

# Appendix B

## E-UTRA Band 30



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Conducted Power Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.30	23.3	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.32	23.32	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.29	23.29	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#13	21.42	22.42	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#0	21.47	22.47	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#6	21.44	22.44	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.44	22.44	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.21	23.21	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.30	23.3	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.35	23.35	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#0	21.41	22.41	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#13	21.36	22.36	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#6	21.44	22.44	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.39	22.39	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.35	23.35	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.29	23.29	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.19	23.19	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#0	21.42	22.42	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#6	21.40	22.4	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#13	21.33	22.33	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.42	22.42	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.46	21.46	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.35	21.35	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.49	21.49	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#13	20.41	21.41	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#6	20.46	21.46	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#0	20.39	21.39	23.98	PASS

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Band30	5MHz	64QAM	27685	25RB#0	20.39	21.39	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.44	21.44	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.51	21.51	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.45	21.45	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#0	20.42	21.42	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#6	20.42	21.42	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#13	20.40	21.4	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	20.40	21.4	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.52	21.52	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.47	21.47	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.36	21.36	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#0	20.44	21.44	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#6	20.47	21.47	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#13	20.31	21.31	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	20.47	21.47	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.61	22.61	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.57	22.57	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.57	22.57	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#0	20.39	21.39	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#6	20.42	21.42	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#13	20.40	21.4	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.39	21.39	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.47	22.47	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.52	22.52	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.56	22.56	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#0	20.43	21.43	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#13	20.37	21.37	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#6	20.45	21.45	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.34	21.34	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.55	22.55	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.57	22.57	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.37	22.37	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#13	20.36	21.36	23.98	PASS

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Band30	5MHz	16QAM	27735	12RB#6	20.47	21.47	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#0	20.49	21.49	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.39	21.39	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.33	23.33	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.09	23.09	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.23	23.23	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#12	21.40	22.4	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#25	21.38	22.38	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#0	21.41	22.41	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.42	22.42	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.51	21.51	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.55	21.55	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.38	21.38	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#12	20.45	21.45	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#0	20.33	21.33	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#25	20.43	21.43	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	20.41	21.41	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.60	22.6	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.37	22.37	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.62	22.62	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#12	20.45	21.45	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#0	20.35	21.35	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#25	20.38	21.38	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.35	21.35	23.98	PASS

## Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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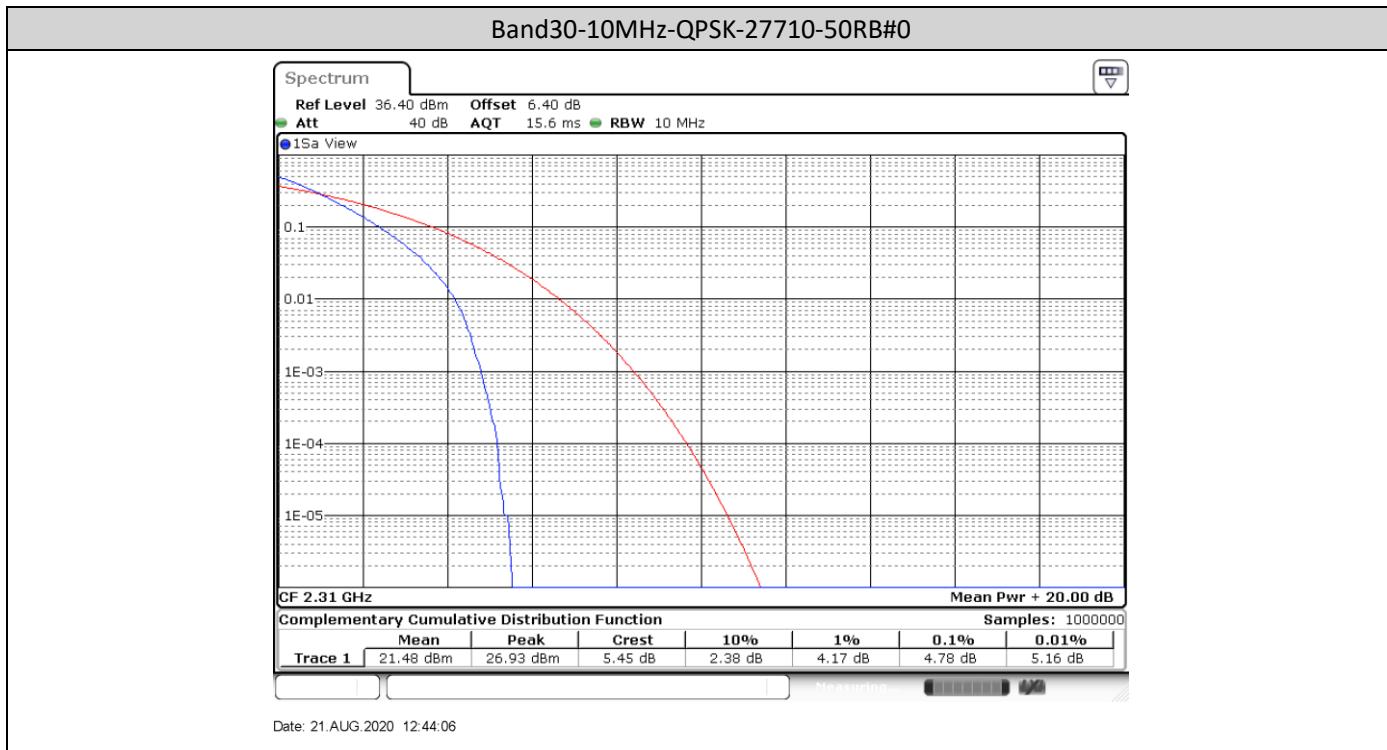
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## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	4.78	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	5.77	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.77	13	PASS

### 2.2. Test Plots



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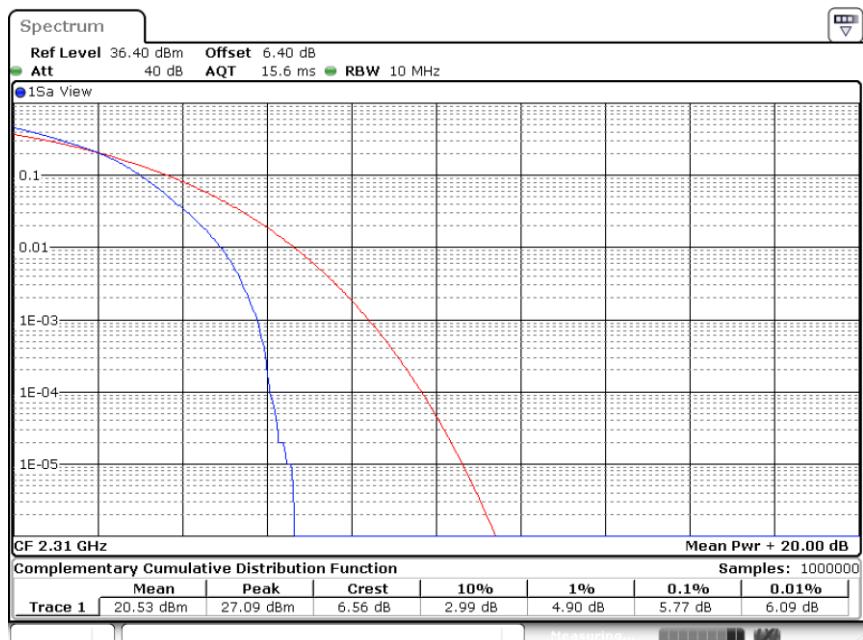
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## Band30-10MHz-64QAM-27710-50RB#0



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## Band30-10MHz-16QAM-27710-50RB#0



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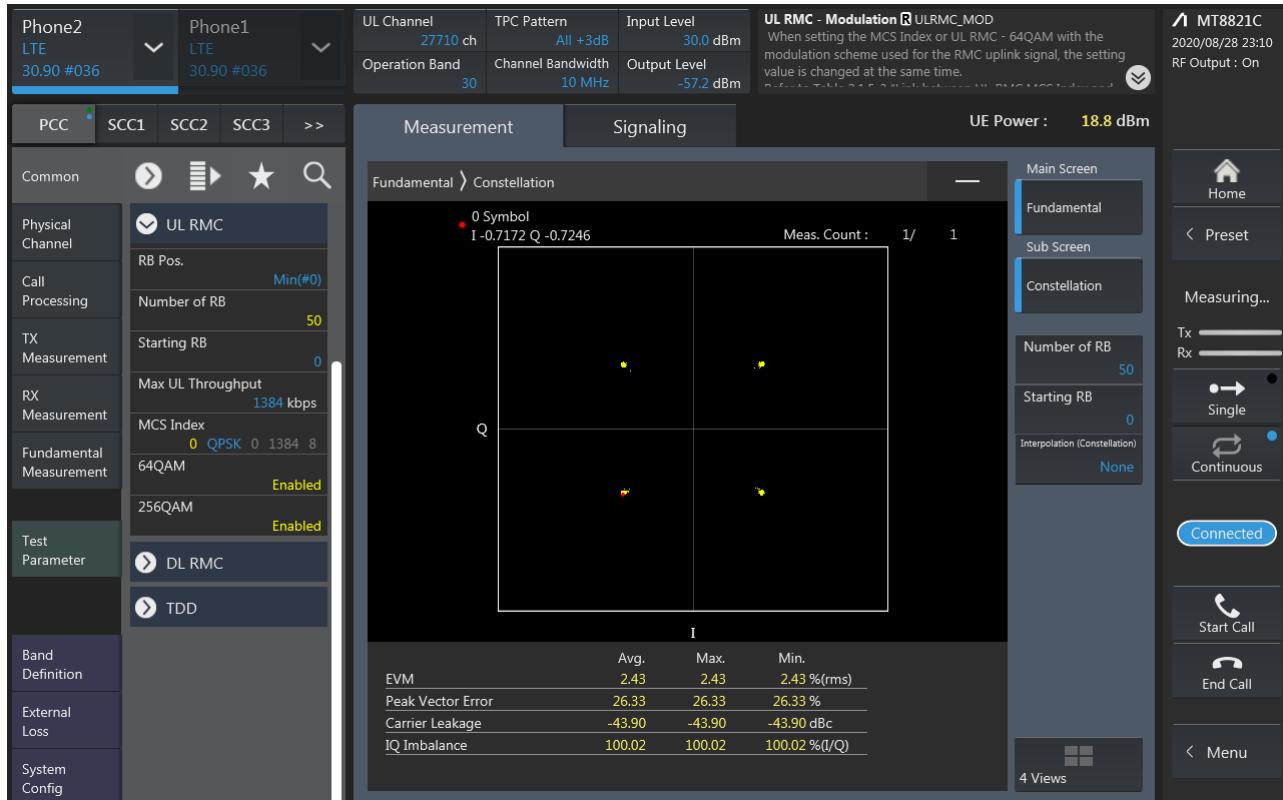


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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH



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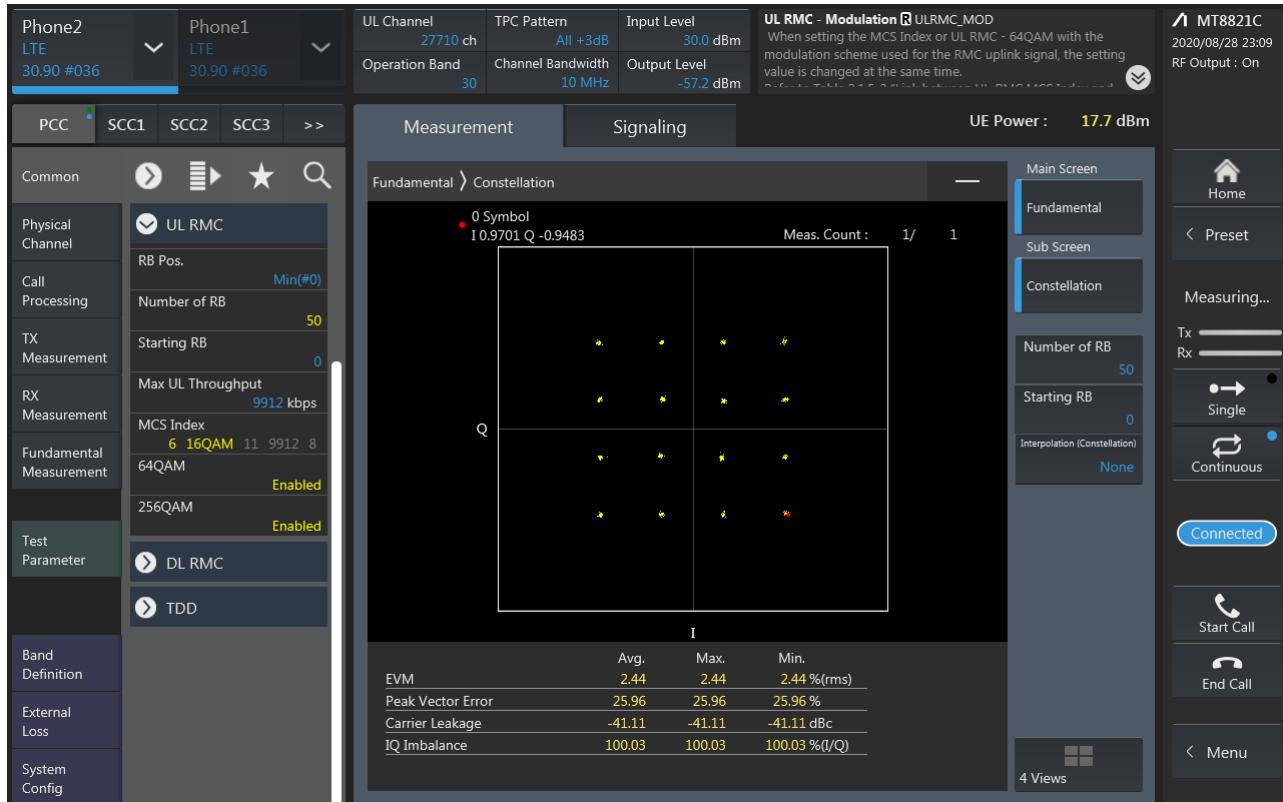
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## 3.2. Test Mode = LTE /TM2 10MHz

### 3.2.1. Test Channel = MCH



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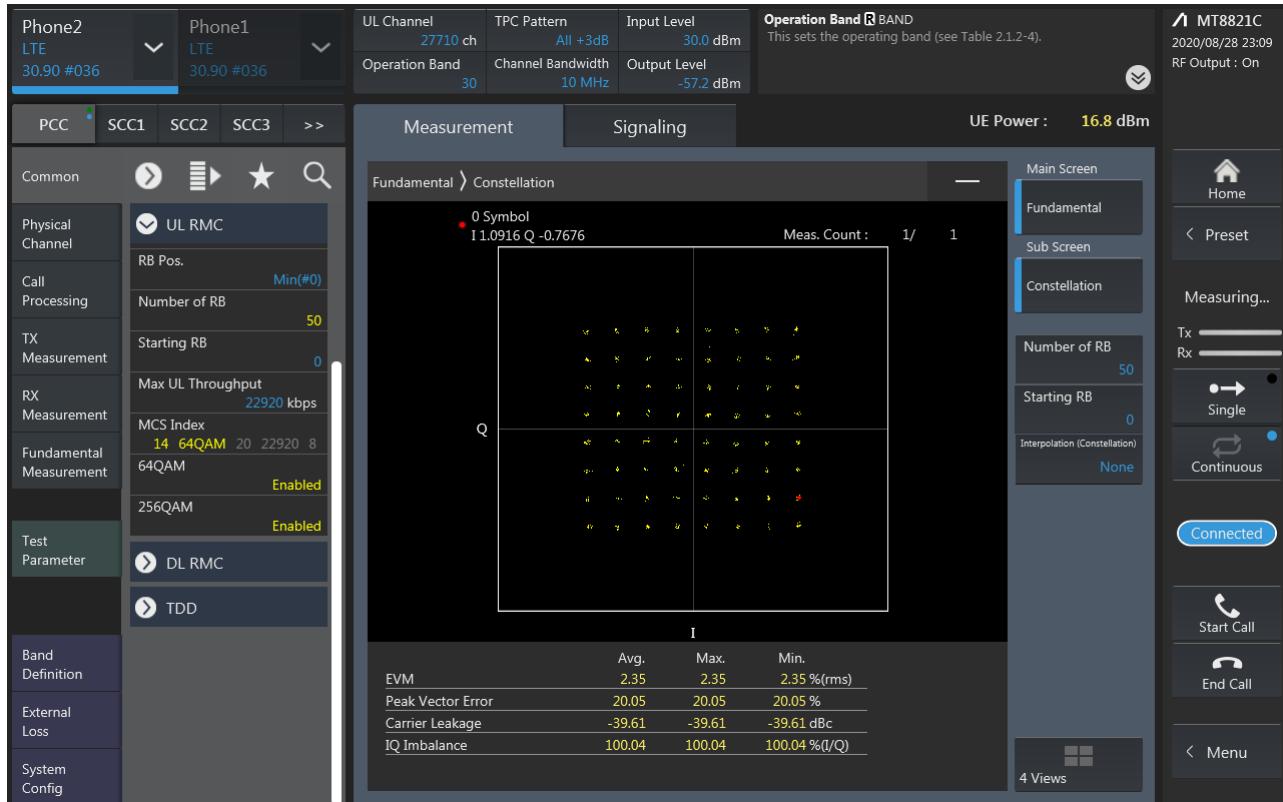


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### 3.3. Test Mode = LTE /TM3 10MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.476	4.890	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.466	4.890	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.476	4.910	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.476	4.960	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.476	4.950	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.476	4.950	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.496	4.920	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.486	4.910	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.486	4.920	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.931	9.660	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.931	9.720	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.951	9.720	PASS

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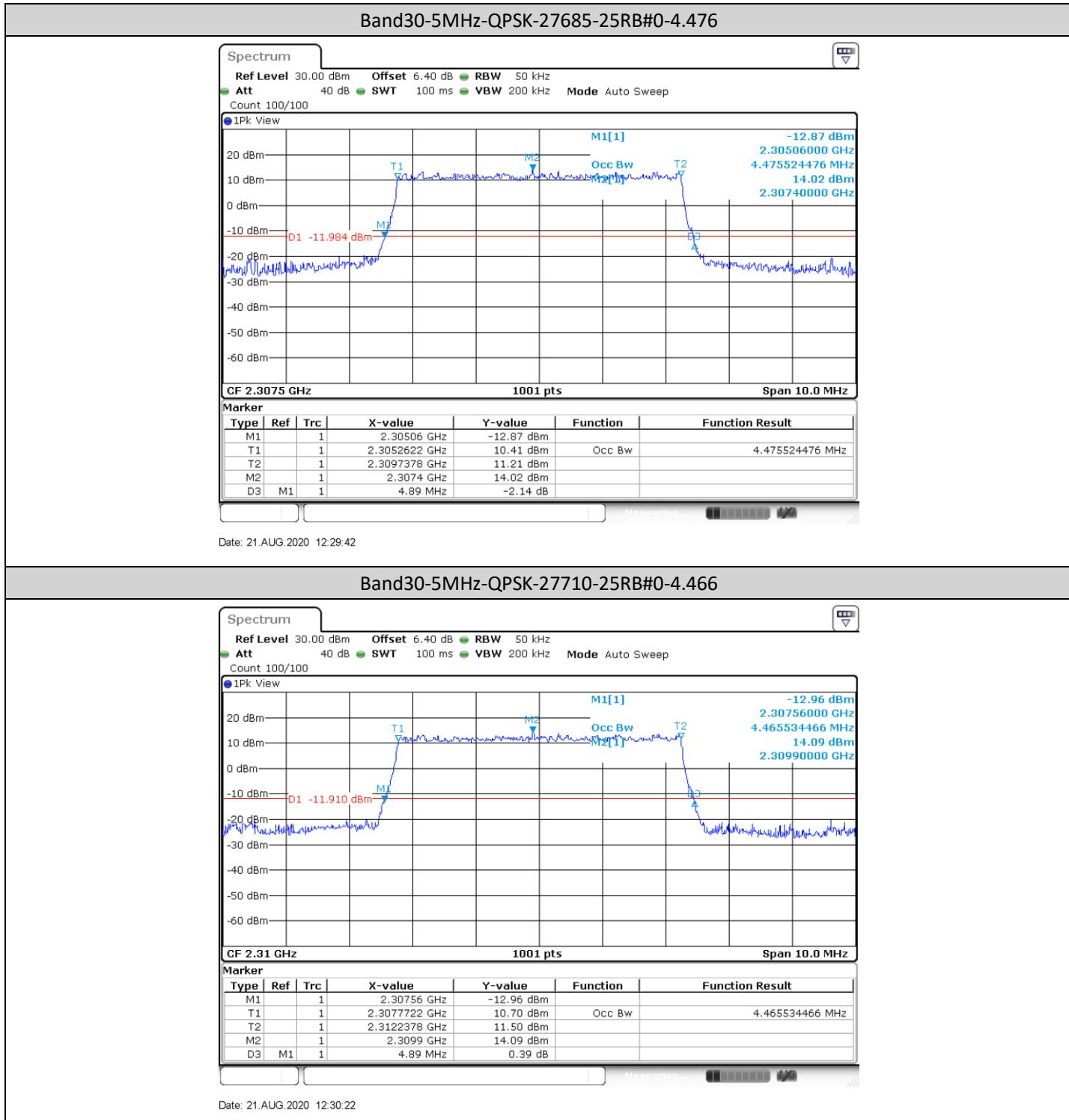
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## 4.2. Test Plots



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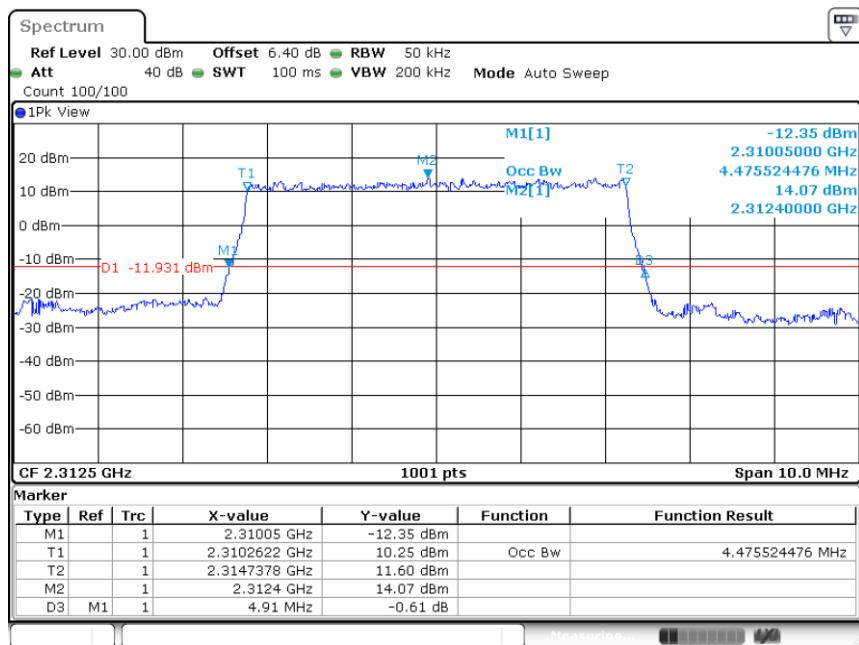


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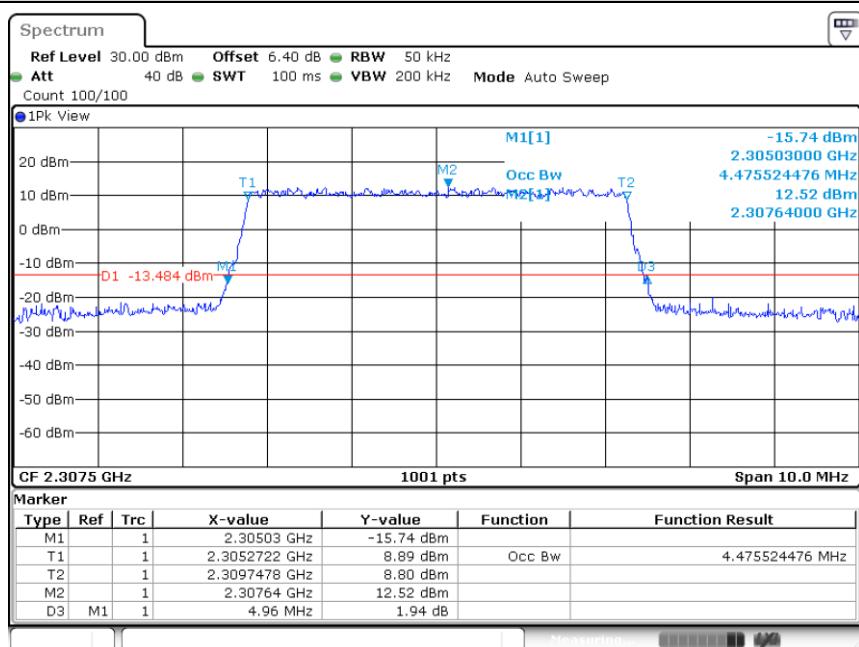


Band30-5MHz-QPSK-27735-25RB#0-4.476



Date: 21.AUG.2020 12:31:01

Band30-5MHz-64QAM-27685-25RB#0-4.476



Date: 21.AUG.2020 12:44:41

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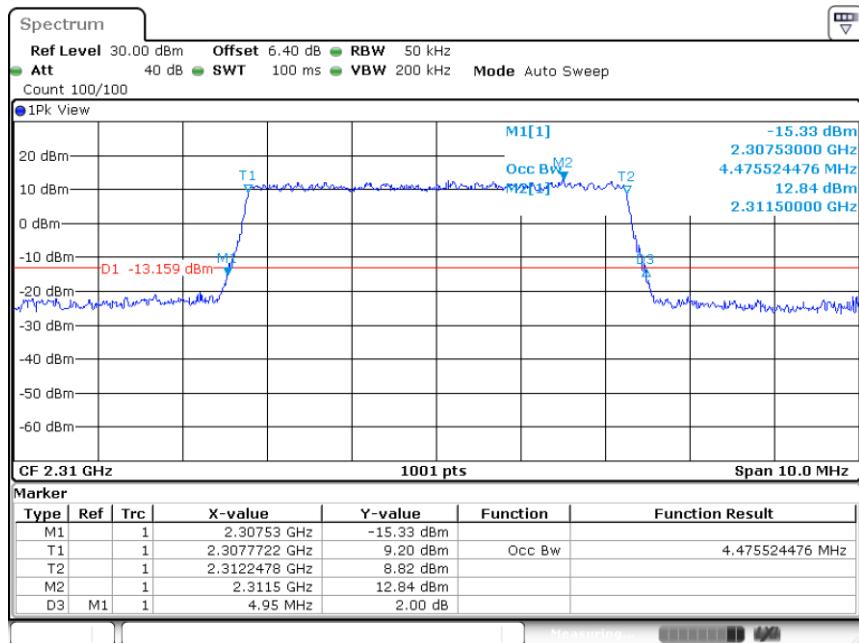
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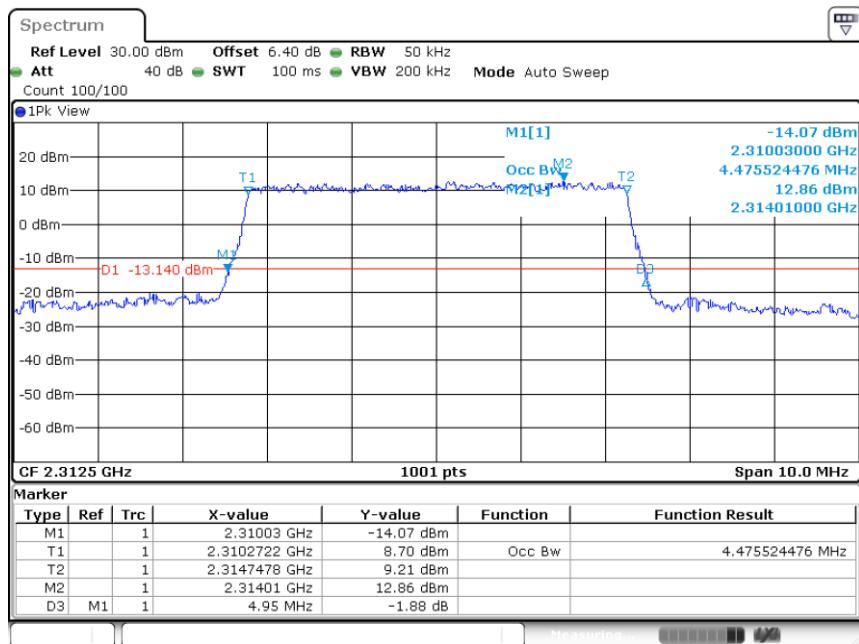
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## Band30-5MHz-64QAM-27710-25RB#0-4.476



Date: 21.AUG.2020 12:45:01

## Band30-5MHz-64QAM-27735-25RB#0-4.476



Date: 21.AUG.2020 12:45:21

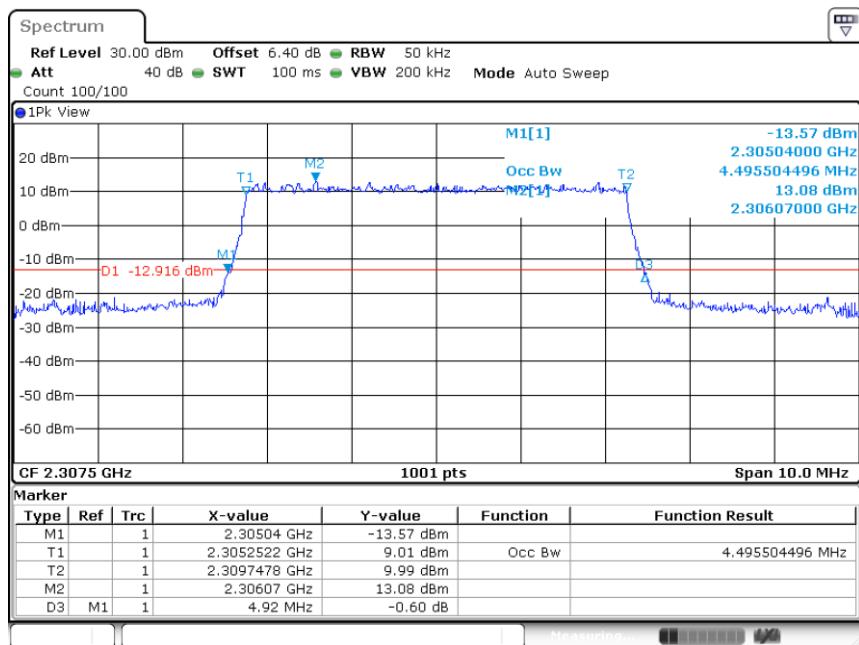
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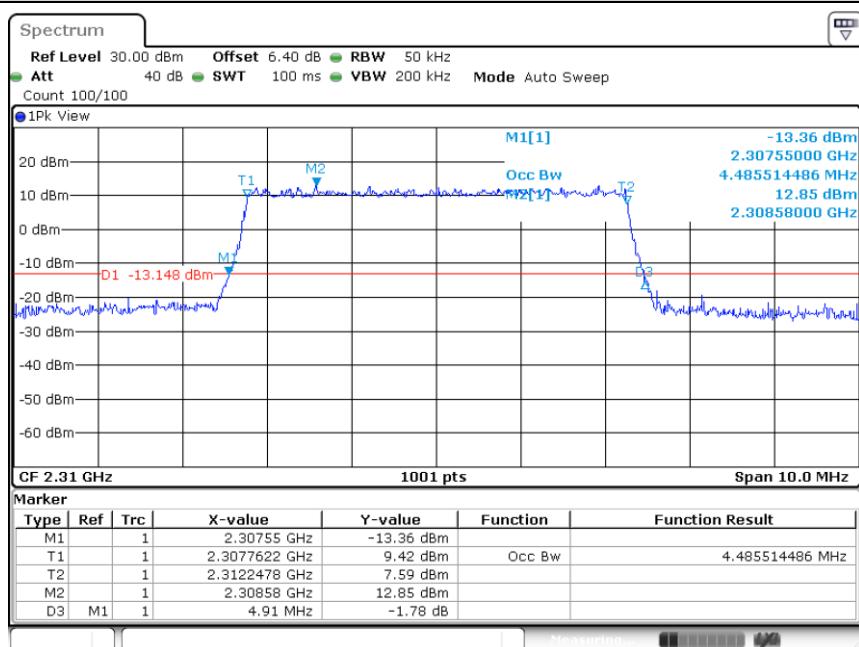
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## Band30-5MHz-16QAM-27685-25RB#0-4.496



Date: 21.AUG.2020 12:30:02

## Band30-5MHz-16QAM-27710-25RB#0-4.486



Date: 21.AUG.2020 12:30:41

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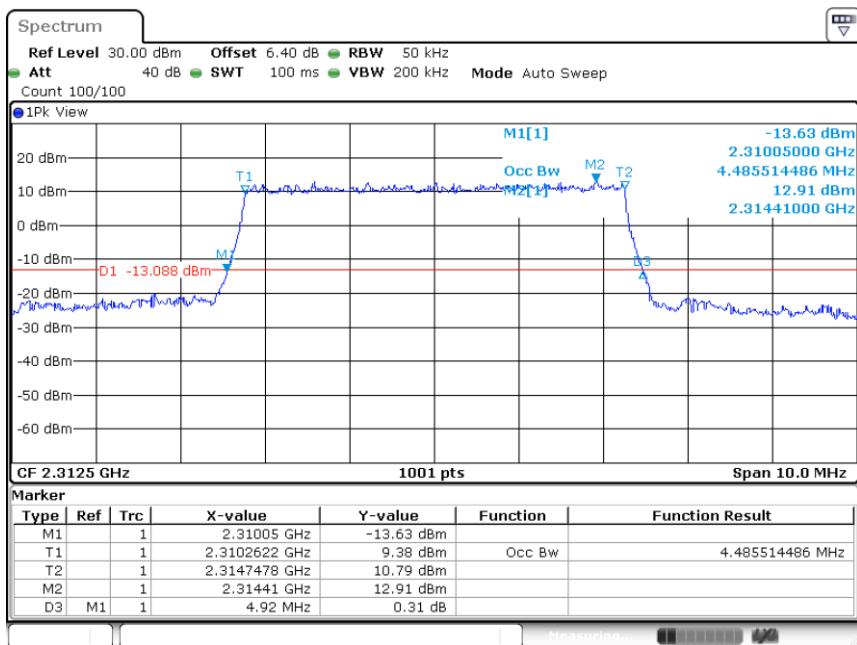
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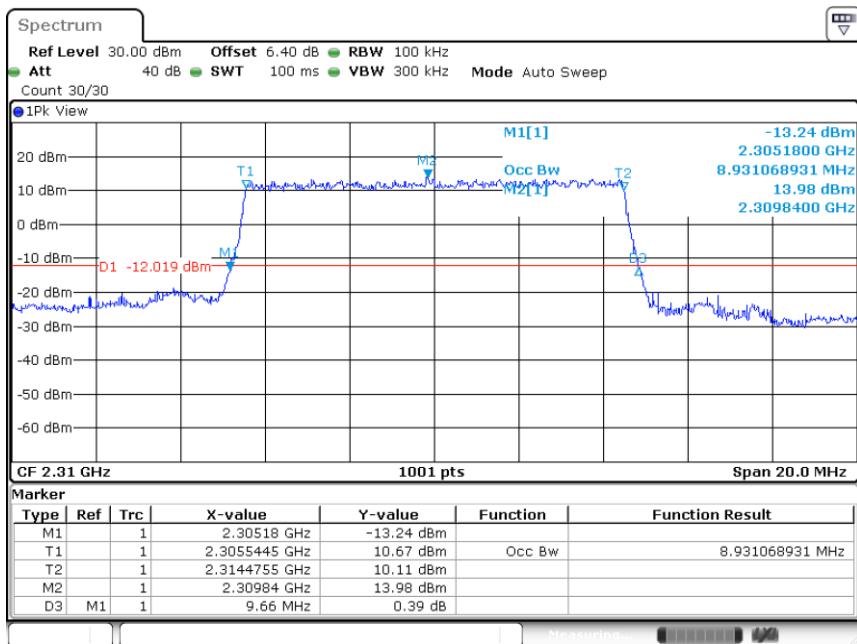


Band30-5MHz-16QAM-27735-25RB#0-4.486



Date: 21.AUG.2020 12:31:21

Band30-10MHz-QPSK-27710-50RB#0-8.931



Date: 21.AUG.2020 12:31:38

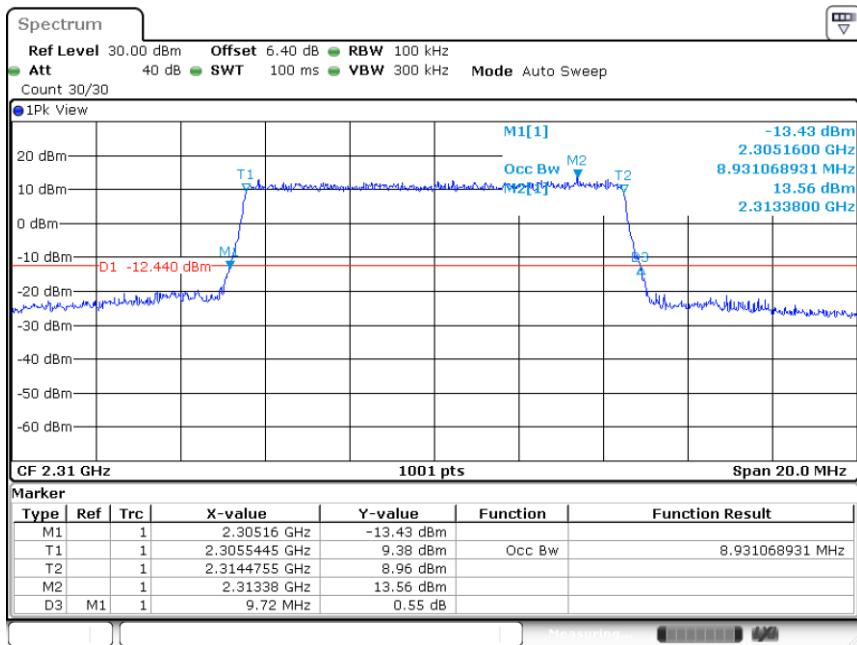
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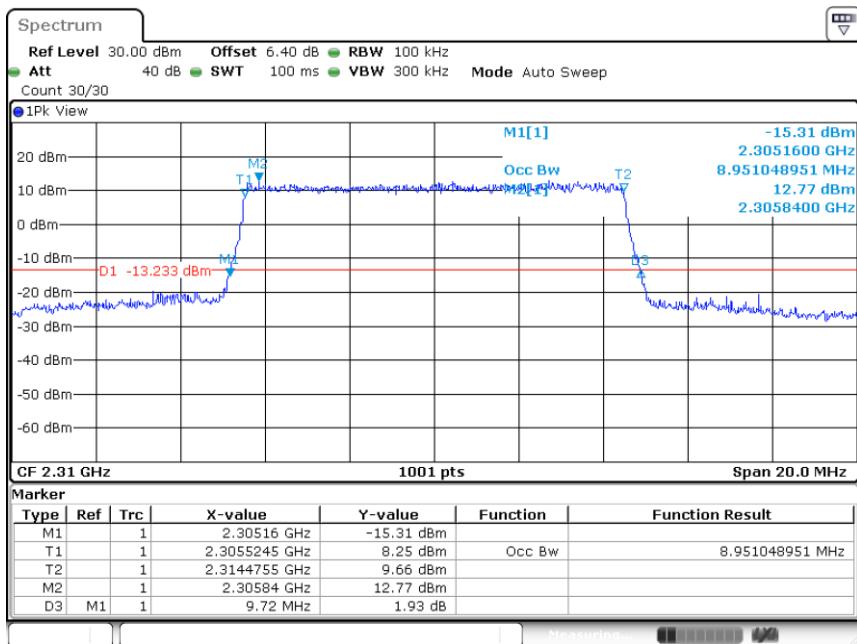


Band30-10MHz-64QAM-27710-50RB#0-8.931



Date: 21.AUG.2020 12:45:38

Band30-10MHz-16QAM-27710-50RB#0-8.951



Date: 21.AUG.2020 12:31:51

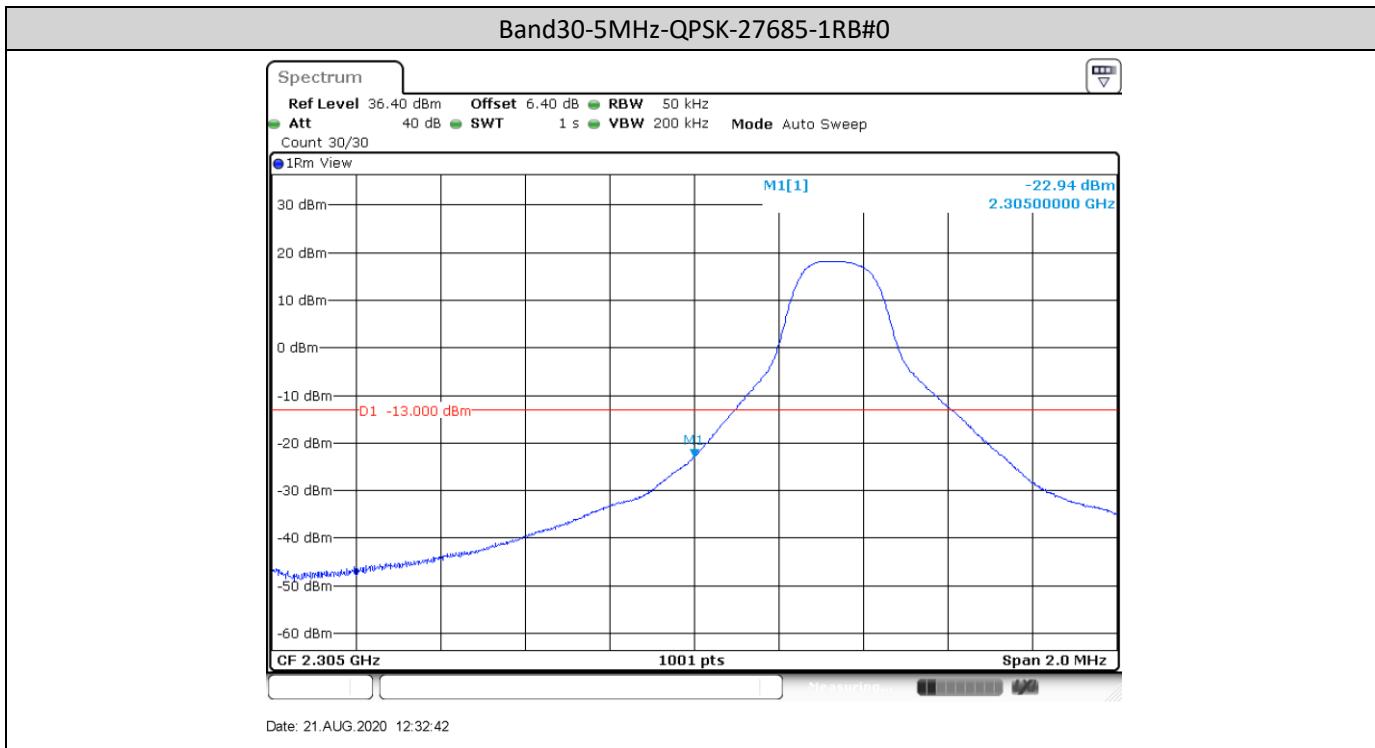
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## 5. Band Edge Compliance

### 5.1. Test Plots



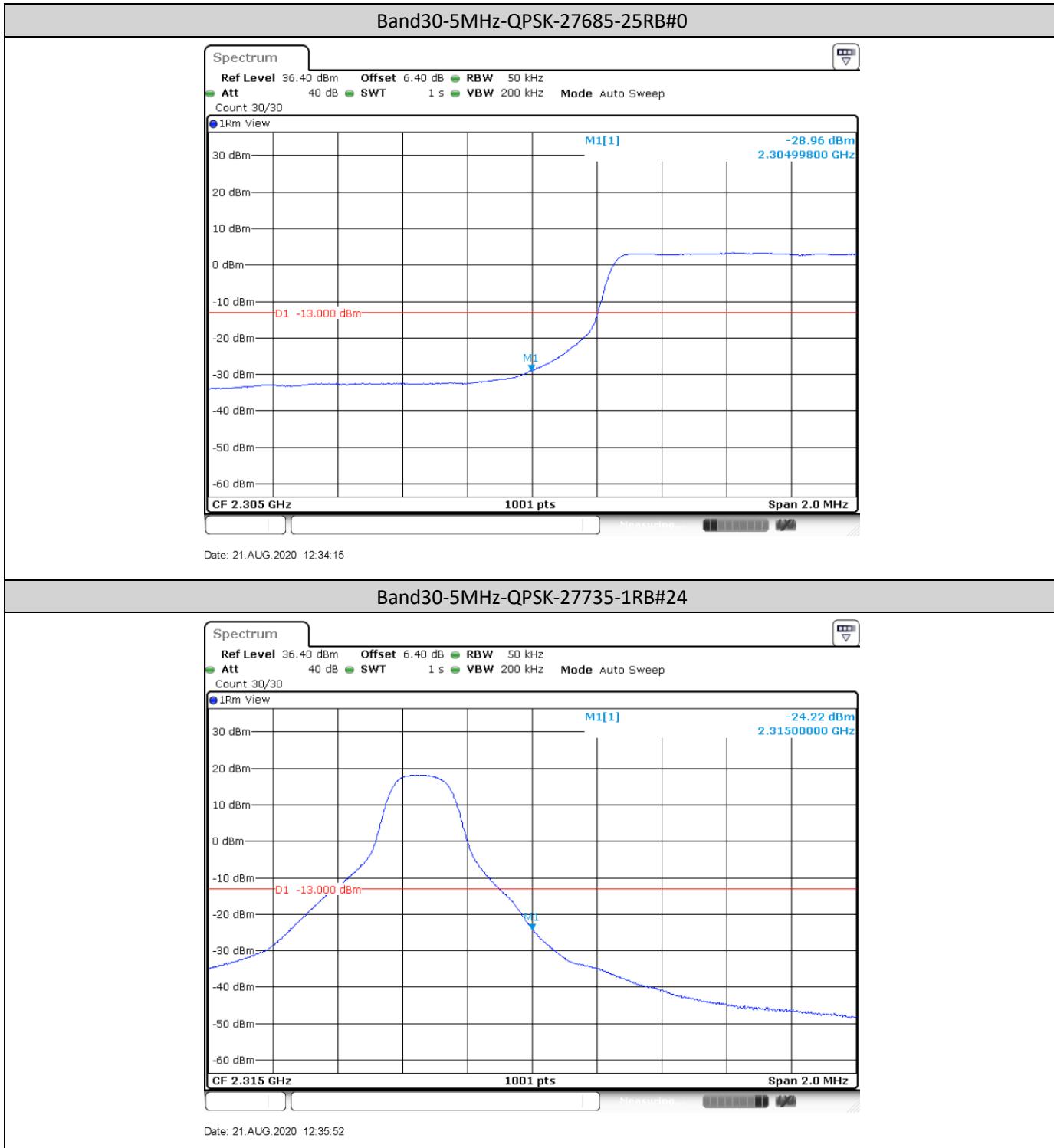
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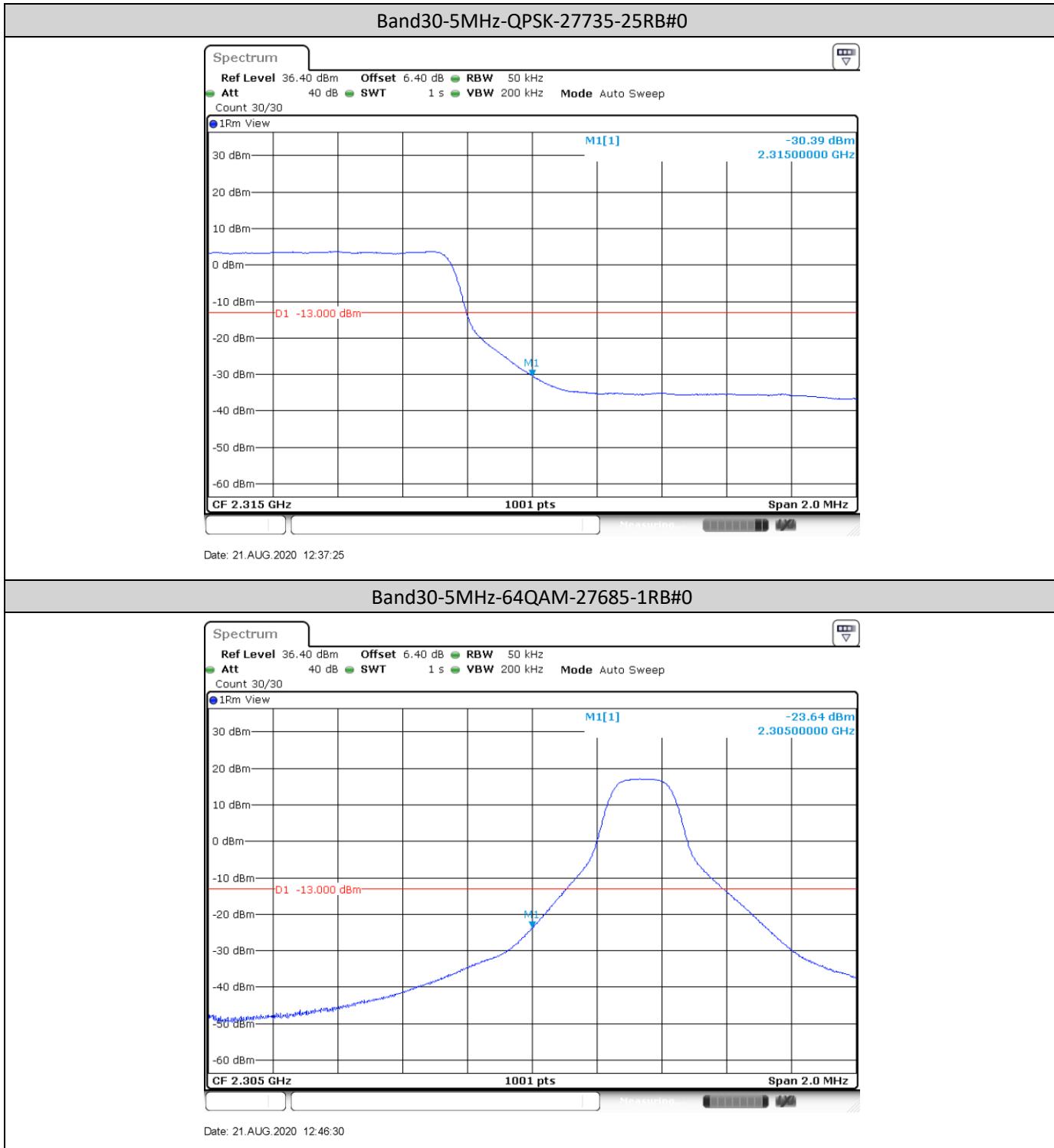
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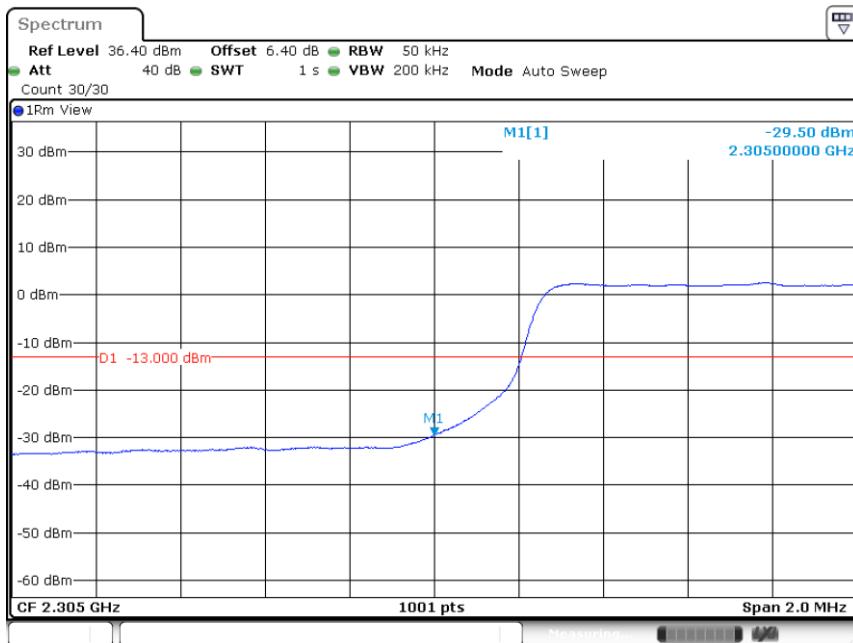
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## Band30-5MHz-64QAM-27685-25RB#0



Date: 21.AUG.2020 12:47:16

## Band30-5MHz-64QAM-27735-1RB#24



Date: 21.AUG.2020 12:48:07

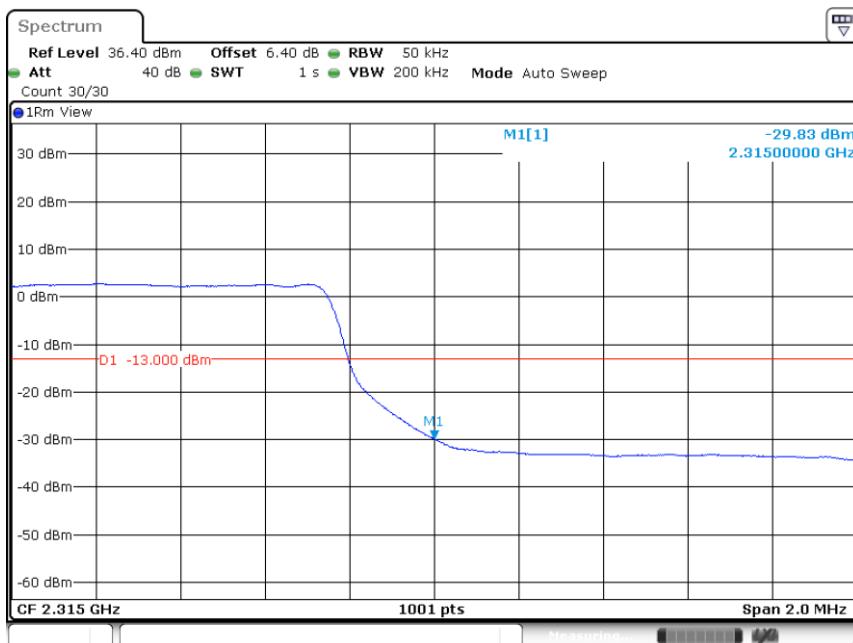
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## Band30-5MHz-64QAM-27735-25RB#0



Date: 21.AUG.2020 12:48:54

## Band30-5MHz-16QAM-27685-1RB#0



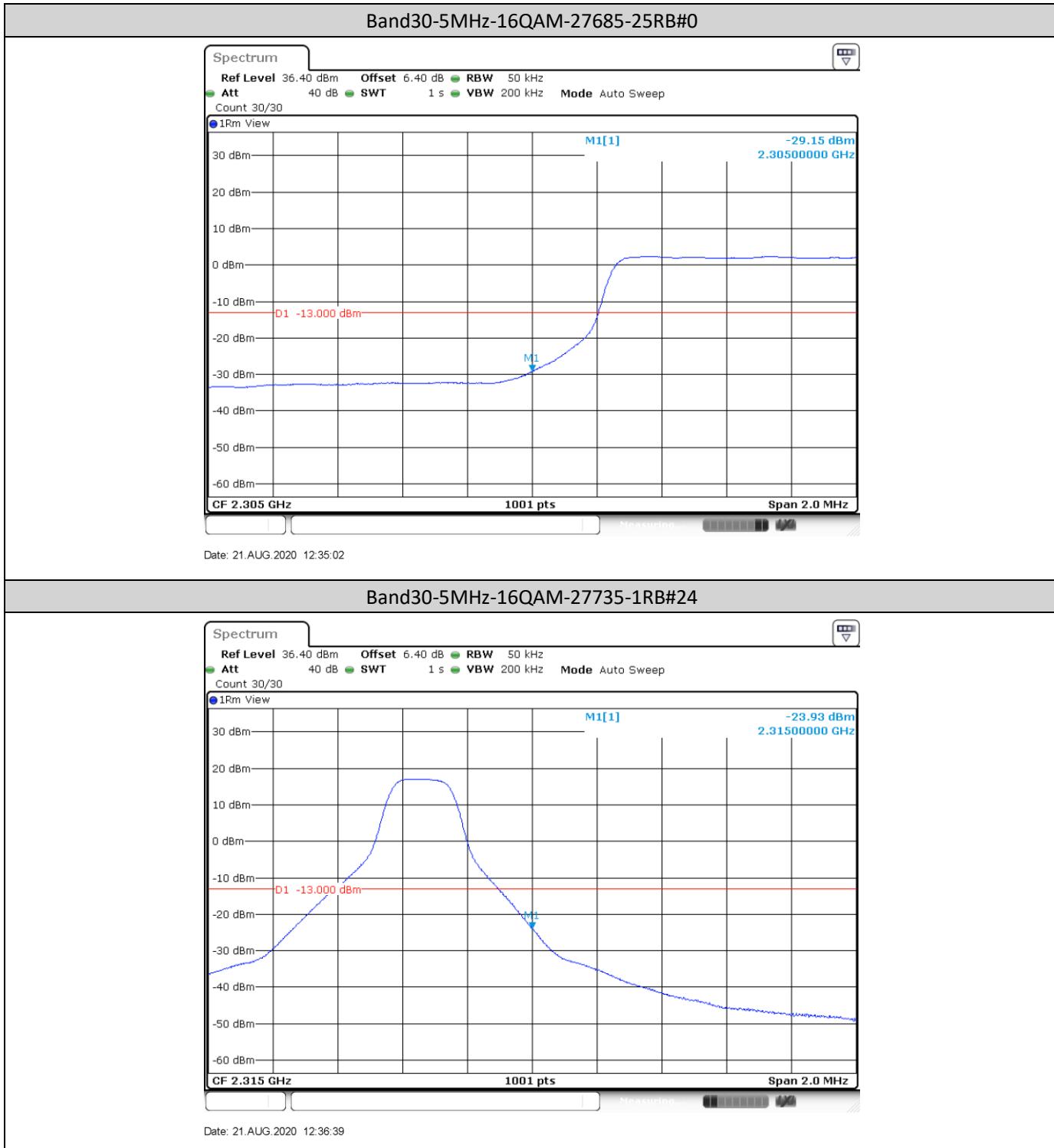
Date: 21.AUG.2020 12:33:29

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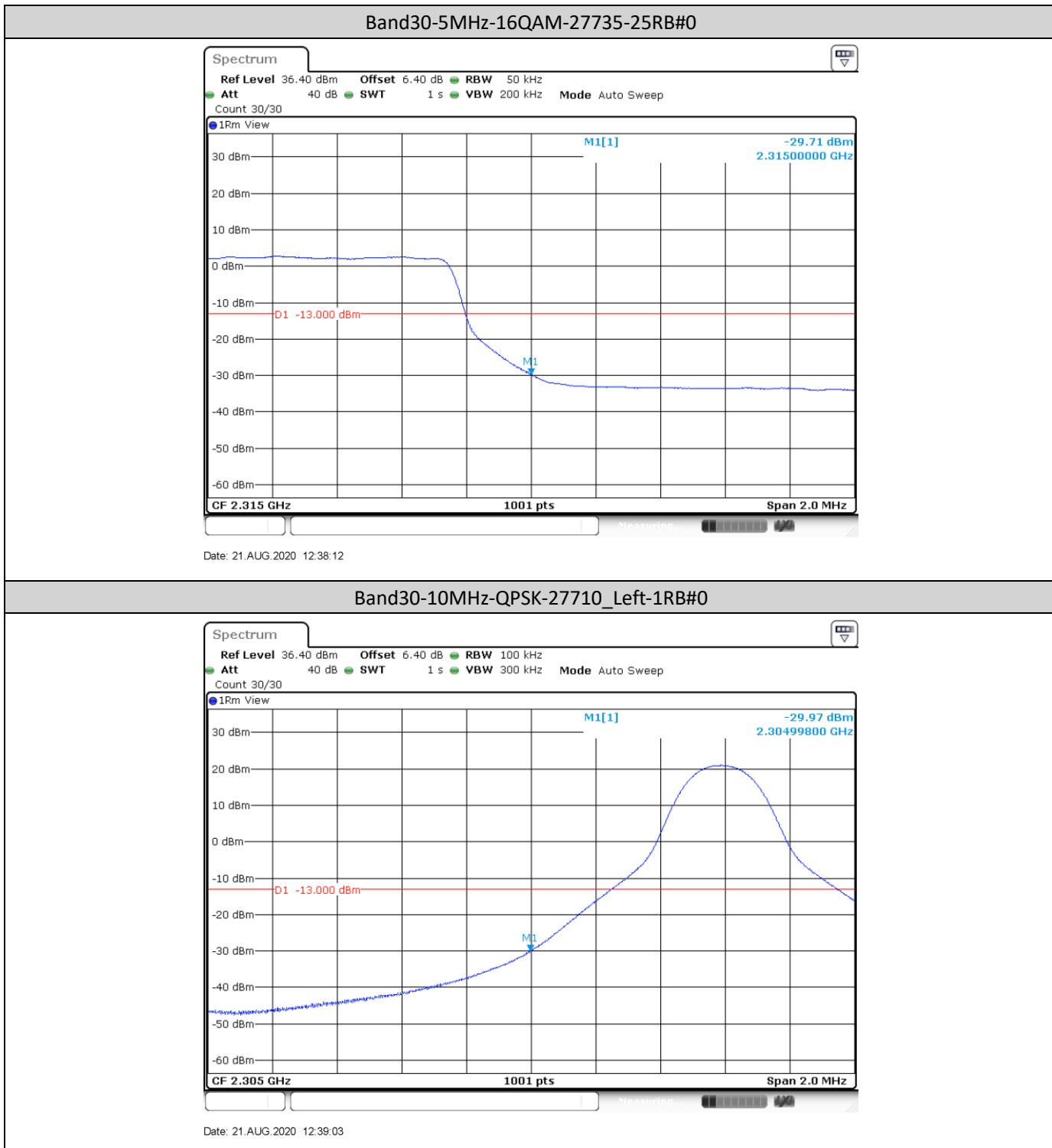
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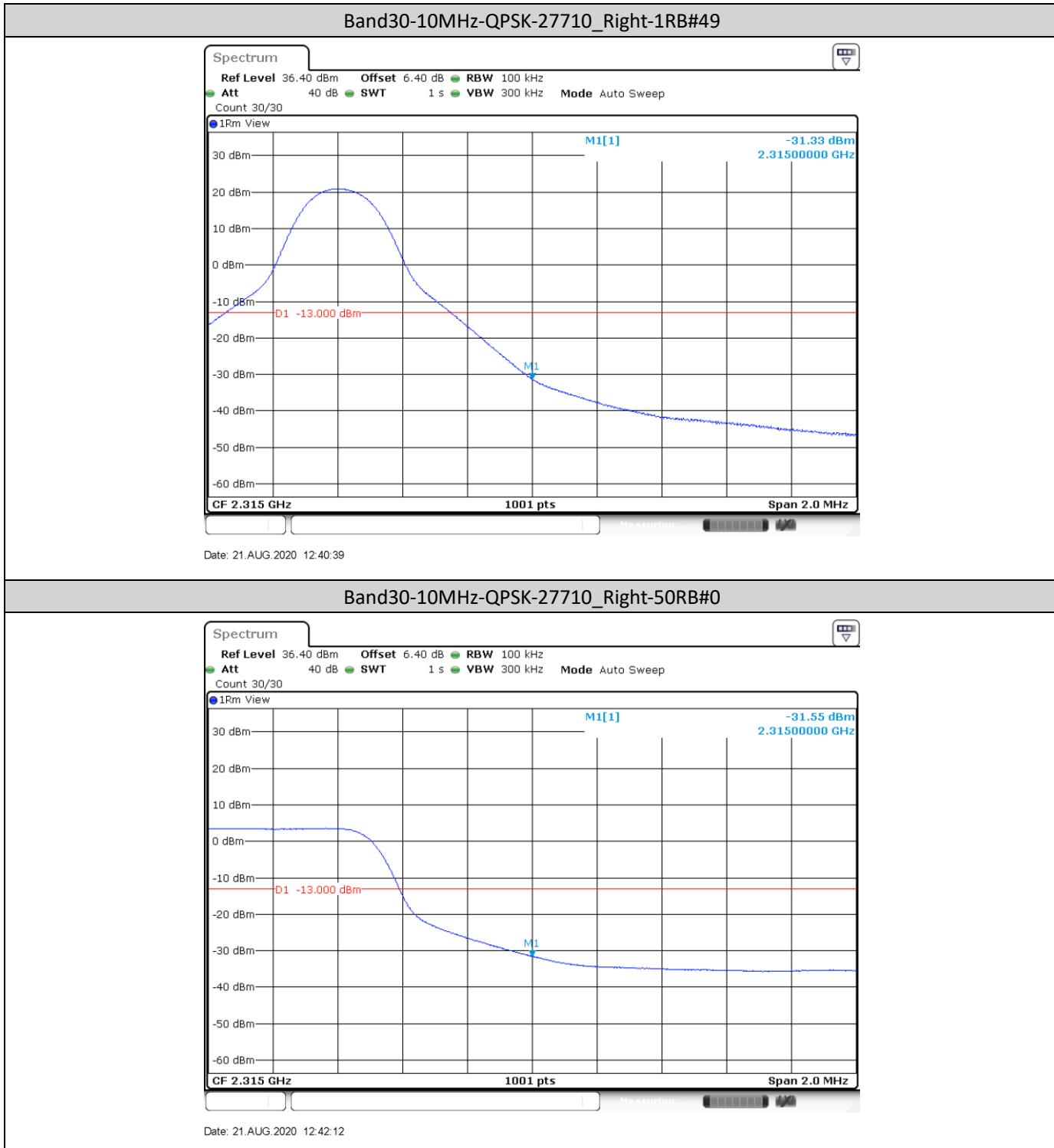
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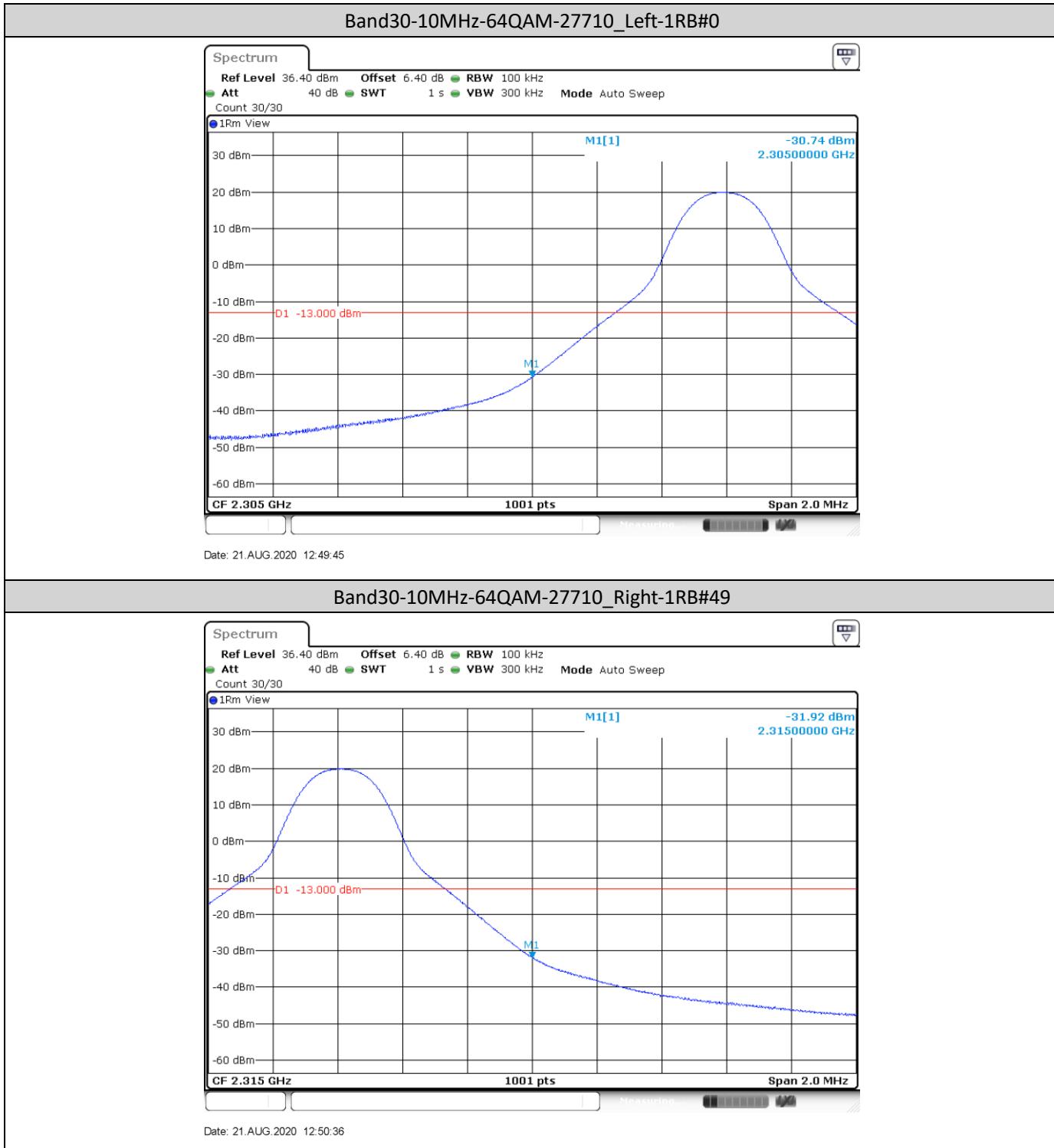
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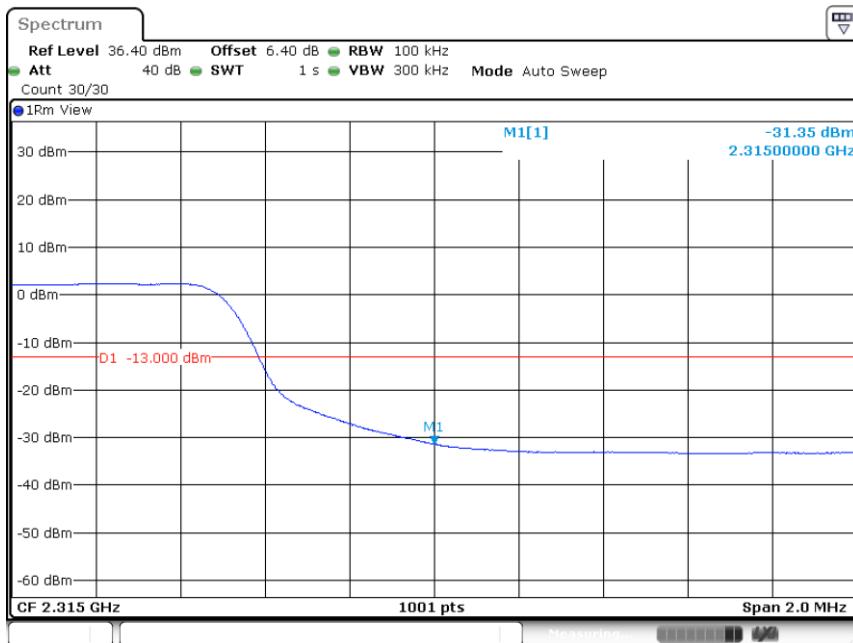
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## Band30-10MHz-64QAM-27710\_Right-50RB#0



Date: 21.AUG.2020 12:51:22

## Band30-10MHz-16QAM-27710\_Left-1RB#0



Date: 21.AUG.2020 12:39:49

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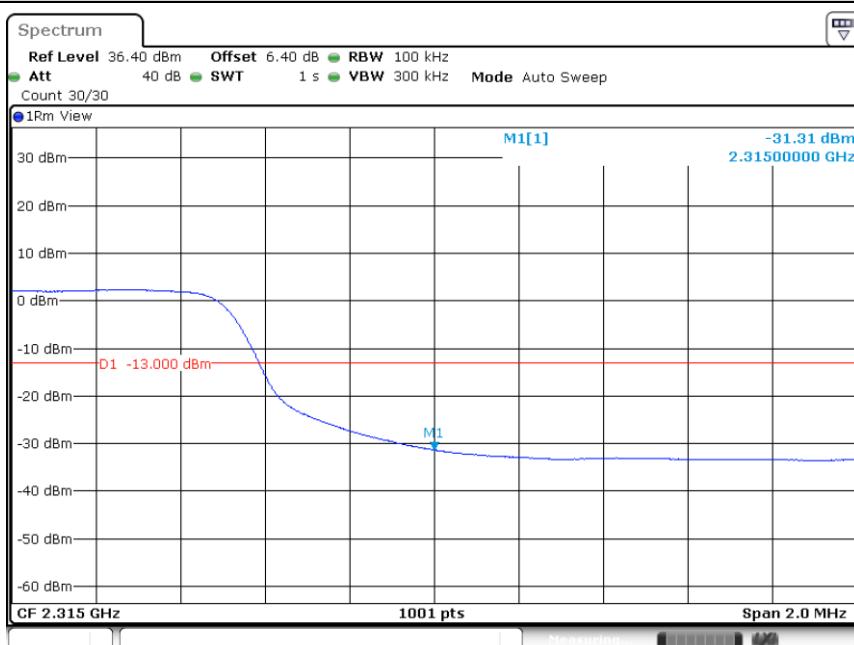
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## Band30-10MHz-16QAM-27710\_Right-1RB#49



Date: 21.AUG.2020 12:41:26

## Band30-10MHz-16QAM-27710\_Right-50RB#0



Date: 21.AUG.2020 12:42:59

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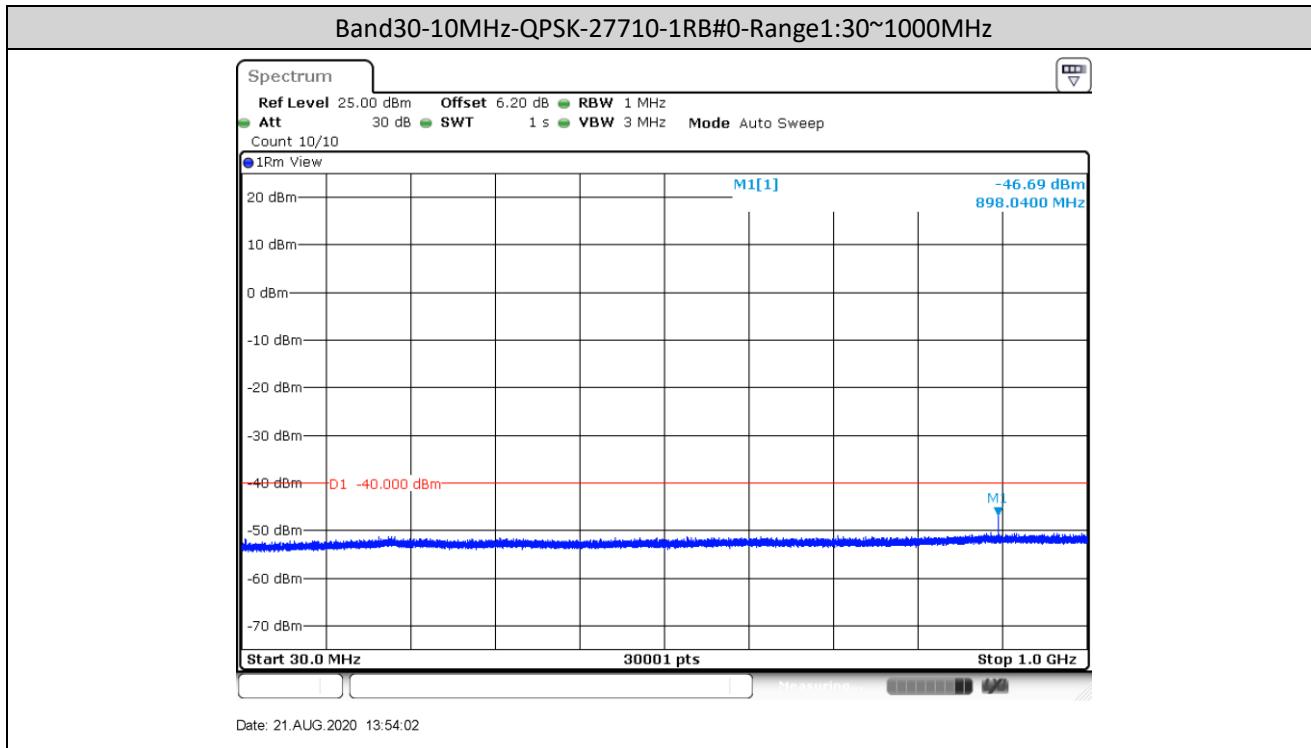
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## 6. Spurious Emission at Antenna Terminal

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

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

### 6.1. Test Plots



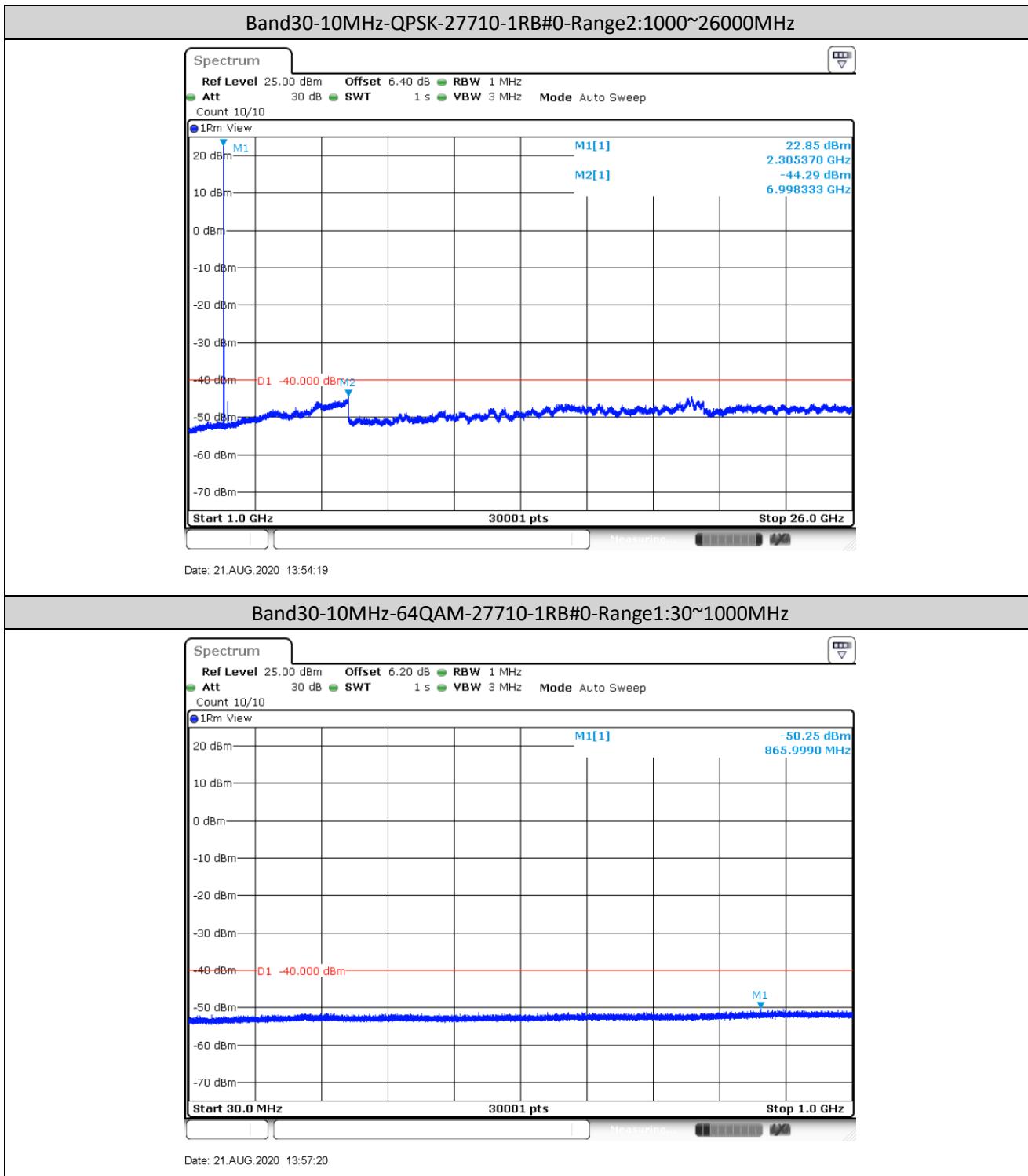
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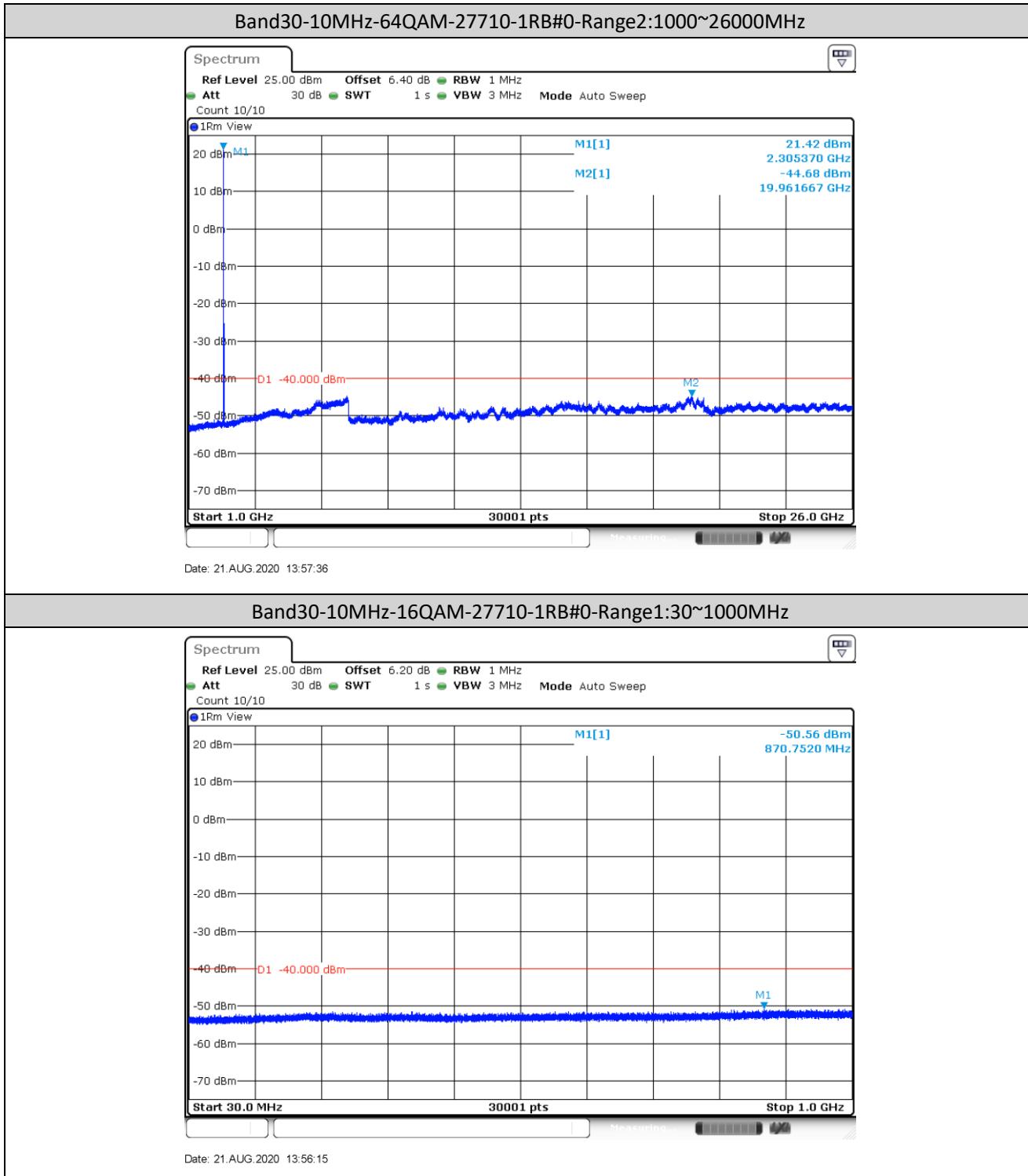


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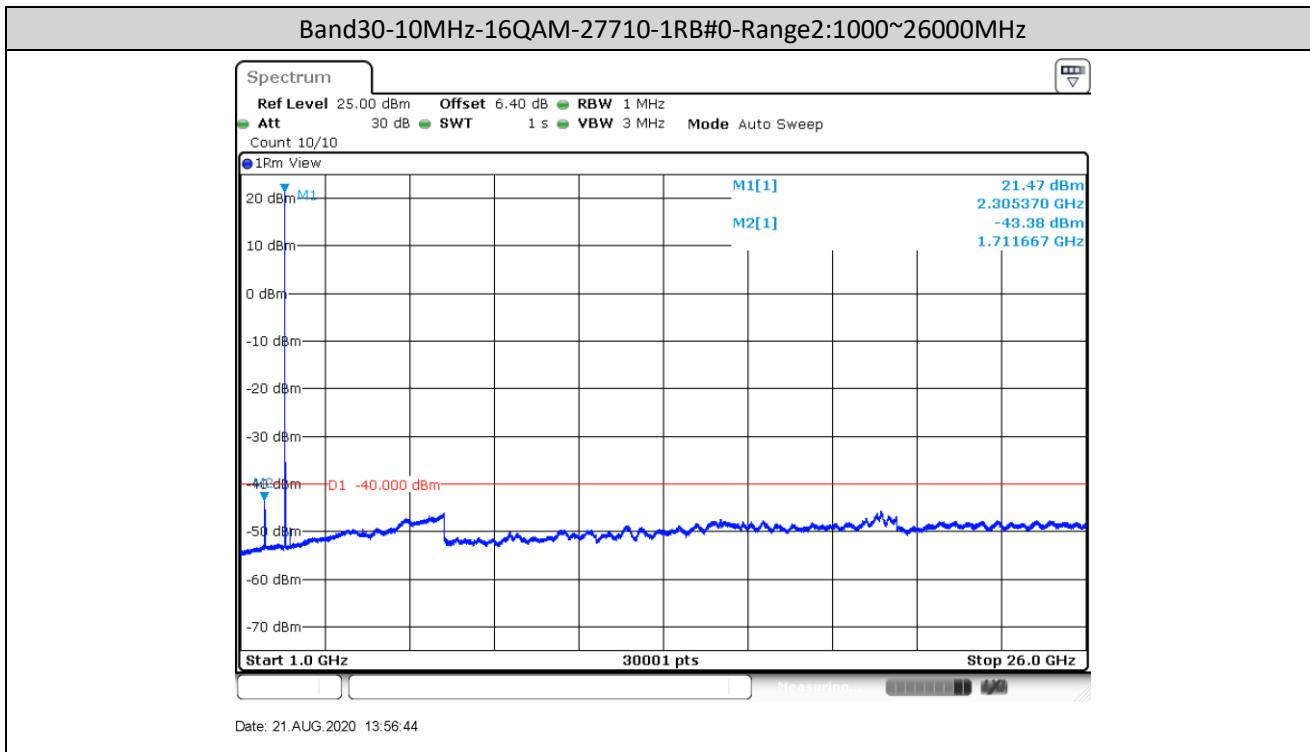


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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 10MHz

#### 7.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
74.1857	-65.93	-40.00	25.93	187	130	Vertical
376.6953	-68.85	-40.00	28.85	321	309	Vertical
999.8545	-56.49	-40.00	16.49	258	76	Vertical
4611.0537	-47.09	-40.00	7.09	196	316	Vertical
6916.6306	-51.56	-40.00	11.56	234	93	Vertical
17982.4994	-47.64	-40.00	7.64	264	182	Vertical
44.6477	-64.21	-40.00	24.21	251	141	Horizontal
238.6089	-68.30	-40.00	28.30	208	302	Horizontal
607.2274	-63.18	-40.00	23.18	185	213	Horizontal
4611.0537	-50.82	-40.00	10.82	196	333	Horizontal
10583.2528	-51.98	-40.00	11.98	184	84	Horizontal
16383.4461	-46.45	-40.00	6.45	321	265	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 was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-11.50	-0.004978	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-12.40	-0.005368	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-1.80	-0.000779	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	VL	NT	6.00	0.002597	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	VN	NT	1.30	0.000563	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	VH	NT	-1.40	-0.000606	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	VL	NT	3.70	0.001602	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	VN	NT	-7.90	-0.003420	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	VH	NT	0.80	0.000346	±2.5	PASS

### 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	7.10	0.003074	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	5.50	0.002381	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	6.80	0.002944	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	2.30	0.000996	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	6.30	0.002727	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-6.00	-0.002597	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-11.90	-0.005152	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-4.70	-0.002035	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	NV	-30	-6.90	-0.002987	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	NV	-20	1.90	0.000823	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	NV	0	3.80	0.001645	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	NV	10	2.90	0.001255	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	NV	20	0.60	0.000260	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	NV	30	7.10	0.003074	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	NV	40	-10.90	-0.004719	±2.5	PASS
Band30	10MHz	64QAM	27710	50RB#0	NV	50	0.30	0.000130	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	-30	-4.40	-0.001905	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	-20	-11.00	-0.004762	±2.5	PASS

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Band30	10MHz	16QAM	27710	50RB#0	NV	0	5.50	0.002381	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	10	-4.90	-0.002121	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	20	9.20	0.003983	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	30	1.20	0.000519	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	40	-6.10	-0.002641	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	50	-10.50	-0.004545	±2.5	PASS

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The End

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SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057

t (86-755) 26012053 f (86-755) 26710594

[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594