

Appendix B

WCDMA Band II & V



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CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER.....	4
1.1. TEST RESULT	4
2. PEAK-TO-AVERAGE RATIO(CCDF).....	5
2.1. TEST RESULT	5
2.2. TEST PLOTS	5
3. MODULATION CHARACTERISTICS.....	9
3.1. TEST BAND = WCDMA BAND II.....	9
3.1.1. TEST MODE = UMTS/TM1	9
3.1.1.1. TEST CHANNEL = MCH.....	9
3.2. TEST BAND = WCDMA BAND V.....	10
3.2.1. TEST MODE = UMTS/TM1	10
3.2.1.1. TEST CHANNEL = MCH.....	10
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	11
4.1. TEST RESULT	11
4.2. TEST PLOTS	11
5. BAND EDGE COMPLIANCE	15
5.1. TEST PLOTS	15
6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....	17
6.1. TEST PLOTS	17
7. FIELD STRENGTH OF SPURIOUS RADIATION.....	32
7.1. TEST BAND = WCDMA BAND II.....	32
7.1.1. TEST MODE =WCDMA/TM1.....	32
7.1.1.1. TEST CHANNEL = LCH.....	32
7.1.1.2. TEST CHANNEL = MCH.....	33
7.1.1.3. TEST CHANNEL = HCH	33
7.2. TEST BAND = WCDMA BAND V.....	34
7.2.1. TEST MODE =WCDMA/TM1.....	34
7.2.1.1. TEST CHANNEL = LCH.....	34



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7.2.1.2. TEST CHANNEL = MCH..... 35

7.2.1.3. TEST CHANNEL = HCH..... 35

8. FREQUENCY STABILITY..... 37

8.1. FREQUENCY VS VOLTAGE..... 37

8.2. FREQUENCY VS TEMPERATURE..... 37



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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	23.54	23.56	33.00	PASS
Band II	9400	23.46	23.48	33.00	PASS
Band II	9538	23.45	23.47	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.28	25.13	38.45	PASS
Band V	4182	24.24	25.09	38.45	PASS
Band V	4233	24.25	25.1	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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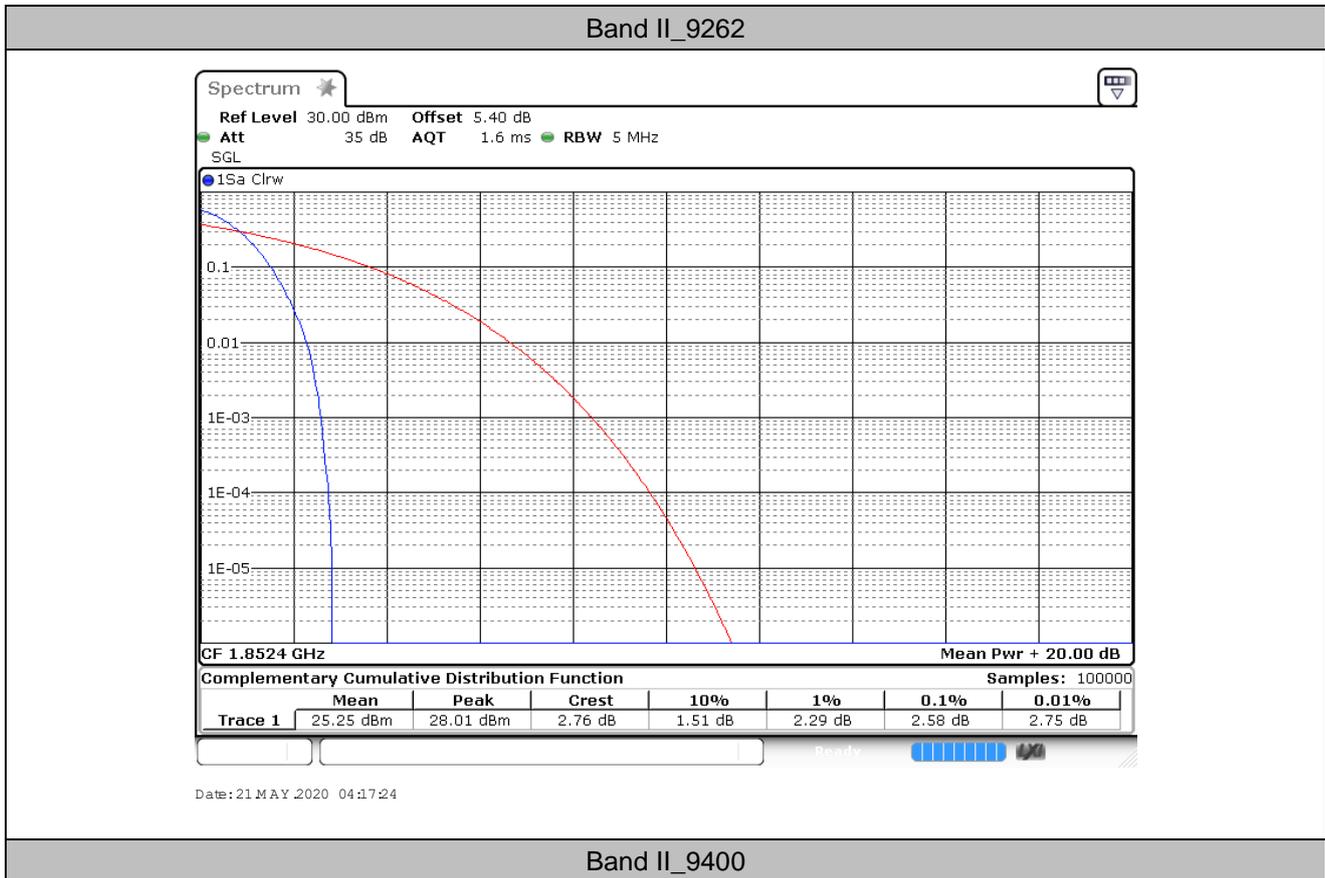
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

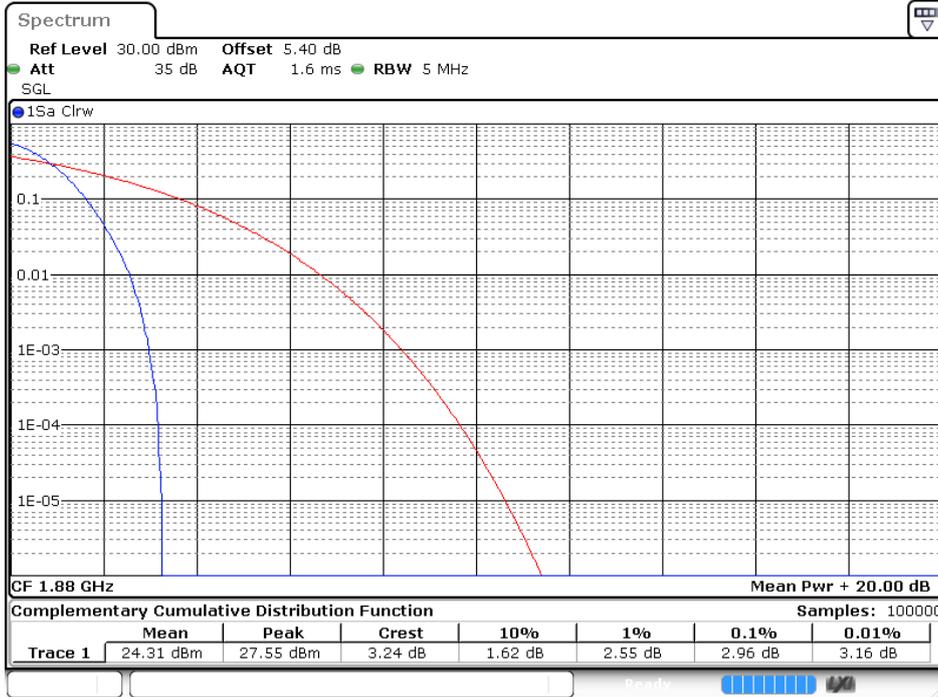
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.58	13	PASS
Band II	9400	2.96	13	PASS
Band II	9538	2.46	13	PASS
Band V	4132	2.52	13	PASS
Band V	4182	3.16	13	PASS
Band V	4233	2.87	13	PASS

2.2. Test Plots



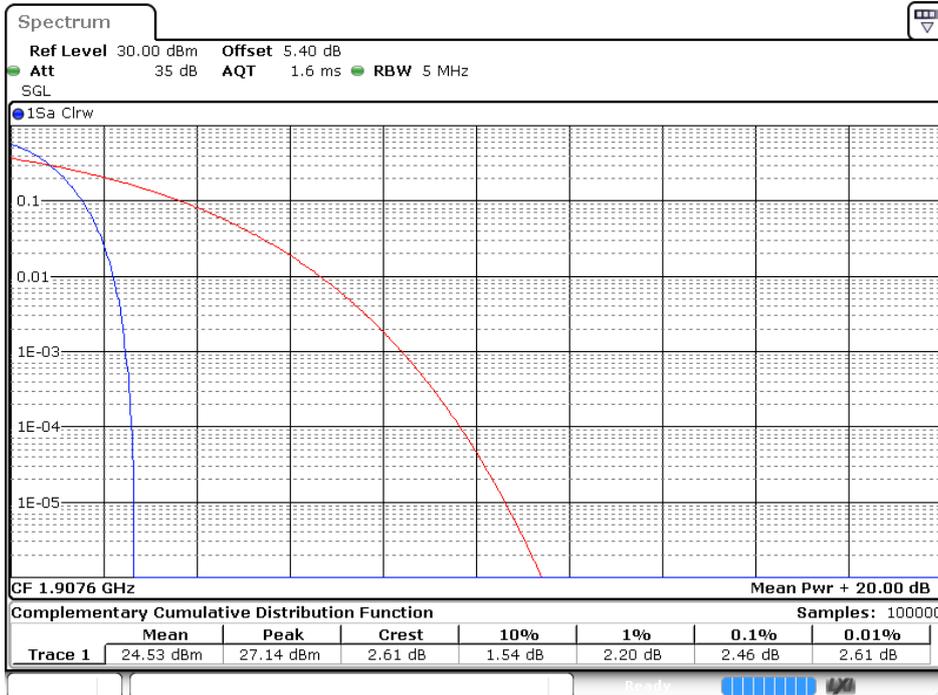
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Band II_9538

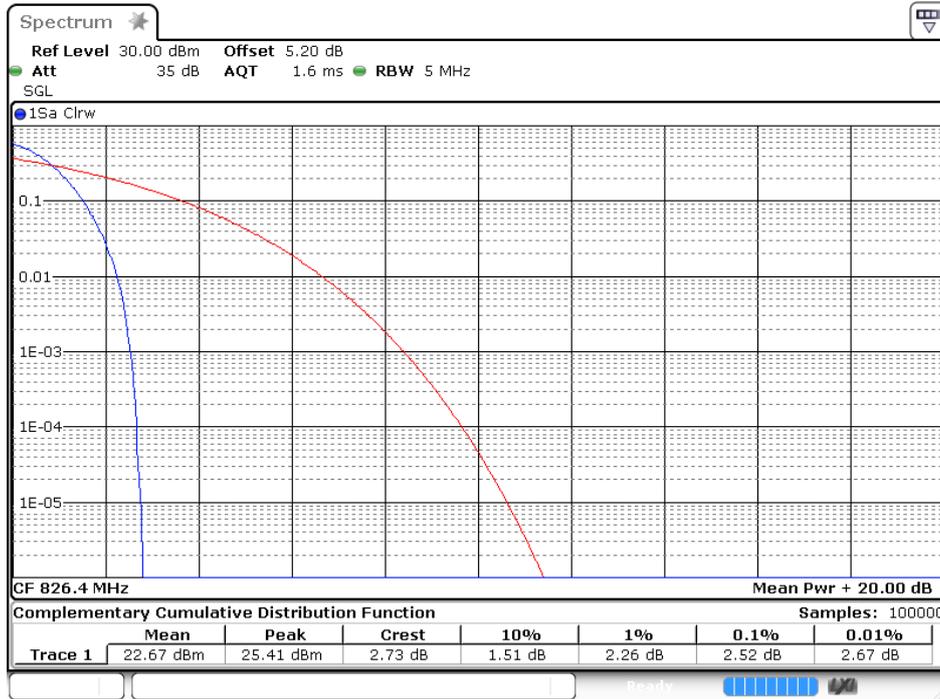


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Band V_4132

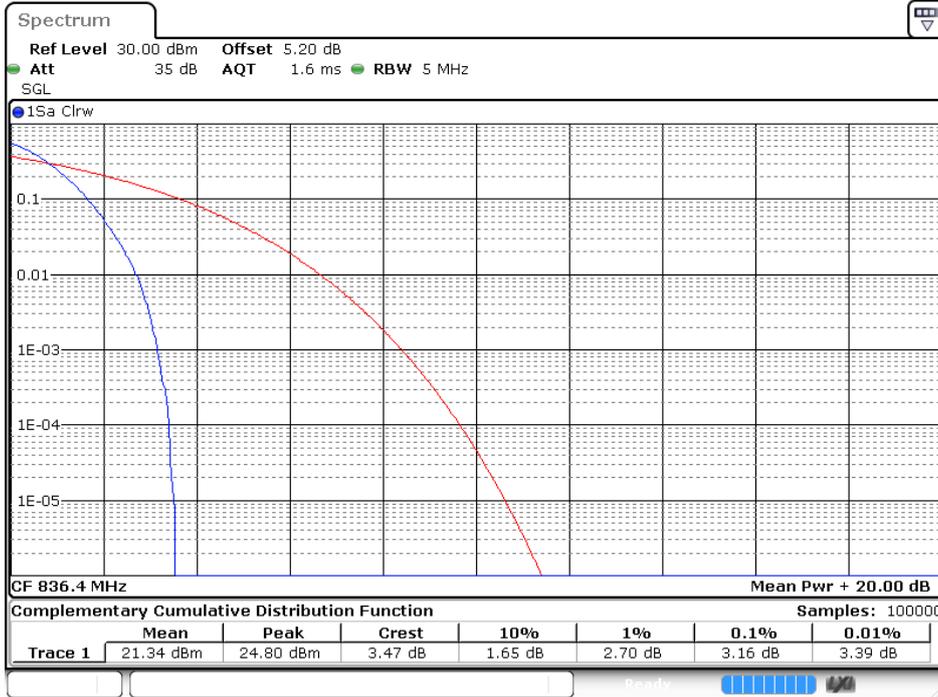


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Band V_4182

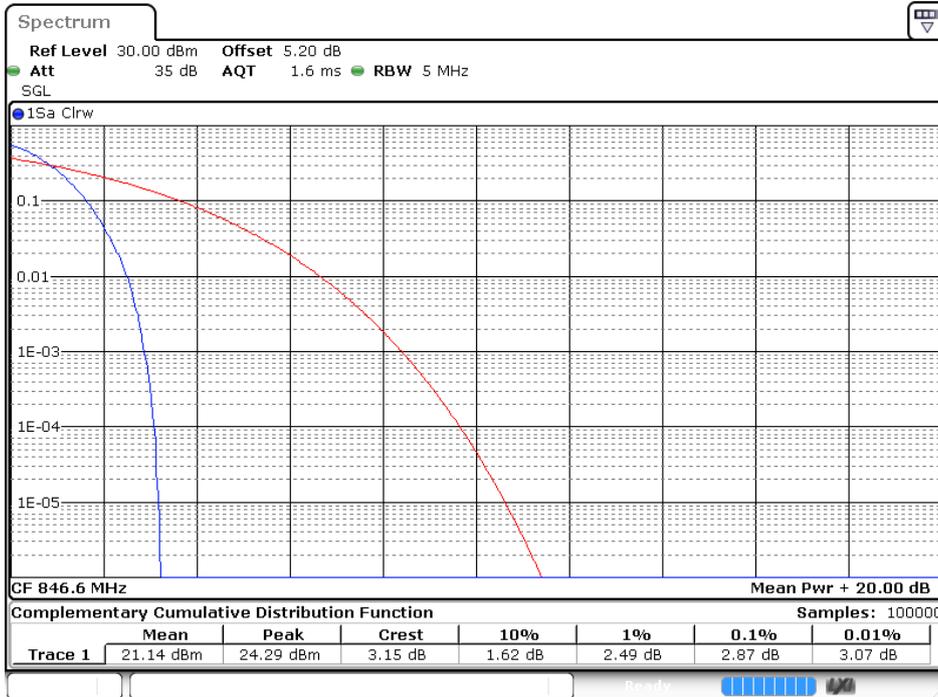


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Band V_4233



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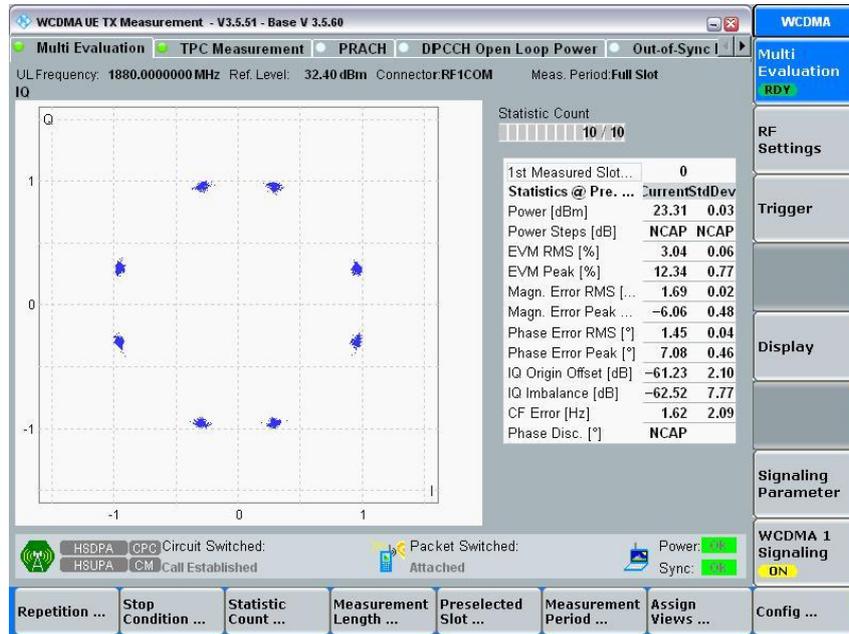
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



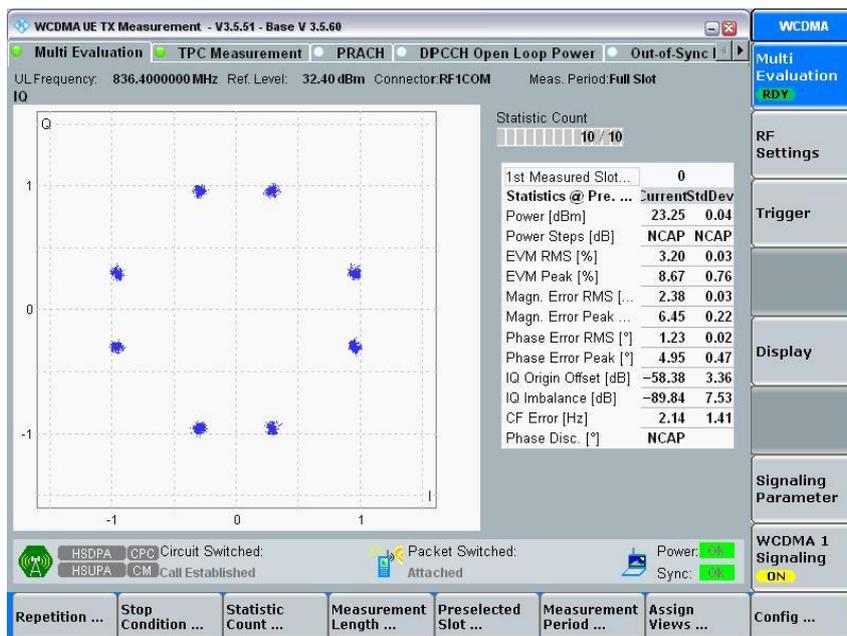
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3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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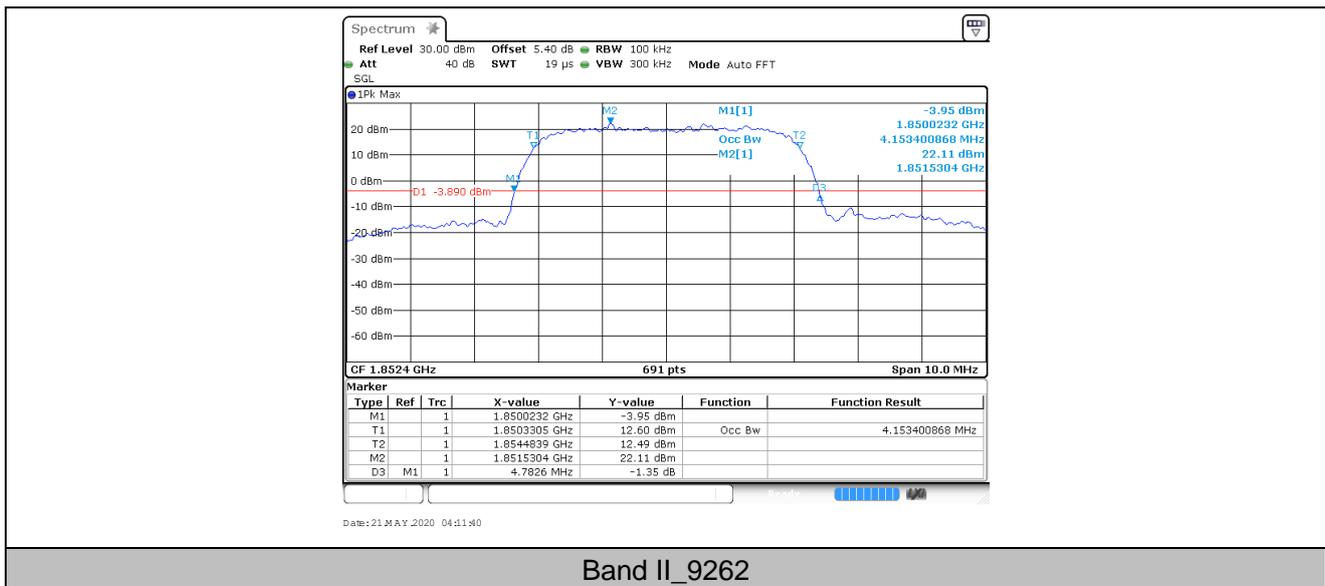
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

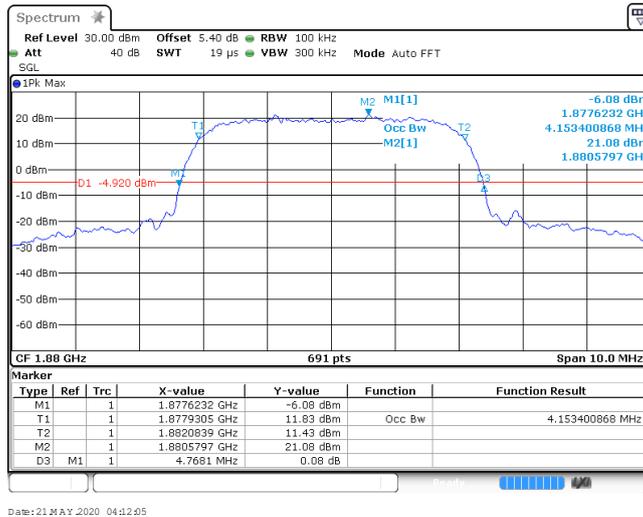
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4153.4	4783	---	PASS
Band II	9400	4153.4	4768	---	PASS
Band II	9538	4153.4	4797	---	PASS
Band V	4132	4138.9	4783	---	PASS
Band V	4182	4124.5	4725	---	PASS
Band V	4233	4138.9	4739	---	PASS

4.2. Test Plots



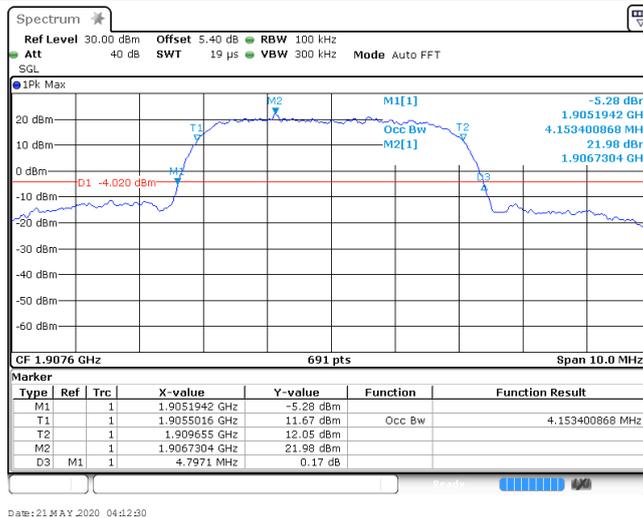
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Band II_9400

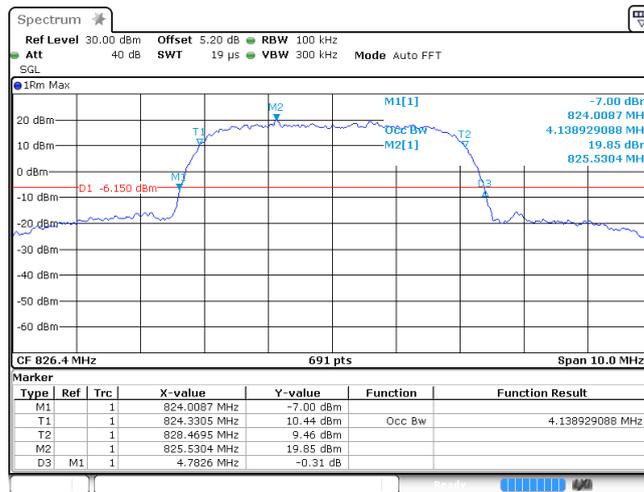


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Band II_9538

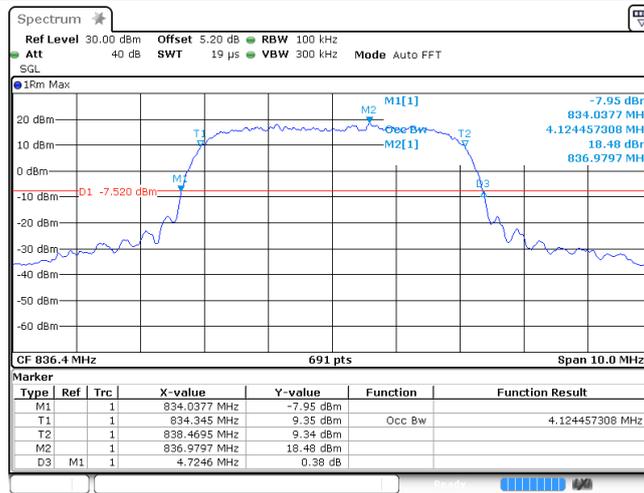


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Band V_4132

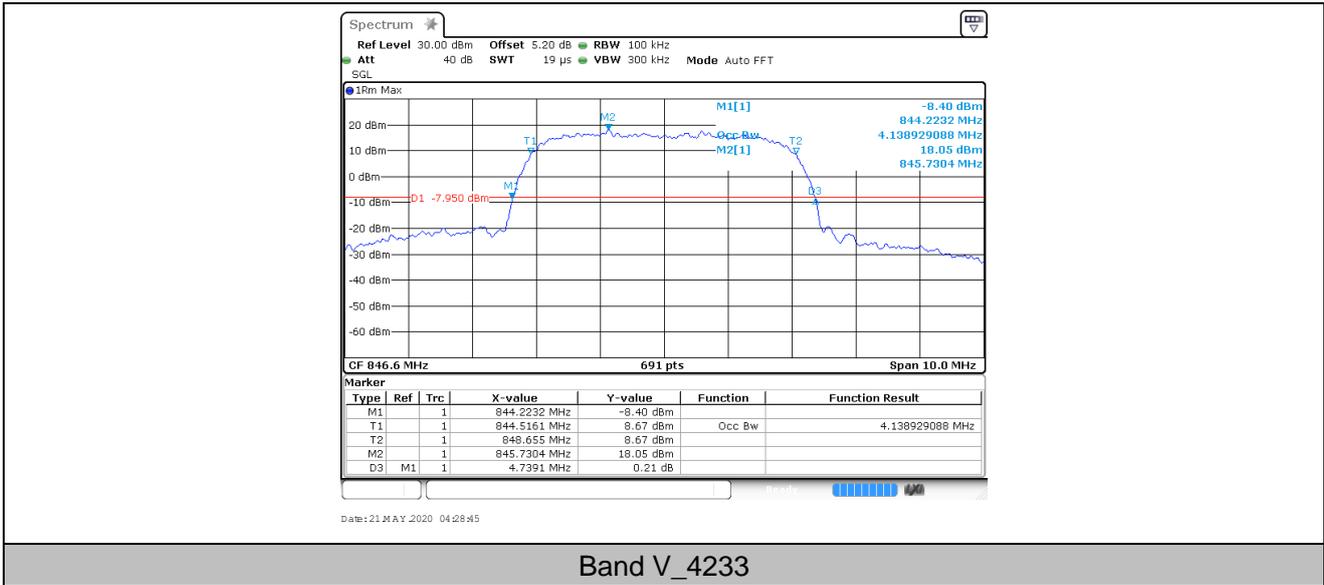


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Band V_4182



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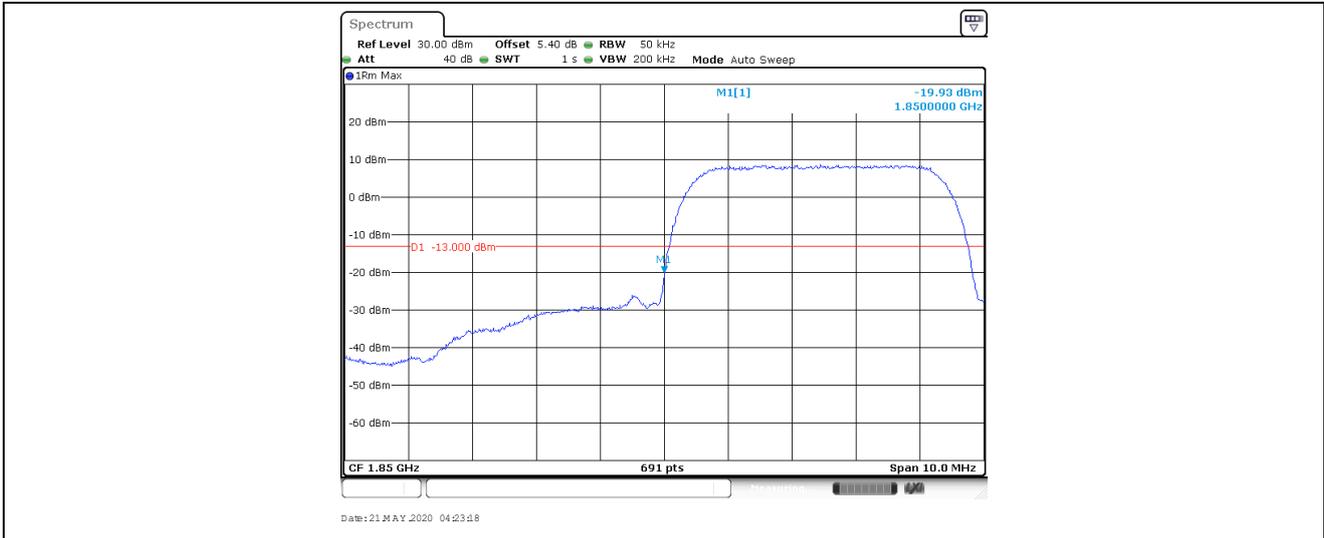
Band V_4233



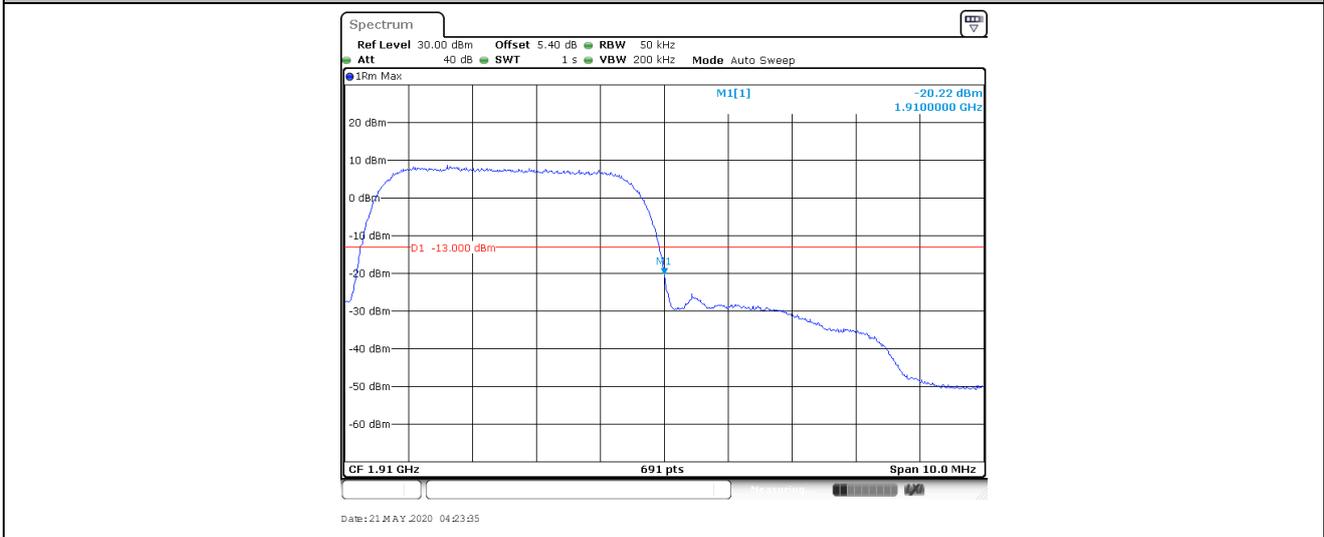
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5. Band Edge Compliance

5.1. Test Plots



Band II_9262

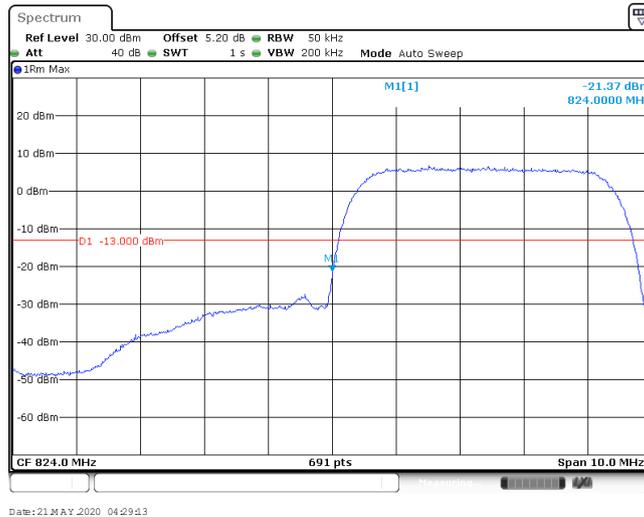


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Band V_4132



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Band V_4233



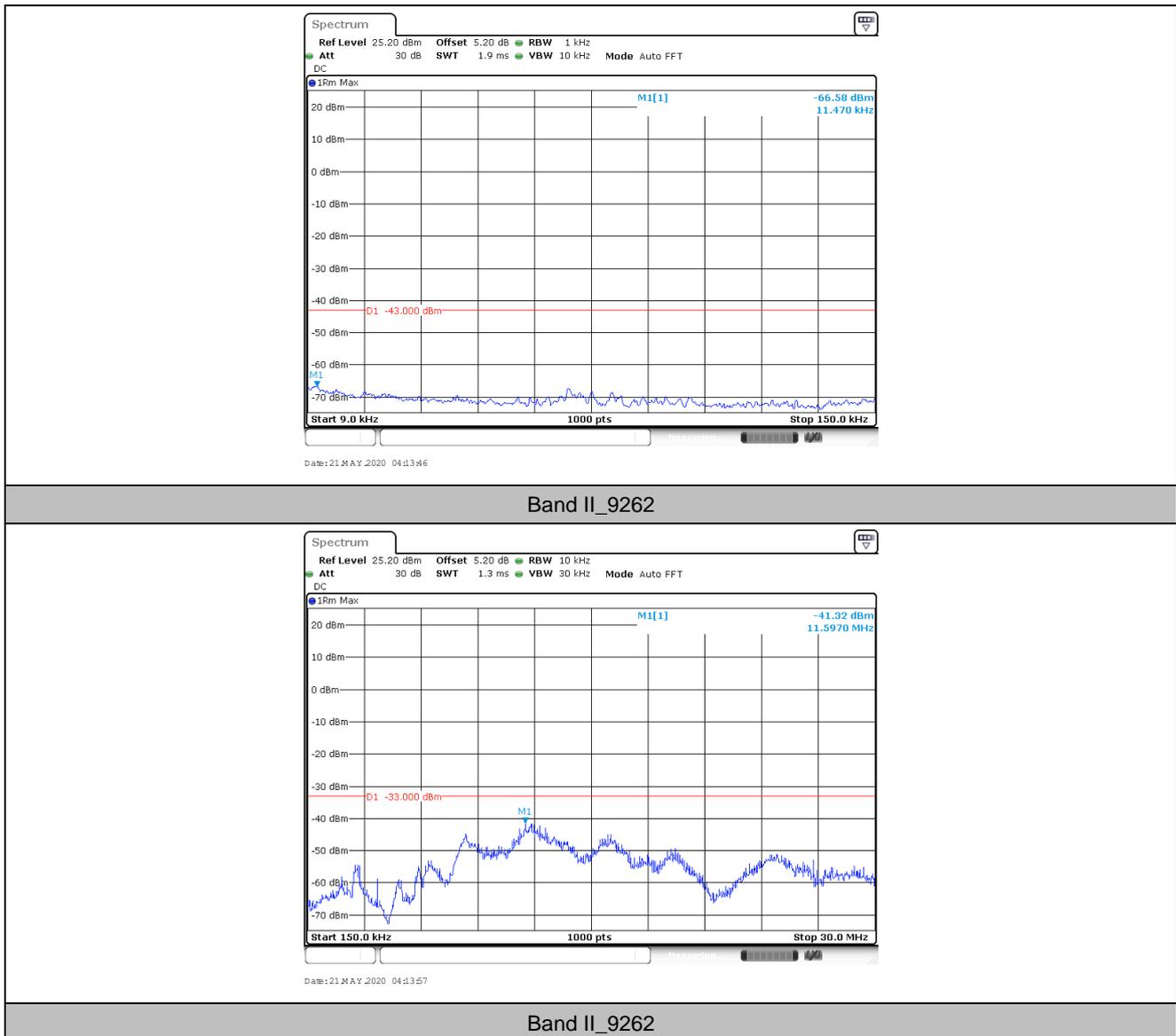
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6. Spurious Emission at Antenna Terminal

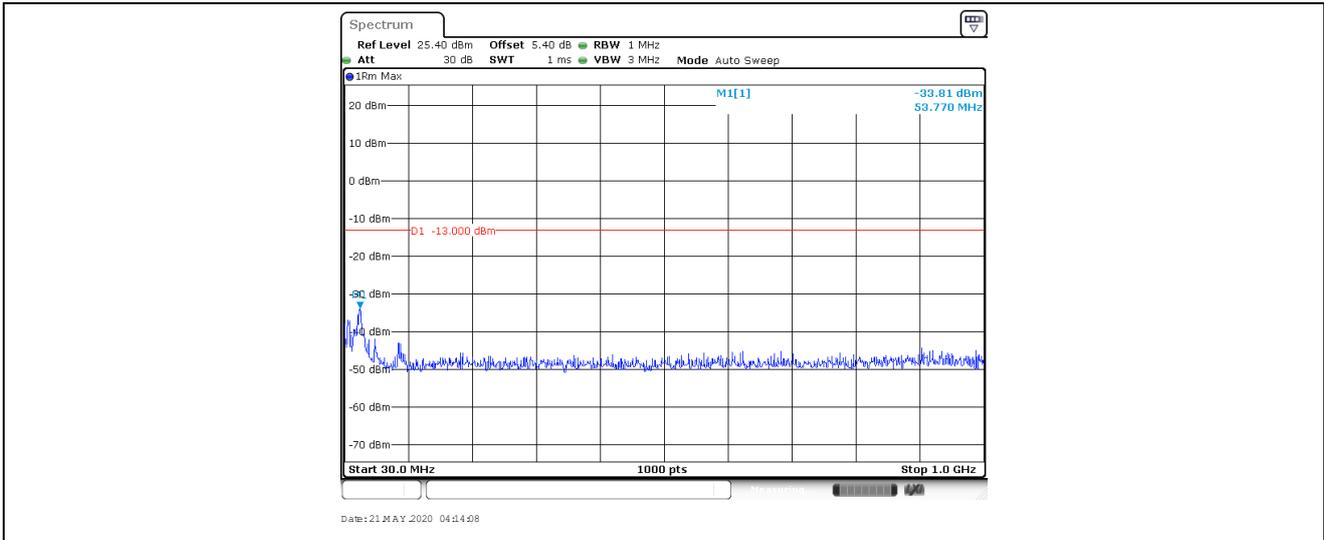
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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.

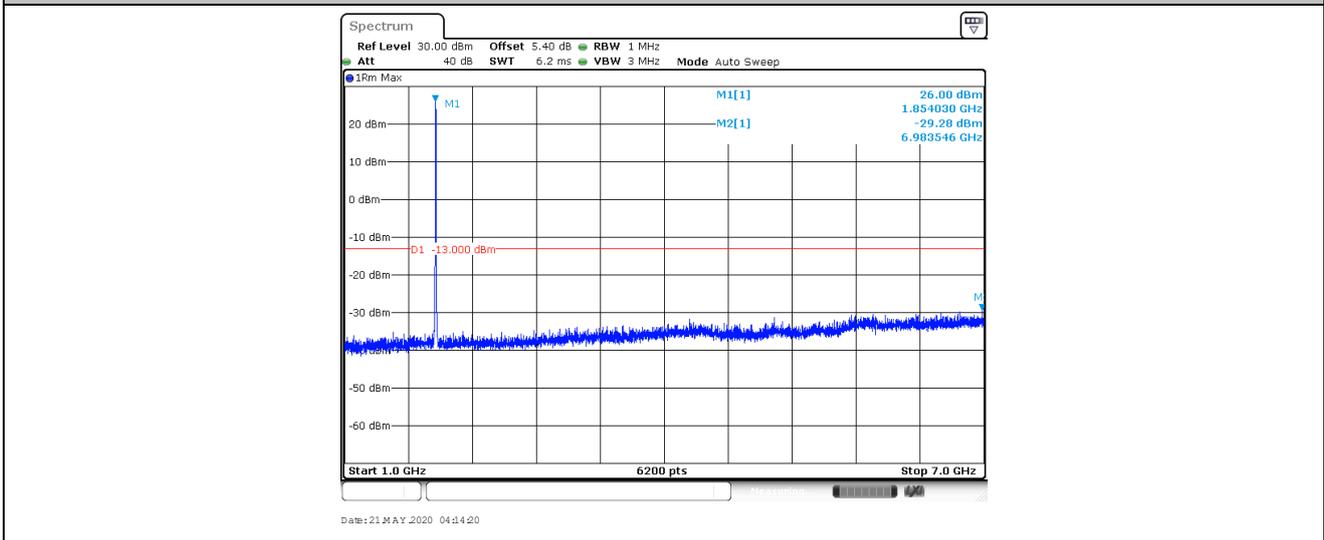
6.1. Test Plots



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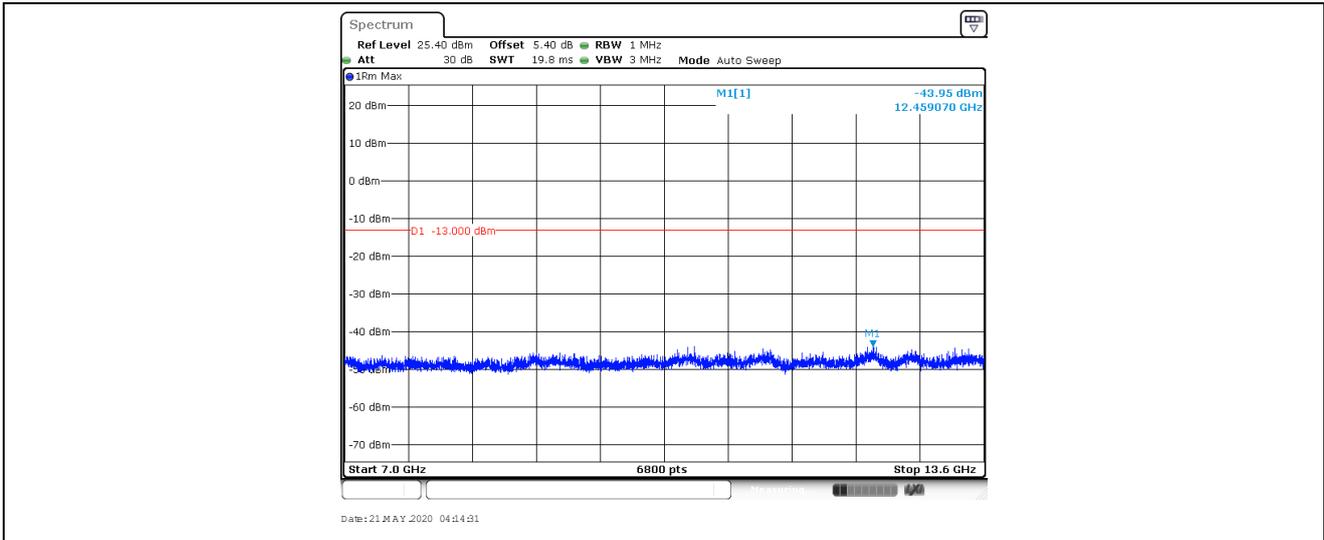


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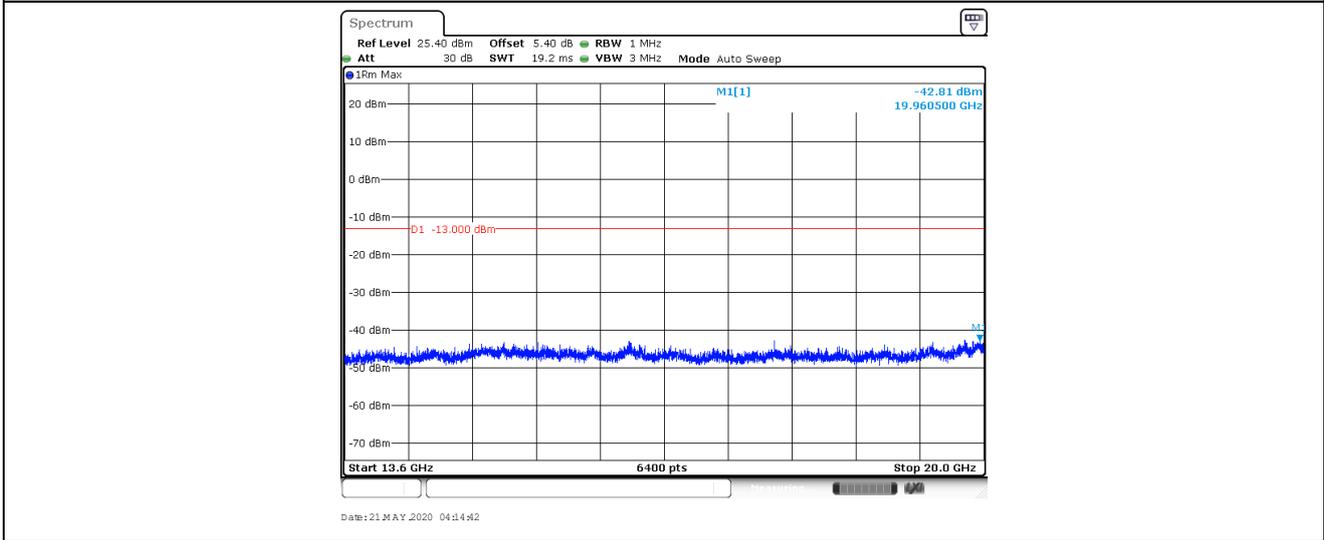


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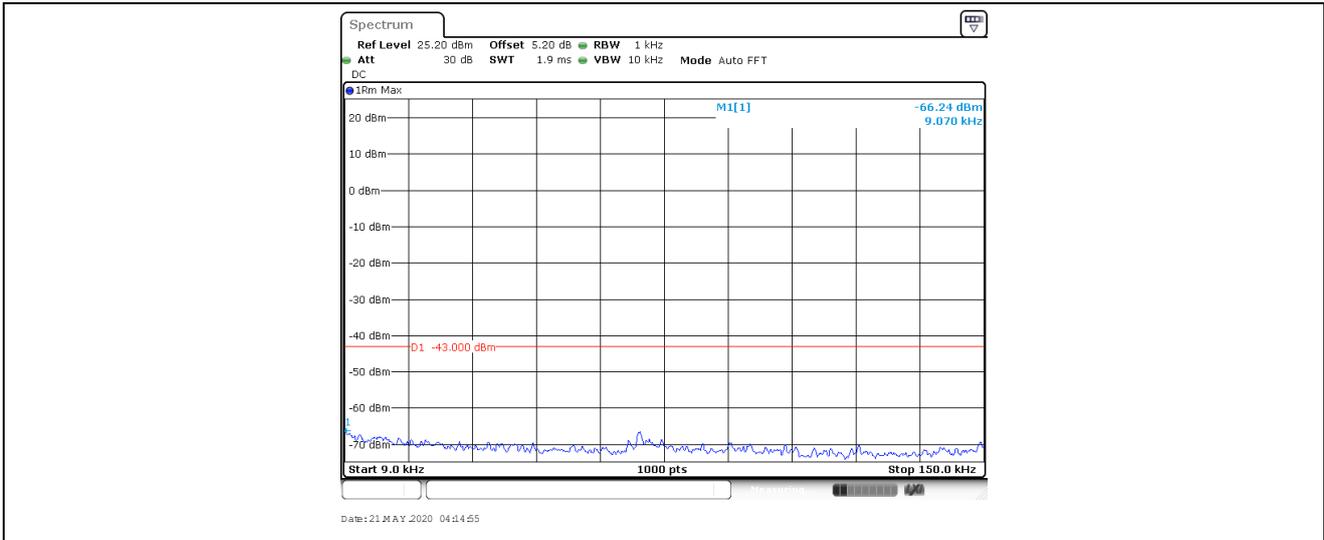


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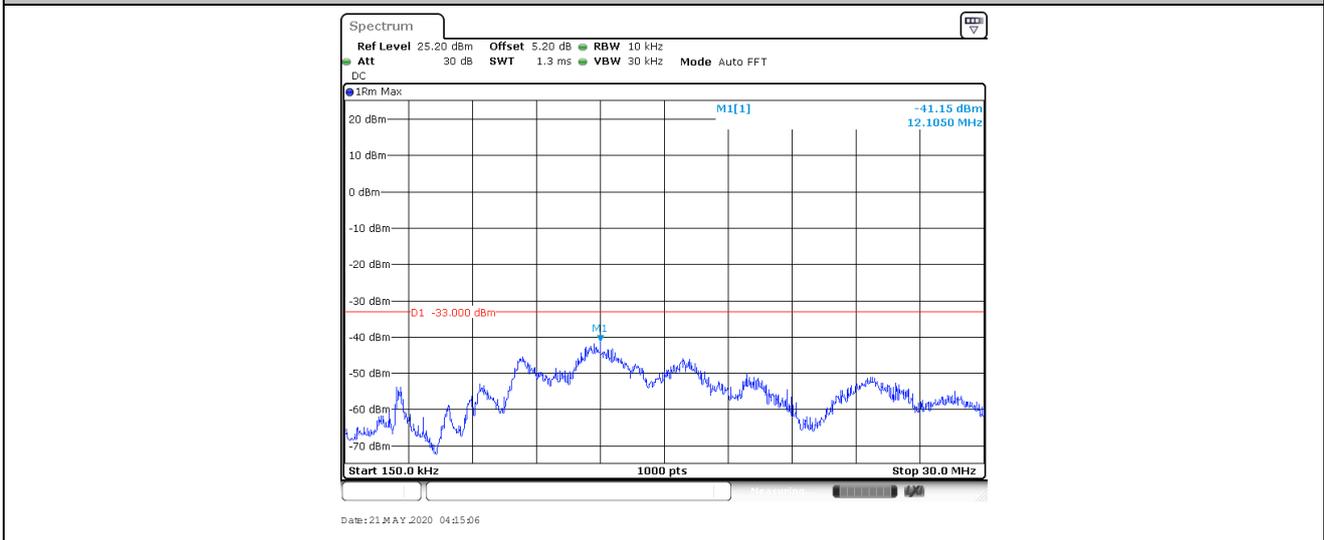


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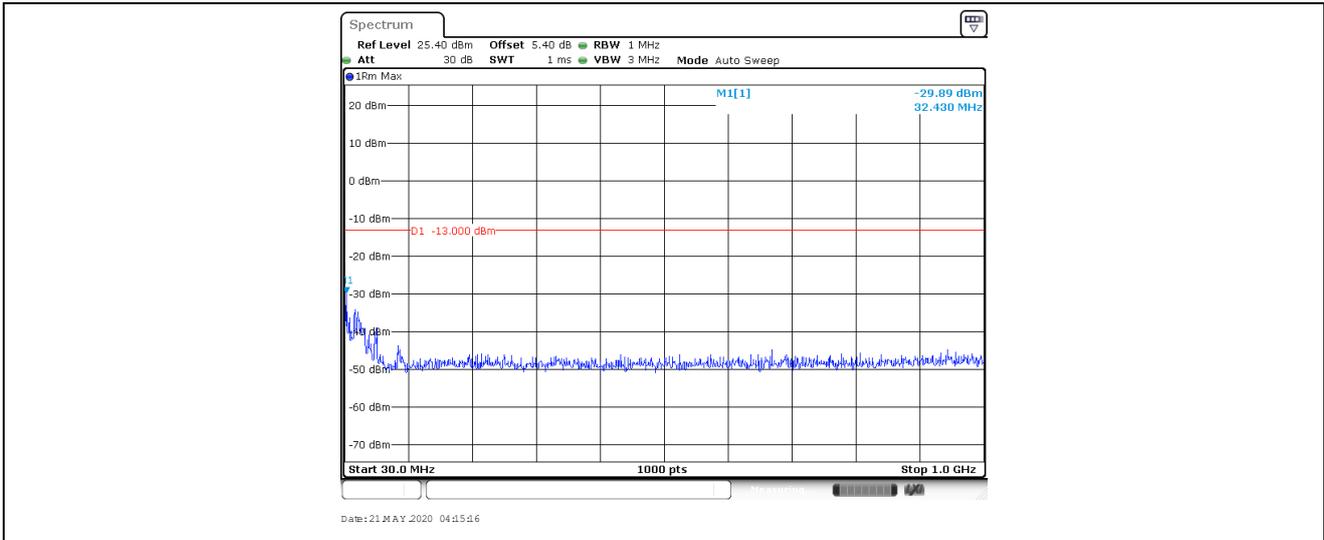
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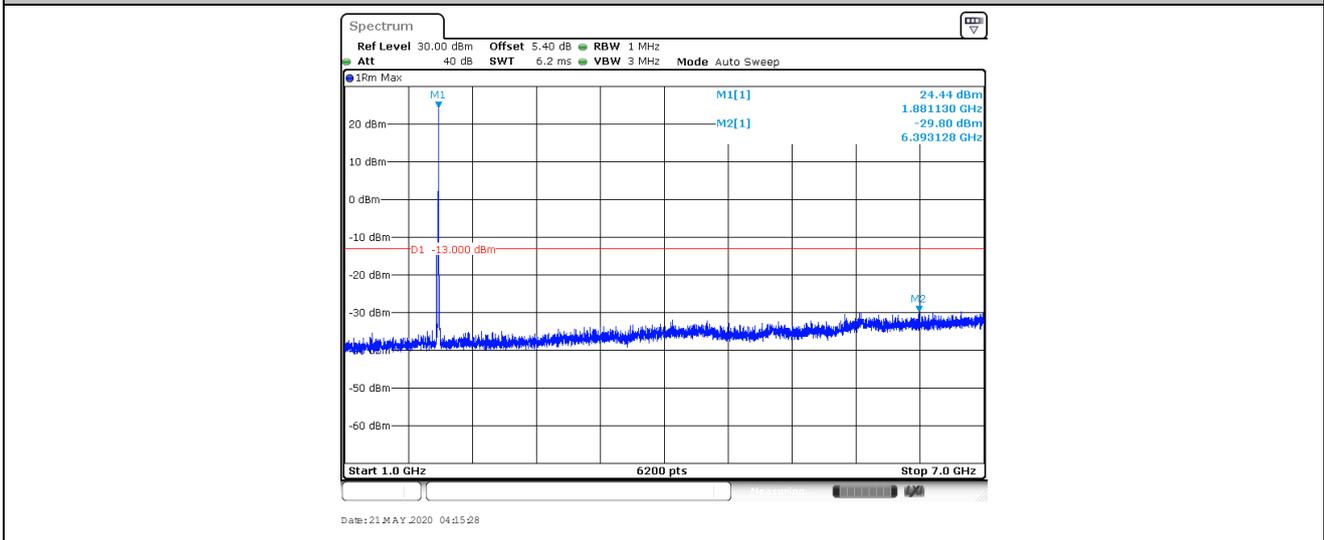
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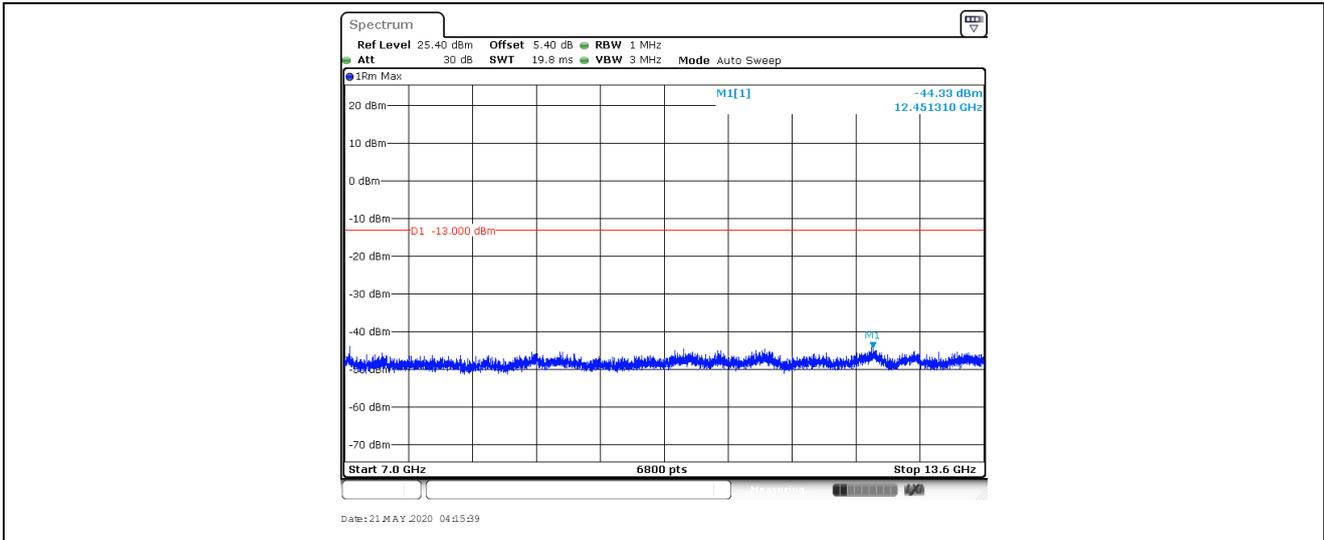


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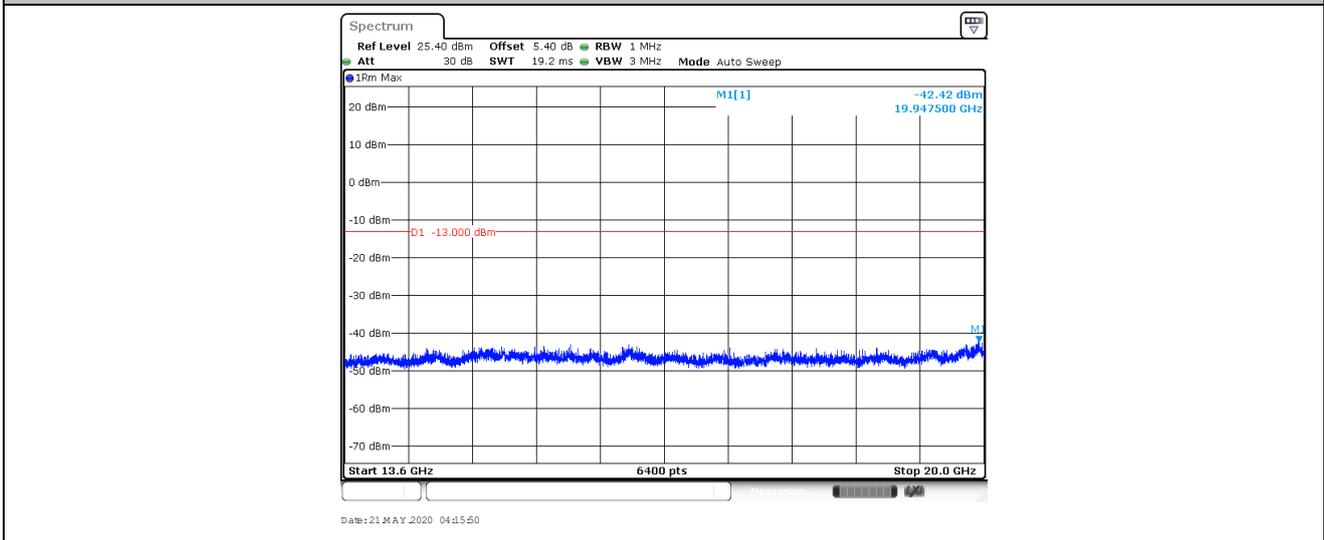


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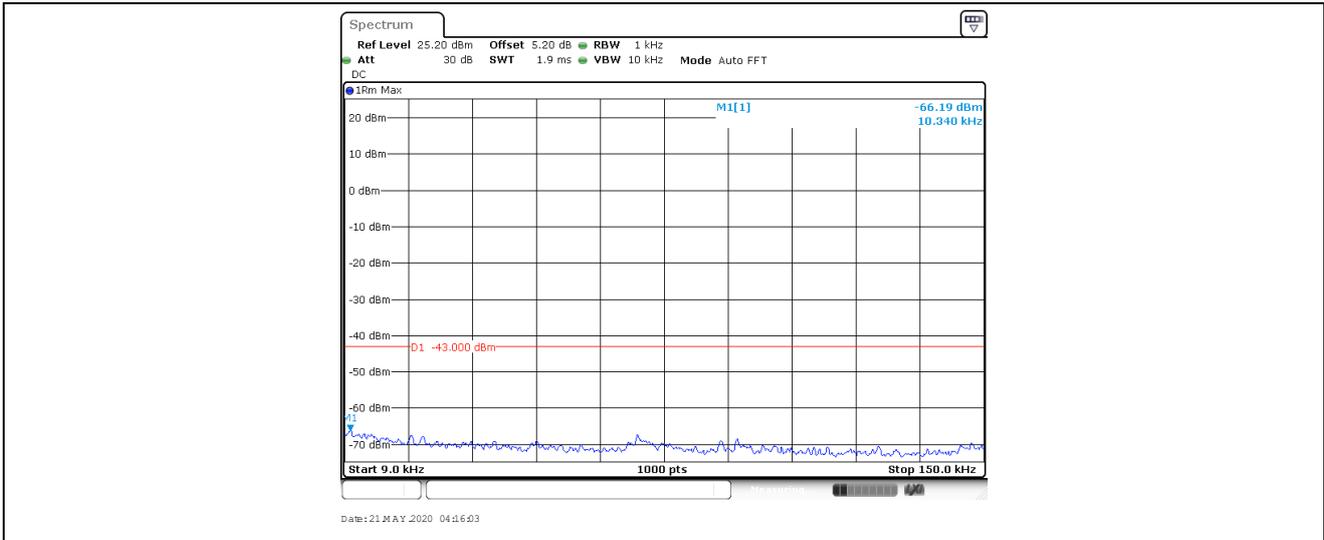


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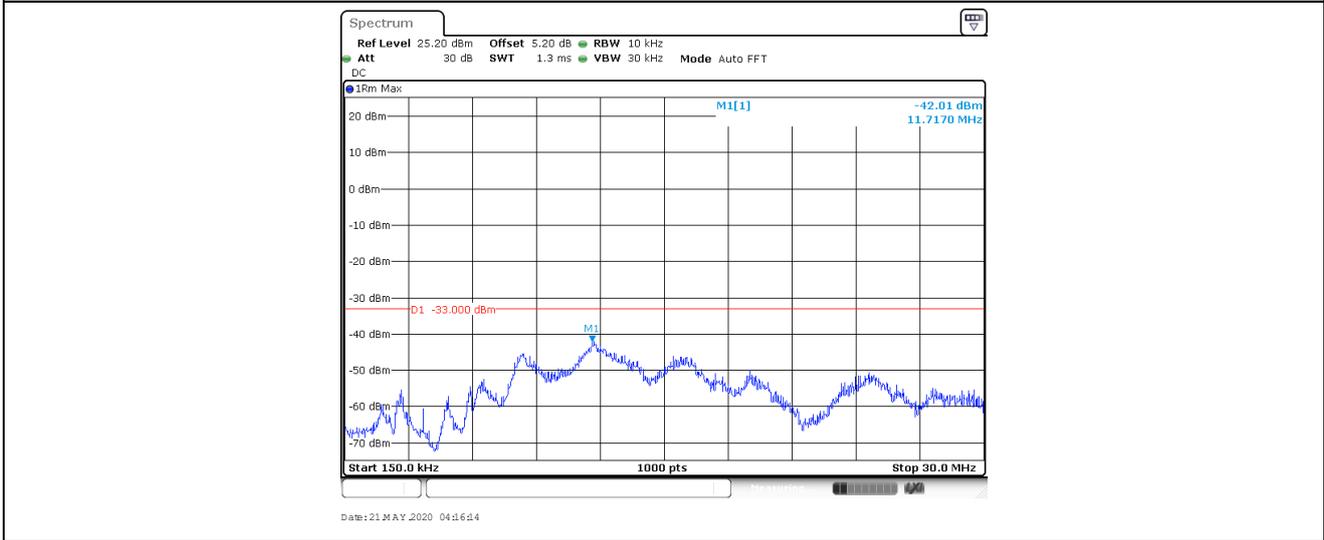


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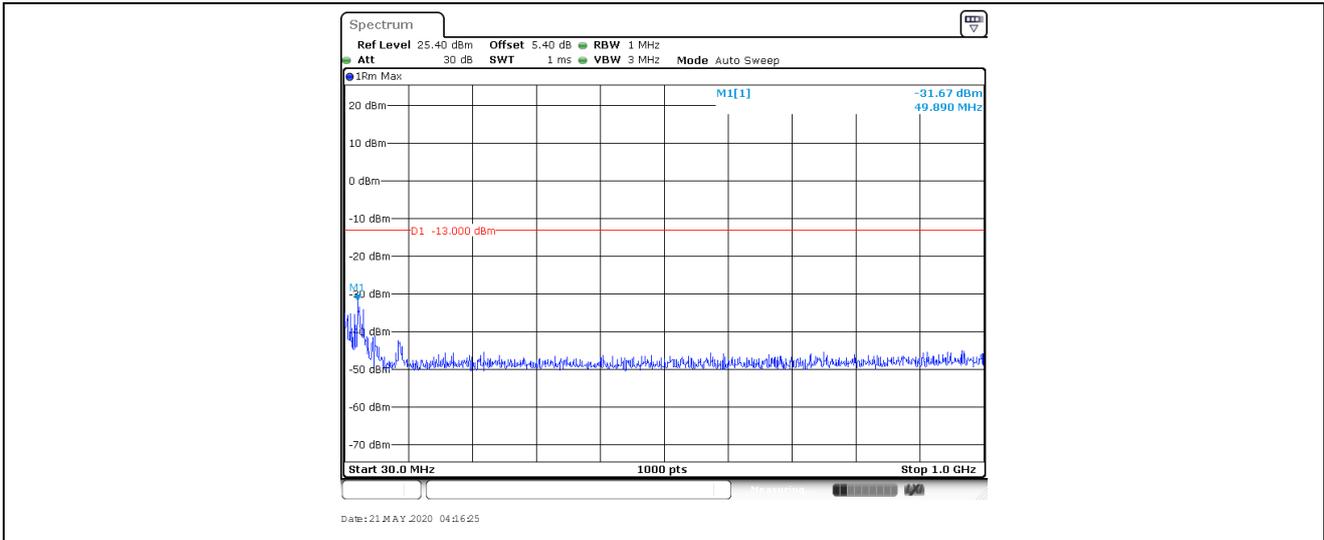


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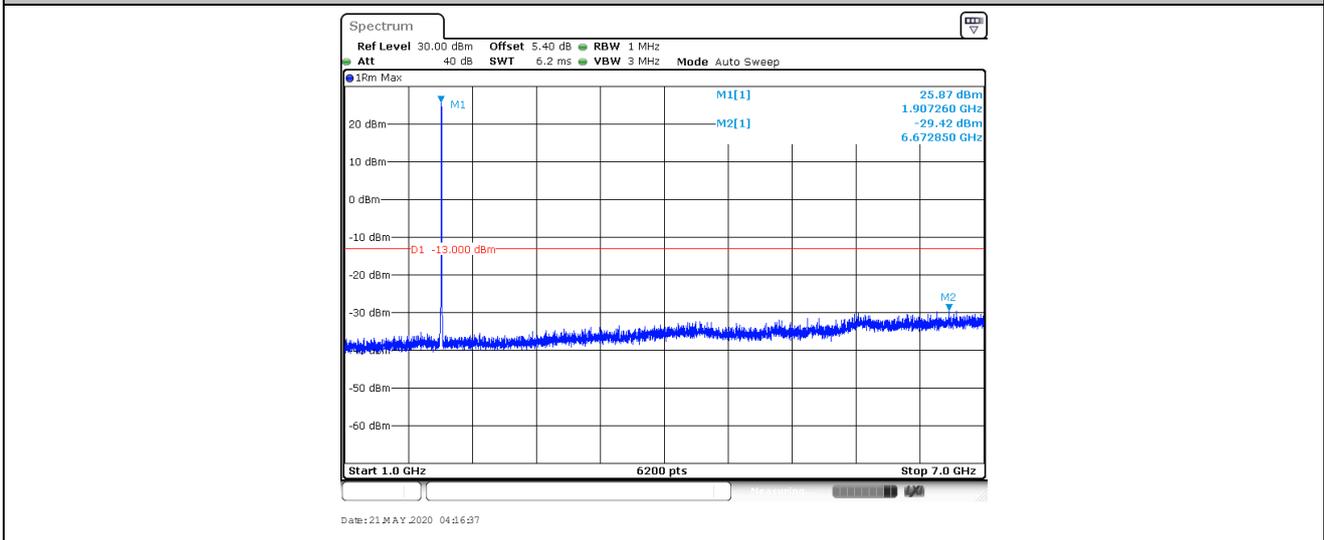


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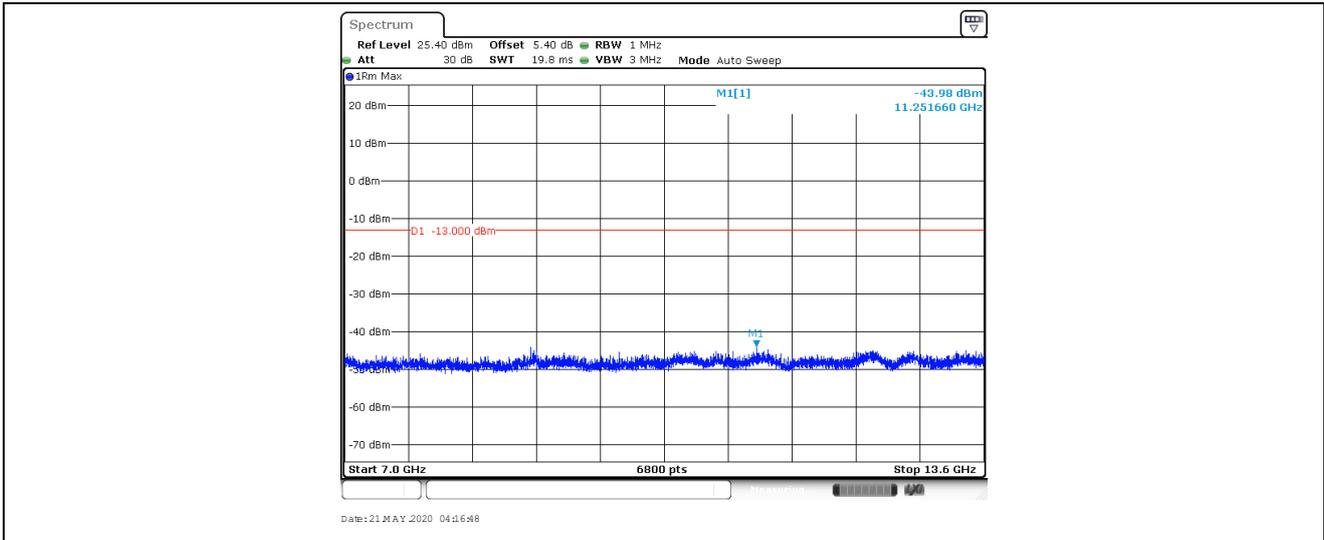


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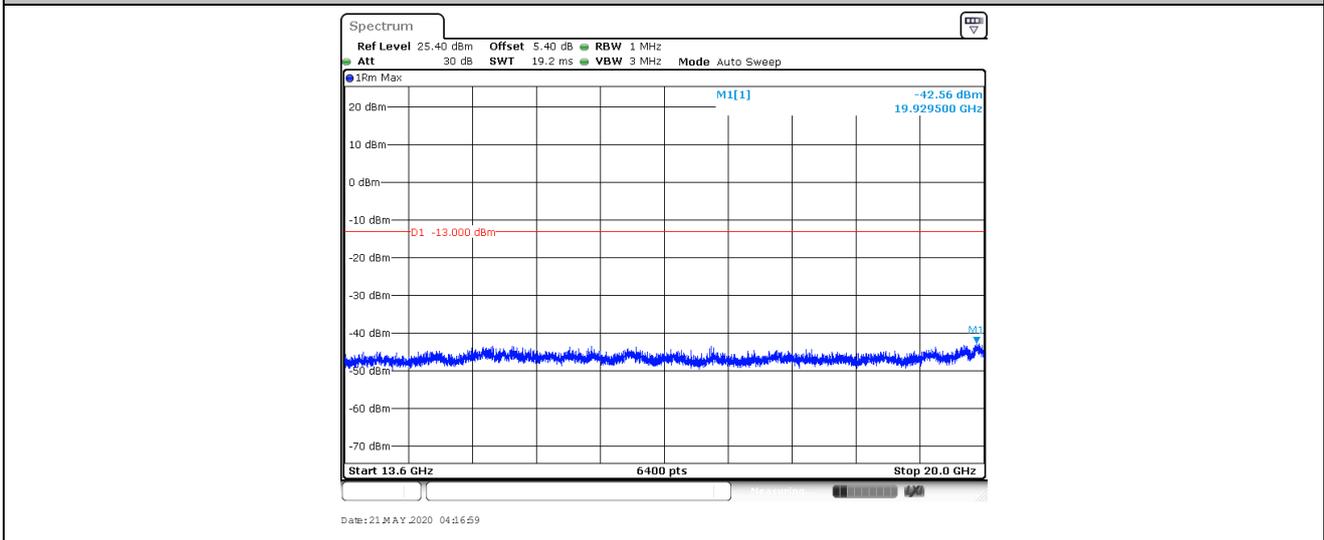


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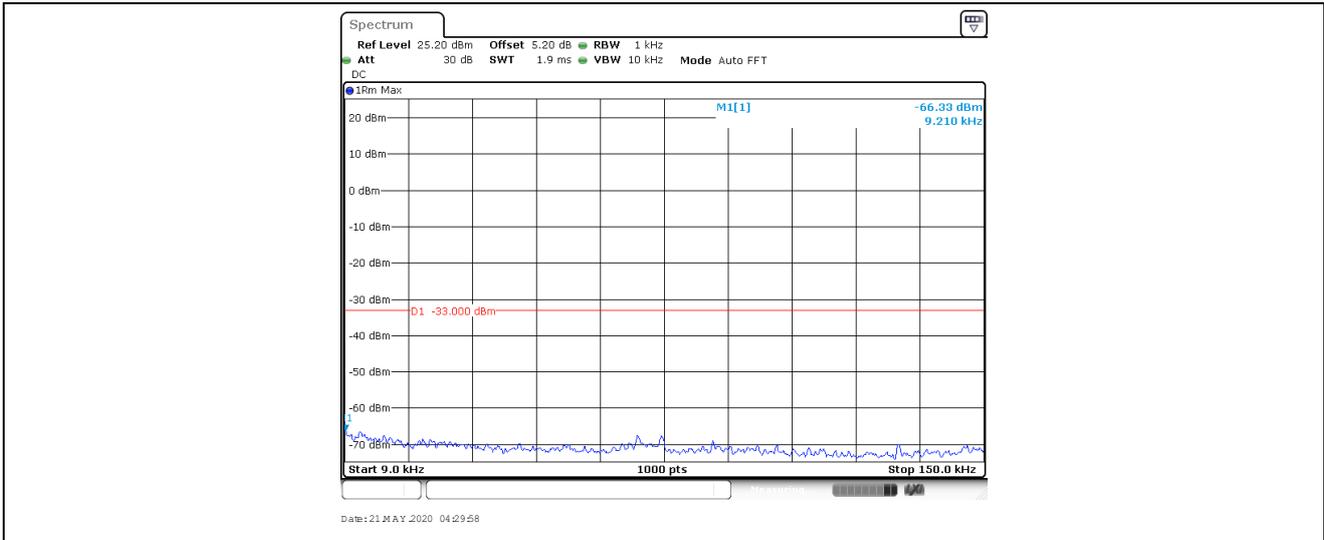
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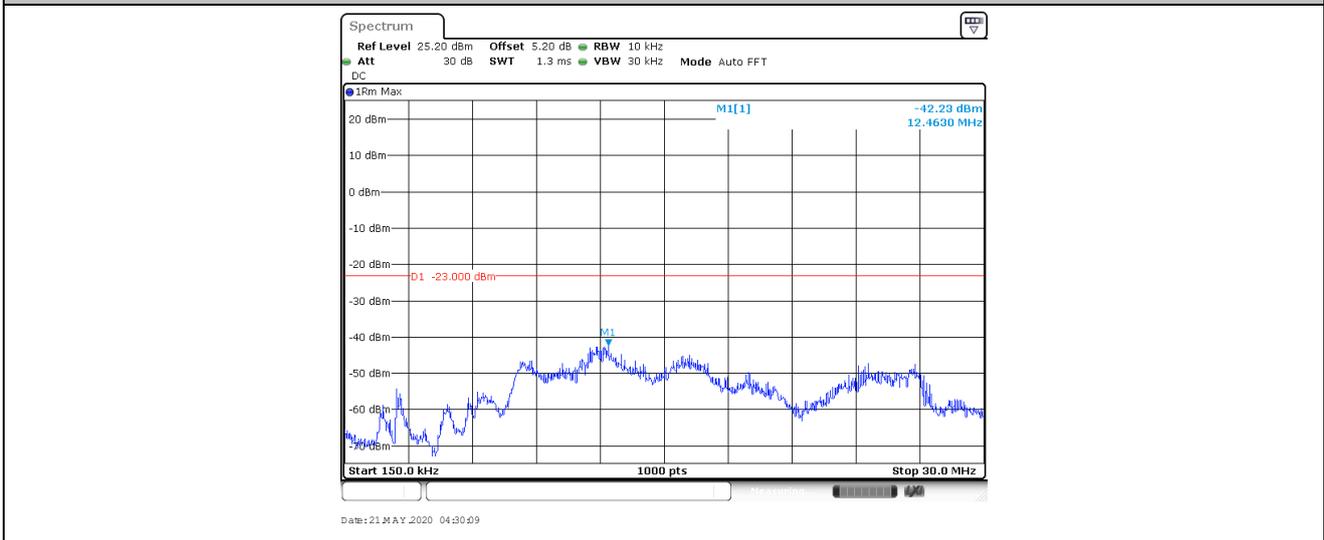
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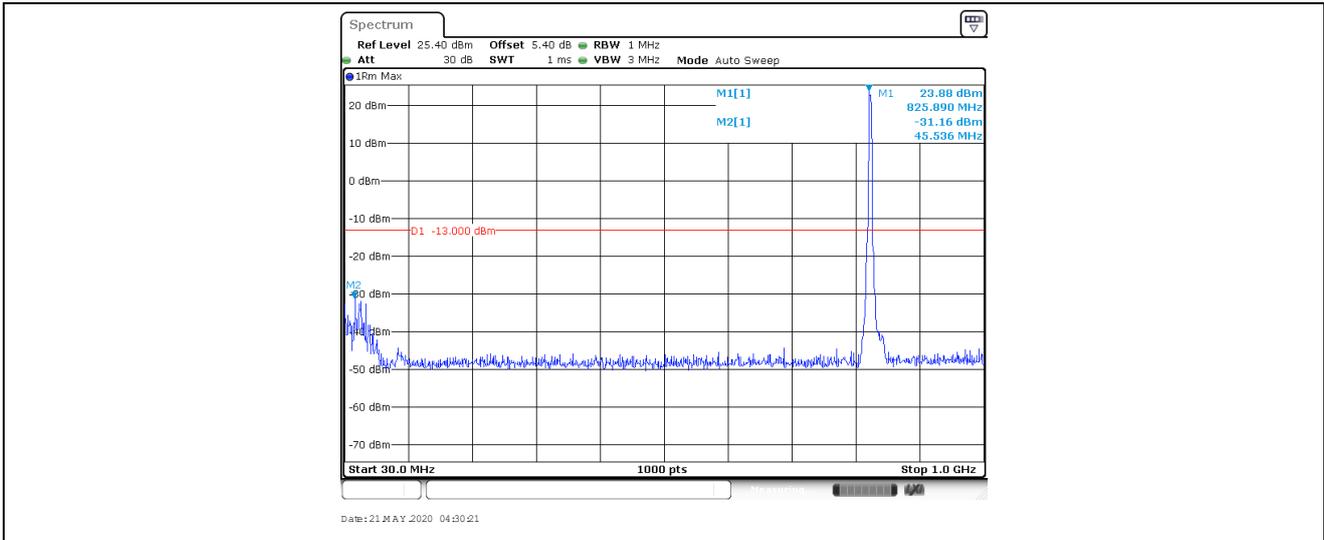
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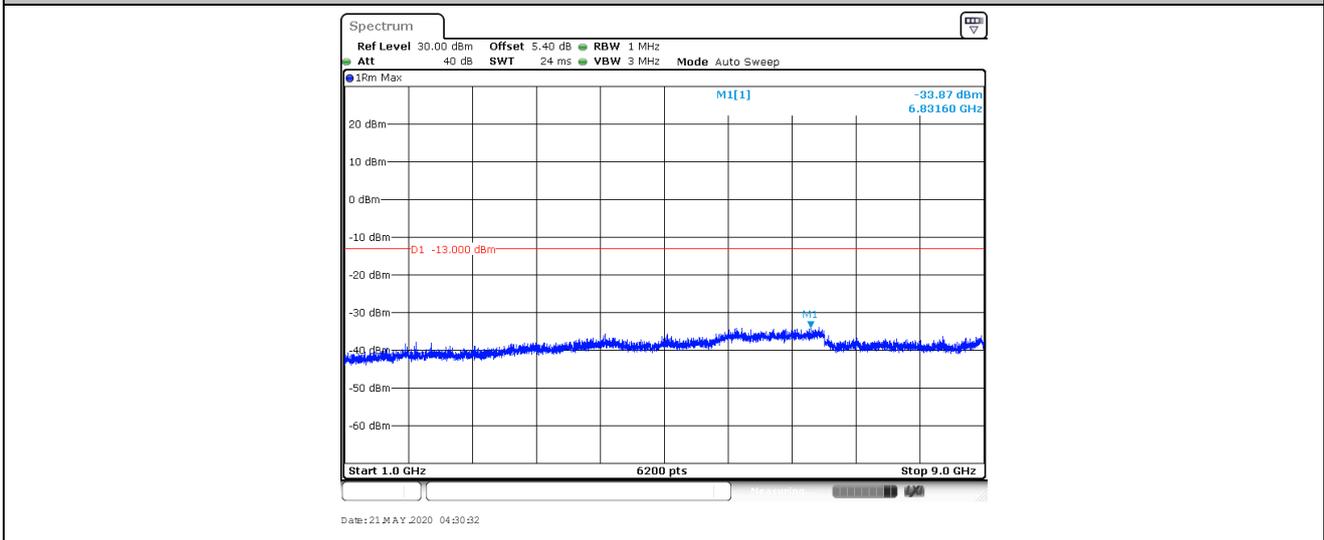
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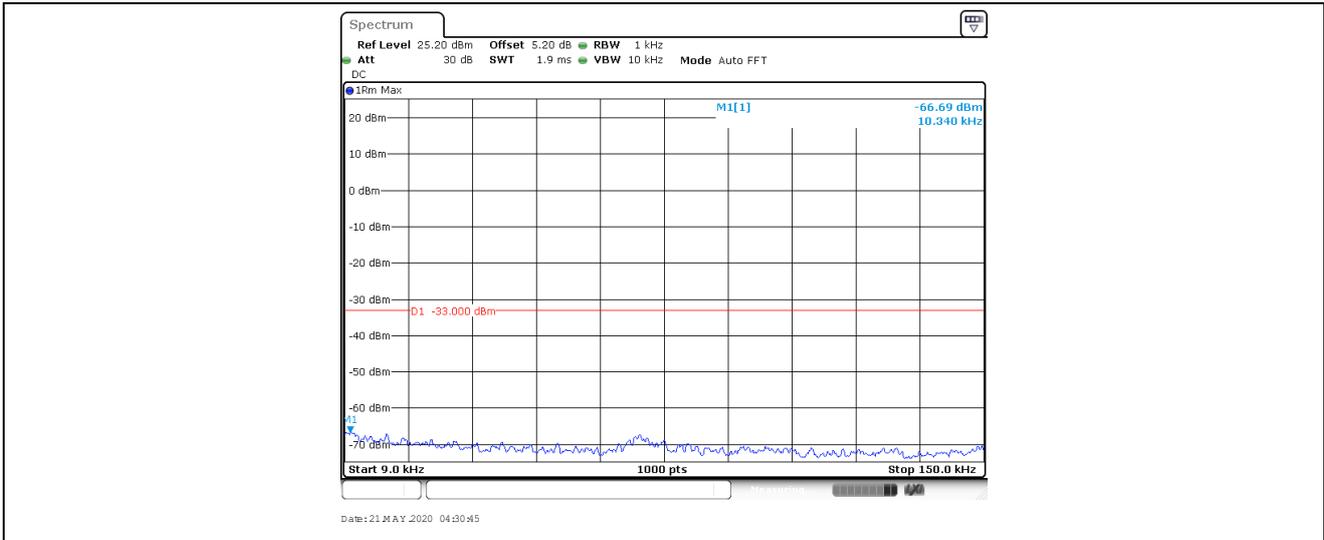


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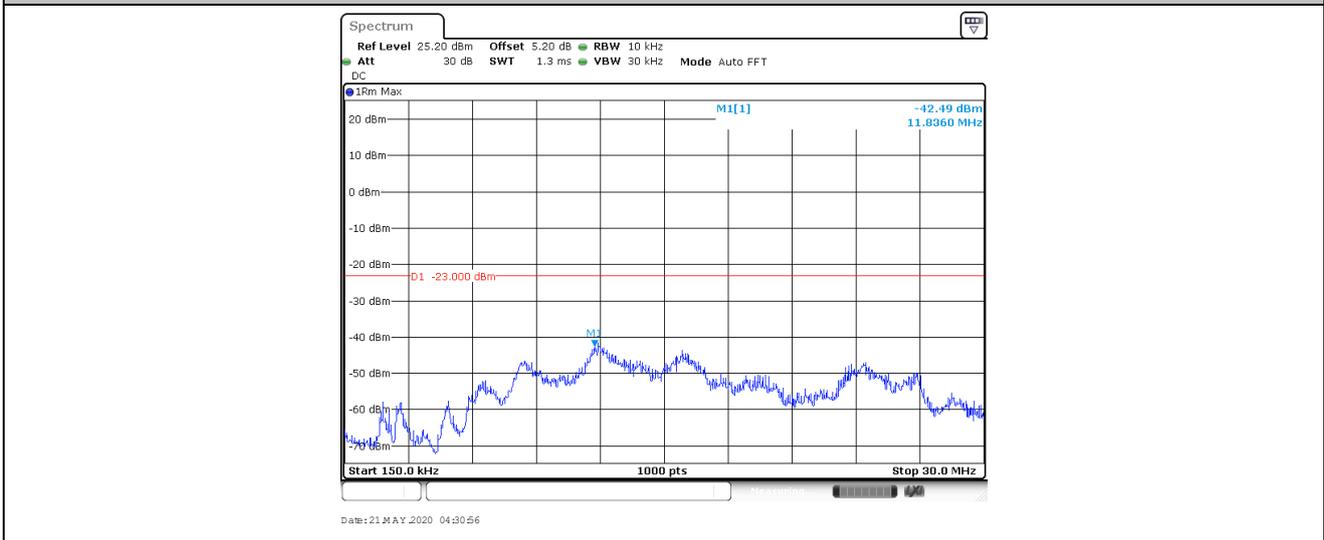


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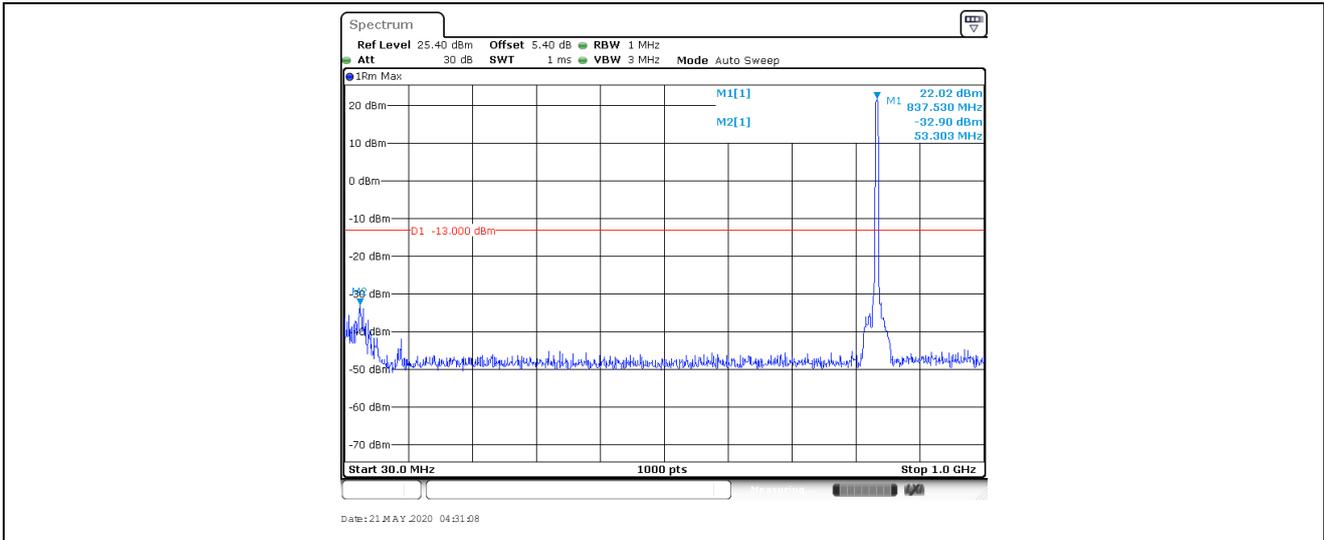
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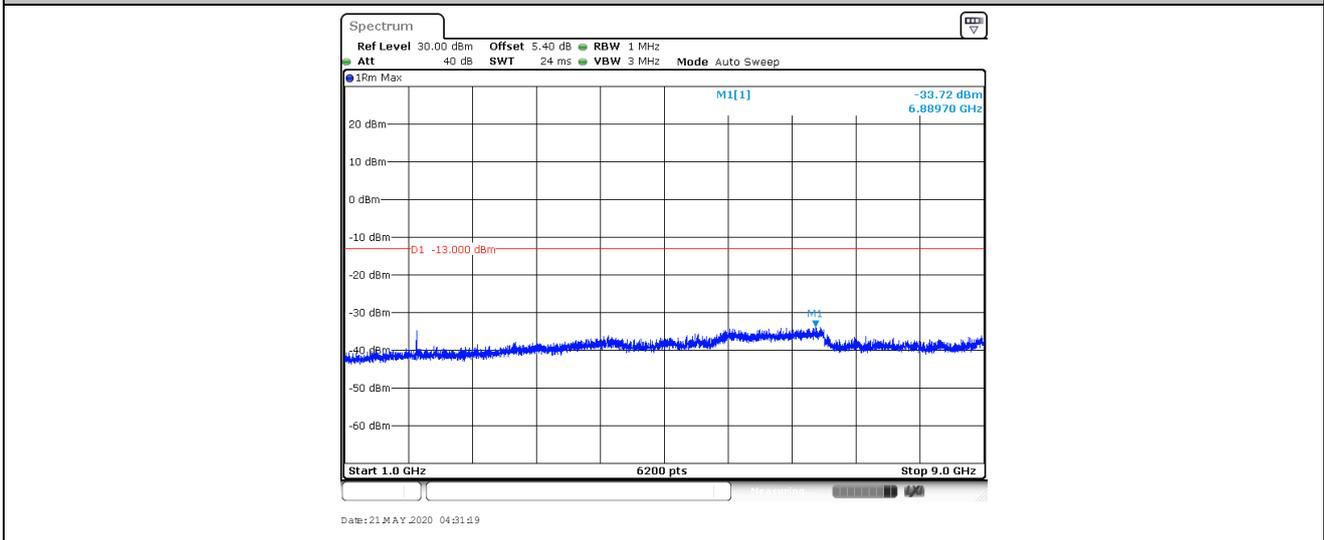
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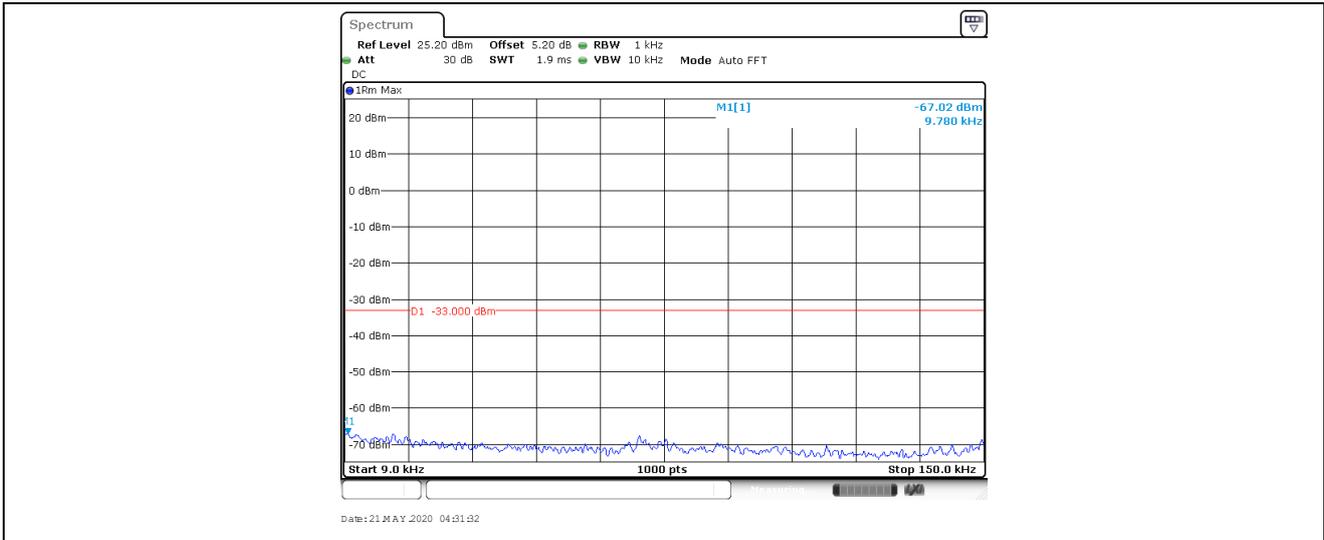


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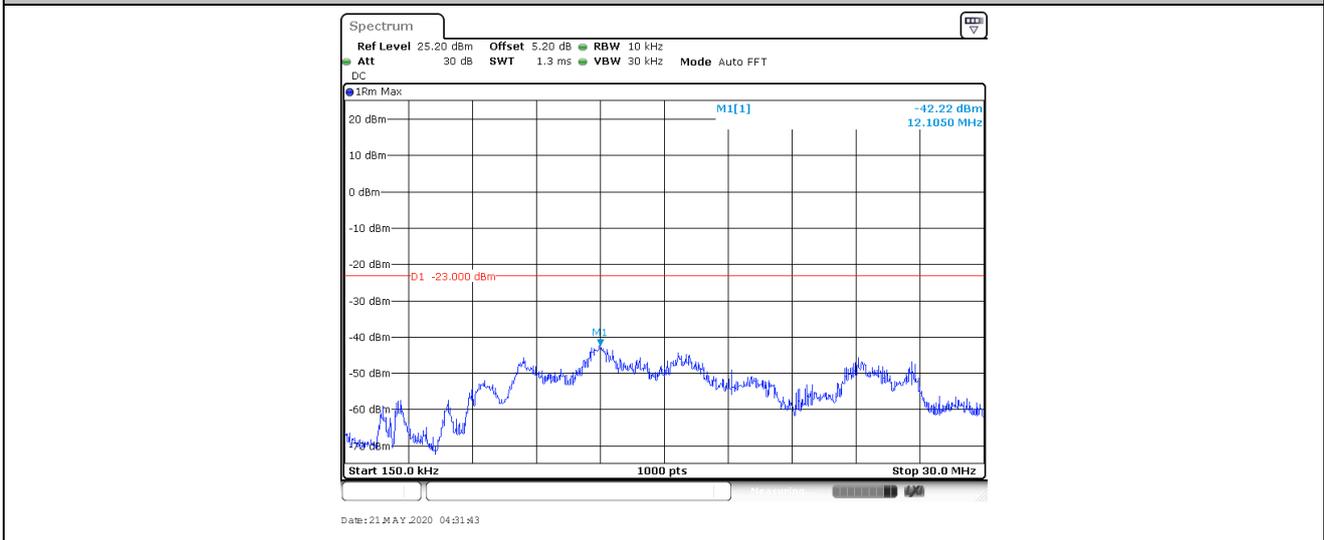


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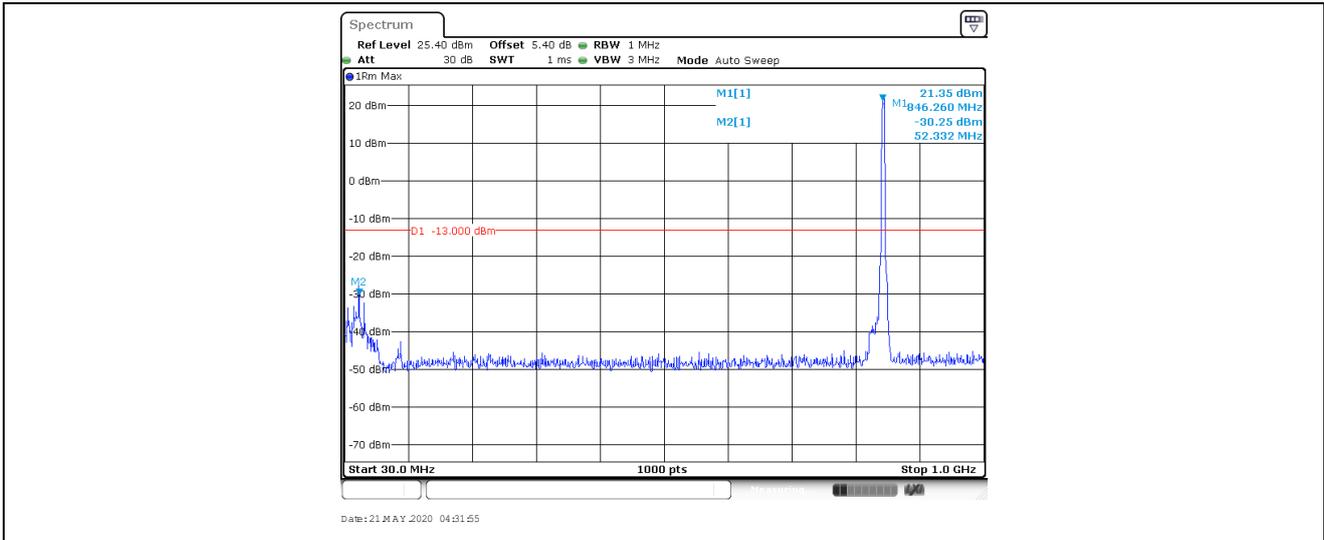
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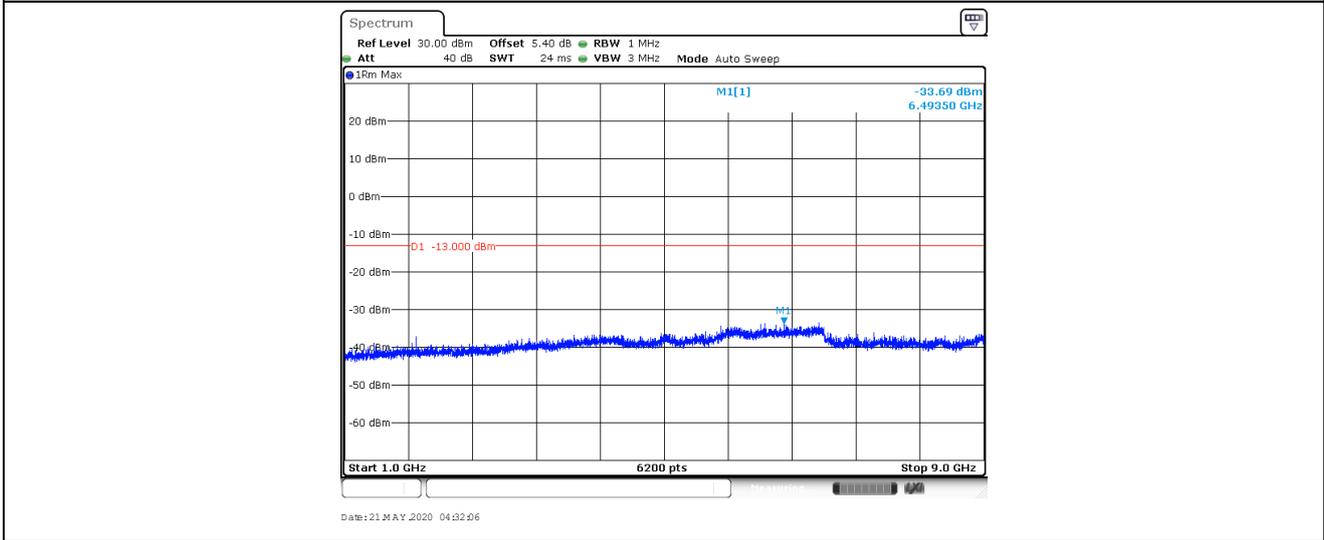
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7. Field Strength of Spurious Radiation

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)	Height [cm]	Angle [°]	Polarization
111.6296	-64.26	-13.00	51.26	184	168	Vertical
601.1161	-62.98	-13.00	49.98	175	262	Vertical
2698.3397	-36.49	-13.00	23.49	196	281	Vertical
7365.6455	-55.92	-13.00	42.92	148	356	Vertical
14497.8833	-47.62	-13.00	34.62	196	136	Vertical
17997.9999	-39.97	-13.00	26.97	175	294	Vertical
40.6705	-63.97	-13.00	50.97	271	162	Horizontal
659.9010	-62.94	-13.00	49.94	241	257	Horizontal
2698.3397	-35.43	-13.00	22.43	256	76	Horizontal
3706.5236	-57.23	-13.00	44.23	284	162	Horizontal
16393.9465	-42.53	-13.00	29.53	247	130	Horizontal
17997.9999	-45.06	-13.00	32.06	251	356	Horizontal



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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
108.2829	-65.97	-13.00	52.97	184	293	Vertical
634.5342	-63.61	-13.00	50.61	175	8	Vertical
2637.9276	-37.91	-13.00	24.91	196	337	Vertical
7476.6492	-56.09	-13.00	43.09	184	293	Vertical
14703.3901	-47.24	-13.00	34.24	175	356	Vertical
17995.9999	-39.89	-13.00	26.89	168	8	Vertical
42.0286	-64.08	-13.00	51.08	241	325	Horizontal
631.3331	-63.54	-13.00	50.54	258	261	Horizontal
2698.3397	-35.58	-13.00	22.58	265	264	Horizontal
3758.5253	-56.68	-13.00	43.68	274	166	Horizontal
16369.4456	-43.97	-13.00	30.97	259	293	Horizontal
17993.4998	-45.00	-13.00	32.00	263	39	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
113.7637	-64.95	-13.00	51.95	274	262	Vertical
772.6691	-61.74	-13.00	48.74	256	8	Vertical
2702.7405	-36.63	-13.00	23.63	284	4	Vertical
3817.0272	-58.73	-13.00	45.73	269	293	Vertical
14377.8793	-48.37	-13.00	35.37	274	293	Vertical
17999.0000	-39.81	-13.00	26.81	258	8	Vertical
41.9316	-64.42	-13.00	51.42	147	262	Horizontal
617.6069	-63.92	-13.00	50.92	165	262	Horizontal
2702.7405	-35.36	-13.00	22.36	285	152	Horizontal
3816.5272	-55.10	-13.00	42.10	274	166	Horizontal
16394.9465	-43.54	-13.00	30.54	265	356	Horizontal
17998.5000	-44.90	-13.00	31.90	289	166	Horizontal



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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

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
102.2201	-65.62	-13.00	52.62	271	103	Vertical
473.8942	-66.48	-13.00	53.48	254	71	Vertical
2863.1726	-51.80	-13.00	38.80	263	252	Vertical
7333.6445	-55.84	-13.00	42.84	271	39	Vertical
14480.8827	-47.67	-13.00	34.67	248	71	Vertical
17993.9998	-39.74	-13.00	26.74	265	356	Vertical
44.6477	-63.75	-13.00	50.75	187	135	Horizontal
540.8275	-65.13	-13.00	52.13	196	40	Horizontal
2696.7393	-50.64	-13.00	37.64	184	204	Horizontal
7403.1468	-56.15	-13.00	43.15	174	325	Horizontal
16385.4462	-43.03	-13.00	30.03	165	167	Horizontal
17995.4999	-44.66	-13.00	31.66	187	325	Horizontal



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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
108.4769	-64.59	-13.00	51.59	241	325	Vertical
599.5640	-63.83	-13.00	50.83	259	4	Vertical
2699.5399	-52.03	-13.00	39.03	274	216	Vertical
7349.6450	-55.78	-13.00	42.78	265	325	Vertical
14485.8829	-47.80	-13.00	34.80	263	197	Vertical
17992.4998	-39.37	-13.00	26.37	284	261	Vertical
44.7932	-64.70	-13.00	51.70	148	356	Horizontal
501.2011	-66.20	-13.00	53.20	175	4	Horizontal
1670.9342	-60.04	-13.00	47.04	169	123	Horizontal
2702.3405	-50.67	-13.00	37.67	184	96	Horizontal
7477.6493	-56.21	-13.00	43.21	175	168	Horizontal
16388.9463	-43.58	-13.00	30.58	163	231	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
108.9619	-63.82	-13.00	50.82	271	230	Vertical
537.0444	-66.19	-13.00	53.19	254	8	Vertical
2697.9396	-51.89	-13.00	38.89	259	251	Vertical
7362.1454	-55.79	-13.00	42.79	247	230	Vertical
14711.3904	-47.31	-13.00	34.31	236	167	Vertical
17999.0000	-39.84	-13.00	26.84	214	72	Vertical
40.2825	-63.88	-13.00	50.88	271	39	Horizontal
532.7761	-64.89	-13.00	51.89	256	39	Horizontal
2699.5399	-50.56	-13.00	37.56	281	268	Horizontal
7423.6475	-56.33	-13.00	43.33	263	261	Horizontal
16403.4468	-43.49	-13.00	30.49	281	229	Horizontal
17999.0000	-44.63	-13.00	31.63	278	293	Horizontal



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

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	2.34	0.001263	±2.5	PASS
Band II	9262	VN	TN	12.90	0.006966	±2.5	PASS
Band II	9262	VH	TN	-6.87	-0.003706	±2.5	PASS
Band II	9400	VL	TN	9.87	0.005252	±2.5	PASS
Band II	9400	VN	TN	14.34	0.007630	±2.5	PASS
Band II	9400	VH	TN	-12.54	-0.006673	±2.5	PASS
Band II	9538	VL	TN	11.05	0.005795	±2.5	PASS
Band II	9538	VN	TN	2.99	0.001567	±2.5	PASS
Band II	9538	VH	TN	-9.04	-0.004740	±2.5	PASS
Band V	4132	VL	TN	9.65	0.011678	±2.5	PASS
Band V	4132	VN	TN	2.83	0.003426	±2.5	PASS
Band V	4132	VH	TN	-4.09	-0.004955	±2.5	PASS
Band V	4182	VL	TN	-7.80	-0.009329	±2.5	PASS
Band V	4182	VN	TN	-1.89	-0.002264	±2.5	PASS
Band V	4182	VH	TN	0.37	0.000437	±2.5	PASS
Band V	4233	VL	TN	12.79	0.015109	±2.5	PASS
Band V	4233	VN	TN	-6.84	-0.008075	±2.5	PASS
Band V	4233	VH	TN	3.22	0.003808	±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	5.21	0.002813	±2.5	PASS
Band II	9262	VN	-20	14.65	0.007906	±2.5	PASS
Band II	9262	VN	-10	-1.94	-0.001046	±2.5	PASS
Band II	9262	VN	0	-0.03	-0.000014	±2.5	PASS
Band II	9262	VN	10	-2.80	-0.001511	±2.5	PASS



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Band II	9262	VN	20	-2.33	-0.001260	±2.5	PASS
Band II	9262	VN	30	11.63	0.006280	±2.5	PASS
Band II	9262	VN	40	13.10	0.007073	±2.5	PASS
Band II	9262	VN	50	1.47	0.000794	±2.5	PASS
Band II	9400	VN	-30	3.23	0.001721	±2.5	PASS
Band II	9400	VN	-20	-7.34	-0.003902	±2.5	PASS
Band II	9400	VN	-10	-13.54	-0.007203	±2.5	PASS
Band II	9400	VN	0	11.00	0.005850	±2.5	PASS
Band II	9400	VN	10	-8.84	-0.004704	±2.5	PASS
Band II	9400	VN	20	-11.02	-0.005863	±2.5	PASS
Band II	9400	VN	30	8.24	0.004381	±2.5	PASS
Band II	9400	VN	40	-6.44	-0.003424	±2.5	PASS
Band II	9400	VN	50	-4.56	-0.002424	±2.5	PASS
Band II	9538	VN	-30	5.51	0.002887	±2.5	PASS
Band II	9538	VN	-20	-2.42	-0.001269	±2.5	PASS
Band II	9538	VN	-10	-14.59	-0.007647	±2.5	PASS
Band II	9538	VN	0	-8.98	-0.004705	±2.5	PASS
Band II	9538	VN	10	-1.26	-0.000661	±2.5	PASS
Band II	9538	VN	20	14.89	0.007808	±2.5	PASS
Band II	9538	VN	30	-0.23	-0.000122	±2.5	PASS
Band II	9538	VN	40	-13.80	-0.007236	±2.5	PASS
Band II	9538	VN	50	13.22	0.006931	±2.5	PASS
Band V	4132	VN	-30	-12.48	-0.015102	±2.5	PASS
Band V	4132	VN	-20	11.72	0.014188	±2.5	PASS
Band V	4132	VN	-10	10.09	0.012214	±2.5	PASS
Band V	4132	VN	0	-14.52	-0.017571	±2.5	PASS
Band V	4132	VN	10	-9.00	-0.010886	±2.5	PASS
Band V	4132	VN	20	-4.44	-0.005368	±2.5	PASS
Band V	4132	VN	30	-5.05	-0.006115	±2.5	PASS
Band V	4132	VN	40	-13.22	-0.016002	±2.5	PASS
Band V	4132	VN	50	-7.46	-0.009023	±2.5	PASS
Band V	4182	VN	-30	-2.28	-0.002731	±2.5	PASS
Band V	4182	VN	-20	-6.13	-0.007332	±2.5	PASS
Band V	4182	VN	-10	-1.50	-0.001791	±2.5	PASS
Band V	4182	VN	0	-10.80	-0.012908	±2.5	PASS
Band V	4182	VN	10	4.15	0.004957	±2.5	PASS
Band V	4182	VN	20	1.95	0.002334	±2.5	PASS



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Band V	4182	VN	30	13.02	0.015562	±2.5	PASS
Band V	4182	VN	40	10.94	0.013082	±2.5	PASS
Band V	4182	VN	50	-0.88	-0.001057	±2.5	PASS
Band V	4233	VN	-30	1.76	0.002074	±2.5	PASS
Band V	4233	VN	-20	3.61	0.004269	±2.5	PASS
Band V	4233	VN	-10	-13.88	-0.016395	±2.5	PASS
Band V	4233	VN	0	3.34	0.003943	±2.5	PASS
Band V	4233	VN	10	-7.33	-0.008657	±2.5	PASS
Band V	4233	VN	20	13.77	0.016265	±2.5	PASS
Band V	4233	VN	30	-11.03	-0.013032	±2.5	PASS
Band V	4233	VN	40	-0.88	-0.001039	±2.5	PASS
Band V	4233	VN	50	14.91	0.017616	±2.5	PASS

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