

# 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	23.28	21.18	33.00	PASS
Band II	9400	23.26	21.16	33.00	PASS
Band II	9538	23.16	21.06	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.17	17.42	38.45	PASS
Band V	4182	23.37	17.62	38.45	PASS
Band V	4233	23.28	17.53	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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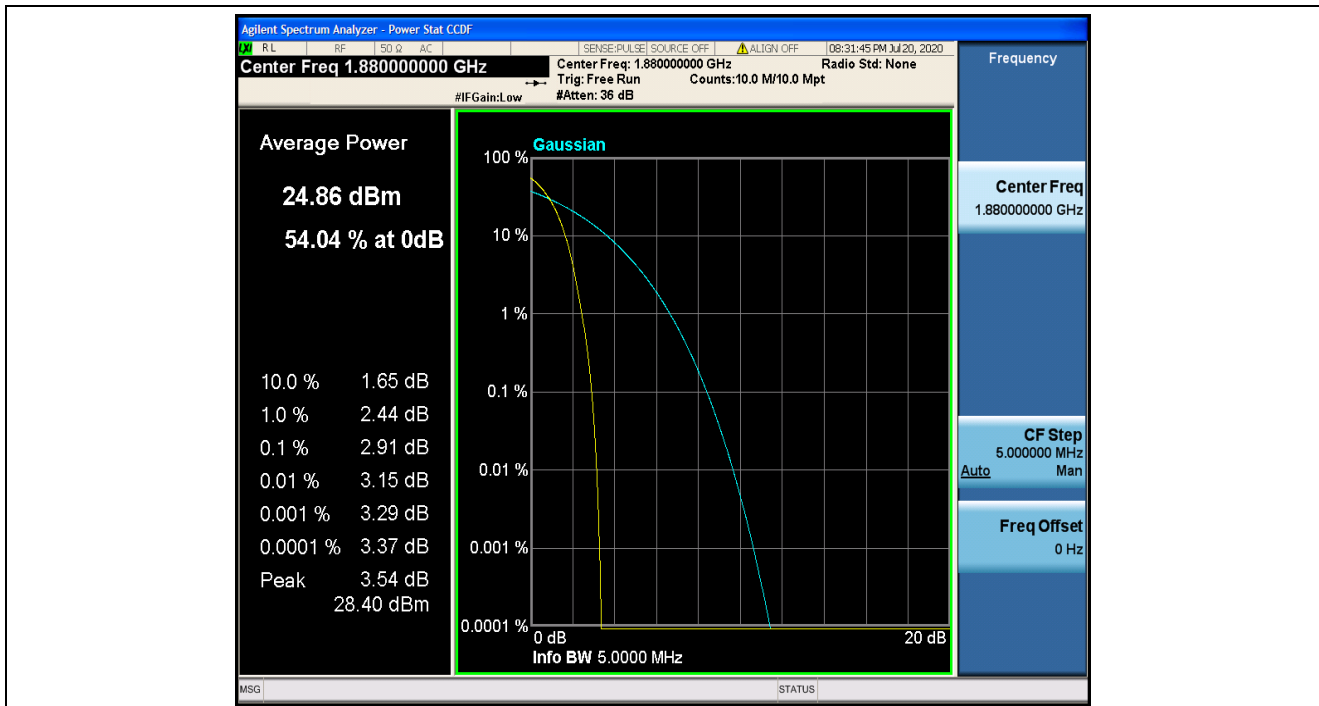
## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

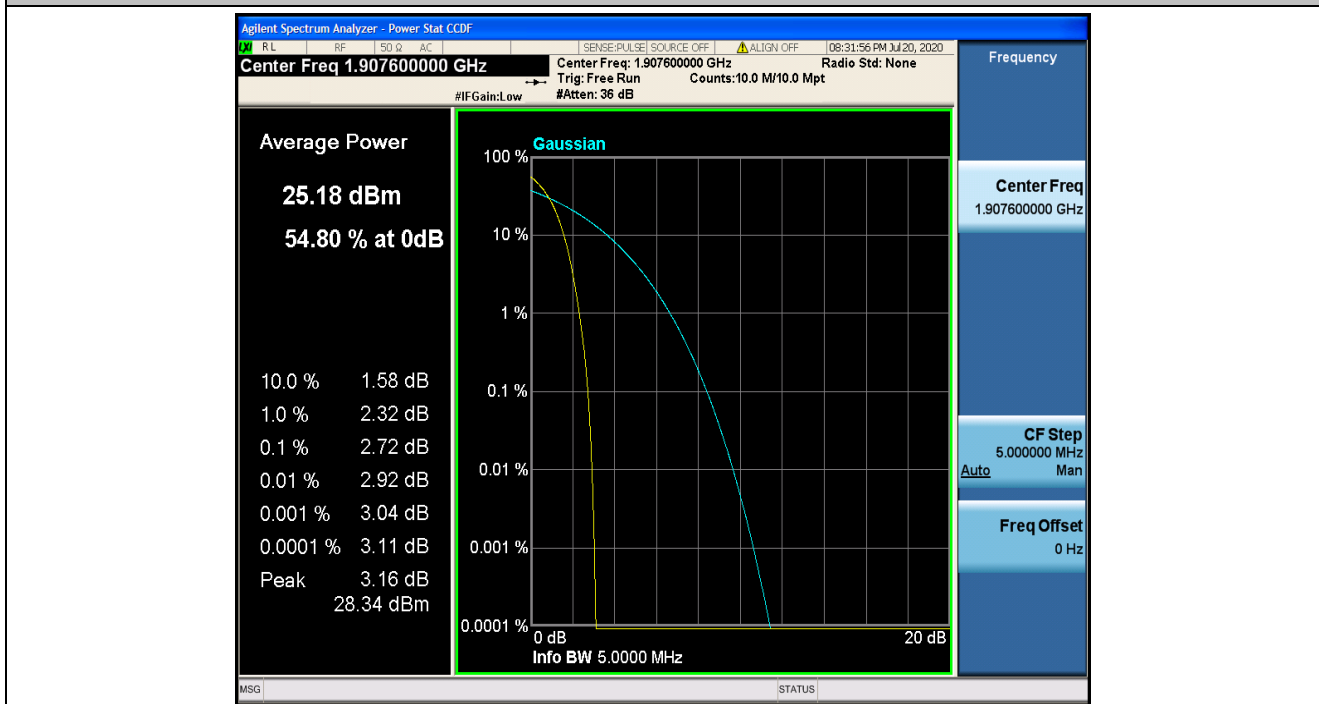
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.77	13	PASS
Band II	9400	2.91	13	PASS
Band II	9538	2.72	13	PASS
Band V	4132	3.18	13	PASS
Band V	4182	3.18	13	PASS
Band V	4233	3.15	13	PASS

### 2.2. Test Plots





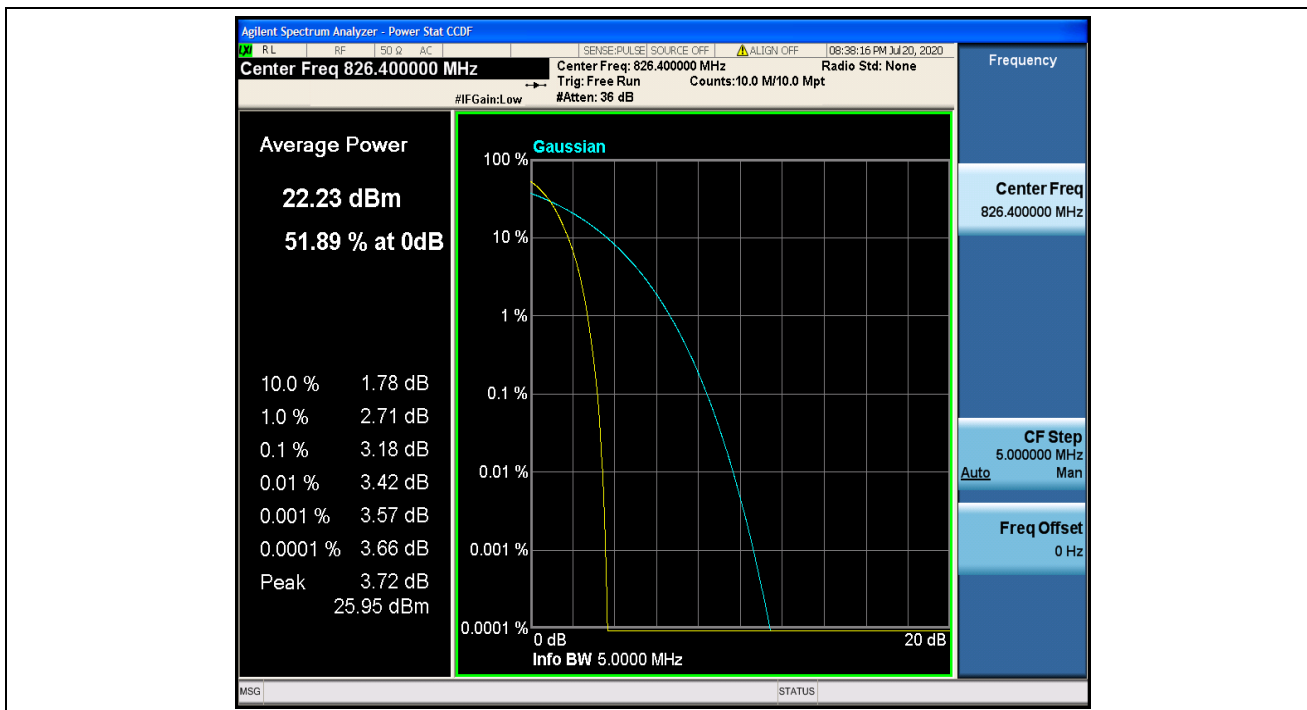
Band II\_9400



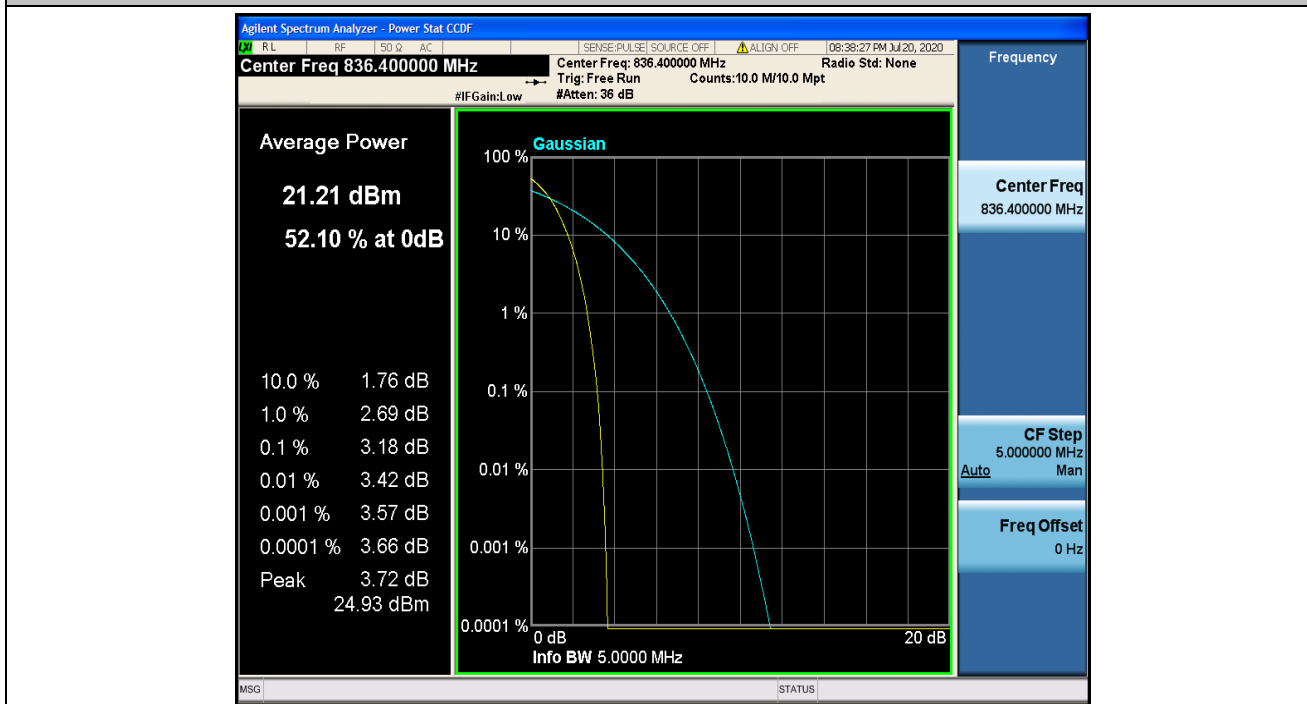
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Band V\_4132



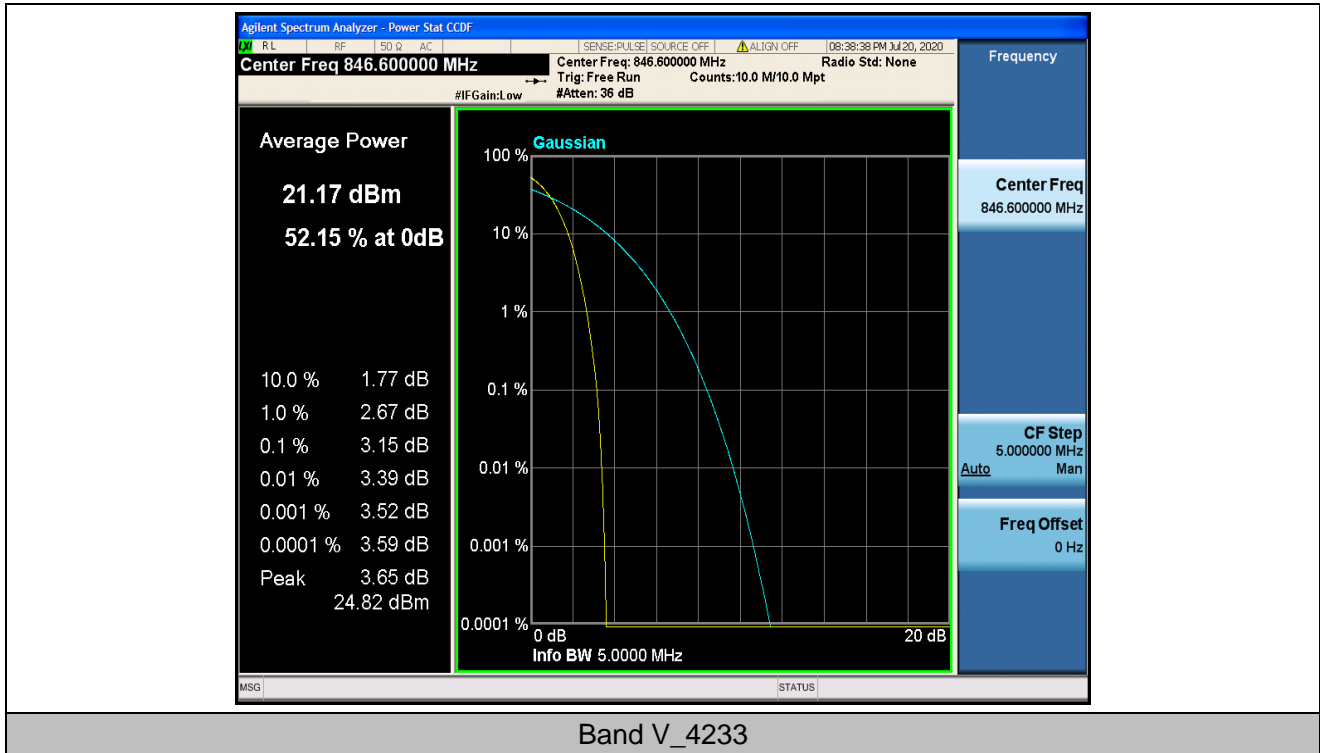
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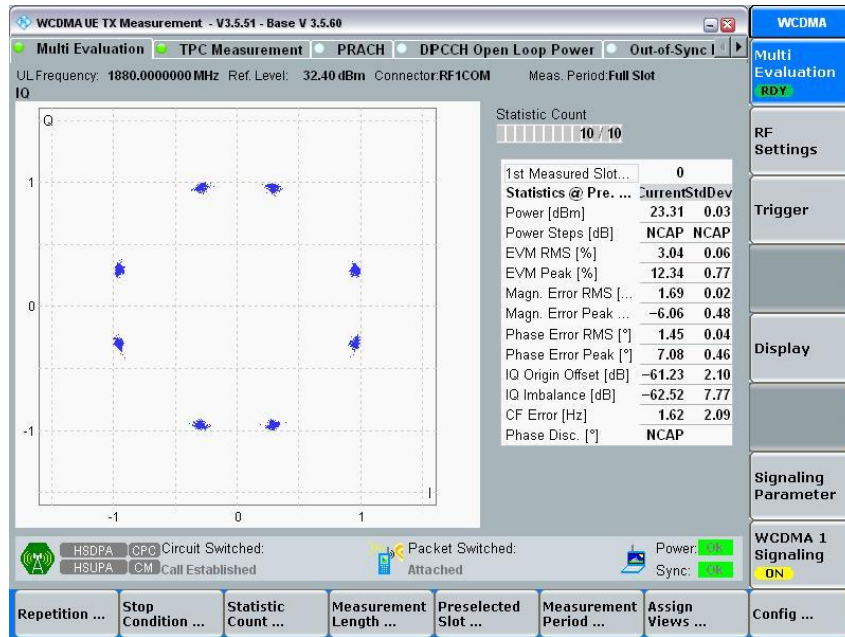
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### 3. Modulation Characteristics

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

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

##### 3.1.1.1. Test Channel = MCH



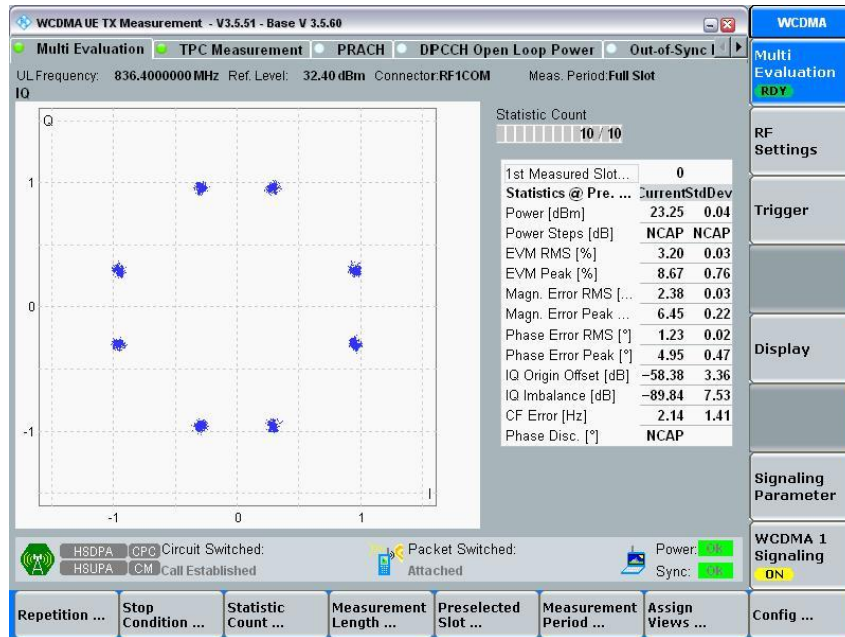
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### 3.2. Test Band = WCDMA Band V

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

##### 3.2.1.1. Test Channel = MCH



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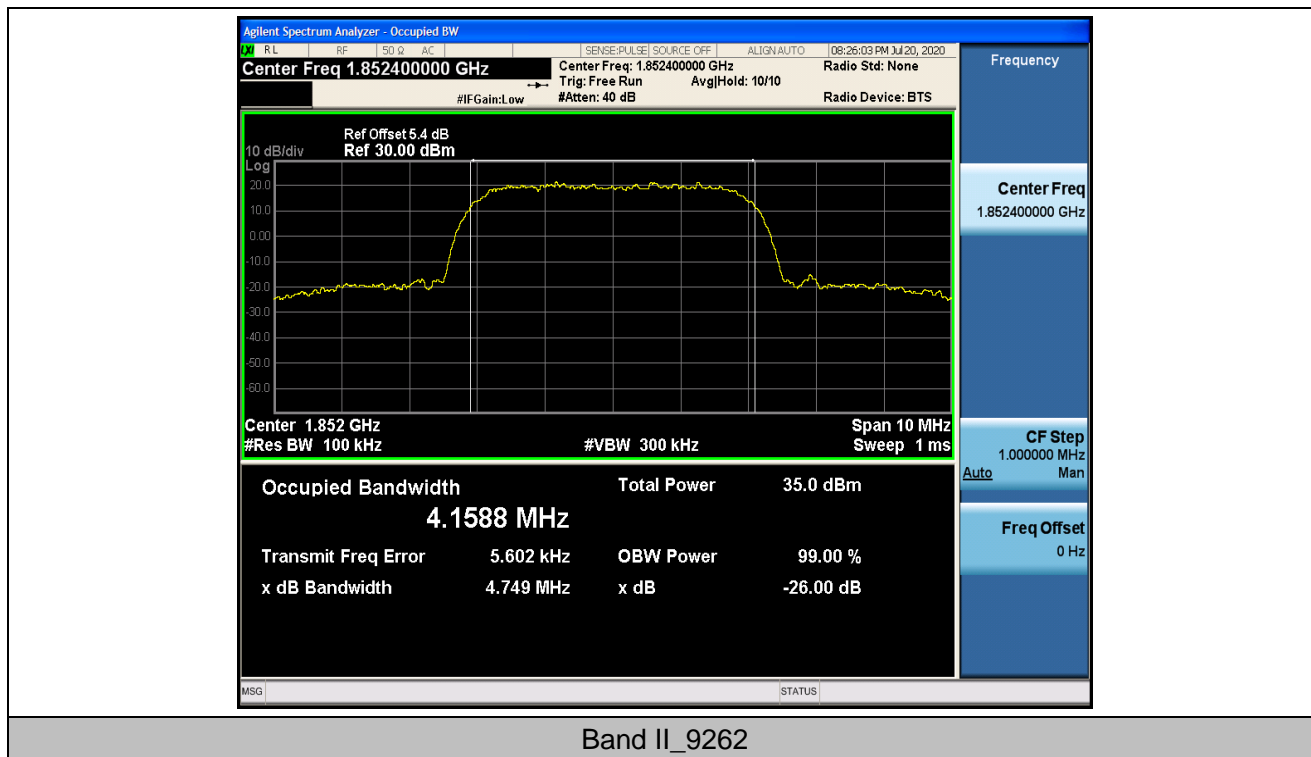
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

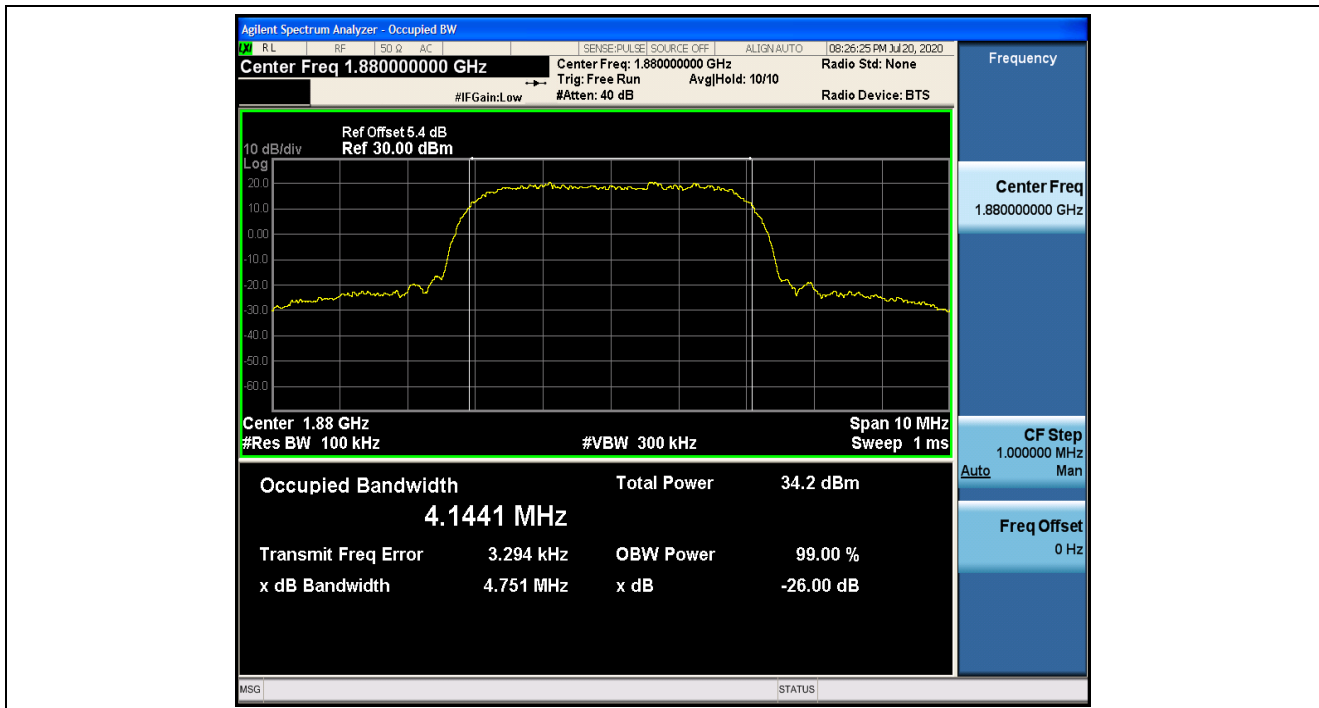
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4158.8	4749	---	PASS
Band II	9400	4144.1	4751	---	PASS
Band II	9538	4142.1	4742	---	PASS
Band V	4132	4126.6	4699	---	PASS
Band V	4182	4124.3	4715	---	PASS
Band V	4233	4153.7	4721	---	PASS

### 4.2. Test Plots

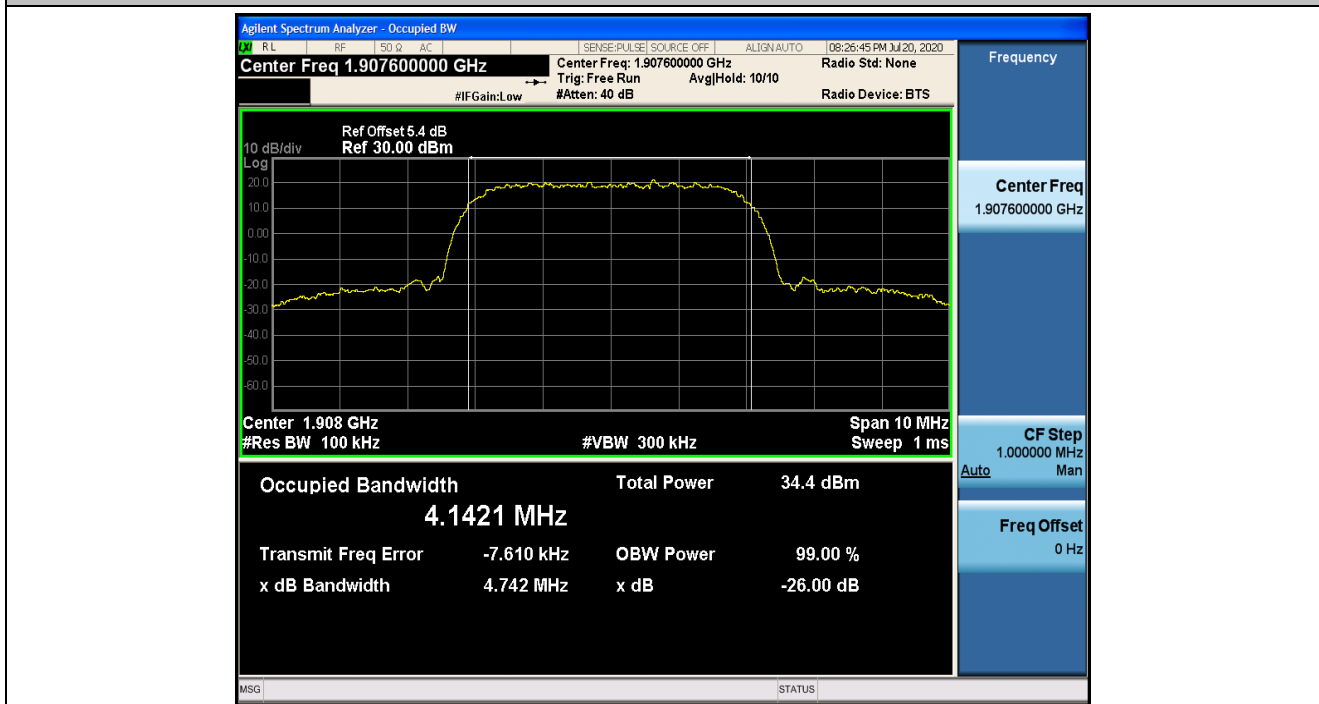


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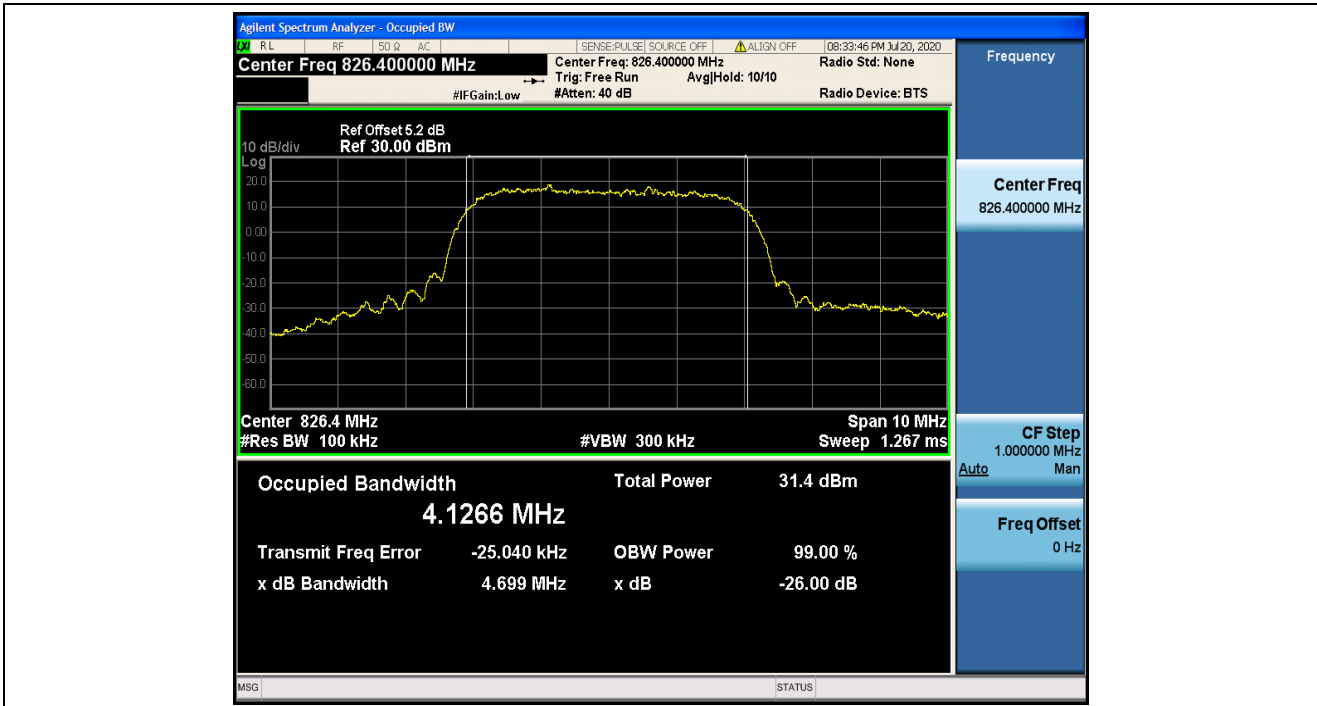
Band II\_9400



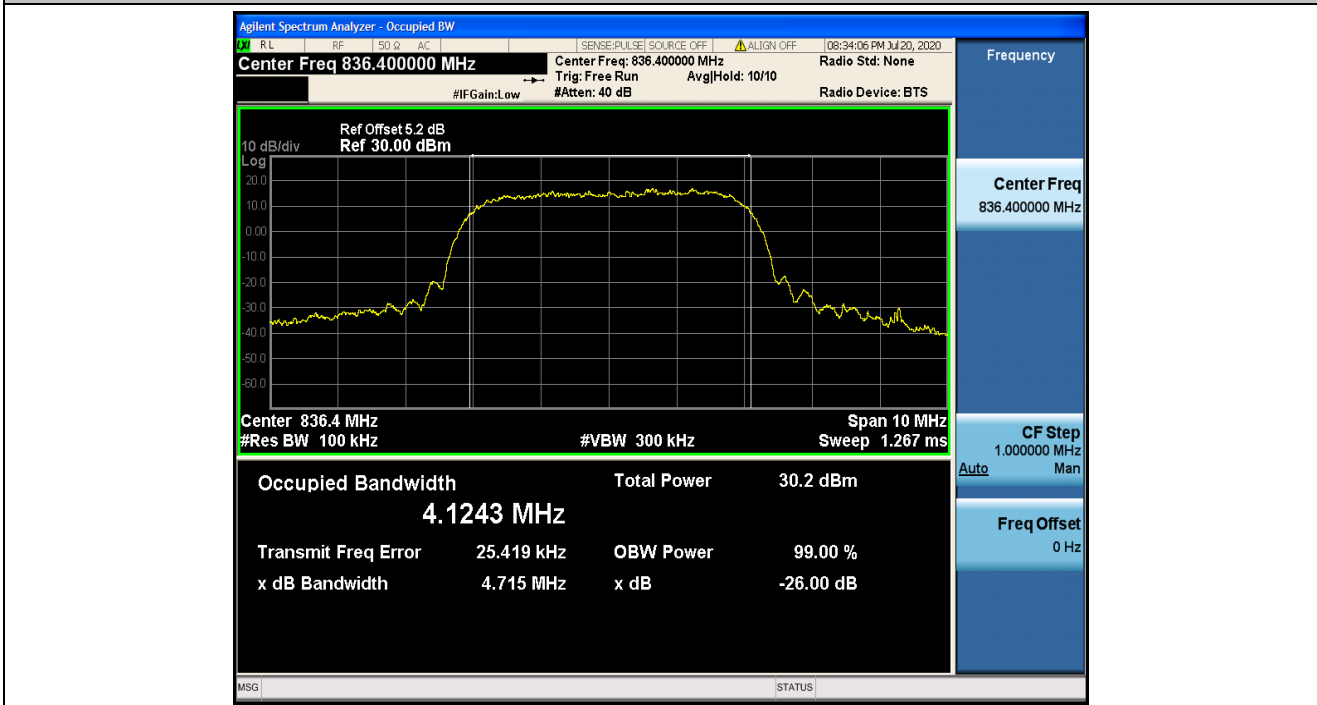
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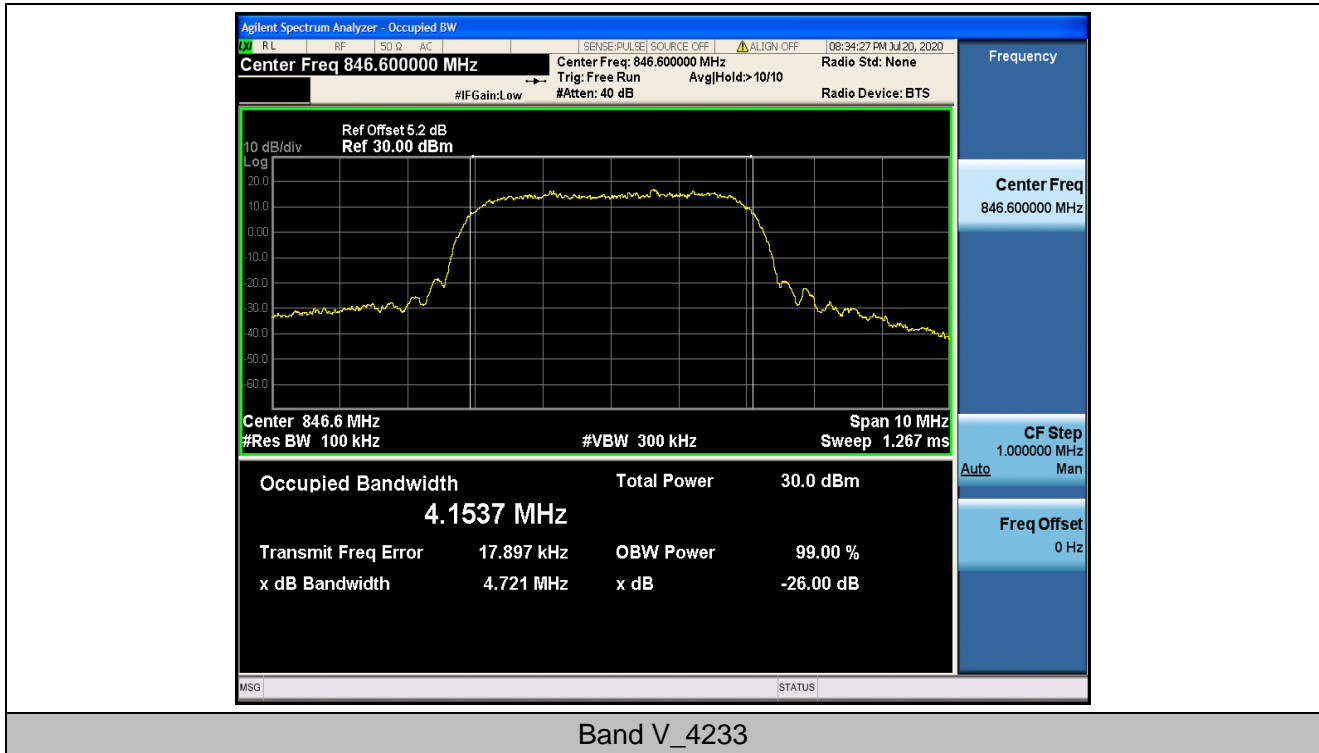
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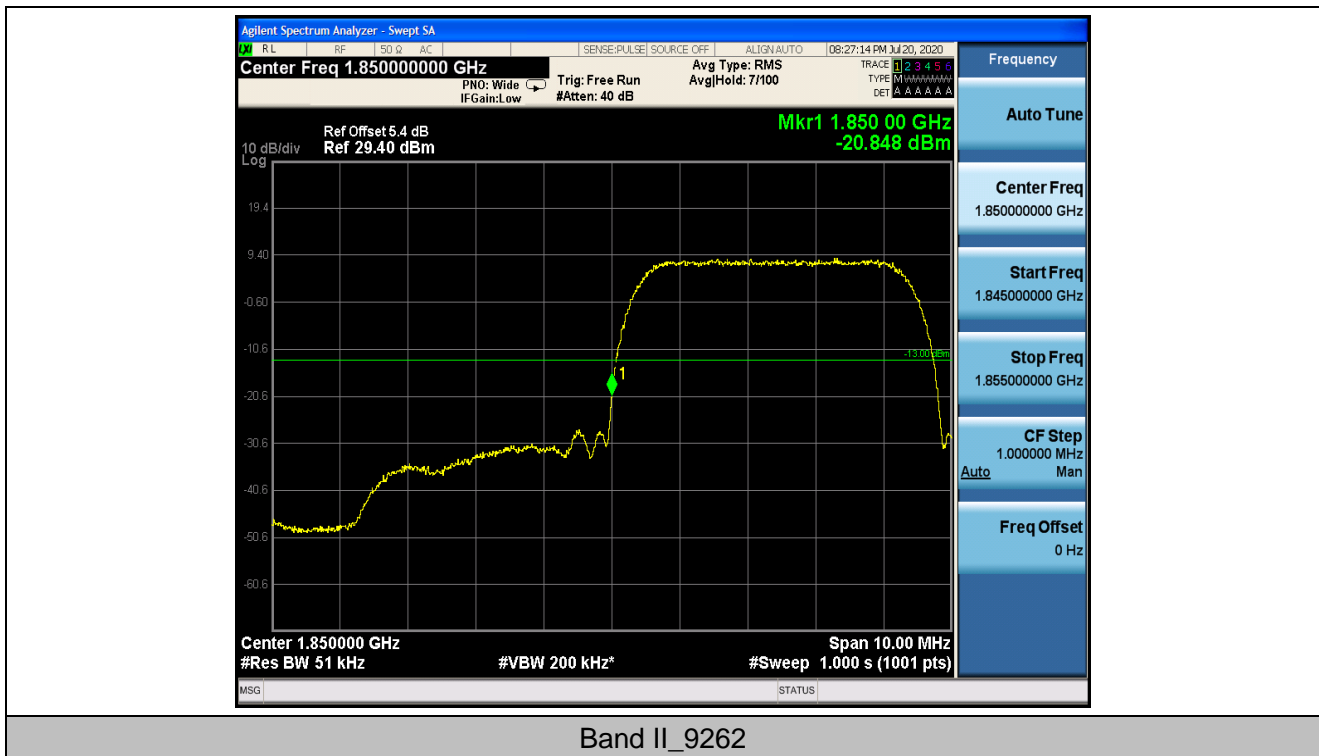
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## 5. Band Edge Compliance

### 5.1. Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-20.85	-13	PASS
Band II	9538	-21.00	-13	PASS
Band V	4132	-26.45	-13	PASS
Band V	4233	-27.09	-13	PASS

### 5.2. Test Plots



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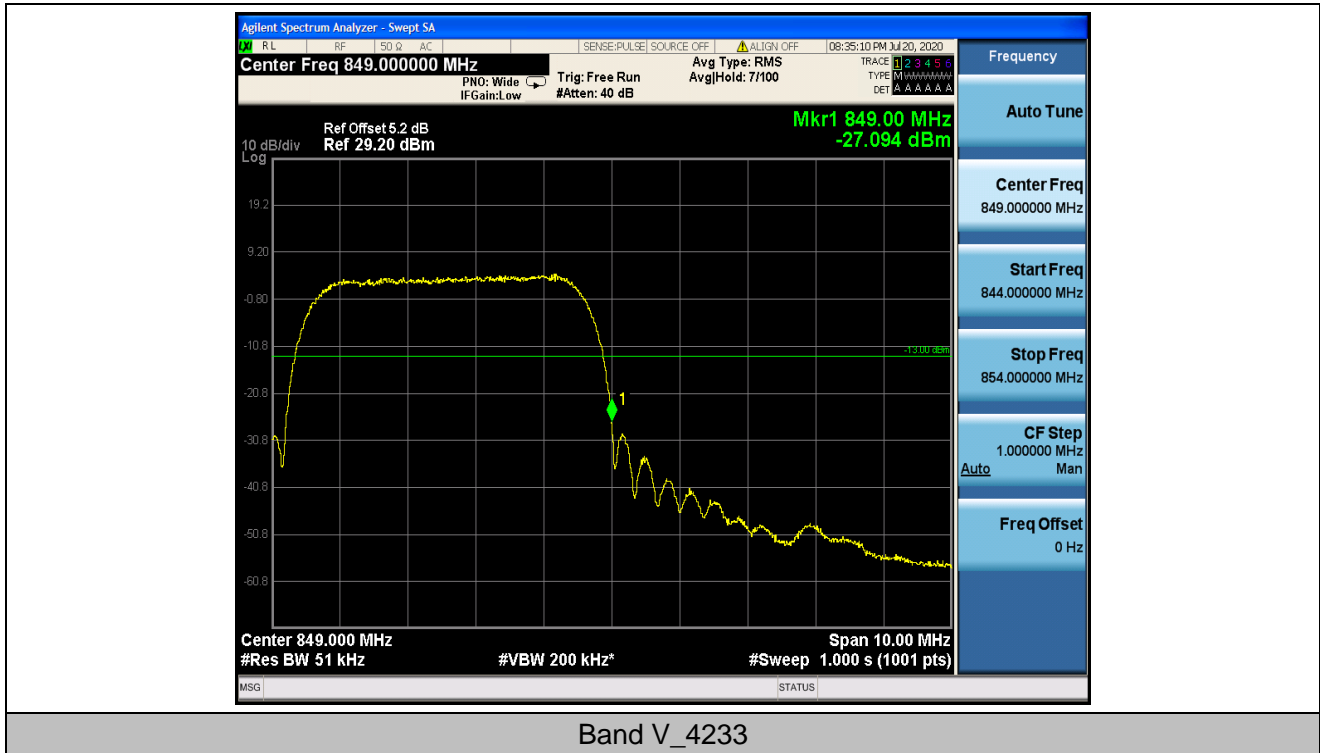


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## 6. Spurious Emission at Antenna Terminal

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 Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	0.009~0.15	-45.87	-43	PASS
Band II	9262	0.15~30	-45.22	-33	PASS
Band II	9262	30~1000	-29.23	-13	PASS
Band II	9262	1000~7000	-35.61	-13	PASS
Band II	9262	7000~13600	-45.45	-13	PASS
Band II	9262	13600~20000	-42.02	-13	PASS
Band II	9400	0.009~0.15	-46.54	-43	PASS
Band II	9400	0.15~30	-42.74	-33	PASS
Band II	9400	30~1000	-31.15	-13	PASS
Band II	9400	1000~7000	-35.72	-13	PASS
Band II	9400	7000~13600	-45.60	-13	PASS
Band II	9400	13600~20000	-42.44	-13	PASS
Band II	9538	0.009~0.15	-46.60	-43	PASS
Band II	9538	0.15~30	-42.94	-33	PASS
Band II	9538	30~1000	-29.10	-13	PASS
Band II	9538	1000~7000	-35.89	-13	PASS
Band II	9538	7000~13600	-45.27	-13	PASS
Band II	9538	13600~20000	-41.99	-13	PASS
Band V	4132	0.009~0.15	-45.77	-33	PASS
Band V	4132	0.15~30	-43.74	-23	PASS
Band V	4132	30~1000	-30.00	-13	PASS
Band V	4132	1000~9000	-35.97	-13	PASS
Band V	4182	0.009~0.15	-45.89	-33	PASS
Band V	4182	0.15~30	-42.26	-23	PASS
Band V	4182	30~1000	-30.84	-13	PASS
Band V	4182	1000~9000	-36.80	-13	PASS
Band V	4233	0.009~0.15	-45.28	-33	PASS



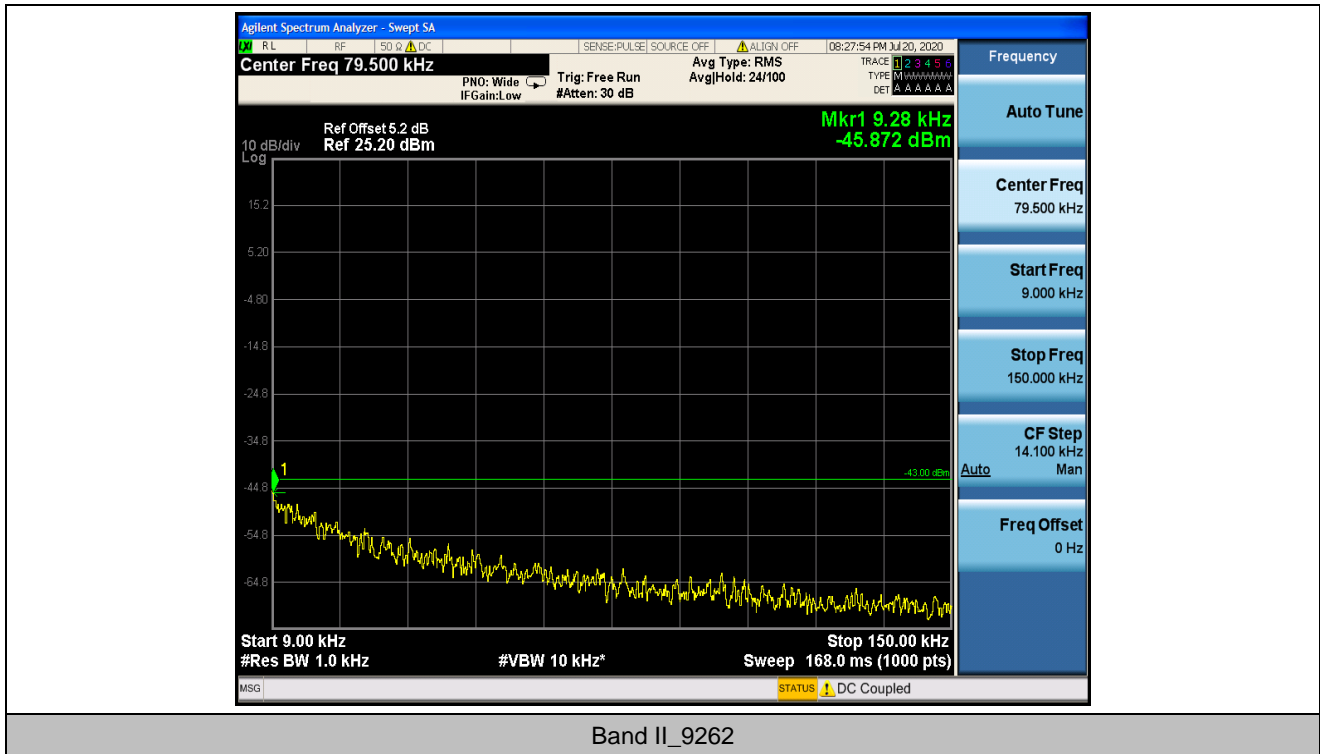
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Band V	4233	0.15~30	-41.76	-23	PASS
Band V	4233	30~1000	-30.50	-13	PASS
Band V	4233	1000~9000	-35.88	-13	PASS

## 6.2. Test Plots

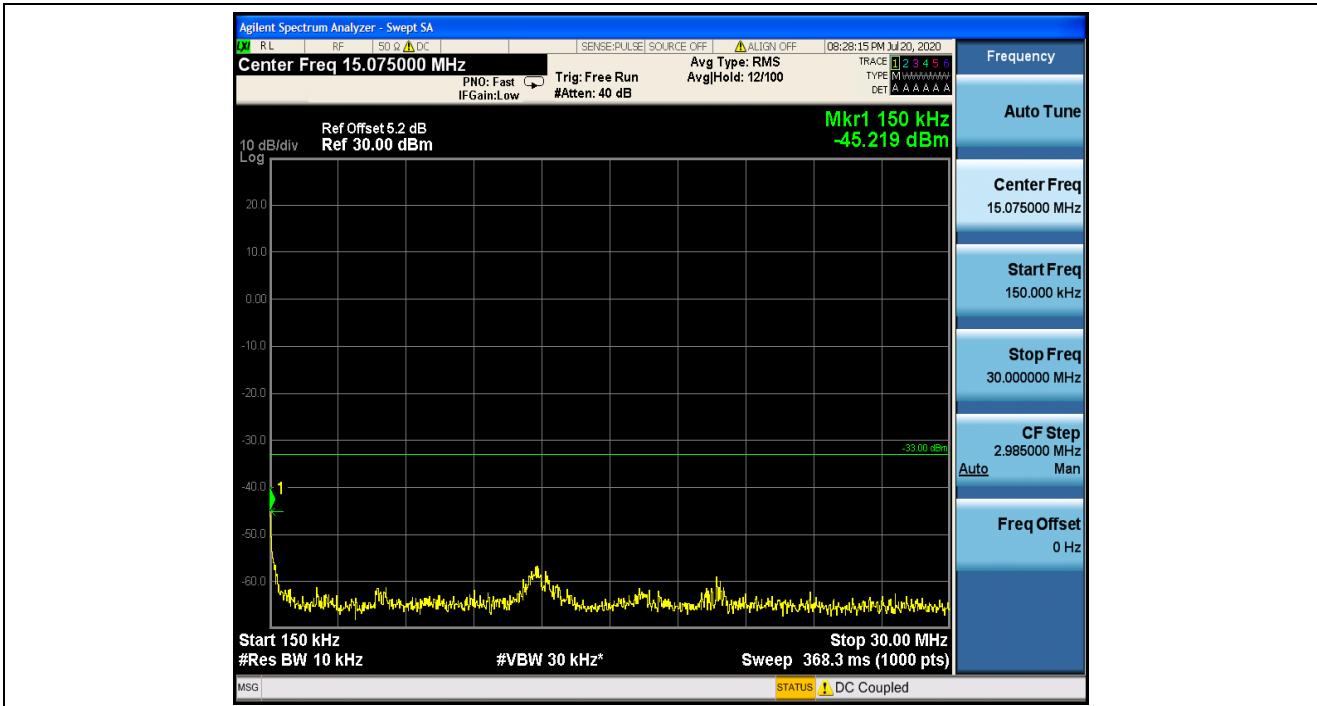


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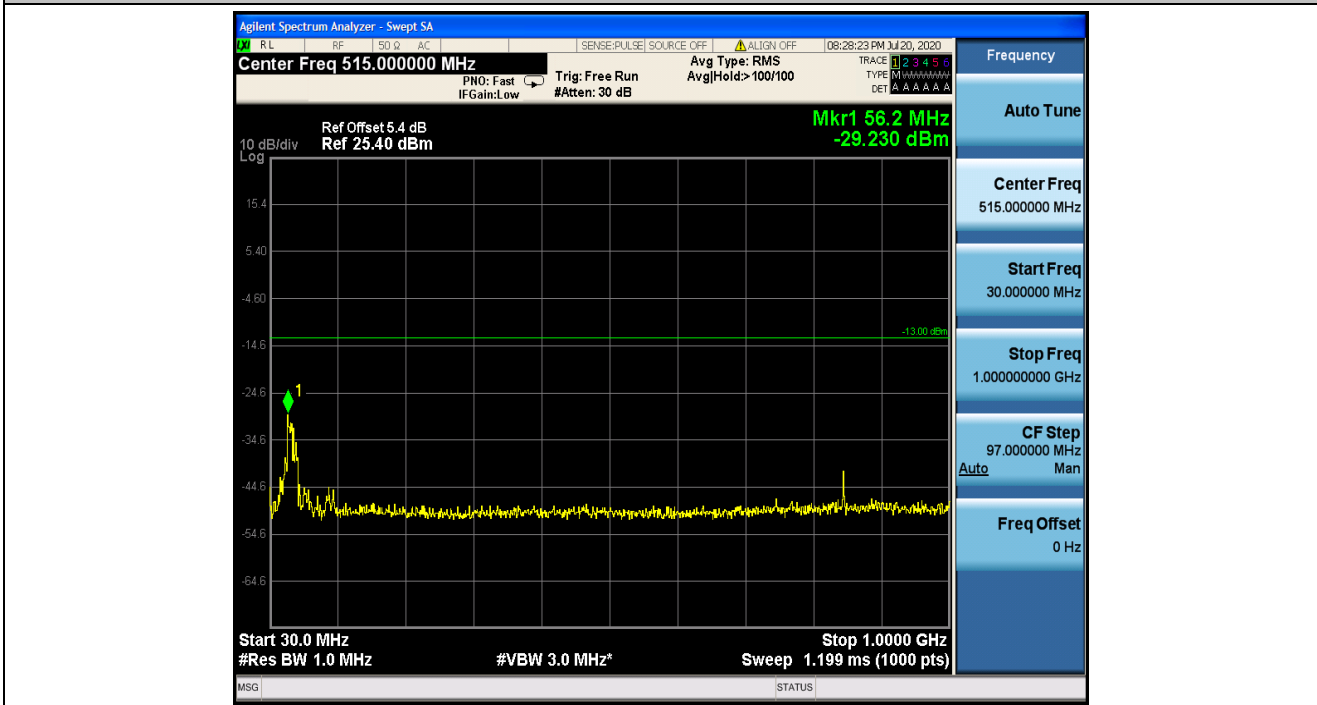


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Band II\_9262



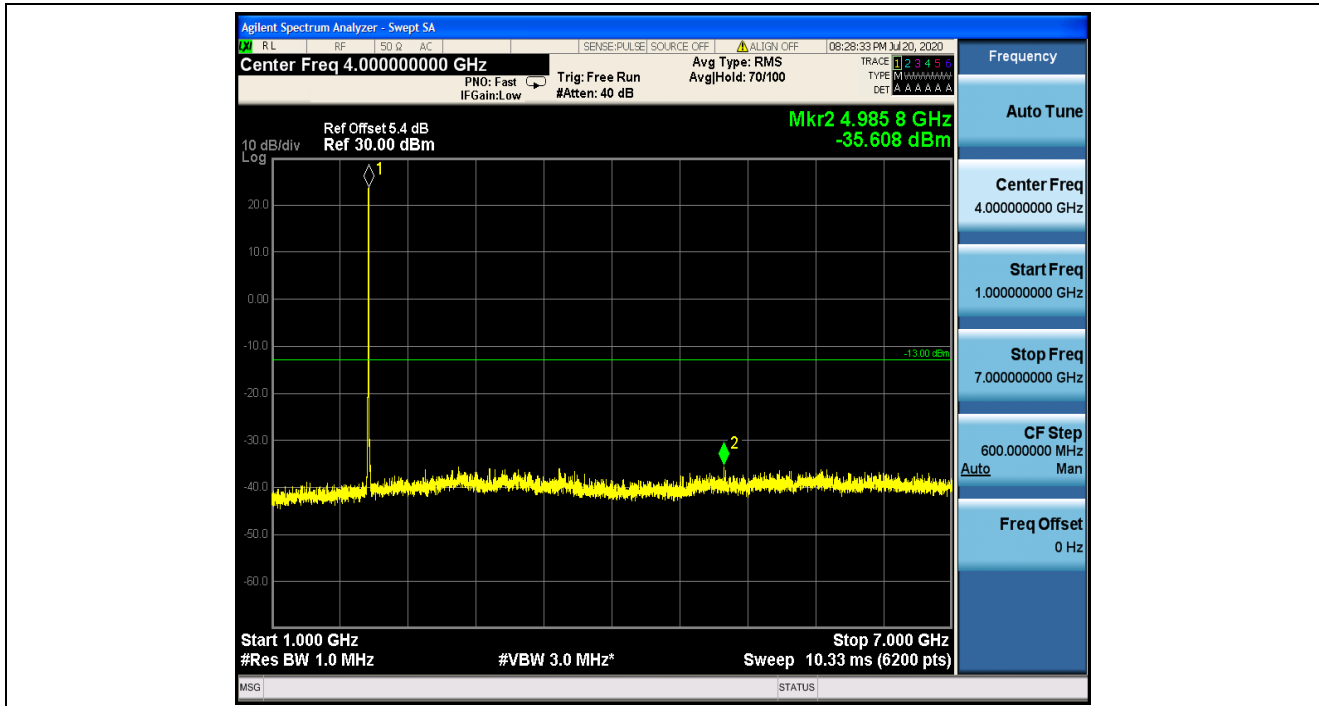
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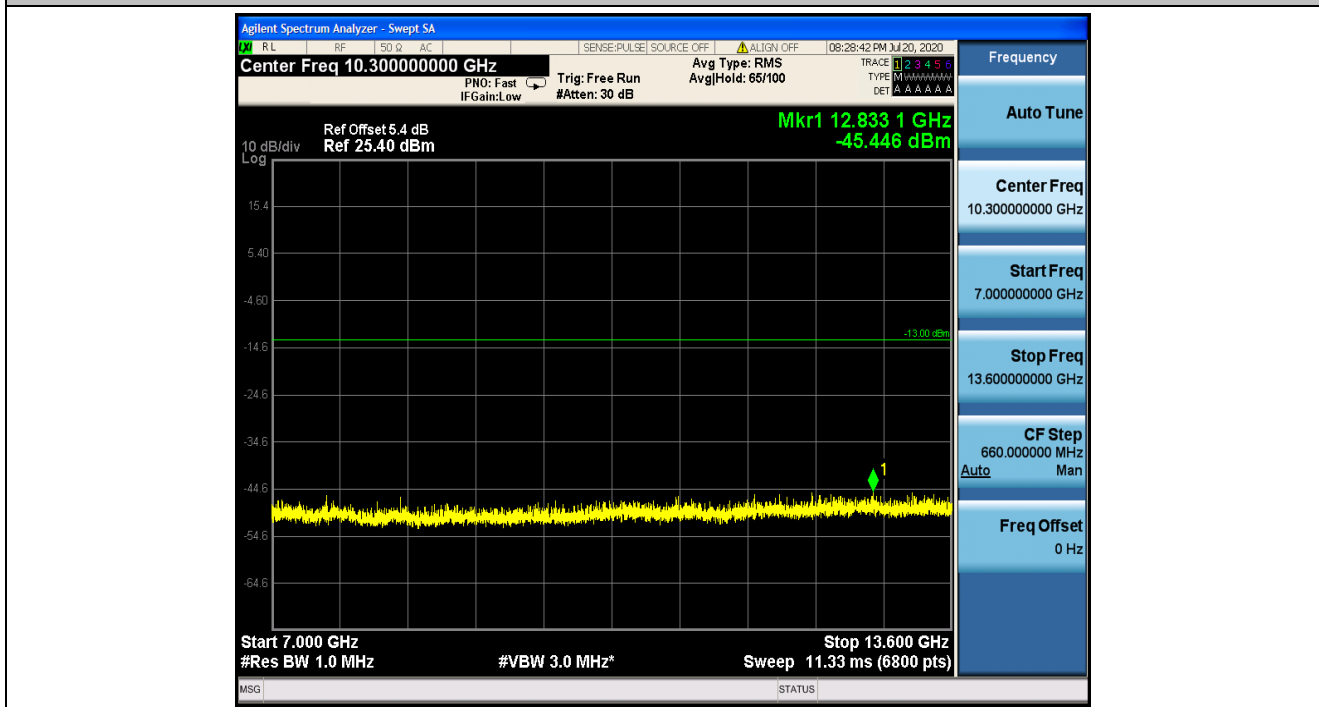
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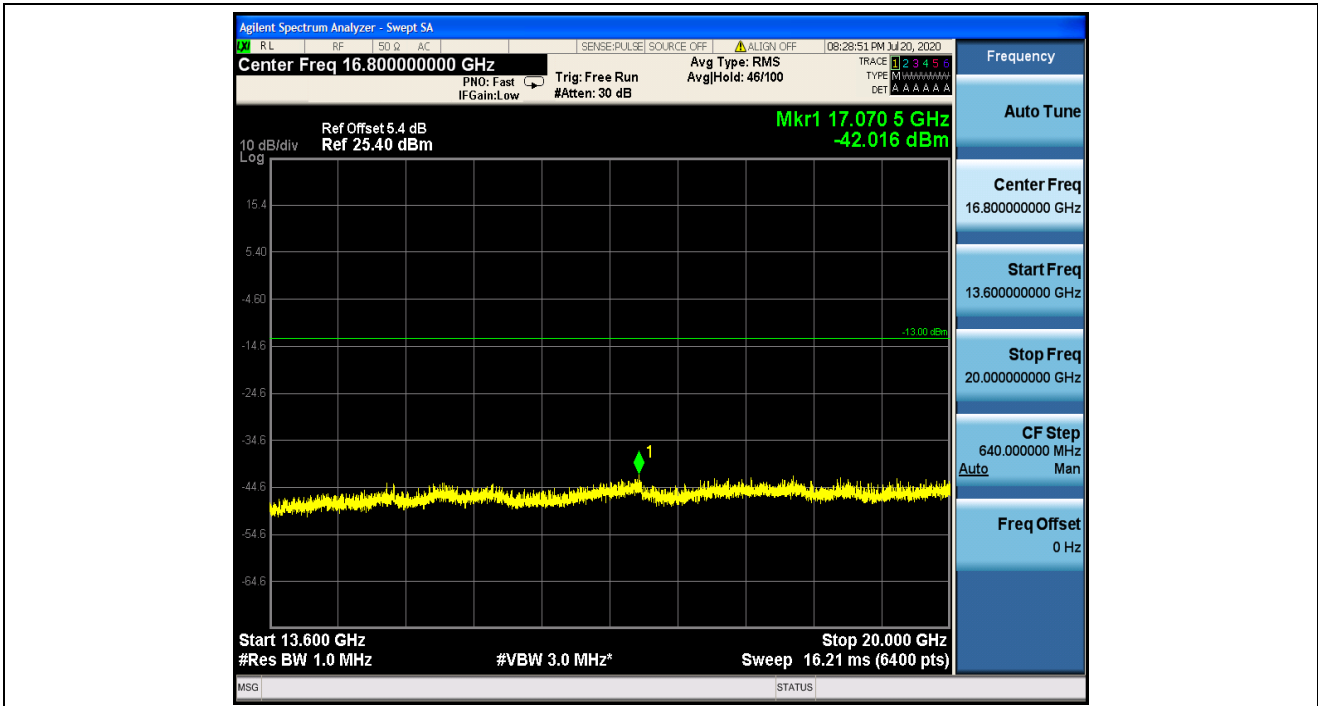


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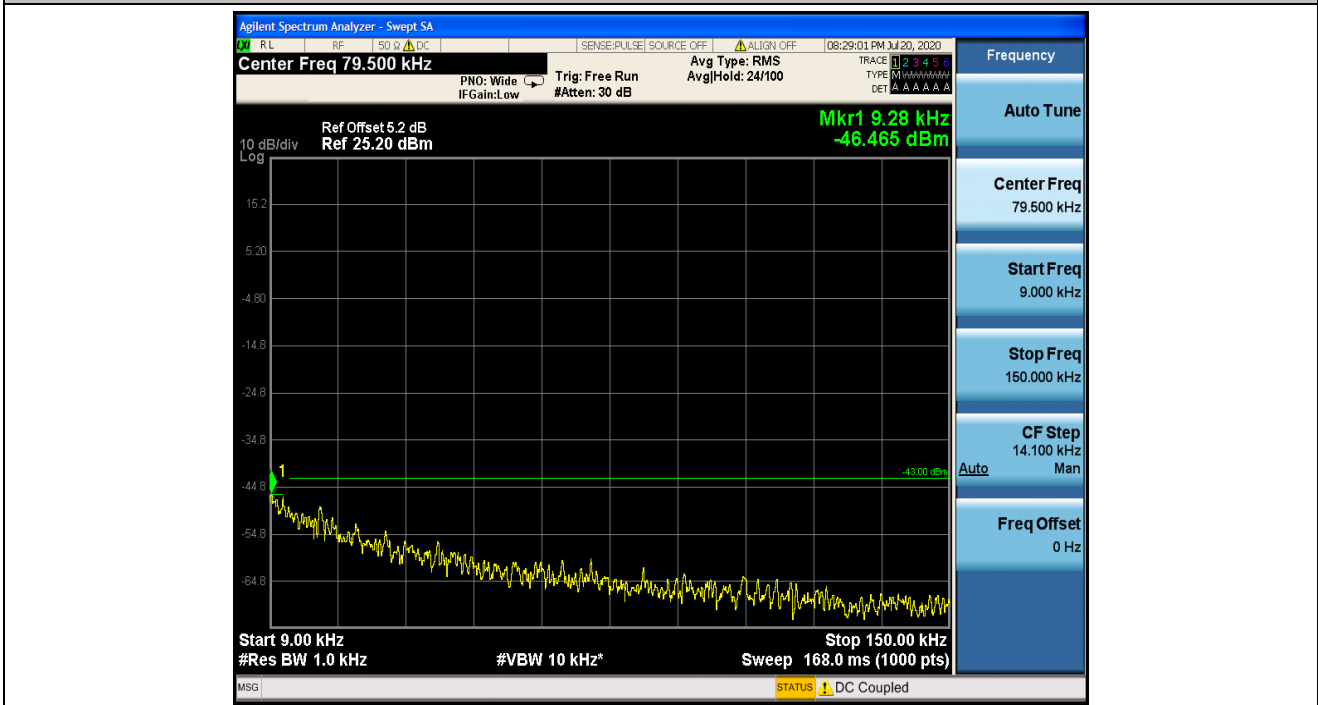


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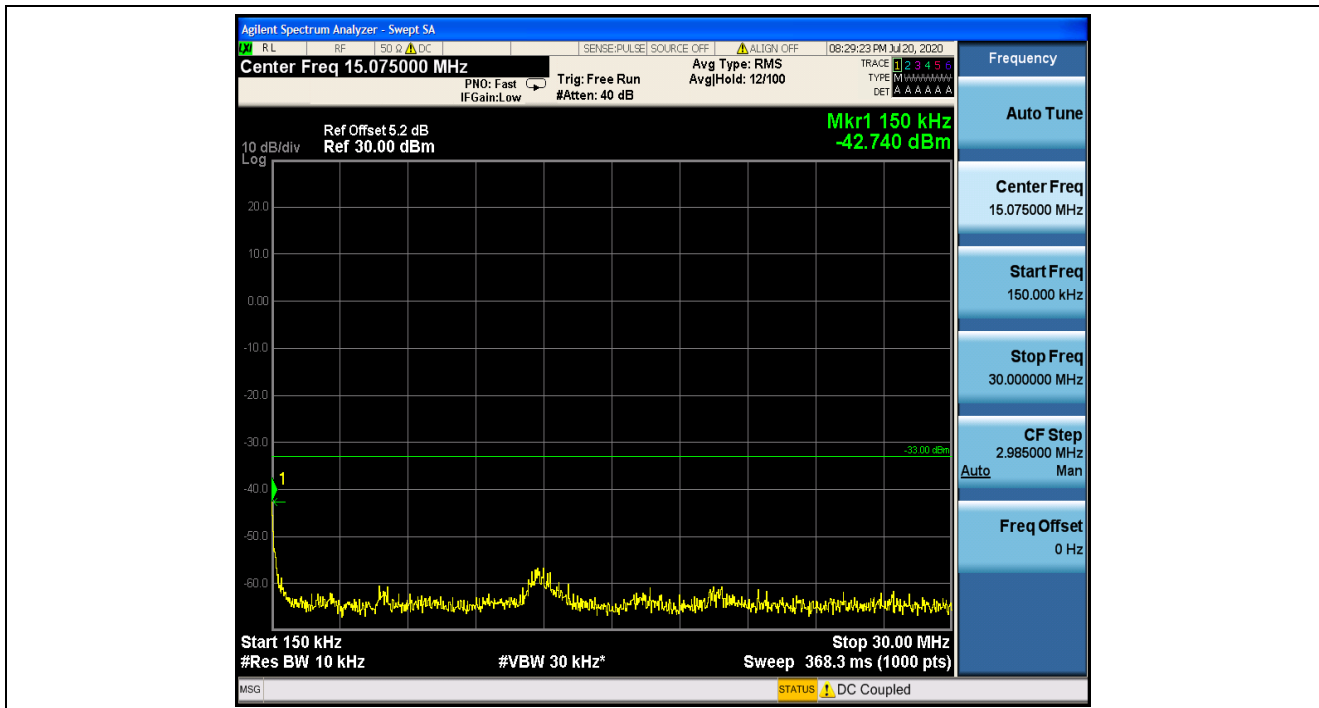
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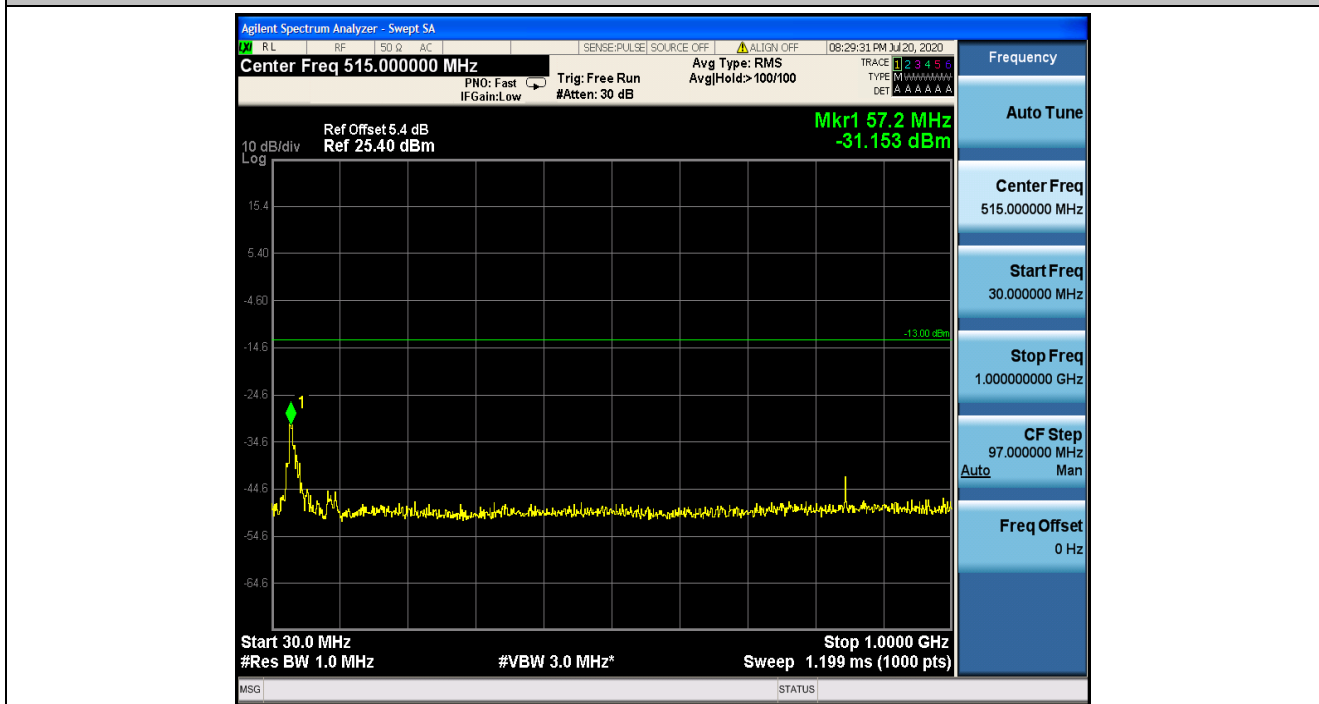
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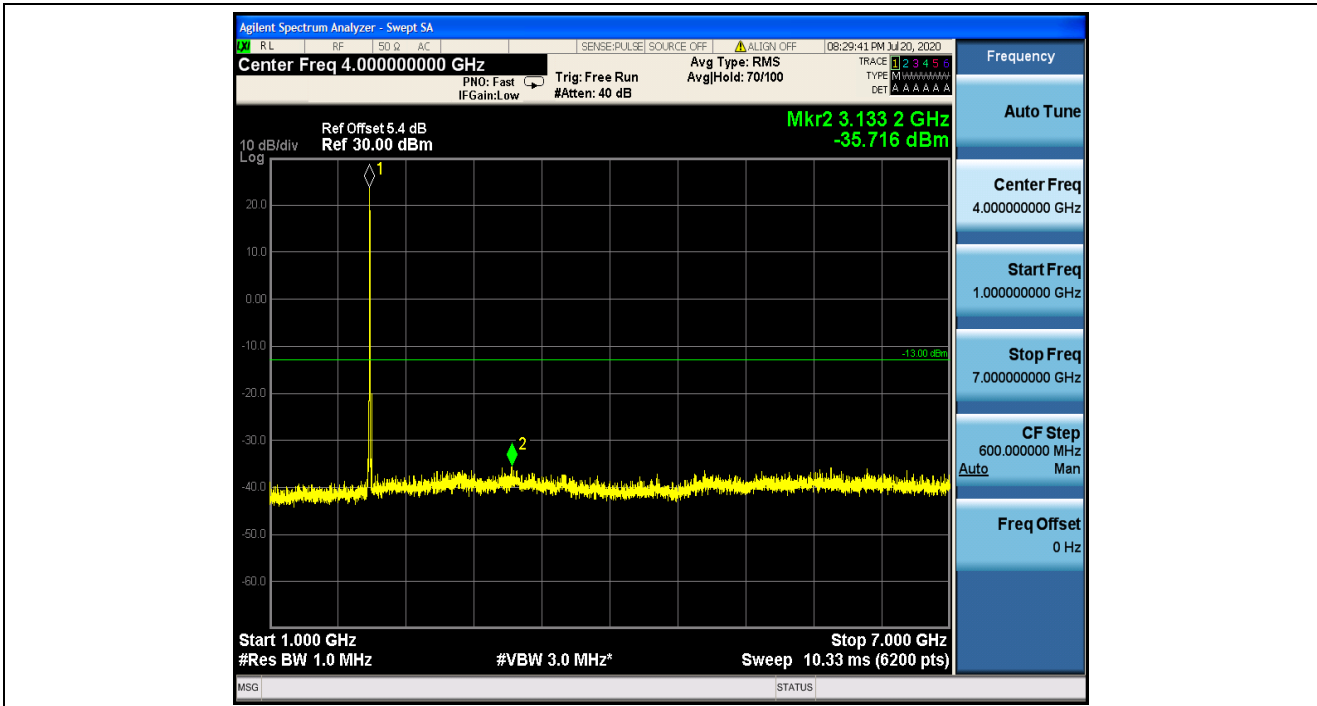
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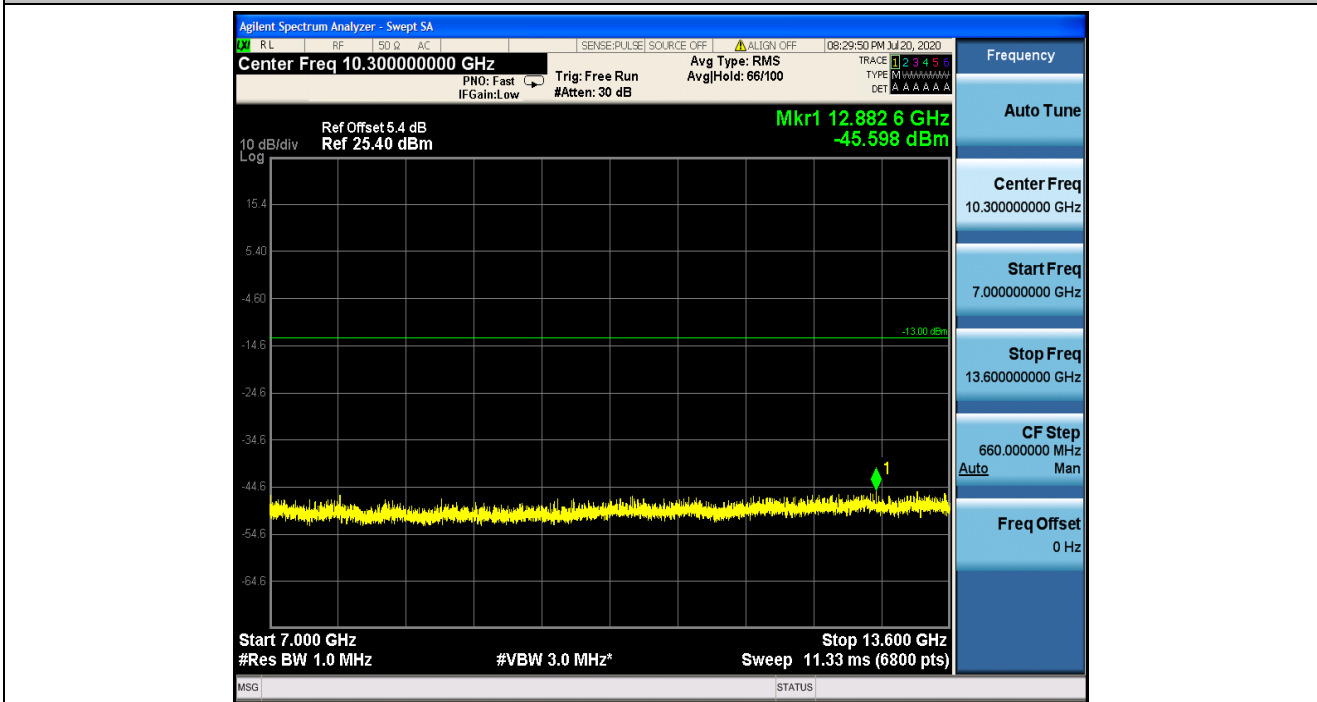
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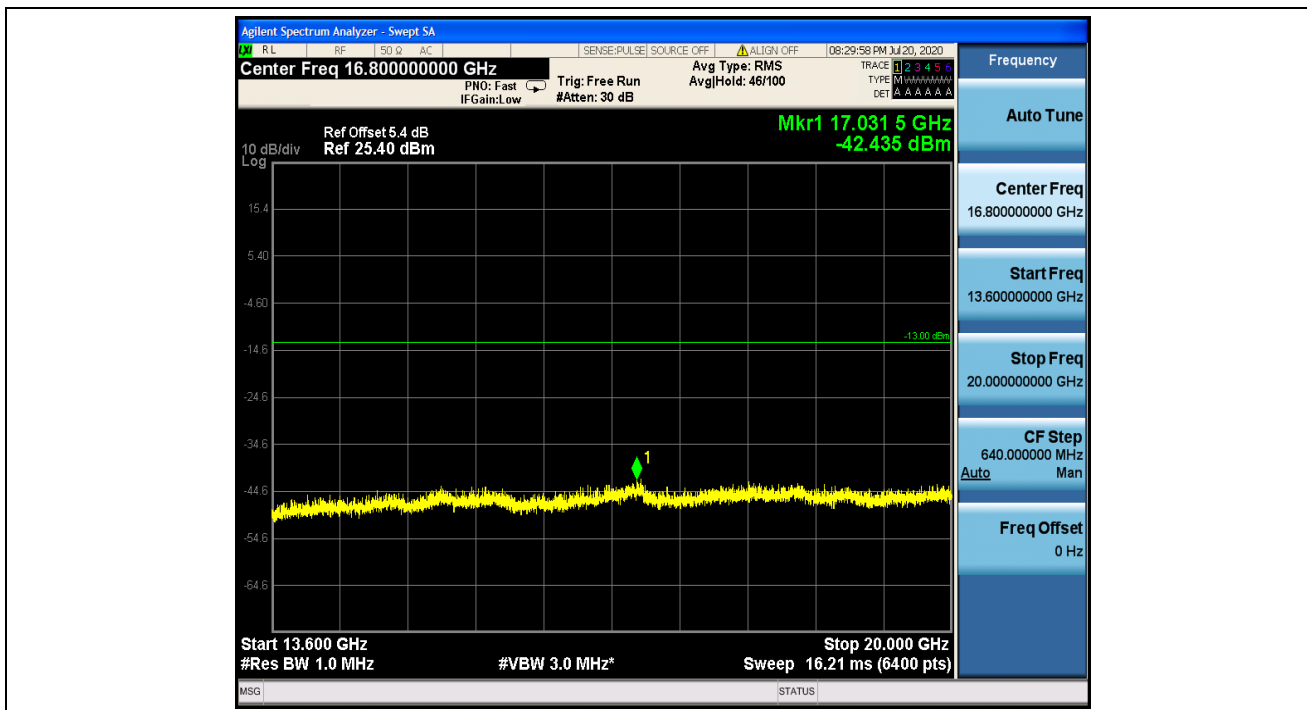
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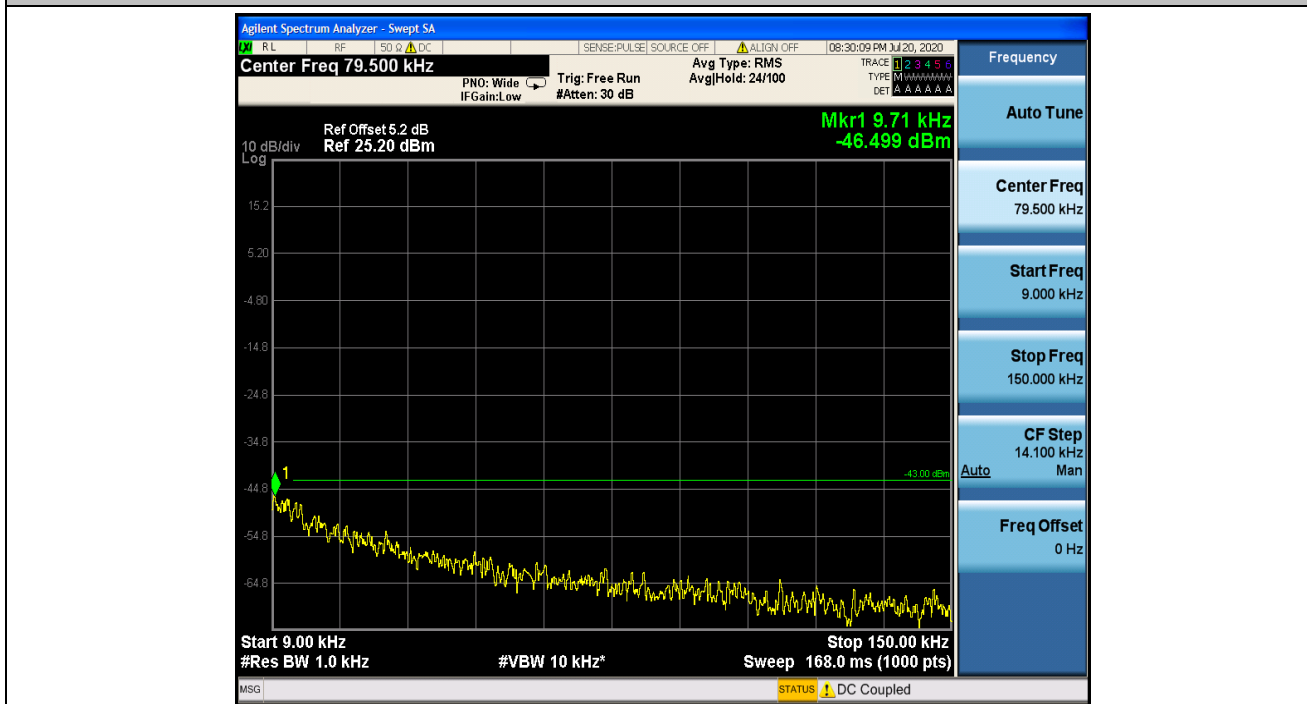
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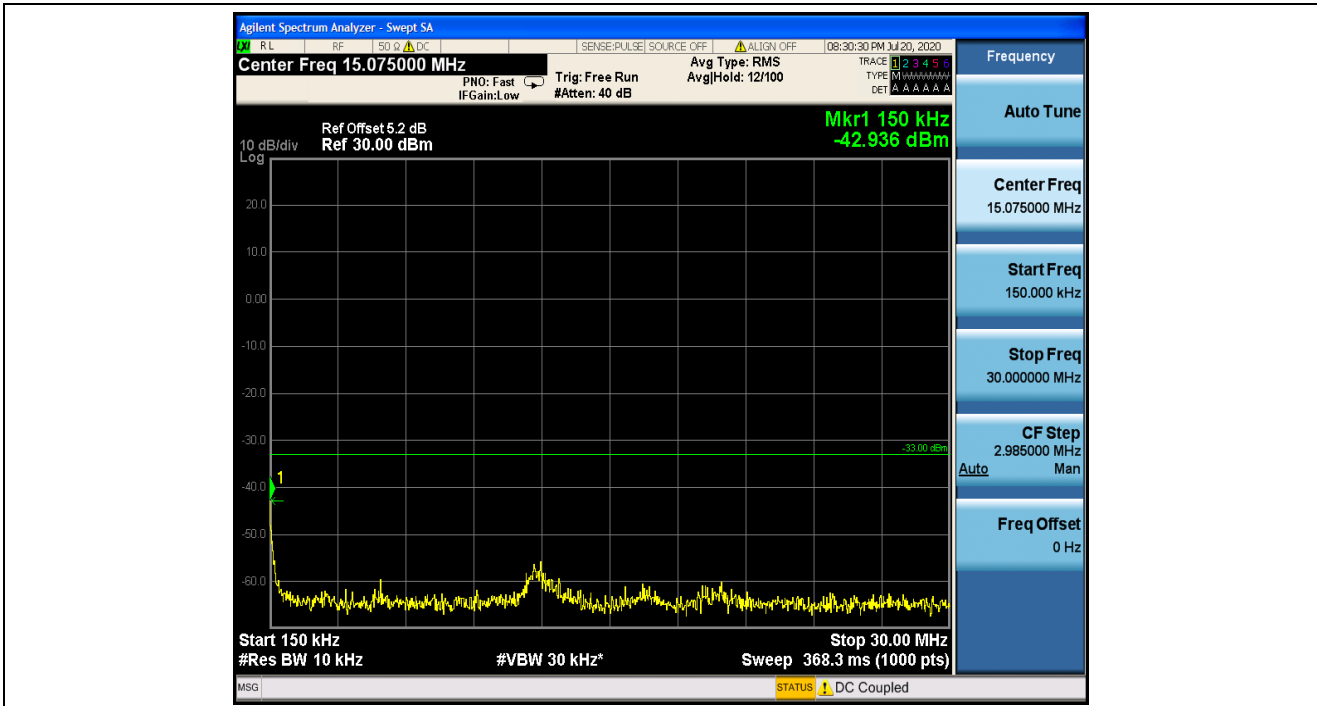
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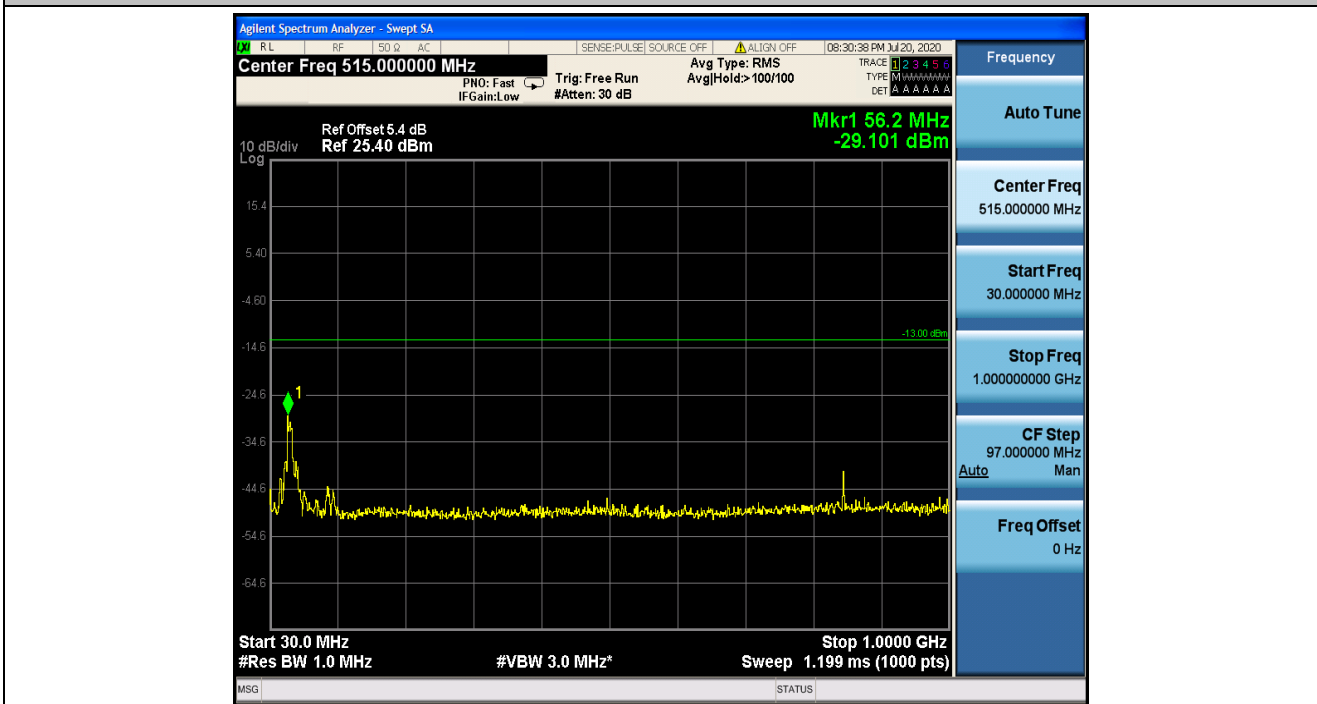
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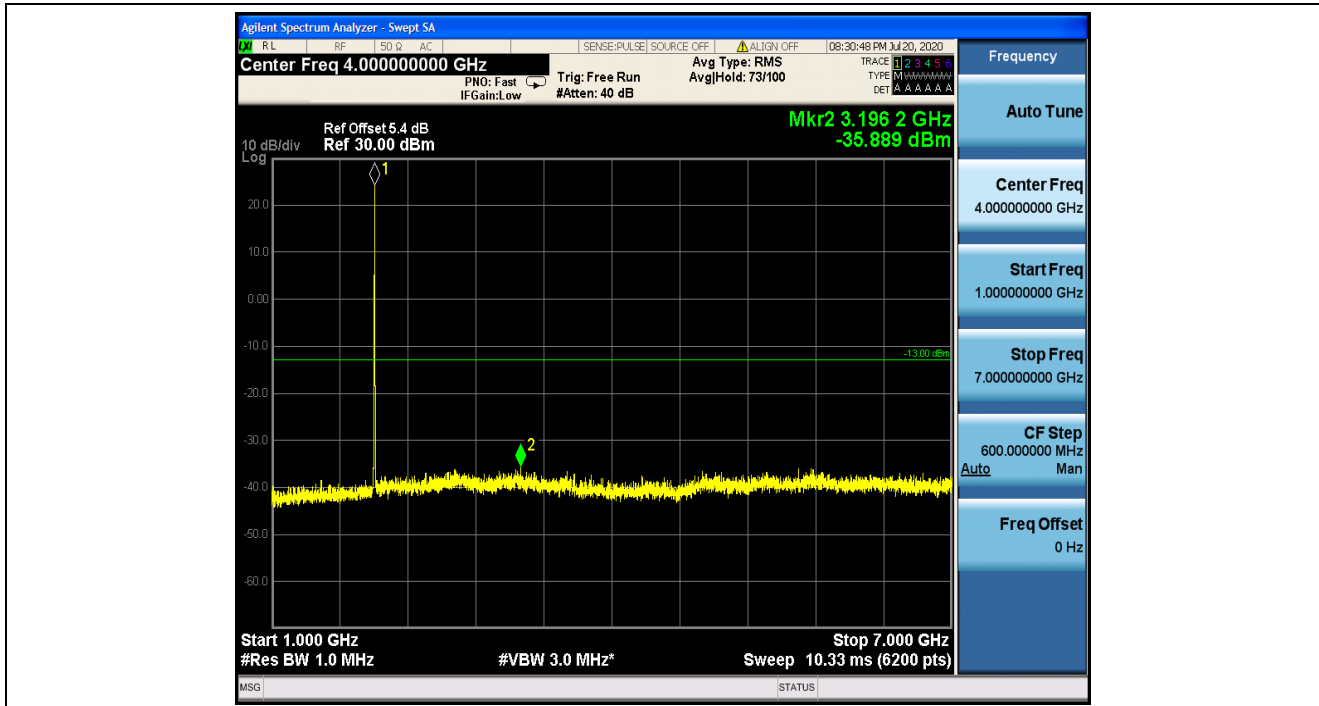
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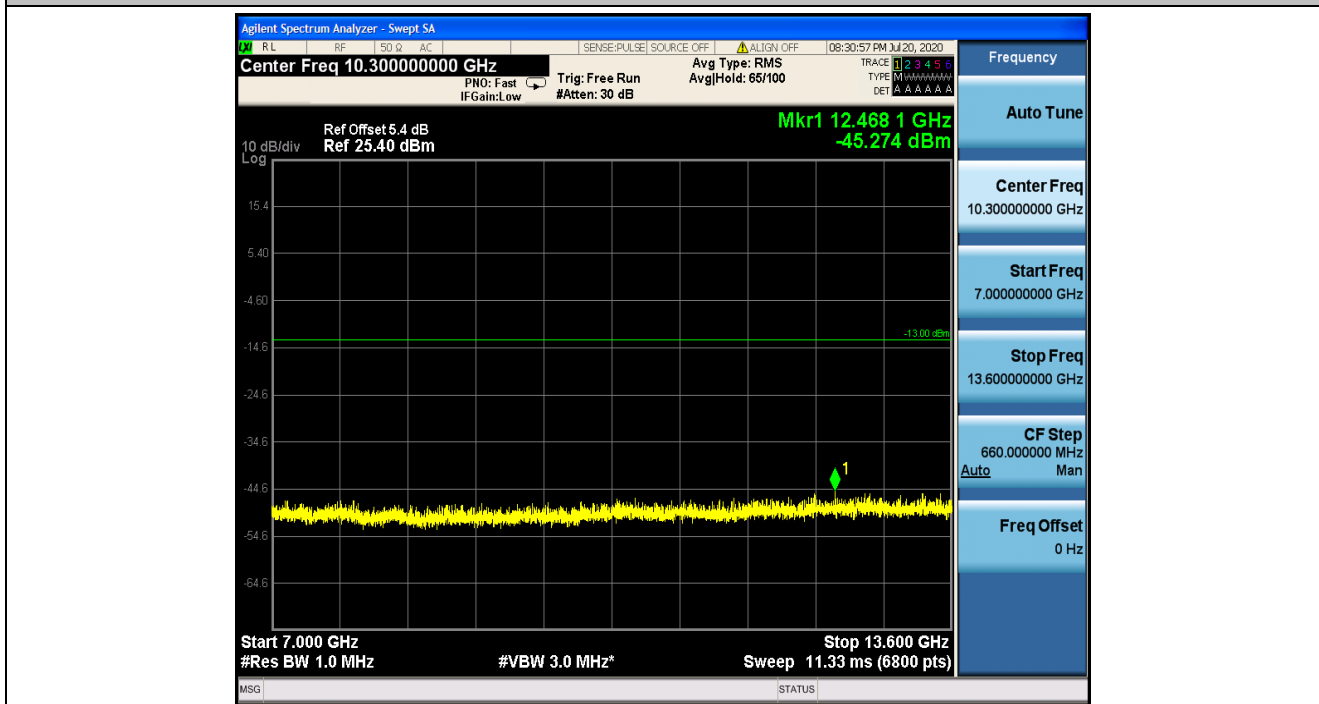
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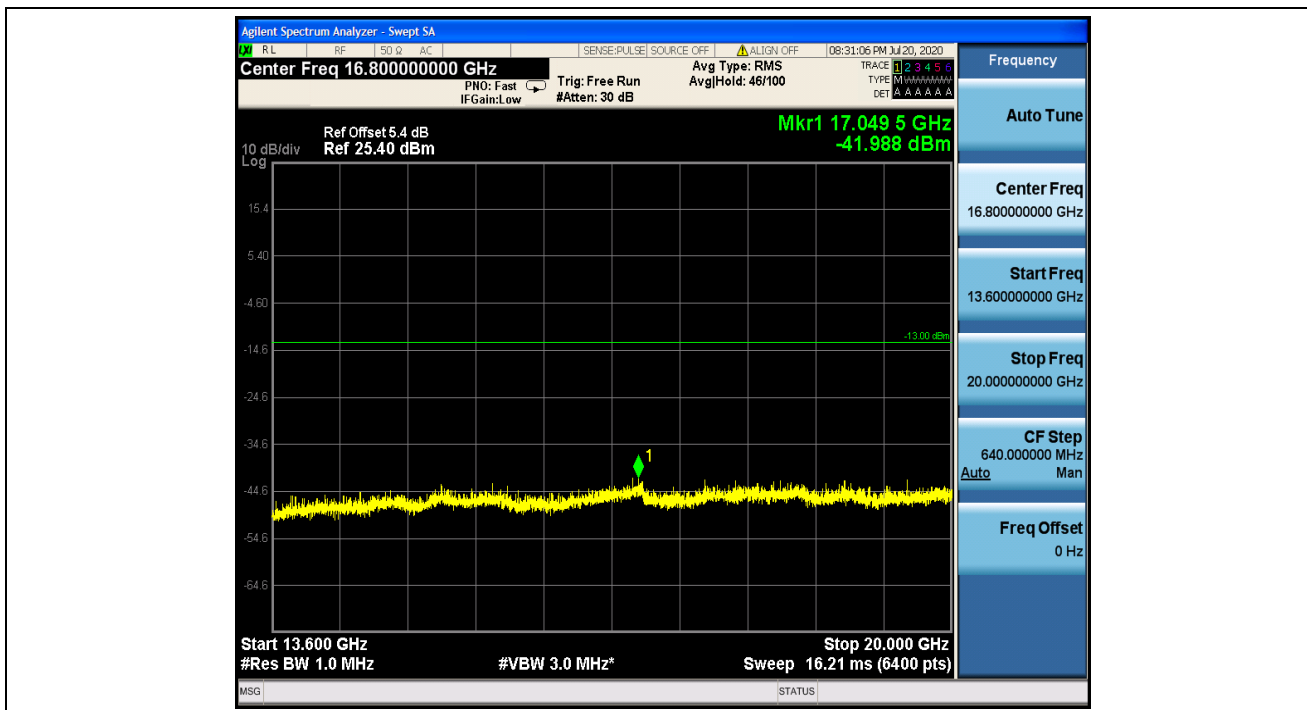
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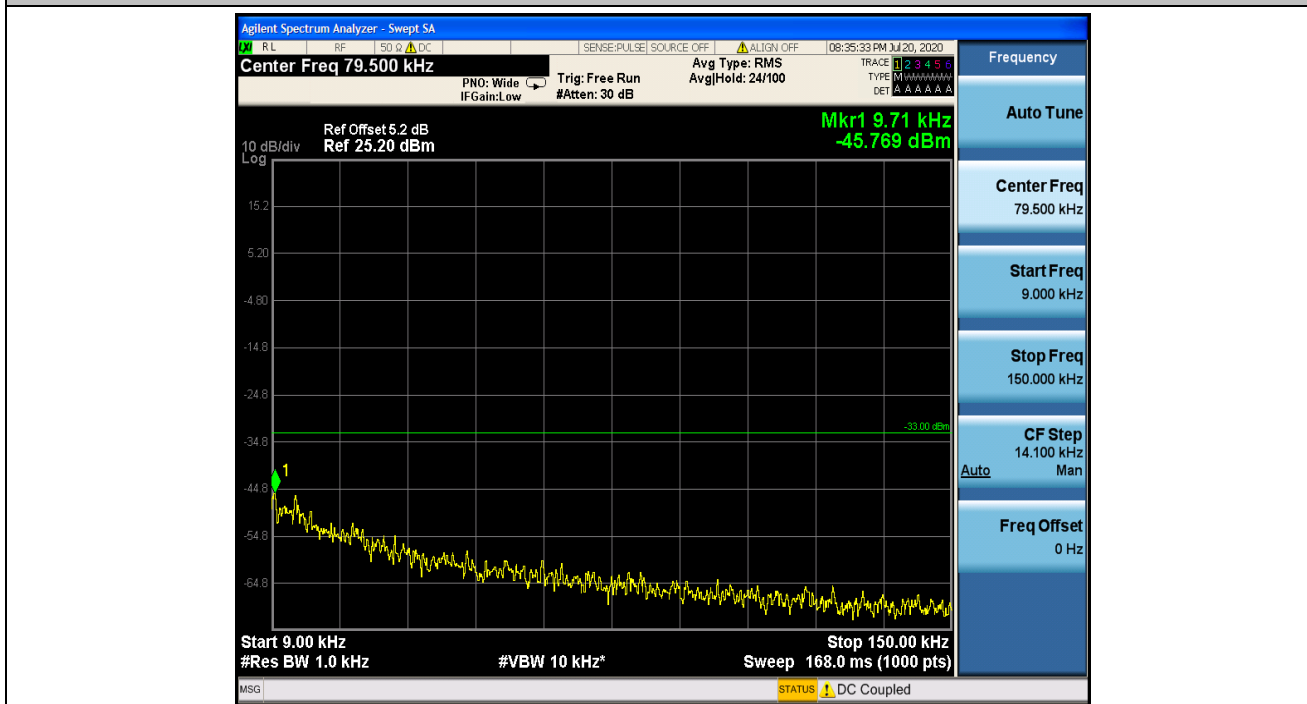
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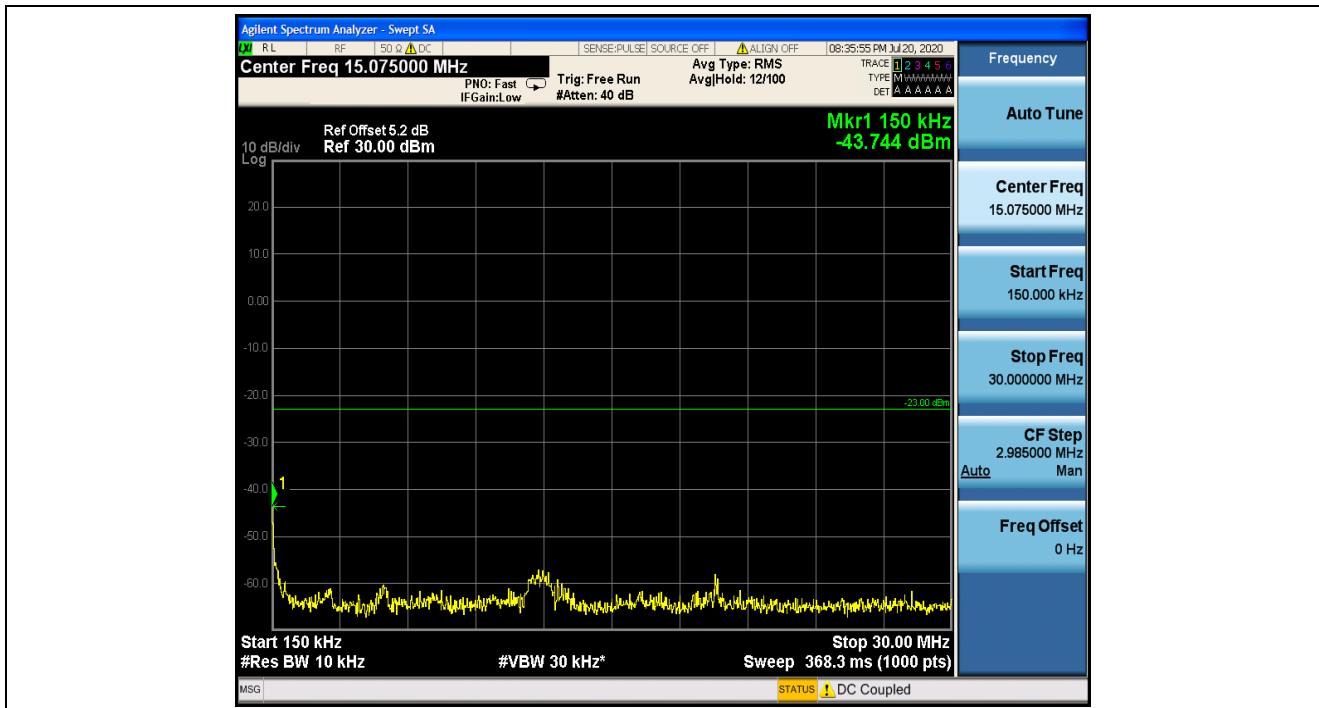
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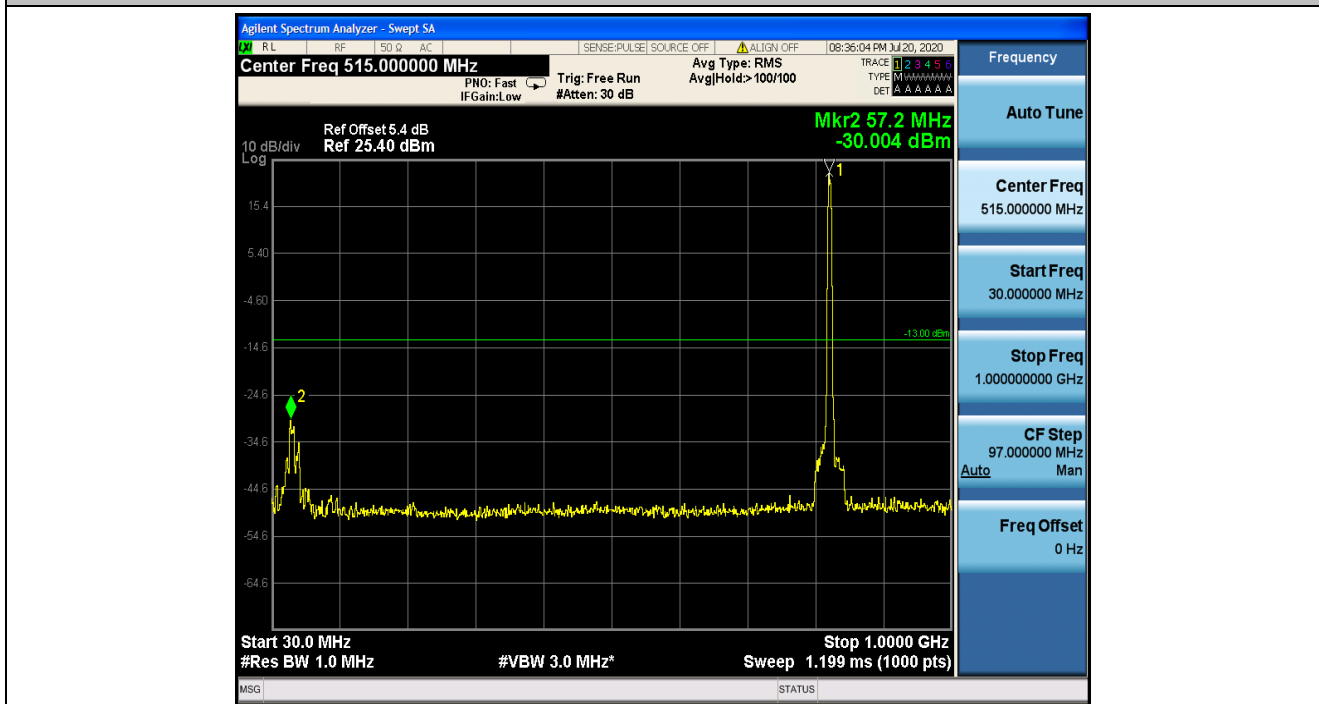
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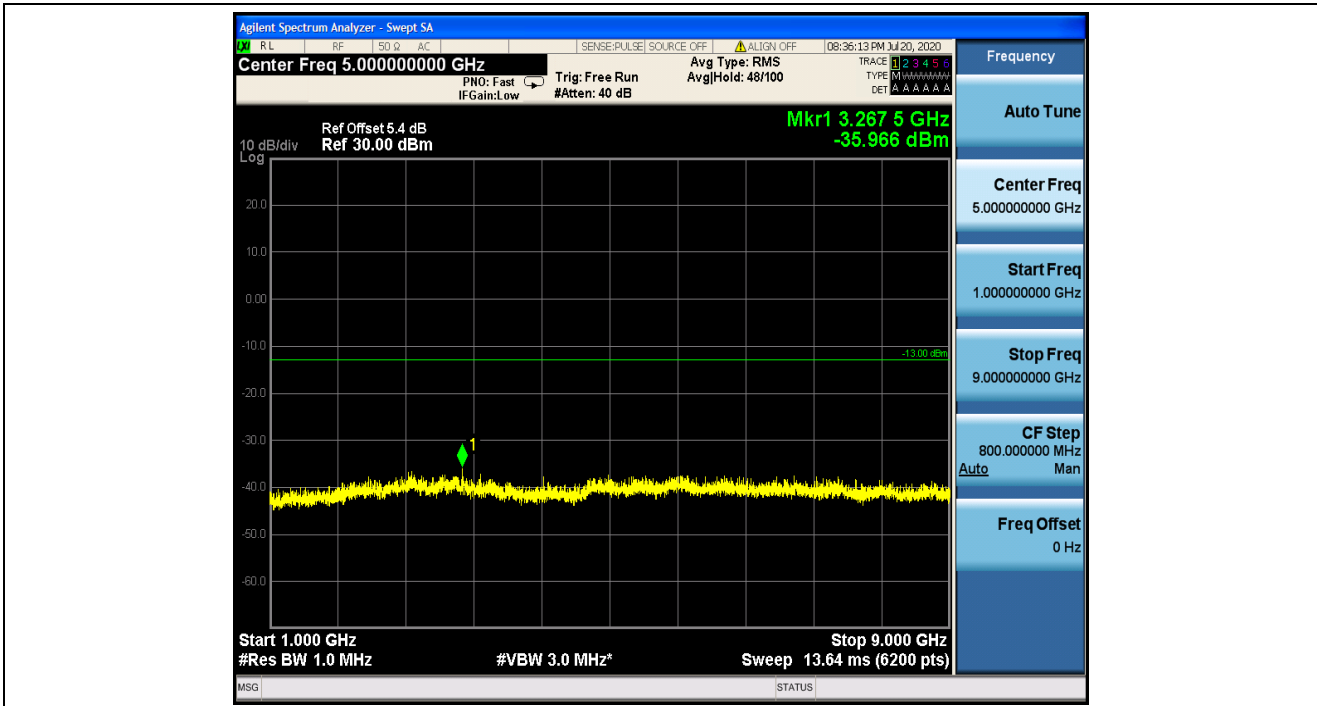
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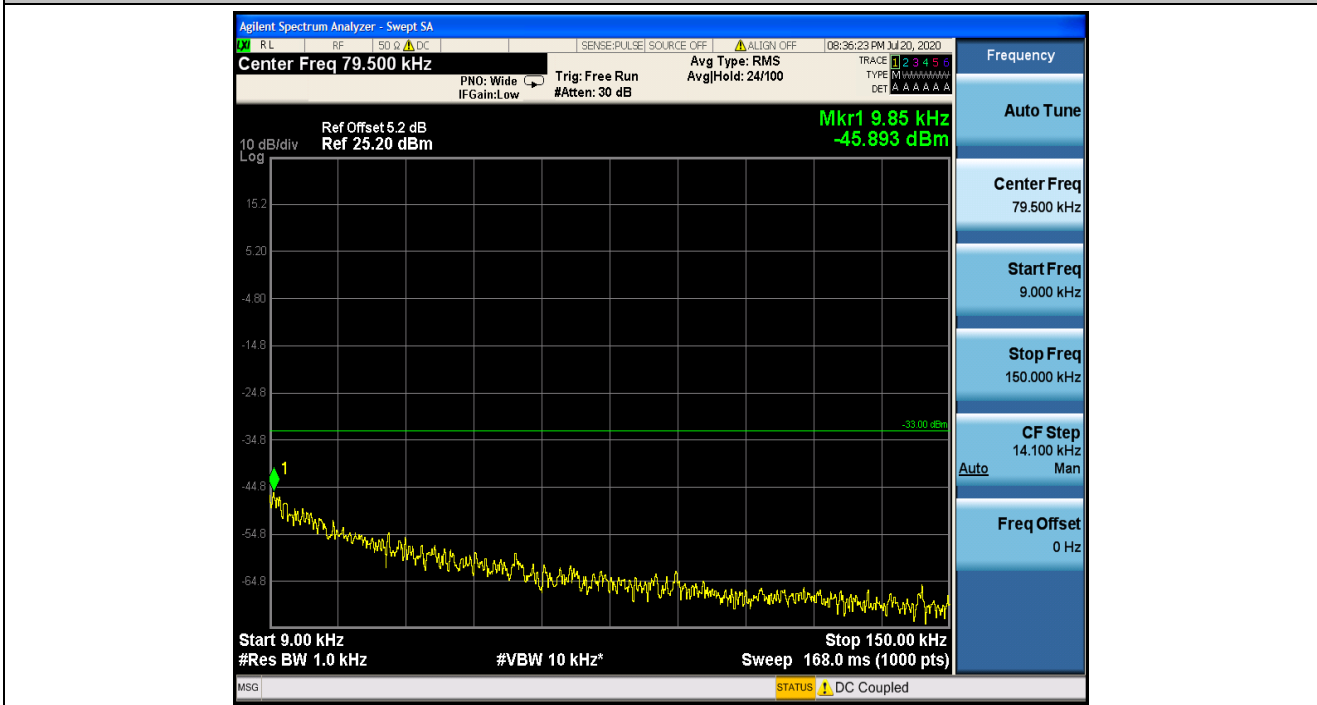
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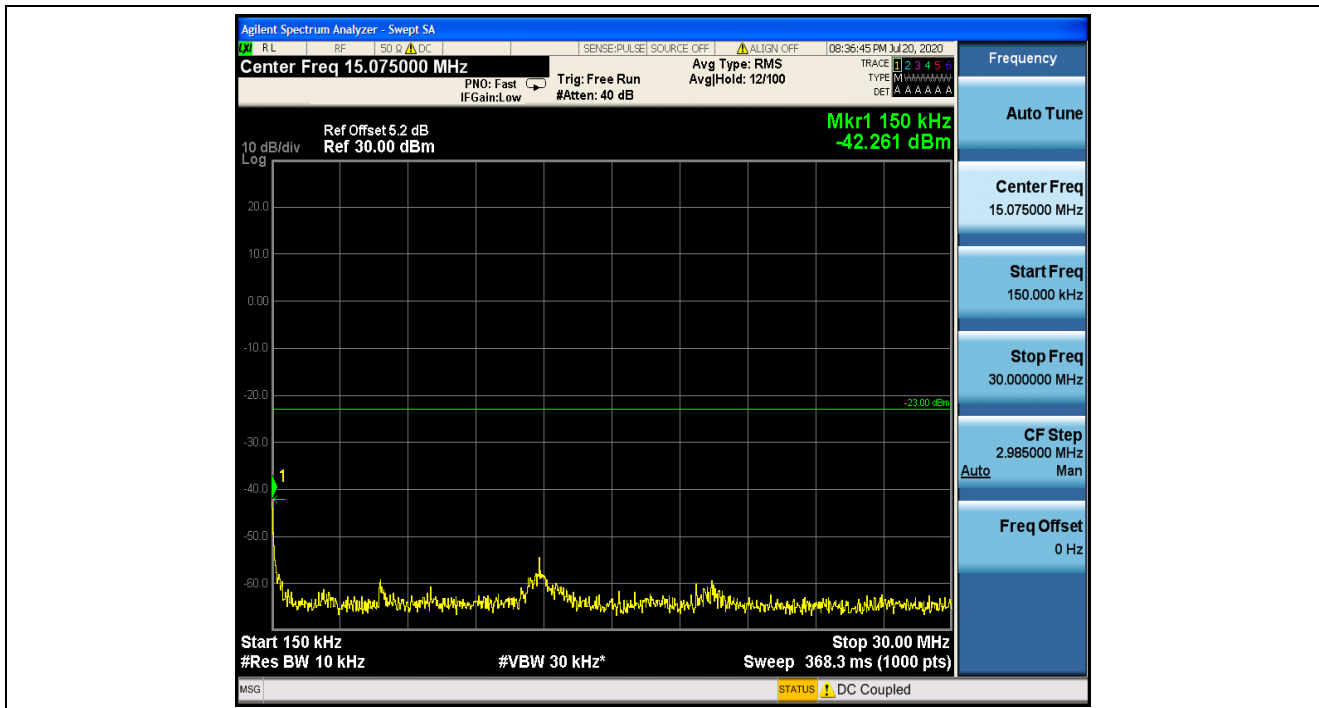
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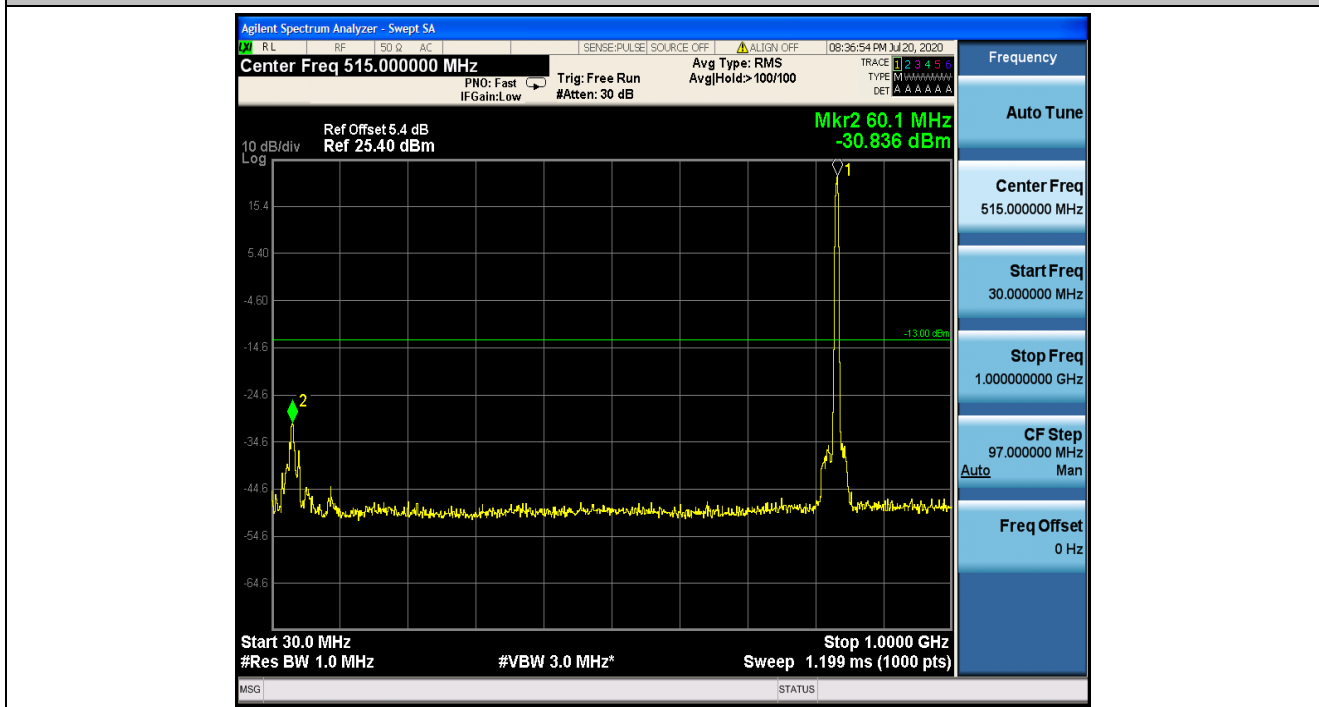
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Band V\_4182



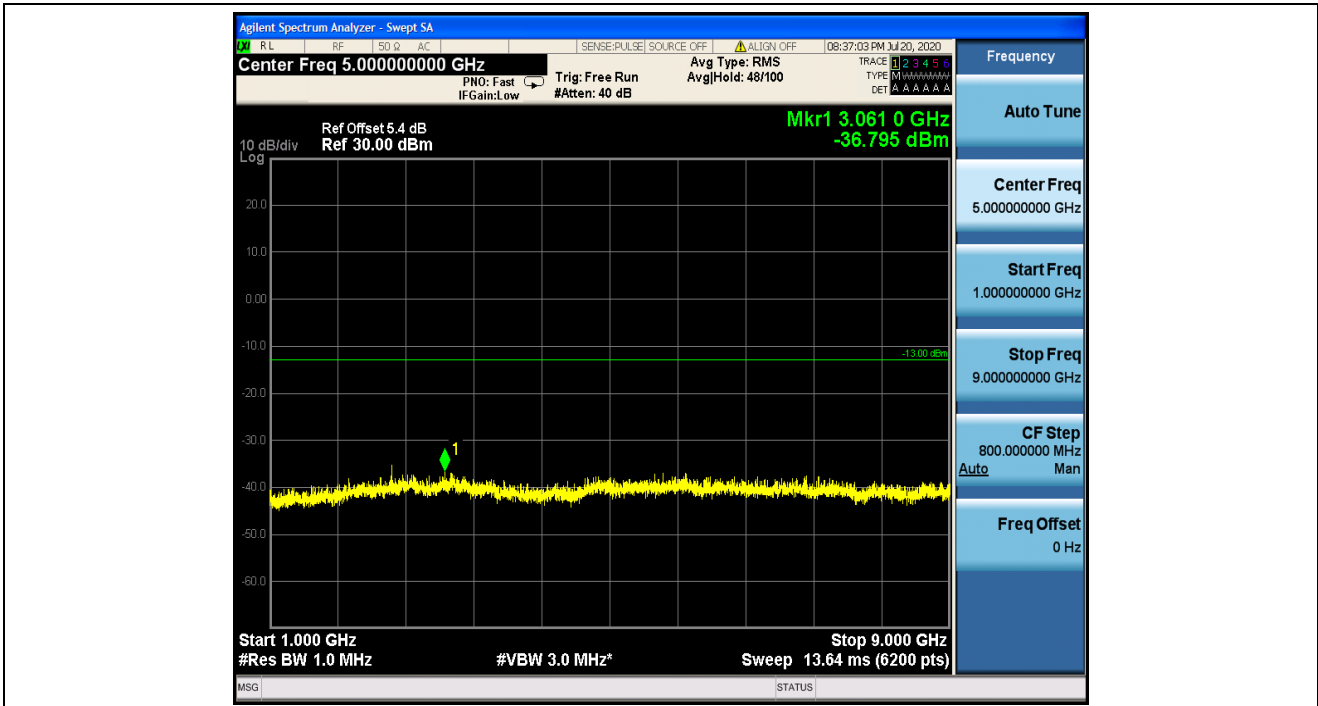
Band V\_4182



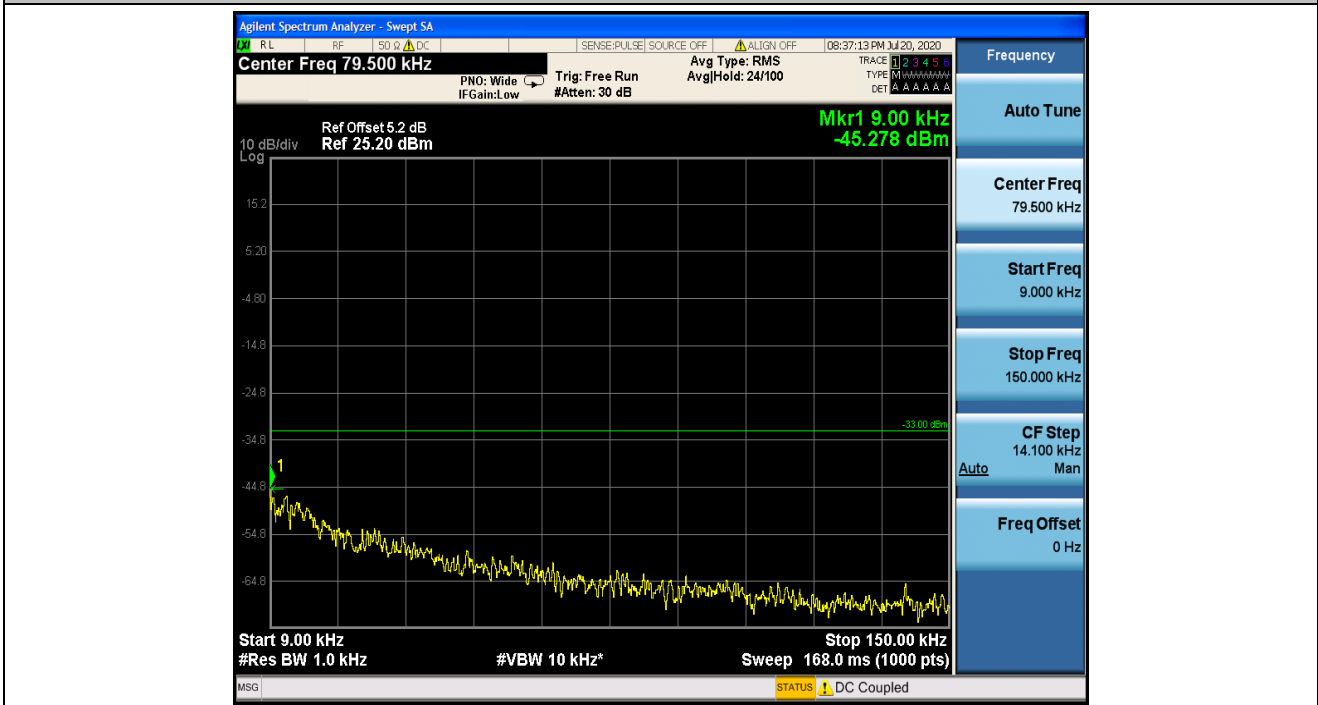
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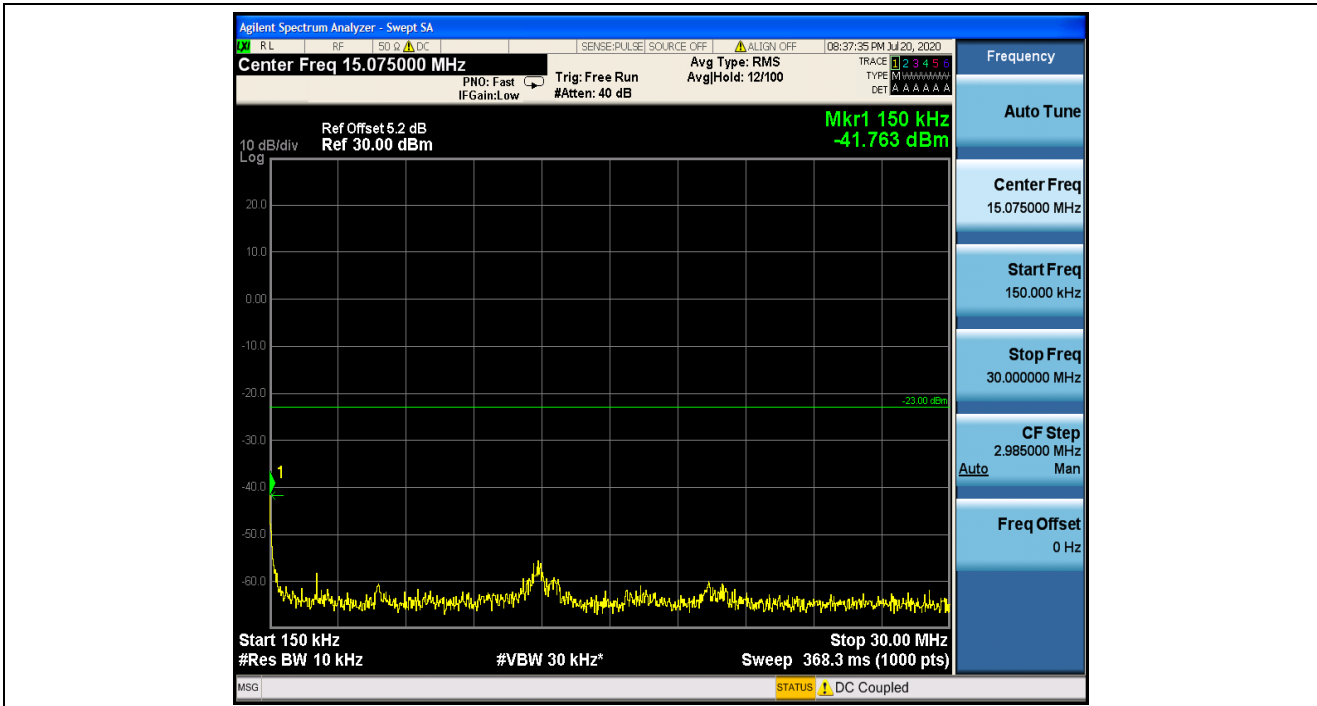


Band V\_4233

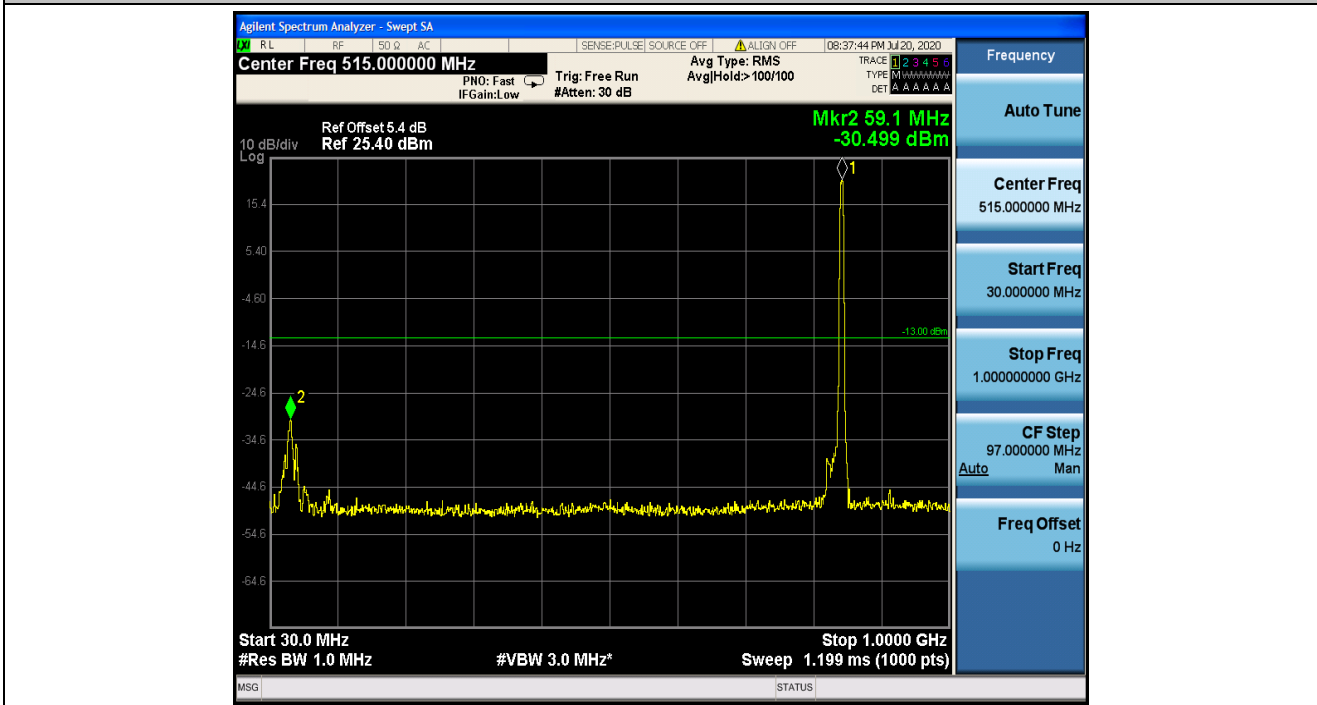


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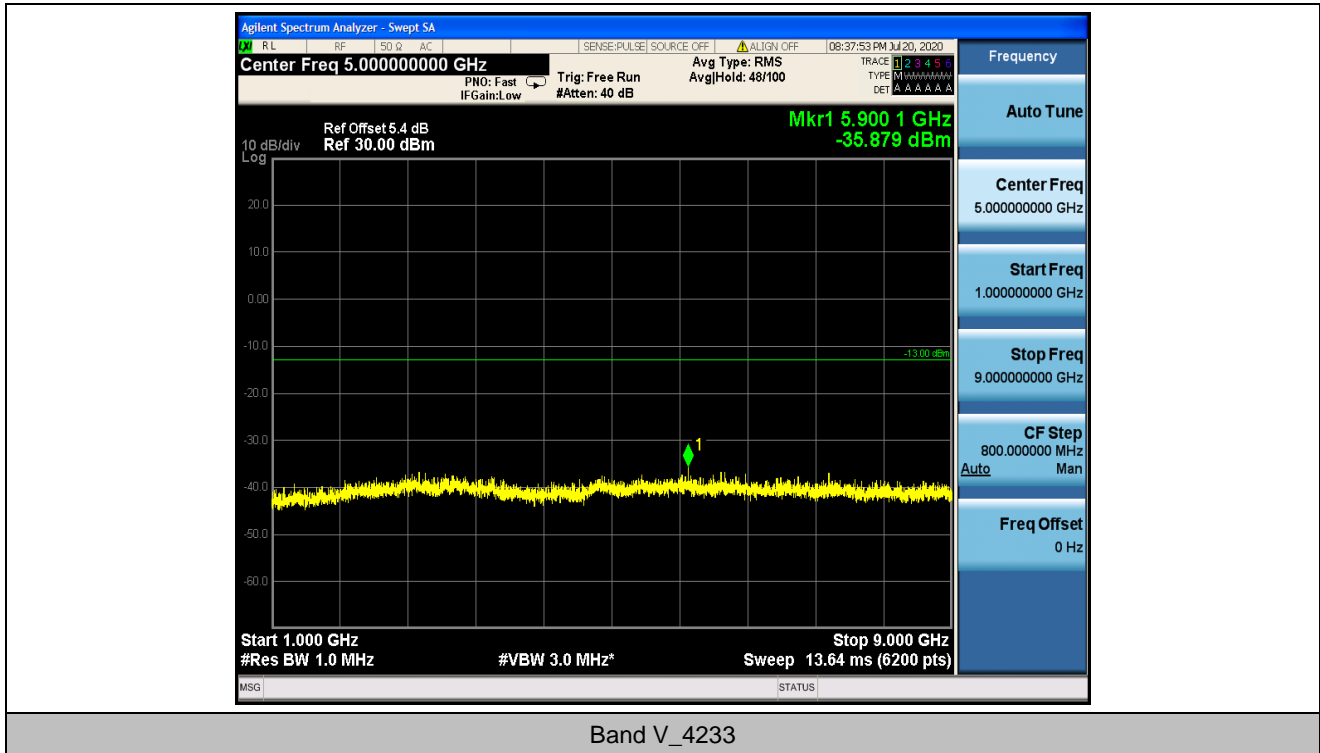
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## 7. Field Strength of Spurious Radiation

### 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)	Height [cm]	Angle [°]	Polarization
46.3938	-72.70	-13.00	59.70	271	196	Vertical
111.7751	-64.58	-13.00	51.58	251	355	Vertical
312.6721	-69.10	-13.00	56.10	147	164	Vertical
3706.0235	-54.41	-13.00	41.41	259	227	Vertical
5560.0853	-58.35	-13.00	45.35	263	227	Vertical
7412.6471	-51.05	-13.00	38.05	217	355	Vertical
40.0885	-64.33	-13.00	51.33	271	100	Horizontal
239.0940	-68.07	-13.00	55.07	259	196	Horizontal
529.9145	-64.37	-13.00	51.37	271	228	Horizontal
3706.5236	-53.11	-13.00	40.11	258	356	Horizontal
5554.0851	-59.69	-13.00	46.69	263	100	Horizontal
16398.4466	-43.27	-13.00	30.27	247	260	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
53.0872	-72.71	-13.00	59.71	281	260	Vertical
117.5954	-64.67	-13.00	51.67	165	228	Vertical
341.5796	-67.48	-13.00	54.48	174	164	Vertical
3761.5254	-54.64	-13.00	41.64	192	228	Vertical
5636.0879	-59.10	-13.00	46.10	167	228	Vertical
7517.1506	-53.81	-13.00	40.81	189	356	Vertical



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46.0543	-64.26	-13.00	51.26	184	291	Horizontal
241.7131	-67.98	-13.00	54.98	175	67	Horizontal
538.1114	-64.84	-13.00	51.84	162	259	Horizontal
3761.5254	-52.10	-13.00	39.10	187	356	Horizontal
7478.1493	-56.16	-13.00	43.16	192	259	Horizontal
16391.9464	-43.35	-13.00	30.35	175	259	Horizontal

**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.5465	-71.44	-13.00	58.44	271	324	Vertical
117.4014	-65.15	-13.00	52.15	258	36	Vertical
376.3073	-68.31	-13.00	55.31	263	324	Vertical
3816.5272	-53.57	-13.00	40.57	284	228	Vertical
5726.0909	-58.82	-13.00	45.82	271	228	Vertical
7627.1542	-54.52	-13.00	41.52	259	4	Vertical
46.2483	-63.19	-13.00	50.19	187	68	Horizontal
238.9484	-67.97	-13.00	54.97	162	355	Horizontal
594.9077	-62.37	-13.00	49.37	174	99	Horizontal
3817.0272	-51.61	-13.00	38.61	195	355	Horizontal
7387.6463	-56.44	-13.00	43.44	158	99	Horizontal
16402.4467	-43.13	-13.00	30.13	162	259	Horizontal

**7.2. Test Band = WCDMA Band V**

**7.2.1. Test Mode = WCDMA/TM1**

**7.2.1.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.8860	-71.42	-13.00	58.42	271	356	Vertical
109.3500	-64.78	-13.00	51.78	259	196	Vertical
322.6151	-69.11	-13.00	56.11	271	68	Vertical



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1654.5309	-57.27	-13.00	44.27	263	190	Vertical
2700.3401	-52.01	-13.00	39.01	284	343	Vertical
17999.5000	-39.59	-13.00	26.59	271	228	Vertical
40.8645	-64.57	-13.00	51.57	184	323	Horizontal
103.1902	-75.66	-13.00	62.66	175	67	Horizontal
250.5405	-67.65	-13.00	54.65	162	67	Horizontal
1654.1308	-51.63	-13.00	38.63	187	203	Horizontal
2700.7401	-50.73	-13.00	37.73	152	286	Horizontal
16391.9464	-43.35	-13.00	30.35	199	292	Horizontal

**7.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
47.8004	-71.98	-13.00	58.98	247	176	Vertical
110.7080	-64.46	-13.00	51.46	259	335	Vertical
368.2074	-68.16	-13.00	55.16	247	111	Vertical
1700.1400	-60.01	-13.00	47.01	258	121	Vertical
2575.5151	-52.00	-13.00	39.00	263	183	Vertical
17996.9999	-40.02	-13.00	27.02	284	335	Vertical
41.1556	-63.92	-13.00	50.92	241	264	Horizontal
102.3656	-75.35	-13.00	62.35	285	328	Horizontal
234.5832	-68.06	-13.00	55.06	263	136	Horizontal
1670.9342	-57.40	-13.00	44.40	271	198	Horizontal
2697.9396	-50.78	-13.00	37.78	259	309	Horizontal
16406.4469	-43.43	-13.00	30.43	221	167	Horizontal

**7.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.6620	-71.48	-13.00	58.48	198	164	Vertical
112.4541	-63.92	-13.00	50.92	175	68	Vertical
329.6480	-67.93	-13.00	54.93	162	228	Vertical



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1695.3391	-58.49	-13.00	45.49	185	194	Vertical
2701.1402	-51.87	-13.00	38.87	169	1	Vertical
17996.4999	-39.45	-13.00	26.45	175	4	Vertical
40.3795	-64.44	-13.00	51.44	147	261	Horizontal
103.2872	-75.89	-13.00	62.89	195	36	Horizontal
240.3065	-68.60	-13.00	55.60	184	356	Horizontal
1694.5389	-53.43	-13.00	40.43	175	202	Horizontal
2694.3389	-50.73	-13.00	37.73	162	131	Horizontal
16396.4465	-43.46	-13.00	30.46	188	99	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

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	1.11	0.000598	2.5	PASS
Band II	9262	VN	TN	1.10	0.000595	2.5	PASS
Band II	9262	VH	TN	0.36	0.000197	2.5	PASS
Band II	9400	VL	TN	0.23	0.000122	2.5	PASS
Band II	9400	VN	TN	0.04	0.000023	2.5	PASS
Band II	9400	VH	TN	-0.72	-0.000380	2.5	PASS
Band II	9538	VL	TN	-3.17	-0.001661	2.5	PASS
Band II	9538	VN	TN	-2.41	-0.001264	2.5	PASS
Band II	9538	VH	TN	-4.09	-0.002145	2.5	PASS
Band V	4132	VL	TN	1.04	0.001255	2.5	PASS
Band V	4132	VN	TN	1.21	0.001463	2.5	PASS
Band V	4132	VH	TN	2.02	0.002449	2.5	PASS
Band V	4182	VL	TN	0.64	0.000761	2.5	PASS
Band V	4182	VN	TN	-0.25	-0.000299	2.5	PASS
Band V	4182	VH	TN	-0.09	-0.000103	2.5	PASS
Band V	4233	VL	TN	-1.07	-0.001259	2.5	PASS
Band V	4233	VN	TN	-0.82	-0.000963	2.5	PASS
Band V	4233	VH	TN	-0.42	-0.000498	2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	1.58	0.000853	2.5	PASS
Band II	9262	VN	-20	1.47	0.000795	2.5	PASS
Band II	9262	VN	-10	1.30	0.000703	2.5	PASS
Band II	9262	VN	0	1.57	0.000849	2.5	PASS
Band II	9262	VN	10	1.67	0.000904	2.5	PASS
Band II	9262	VN	20	1.22	0.000656	2.5	PASS
Band II	9262	VN	30	1.85	0.000996	2.5	PASS
Band II	9262	VN	40	2.58	0.001394	2.5	PASS



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Band II	9262	VN	50	1.85	0.001000	2.5	PASS
Band II	9400	VN	-30	-1.82	-0.000966	2.5	PASS
Band II	9400	VN	-20	-1.78	-0.000947	2.5	PASS
Band II	9400	VN	-10	-1.09	-0.000582	2.5	PASS
Band II	9400	VN	0	-0.22	-0.000118	2.5	PASS
Band II	9400	VN	10	-0.19	-0.000099	2.5	PASS
Band II	9400	VN	20	-0.29	-0.000152	2.5	PASS
Band II	9400	VN	30	-0.99	-0.000529	2.5	PASS
Band II	9400	VN	40	-1.07	-0.000571	2.5	PASS
Band II	9400	VN	50	-0.49	-0.000263	2.5	PASS
Band II	9538	VN	-30	-3.53	-0.001849	2.5	PASS
Band II	9538	VN	-20	-3.95	-0.002070	2.5	PASS
Band II	9538	VN	-10	-4.11	-0.002156	2.5	PASS
Band II	9538	VN	0	-3.41	-0.001789	2.5	PASS
Band II	9538	VN	10	-3.42	-0.001792	2.5	PASS
Band II	9538	VN	20	-4.11	-0.002156	2.5	PASS
Band II	9538	VN	30	-3.45	-0.001811	2.5	PASS
Band II	9538	VN	40	-3.06	-0.001605	2.5	PASS
Band II	9538	VN	50	-3.25	-0.001706	2.5	PASS
Band V	4132	VN	-30	1.39	0.001688	2.5	PASS
Band V	4132	VN	-20	1.12	0.001350	2.5	PASS
Band V	4132	VN	-10	1.32	0.001593	2.5	PASS
Band V	4132	VN	0	0.99	0.001194	2.5	PASS
Band V	4132	VN	10	1.52	0.001835	2.5	PASS
Band V	4132	VN	20	1.49	0.001800	2.5	PASS
Band V	4132	VN	30	1.52	0.001835	2.5	PASS
Band V	4132	VN	40	1.10	0.001333	2.5	PASS
Band V	4132	VN	50	1.57	0.001895	2.5	PASS
Band V	4182	VN	-30	-0.04	-0.000051	2.5	PASS
Band V	4182	VN	-20	-0.14	-0.000171	2.5	PASS
Band V	4182	VN	-10	0.36	0.000428	2.5	PASS
Band V	4182	VN	0	-0.21	-0.000248	2.5	PASS
Band V	4182	VN	10	0.02	0.000026	2.5	PASS
Band V	4182	VN	20	0.02	0.000026	2.5	PASS
Band V	4182	VN	30	-0.18	-0.000214	2.5	PASS
Band V	4182	VN	40	0.25	0.000299	2.5	PASS
Band V	4182	VN	50	-0.16	-0.000188	2.5	PASS
Band V	4233	VN	-30	-1.27	-0.001495	2.5	PASS



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Band V	4233	VN	-20	-0.62	-0.000727	2.5	PASS
Band V	4233	VN	-10	-1.17	-0.001377	2.5	PASS
Band V	4233	VN	0	-1.14	-0.001343	2.5	PASS
Band V	4233	VN	10	-1.72	-0.002028	2.5	PASS
Band V	4233	VN	20	-1.24	-0.001462	2.5	PASS
Band V	4233	VN	30	-1.46	-0.001724	2.5	PASS
Band V	4233	VN	40	-0.59	-0.000701	2.5	PASS
Band V	4233	VN	50	-1.03	-0.001217	2.5	PASS

The End



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