



# Appendix B

## WCDMA BAND II & IV & V



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## CONTENT

	Page
1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	4
1.1. Test Result.....	4
2. PEAK-TO-AVERAGE RATIO .....	5
2.1. Test Result.....	5
2.2. Test Plots.....	5
3. MODULATION CHARACTERISTICS .....	10
3.1. For WCDMA.....	10
3.1.1. Test BAND = WCDMA BAND II.....	10
3.1.1.1. Test Mode = UMTS/TM1 .....	10
3.1.1.1.1. Test Channel = MCH.....	10
3.1.2. Test BAND = WCDMA BAND IV.....	11
3.1.2.1. Test Mode = UMTS/TM1 .....	11
3.1.2.1.1. Test Channel = MCH.....	11
3.1.3. Test BAND = WCDMA BAND V.....	12
3.1.3.1. Test Mode = UMTS /TM1 .....	12
3.1.3.1.1. Test Channel = MCH.....	12
4. 26dB BANDWIDTH AND OCCUPIED BANDWIDTH .....	13
4.1. Test Result.....	13
4.2. Test Plots.....	13
5. BAND EDGE COMPLIANCE.....	18
5.1. Test Plots.....	18
6. SPURIOUS EMISSION AT ANTENNA TERMINAL .....	21
6.1. Test Plots.....	21
7. FIELD STRENGTH OF SPURIOUS RADIATION.....	45
7.1. For WCDMA.....	45
7.1.1. Test Band = WCDMA BAND II.....	45
7.1.1.1. Test Mode = UMTS/TM1 .....	45
7.1.1.1.1. Test Channel = LCH.....	45
7.1.1.1.2. Test Channel = MCH.....	45
7.1.1.1.3. Test Channel = HCH.....	46
7.1.2. Test Band = WCDMA BAND IV.....	46



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7.1.2.1.	Test Mode = UMTS/TM1 .....	46
7.1.2.1.1.	Test Channel = LCH.....	46
7.1.2.1.2.	Test Channel = MCH.....	46
7.1.2.1.3.	Test Channel = HCH.....	47
7.1.3.	Test Band = WCDMA BAND V.....	47
7.1.3.1.	Test Mode = UMTS/TM1 .....	47
7.1.3.1.1.	Test Channel = LCH.....	47
7.1.3.1.2.	Test Channel = MCH.....	48
7.1.3.1.3.	Test Channel = HCH.....	48
8.	FREQUENCY STABILITY.....	50
8.1.	Frequency Vs Voltage.....	50
8.2.	Frequency Vs Temperature .....	51



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1. Test Result

BAND	Channel	Conducted Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	23.88	25.47	33.00	PASS
Band II	9400	23.79	25.38	33.00	PASS
Band II	9538	23.76	25.35	33.00	PASS
Band IV	1312	23.82	25.82	30.00	PASS
Band IV	1413	23.74	25.74	30.00	PASS
Band IV	1513	23.64	25.64	30.00	PASS

BAND	Channel	Conducted Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.86	24.00	38.45	PASS
Band V	4182	23.81	23.95	38.45	PASS
Band V	4233	23.76	23.90	38.45	PASS

**Remark:**

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

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

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



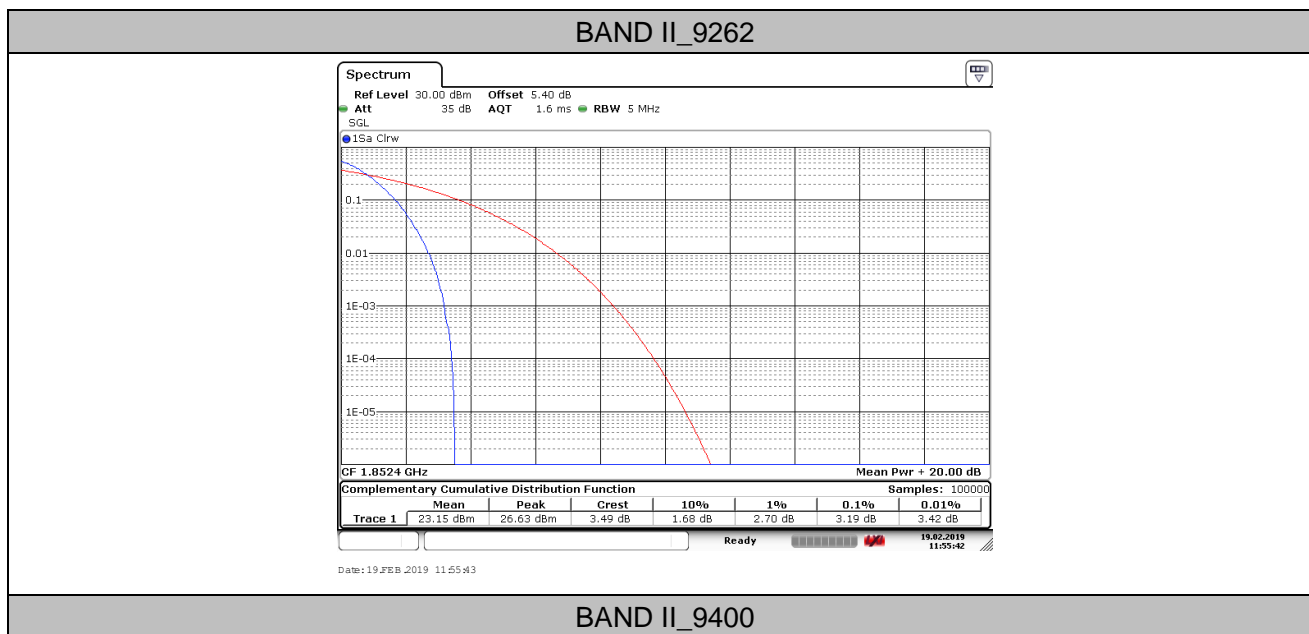
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## 2. Peak-to-Average Ratio

### 2.1. Test Result

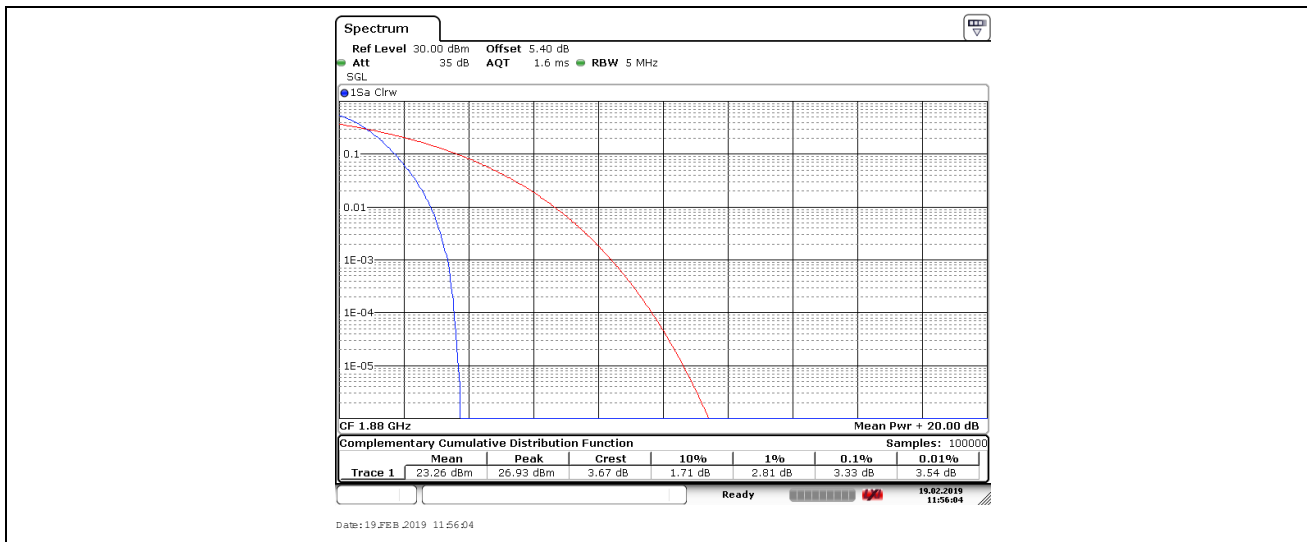
BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.19	13	PASS
Band II	9400	3.33	13	PASS
Band II	9538	3.28	13	PASS
Band IV	1312	3.28	13	PASS
Band IV	1413	3.22	13	PASS
Band IV	1513	3.25	13	PASS
Band V	4132	3.25	13	PASS
Band V	4182	3.22	13	PASS
Band V	4233	2.99	13	PASS

### 2.2. Test Plots

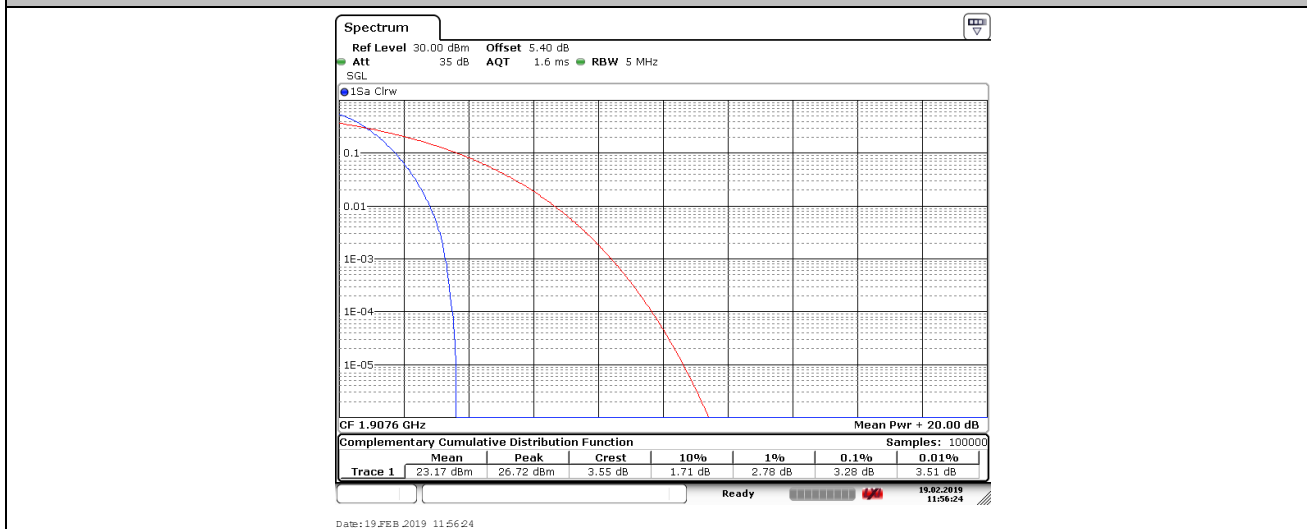


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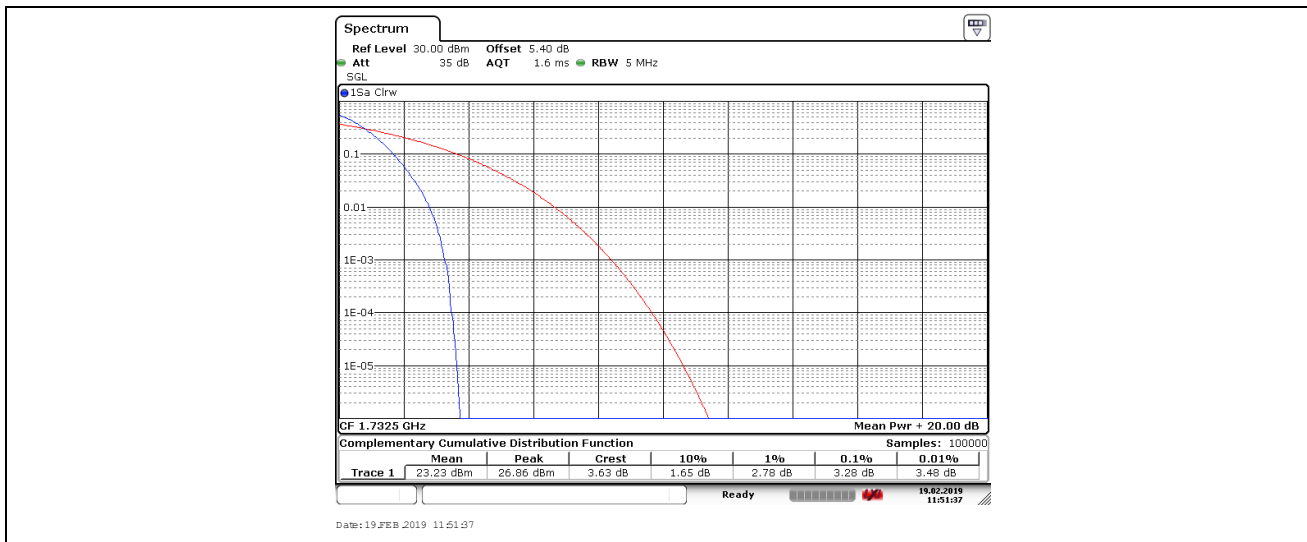
**BAND II\_9538**



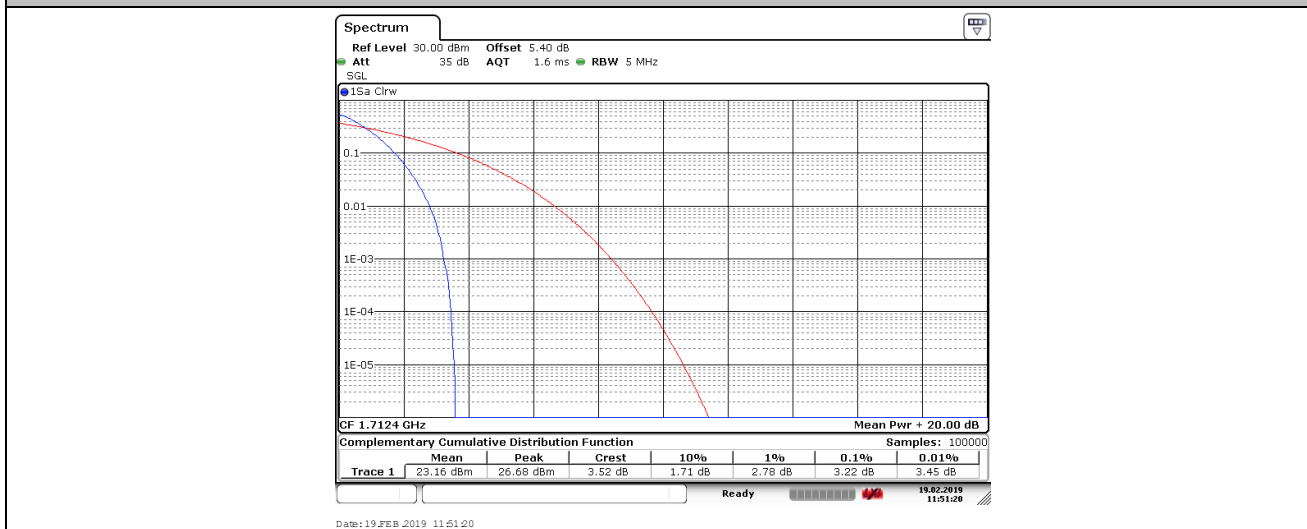
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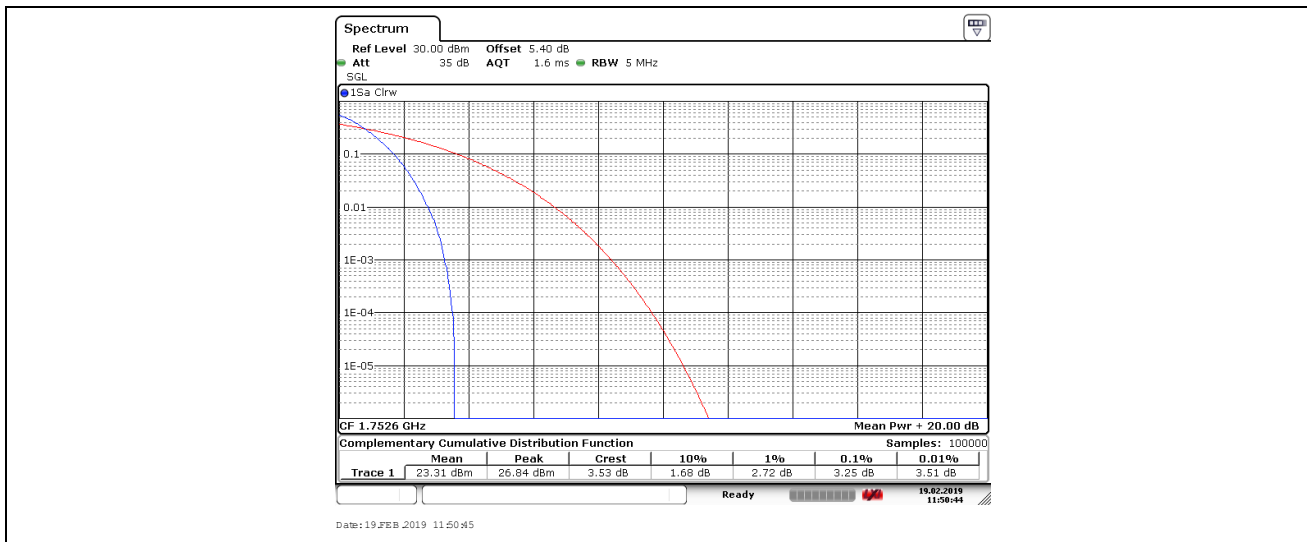
BAND IV\_1413



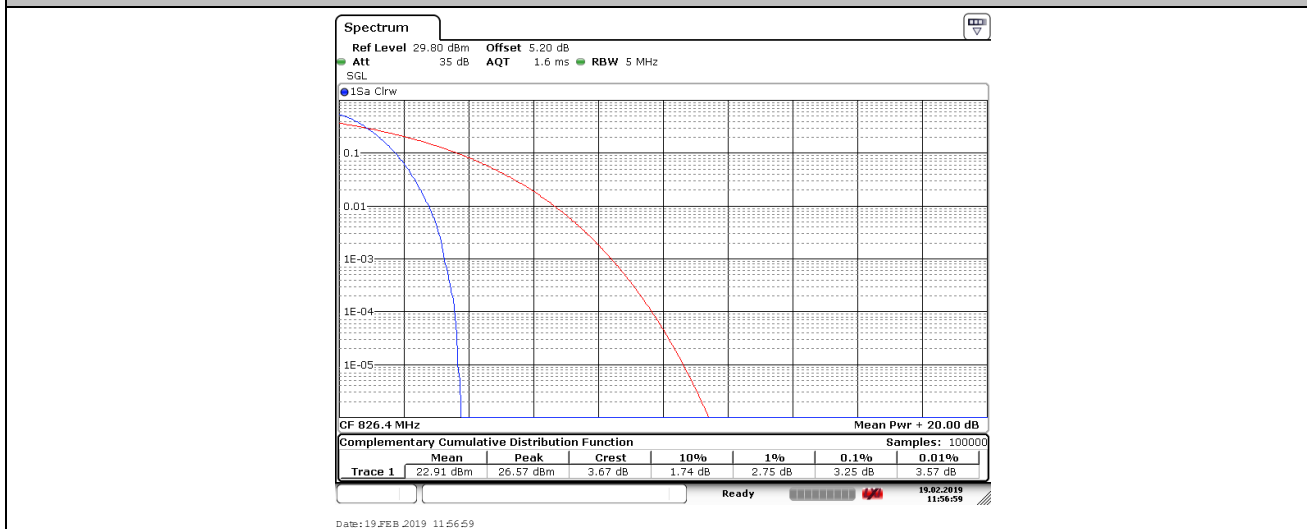
BAND IV\_1513



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BAND V\_4132



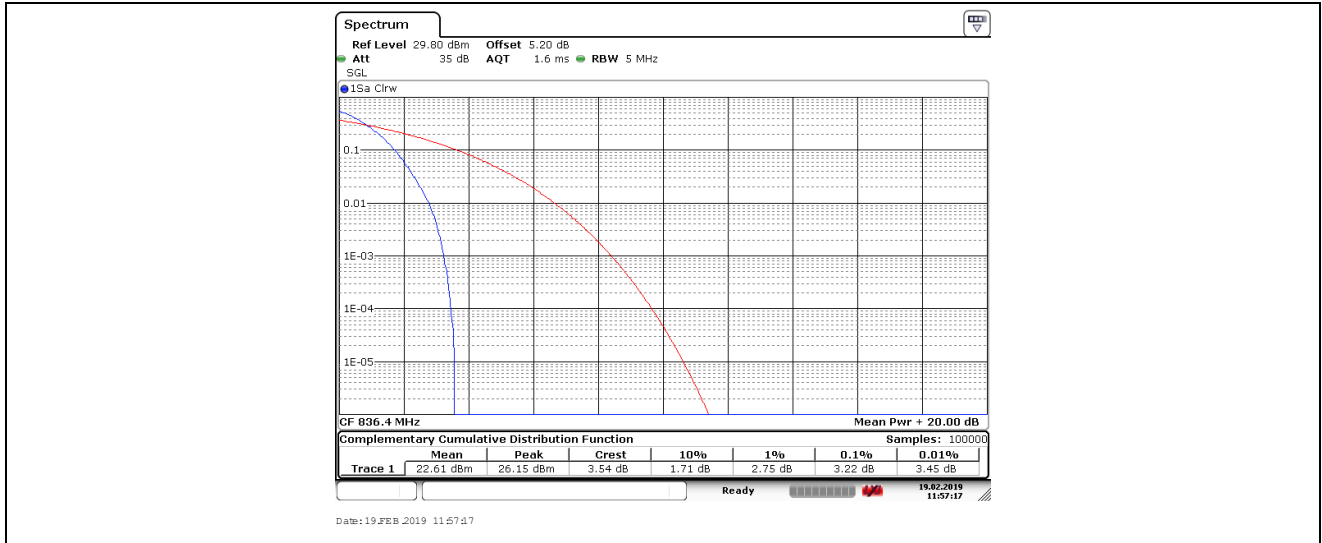
BAND V\_4182



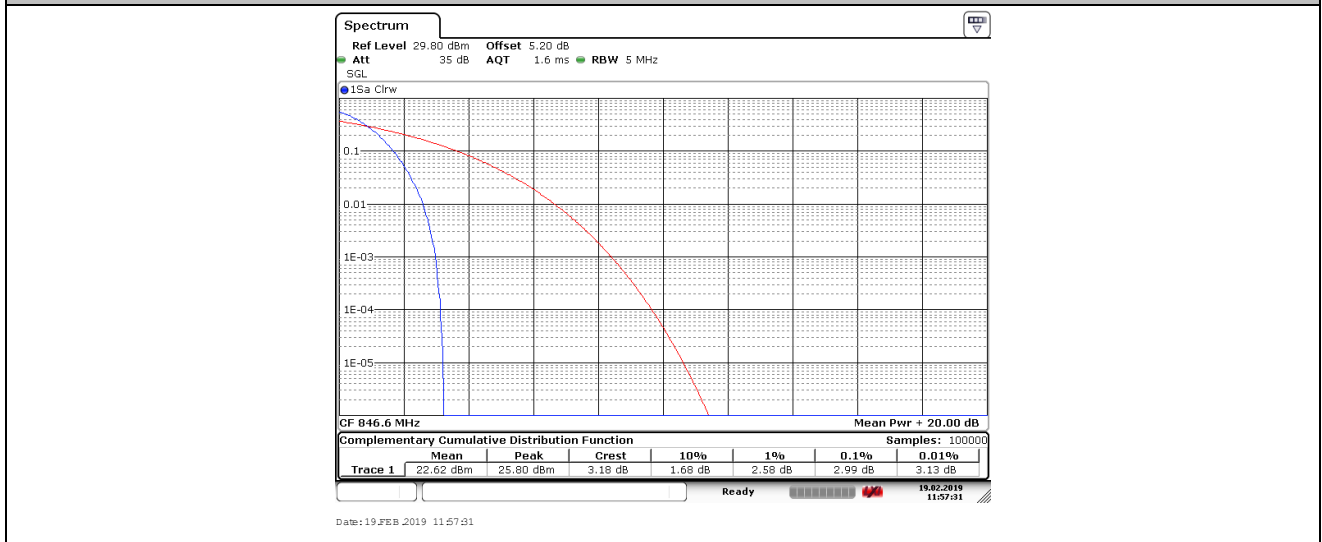
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**BAND V\_4233**



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### 3. Modulation Characteristics

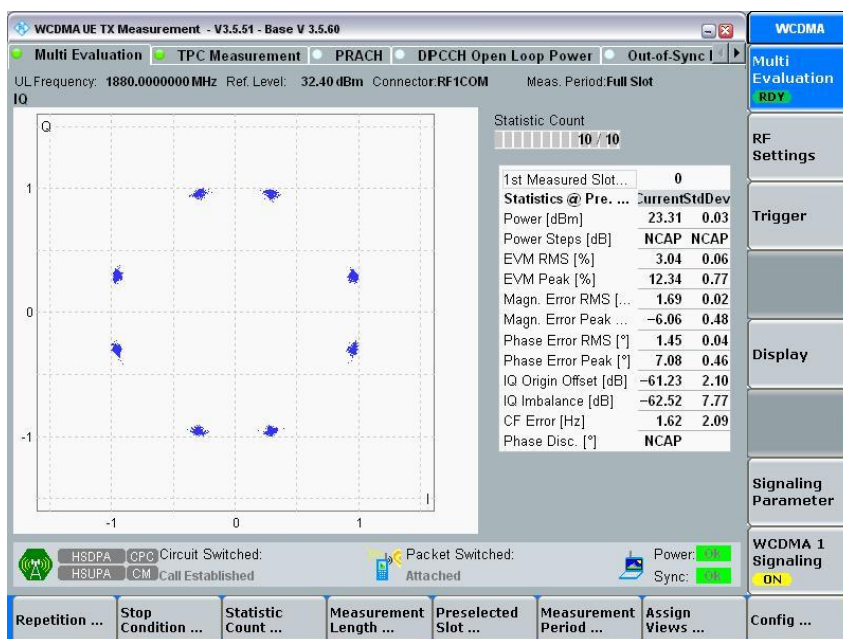
#### Part I - Test Plots

#### 3.1. For WCDMA

#### 3.1.1. Test BAND = WCDMA BAND II

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

#### 3.1.1.1.1. Test Channel = MCH

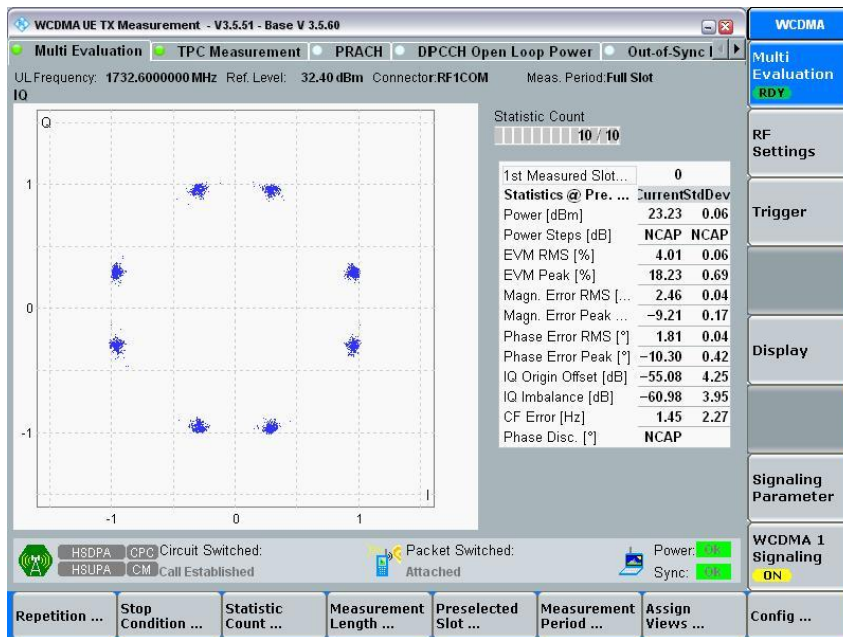


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### 3.1.2. Test BAND = WCDMA BAND IV

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

##### 3.1.2.1.1. Test Channel = MCH



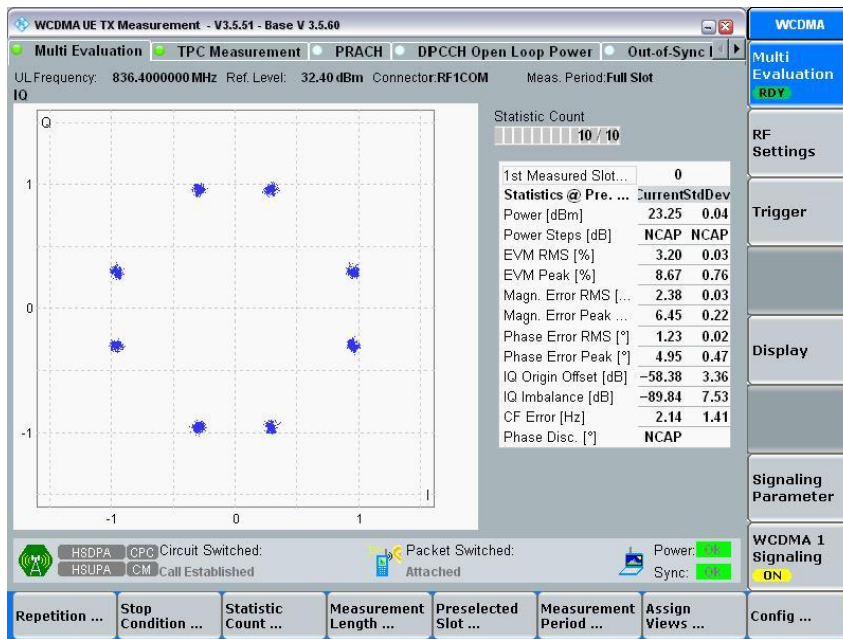
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**3.1.3. Test BAND = WCDMA BAND V**

**3.1.3.1. Test Mode = UMTS /TM1**

**3.1.3.1.1. Test Channel = MCH**



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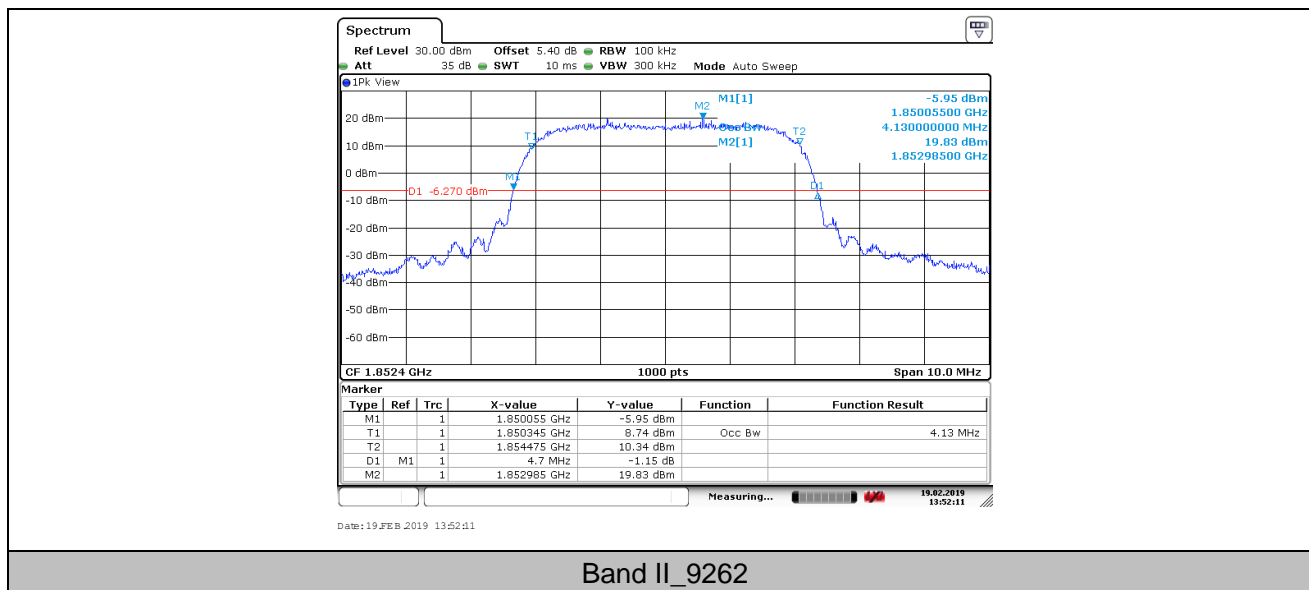
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

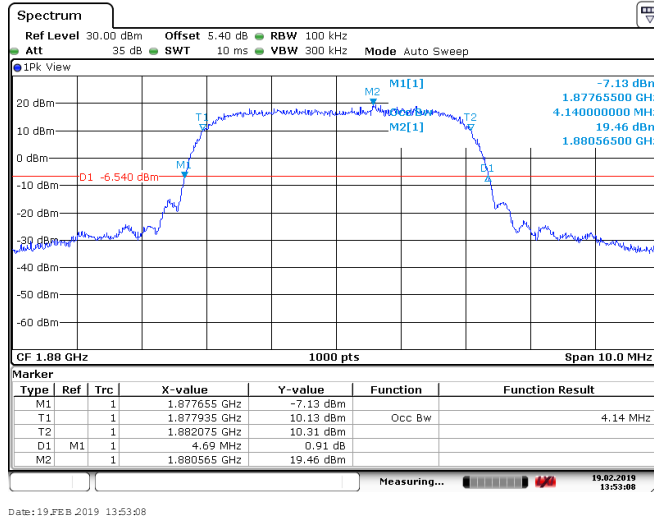
BAND	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4130.00	4700.00	---	PASS
Band II	9400	4140.00	4690.00	---	PASS
Band II	9538	4150.00	4690.00	---	PASS
Band IV	1312	4130.00	4700.00	---	PASS
Band IV	1413	4140.00	4690.00	---	PASS
Band IV	1513	4130.00	4680.00	---	PASS
Band V	4132	4130.00	4700.00	---	PASS
Band V	4182	4120.00	4690.00	---	PASS
Band V	4233	4130.00	4710.00	---	PASS

### 4.2. Test Plots

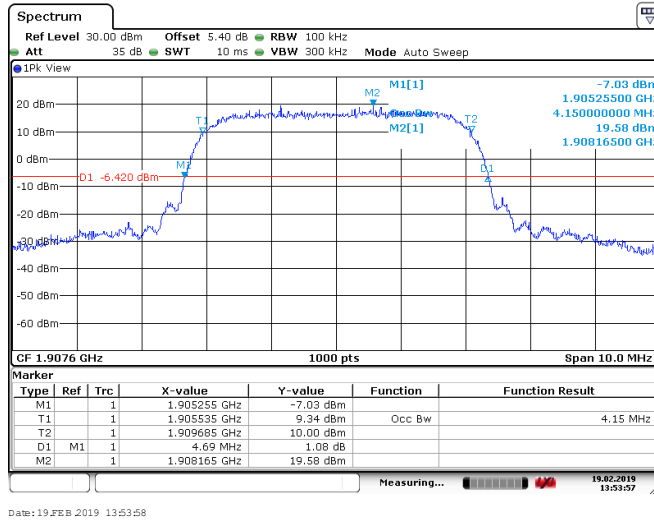


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**Band II\_9400**



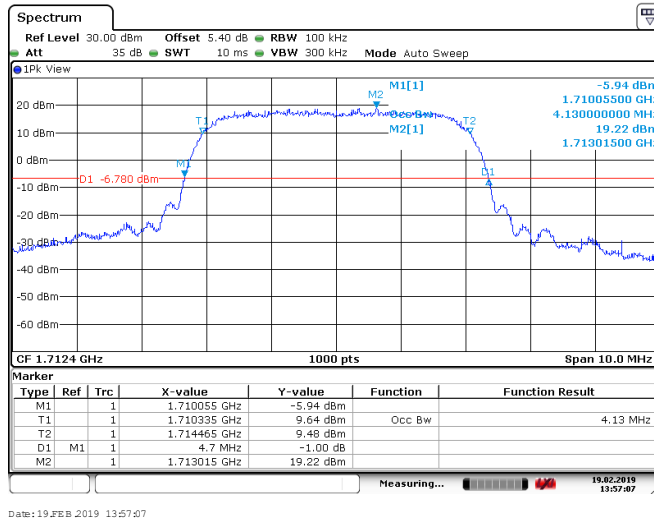
**Band II\_9538**



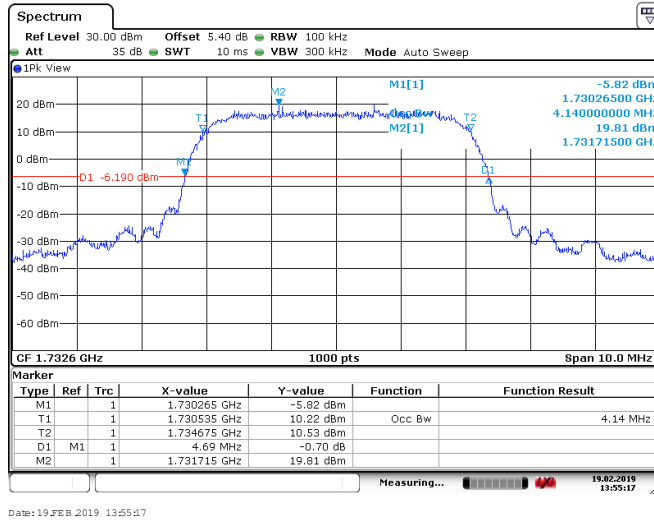
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**Band IV\_1312**



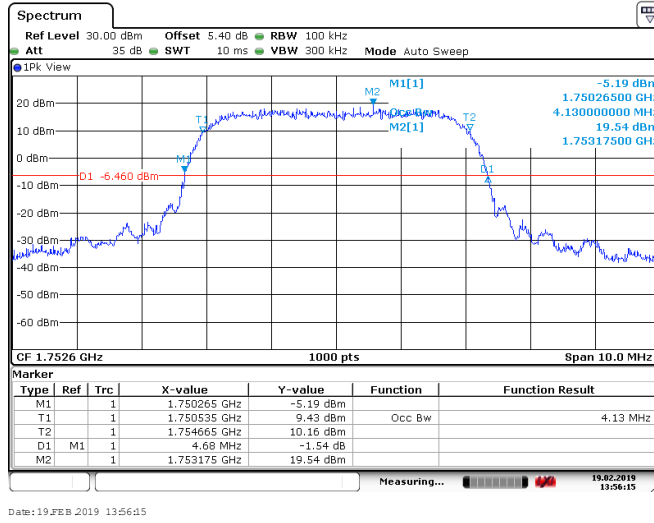
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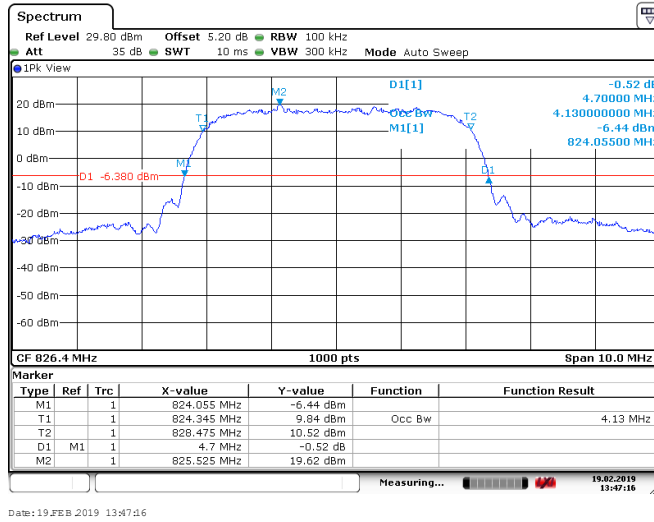
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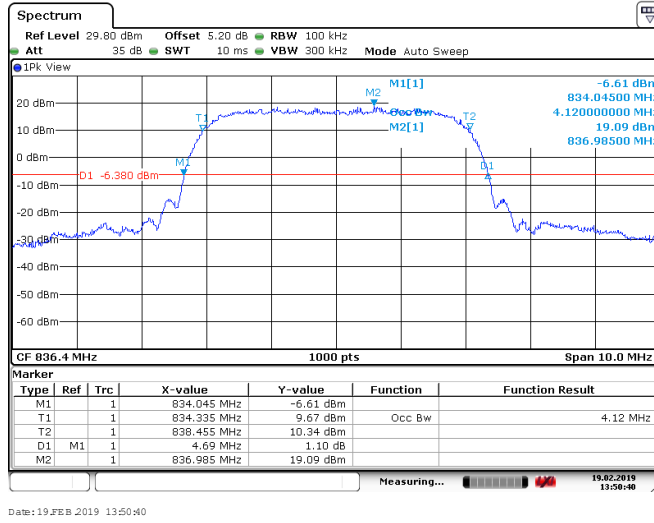


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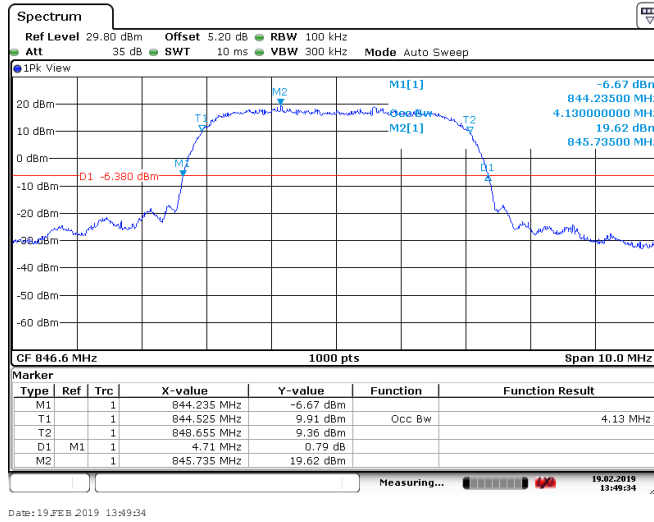


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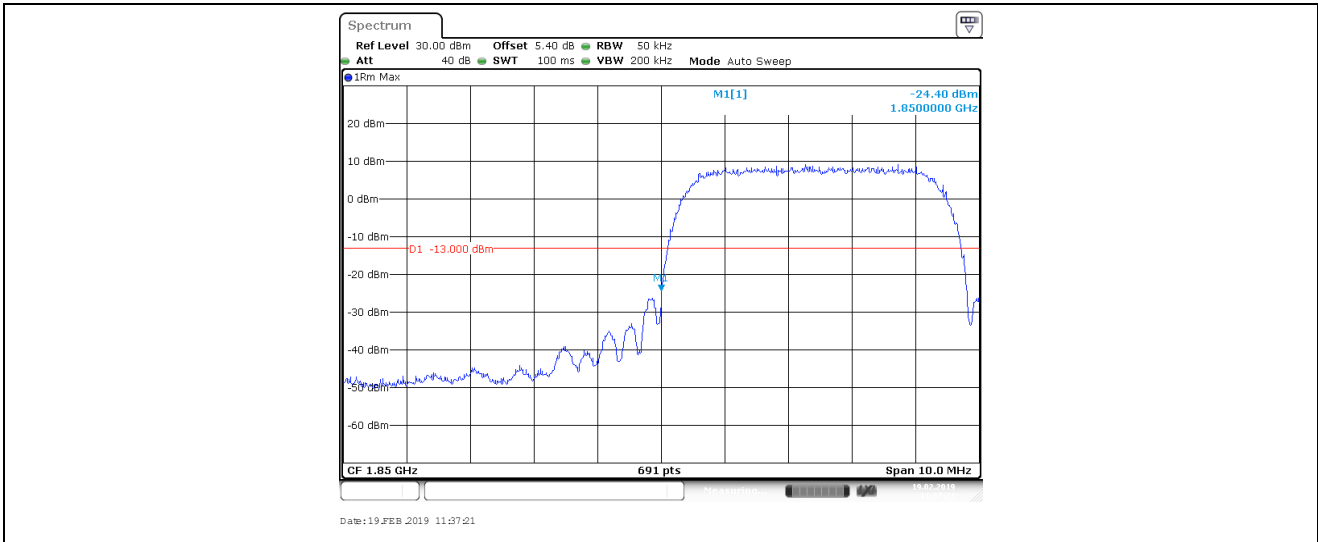
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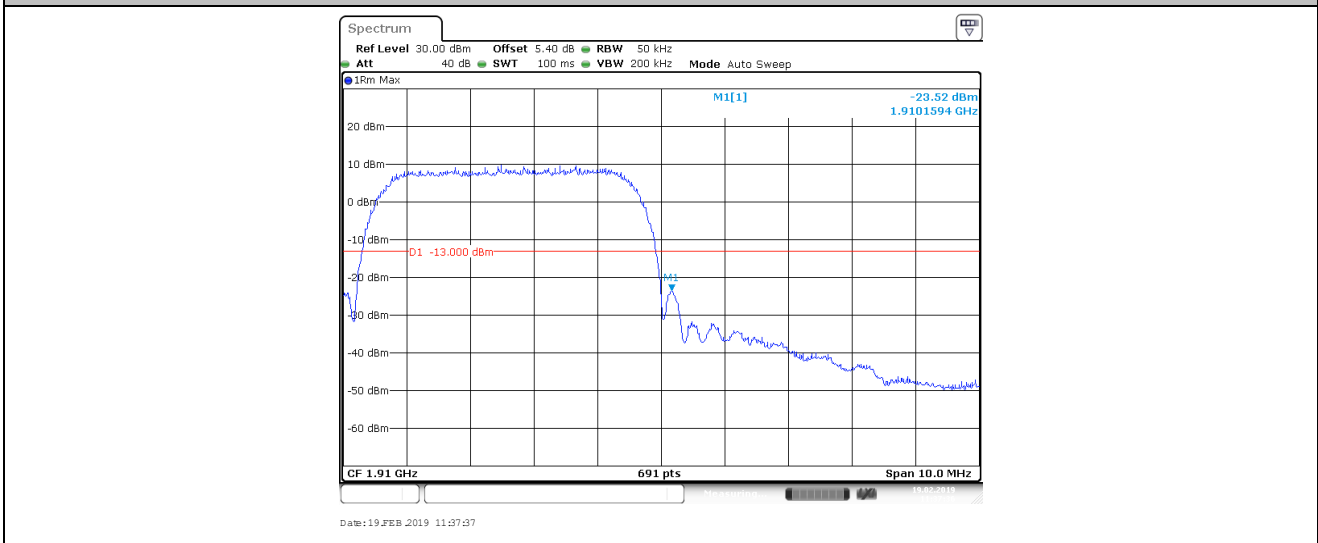
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## 5. Band Edge Compliance

### 5.1. Test Plots



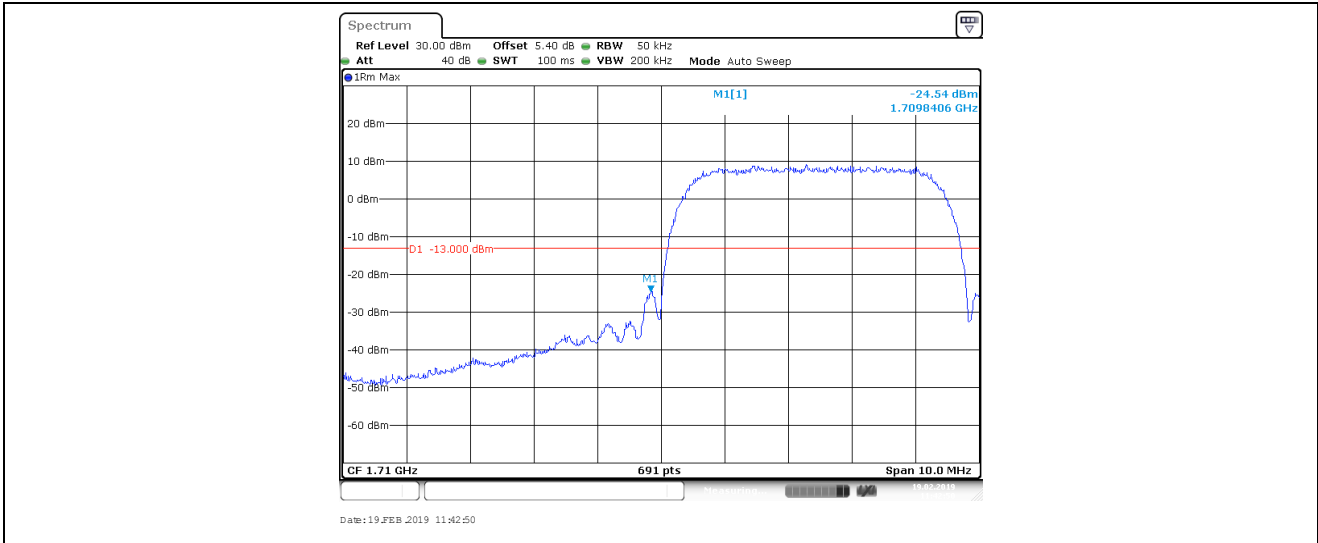
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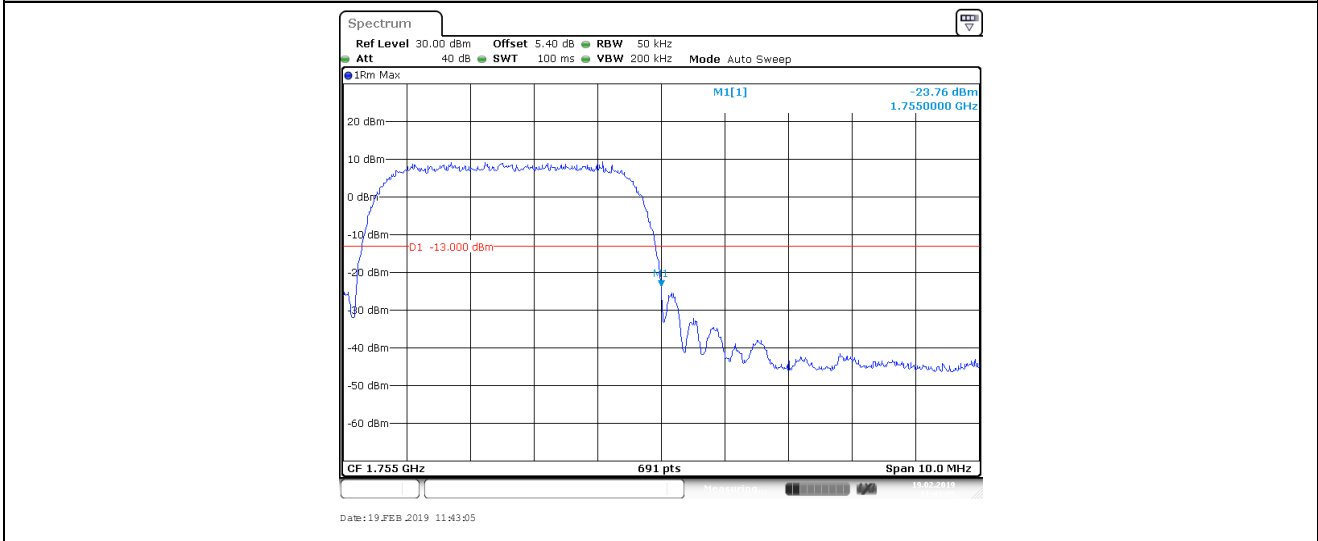
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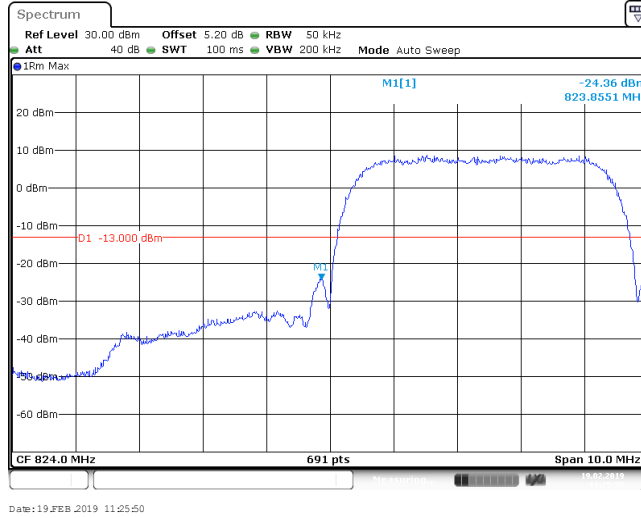


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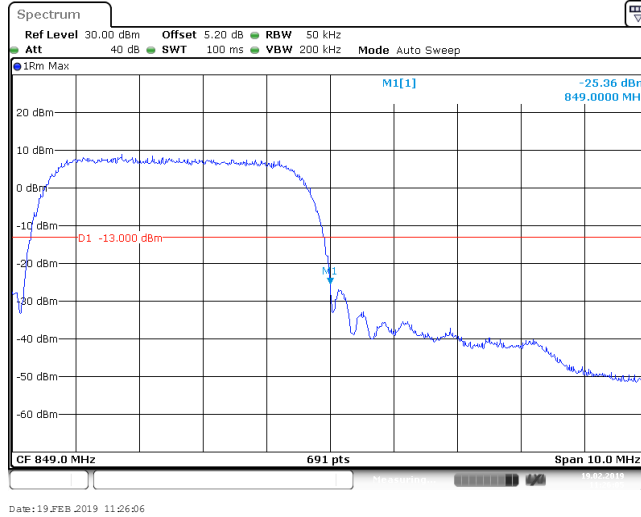
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## 6. Spurious Emission at Antenna Terminal

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.

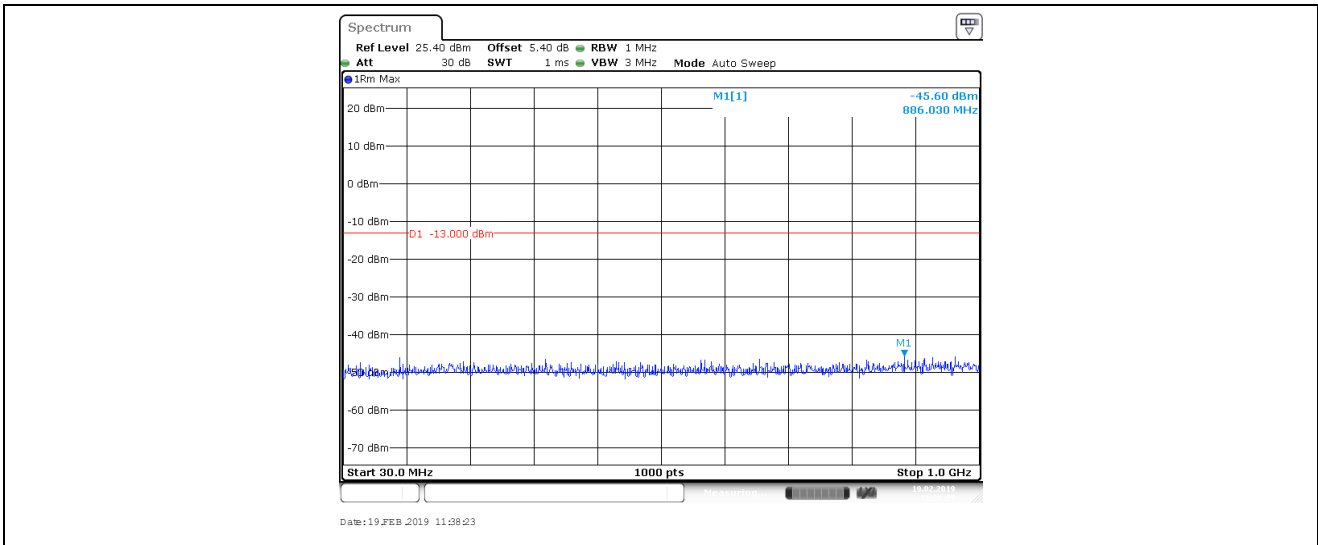
### 6.1. Test Plots



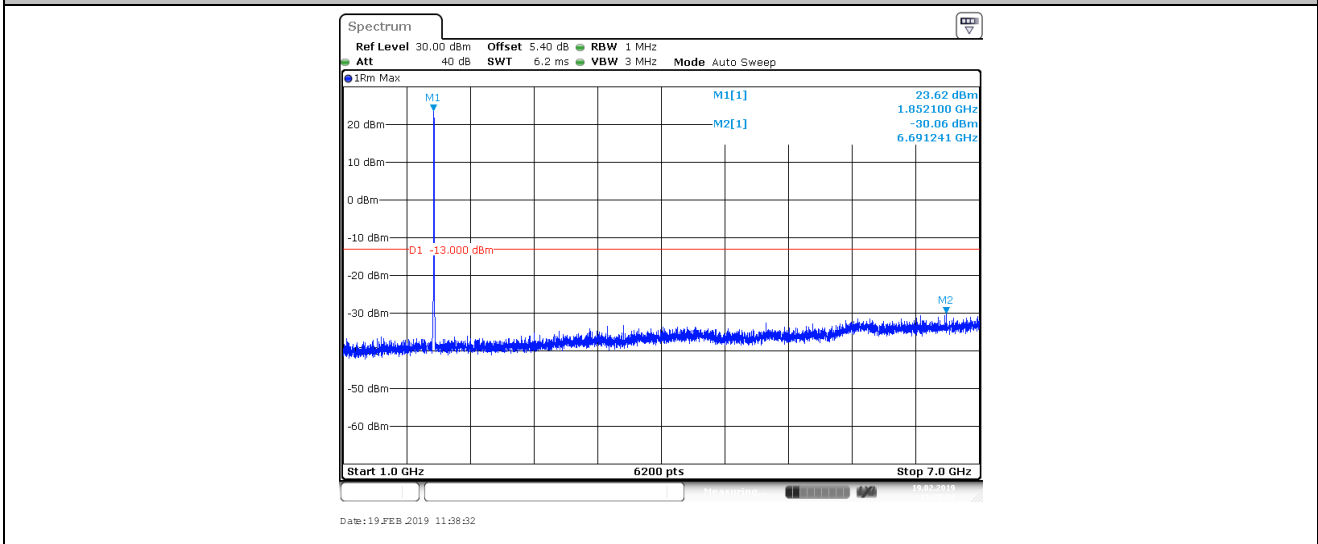
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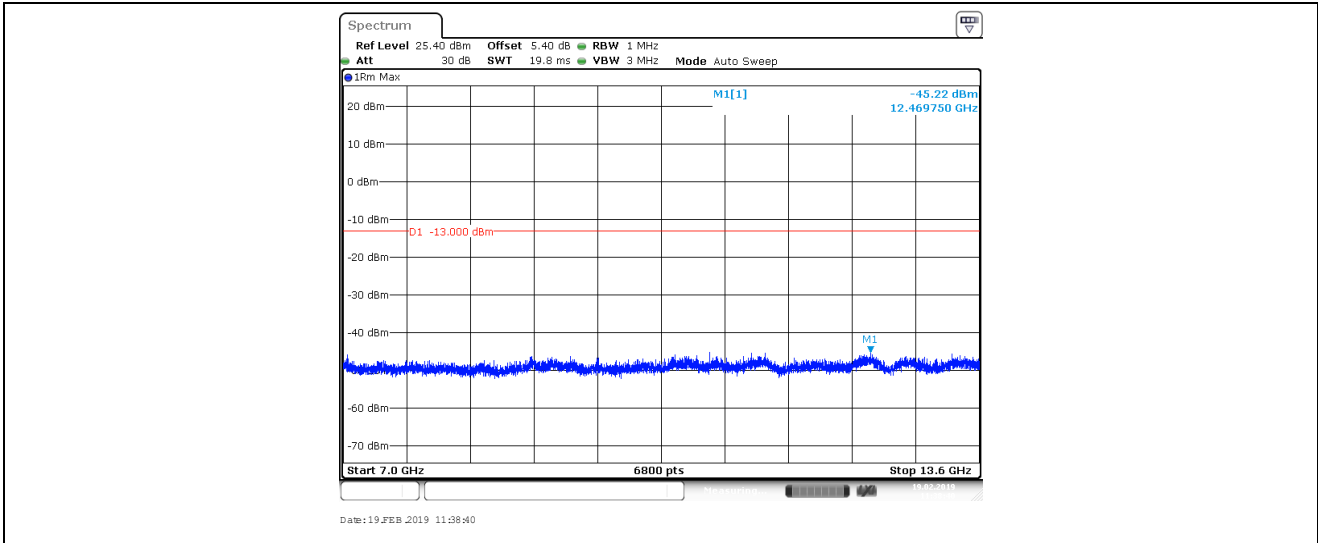


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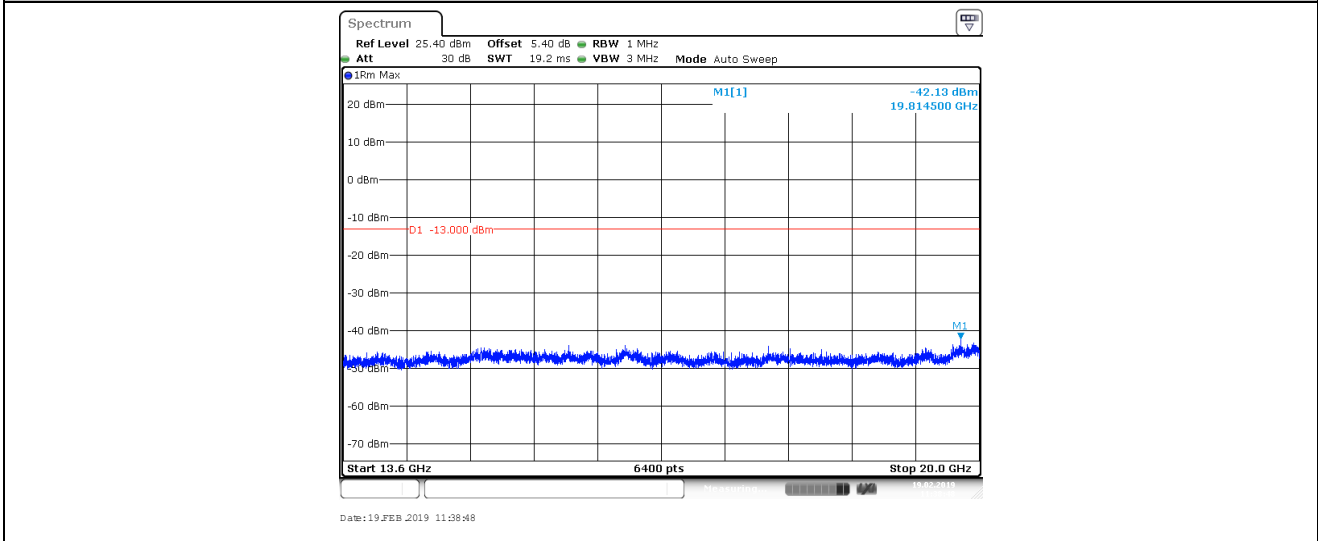


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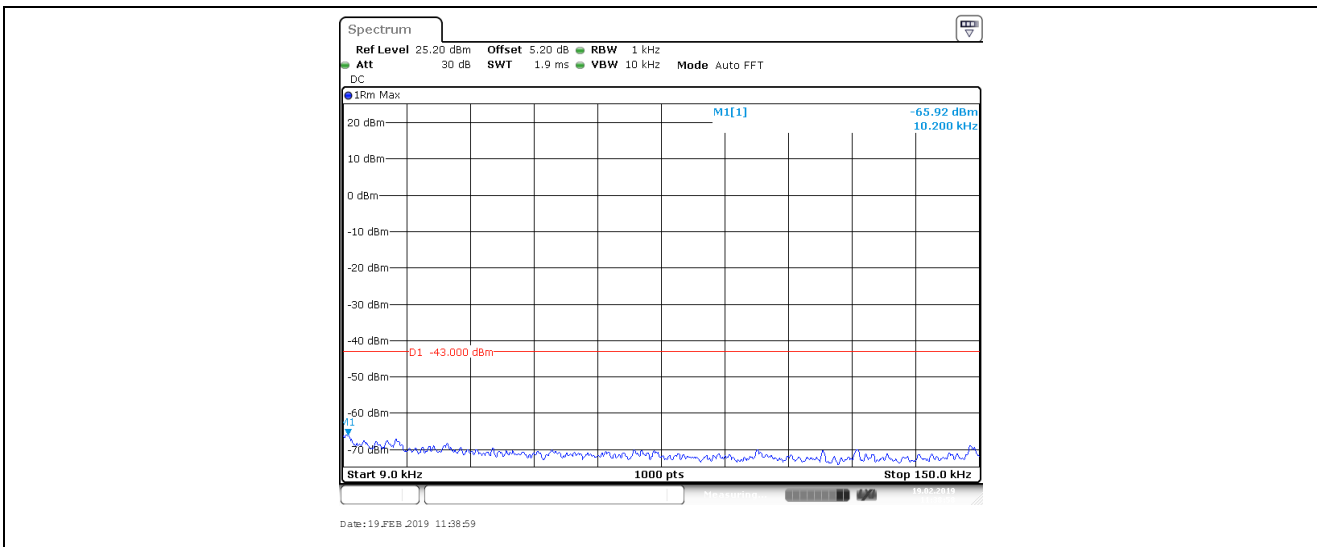


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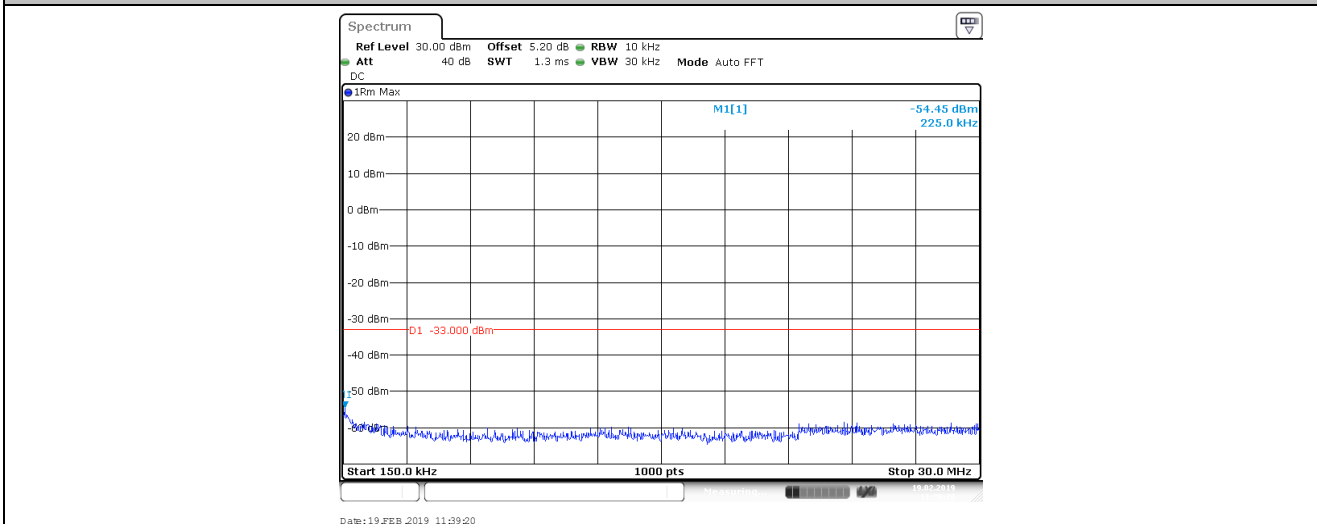


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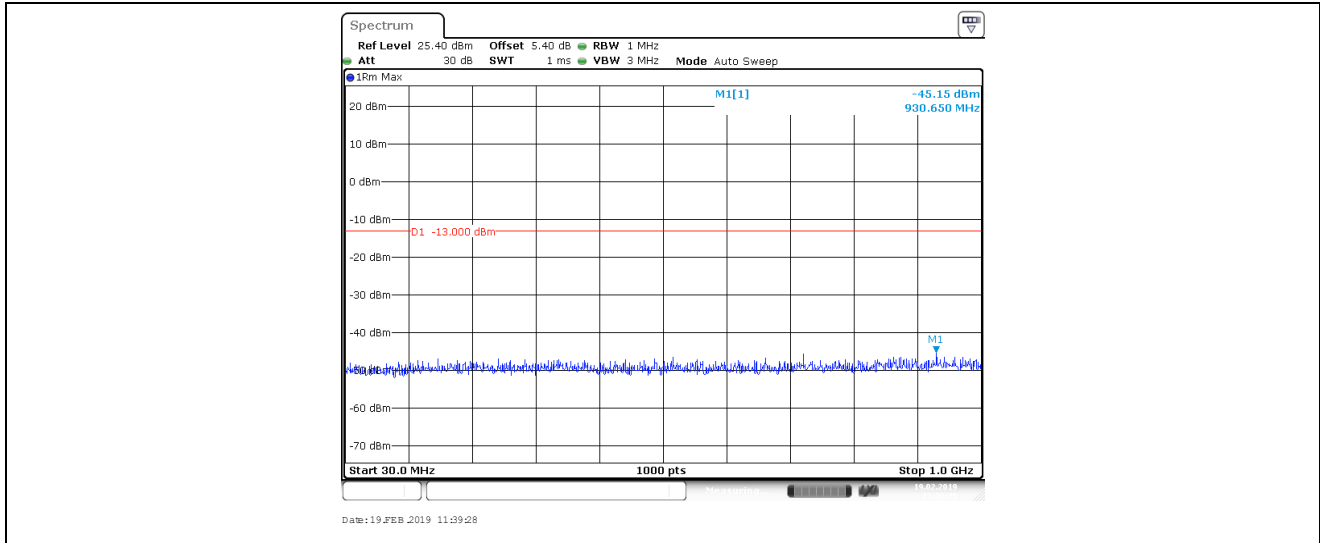
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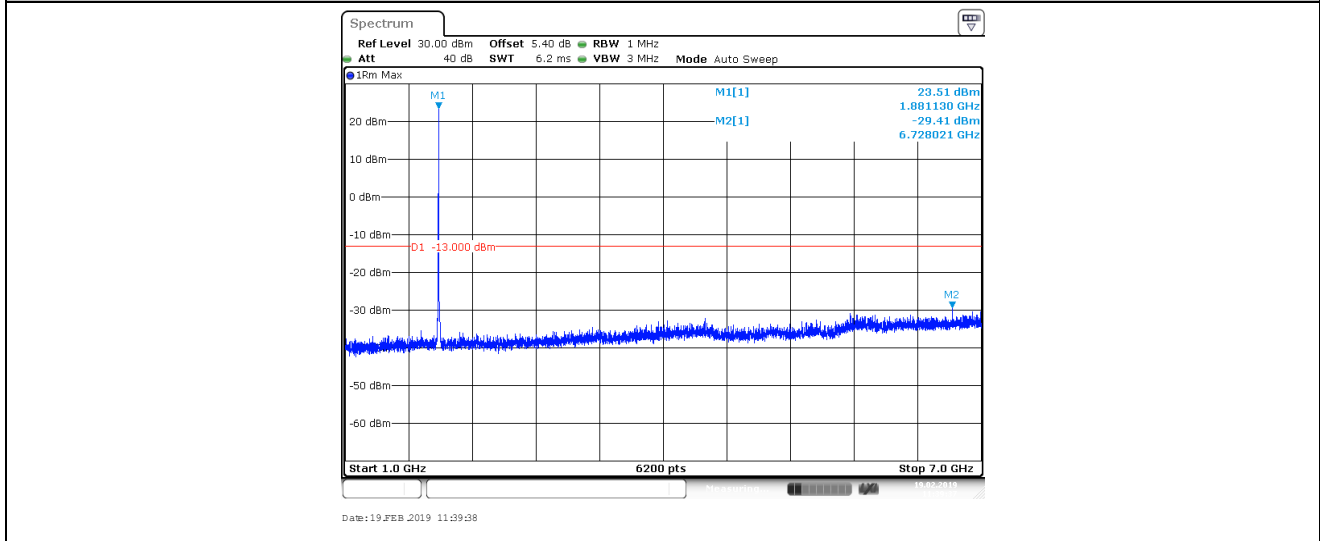
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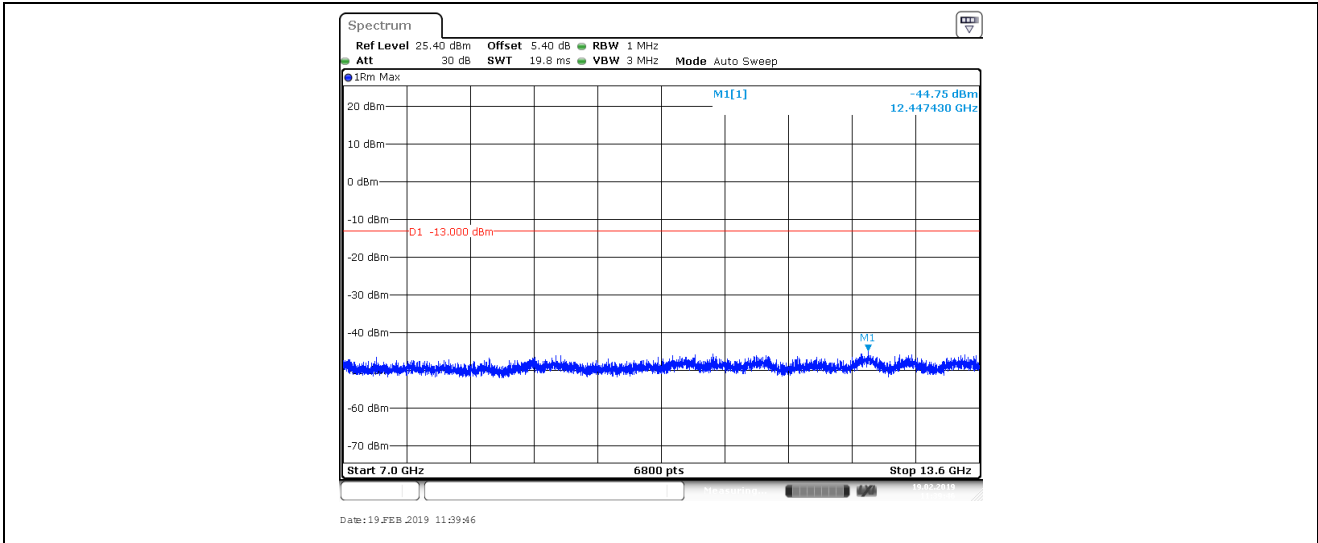


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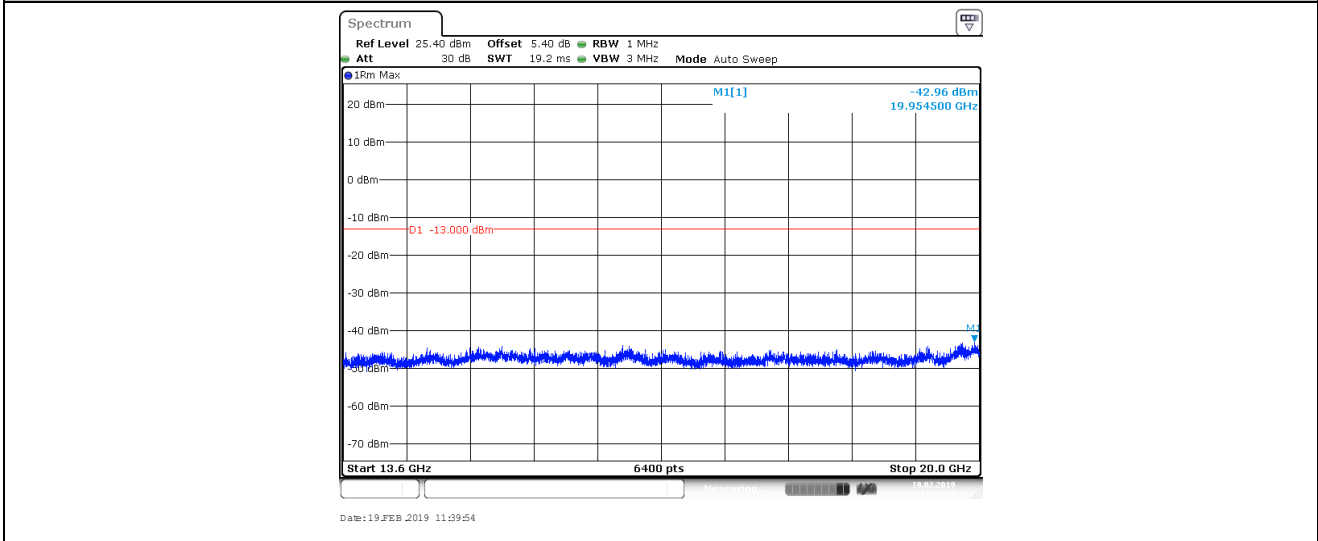


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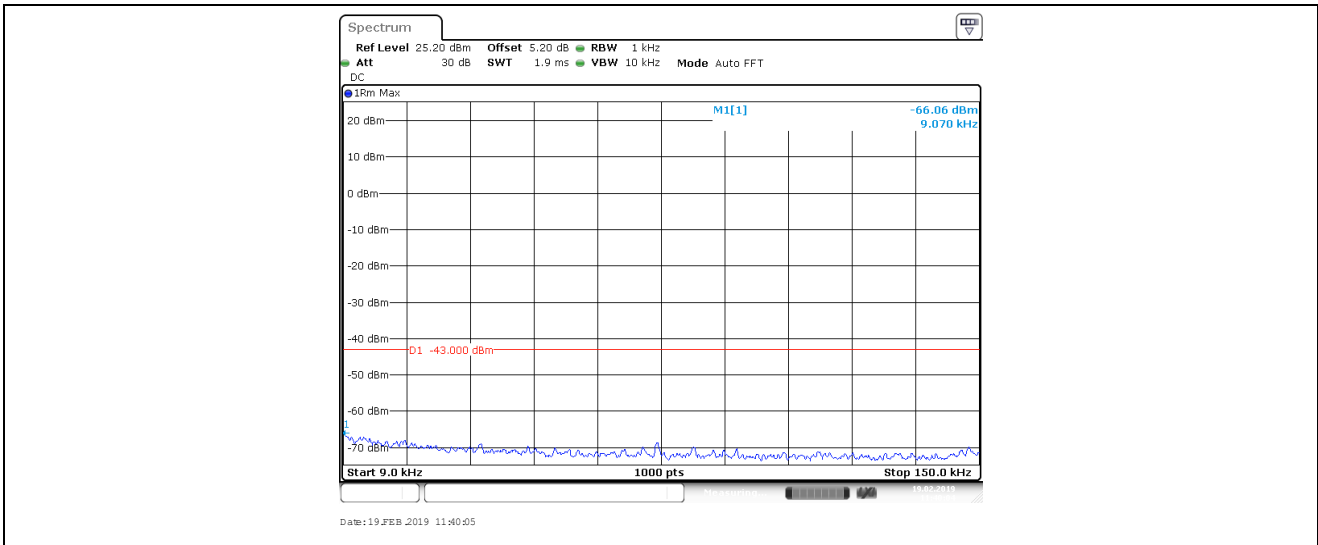


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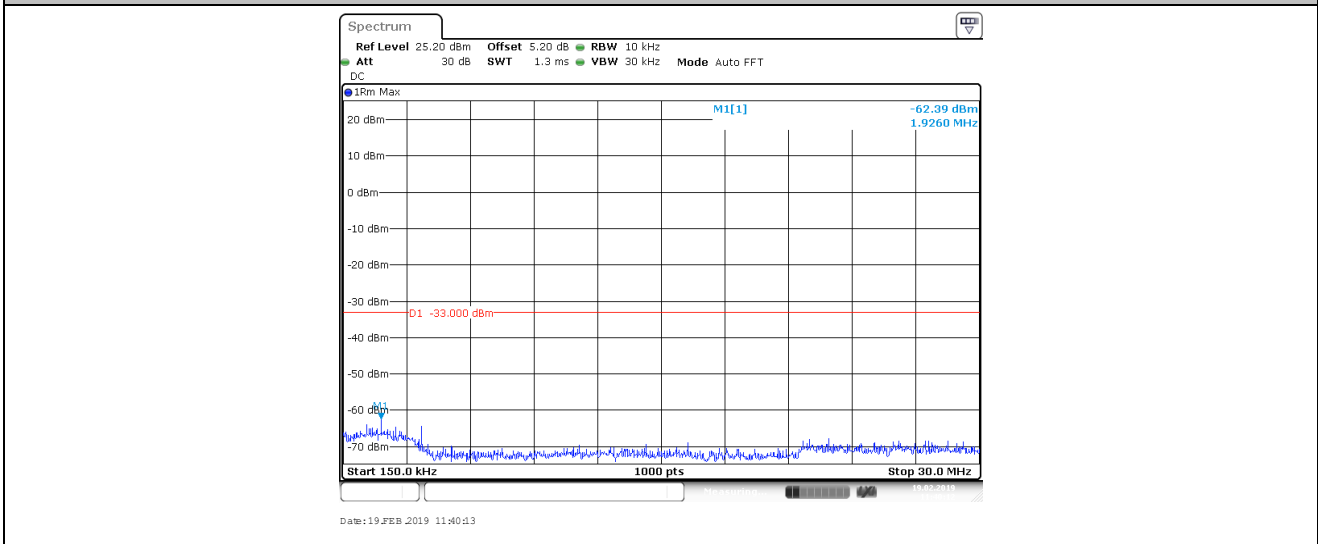


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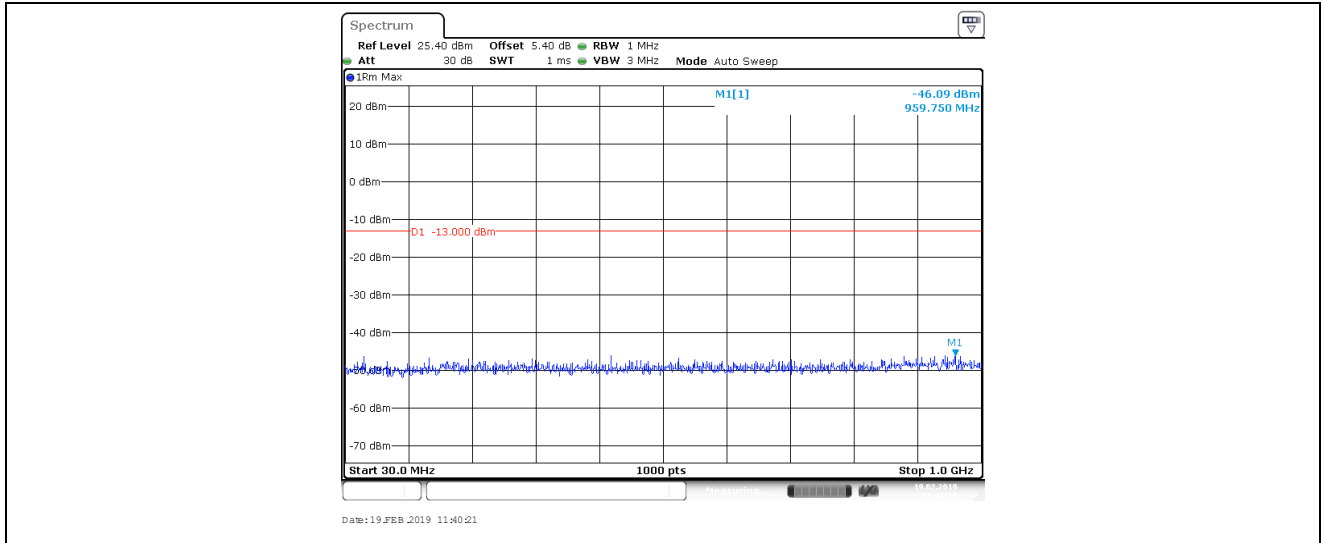
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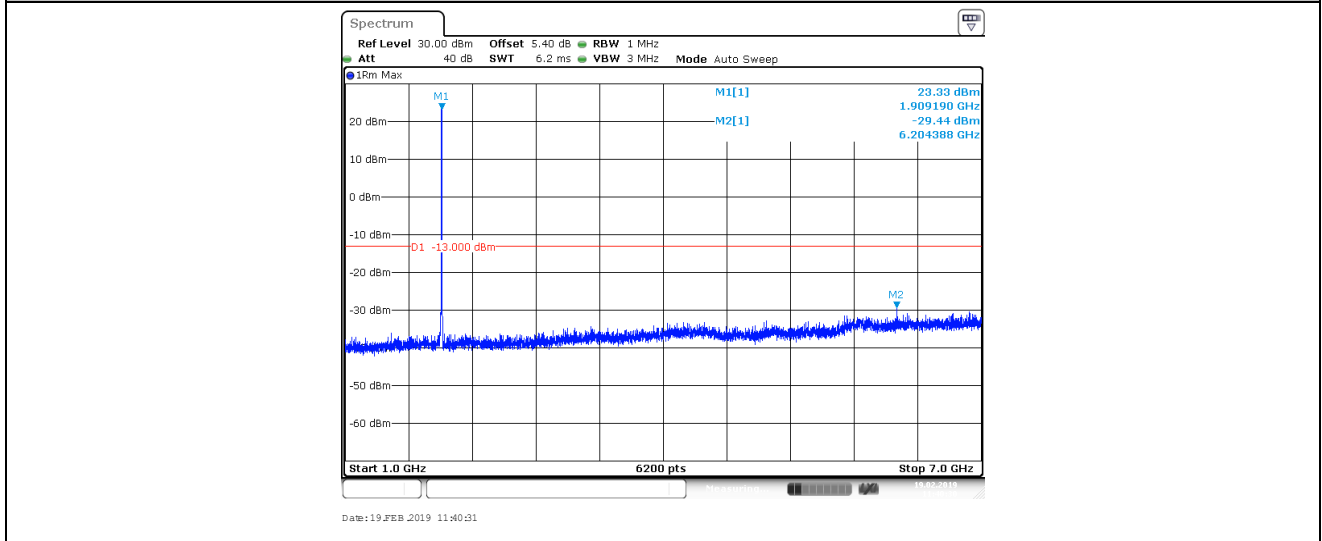
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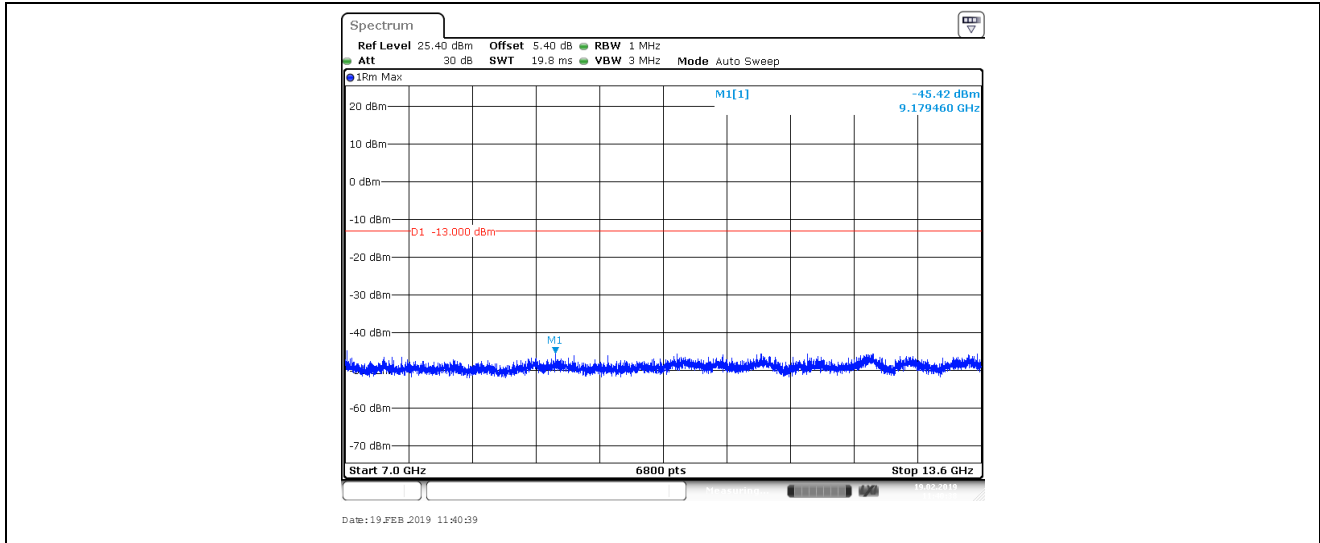


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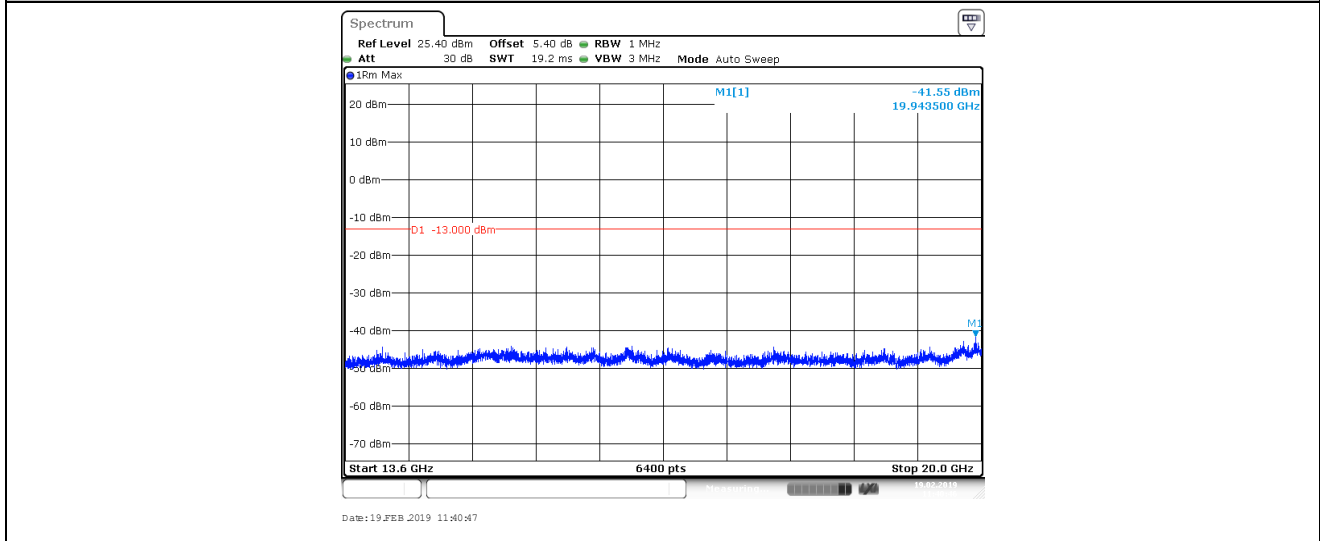


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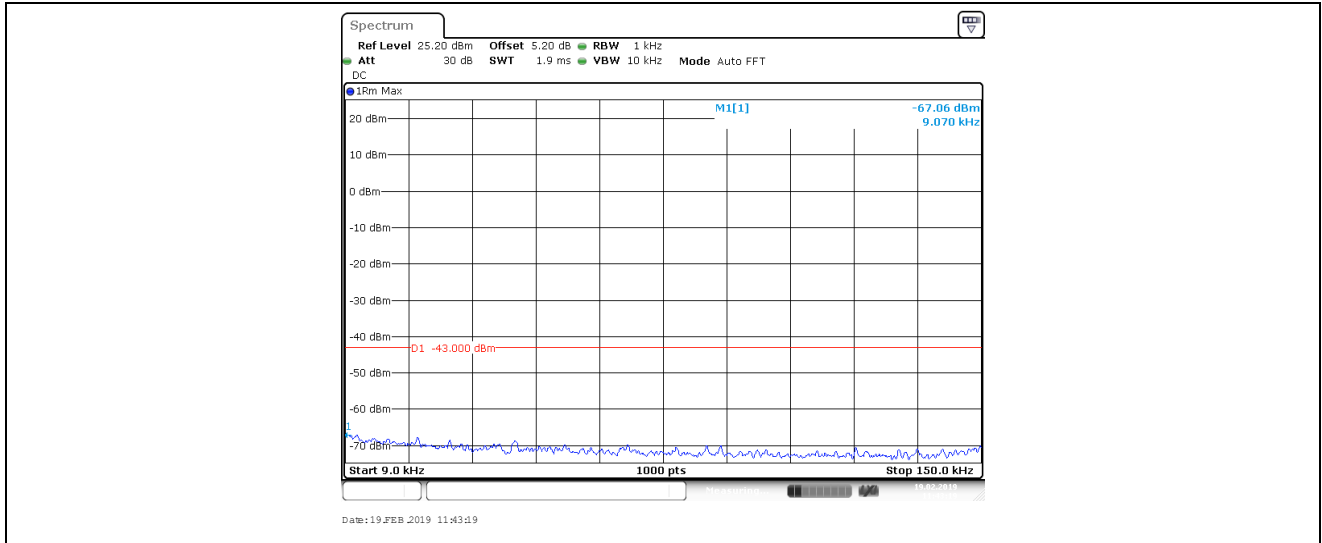


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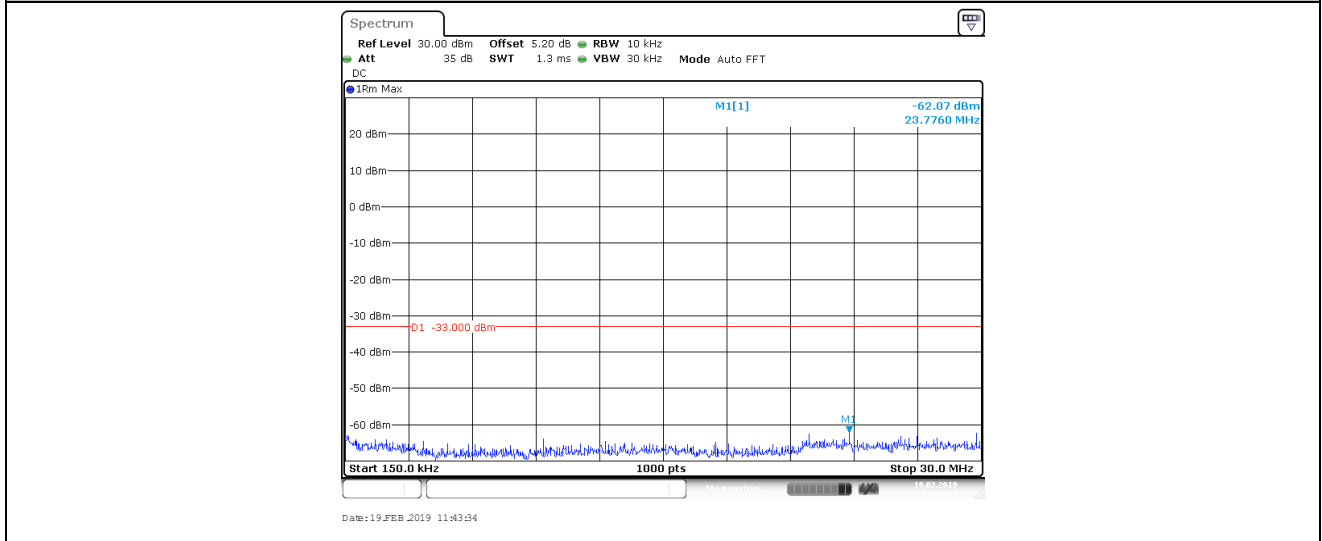


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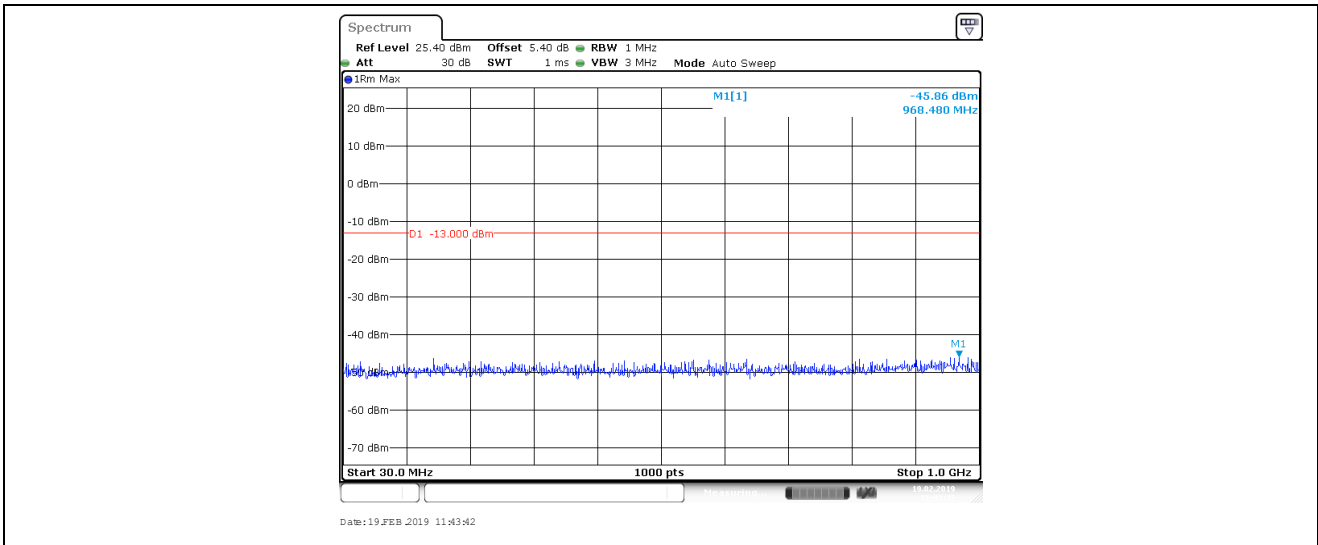
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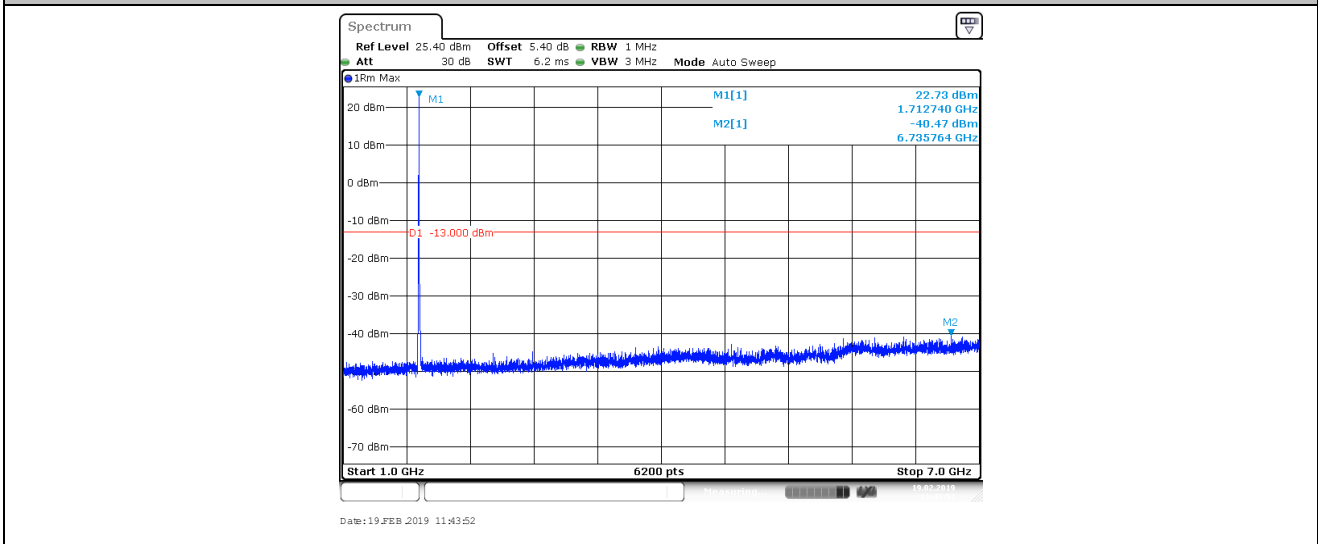
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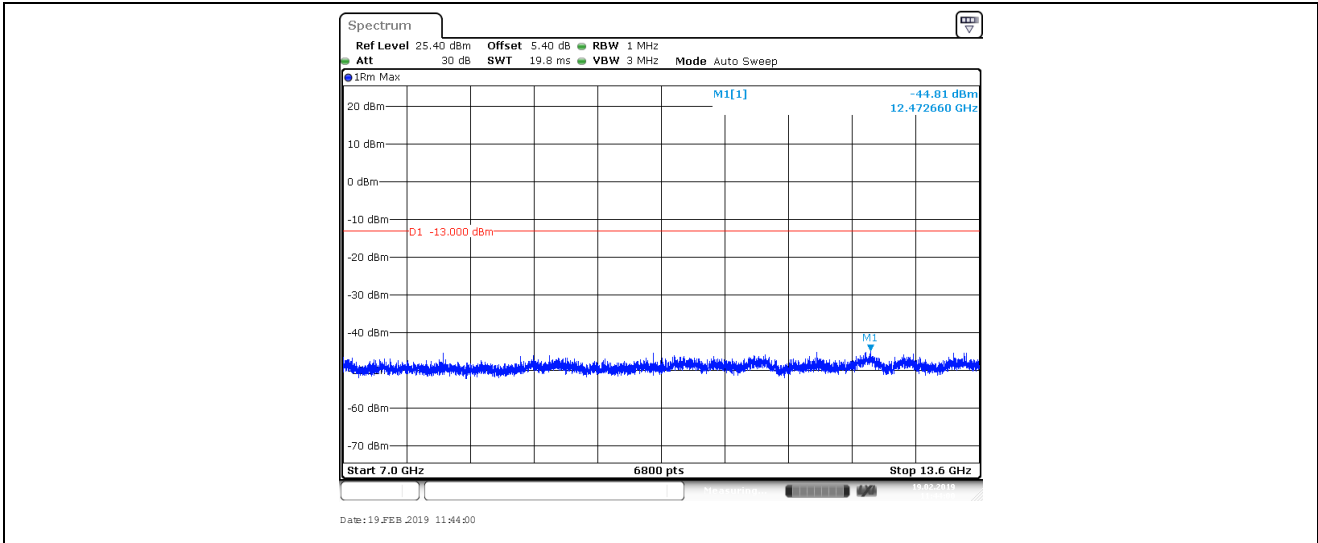
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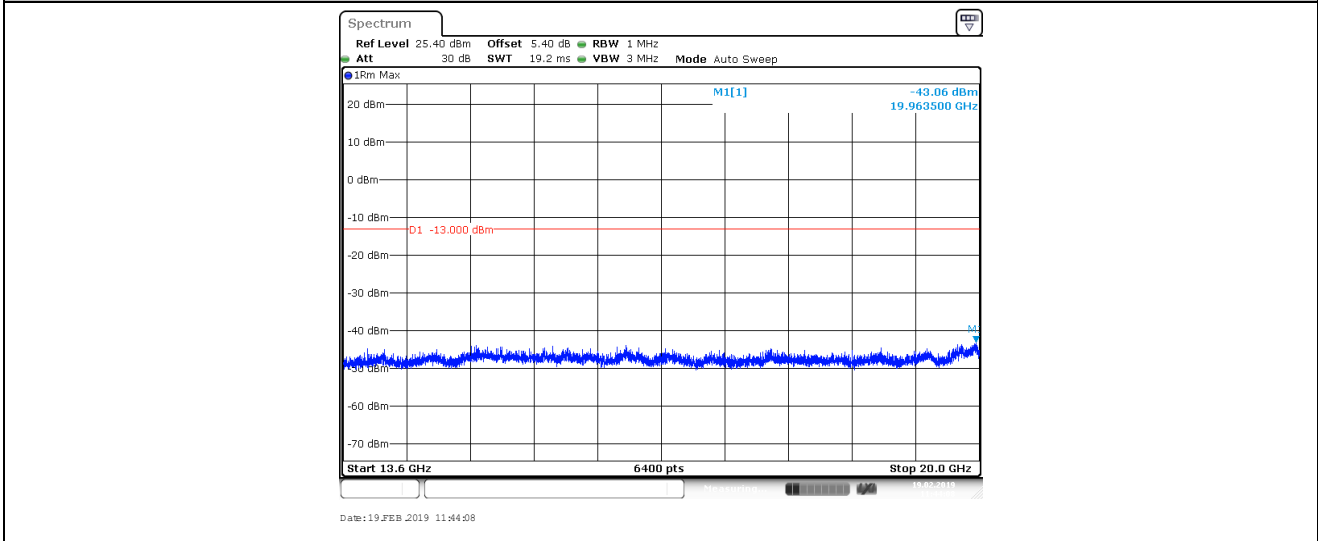
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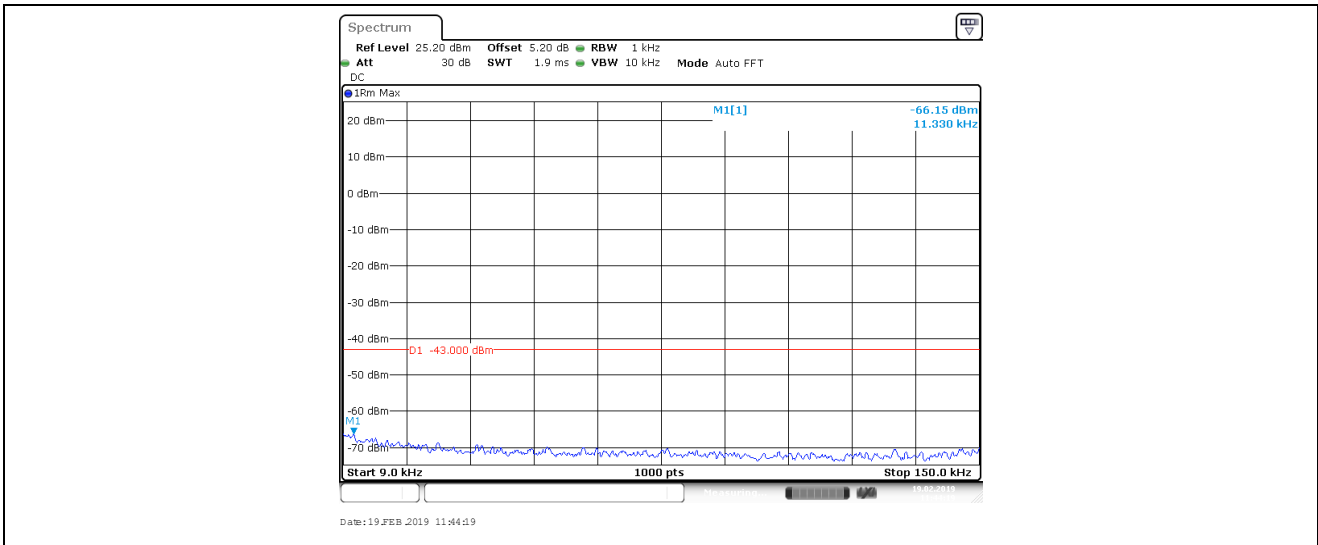
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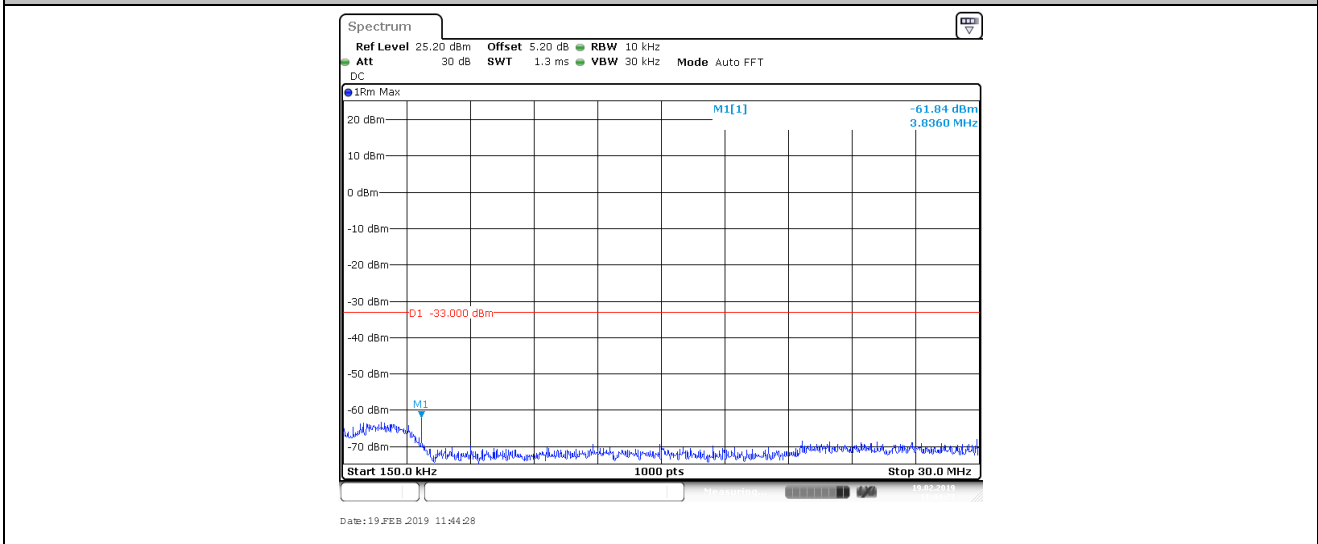
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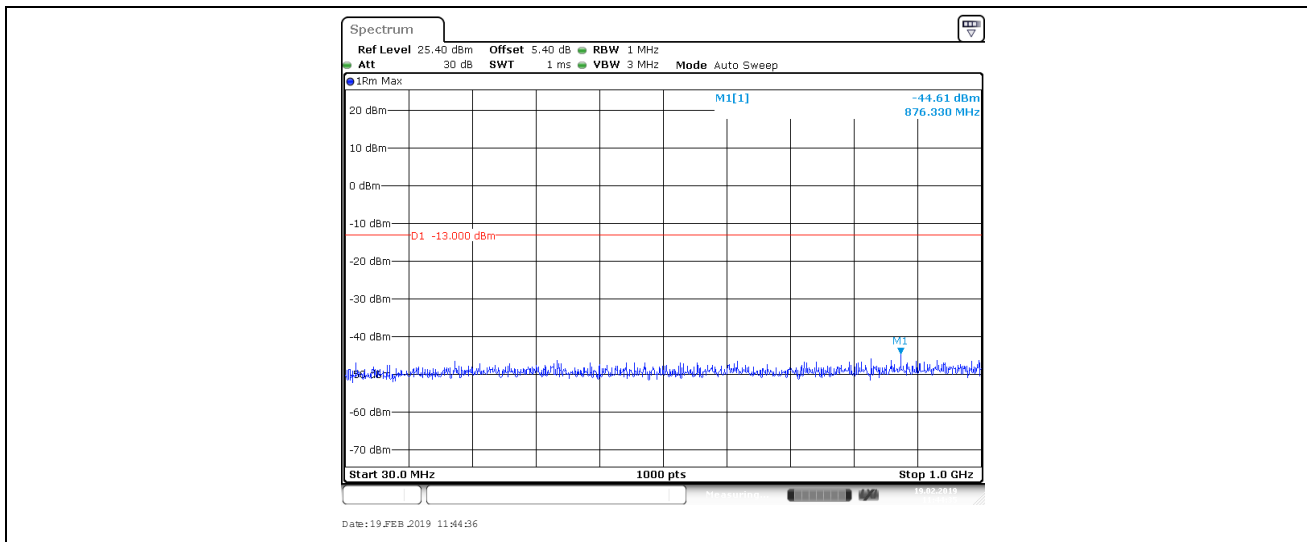
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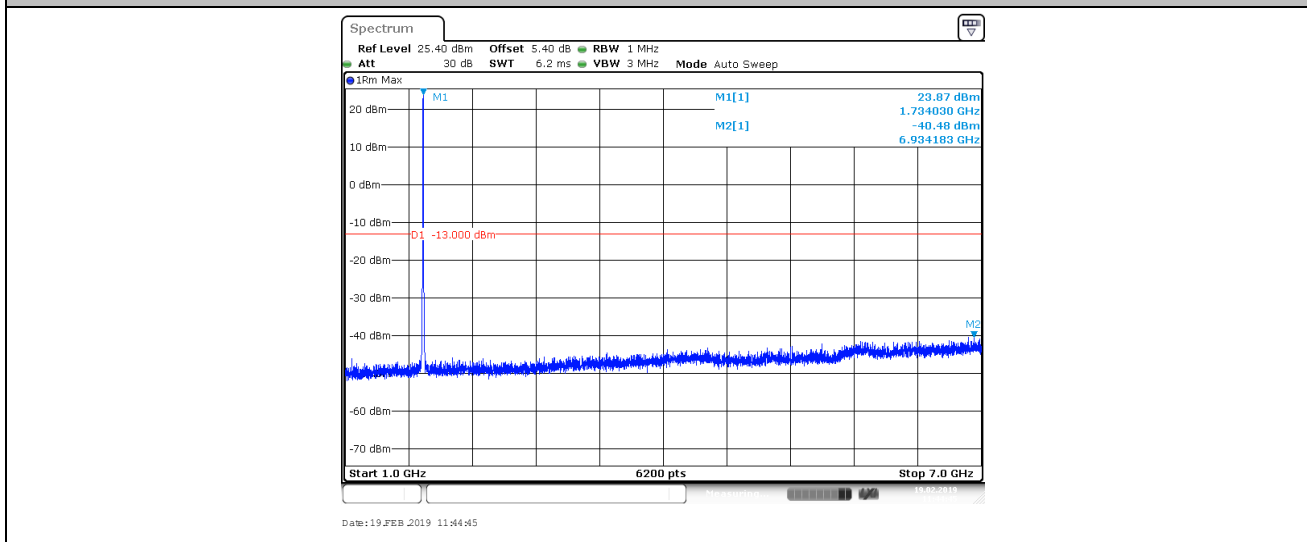
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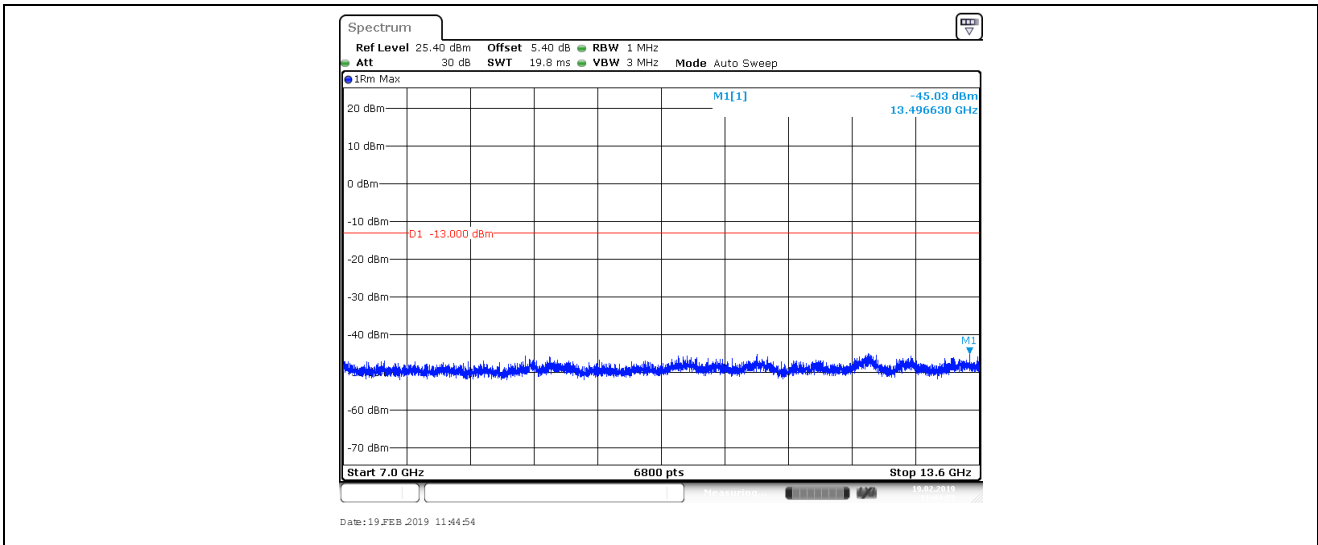


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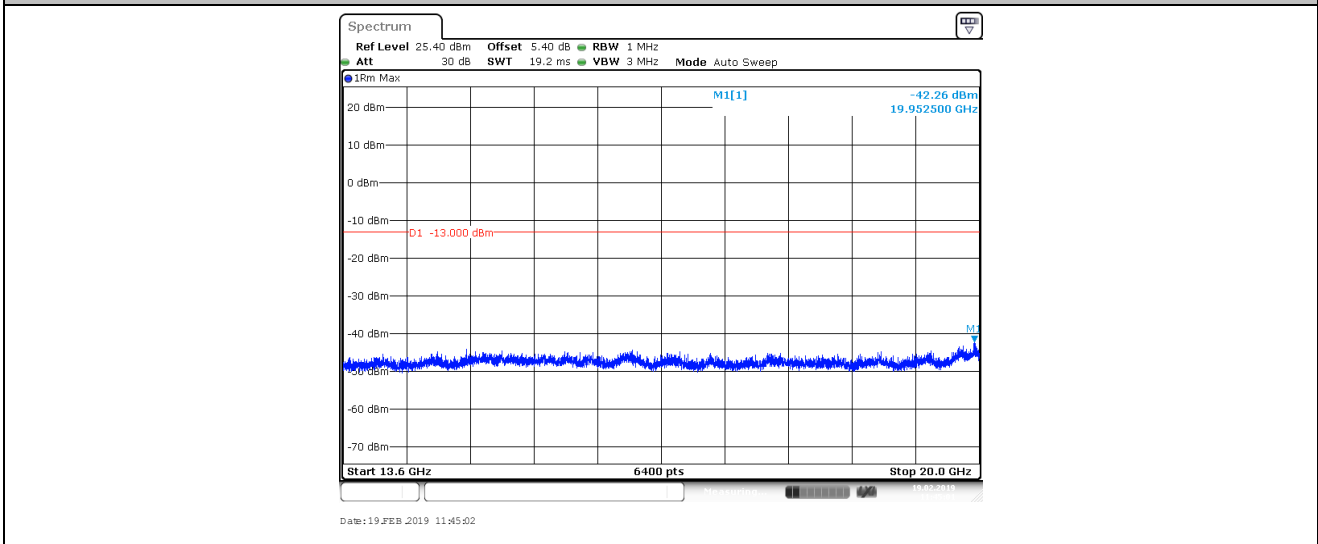


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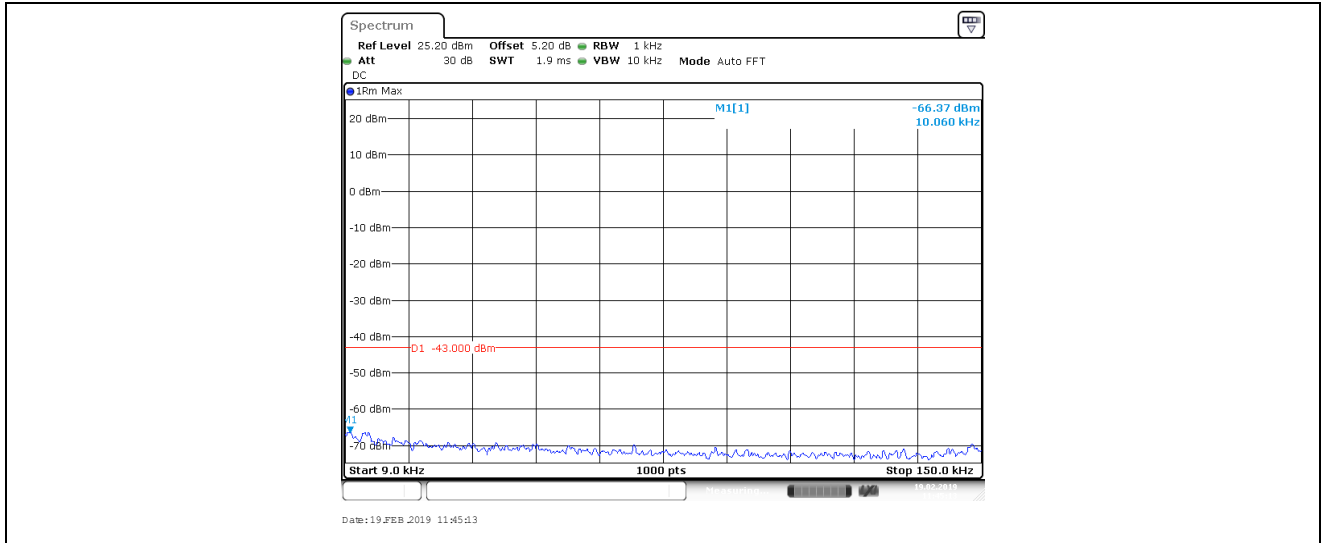


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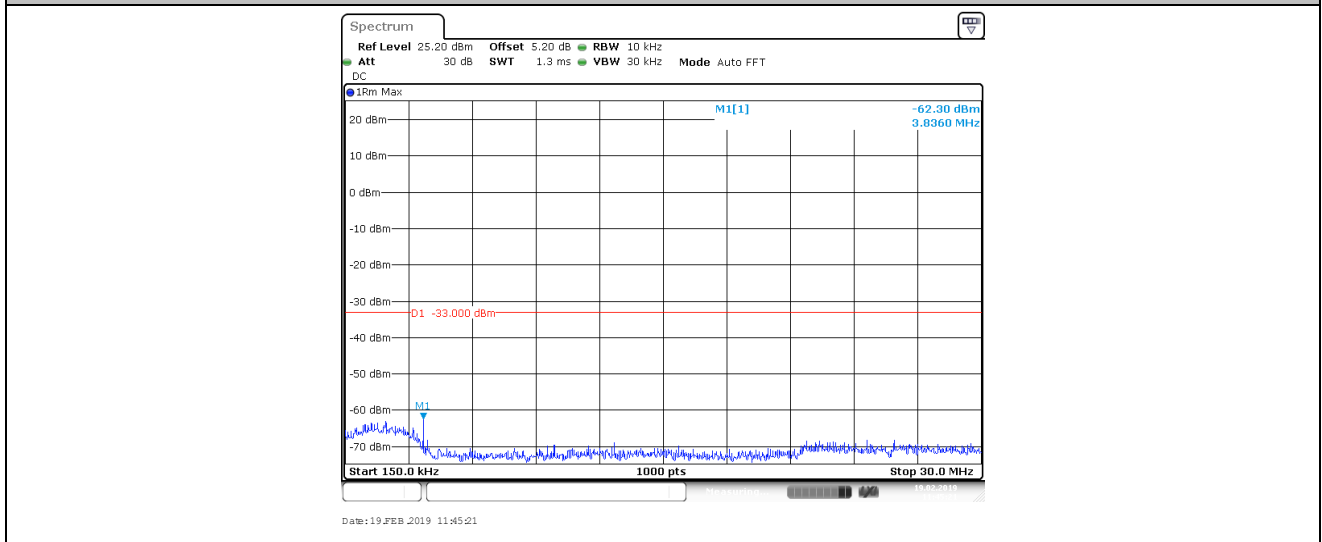


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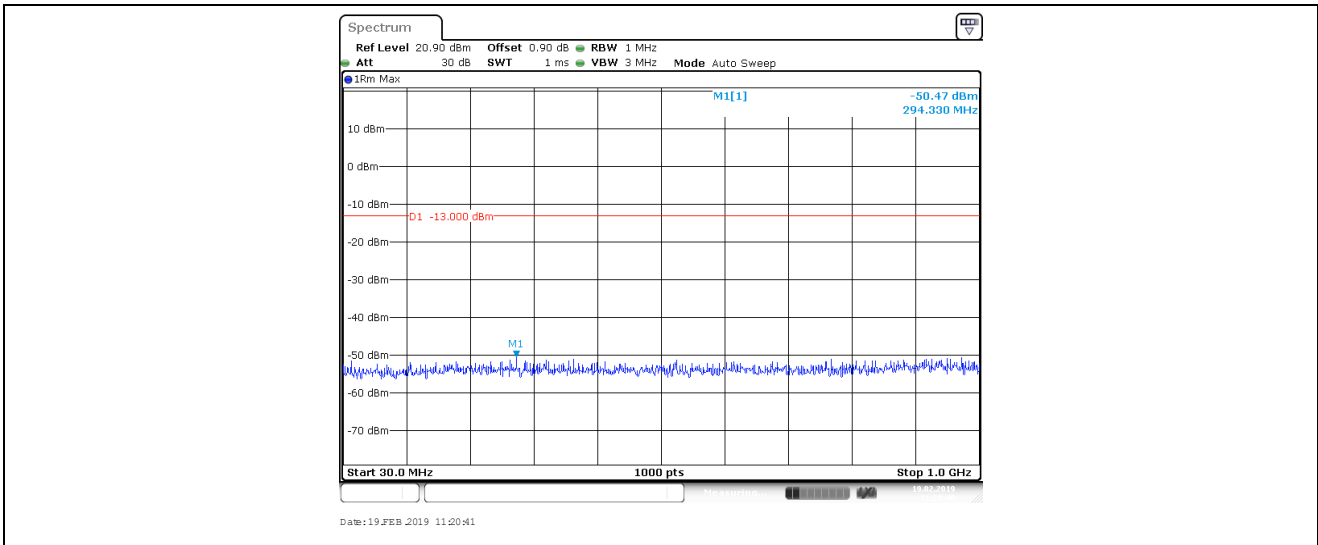
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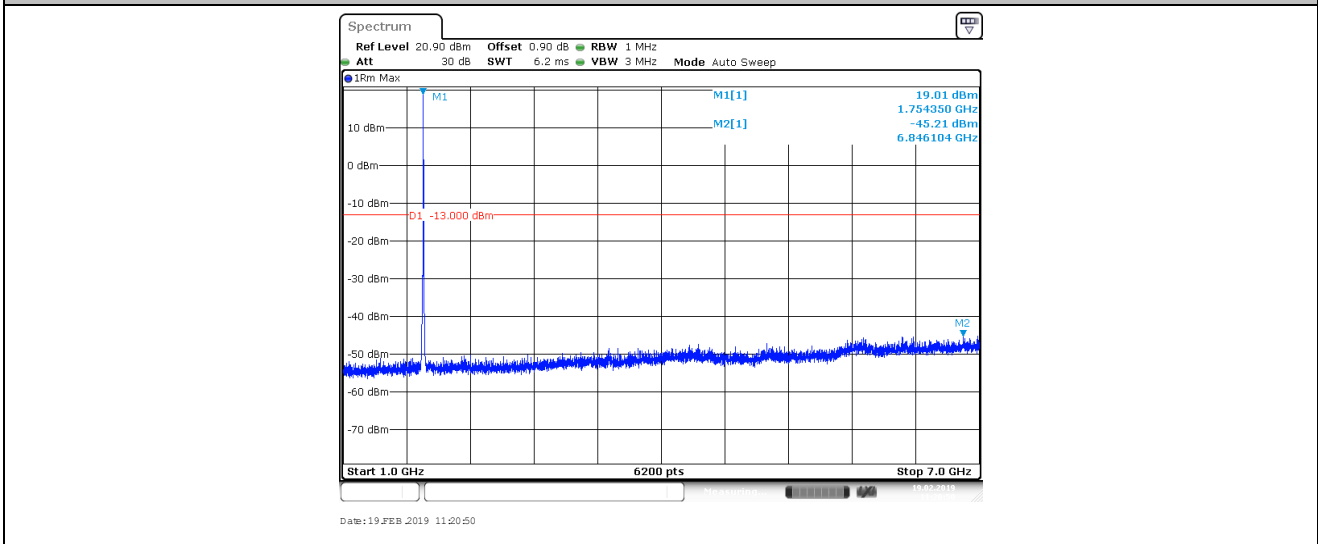
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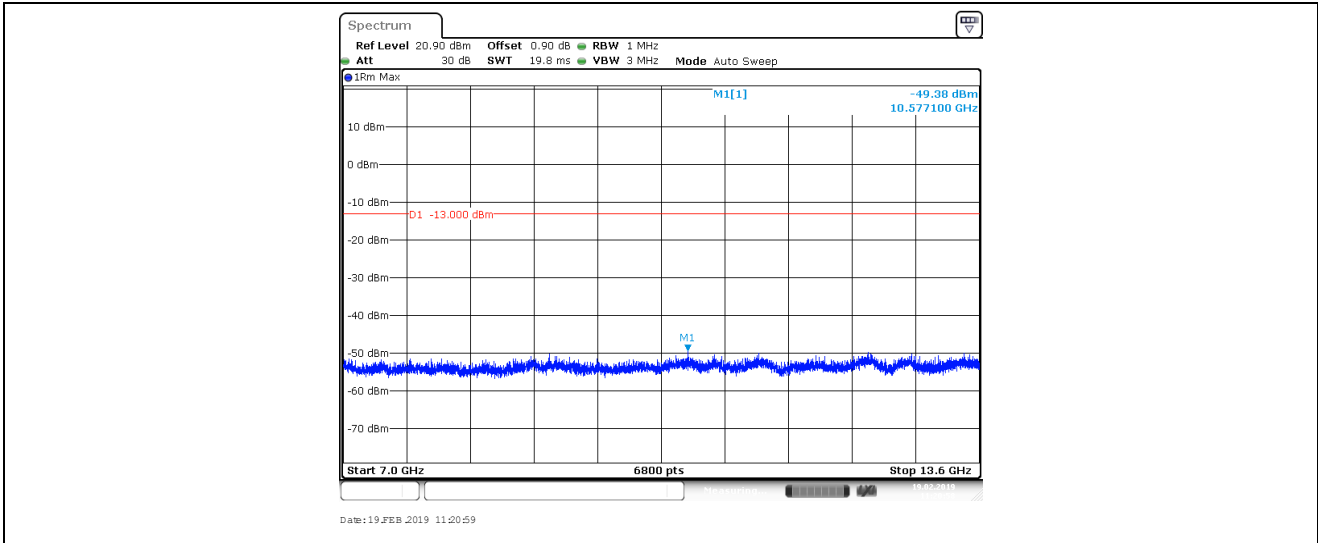
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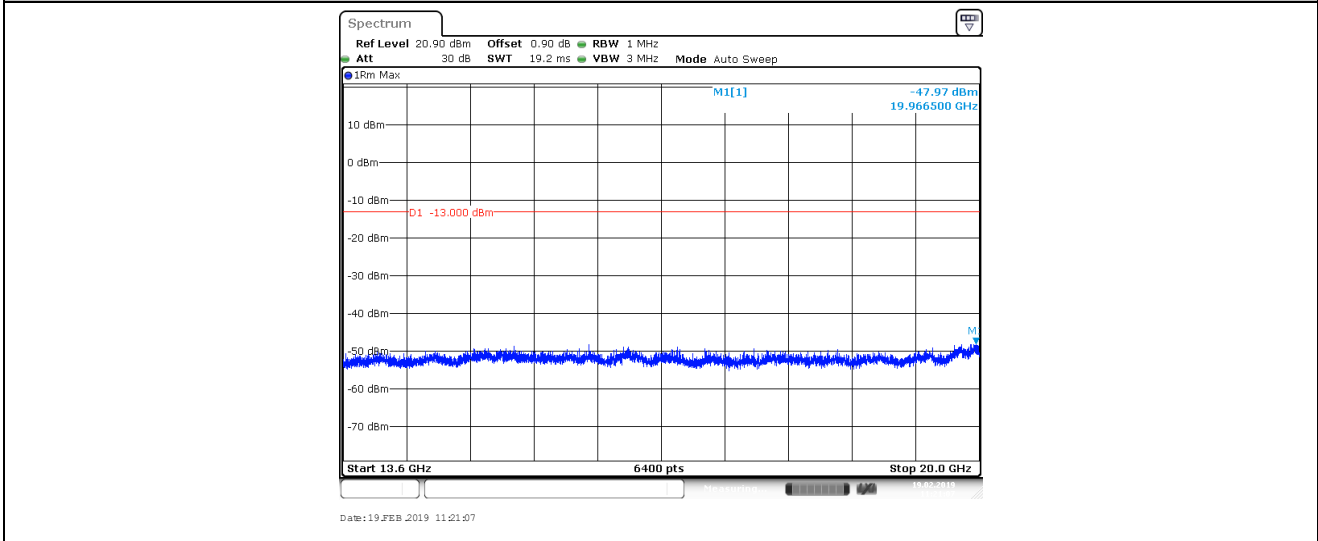
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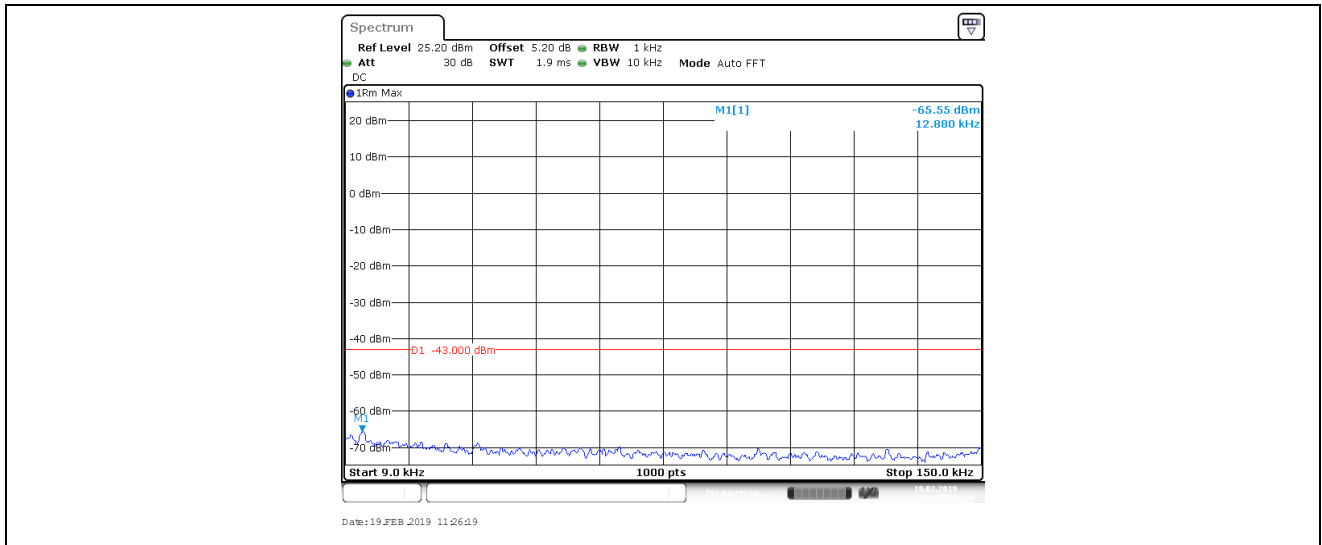
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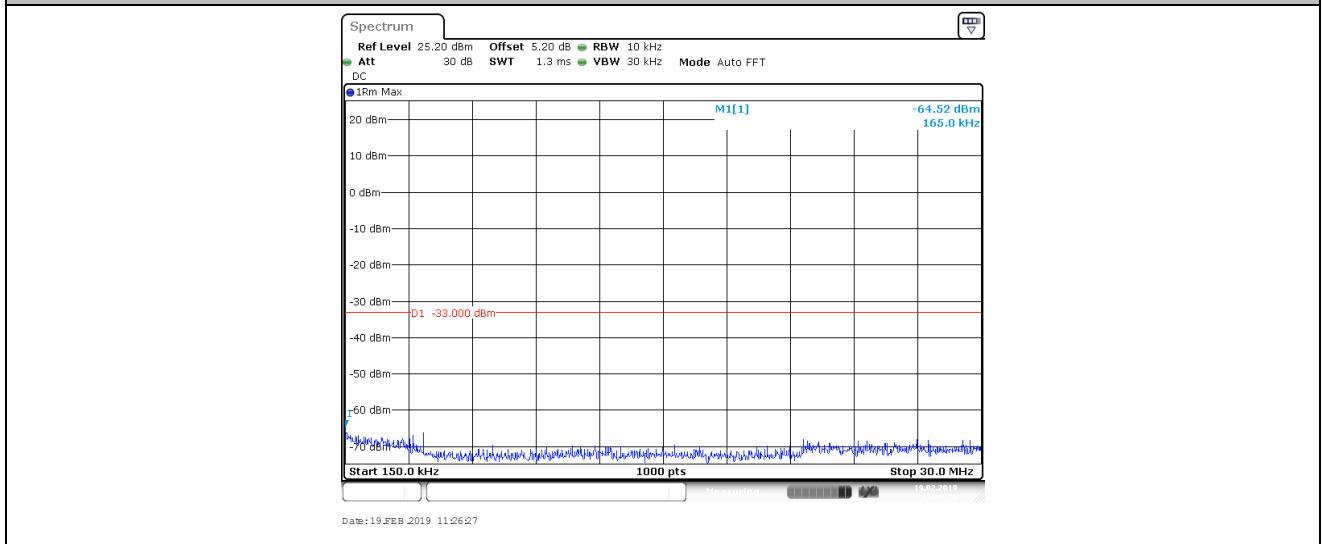
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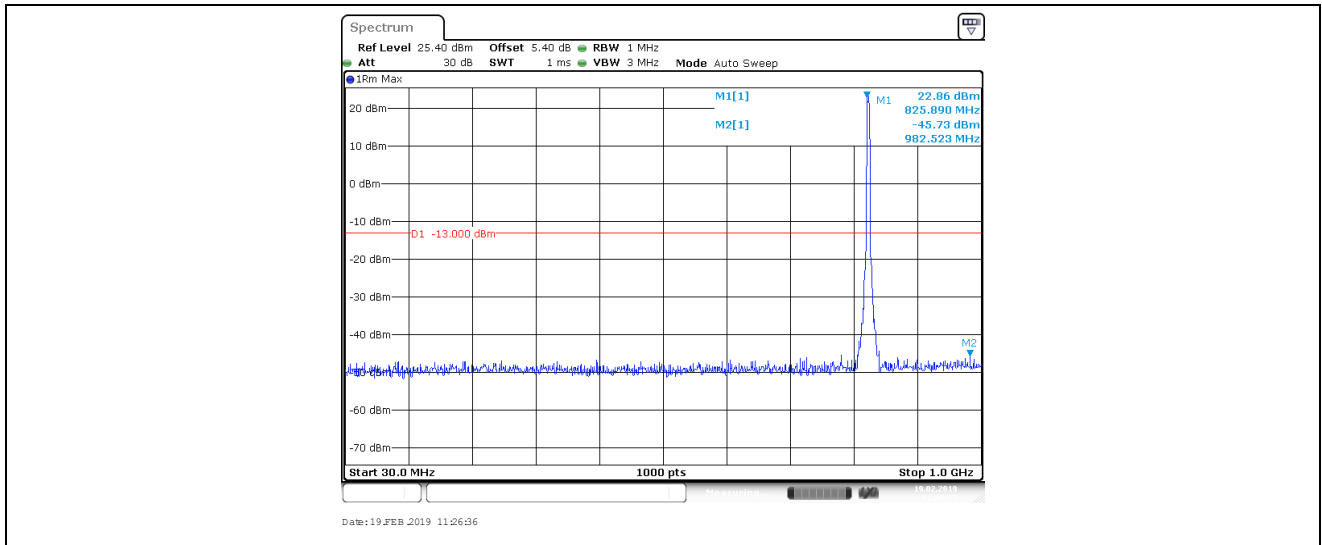


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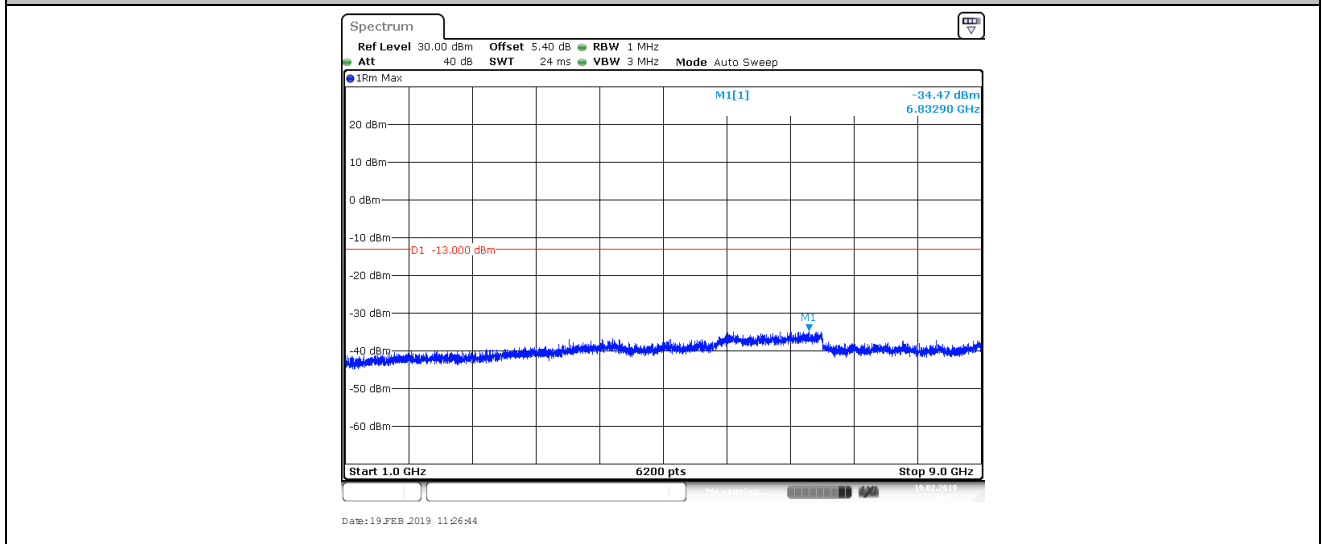


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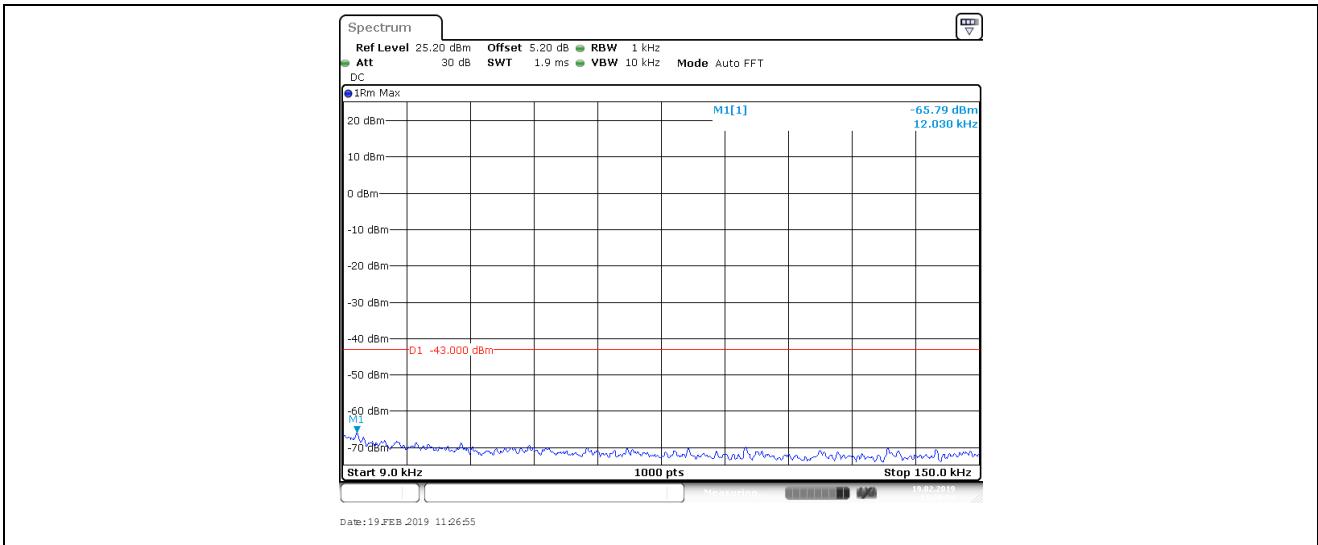
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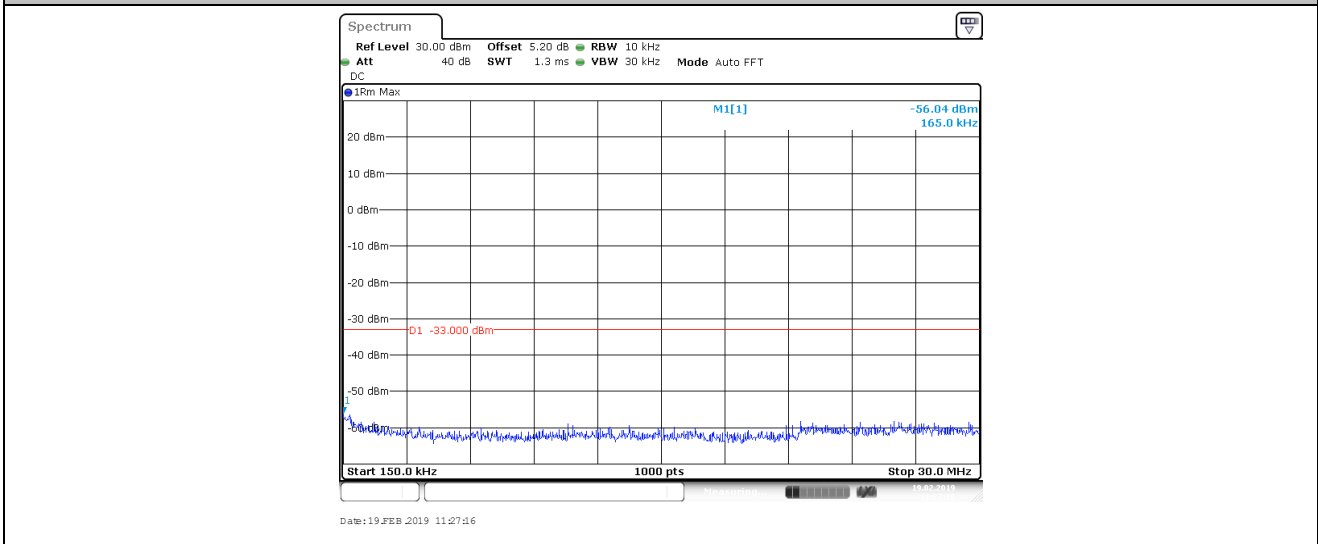
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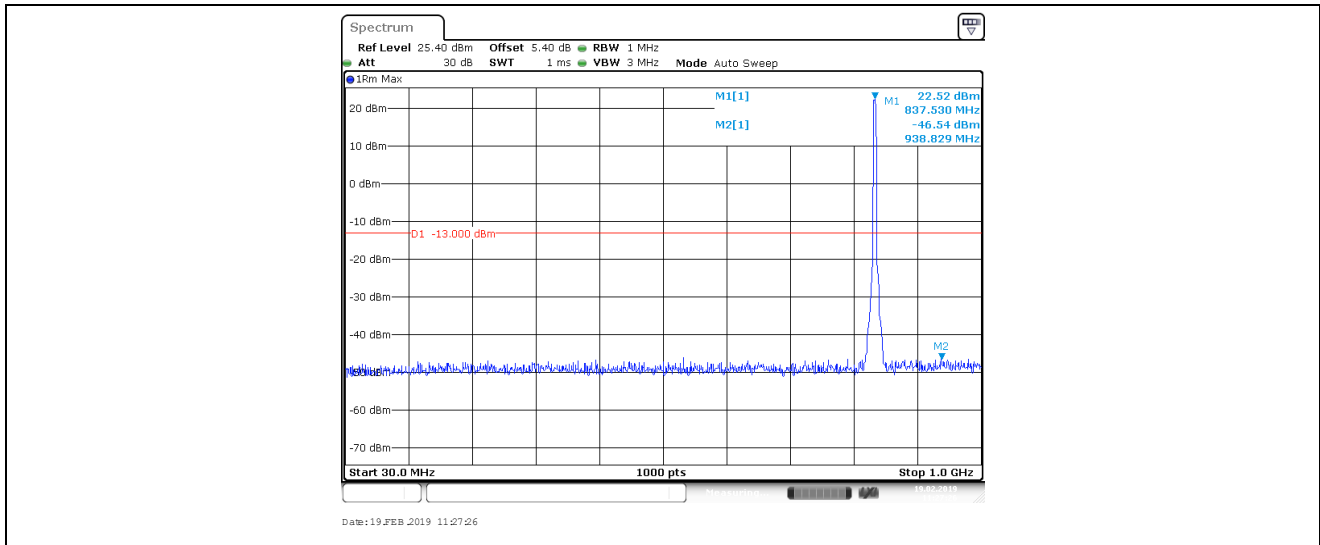
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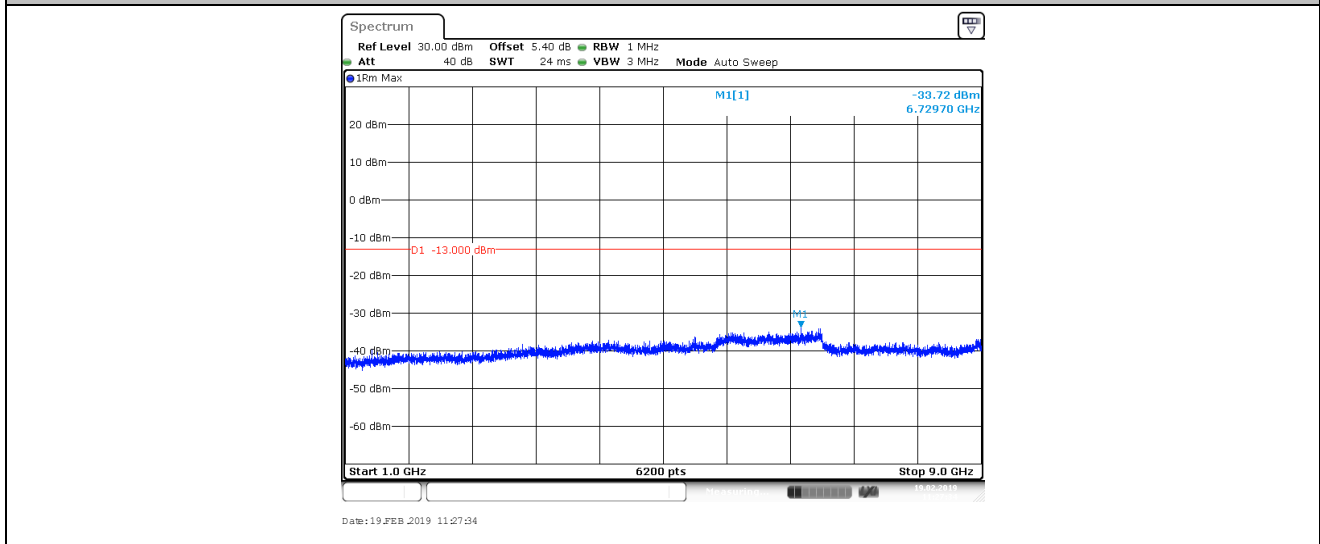
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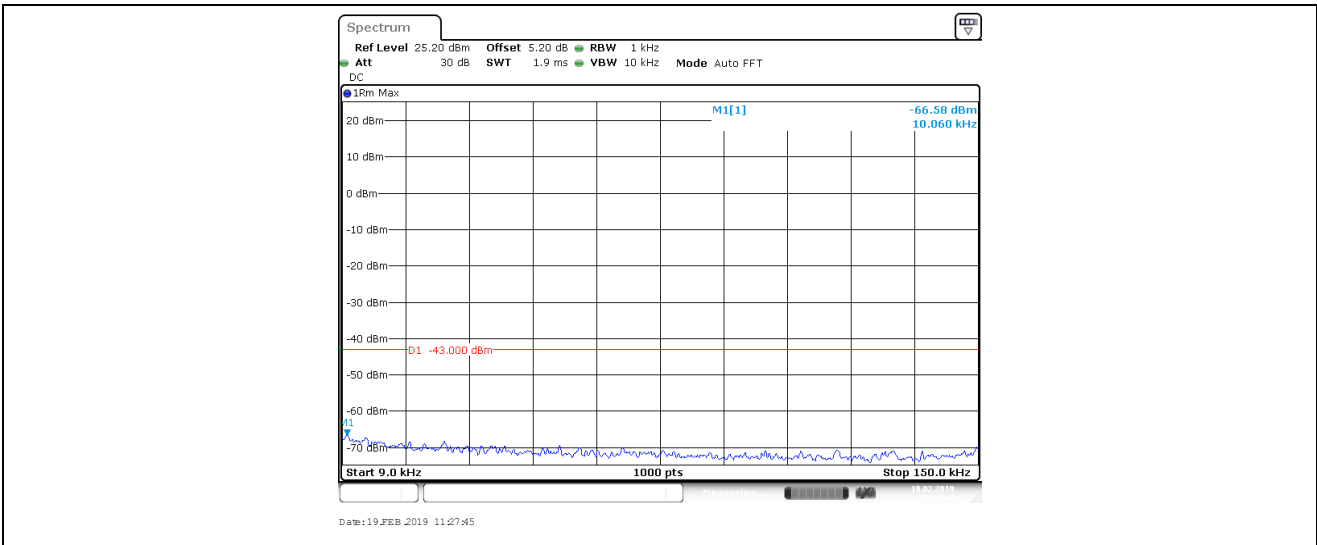


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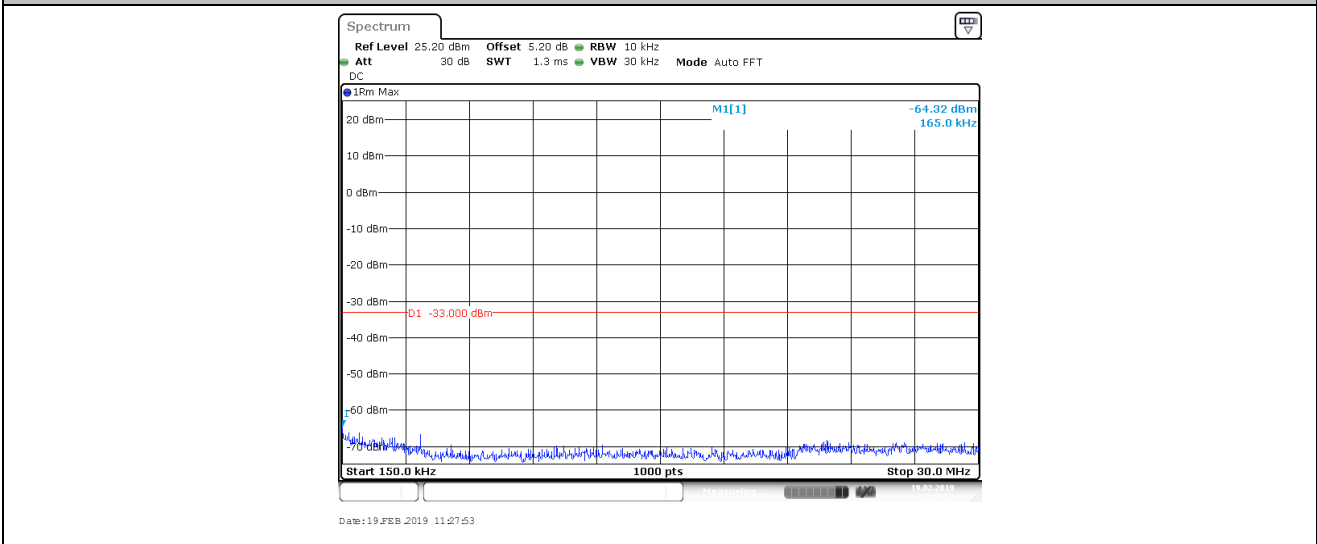


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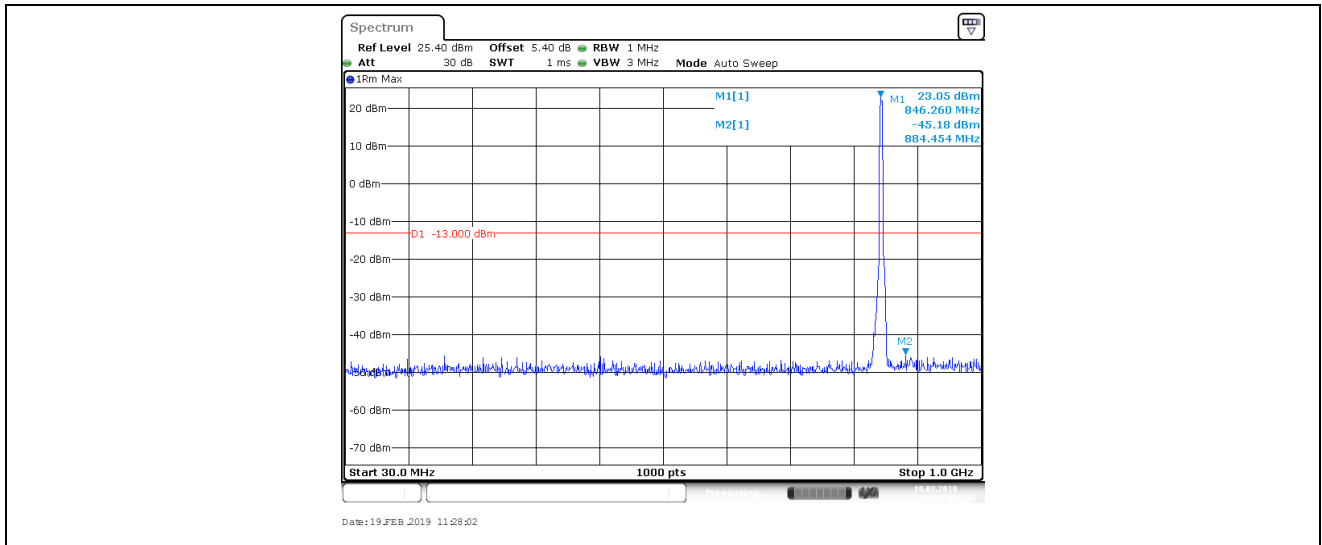
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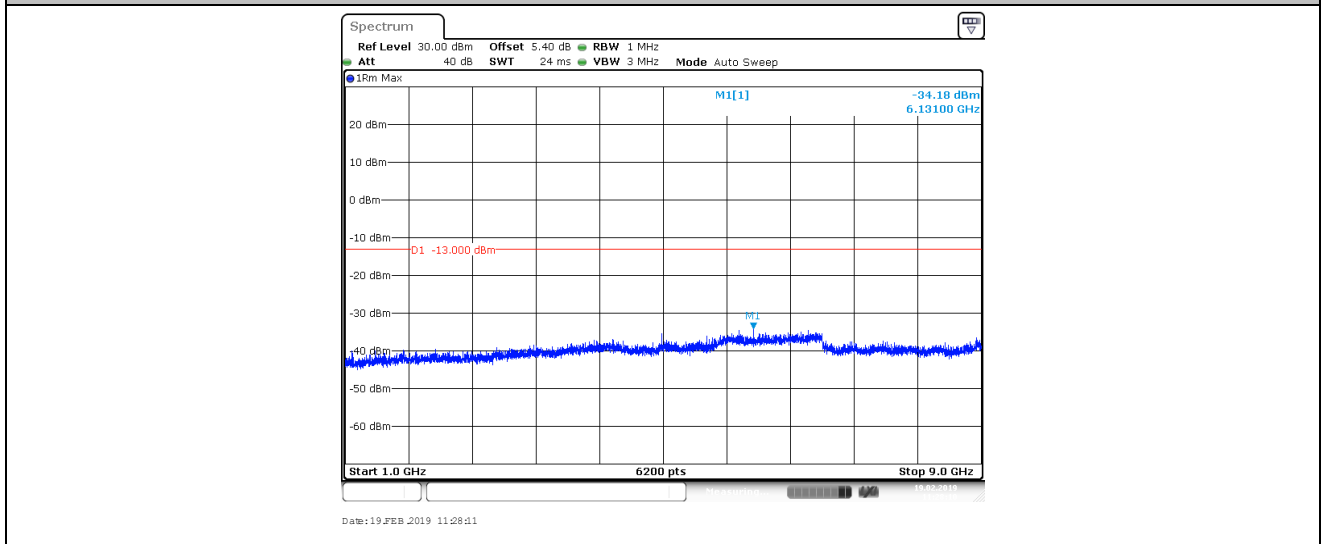
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## 7. Field Strength of Spurious Radiation

### Part I - Test Plots

#### 7.1. For WCDMA

##### 7.1.1. Test Band = WCDMA BAND II

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

##### 7.1.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.5176	-64.96	-13	51.96	Vertical
122.9591	-65.06	-13	52.06	Vertical
724.7420	-61.35	-13	48.35	Vertical
3829.0174	-48.95	-13	35.95	Vertical
5736.1684	-45.13	-13	32.13	Vertical
17988.7056	-29.39	-13	16.39	Vertical
50.1704	-63.80	-13	50.80	Horizontal
130.9651	-63.49	-13	50.49	Horizontal
513.8168	-66.60	-13	53.60	Horizontal
2708.1514	-37.24	-13	24.24	Horizontal
5722.4428	-46.98	-13	33.98	Horizontal
17977.5848	-36.16	-13	23.16	Horizontal

##### 7.1.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
80.3733	-65.65	-13	52.65	Vertical
113.2296	-64.37	-13	51.37	Vertical
738.3611	-63.04	-13	50.04	Vertical
3822.0708	-49.61	-13	36.61	Vertical
5720.3555	-44.26	-13	31.26	Vertical
17984.2321	-31.23	-13	18.23	Vertical
42.7669	-64.88	-13	51.88	Horizontal
131.6584	-63.69	-13	50.69	Horizontal
510.1272	-66.29	-13	53.29	Horizontal
2688.6775	-37.11	-13	24.11	Horizontal



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5722.4984	-46.93	-13	33.93	Horizontal
17997.0978	-34.76	-13	21.76	Horizontal

**7.1.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
85.9626	-66.57	-13	53.57	Vertical
122.3546	-64.67	-13	51.67	Vertical
743.2116	-62.95	-13	49.95	Vertical
3812.0167	-48.11	-13	35.11	Vertical
7715.5393	-43.95	-13	30.95	Vertical
17983.4574	-30.32	-13	17.32	Vertical
55.4484	-64.10	-13	51.10	Horizontal
164.9857	-62.46	-13	49.46	Horizontal
479.7987	-65.91	-13	52.91	Horizontal
2702.5062	-36.36	-13	23.36	Horizontal
7709.8630	-46.93	-13	33.93	Horizontal
17977.6073	-34.65	-13	21.65	Horizontal

**7.1.2. Test Band = WCDMA BAND IV**

**7.1.2.1. Test Mode = UMTS/TM1**

**7.1.2.1.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
89.1497	-65.35	-13	52.35	Vertical
104.0398	-65.15	-13	52.15	Vertical
728.8448	-61.48	-13	48.48	Vertical
3833.5192	-48.50	-13	35.50	Vertical
5720.3561	-43.35	-13	30.35	Vertical
17810.7626	-30.76	-13	17.76	Vertical
22.8088	-65.10	-13	52.10	Horizontal
163.9941	-62.44	-13	49.44	Horizontal
518.9561	-67.28	-13	54.28	Horizontal
2716.9525	-35.54	-13	22.54	Horizontal
5720.8085	-47.40	-13	34.40	Horizontal
17881.8920	-35.08	-13	22.08	Horizontal

**7.1.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
53.6869	-65.00	-13	52.00	Vertical
133.8481	-64.74	-13	51.74	Vertical



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737.2769	-62.83	-13	49.83	Vertical
3818.9962	-49.23	-13	36.23	Vertical
9749.0086	-44.72	-13	31.72	Vertical
17796.4193	-29.37	-13	16.37	Vertical
36.8801	-64.01	-13	51.01	Horizontal
158.9280	-63.55	-13	50.55	Horizontal
509.3778	-66.39	-13	53.39	Horizontal
2702.0765	-35.94	-13	22.94	Horizontal
5724.4501	-47.06	-13	34.06	Horizontal
17804.9288	-36.33	-13	23.33	Horizontal

**7.1.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
81.3687	-66.18	-13	53.18	Vertical
108.7703	-65.73	-13	52.73	Vertical
738.5730	-62.18	-13	49.18	Vertical
3822.1412	-47.91	-13	34.91	Vertical
5740.7139	-44.68	-13	31.68	Vertical
17907.2573	-29.93	-13	16.93	Vertical
36.4877	-64.02	-13	51.02	Horizontal
163.0917	-63.80	-13	50.80	Horizontal
519.7867	-67.24	-13	54.24	Horizontal
2700.3974	-35.82	-13	22.82	Horizontal
5735.1123	-47.88	-13	34.88	Horizontal
17899.6466	-34.85	-13	21.85	Horizontal

**7.1.3. Test Band = WCDMA BAND V**

**7.1.3.1. Test Mode = UMTS/TM1**

**7.1.3.1.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.6412	-64.93	-13	51.93	Vertical
137.3864	-65.38	-13	52.38	Vertical
738.6202	-61.84	-13	48.84	Vertical
3818.4401	-49.52	-13	36.52	Vertical
5721.0263	-44.95	-13	31.95	Vertical
17988.6311	-29.52	-13	16.52	Vertical
42.8706	-64.42	-13	51.42	Horizontal
143.3862	-64.32	-13	51.32	Horizontal
508.4885	-65.67	-13	52.67	Horizontal



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2689.0702	-35.66	-13	22.66	Horizontal
3743.4259	-47.12	-13	34.12	Horizontal
17997.3734	-34.75	-13	21.75	Horizontal

**7.1.3.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
75.8878	-65.66	-13	52.66	Vertical
107.3843	-65.50	-13	52.50	Vertical
745.8770	-62.43	-13	49.43	Vertical
1692.6108	-49.00	-13	36.00	Vertical
3729.0864	-43.71	-13	30.71	Vertical
17990.1071	-30.37	-13	17.37	Vertical
27.0202	-64.25	-13	51.25	Horizontal
132.2183	-63.59	-13	50.59	Horizontal
507.2695	-67.32	-13	54.32	Horizontal
1698.0561	-35.71	-13	22.71	Horizontal
3737.9562	-46.44	-13	33.44	Horizontal
17978.9985	-35.92	-13	22.92	Horizontal

**7.1.3.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
54.7941	-66.01	-13	53.01	Vertical
136.3227	-65.80	-13	52.80	Vertical
748.8624	-61.44	-13	48.44	Vertical
1709.4776	-48.71	-13	35.71	Vertical
2614.3668	-44.99	-13	31.99	Vertical
17991.0216	-31.28	-13	18.28	Vertical
52.2647	-64.39	-13	51.39	Horizontal
148.7879	-64.15	-13	51.15	Horizontal
491.6743	-65.66	-13	52.66	Horizontal
1778.2688	-35.42	-13	22.42	Horizontal
2643.8097	-48.15	-13	35.15	Horizontal
17988.8585	-35.49	-13	22.49	Horizontal

Remark:

- 1) The disturbance above 12.75GHz and 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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- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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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	-1.12	-0.000602	±2.5	PASS
Band II	9262	VN	TN	-0.51	-0.000278	±2.5	PASS
Band II	9262	VH	TN	0.69	0.000375	±2.5	PASS
Band II	9400	VL	TN	1.19	0.000632	±2.5	PASS
Band II	9400	VN	TN	1.34	0.000715	±2.5	PASS
Band II	9400	VH	TN	0.04	0.000019	±2.5	PASS
Band II	9538	VL	TN	-3.31	-0.001736	±2.5	PASS
Band II	9538	VN	TN	-4.88	-0.002557	±2.5	PASS
Band II	9538	VH	TN	-4.58	-0.002400	±2.5	PASS
Band IV	1312	VL	TN	6.22	0.003630	±2.5	PASS
Band IV	1312	VN	TN	6.68	0.003901	±2.5	PASS
Band IV	1312	VH	TN	6.52	0.003809	±2.5	PASS
Band IV	1413	VL	TN	4.94	0.002848	±2.5	PASS
Band IV	1413	VN	TN	6.04	0.003488	±2.5	PASS
Band IV	1413	VH	TN	5.57	0.003216	±2.5	PASS
Band IV	1513	VL	TN	-6.76	-0.003857	±2.5	PASS
Band IV	1513	VN	TN	-8.05	-0.004595	±2.5	PASS
Band IV	1513	VH	TN	-7.34	-0.004187	±2.5	PASS
Band V	4132	VL	TN	0.62	0.000753	±2.5	PASS
Band V	4132	VN	TN	0.44	0.000528	±2.5	PASS
Band V	4132	VH	TN	0.26	0.000312	±2.5	PASS
Band V	4182	VL	TN	-1.31	-0.001565	±2.5	PASS
Band V	4182	VN	TN	-0.44	-0.000522	±2.5	PASS
Band V	4182	VH	TN	-0.62	-0.000735	±2.5	PASS
Band V	4233	VL	TN	-2.32	-0.002746	±2.5	PASS
Band V	4233	VN	TN	-1.65	-0.001943	±2.5	PASS
Band V	4233	VH	TN	-1.92	-0.002264	±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	-0.24	-0.000127	±2.5	PASS
Band II	9262	VN	-20	0.53	0.000286	±2.5	PASS
Band II	9262	VN	-10	0.34	0.000181	±2.5	PASS
Band II	9262	VN	0	0.43	0.000232	±2.5	PASS
Band II	9262	VN	10	0.09	0.000046	±2.5	PASS
Band II	9262	VN	20	0.10	0.000054	±2.5	PASS
Band II	9262	VN	30	0.16	0.000089	±2.5	PASS
Band II	9262	VN	40	0.79	0.000429	±2.5	PASS
Band II	9262	VN	50	0.32	0.000174	±2.5	PASS
Band II	9400	VN	-30	1.36	0.000723	±2.5	PASS
Band II	9400	VN	-20	-0.39	-0.000209	±2.5	PASS
Band II	9400	VN	-10	0.47	0.000251	±2.5	PASS
Band II	9400	VN	0	1.36	0.000723	±2.5	PASS
Band II	9400	VN	10	0.54	0.000289	±2.5	PASS
Band II	9400	VN	20	0.67	0.000354	±2.5	PASS
Band II	9400	VN	30	-0.46	-0.000243	±2.5	PASS
Band II	9400	VN	40	0.98	0.000521	±2.5	PASS
Band II	9400	VN	50	-0.05	-0.000027	±2.5	PASS
Band II	9538	VN	-30	-5.06	-0.002655	±2.5	PASS
Band II	9538	VN	-20	-4.25	-0.002227	±2.5	PASS
Band II	9538	VN	-10	-5.29	-0.002771	±2.5	PASS
Band II	9538	VN	0	-3.96	-0.002073	±2.5	PASS
Band II	9538	VN	10	-5.31	-0.002786	±2.5	PASS
Band II	9538	VN	20	-5.19	-0.002722	±2.5	PASS
Band II	9538	VN	30	-5.63	-0.002951	±2.5	PASS
Band II	9538	VN	40	-5.16	-0.002707	±2.5	PASS
Band II	9538	VN	50	-4.03	-0.002115	±2.5	PASS
Band IV	1312	VN	-30	5.82	0.003400	±2.5	PASS
Band IV	1312	VN	-20	6.24	0.003646	±2.5	PASS
Band IV	1312	VN	-10	6.31	0.003684	±2.5	PASS
Band IV	1312	VN	0	5.88	0.003433	±2.5	PASS
Band IV	1312	VN	10	6.47	0.003776	±2.5	PASS
Band IV	1312	VN	20	6.59	0.003851	±2.5	PASS



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Band IV	1312	VN	30	5.72	0.003342	±2.5	PASS
Band IV	1312	VN	40	6.34	0.003701	±2.5	PASS
Band IV	1312	VN	50	6.18	0.003609	±2.5	PASS
Band IV	1413	VN	-30	6.72	0.003876	±2.5	PASS
Band IV	1413	VN	-20	6.33	0.003653	±2.5	PASS
Band IV	1413	VN	-10	6.32	0.003645	±2.5	PASS
Band IV	1413	VN	0	6.14	0.003546	±2.5	PASS
Band IV	1413	VN	10	5.99	0.003459	±2.5	PASS
Band IV	1413	VN	20	5.82	0.003360	±2.5	PASS
Band IV	1413	VN	30	6.09	0.003513	±2.5	PASS
Band IV	1413	VN	40	6.65	0.003839	±2.5	PASS
Band IV	1413	VN	50	6.24	0.003600	±2.5	PASS
Band IV	1513	VN	-30	-8.65	-0.004934	±2.5	PASS
Band IV	1513	VN	-20	-8.22	-0.004689	±2.5	PASS
Band IV	1513	VN	-10	-9.05	-0.005163	±2.5	PASS
Band IV	1513	VN	0	-9.68	-0.005526	±2.5	PASS
Band IV	1513	VN	10	-8.48	-0.004840	±2.5	PASS
Band IV	1513	VN	20	-9.11	-0.005195	±2.5	PASS
Band IV	1513	VN	30	-9.87	-0.005632	±2.5	PASS
Band IV	1513	VN	40	-9.57	-0.005461	±2.5	PASS
Band IV	1513	VN	50	-10.80	-0.006162	±2.5	PASS
Band V	4132	VN	-30	1.07	0.001298	±2.5	PASS
Band V	4132	VN	-20	0.54	0.000649	±2.5	PASS
Band V	4132	VN	-10	-0.04	-0.000043	±2.5	PASS
Band V	4132	VN	0	0.44	0.000537	±2.5	PASS
Band V	4132	VN	10	0.49	0.000597	±2.5	PASS
Band V	4132	VN	20	1.35	0.001636	±2.5	PASS
Band V	4132	VN	30	0.62	0.000753	±2.5	PASS
Band V	4132	VN	40	0.29	0.000355	±2.5	PASS
Band V	4132	VN	50	0.56	0.000675	±2.5	PASS
Band V	4182	VN	-30	0.21	0.000248	±2.5	PASS
Band V	4182	VN	-20	-0.60	-0.000718	±2.5	PASS
Band V	4182	VN	-10	-0.13	-0.000154	±2.5	PASS
Band V	4182	VN	0	-0.25	-0.000299	±2.5	PASS
Band V	4182	VN	10	0.01	0.000017	±2.5	PASS
Band V	4182	VN	20	-0.67	-0.000804	±2.5	PASS
Band V	4182	VN	30	-0.45	-0.000539	±2.5	PASS
Band V	4182	VN	40	-0.34	-0.000402	±2.5	PASS



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Band V	4182	VN	50	-0.99	-0.001189	±2.5	PASS
Band V	4233	VN	-30	-1.65	-0.001952	±2.5	PASS
Band V	4233	VN	-20	-1.39	-0.001647	±2.5	PASS
Band V	4233	VN	-10	-0.83	-0.000980	±2.5	PASS
Band V	4233	VN	0	-1.25	-0.001478	±2.5	PASS
Band V	4233	VN	10	-1.40	-0.001656	±2.5	PASS
Band V	4233	VN	20	-1.90	-0.002247	±2.5	PASS
Band V	4233	VN	30	-2.12	-0.002509	±2.5	PASS
Band V	4233	VN	40	-1.53	-0.001808	±2.5	PASS
Band V	4233	VN	50	-1.30	-0.001538	±2.5	PASS

The End



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