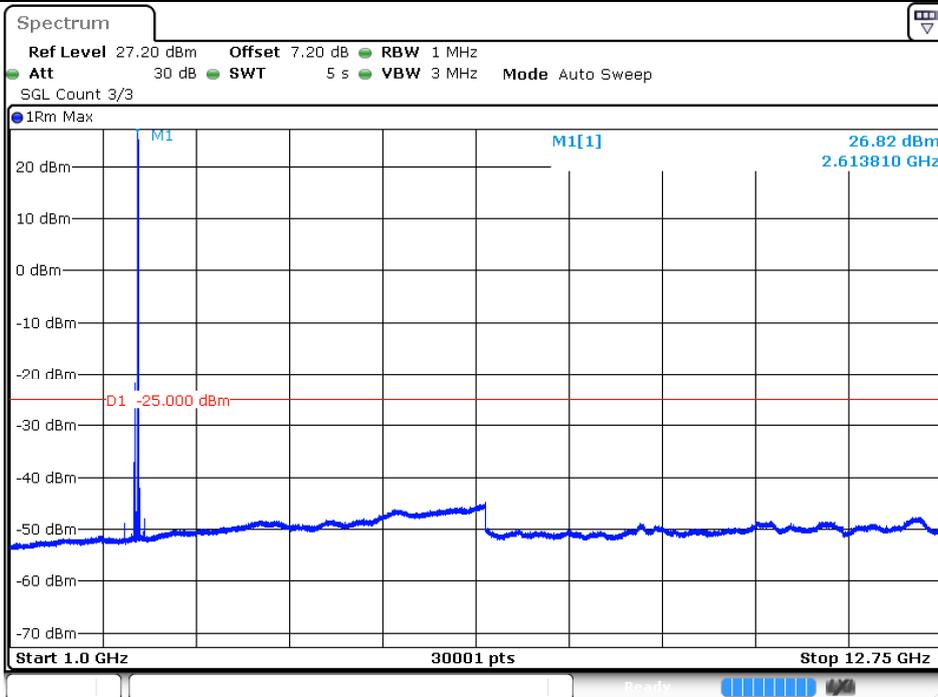


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Date: 7.DEC.2020 18:12:48

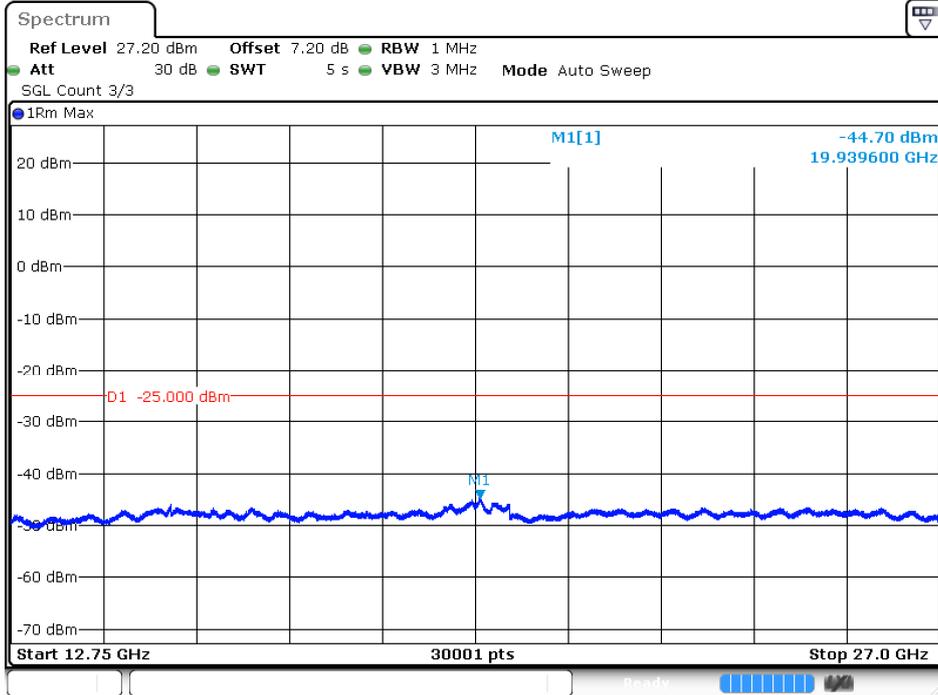
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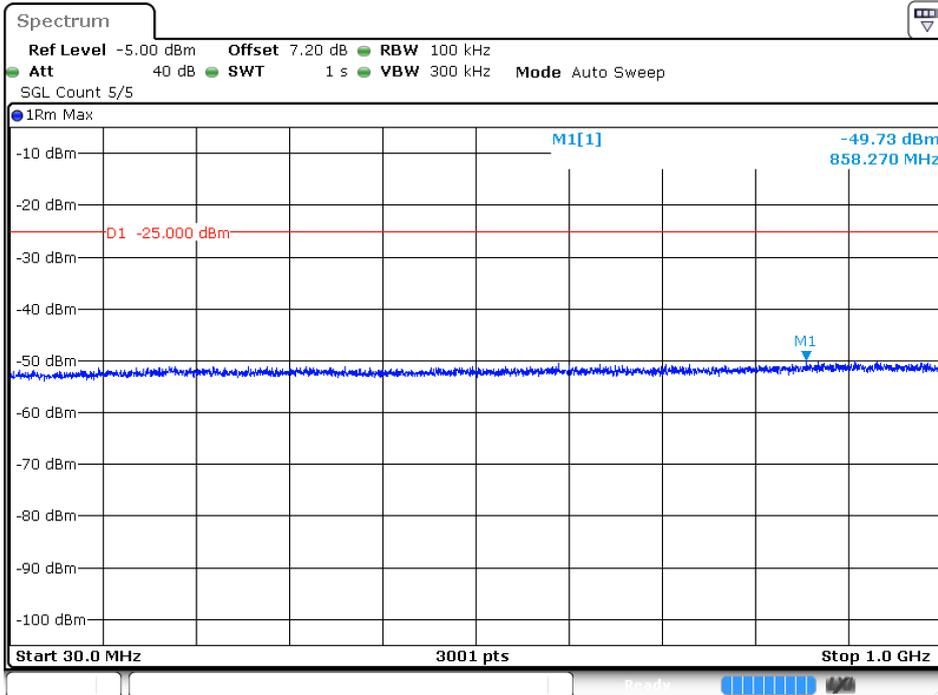


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Date: 7.DEC.2020 18:20:51

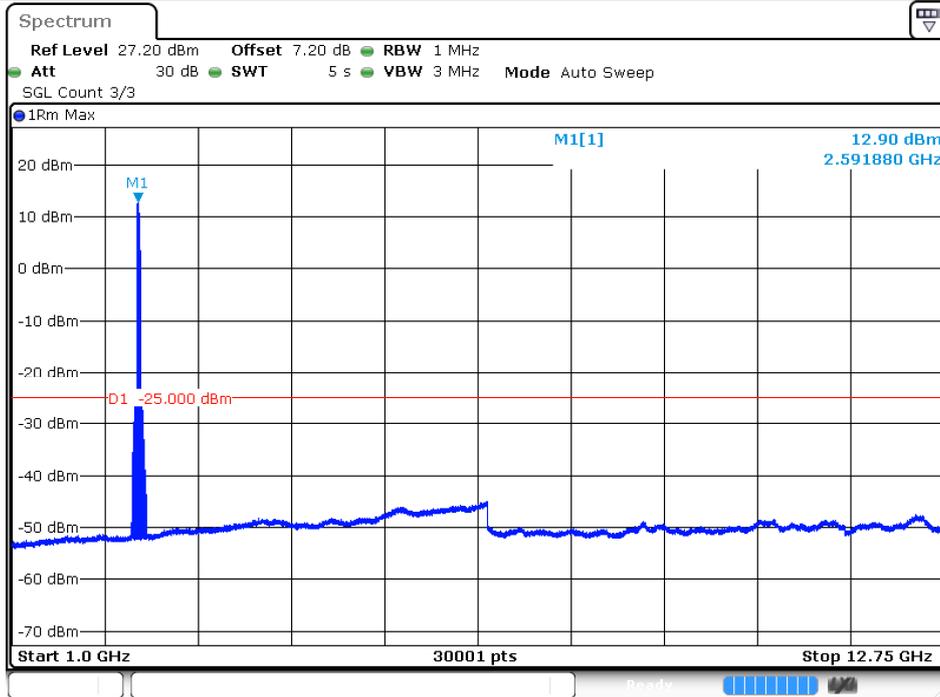
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Date: 7.DEC.2020 18:12:54

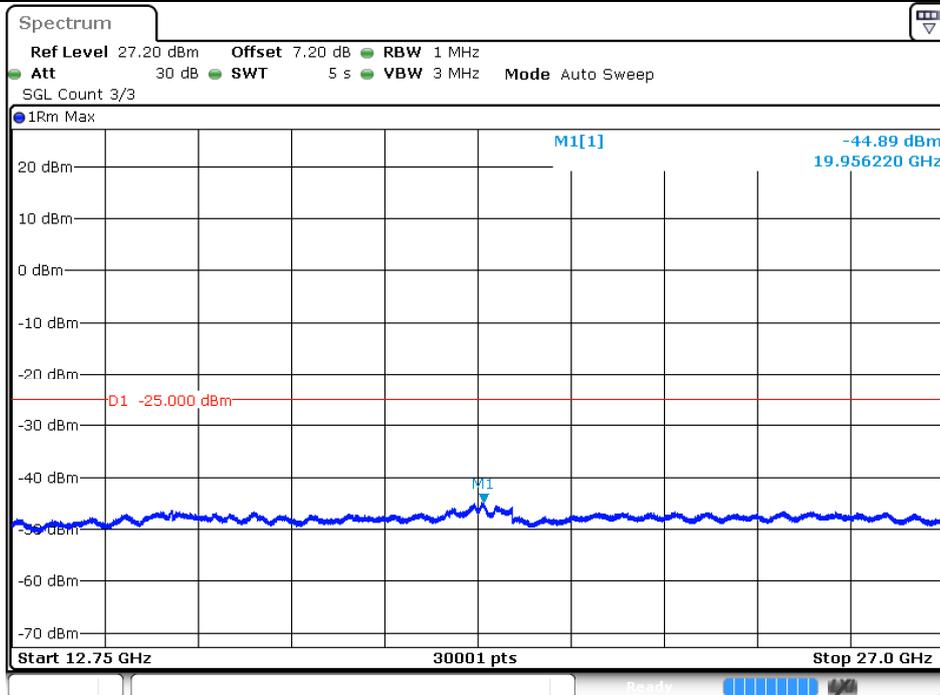


CA\_41C\_100RB+100RB\_QPSK\_40541+40739\_100RB#0+100RB#0\_1000\_12750



Date: 7.DEC.2020 18:18:14

CA\_41C\_100RB+100RB\_QPSK\_40541+40739\_100RB#0+100RB#0\_12750\_27000



Date: 7.DEC.2020 18:21:08



## 7 Field Strength of Spurious Radiation

### 7.1 Test Band = LTE Band CA\_41C (Config 0)

#### 7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.250000	-79.80	-25.00	54.80	Vertical
104.250000	-83.18	-25.00	58.18	Vertical
4231.100000	-65.39	-25.00	40.39	Vertical
7032.600000	-62.69	-25.00	37.69	Vertical
10617.675000	-60.79	-25.00	35.79	Vertical
62.200000	-75.25	-25.00	50.25	Horizontal
104.300000	-85.26	-25.00	60.27	Horizontal
270.900000	-85.73	-25.00	60.73	Horizontal
4347.775000	-65.00	-25.00	40.00	Horizontal
7087.850000	-62.67	-25.00	37.67	Horizontal
10660.575000	-61.02	-25.00	36.02	Horizontal

#### 7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.150000	-79.63	-25.00	54.63	Vertical
125.000000	-83.68	-25.00	58.68	Vertical
361.250000	-83.77	-25.00	58.77	Vertical
5171.975000	-63.04	-25.00	38.04	Vertical
7111.250000	-62.97	-25.00	37.97	Vertical
10344.350000	-58.98	-25.00	33.98	Vertical
63.100000	-75.31	-25.00	50.31	Horizontal
104.350000	-84.53	-25.00	59.53	Horizontal
261.500000	-86.12	-25.00	61.12	Horizontal
4299.675000	-64.91	-25.00	39.91	Horizontal
7043.000000	-63.08	-25.00	38.08	Horizontal
10344.350000	-60.63	-25.00	35.63	Horizontal



**7.1.3 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.750000	-79.70	-25.00	54.70	Vertical
104.250000	-83.17	-25.00	58.17	Vertical
341.900000	-84.96	-25.00	59.96	Vertical
5222.350000	-62.55	-25.00	37.55	Vertical
7833.725000	-61.38	-25.00	36.38	Vertical
10445.100000	-61.13	-25.00	36.13	Vertical
63.250000	-76.17	-25.00	51.17	Horizontal
104.300000	-84.56	-25.00	59.56	Horizontal
259.500000	-86.06	-25.00	61.06	Horizontal
4951.625000	-64.63	-25.00	39.63	Horizontal
7833.725000	-61.06	-25.00	36.06	Horizontal
10445.100000	-58.93	-25.00	33.93	Horizontal

**7.2 Test Band = LTE Band CA\_41C (Config 1)**

**7.1.1 Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.250000	-79.01	-25.00	54.01	Vertical
104.300000	-84.42	-25.00	59.42	Vertical
335.400000	-84.19	-25.00	59.19	Vertical
5081.950000	-64.20	-25.00	39.20	Vertical
8635.500000	-61.48	-25.00	36.48	Vertical
10645.625000	-60.72	-25.00	35.72	Vertical
63.100000	-75.41	-25.00	50.41	Horizontal
104.300000	-84.69	-25.00	59.69	Horizontal
254.650000	-85.84	-25.00	60.84	Horizontal
4306.825000	-64.91	-25.00	39.91	Horizontal
6650.075000	-63.85	-25.00	38.85	Horizontal
9232.850000	-60.92	-25.00	35.92	Horizontal



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**7.1.4 Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.750000	-80.17	-25.00	55.17	Vertical
104.300000	-83.85	-25.00	58.85	Vertical
344.750000	-84.35	-25.00	59.35	Vertical
5171.975000	-63.68	-25.00	38.68	Vertical
7217.200000	-62.49	-25.00	37.49	Vertical
10344.675000	-59.57	-25.00	34.57	Vertical
63.350000	-76.12	-25.00	51.12	Horizontal
104.300000	-83.87	-25.00	58.87	Horizontal
267.100000	-85.71	-25.00	60.71	Horizontal
4296.750000	-64.87	-25.00	39.87	Horizontal
7029.025000	-62.65	-25.00	37.65	Horizontal
10650.825000	-60.35	-25.00	35.35	Horizontal

**7.1.5 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.350000	-75.91	-25.00	50.91	Vertical
104.300000	-84.51	-25.00	59.51	Vertical
273.200000	-85.64	-25.00	60.64	Vertical
4295.125000	-64.94	-25.00	39.94	Vertical
6498.950000	-63.17	-25.00	38.17	Vertical
9219.850000	-60.73	-25.00	35.73	Vertical
64.300000	-80.12	-25.00	55.12	Horizontal
125.000000	-82.63	-25.00	57.63	Horizontal
348.950000	-84.72	-25.00	59.72	Horizontal
5222.350000	-62.52	-25.00	37.52	Horizontal
7834.050000	-61.35	-25.00	36.35	Horizontal
10662.200000	-60.70	-25.00	35.70	Horizontal

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz and above 12.75GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.



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## 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	RB Config	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	TN	LV	-5.65	-0.002253	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	TN	NV	-0.47	-0.000188	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	TN	HV	1.37	0.000546	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	TN	LV	1.62	0.000626	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	TN	NV	0.45	0.000173	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	TN	HV	-7.57	-0.002930	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	TN	LV	-6.32	-0.002376	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	TN	NV	6.94	0.002607	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	TN	HV	-2.91	-0.001092	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	TN	LV	-10.72	-0.004280	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	TN	NV	3.33	0.001328	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	TN	HV	1.95	0.000776	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	TN	LV	3.55	0.001374	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	TN	NV	-5.50	-0.002129	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	TN	HV	-1.85	-0.000716	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	TN	LV	0.60	0.000227	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	TN	NV	0.79	0.000297	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	TN	HV	10.93	0.004110	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	TN	LV	0.06	0.000022	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	TN	NV	-10.31	-0.004116	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	TN	HV	-7.33	-0.002924	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	TN	LV	4.30	0.001664	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	TN	NV	4.21	0.001632	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	TN	HV	-9.10	-0.003521	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	TN	LV	1.14	0.000429	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	TN	NV	5.91	0.002221	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	TN	HV	12.89	0.004844	PASS

### 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	-30	-0.11	-0.000044	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	-20	1.12	0.000447	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	-10	4.76	0.001901	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	0	2.35	0.000936	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	10	-1.05	-0.000418	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	20	0.95	0.000377	PASS



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CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	30	-2.33	-0.000928	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	40	-9.57	-0.003820	PASS
CA_41C	QPSK	40140+40338	50RB#0/50RB#0	NV	50	1.54	0.000613	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	-30	-7.94	-0.003076	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	-20	8.52	0.003300	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	-10	-4.33	-0.001675	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	0	9.21	0.003566	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	10	-4.23	-0.001637	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	20	11.59	0.004487	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	30	-5.32	-0.002059	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	40	-7.86	-0.003044	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	50	2.42	0.000937	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	-30	-1.66	-0.000624	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	-20	2.08	0.000780	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	-10	9.55	0.003590	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	0	-6.54	-0.002460	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	10	4.73	0.001776	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	20	0.41	0.000156	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	30	0.34	0.000129	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	40	-4.41	-0.001659	PASS
CA_41C	QPSK	40942+41140	50RB#0/50RB#0	NV	50	5.54	0.002082	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	-30	-2.46	-0.000983	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	-20	-7.53	-0.003006	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	-10	4.88	0.001946	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	0	9.85	0.003930	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	10	-8.00	-0.003191	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	20	-8.50	-0.003393	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	30	2.43	0.000968	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	40	0.49	0.000197	PASS
CA_41C	16QAM	40140+40338	50RB#0/50RB#0	NV	50	-1.86	-0.000742	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	-30	-0.29	-0.000114	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	-20	-4.90	-0.001897	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	-10	-4.17	-0.001613	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	0	0.72	0.000280	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	10	2.95	0.001143	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	20	-3.59	-0.001389	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	30	0.08	0.000032	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	40	3.42	0.001324	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	50	2.71	0.001048	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	-30	5.77	0.002169	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	-20	6.97	0.002621	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	-10	5.24	0.001969	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	0	-9.40	-0.003532	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	10	-2.96	-0.001112	PASS



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CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	20	9.60	0.003608	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	30	-3.19	-0.001199	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	40	-3.77	-0.001417	PASS
CA_41C	16QAM	40942+41140	50RB#0/50RB#0	NV	50	-5.22	-0.001962	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	-30	4.61	0.001839	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	-20	-0.94	-0.000375	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	-10	-5.12	-0.002041	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	0	4.15	0.001654	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	10	9.65	0.003849	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	20	-4.75	-0.001897	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	30	-12.06	-0.004811	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	40	2.50	0.000998	PASS
CA_41C	64QAM	40140+40338	50RB#0/50RB#0	NV	50	-2.76	-0.001101	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	-30	-10.69	-0.004139	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	-20	-5.78	-0.002238	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	-10	-3.53	-0.001368	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	0	6.20	0.002399	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	10	7.08	0.002741	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	20	8.32	0.003220	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	30	-9.56	-0.003702	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	40	2.35	0.000911	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	50	13.03	0.005045	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	-30	-8.92	-0.003354	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	-20	-6.41	-0.002411	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	-10	10.45	0.003930	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	0	-0.66	-0.000247	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	10	6.51	0.002446	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	20	3.85	0.001448	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	30	-3.10	-0.001165	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	40	-9.81	-0.003688	PASS
CA_41C	64QAM	40942+41140	50RB#0/50RB#0	NV	50	-9.46	-0.003556	PASS



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