

# Appendix B

## WCDMA Band II & V



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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	22.45	20.35	33.00	PASS
Band II	9400	22.68	20.58	33.00	PASS
Band II	9538	22.50	20.40	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	22.69	16.94	38.45	PASS
Band V	4182	22.75	17.00	38.45	PASS
Band V	4233	22.84	17.09	38.45	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$$

$$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$$



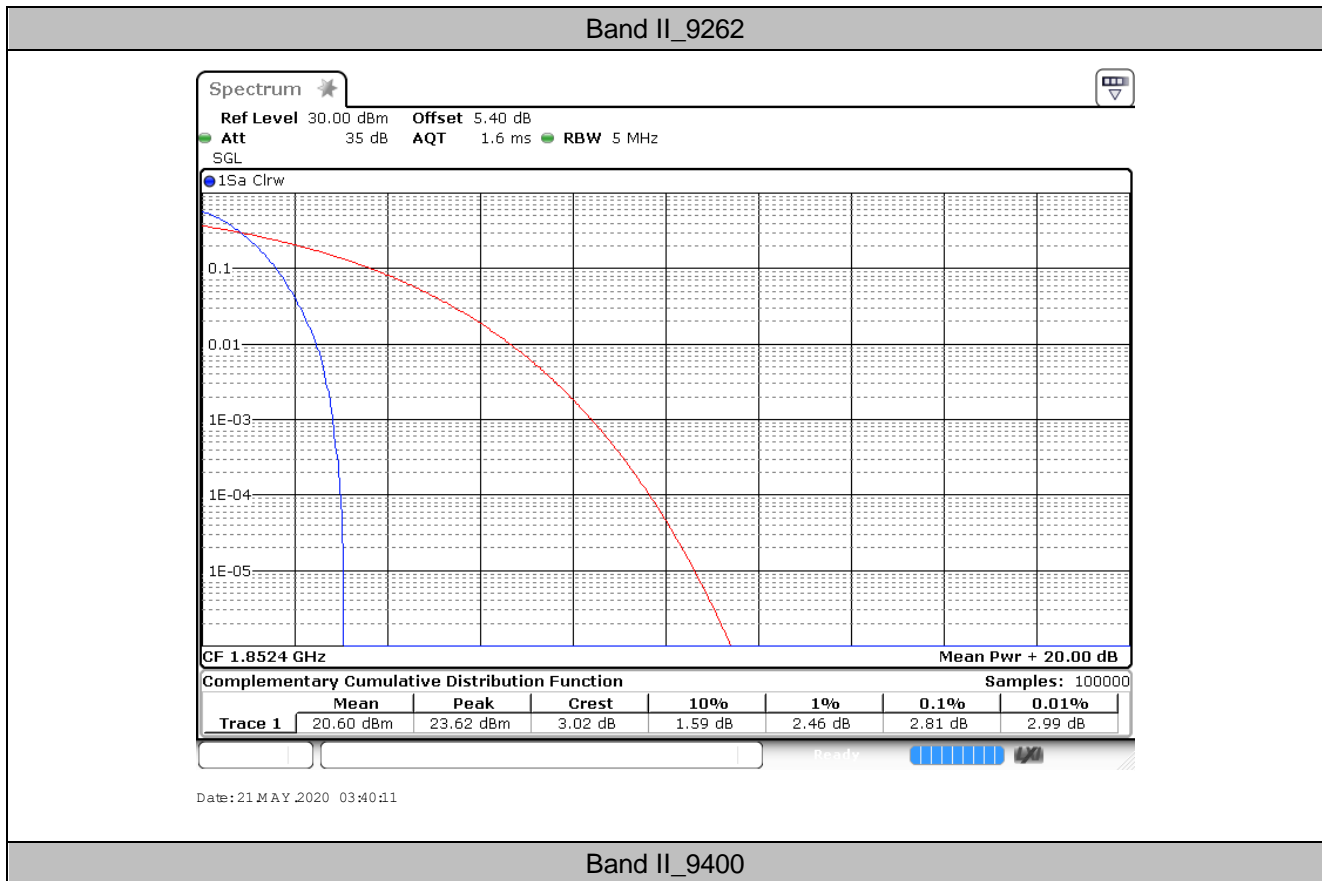
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

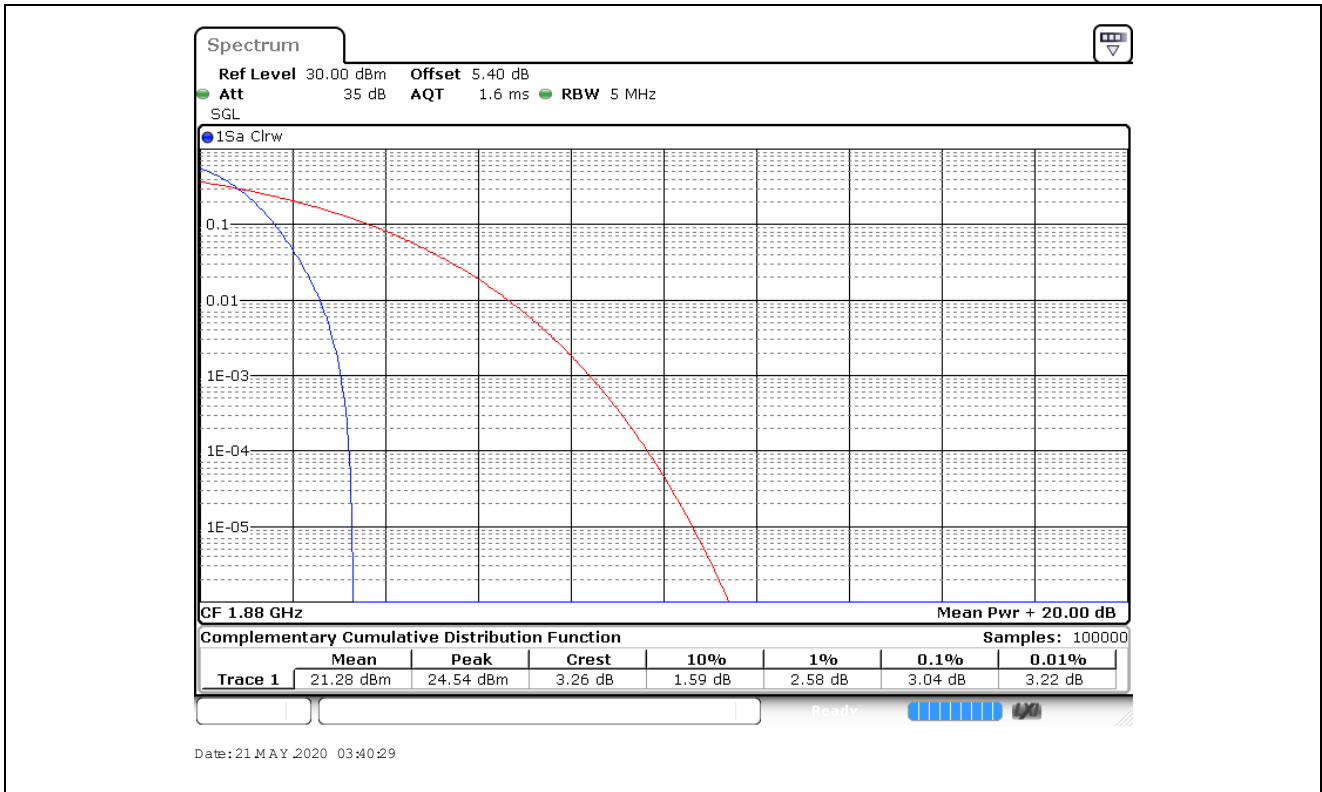
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.81	13	PASS
Band II	9400	3.04	13	PASS
Band II	9538	2.67	13	PASS
Band V	4132	2.78	13	PASS
Band V	4182	3.19	13	PASS
Band V	4233	3.01	13	PASS

### 2.2. Test Plots

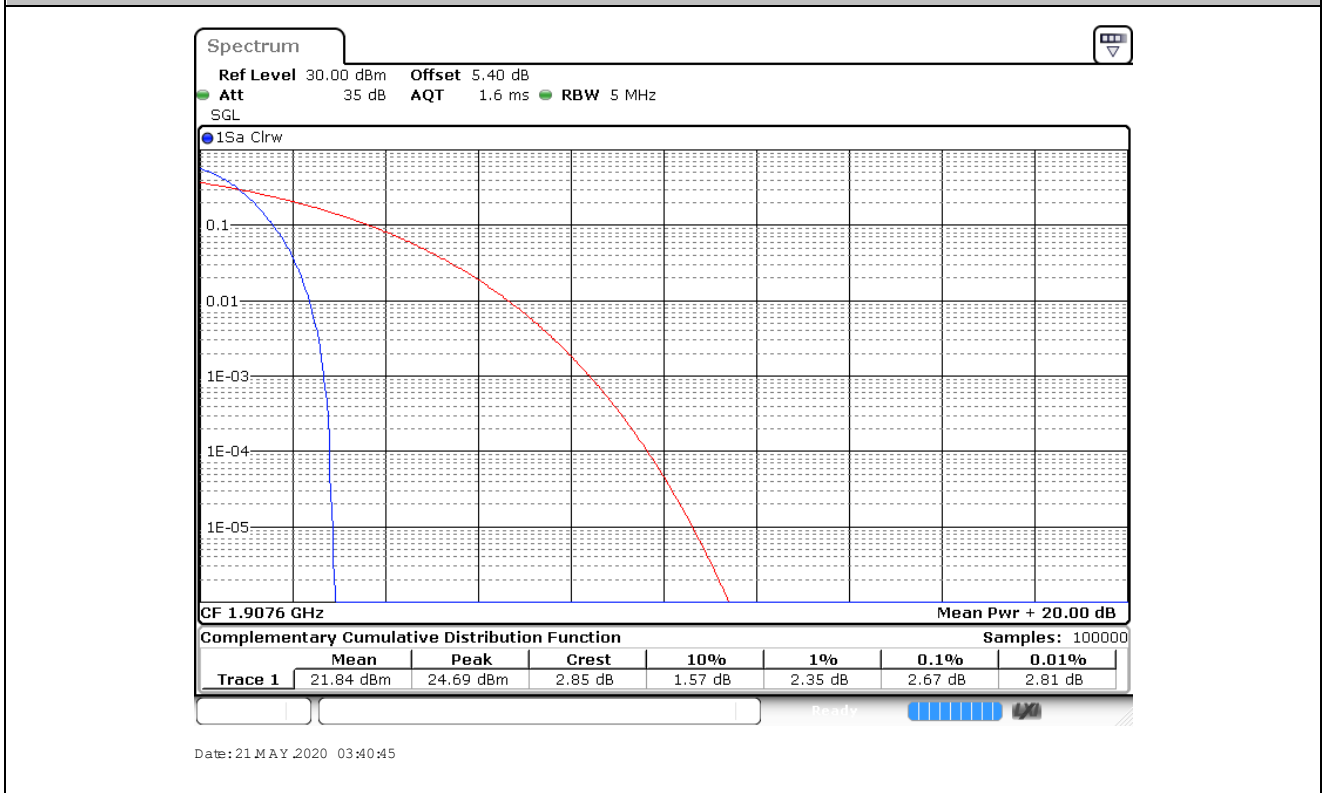


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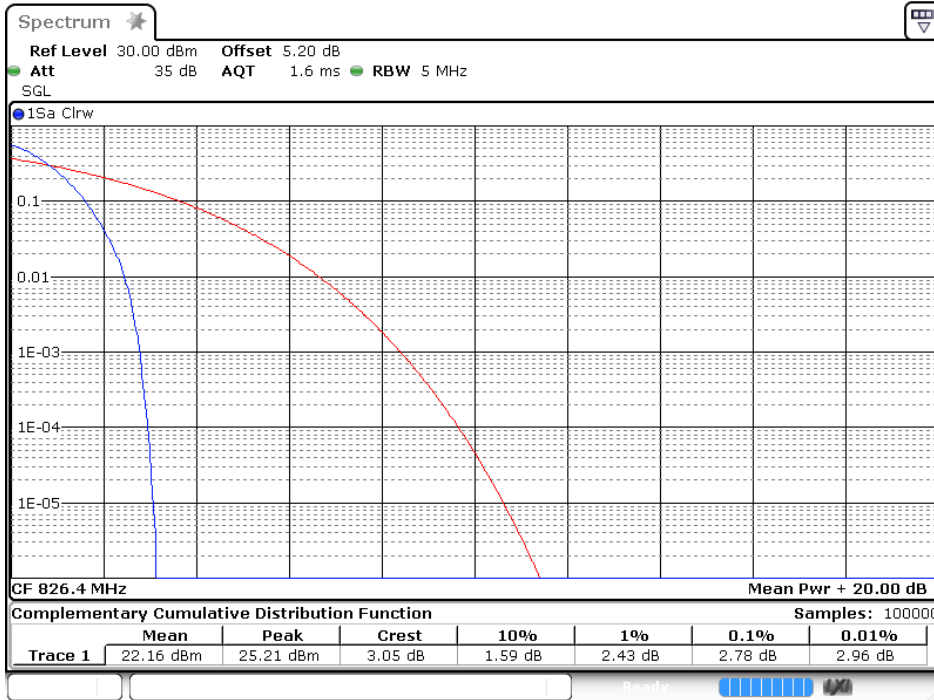


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Band V\_4132



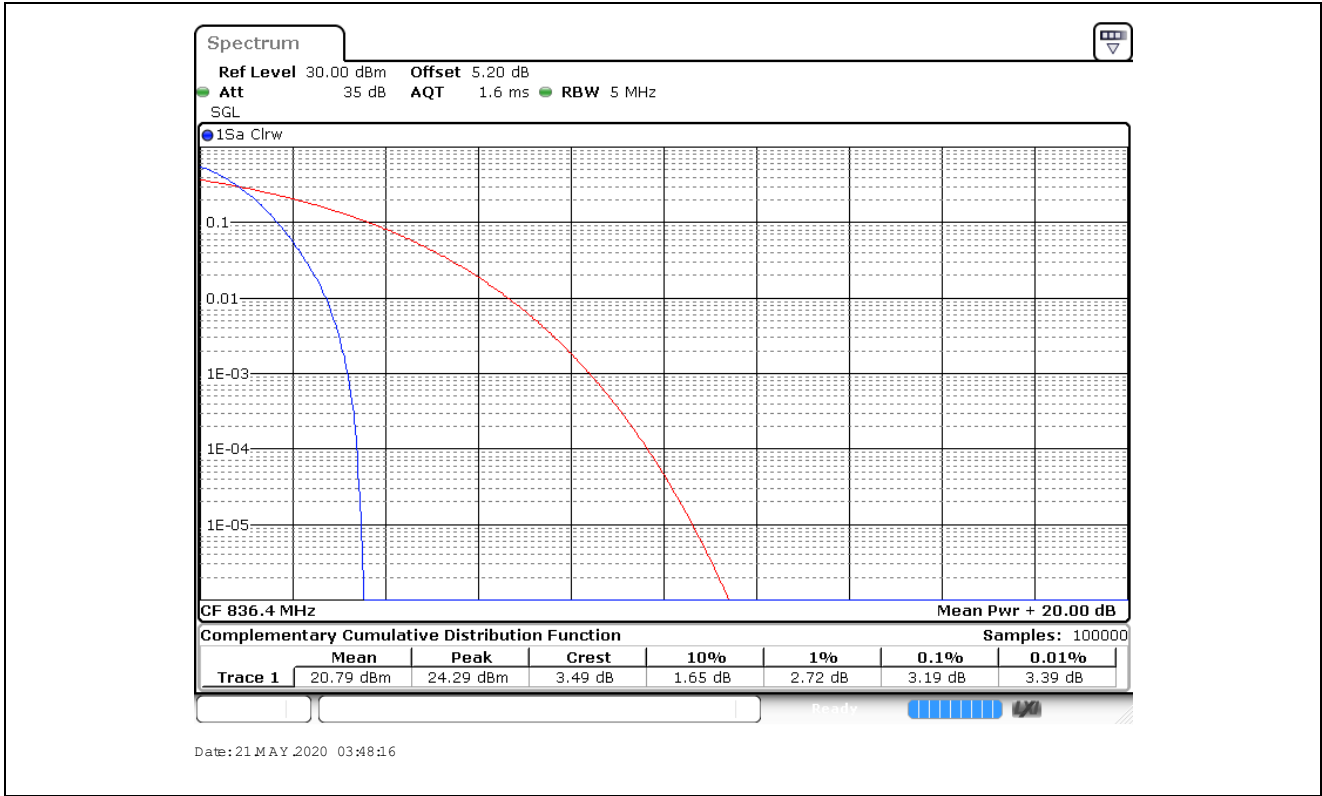
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Band V\_4182

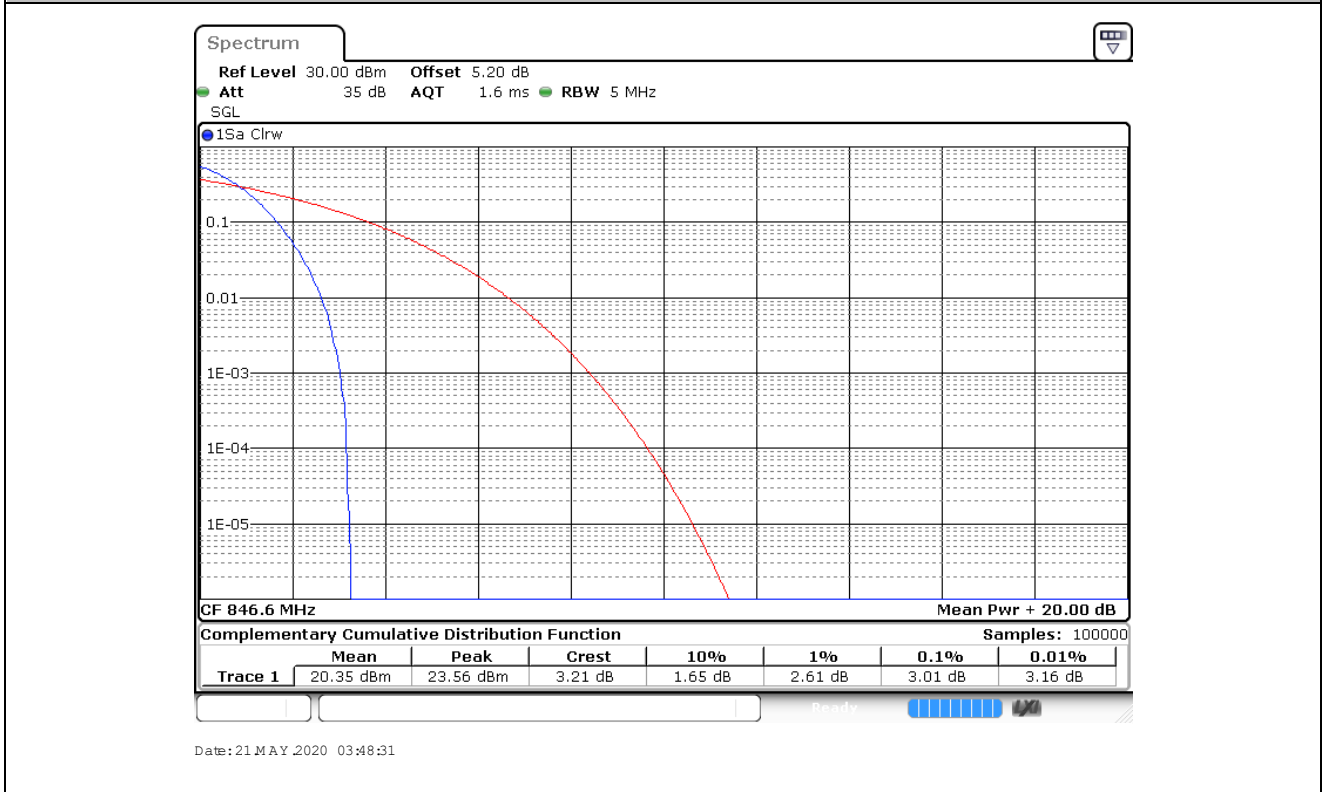


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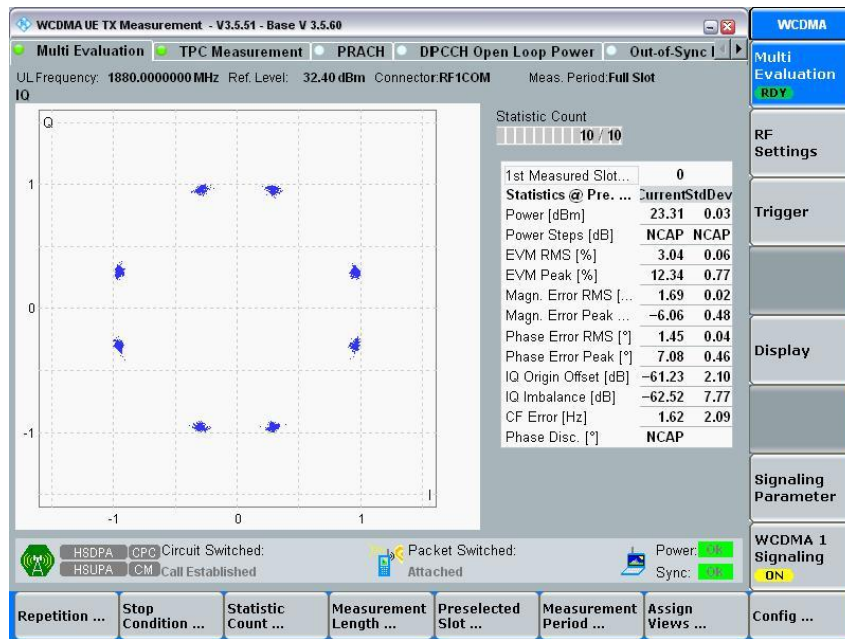
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### 3. Modulation Characteristics

#### 3.1. Test Band = WCDMA Band II

##### 3.1.1. Test Mode = UMTS/TM1

##### 3.1.1.1. Test Channel = MCH



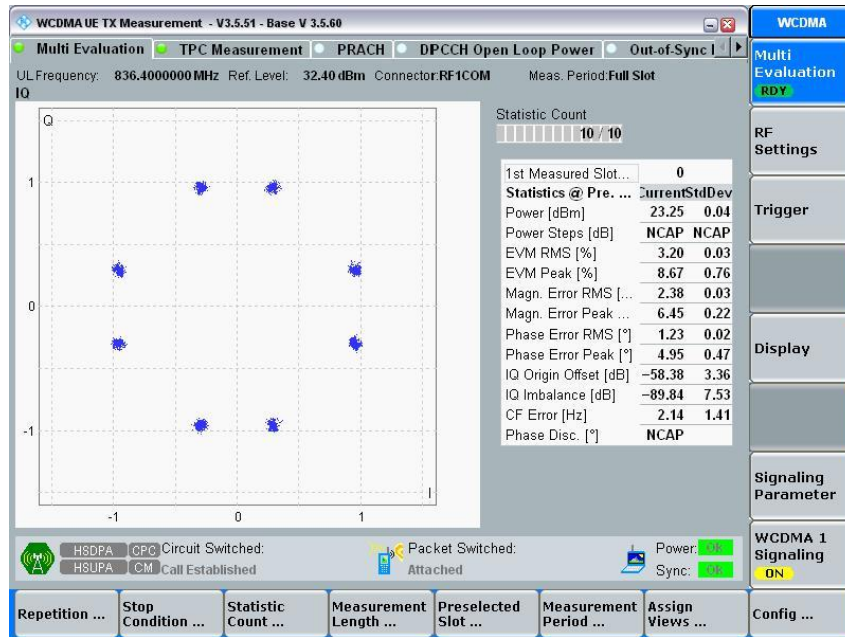
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### 3.2. Test Band = WCDMA Band V

#### 3.2.1. Test Mode = UMTS/TM1

##### 3.2.1.1. Test Channel = MCH



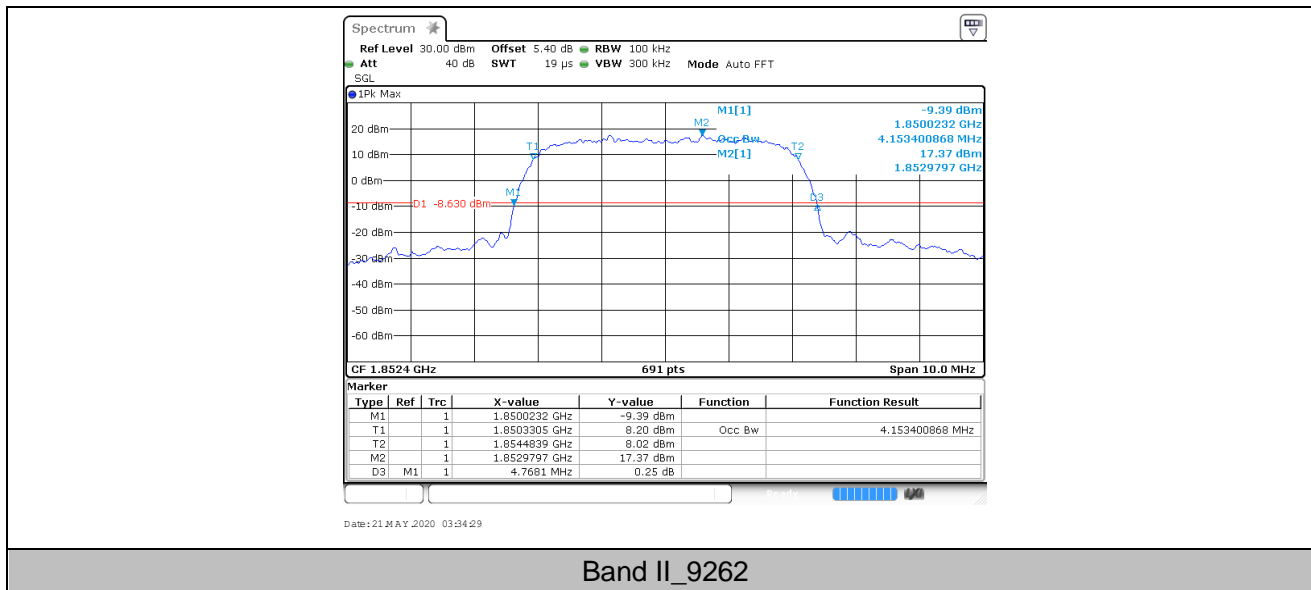
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

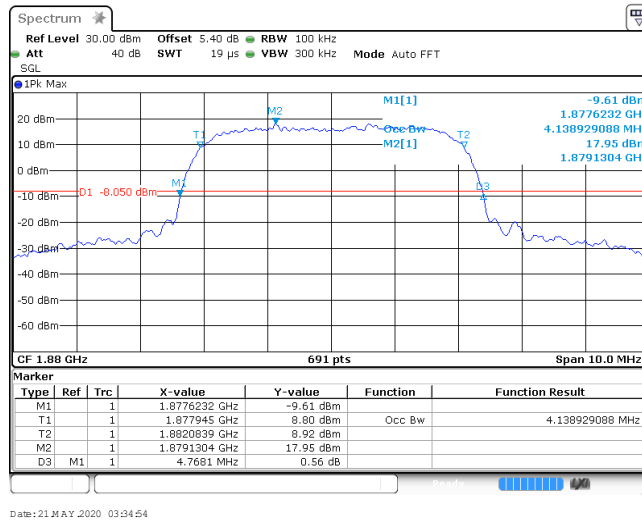
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4153.4	4768	---	PASS
Band II	9400	4138.9	4768	---	PASS
Band II	9538	4124.5	4768	---	PASS
Band V	4132	4138.9	4754	---	PASS
Band V	4182	4124.5	4725	---	PASS
Band V	4233	4124.5	4739	---	PASS

### 4.2. Test Plots



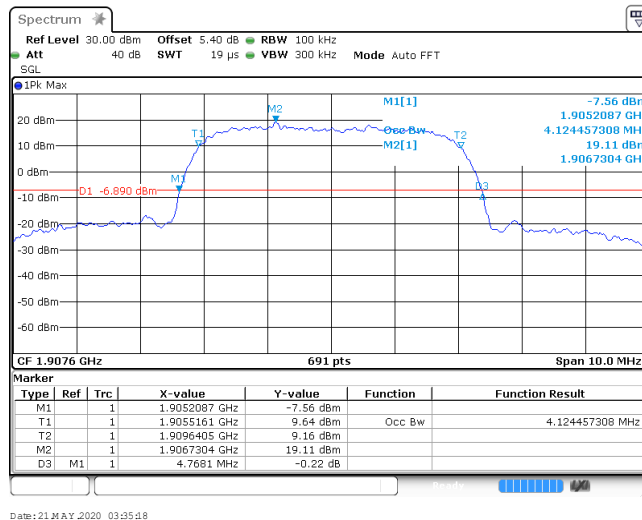
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**Band II\_9400**

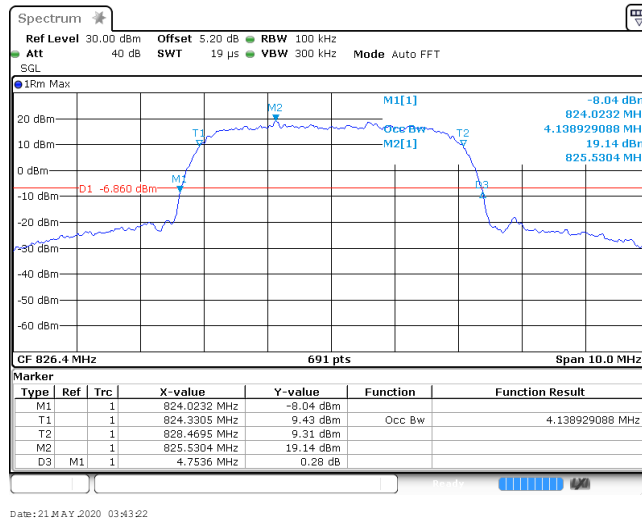


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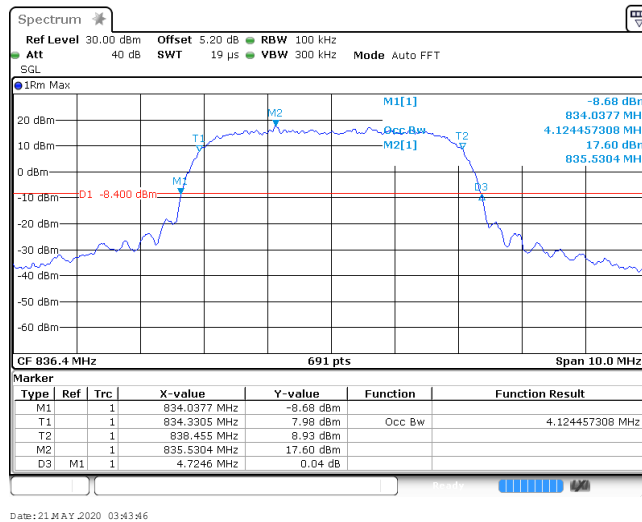
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**Band V\_4132**

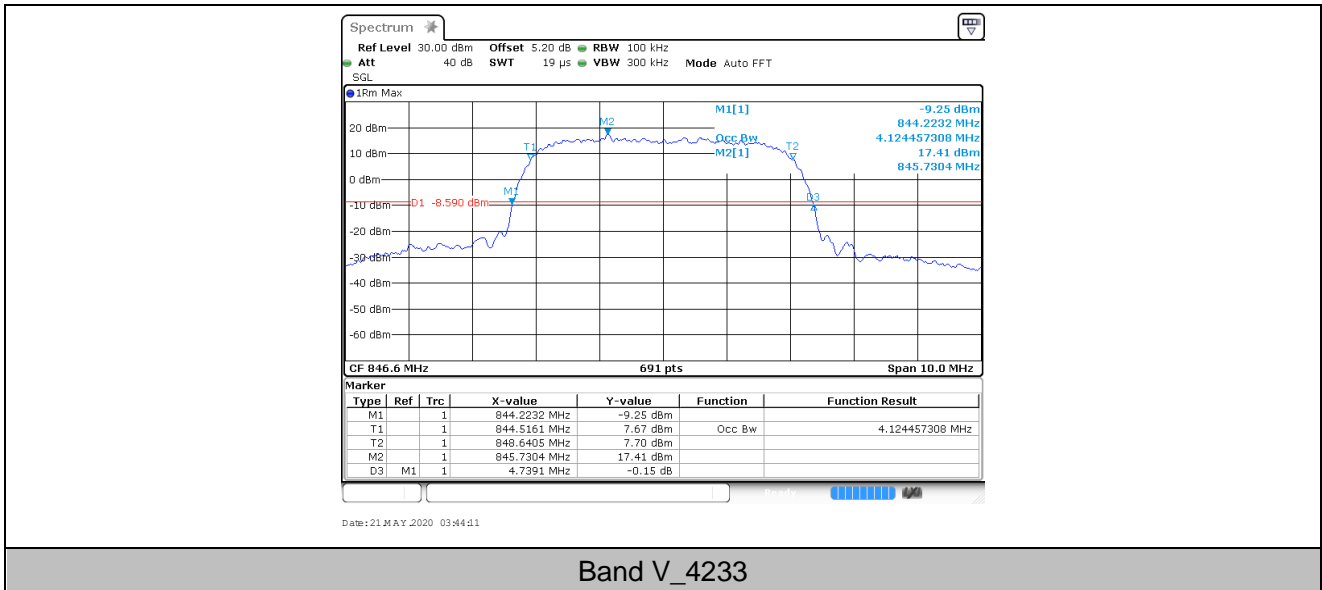


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Band V\_4233

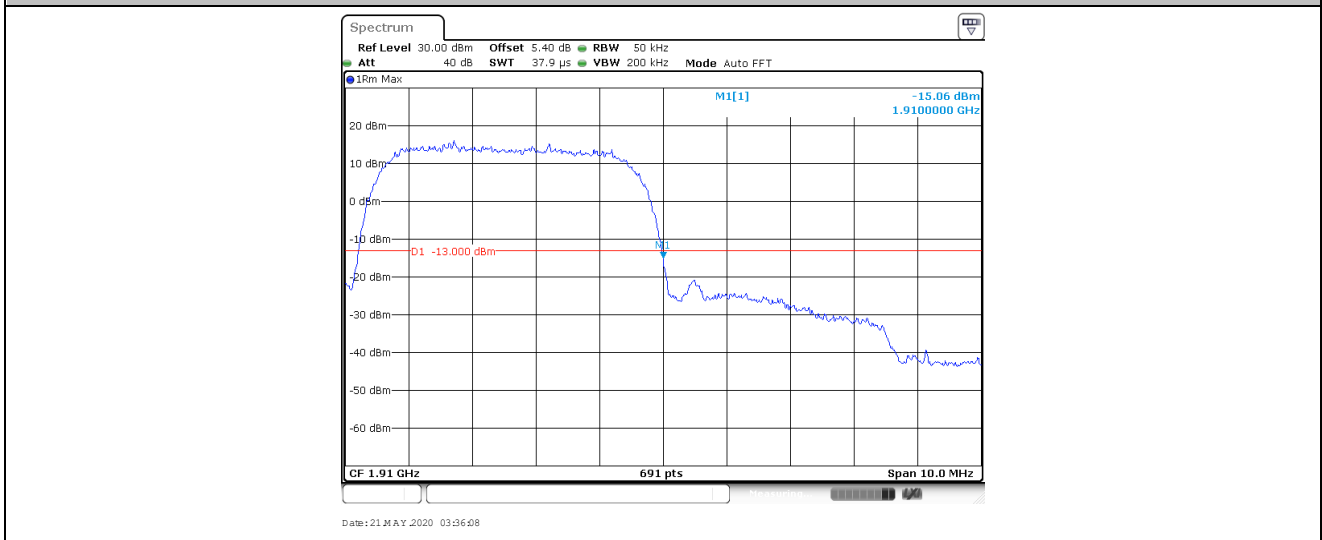
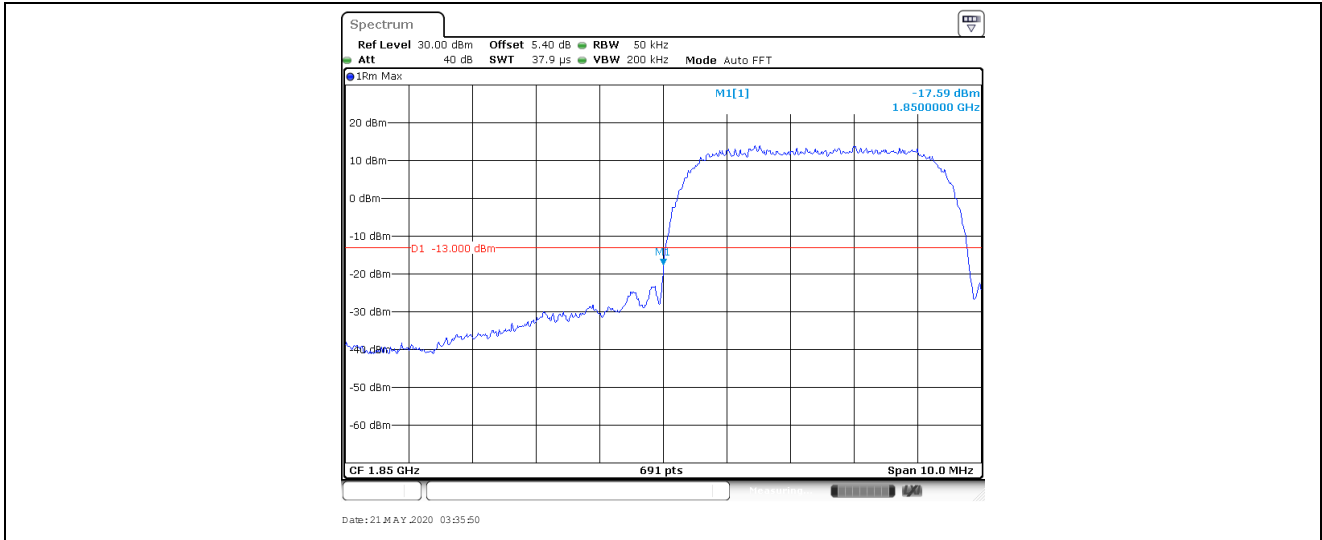


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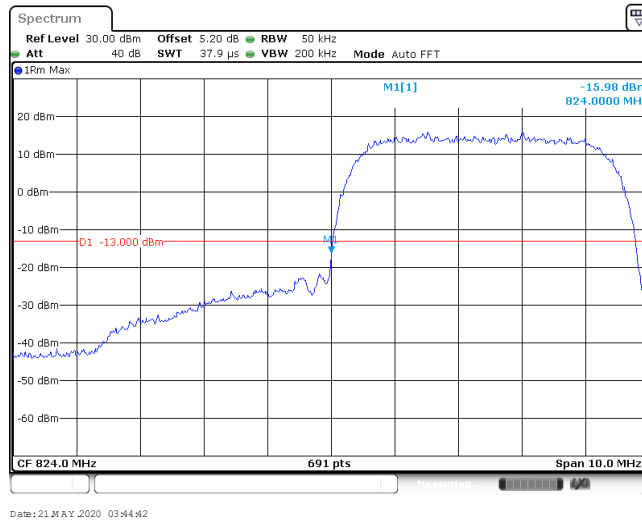
## 5. Band Edge Compliance

### 5.1. Test Plots

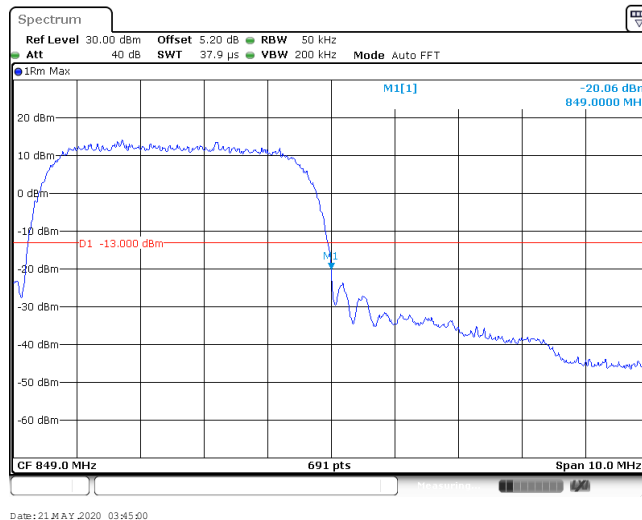


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**Band V\_4132**



**Band V\_4233**



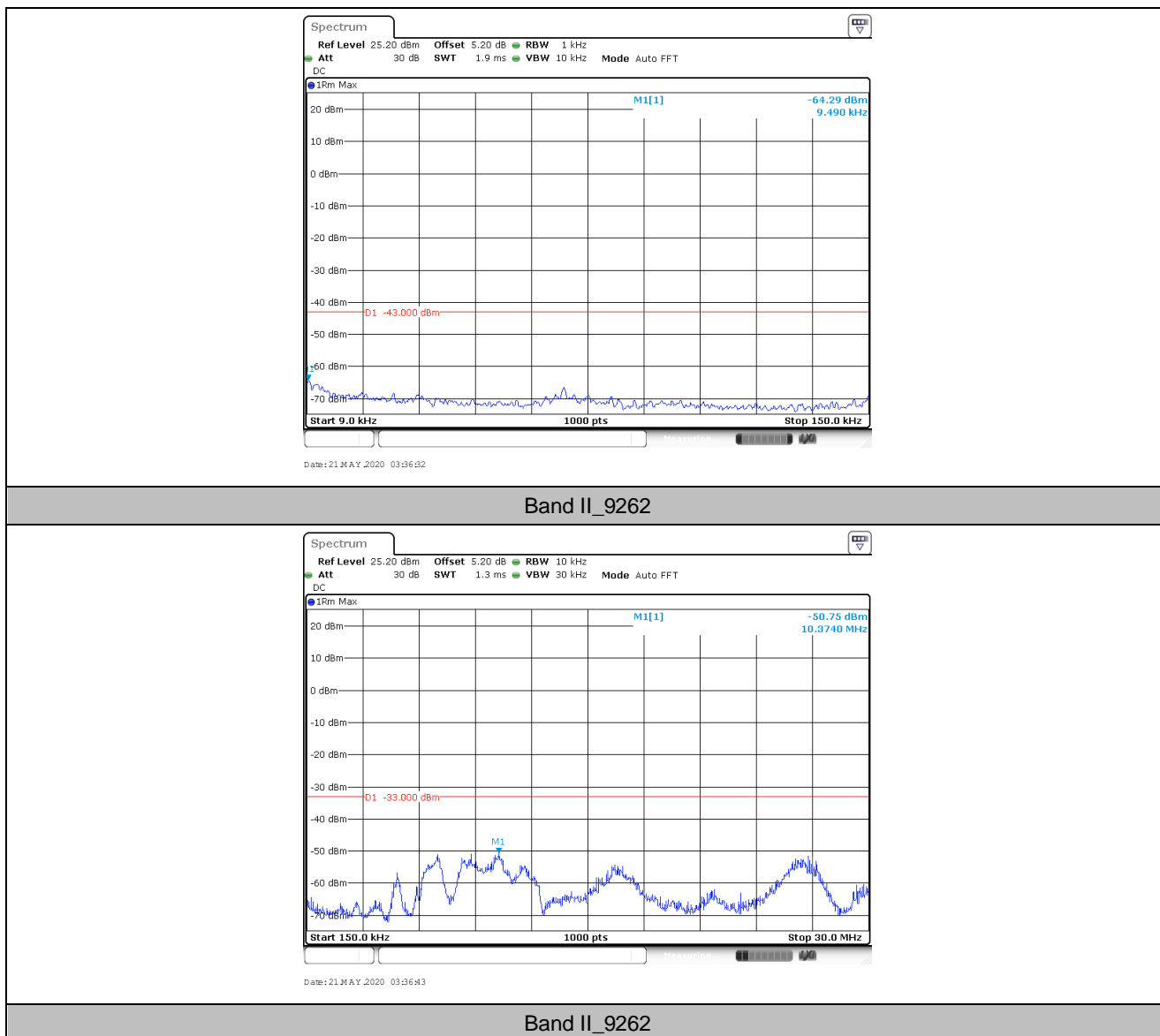
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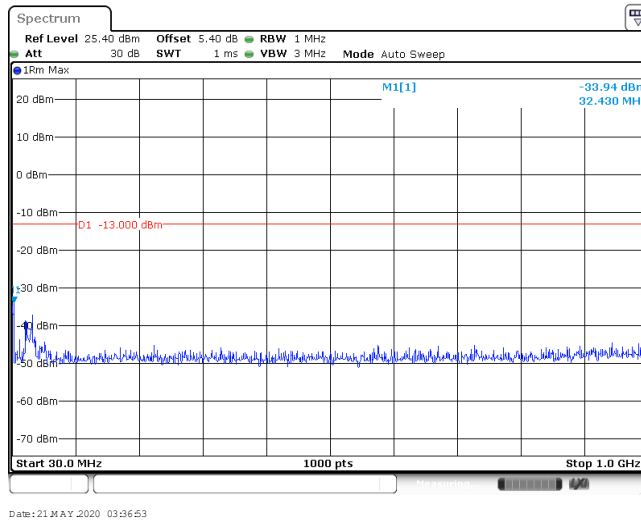
## 6. Spurious Emission at Antenna Terminal

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  $< RBW/2$  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.

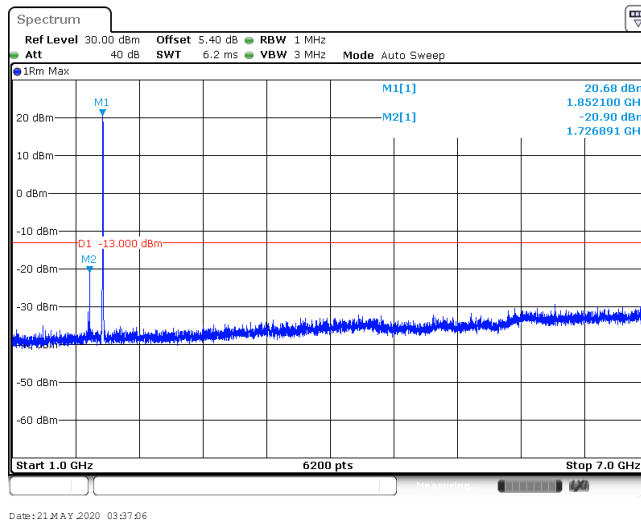
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots





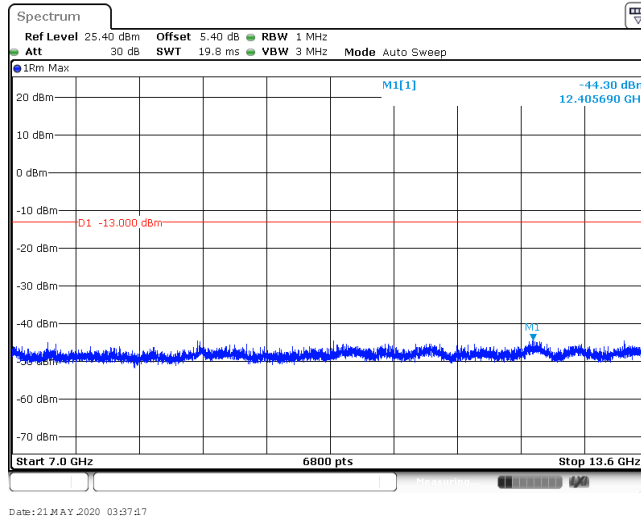
Band II\_9262



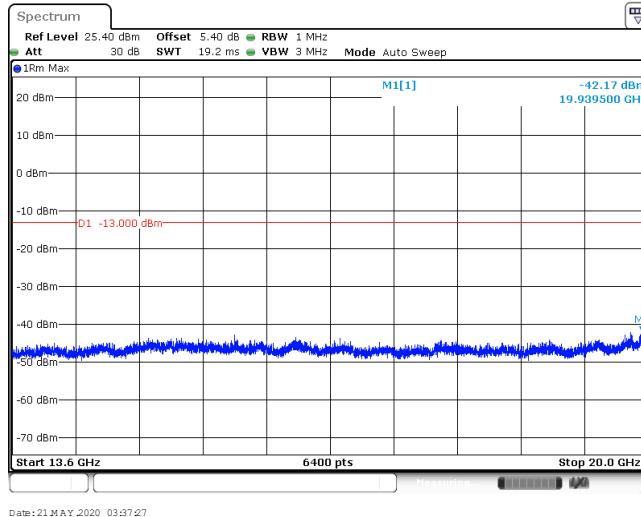
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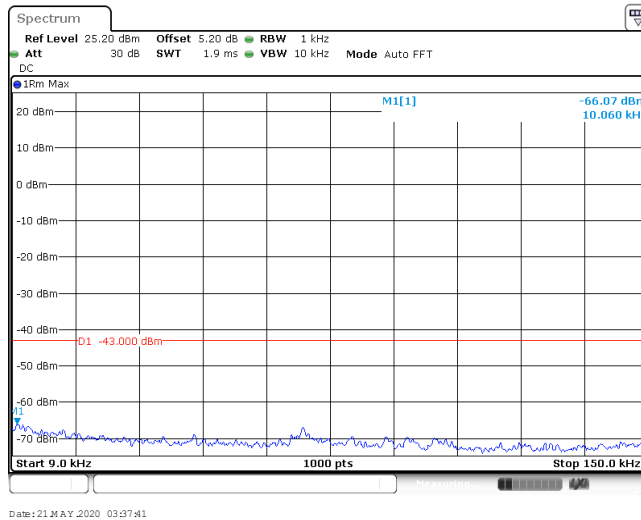


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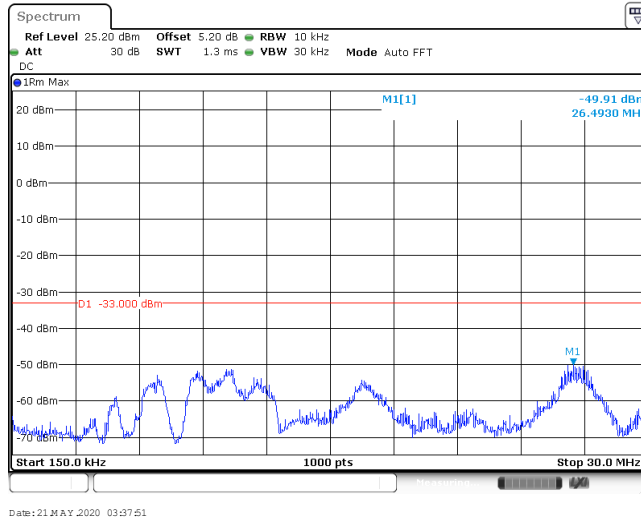


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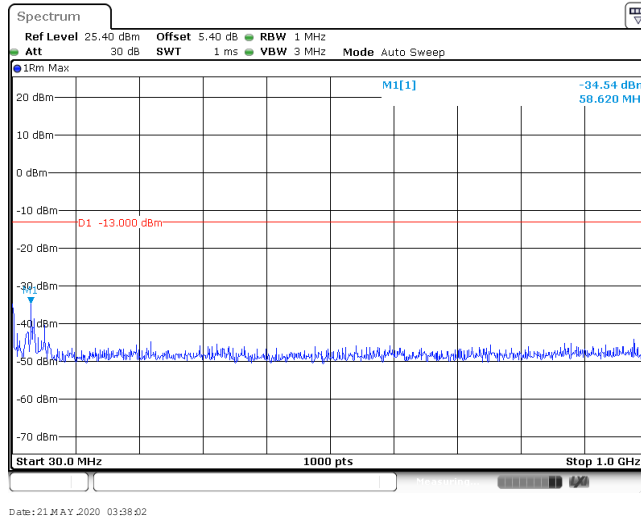
Band II\_9400



Band II\_9400

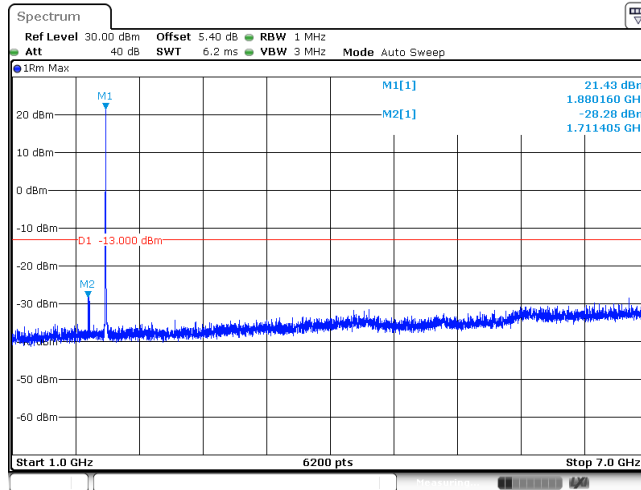


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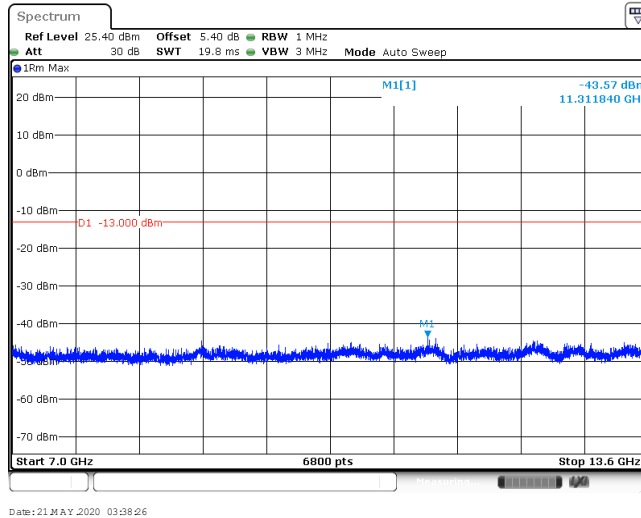
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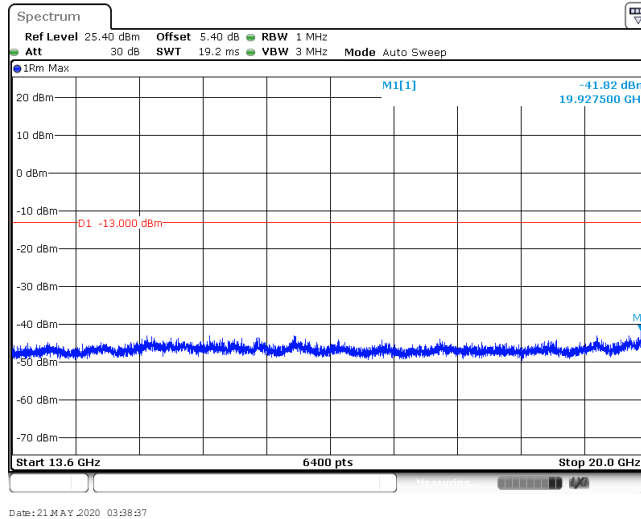
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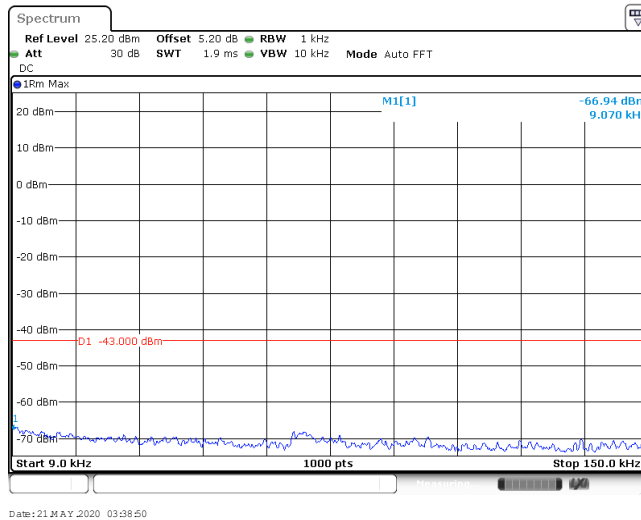


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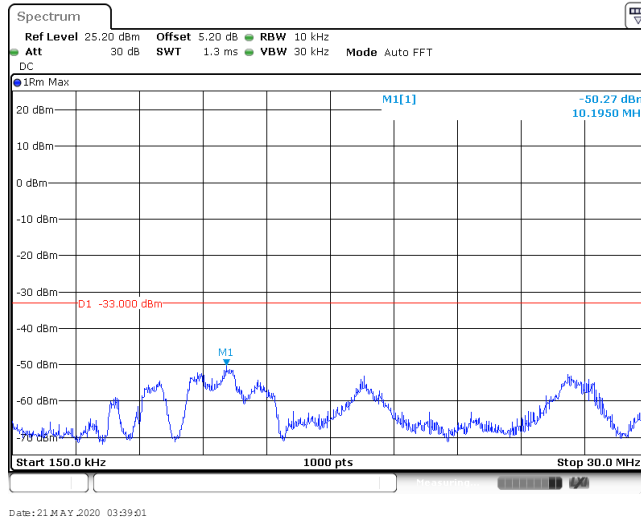


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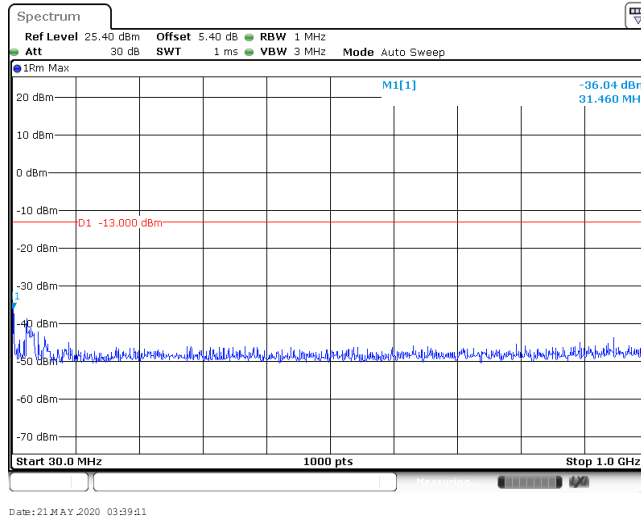


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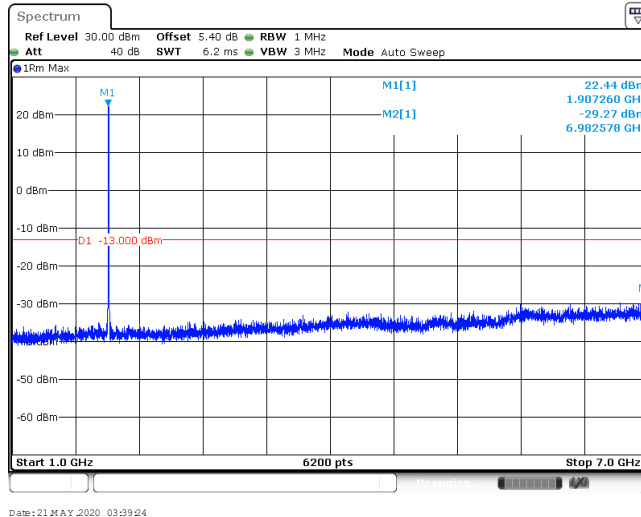


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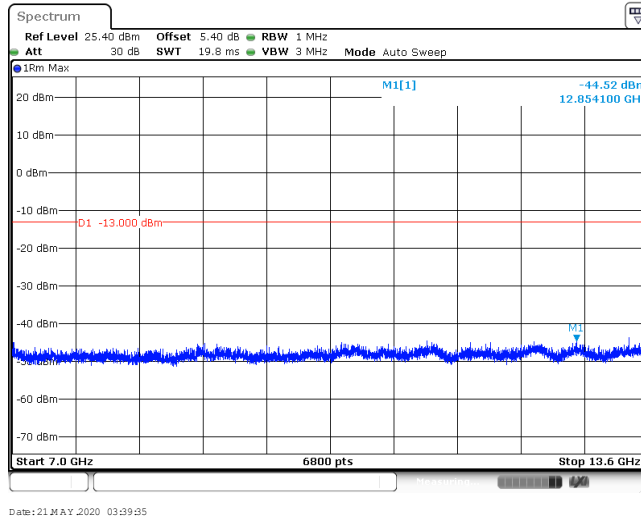
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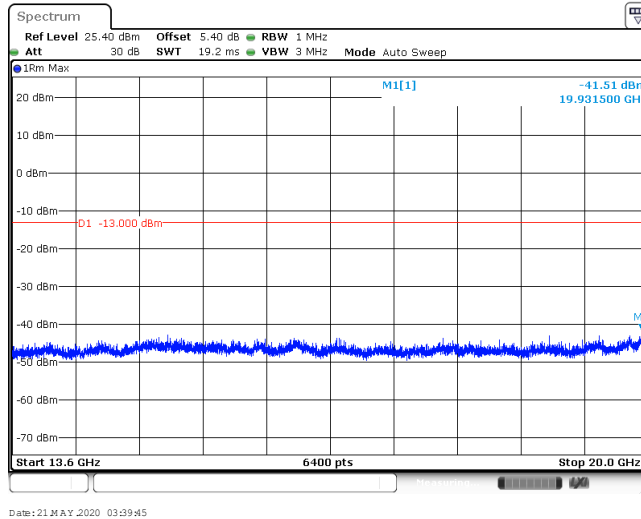
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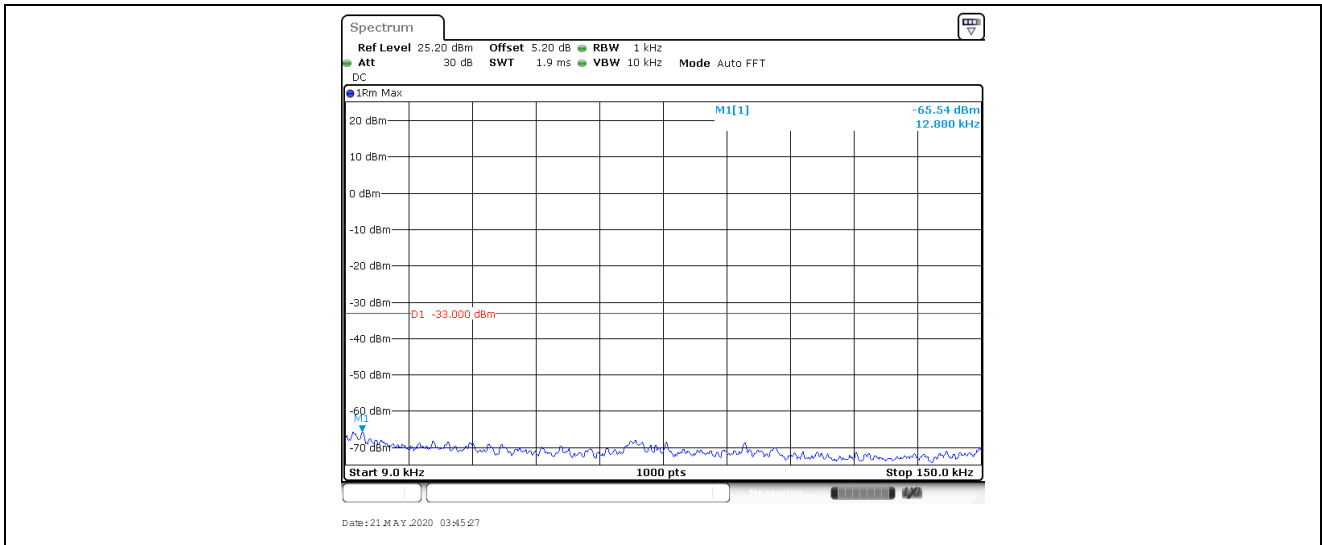


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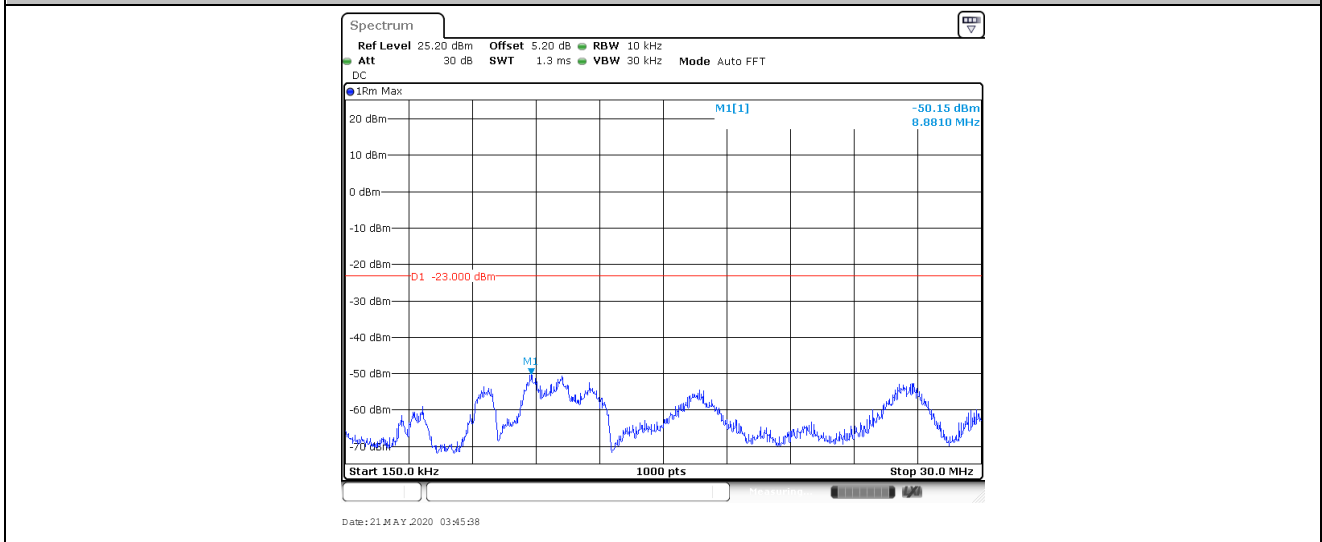


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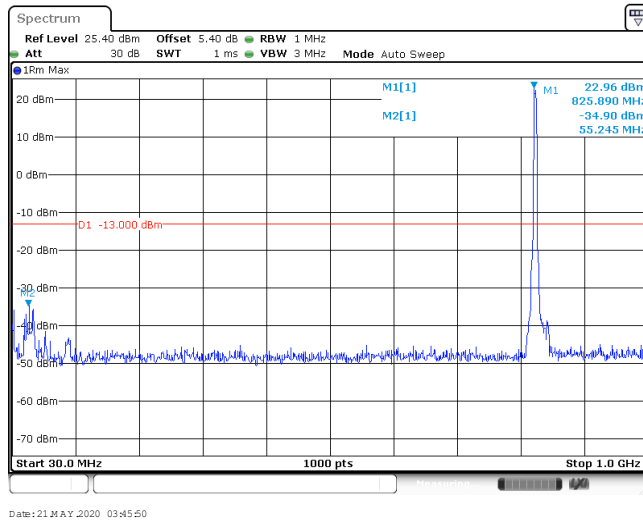


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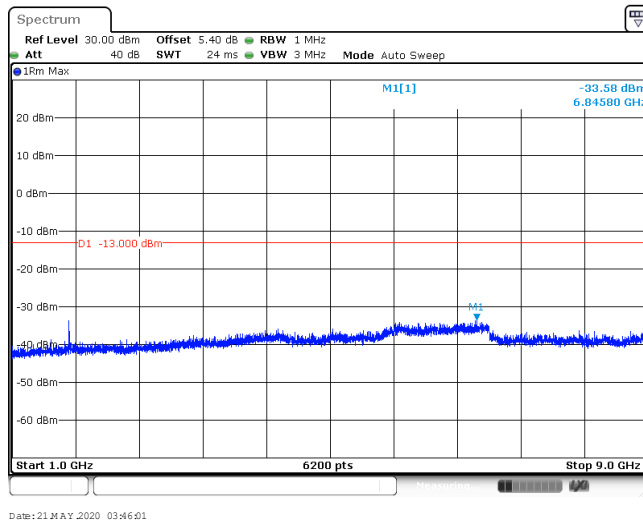


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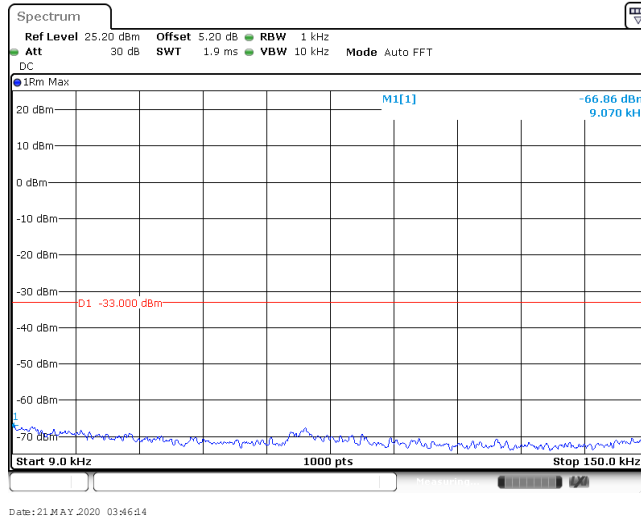
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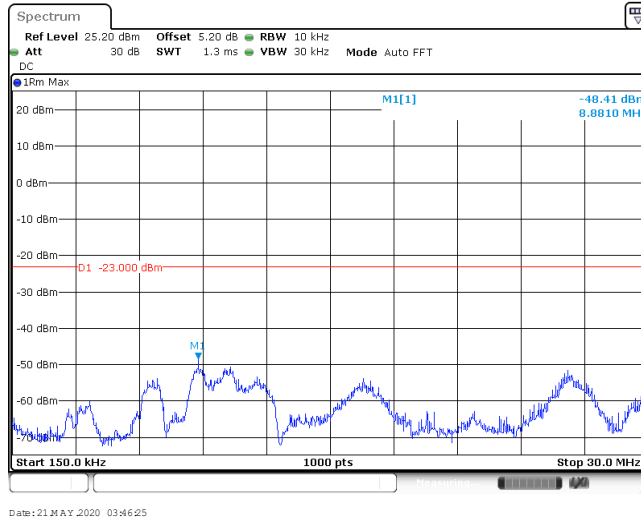
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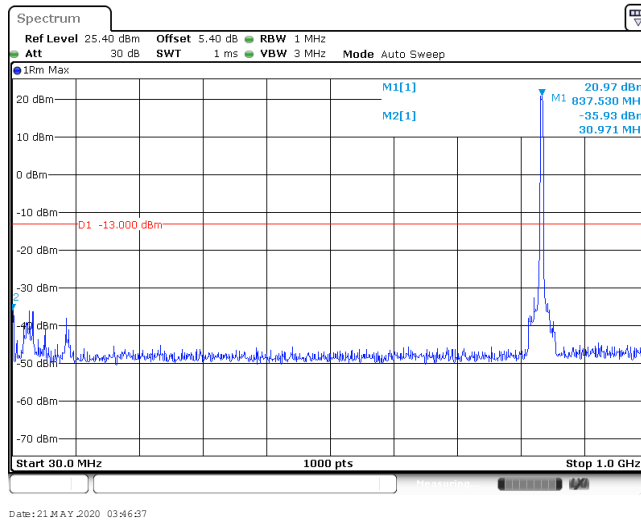
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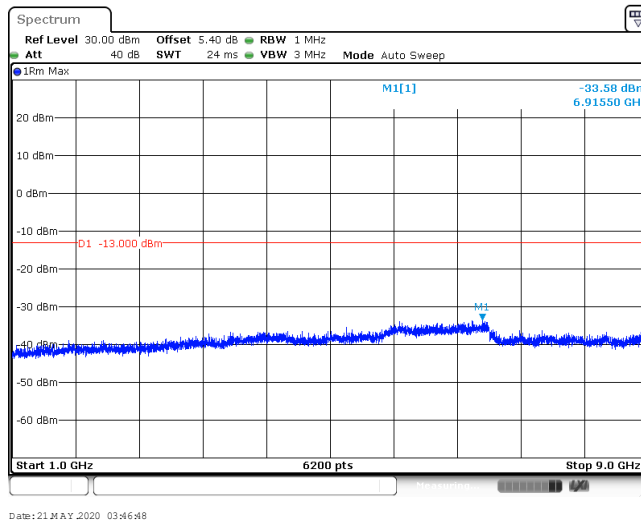
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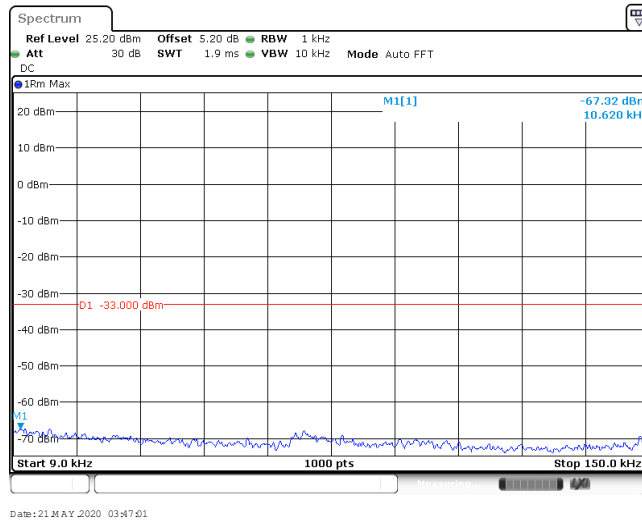


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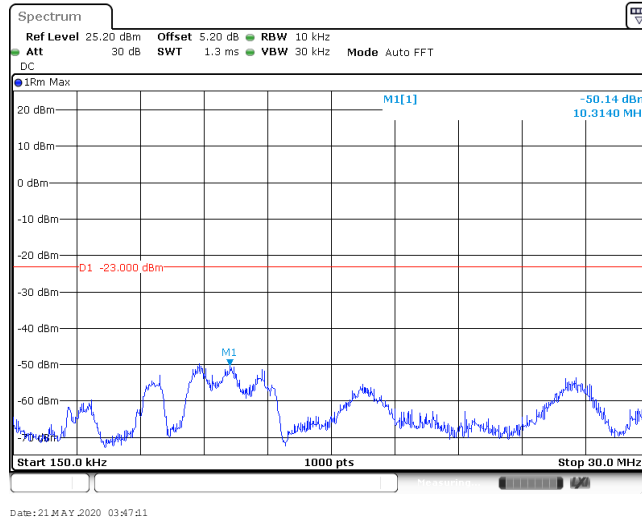


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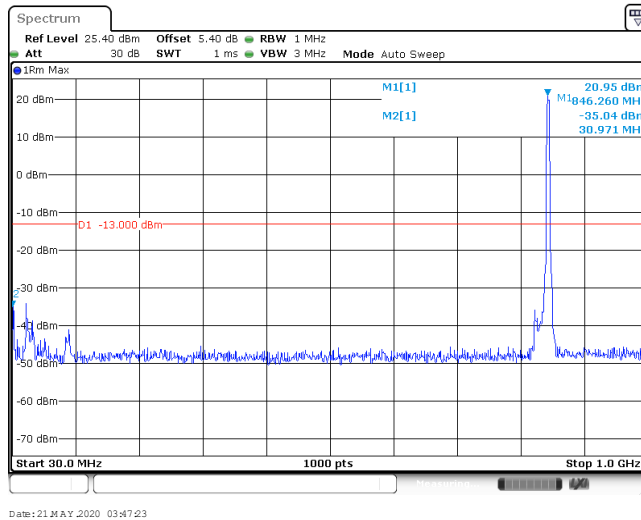
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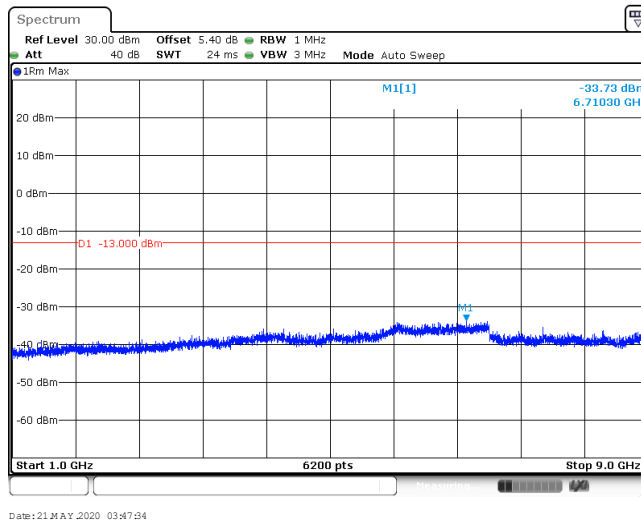
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II

#### 7.1.1. Test Mode = WCDMA/TM1

##### 7.1.1.1. Test Channel = LCH

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
42.2711	-71.04	-64.16	-13.00	51.16	161	293	Horizontal
3706.5236	-43.80	-52.35	-13.00	39.35	111	325	Horizontal
5554.0851	-46.87	-53.01	-13.00	40.01	185	68	Horizontal
7406.1469	-43.09	-43.15	-13.00	30.15	153	36	Horizontal
9257.7086	-54.33	-49.02	-13.00	36.02	198	356	Horizontal
16387.4462	-57.98	-43.76	-13.00	30.76	242	4	Horizontal
111.3871	-71.28	-64.99	-13.00	51.99	233	101	Vertical
3706.5236	-45.57	-54.91	-13.00	41.91	273	165	Vertical
5555.0852	-47.15	-53.71	-13.00	40.71	217	5	Vertical
7412.6471	-44.06	-43.56	-13.00	30.56	125	5	Vertical
14467.8823	-60.05	-47.80	-13.00	34.80	198	165	Vertical
17997.4999	-57.85	-40.03	-13.00	27.03	174	165	Vertical



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**7.1.1.2. Test Channel = MCH**

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
38.5849	-70.07	-63.78	-13.00	50.78	128	1	Horizontal
3762.0254	-45.74	-54.13	-13.00	41.13	278	322	Horizontal
5642.5881	-47.13	-53.16	-13.00	40.16	126	66	Horizontal
7523.1508	-42.19	-42.35	-13.00	29.35	121	1	Horizontal
16394.4465	-57.99	-43.64	-13.00	30.64	159	322	Horizontal
17997.4999	-58.22	-45.14	-13.00	32.14	176	1	Horizontal
111.9206	-69.84	-63.60	-13.00	50.60	174	356	Vertical
3761.5254	-46.87	-55.92	-13.00	42.92	153	100	Vertical
5637.5879	-49.21	-55.71	-13.00	42.71	136	4	Vertical
7517.1506	-42.42	-42.44	-13.00	29.44	274	4	Vertical
14478.8826	-60.24	-47.90	-13.00	34.90	299	132	Vertical
17996.9999	-58.52	-40.72	-13.00	27.72	243	196	Vertical

**7.1.1.3. Test Channel = HCH**

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
44.8417	-70.39	-63.38	-13.00	50.38	196	289	Horizontal
248.3579	-71.15	-68.54	-13.00	55.54	143	225	Horizontal
3813.5271	-45.99	-54.23	-13.00	41.23	111	321	Horizontal
5720.5907	-47.33	-53.33	-13.00	40.33	174	63	Horizontal
7625.6542	-43.24	-44.19	-13.00	31.19	125	1	Horizontal
9542.7181	-56.83	-51.81	-13.00	38.81	137	356	Horizontal
108.2829	-70.29	-64.28	-13.00	51.28	166	7	Vertical
3813.0271	-47.99	-56.82	-13.00	43.82	134	134	Vertical
5725.5909	-47.65	-54.31	-13.00	41.31	152	7	Vertical
7627.1542	-44.00	-44.70	-13.00	31.70	278	7	Vertical
14486.3829	-59.95	-47.55	-13.00	34.55	264	7	Vertical
17999.0000	-57.99	-40.14	-13.00	27.14	211	166	Vertical



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## 7.2. Test Band = WCDMA Band V

### 7.2.1. Test Mode = WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
39.3125	-70.27	-63.74	-13.00	50.74	263	228	Horizontal
1651.3303	-62.45	-58.42	-13.00	45.42	111	358	Horizontal
4127.5376	-51.68	-60.83	-13.00	47.83	273	35	Horizontal
4960.5654	-50.37	-57.99	-13.00	44.99	277	67	Horizontal
5791.5931	-50.11	-56.23	-13.00	43.23	218	35	Horizontal
16399.4466	-58.32	-43.88	-13.00	30.88	174	228	Horizontal
105.2273	-71.50	-66.20	-13.00	53.20	263	325	Vertical
1651.3303	-64.03	-59.35	-13.00	46.35	111	66	Vertical
4136.5379	-53.12	-62.88	-13.00	49.88	174	325	Vertical
4965.0655	-52.51	-60.15	-13.00	47.15	182	101	Vertical
5793.0931	-52.56	-59.13	-13.00	46.13	169	5	Vertical
17997.4999	-58.10	-40.28	-13.00	27.28	124	36	Vertical



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**7.2.1.2. Test Channel = MCH**

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
39.4580	-71.39	-64.81	-13.00	51.81	261	5	Horizontal
521.2811	-70.81	-65.07	-13.00	52.07	224	69	Horizontal
1674.5349	-62.15	-58.35	-13.00	45.35	174	357	Horizontal
5016.0672	-52.06	-59.19	-13.00	46.19	192	69	Horizontal
5848.0949	-53.30	-59.20	-13.00	46.20	137	37	Horizontal
16396.4465	-58.53	-44.14	-13.00	31.14	264	69	Horizontal
116.5768	-71.62	-65.79	-13.00	52.79	261	37	Vertical
1674.5349	-61.87	-57.11	-13.00	44.11	175	243	Vertical
5011.0670	-53.62	-60.76	-13.00	47.76	174	133	Vertical
5851.5951	-54.87	-61.30	-13.00	48.30	189	5	Vertical
10615.2538	-58.61	-51.89	-13.00	38.89	145	133	Vertical
17995.9999	-57.90	-40.12	-13.00	27.12	241	228	Vertical

**7.2.1.3. Test Channel = HCH**

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
41.2526	-71.05	-64.22	-13.00	51.22	137	228	Horizontal
580.3570	-70.90	-63.75	-13.00	50.75	152	132	Horizontal
1691.3383	-62.54	-58.91	-13.00	45.91	294	344	Horizontal
5081.0694	-50.20	-56.92	-13.00	43.92	226	68	Horizontal
5922.5974	-52.13	-57.67	-13.00	44.67	224	68	Horizontal
16399.9467	-58.16	-43.71	-13.00	30.71	271	132	Horizontal
110.5625	-71.62	-65.26	-13.00	52.26	171	324	Vertical
1691.7383	-62.52	-57.70	-13.00	44.70	133	240	Vertical
5085.5695	-52.98	-59.99	-13.00	46.99	152	7	Vertical
5933.5978	-53.54	-59.65	-13.00	46.65	264	7	Vertical
14478.3826	-60.28	-47.95	-13.00	34.95	196	134	Vertical
17999.0000	-57.86	-40.01	-13.00	27.01	137	70	Vertical

Remark:

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



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-3.53	-0.001906	±2.5	PASS
Band II	9262	VN	TN	-1.74	-0.000941	±2.5	PASS
Band II	9262	VH	TN	-5.17	-0.002793	±2.5	PASS
Band II	9400	VL	TN	-4.80	-0.002551	±2.5	PASS
Band II	9400	VN	TN	-9.00	-0.004789	±2.5	PASS
Band II	9400	VH	TN	-10.21	-0.005432	±2.5	PASS
Band II	9538	VL	TN	-15.00	-0.007861	±2.5	PASS
Band II	9538	VN	TN	-14.11	-0.007395	±2.5	PASS
Band II	9538	VH	TN	5.55	0.002907	±2.5	PASS
Band V	4132	VL	TN	-0.54	-0.000648	±2.5	PASS
Band V	4132	VN	TN	1.52	0.001843	±2.5	PASS
Band V	4132	VH	TN	11.84	0.014333	±2.5	PASS
Band V	4182	VL	TN	-5.89	-0.007044	±2.5	PASS
Band V	4182	VN	TN	14.47	0.017303	±2.5	PASS
Band V	4182	VH	TN	8.89	0.010628	±2.5	PASS
Band V	4233	VL	TN	-1.54	-0.001816	±2.5	PASS
Band V	4233	VN	TN	3.51	0.004152	±2.5	PASS
Band V	4233	VH	TN	-1.04	-0.001224	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	4.53	0.002445	±2.5	PASS
Band II	9262	VN	-20	-6.31	-0.003409	±2.5	PASS
Band II	9262	VN	-10	-1.86	-0.001002	±2.5	PASS
Band II	9262	VN	0	0.36	0.000196	±2.5	PASS
Band II	9262	VN	10	-12.52	-0.006757	±2.5	PASS
Band II	9262	VN	20	-4.31	-0.002324	±2.5	PASS
Band II	9262	VN	30	-12.26	-0.006619	±2.5	PASS
Band II	9262	VN	40	8.35	0.004510	±2.5	PASS
Band II	9262	VN	50	5.08	0.002742	±2.5	PASS
Band II	9400	VN	-30	-9.05	-0.004815	±2.5	PASS
Band II	9400	VN	-20	14.47	0.007699	±2.5	PASS
Band II	9400	VN	-10	8.04	0.004277	±2.5	PASS
Band II	9400	VN	0	-4.80	-0.002555	±2.5	PASS
Band II	9400	VN	10	-8.08	-0.004297	±2.5	PASS
Band II	9400	VN	20	5.27	0.002802	±2.5	PASS
Band II	9400	VN	30	-7.43	-0.003953	±2.5	PASS
Band II	9400	VN	40	-12.95	-0.006890	±2.5	PASS
Band II	9400	VN	50	-13.99	-0.007442	±2.5	PASS
Band II	9538	VN	-30	-1.56	-0.000819	±2.5	PASS
Band II	9538	VN	-20	-5.87	-0.003079	±2.5	PASS
Band II	9538	VN	-10	-8.67	-0.004547	±2.5	PASS
Band II	9538	VN	0	9.60	0.005033	±2.5	PASS
Band II	9538	VN	10	-3.11	-0.001632	±2.5	PASS
Band II	9538	VN	20	-2.58	-0.001351	±2.5	PASS
Band II	9538	VN	30	1.44	0.000757	±2.5	PASS
Band II	9538	VN	40	-9.41	-0.004933	±2.5	PASS
Band II	9538	VN	50	3.97	0.002079	±2.5	PASS
Band V	4132	VN	-30	-12.38	-0.014975	±2.5	PASS
Band V	4132	VN	-20	-9.11	-0.011023	±2.5	PASS
Band V	4132	VN	-10	3.76	0.004545	±2.5	PASS
Band V	4132	VN	0	-12.14	-0.014691	±2.5	PASS
Band V	4132	VN	10	-13.18	-0.015953	±2.5	PASS



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Band V	4132	VN	20	11.80	0.014278	±2.5	PASS
Band V	4132	VN	30	8.01	0.009692	±2.5	PASS
Band V	4132	VN	40	7.19	0.008695	±2.5	PASS
Band V	4132	VN	50	13.64	0.016505	±2.5	PASS
Band V	4182	VN	-30	13.06	0.015611	±2.5	PASS
Band V	4182	VN	-20	5.65	0.006751	±2.5	PASS
Band V	4182	VN	-10	-9.70	-0.011602	±2.5	PASS
Band V	4182	VN	0	-7.93	-0.009478	±2.5	PASS
Band V	4182	VN	10	-8.25	-0.009858	±2.5	PASS
Band V	4182	VN	20	-6.93	-0.008283	±2.5	PASS
Band V	4182	VN	30	12.61	0.015081	±2.5	PASS
Band V	4182	VN	40	13.45	0.016076	±2.5	PASS
Band V	4182	VN	50	14.67	0.017536	±2.5	PASS
Band V	4233	VN	-30	12.00	0.014174	±2.5	PASS
Band V	4233	VN	-20	7.54	0.008907	±2.5	PASS
Band V	4233	VN	-10	6.22	0.007348	±2.5	PASS
Band V	4233	VN	0	7.57	0.008947	±2.5	PASS
Band V	4233	VN	10	-11.59	-0.013687	±2.5	PASS
Band V	4233	VN	20	6.20	0.007322	±2.5	PASS
Band V	4233	VN	30	-6.96	-0.008222	±2.5	PASS
Band V	4233	VN	40	10.45	0.012343	±2.5	PASS
Band V	4233	VN	50	-10.43	-0.012320	±2.5	PASS

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