

# Appendix B

## WCDMA Band II & IV & 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	23.76	22.89	33.00	PASS
Band II	9400	23.78	22.91	33.00	PASS
Band II	9538	23.81	22.94	33.00	PASS
Band IV	4132	24.16	26.21	30.00	PASS
Band IV	4182	24.07	26.12	30.00	PASS
Band IV	4233	24.23	26.28	30.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.40	20.5	38.45	PASS
Band V	4182	24.31	20.41	38.45	PASS
Band V	4233	24.29	20.39	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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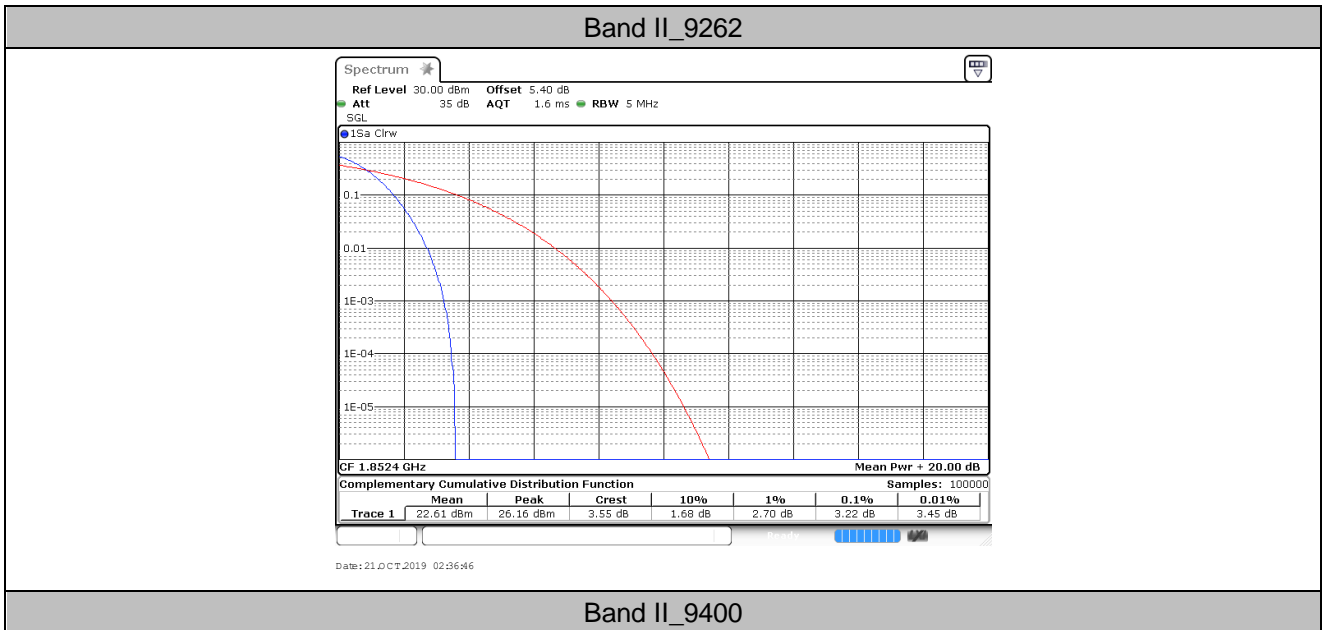
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

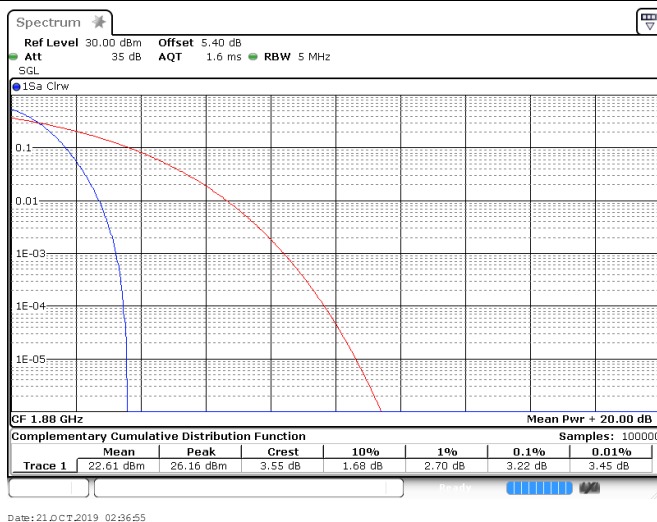
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.22	13	PASS
Band II	9400	3.22	13	PASS
Band II	9538	3.25	13	PASS
Band IV	1312	3.22	13	PASS
Band IV	1413	3.19	13	PASS
Band IV	1513	3.19	13	PASS
Band V	4132	3.25	13	PASS
Band V	4182	3.22	13	PASS
Band V	4233	3.22	13	PASS

### 2.2. Test Plots

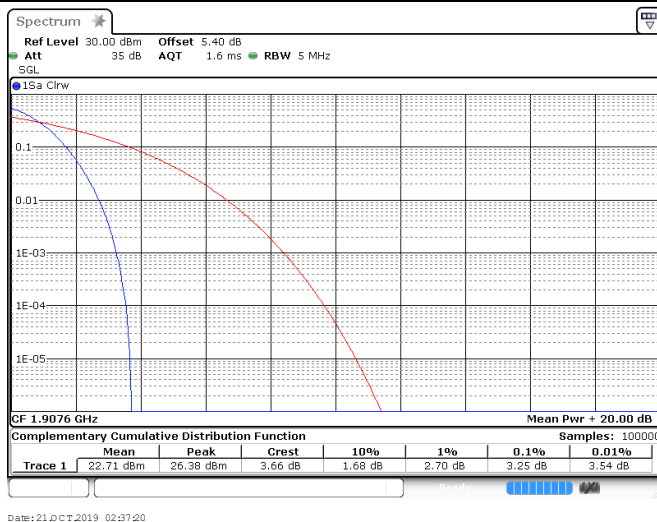


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**Band II\_9538**

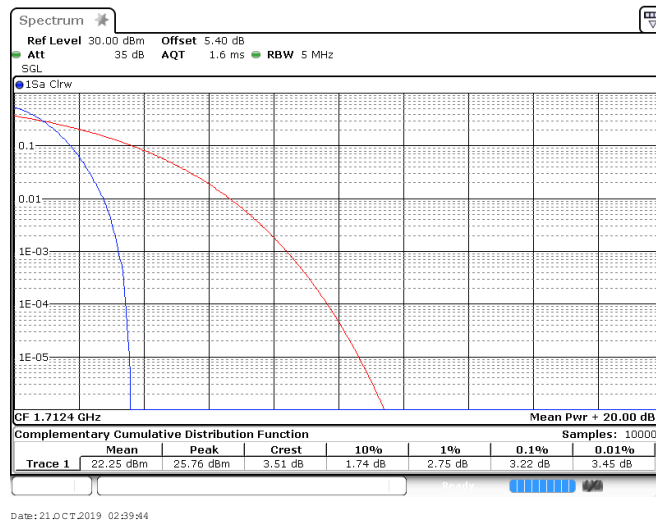


**Band IV\_1312**



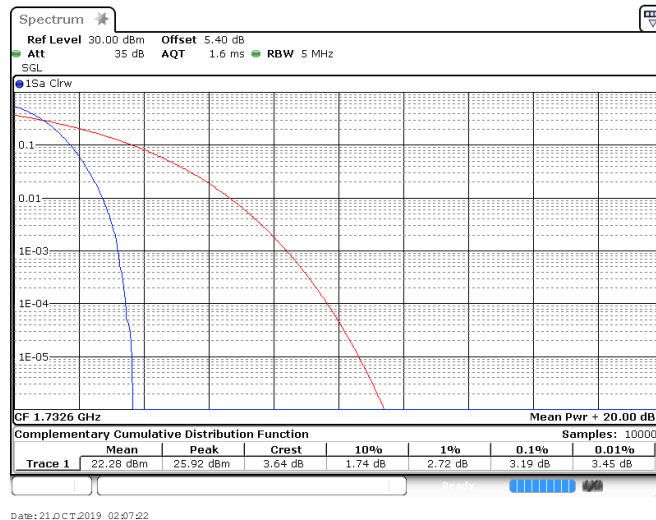
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**Band IV\_1413**

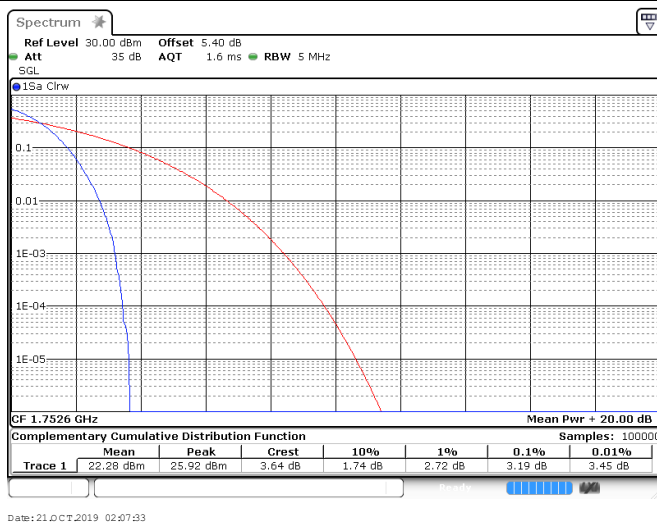


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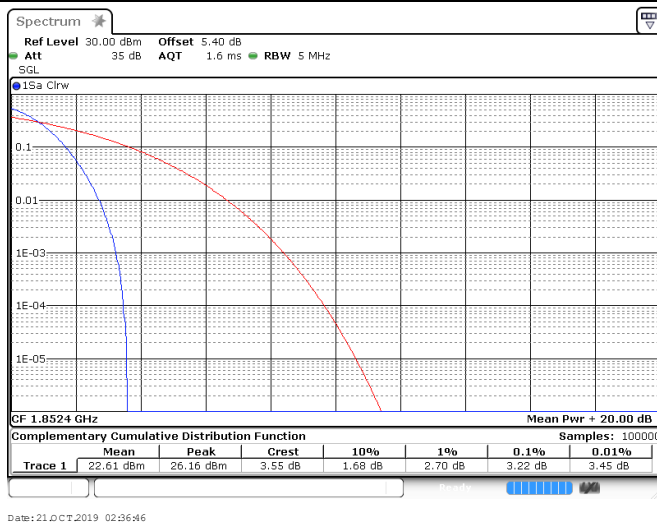
**Band IV\_1513**



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**Band V\_4132**



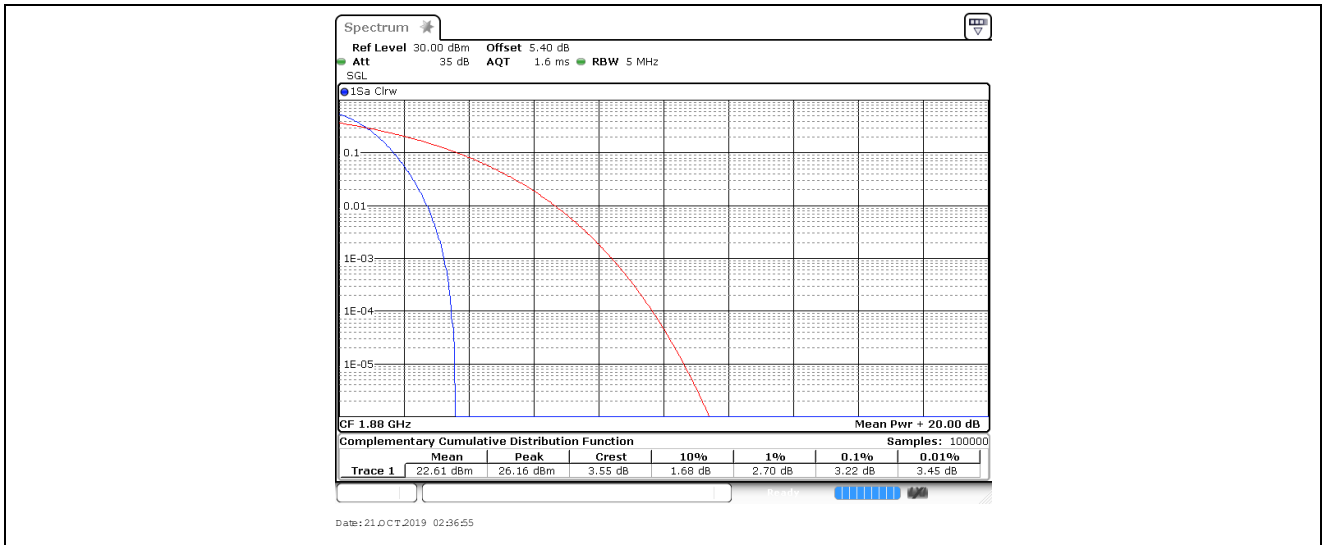
**Band V\_4182**



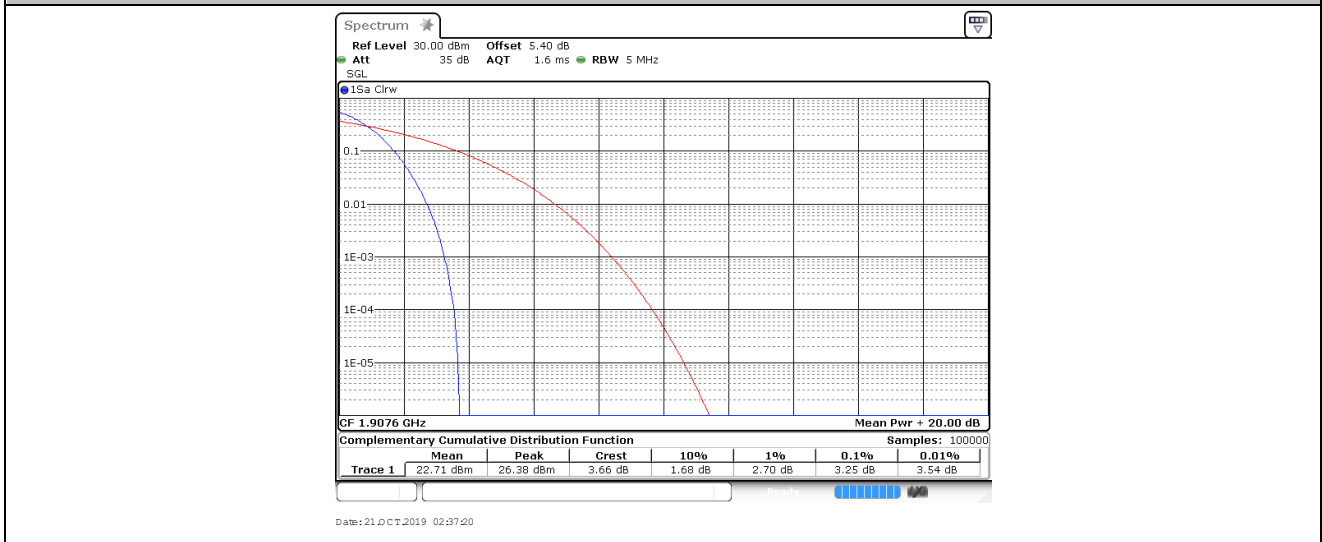
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**Band V\_4233**



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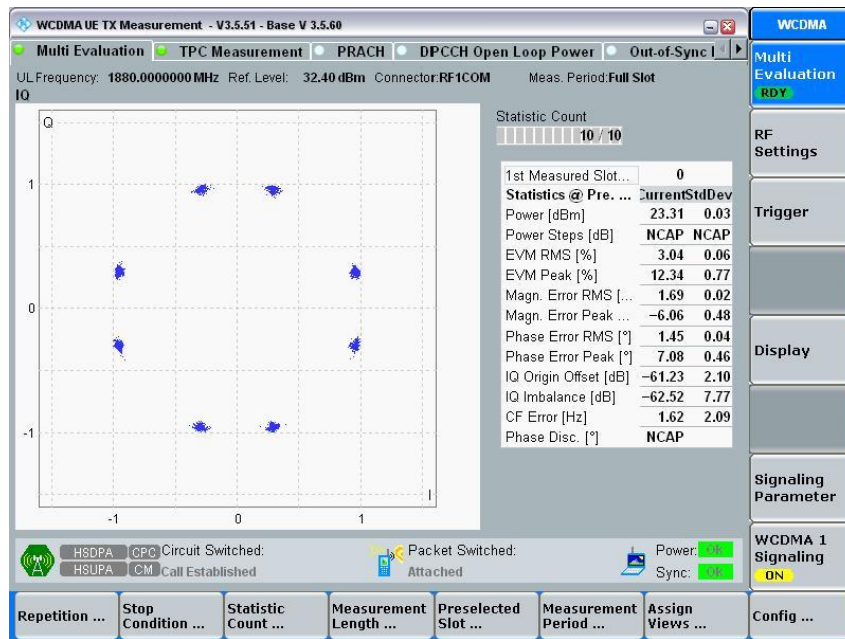
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### 3. Modulation Characteristics

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

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

##### 3.1.1.1. Test Channel = MCH



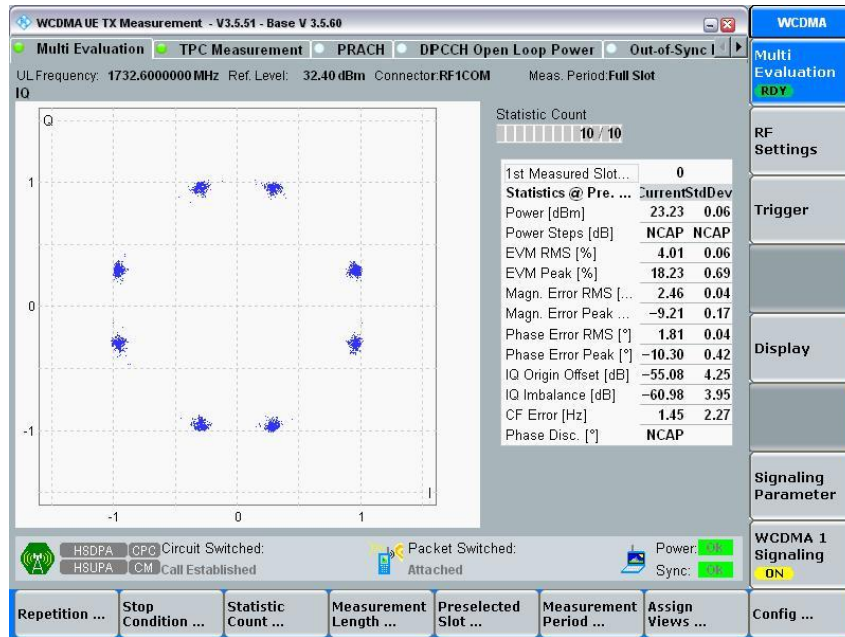
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### 3.2. Test Band = WCDMA Band IV

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

##### 3.2.1.1. Test Channel = MCH



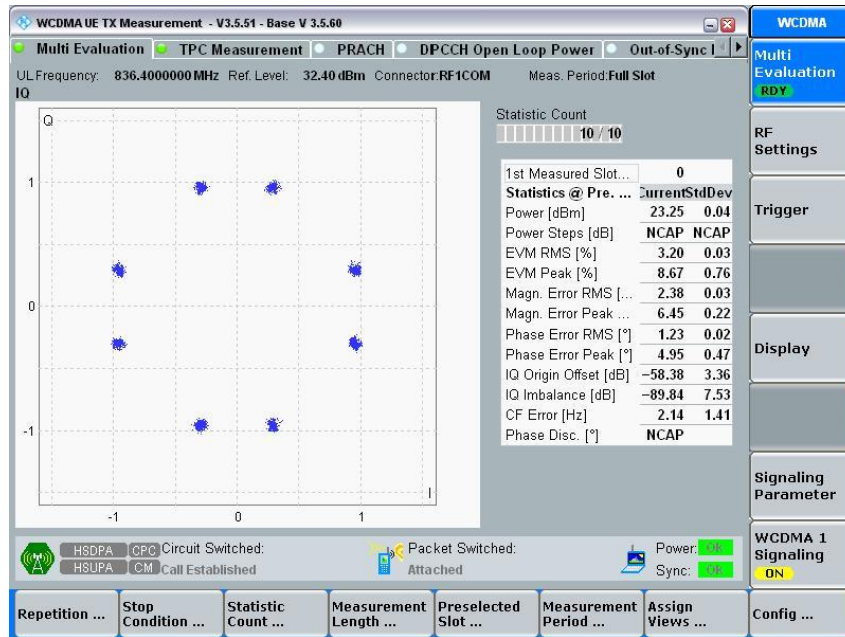
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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



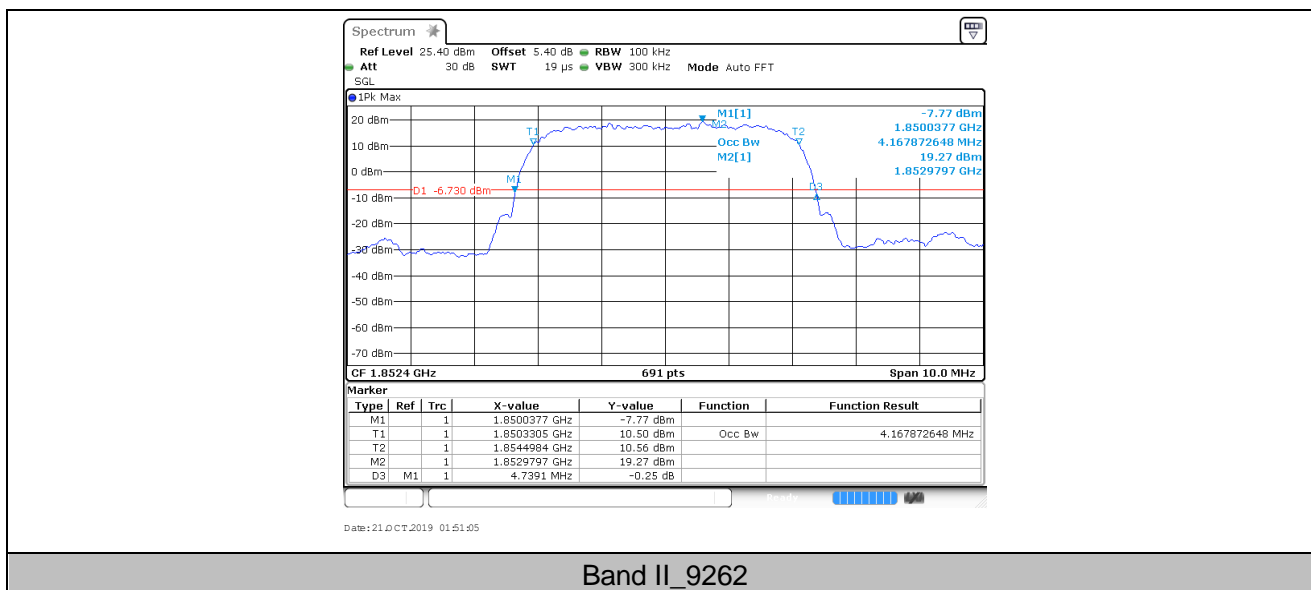
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4739	---	PASS
Band II	9400	4167.9	4725	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band IV	1312	4182.3	4739	---	PASS
Band IV	1413	4167.9	4754	---	PASS
Band IV	1513	4182.3	4739	---	PASS
Band V	4132	4153.4	4710	---	PASS
Band V	4182	4167.9	4725	---	PASS
Band V	4233	4182.3	4725	---	PASS

### 4.2. Test Plots

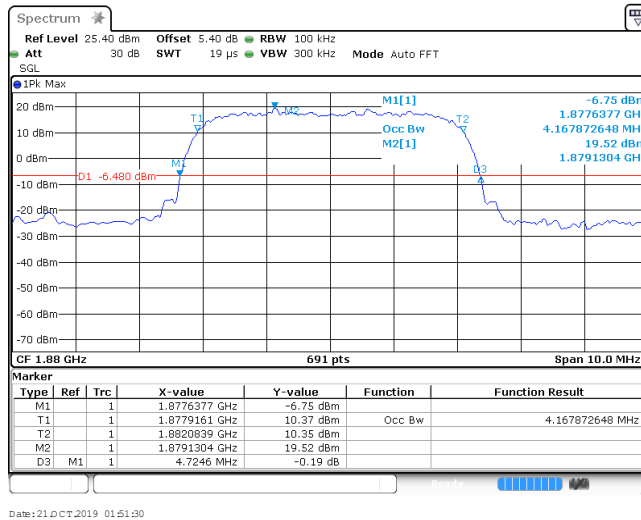


Band II\_9262



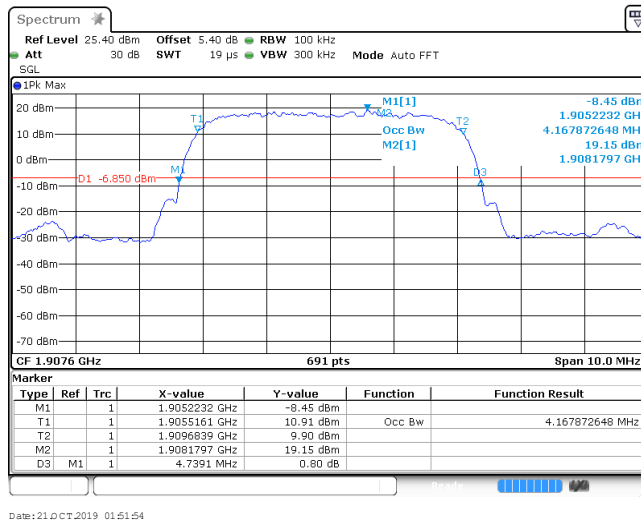
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**Band II\_9400**



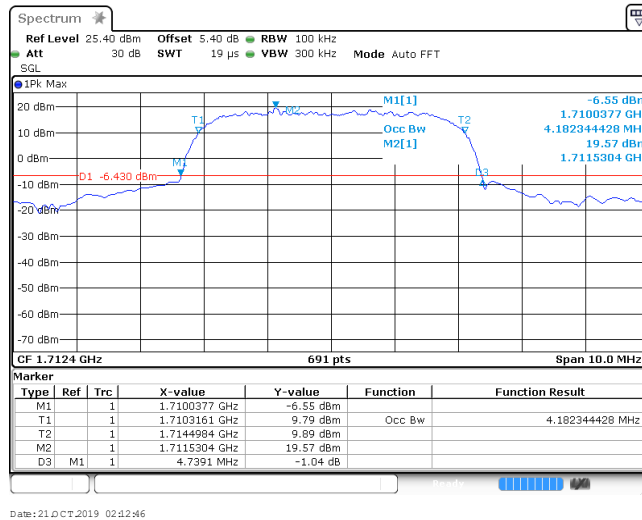
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**Band II\_9538**

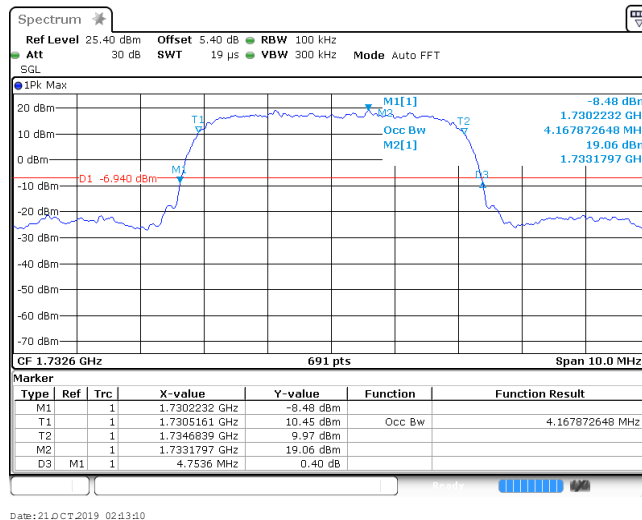


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Band IV\_1312

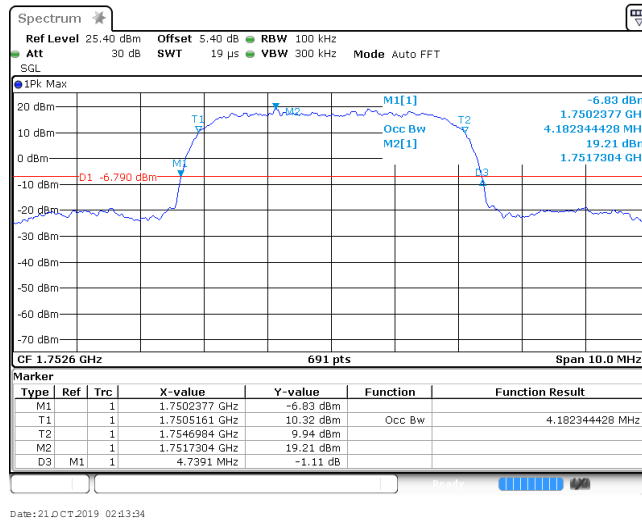


Band IV\_1413



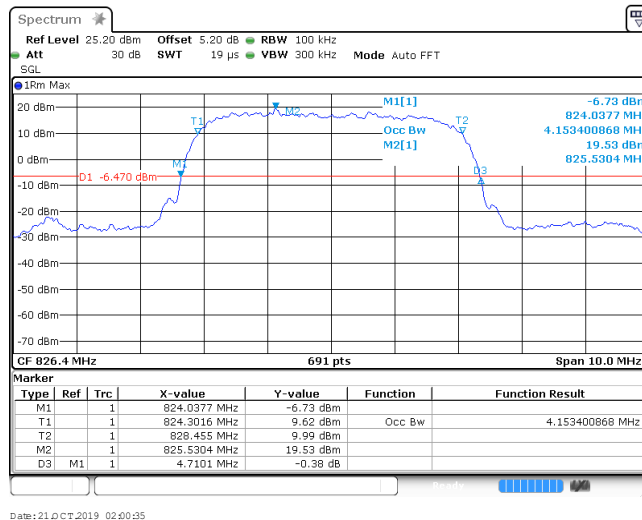
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Date: 21 OCT 2019 02:13:34

**Band IV\_1513**



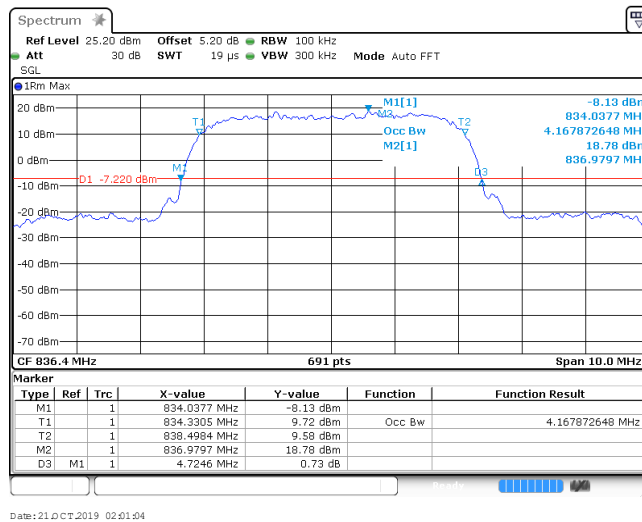
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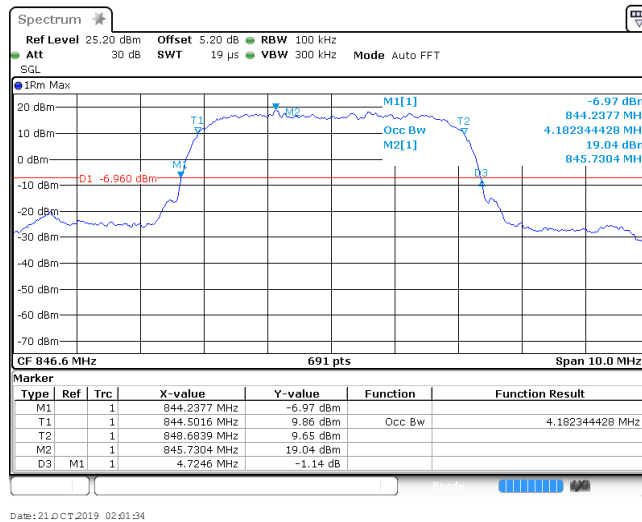


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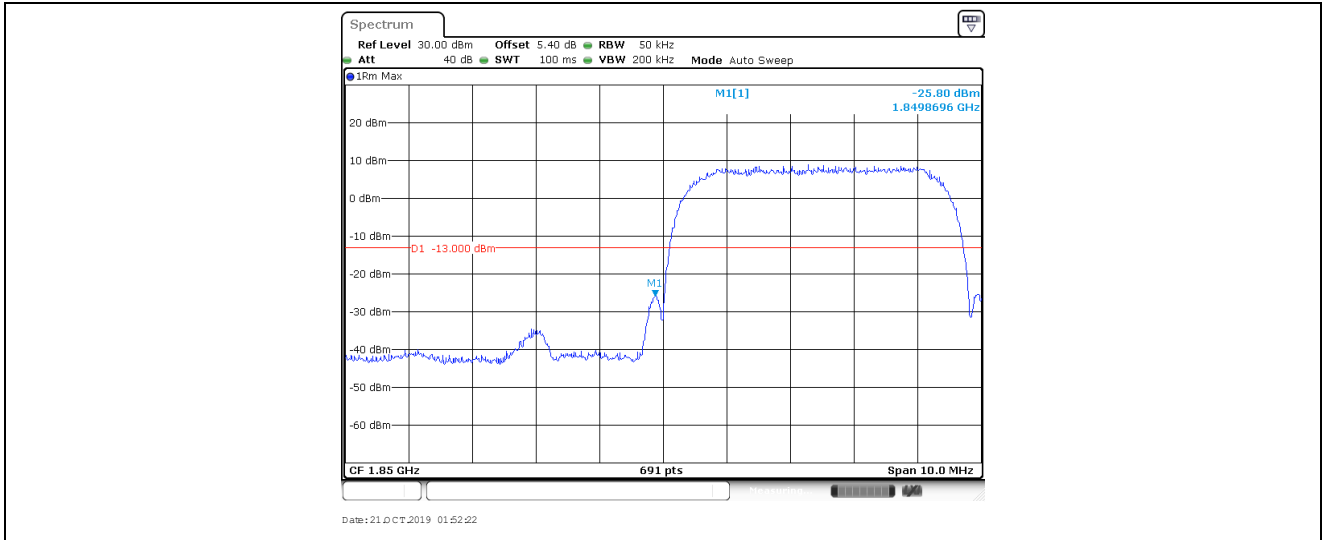


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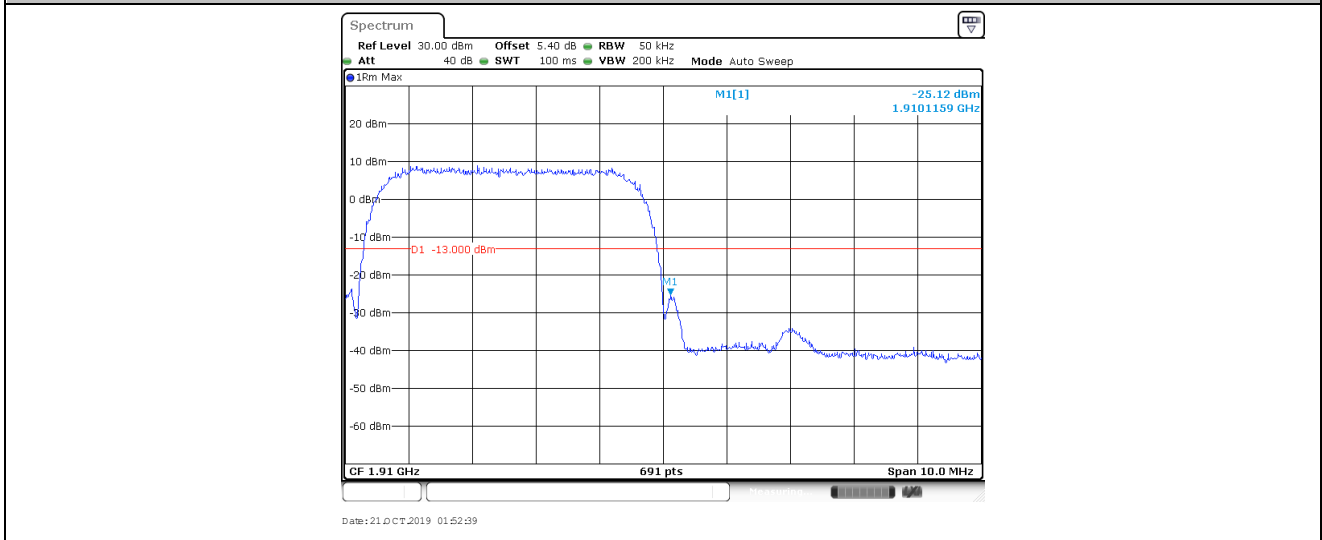
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## 5. Band Edge Compliance

### 5.1. Test Plots



Band II\_9262

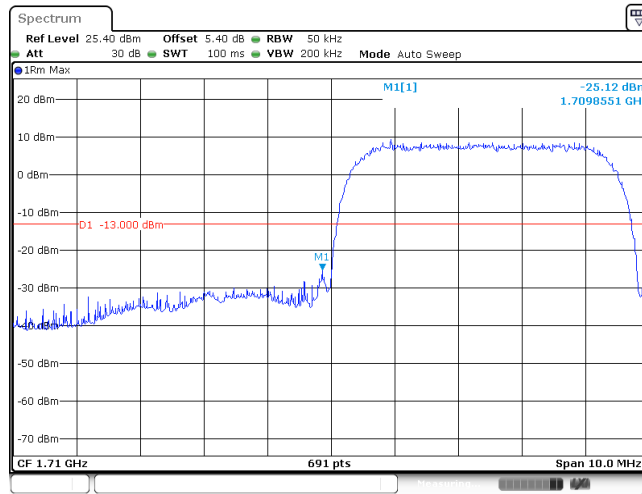


Band II\_9538

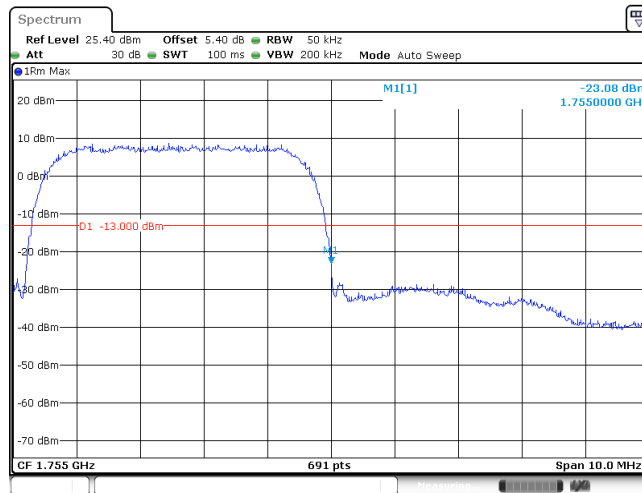


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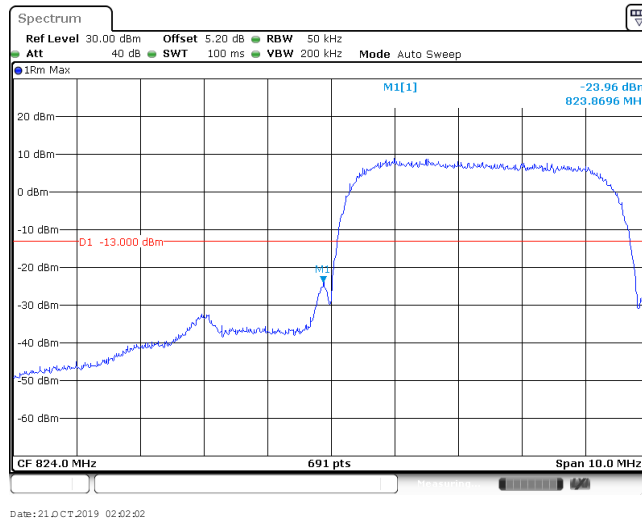
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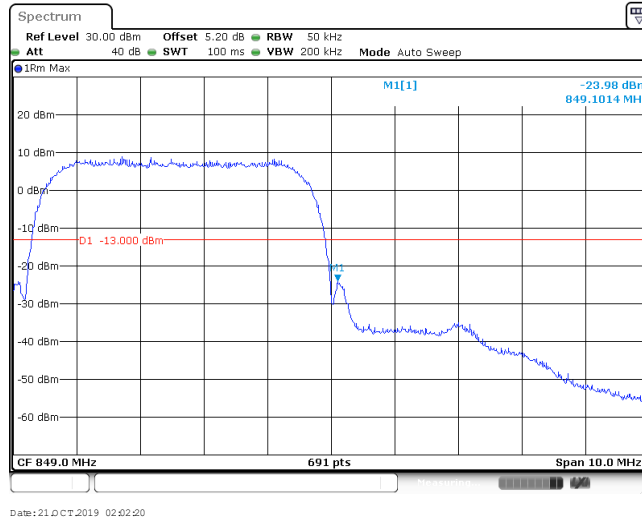
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## 6. Spurious Emission at Antenna Terminal

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  $< RBW/2$  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.

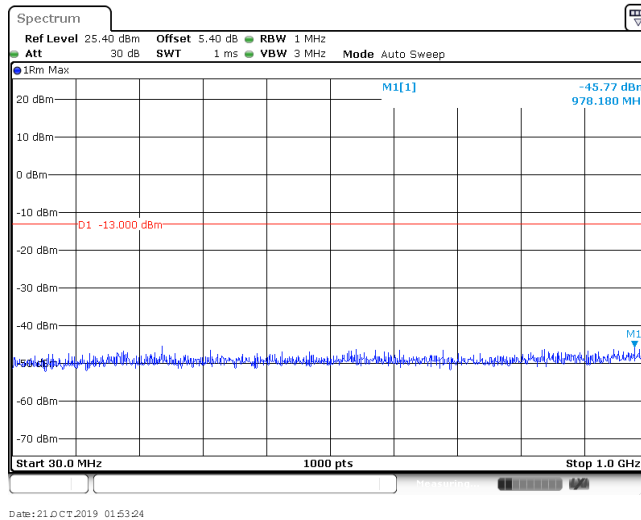
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

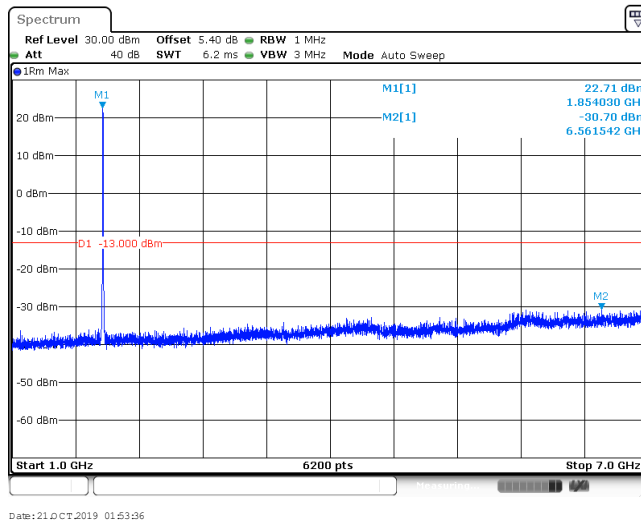


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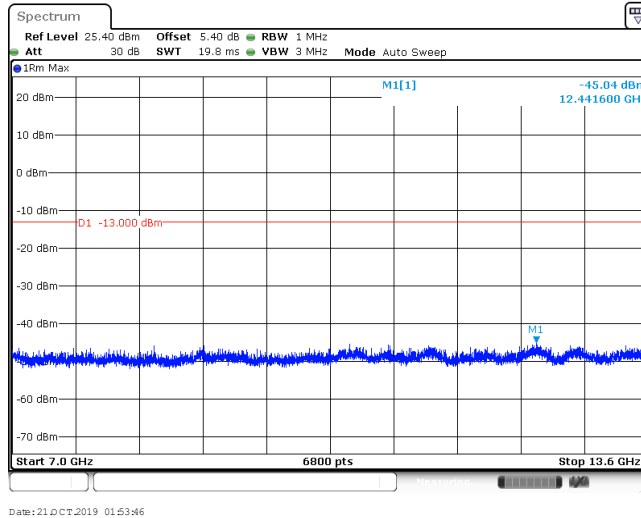
Band II\_9262



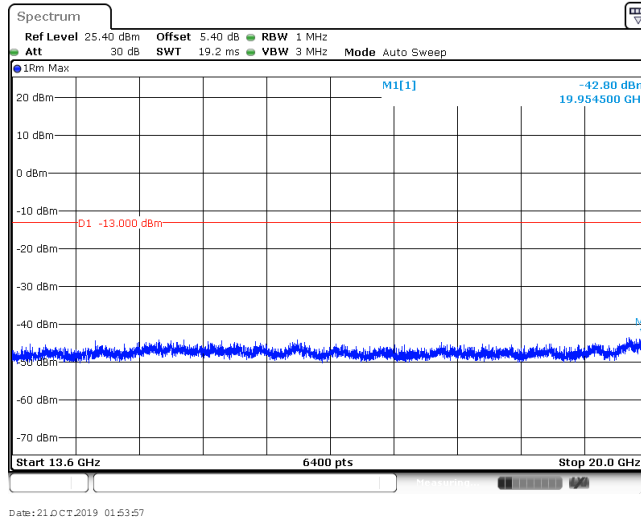
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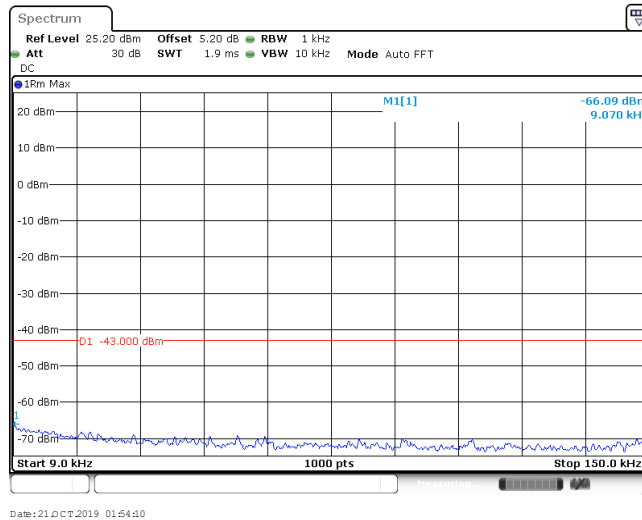
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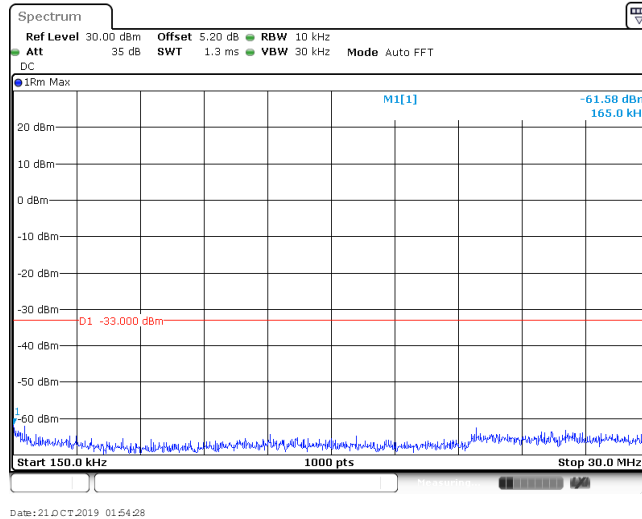
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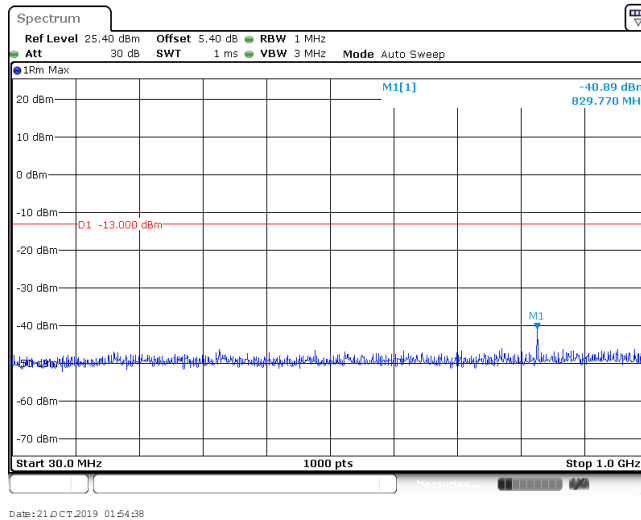
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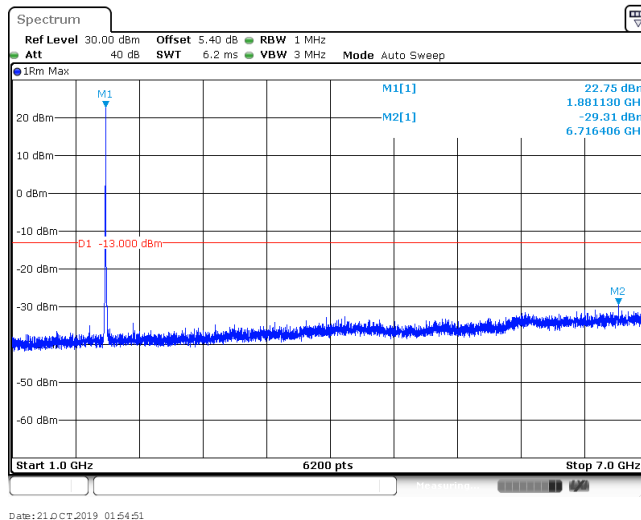
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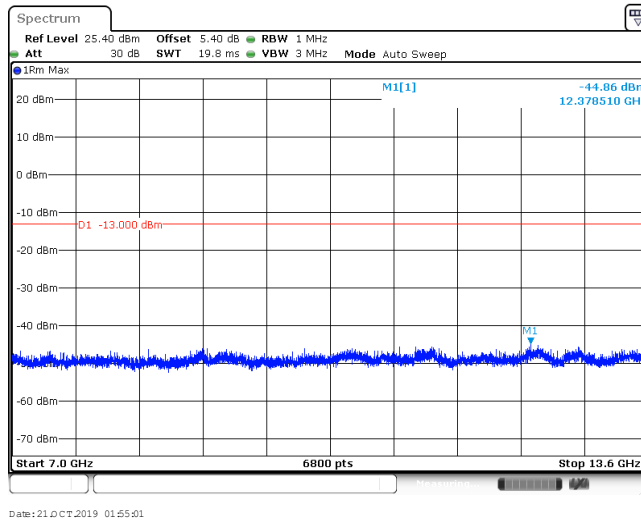


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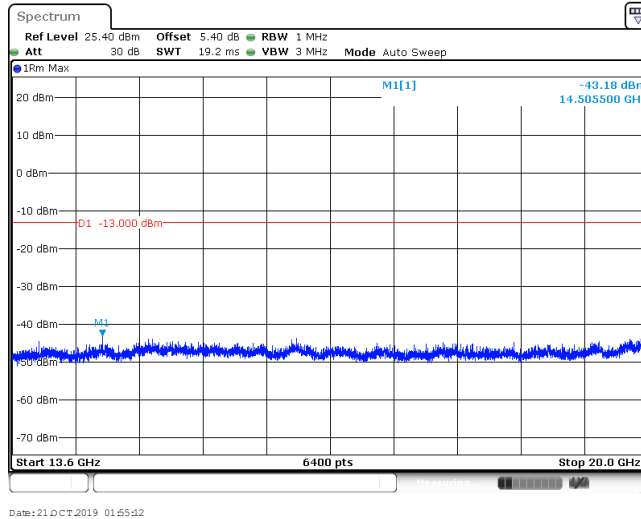


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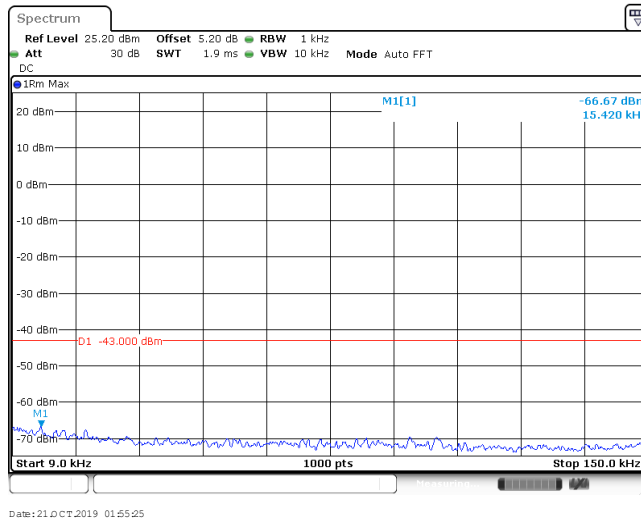
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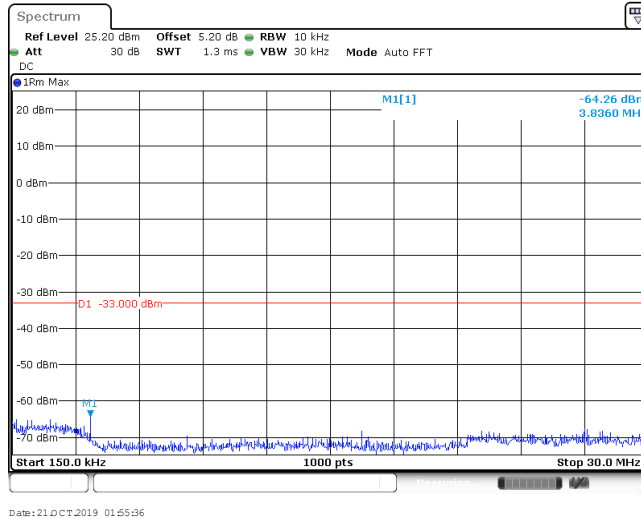
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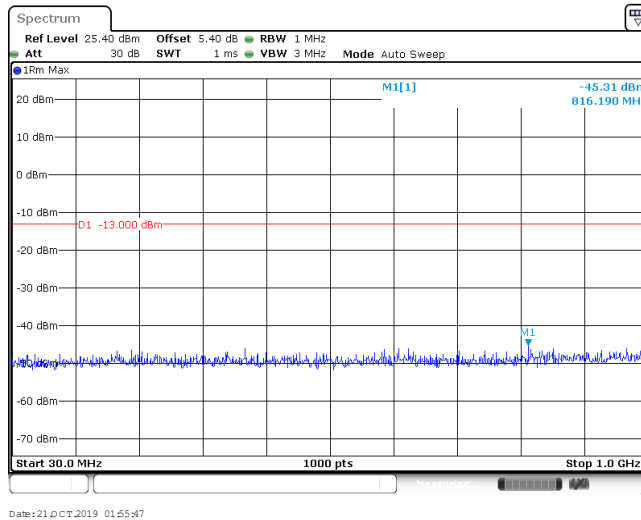
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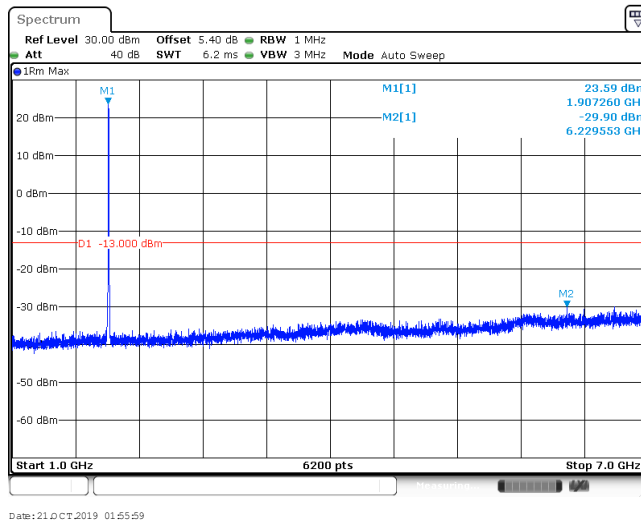
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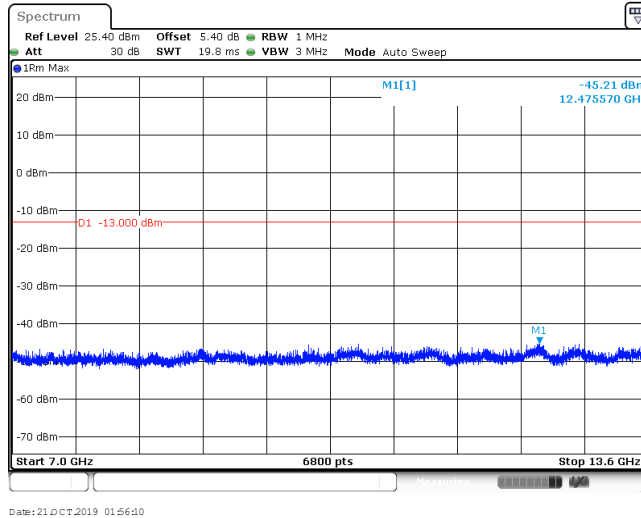
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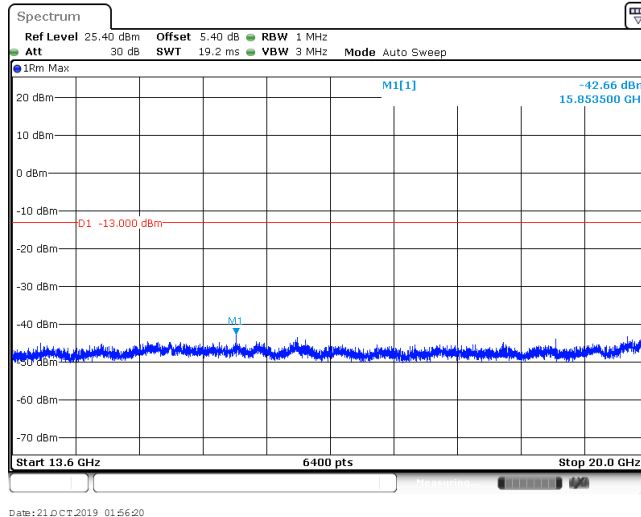
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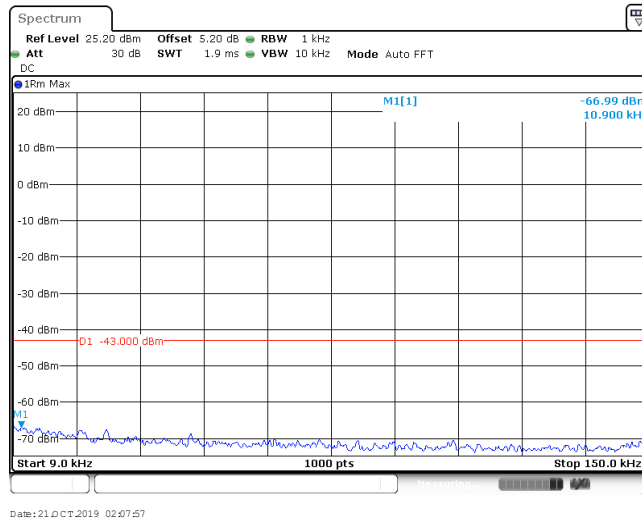
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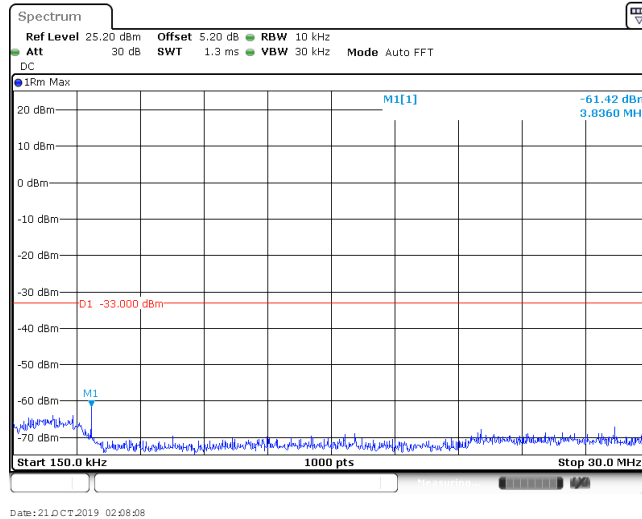
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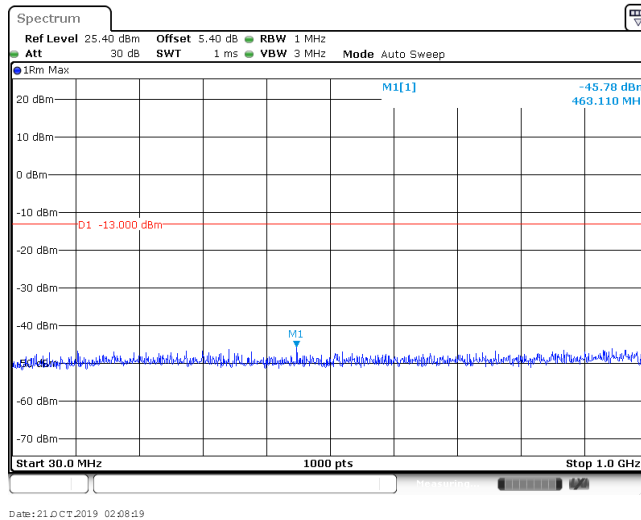
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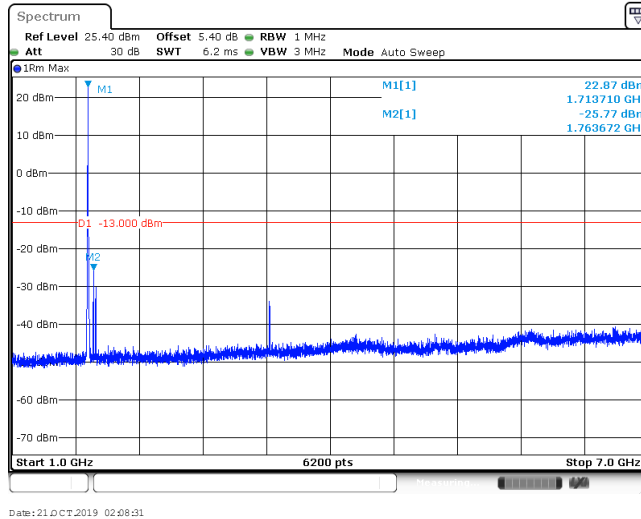
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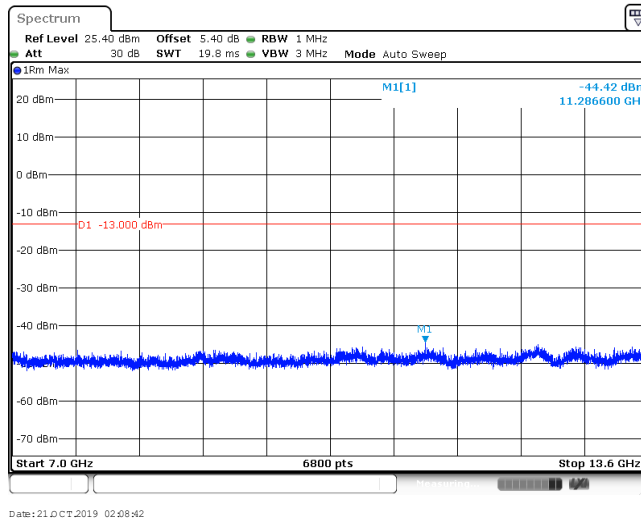


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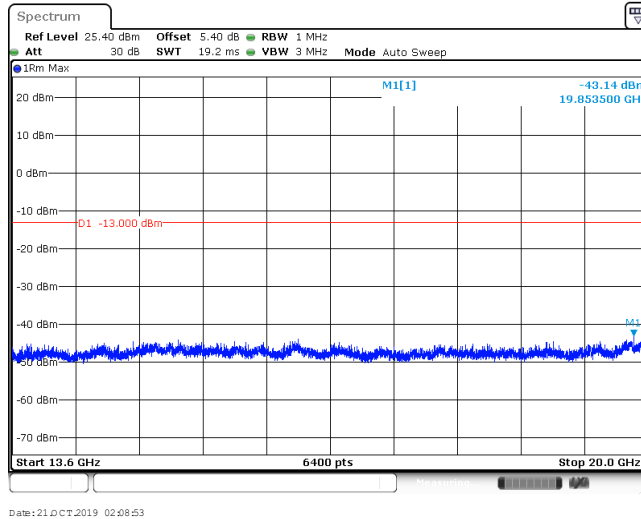


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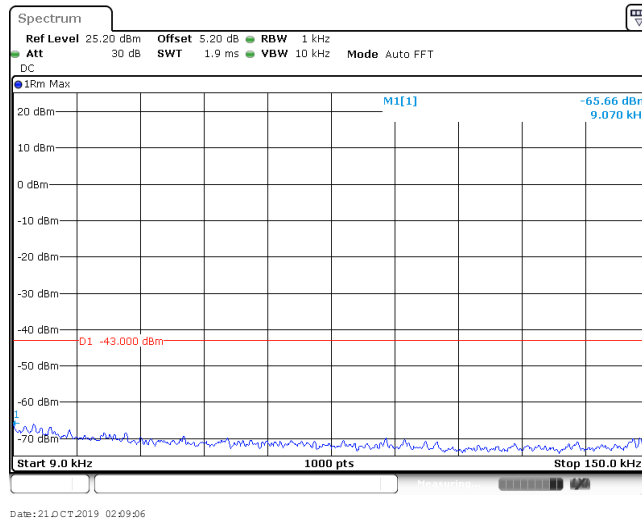
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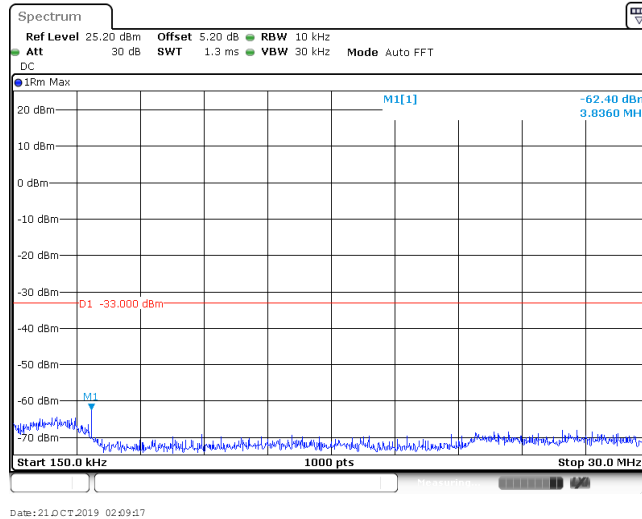
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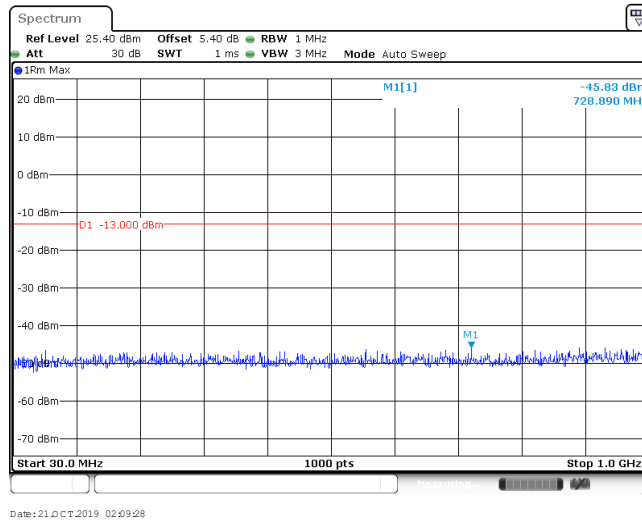
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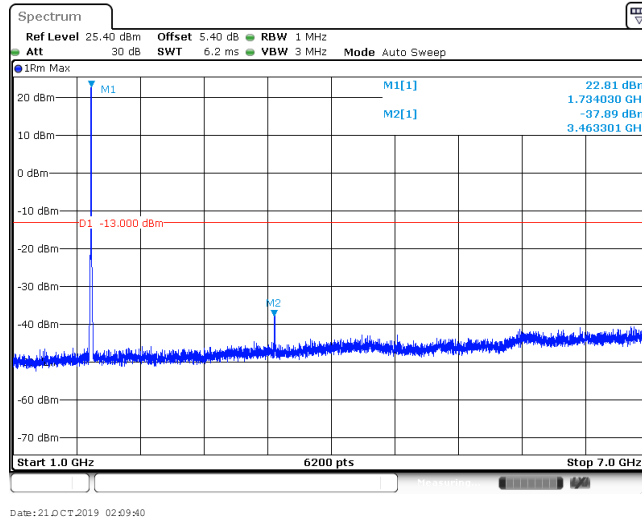
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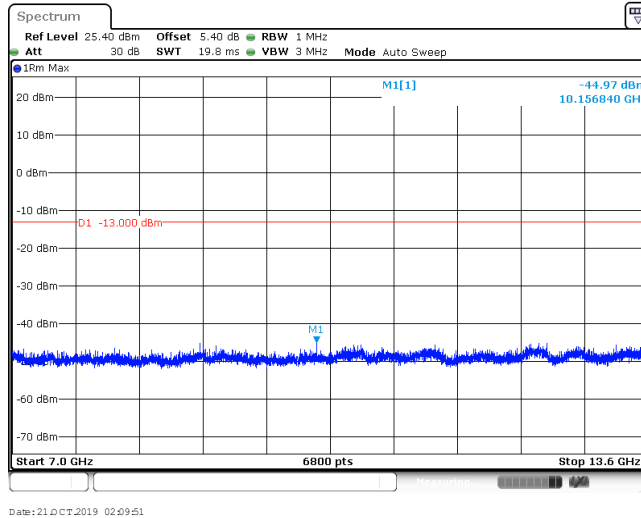


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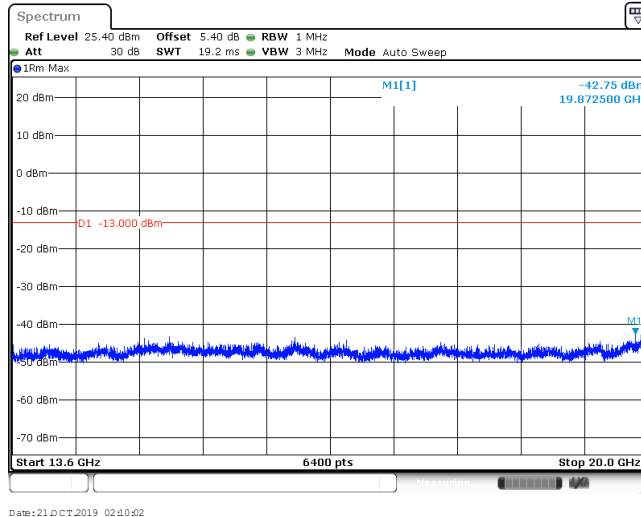


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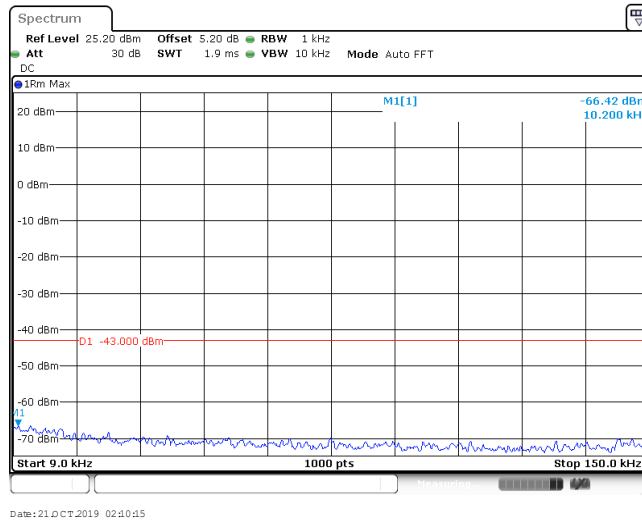
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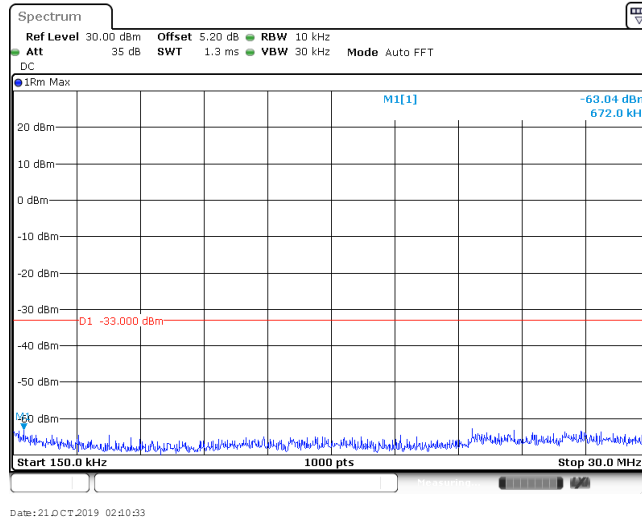
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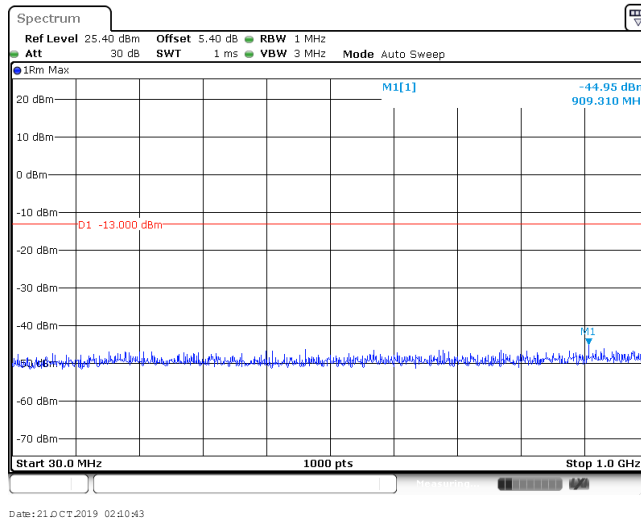


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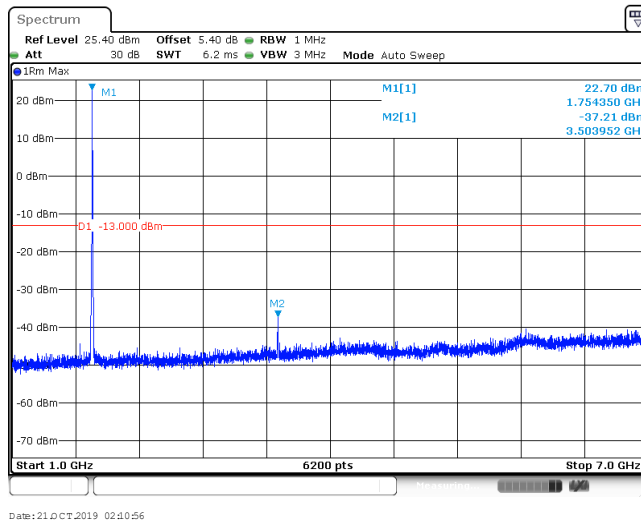


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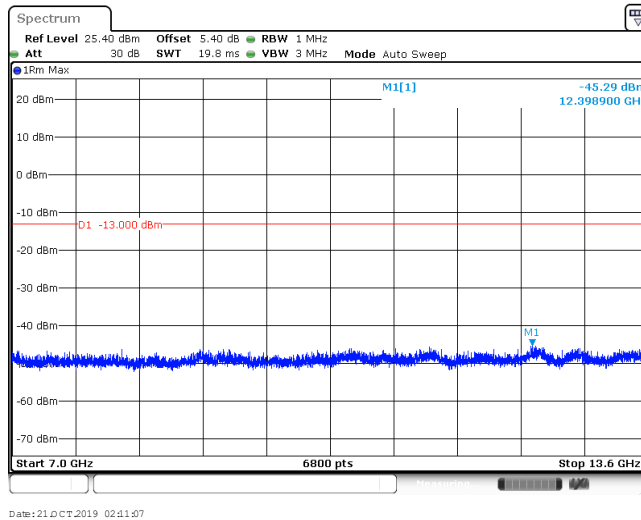


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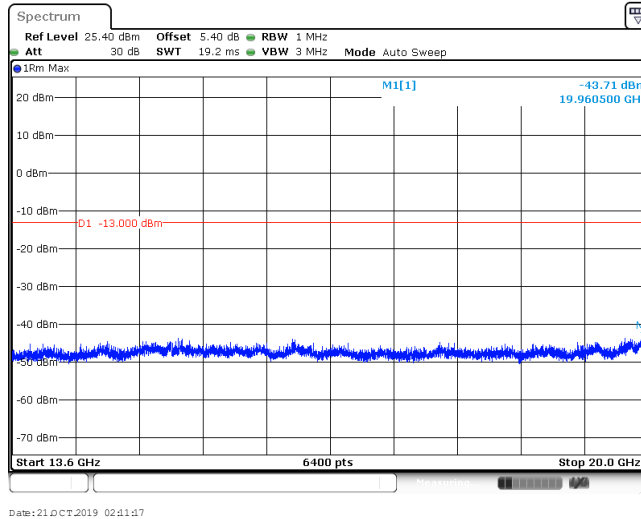


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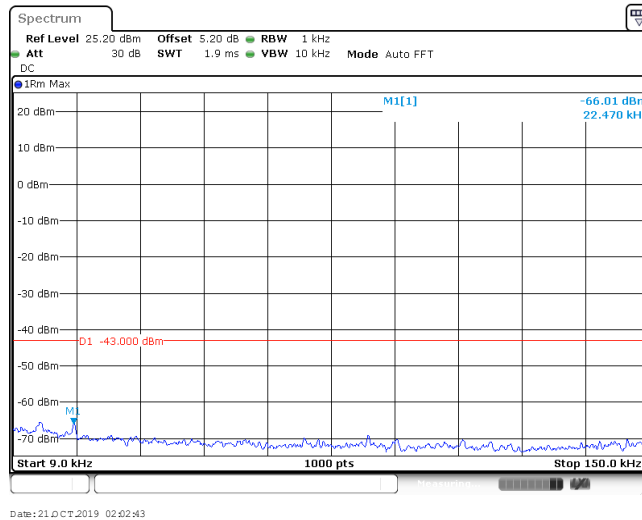


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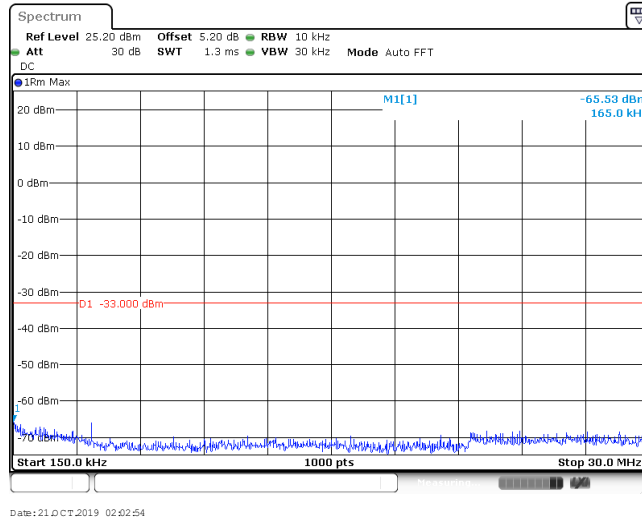


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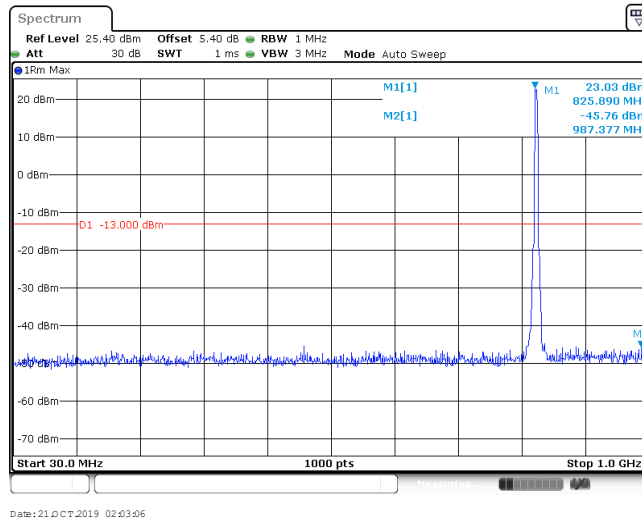
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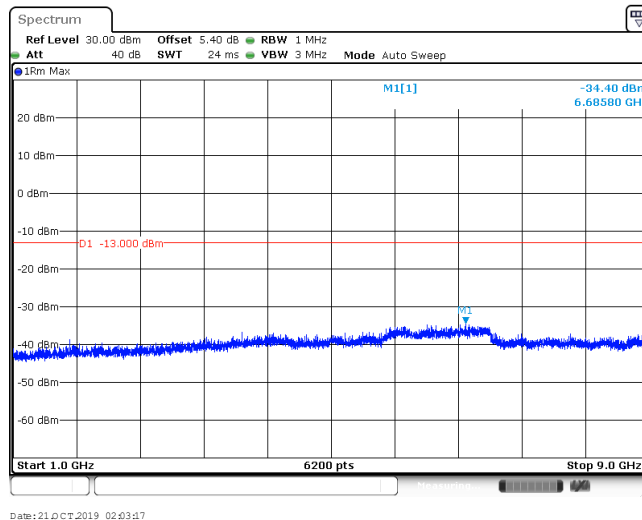
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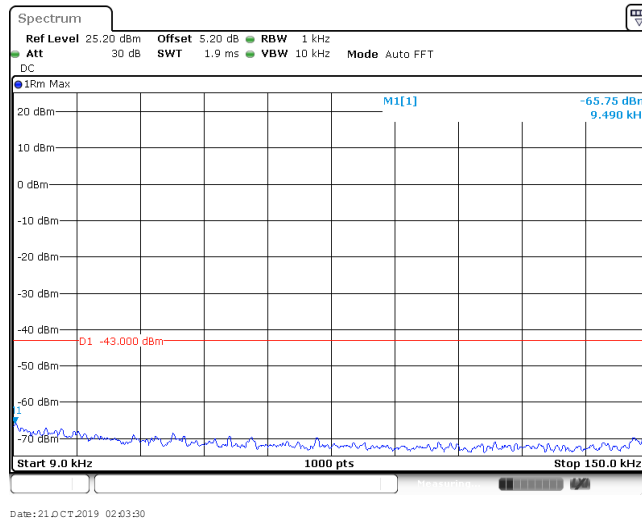


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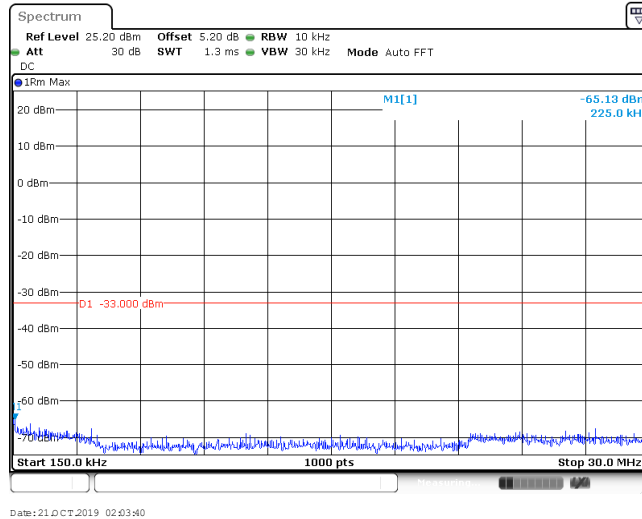


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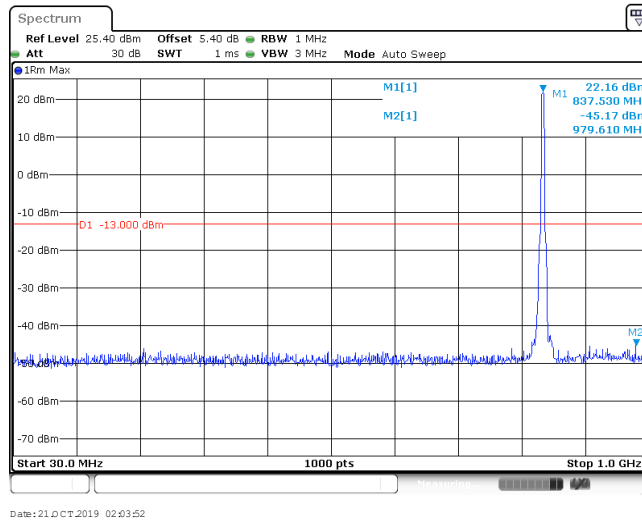
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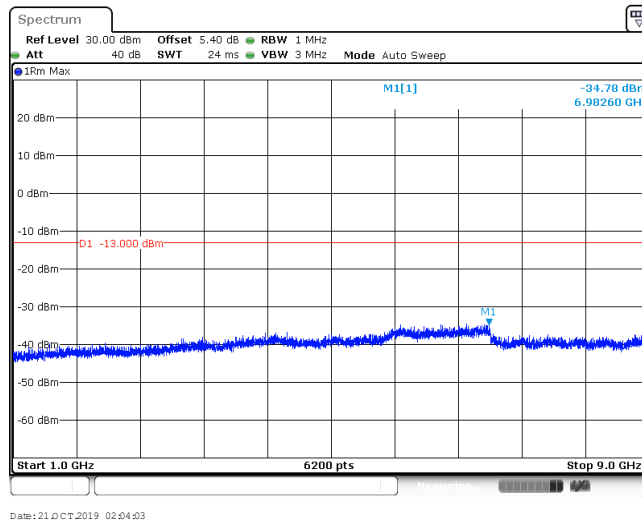
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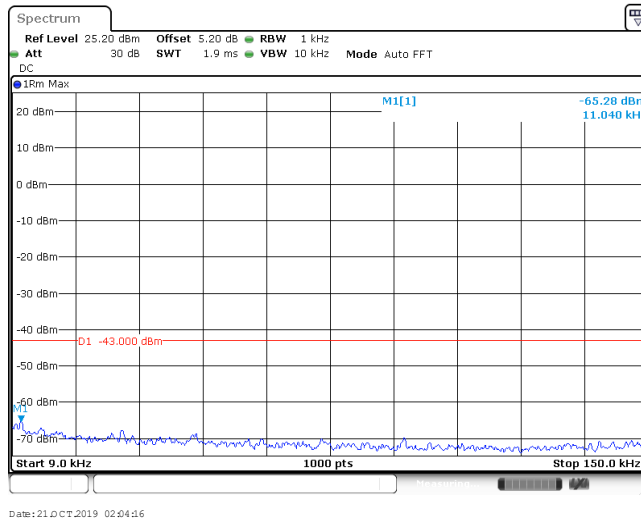
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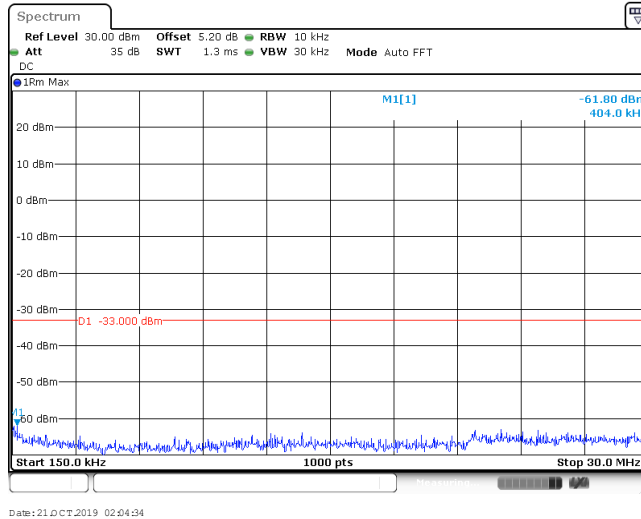
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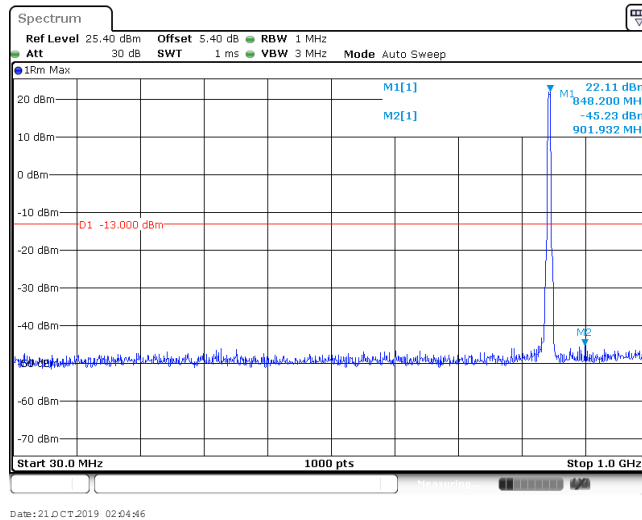
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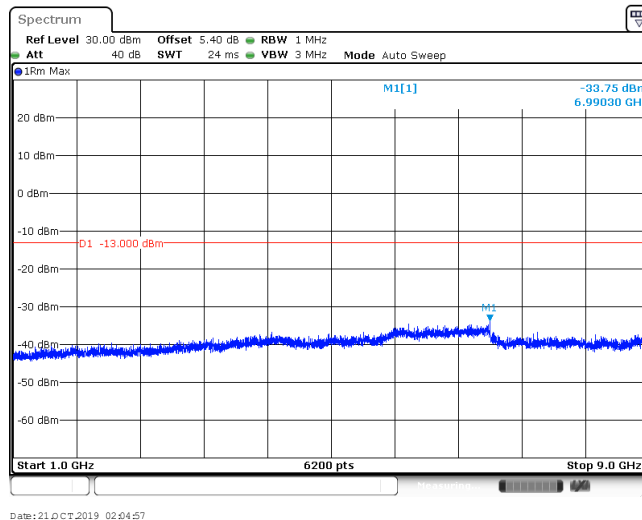
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II

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

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.5764	-70.49	-13.00	57.49	Vertical
110.6110	-63.77	-13.00	50.77	Vertical
407.5429	-66.18	-13.00	53.18	Vertical
2697.9396	-35.99	-13.00	22.99	Vertical
8016.6672	-51.91	-13.00	38.91	Vertical
17996.9999	-32.90	-13.00	19.90	Vertical
42.9016	-63.35	-13.00	50.35	Horizontal
235.2138	-67.22	-13.00	54.22	Horizontal
516.3823	-65.25	-13.00	52.25	Horizontal
2699.5399	-34.76	-13.00	21.76	Horizontal
7982.1661	-53.01	-13.00	40.01	Horizontal
17995.4999	-37.70	-13.00	24.70	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-69.28	-13.00	56.28	Vertical
109.3500	-58.29	-13.00	45.29	Vertical
591.0761	-64.07	-13.00	51.07	Vertical
2699.9400	-35.93	-13.00	22.93	Vertical
8775.1925	-51.67	-13.00	38.67	Vertical
17992.4998	-33.37	-13.00	20.37	Vertical
42.7561	-62.66	-13.00	49.66	Horizontal
238.7544	-67.25	-13.00	54.25	Horizontal
633.6127	-61.96	-13.00	48.96	Horizontal
2699.9400	-34.74	-13.00	21.74	Horizontal
6979.6327	-54.43	-13.00	41.43	Horizontal
16405.9469	-38.19	-13.00	25.19	Horizontal



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### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.9991	-63.84	-13.00	50.84	Vertical
2703.1406	-35.90	-13.00	22.90	Vertical
7368.1456	-53.22	-13.00	40.22	Vertical
10610.7537	-47.53	-13.00	34.53	Vertical
14647.3882	-42.78	-13.00	29.78	Vertical
17998.5000	-33.04	-13.00	20.04	Vertical
39.8460	-63.85	-13.00	50.85	Horizontal
229.1510	-67.57	-13.00	54.57	Horizontal
2713.1426	-34.75	-13.00	21.75	Horizontal
13484.8495	-45.61	-13.00	32.61	Horizontal
16402.9468	-38.73	-13.00	25.73	Horizontal
17997.4999	-37.93	-13.00	24.93	Horizontal

## 7.2. Test Band = WCDMA Band IV

### 7.2.1. Test Mode = WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.8678	-64.34	-13.00	51.34	Vertical
755.8388	-61.17	-13.00	48.17	Vertical
2112.2224	-33.01	-13.00	20.01	Vertical
2694.3389	-35.92	-13.00	22.92	Vertical
14668.8890	-42.58	-13.00	29.58	Vertical
17985.9995	-33.20	-13.00	20.20	Vertical
43.2897	-63.48	-13.00	50.48	Horizontal
240.0155	-67.82	-13.00	54.82	Horizontal
2113.0226	-34.80	-13.00	21.80	Horizontal
2700.7401	-34.74	-13.00	21.74	Horizontal
12849.8283	-45.76	-13.00	32.76	Horizontal
16386.4462	-38.55	-13.00	25.55	Horizontal



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**7.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
115.2673	-63.73	-13.00	50.73	Vertical
909.1065	-59.00	-13.00	46.00	Vertical
2132.6265	-32.79	-13.00	19.79	Vertical
2701.1402	-36.07	-13.00	23.07	Vertical
14645.8882	-42.91	-13.00	29.91	Vertical
17996.9999	-32.97	-13.00	19.97	Vertical
43.0957	-64.06	-13.00	51.06	Horizontal
2132.6265	-35.58	-13.00	22.58	Horizontal
2703.1406	-34.84	-13.00	21.84	Horizontal
3466.5156	-52.61	-13.00	39.61	Horizontal
9304.7102	-49.57	-13.00	36.57	Horizontal
16388.9463	-38.45	-13.00	25.45	Horizontal

**7.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.6253	-64.72	-13.00	51.72	Vertical
2153.8308	-33.79	-13.00	20.79	Vertical
2700.3401	-35.90	-13.00	22.90	Vertical
14665.8889	-42.76	-13.00	29.76	Vertical
17226.9742	-40.41	-13.00	27.41	Vertical
17999.0000	-33.32	-13.00	20.32	Vertical
44.6962	-64.39	-13.00	51.39	Horizontal
237.7844	-67.47	-13.00	54.47	Horizontal
2153.4307	-34.71	-13.00	21.71	Horizontal
2697.9396	-34.67	-13.00	21.67	Horizontal
3506.5169	-53.70	-13.00	40.70	Horizontal
16402.4467	-38.41	-13.00	25.41	Horizontal



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### 7.3. Test Band = WCDMA Band V

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

##### 7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.7751	-64.52	-13.00	51.52	Vertical
995.1498	-56.16	-13.00	43.16	Vertical
1880.1760	-54.09	-13.00	41.09	Vertical
14706.3902	-42.63	-13.00	29.63	Vertical
16910.4637	-40.61	-13.00	27.61	Vertical
17993.4998	-33.23	-13.00	20.23	Vertical
43.8232	-63.05	-13.00	50.05	Horizontal
236.7173	-67.06	-13.00	54.06	Horizontal
999.5150	-55.60	-13.00	42.60	Horizontal
1879.7760	-41.42	-13.00	28.42	Horizontal
2579.1158	-36.61	-13.00	23.61	Horizontal
16406.9469	-38.23	-13.00	25.23	Horizontal

##### 7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.2601	-64.11	-13.00	51.11	Vertical
999.6605	-55.67	-13.00	42.67	Vertical
1748.1496	-57.53	-13.00	44.53	Vertical
1879.3759	-46.95	-13.00	33.95	Vertical
14674.8892	-42.86	-13.00	29.86	Vertical
17989.4997	-32.62	-13.00	19.62	Vertical
42.5136	-63.17	-13.00	50.17	Horizontal
243.0227	-67.05	-13.00	54.05	Horizontal
995.1013	-56.07	-13.00	43.07	Horizontal
1880.1760	-56.95	-13.00	43.95	Horizontal
12883.3294	-45.46	-13.00	32.46	Horizontal
16398.9466	-38.09	-13.00	25.09	Horizontal



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**7.3.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
115.8008	-63.88	-13.00	50.88	Vertical
992.6761	-55.84	-13.00	42.84	Vertical
1879.7760	-42.86	-13.00	29.86	Vertical
2583.5167	-44.21	-13.00	31.21	Vertical
10496.2499	-47.85	-13.00	34.85	Vertical
17983.4995	-33.21	-13.00	20.21	Vertical
41.5921	-63.97	-13.00	50.97	Horizontal
236.5233	-66.73	-13.00	53.73	Horizontal
1880.1760	-41.95	-13.00	28.95	Horizontal
2581.9164	-26.02	-13.00	13.02	Horizontal
12381.8127	-47.21	-13.00	34.21	Horizontal
16395.9465	-38.63	-13.00	25.63	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 had been displayed.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-3.08	-0.001664	±2.5	PASS
Band II	9262	VN	TN	-10.35	-0.005587	±2.5	PASS
Band II	9262	VH	TN	-10.01	-0.005402	±2.5	PASS
Band II	9400	VL	TN	-14.33	-0.007621	±2.5	PASS
Band II	9400	VN	TN	-6.94	-0.003690	±2.5	PASS
Band II	9400	VH	TN	-7.43	-0.003953	±2.5	PASS
Band II	9538	VL	TN	-11.23	-0.005887	±2.5	PASS
Band II	9538	VN	TN	-10.34	-0.005418	±2.5	PASS
Band II	9538	VH	TN	-12.63	-0.006622	±2.5	PASS
Band IV	1312	VL	TN	-12.64	-0.007381	±2.5	PASS
Band IV	1312	VN	TN	-19.97	-0.011662	±2.5	PASS
Band IV	1312	VH	TN	-15.76	-0.009202	±2.5	PASS
Band IV	1413	VL	TN	-11.94	-0.006890	±2.5	PASS
Band IV	1413	VN	TN	-7.96	-0.004595	±2.5	PASS
Band IV	1413	VH	TN	-8.86	-0.005115	±2.5	PASS
Band IV	1513	VL	TN	-5.06	-0.002889	±2.5	PASS
Band IV	1513	VN	TN	-7.67	-0.004379	±2.5	PASS
Band IV	1513	VH	TN	-7.42	-0.004236	±2.5	PASS
Band V	4132	VL	TN	-9.58	-0.011589	±2.5	PASS
Band V	4132	VN	TN	-7.74	-0.009365	±2.5	PASS
Band V	4132	VH	TN	-4.67	-0.005652	±2.5	PASS
Band V	4182	VL	TN	-7.11	-0.008500	±2.5	PASS
Band V	4182	VN	TN	-12.11	-0.014478	±2.5	PASS
Band V	4182	VH	TN	-10.14	-0.012126	±2.5	PASS
Band V	4233	VL	TN	-3.71	-0.004376	±2.5	PASS
Band V	4233	VN	TN	-3.85	-0.004545	±2.5	PASS
Band V	4233	VH	TN	-3.26	-0.003853	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-8.03	-0.004332	±2.5	PASS
Band II	9262	VN	-20	-10.44	-0.005637	±2.5	PASS
Band II	9262	VN	-10	-5.97	-0.003224	±2.5	PASS
Band II	9262	VN	0	-5.97	-0.003220	±2.5	PASS
Band II	9262	VN	10	-10.89	-0.005881	±2.5	PASS
Band II	9262	VN	20	-11.91	-0.006429	±2.5	PASS
Band II	9262	VN	30	-11.57	-0.006247	±2.5	PASS
Band II	9262	VN	40	-7.92	-0.004274	±2.5	PASS
Band II	9262	VN	50	-14.22	-0.007676	±2.5	PASS
Band II	9400	VN	-30	-4.98	-0.002648	±2.5	PASS
Band II	9400	VN	-20	-9.18	-0.004885	±2.5	PASS
Band II	9400	VN	-10	-5.63	-0.002994	±2.5	PASS
Band II	9400	VN	0	-9.30	-0.004946	±2.5	PASS
Band II	9400	VN	10	-7.00	-0.003721	±2.5	PASS
Band II	9400	VN	20	-10.74	-0.005714	±2.5	PASS
Band II	9400	VN	30	-11.05	-0.005878	±2.5	PASS
Band II	9400	VN	40	-9.73	-0.005174	±2.5	PASS
Band II	9400	VN	50	-14.93	-0.007940	±2.5	PASS
Band II	9538	VN	-30	-11.29	-0.005920	±2.5	PASS
Band II	9538	VN	-20	-10.88	-0.005703	±2.5	PASS
Band II	9538	VN	-10	-14.94	-0.007833	±2.5	PASS
Band II	9538	VN	0	-15.01	-0.007866	±2.5	PASS
Band II	9538	VN	10	-13.92	-0.007297	±2.5	PASS
Band II	9538	VN	20	-12.80	-0.006712	±2.5	PASS
Band II	9538	VN	30	-9.08	-0.004758	±2.5	PASS
Band II	9538	VN	40	-7.81	-0.004094	±2.5	PASS
Band II	9538	VN	50	-9.54	-0.005002	±2.5	PASS
Band IV	1312	VN	-30	-15.88	-0.009273	±2.5	PASS
Band IV	1312	VN	-20	-12.54	-0.007322	±2.5	PASS
Band IV	1312	VN	-10	-11.65	-0.006804	±2.5	PASS
Band IV	1312	VN	0	-12.48	-0.007289	±2.5	PASS
Band IV	1312	VN	10	-7.21	-0.004210	±2.5	PASS
Band IV	1312	VN	20	-13.86	-0.008095	±2.5	PASS
Band IV	1312	VN	30	-8.33	-0.004866	±2.5	PASS
Band IV	1312	VN	40	-9.85	-0.005752	±2.5	PASS
Band IV	1312	VN	50	-8.40	-0.004908	±2.5	PASS
Band IV	1413	VN	-30	-11.48	-0.006626	±2.5	PASS
Band IV	1413	VN	-20	-10.16	-0.005862	±2.5	PASS
Band IV	1413	VN	-10	-8.23	-0.004747	±2.5	PASS
Band IV	1413	VN	0	-6.04	-0.003488	±2.5	PASS
Band IV	1413	VN	10	-12.40	-0.007158	±2.5	PASS



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Band IV	1413	VN	20	-12.37	-0.007142	±2.5	PASS
Band IV	1413	VN	30	-7.81	-0.004508	±2.5	PASS
Band IV	1413	VN	40	-8.37	-0.004830	±2.5	PASS
Band IV	1413	VN	50	-8.18	-0.004723	±2.5	PASS
Band IV	1513	VN	-30	-5.59	-0.003187	±2.5	PASS
Band IV	1513	VN	-20	-10.24	-0.005844	±2.5	PASS
Band IV	1513	VN	-10	-15.11	-0.008623	±2.5	PASS
Band IV	1513	VN	0	-10.69	-0.006101	±2.5	PASS
Band IV	1513	VN	10	-8.80	-0.005020	±2.5	PASS
Band IV	1513	VN	20	-10.82	-0.006175	±2.5	PASS
Band IV	1513	VN	30	-8.25	-0.004706	±2.5	PASS
Band IV	1513	VN	40	-8.82	-0.005032	±2.5	PASS
Band IV	1513	VN	50	-9.09	-0.005187	±2.5	PASS
Band V	4132	VN	-30	-3.21	-0.003886	±2.5	PASS
Band V	4132	VN	-20	-5.52	-0.006682	±2.5	PASS
Band V	4132	VN	-10	-5.87	-0.007097	±2.5	PASS
Band V	4132	VN	0	-6.69	-0.008092	±2.5	PASS
Band V	4132	VN	10	-6.16	-0.007452	±2.5	PASS
Band V	4132	VN	20	-7.22	-0.008733	±2.5	PASS
Band V	4132	VN	30	-6.08	-0.007357	±2.5	PASS
Band V	4132	VN	40	-6.44	-0.007790	±2.5	PASS
Band V	4132	VN	50	-7.87	-0.009521	±2.5	PASS
Band V	4182	VN	-30	-6.04	-0.007218	±2.5	PASS
Band V	4182	VN	-20	-8.55	-0.010228	±2.5	PASS
Band V	4182	VN	-10	-2.27	-0.002719	±2.5	PASS
Band V	4182	VN	0	-4.54	-0.005430	±2.5	PASS
Band V	4182	VN	10	-3.99	-0.004772	±2.5	PASS
Band V	4182	VN	20	-5.49	-0.006568	±2.5	PASS
Band V	4182	VN	30	-2.93	-0.003498	±2.5	PASS
Band V	4182	VN	40	-5.32	-0.006362	±2.5	PASS
Band V	4182	VN	50	-2.80	-0.003352	±2.5	PASS
Band V	4233	VN	-30	-9.18	-0.010840	±2.5	PASS
Band V	4233	VN	-20	-7.95	-0.009395	±2.5	PASS
Band V	4233	VN	-10	-13.92	-0.016441	±2.5	PASS
Band V	4233	VN	0	-11.98	-0.014151	±2.5	PASS
Band V	4233	VN	10	-7.43	-0.008778	±2.5	PASS
Band V	4233	VN	20	-6.62	-0.007815	±2.5	PASS
Band V	4233	VN	30	-3.65	-0.004317	±2.5	PASS
Band V	4233	VN	40	-11.19	-0.013222	±2.5	PASS
Band V	4233	VN	50	-8.40	-0.009927	±2.5	PASS

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