

# 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	23.58	21.08	33.00	PASS
Band II	9400	23.61	21.11	33.00	PASS
Band II	9538	23.66	21.16	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	25.35	18.20	38.45	PASS
Band V	4182	25.31	18.16	38.45	PASS
Band V	4233	25.34	18.19	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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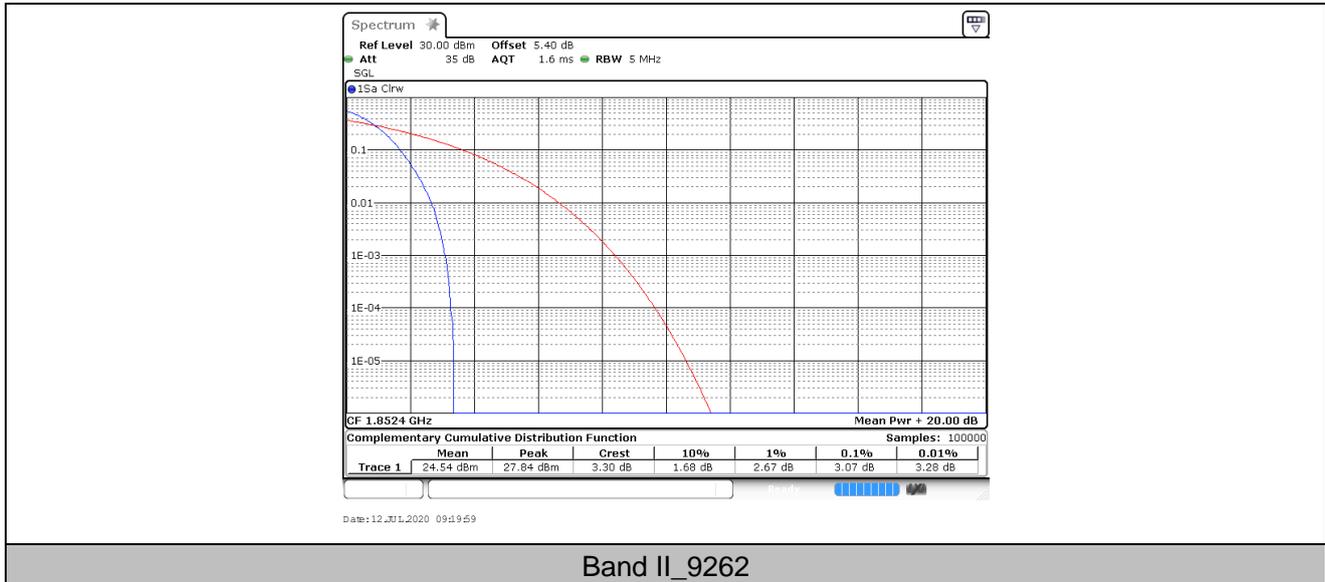
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.07	13	PASS
Band II	9400	3.16	13	PASS
Band II	9538	2.78	13	PASS
Band V	4132	2.67	13	PASS
Band V	4182	2.72	13	PASS
Band V	4233	2.67	13	PASS

### 2.2. Test Plots



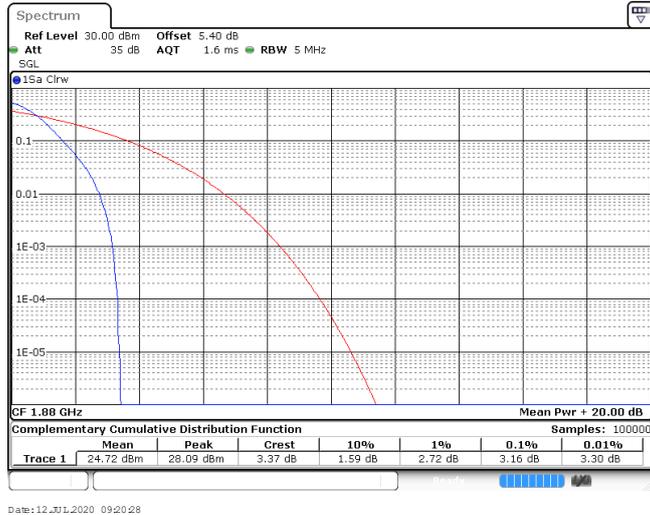
Band II\_9262



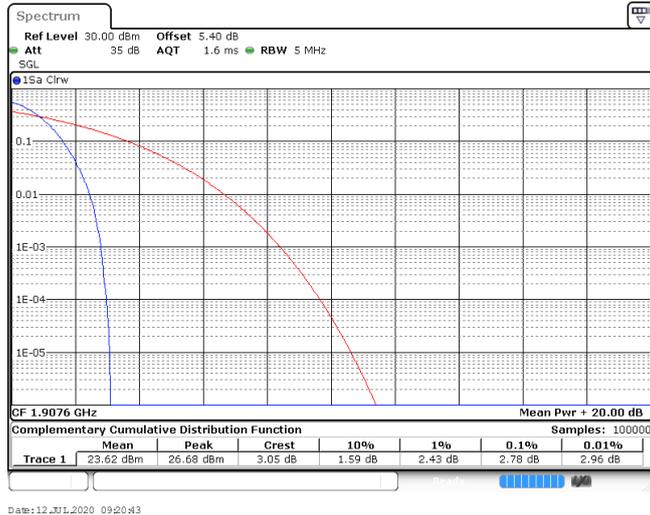
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**Band II\_9400**



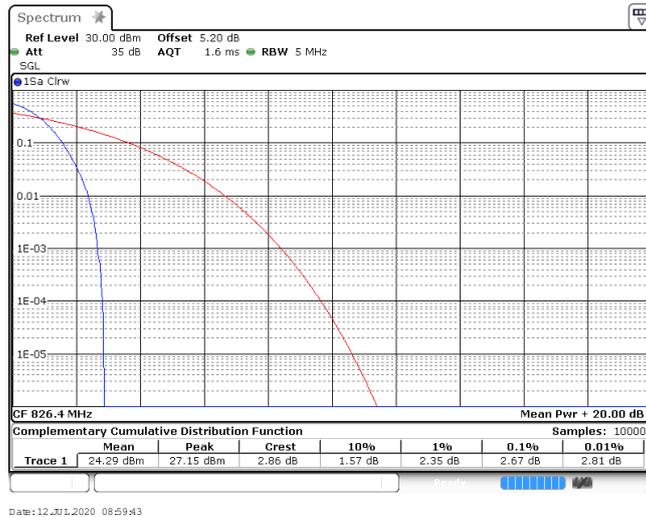
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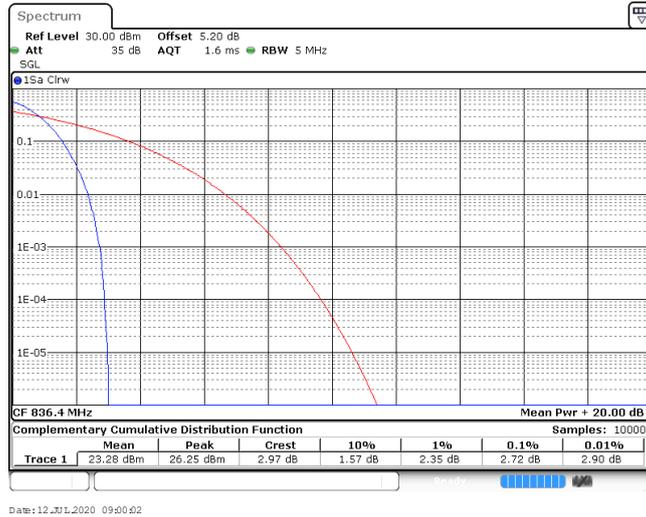
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Date: 12 JUL 2020 08:59:43

**Band V\_4132**



Date: 12 JUL 2020 09:00:02

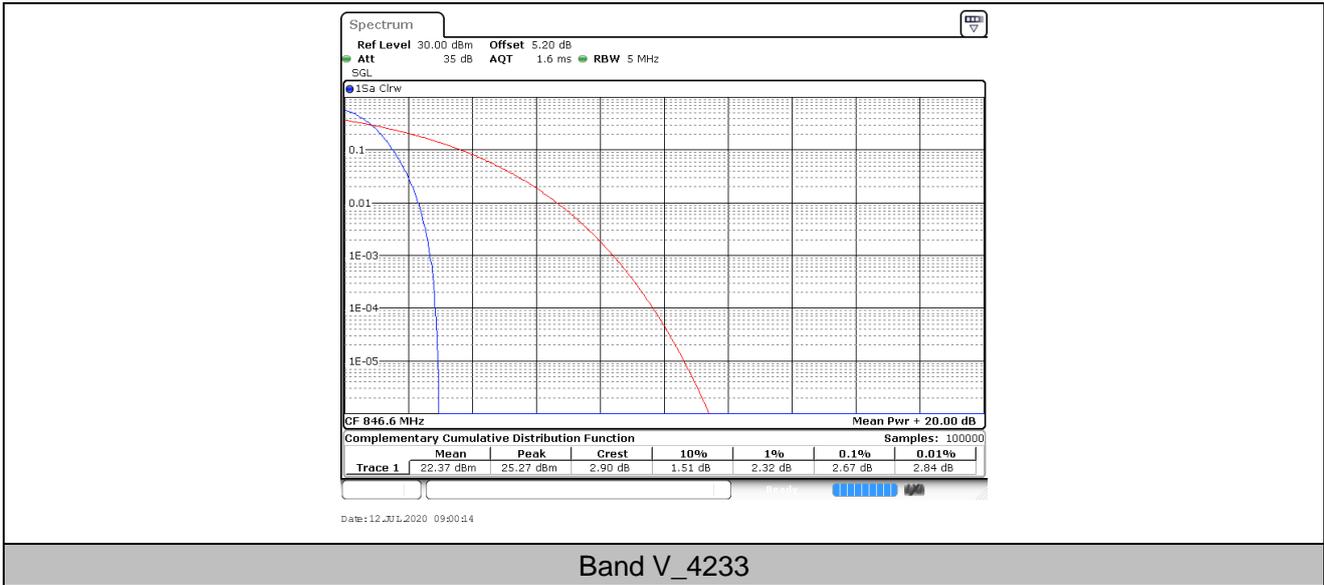
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Band V\_4233



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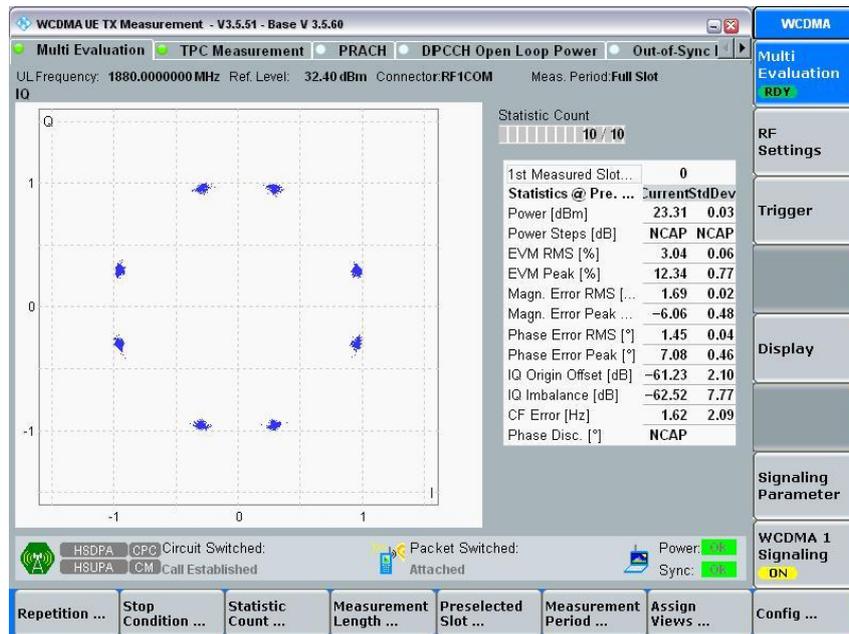
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### 3. Modulation Characteristics

#### 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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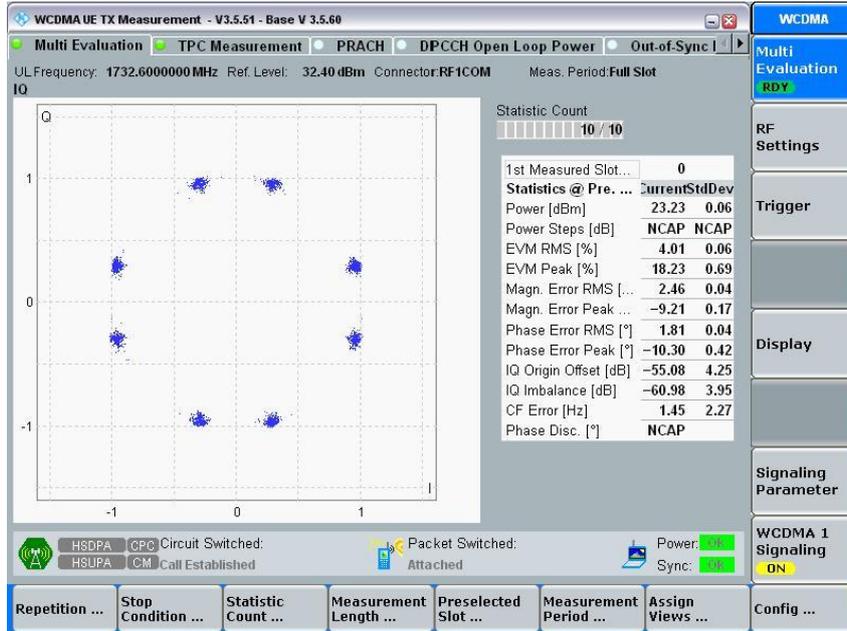
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### 3.2. Test Band = WCDMA Band IV

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

##### 3.2.1.1. Test Channel = MCH



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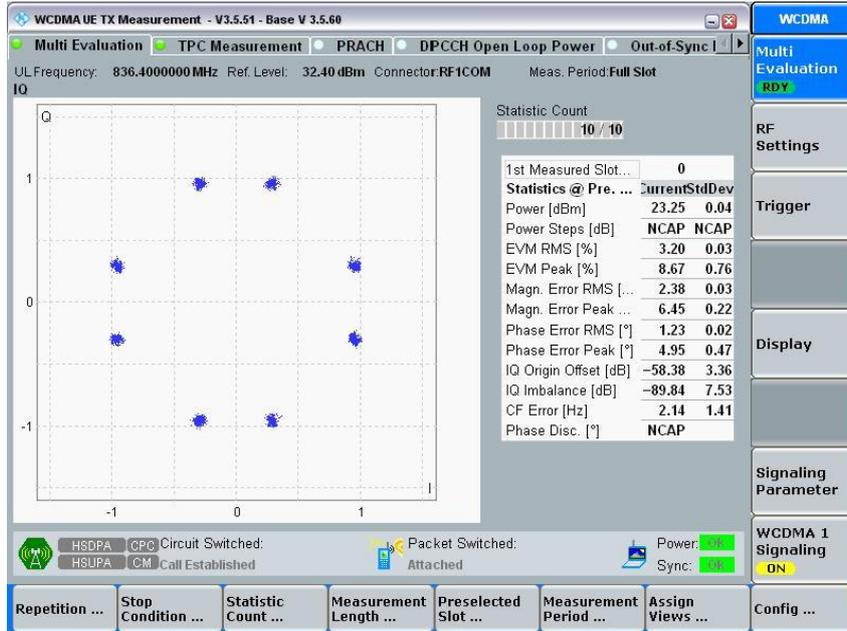
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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



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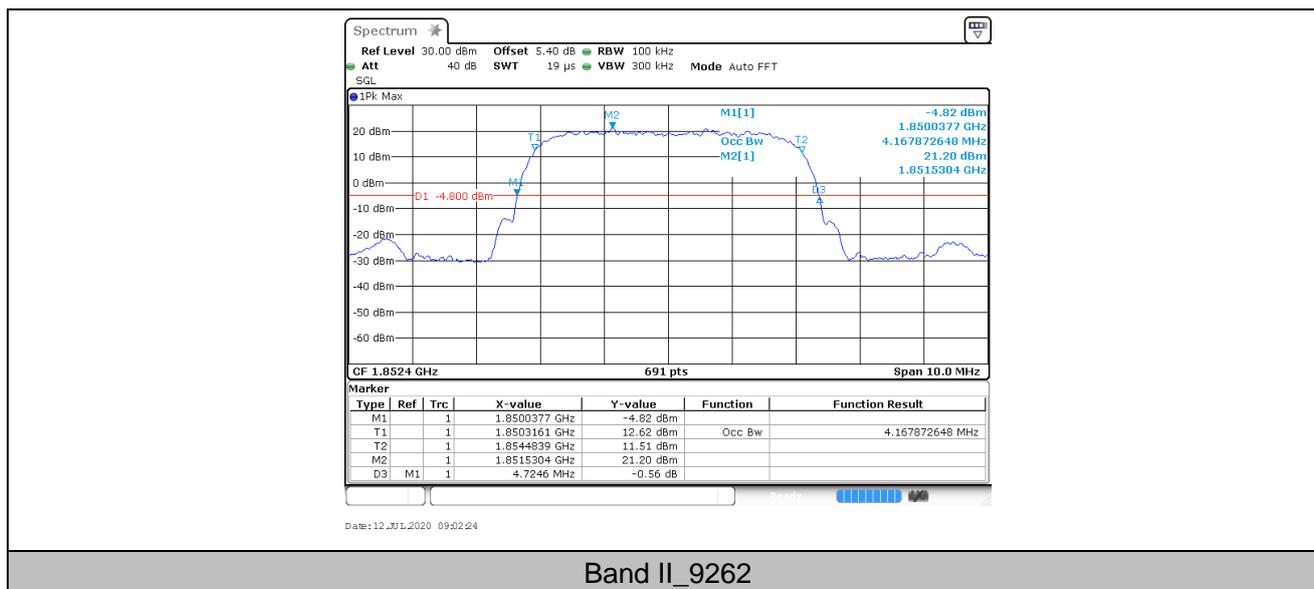
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4725	---	PASS
Band II	9400	4196.8	4739	---	PASS
Band II	9538	4167.9	4754	---	PASS
Band V	4132	4167.9	4768	---	PASS
Band V	4182	4153.4	4754	---	PASS
Band V	4233	4167.9	4754	---	PASS

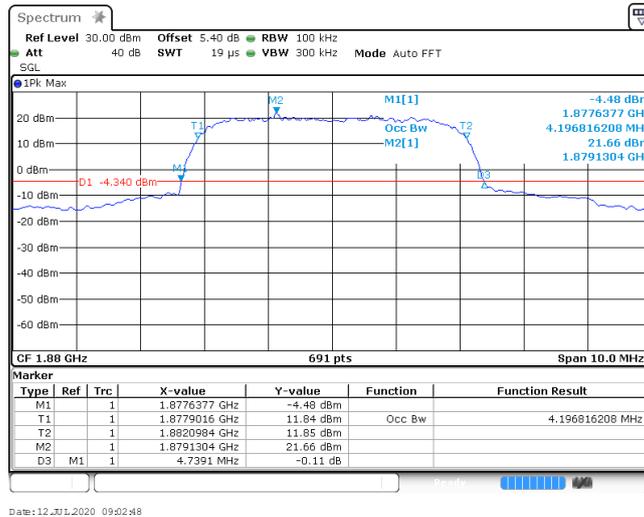
### 4.2. Test Plots



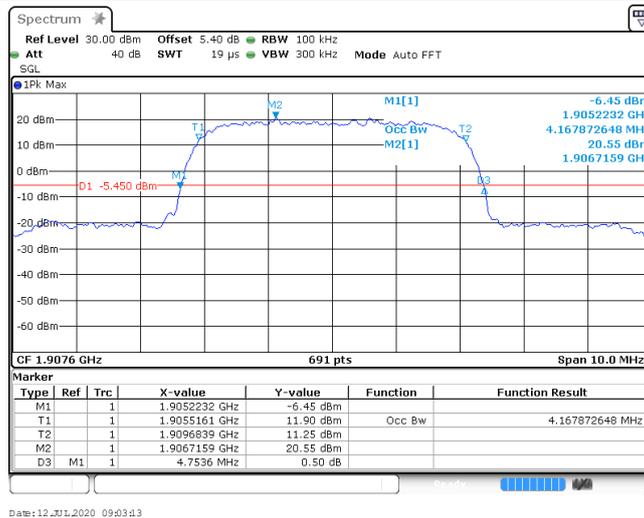
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**Band II\_9400**

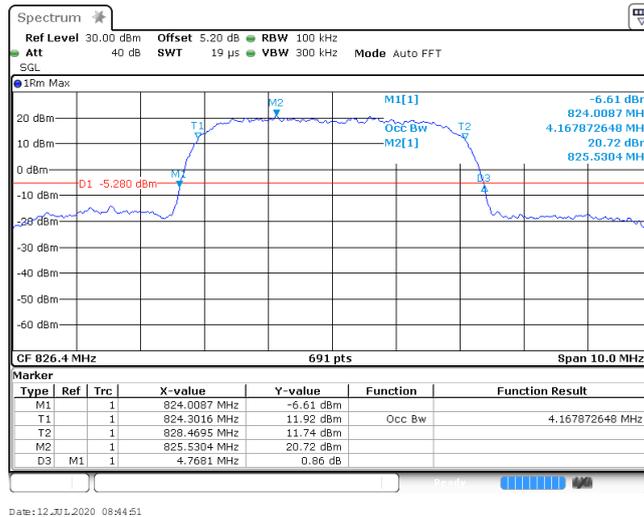


**Band II\_9538**



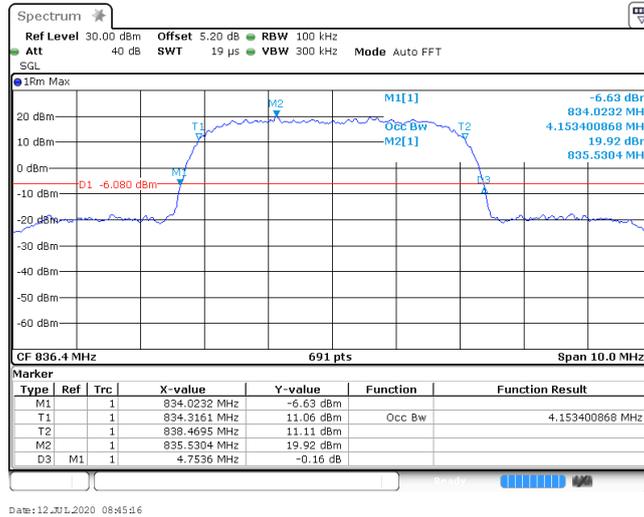
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**Band V\_4132**



Date: 12 JUL 2020 08:45:16

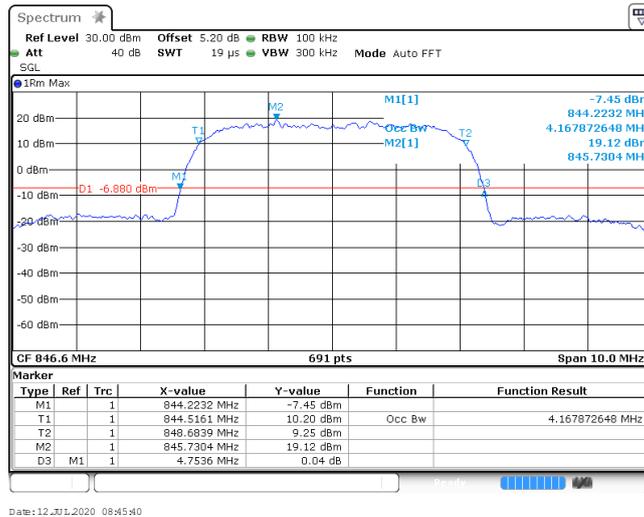
**Band V\_4182**



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Band V\_4233

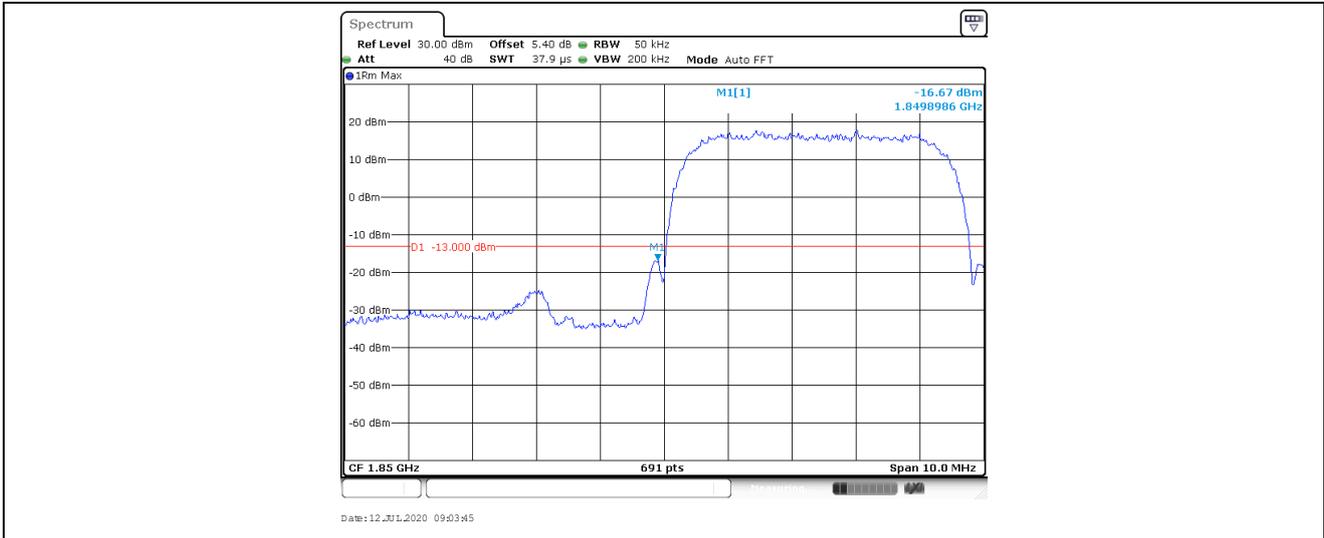


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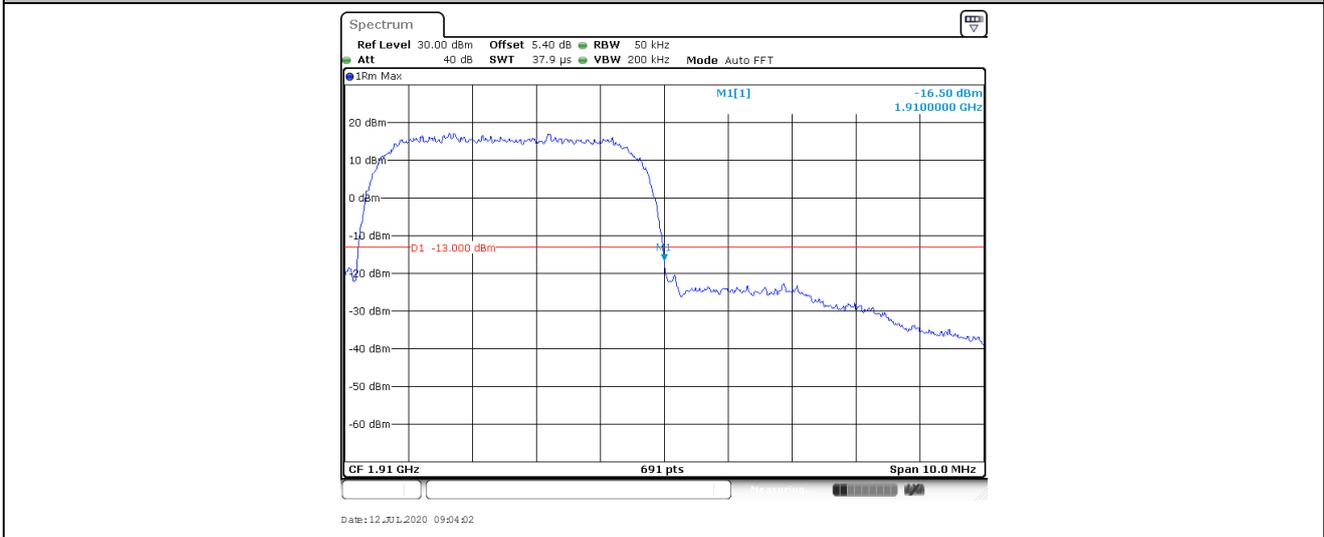
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## 5. Band Edge Compliance

### 5.1. Test Plots

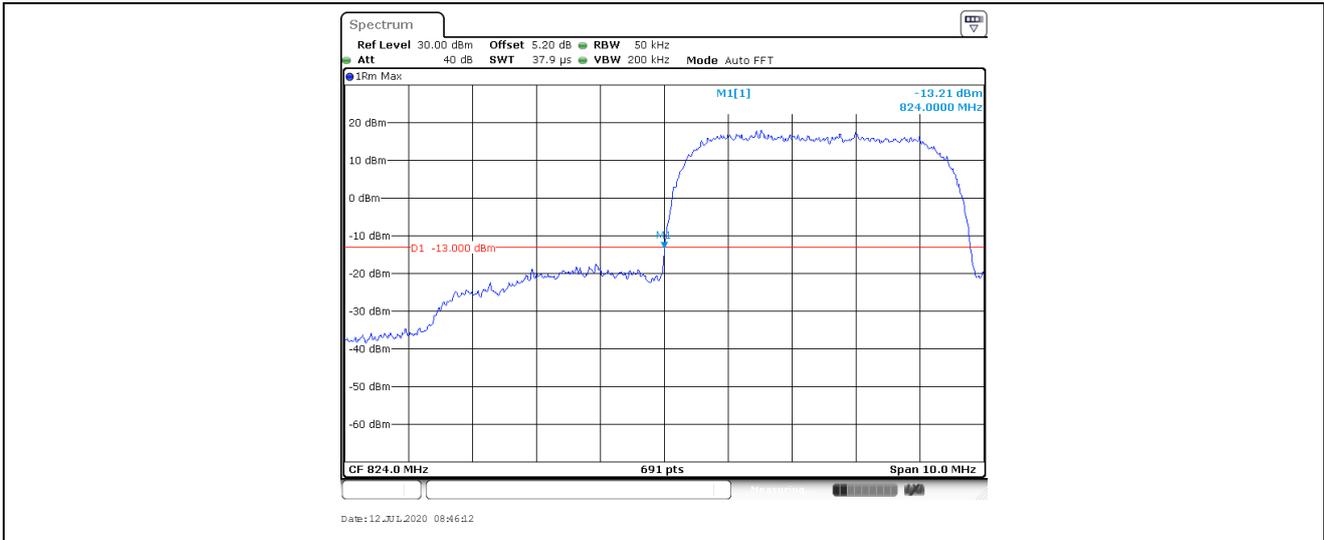


Band II\_9262

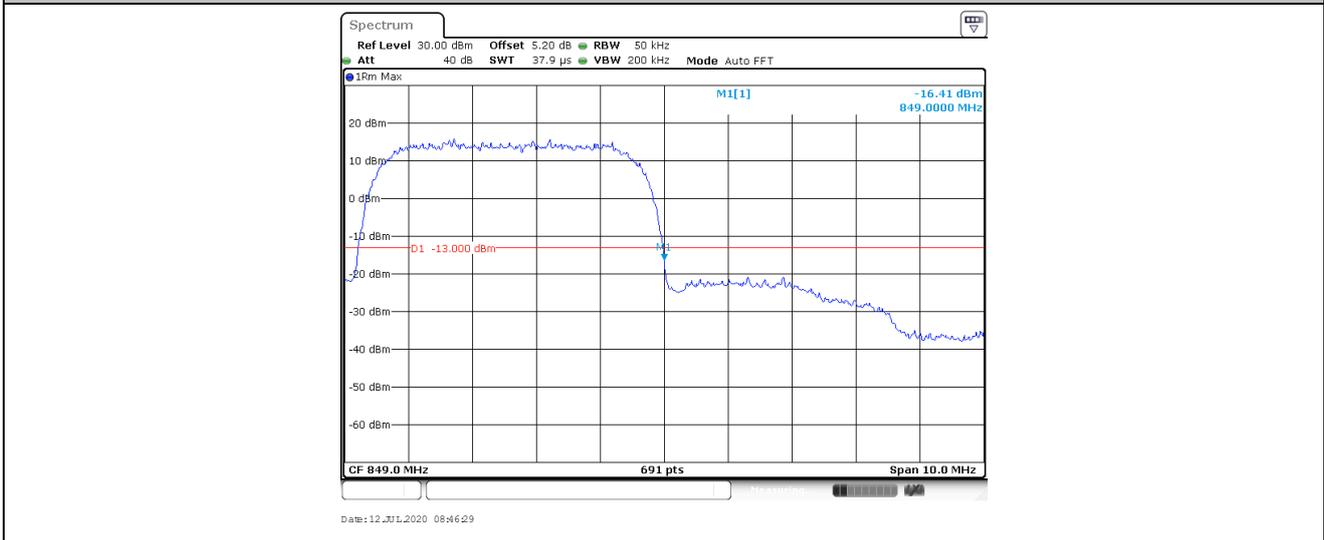


Band II\_9538





**Band V\_4132**



**Band V\_4233**

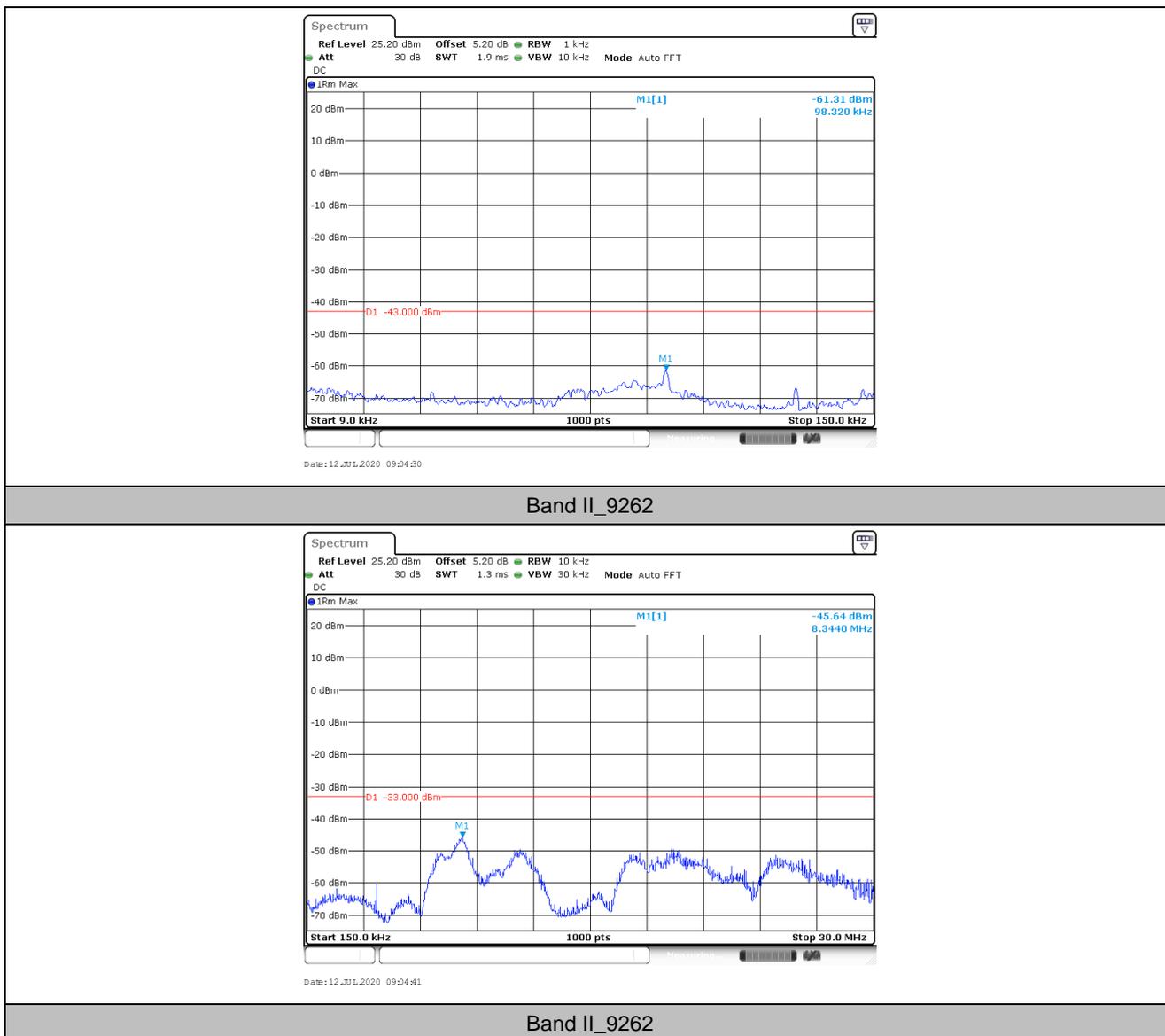


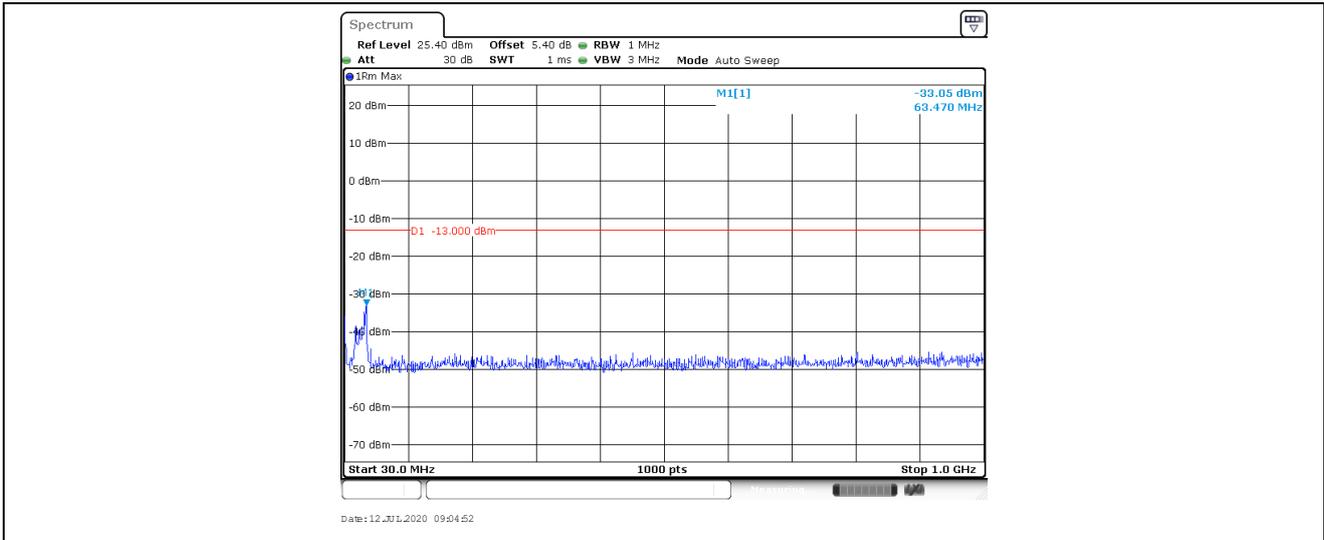
## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

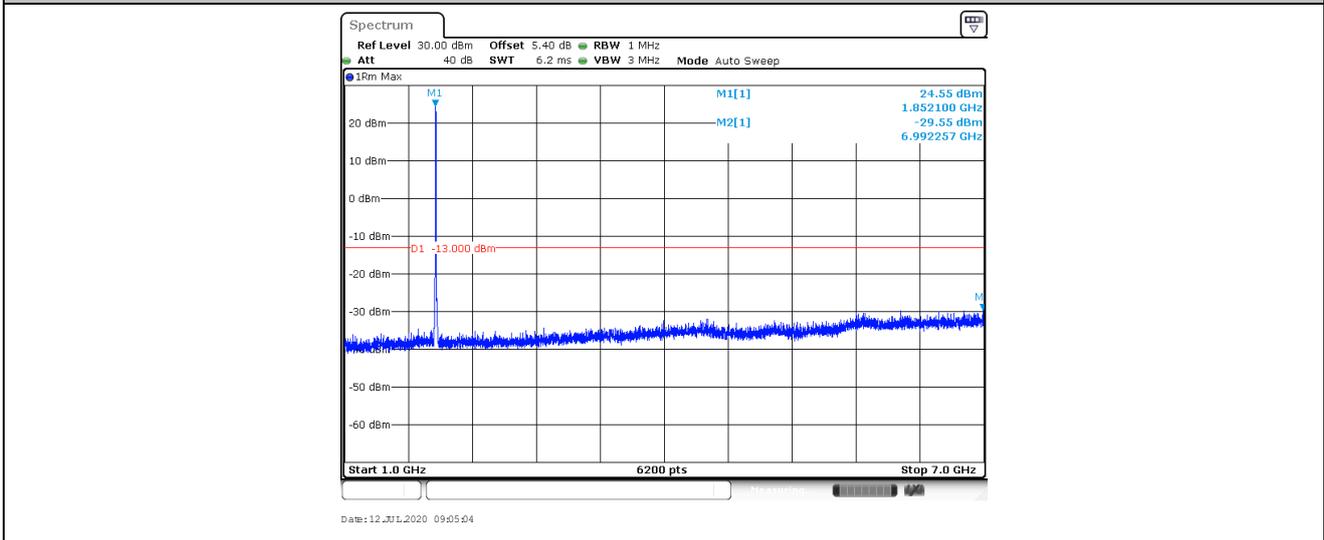
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots





Band II\_9262

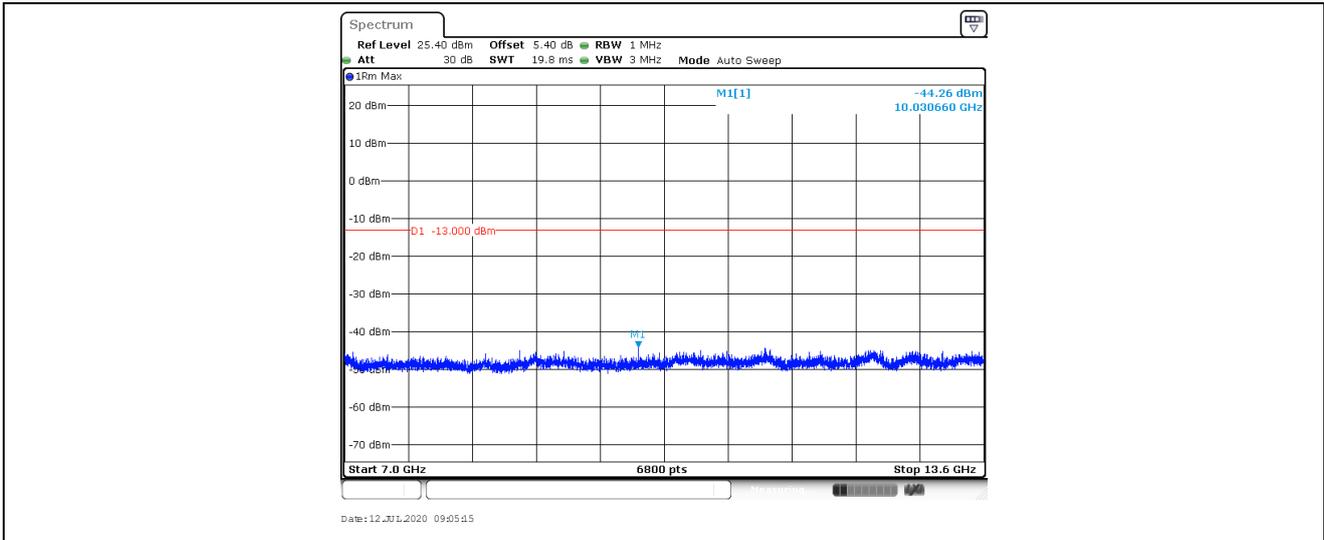


Band II\_9262

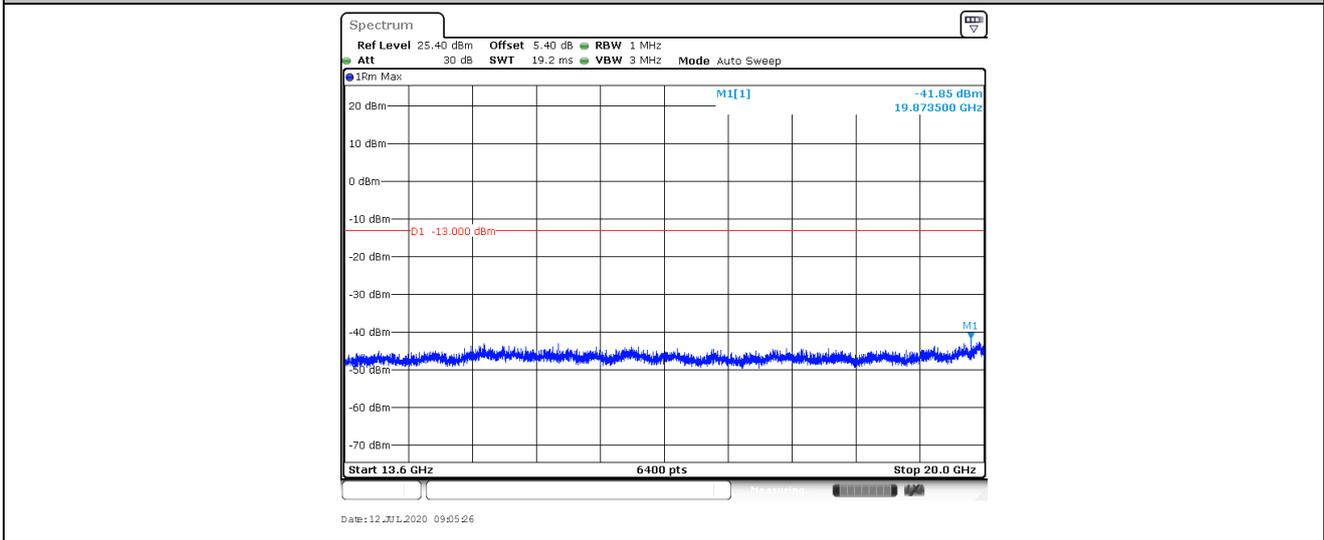


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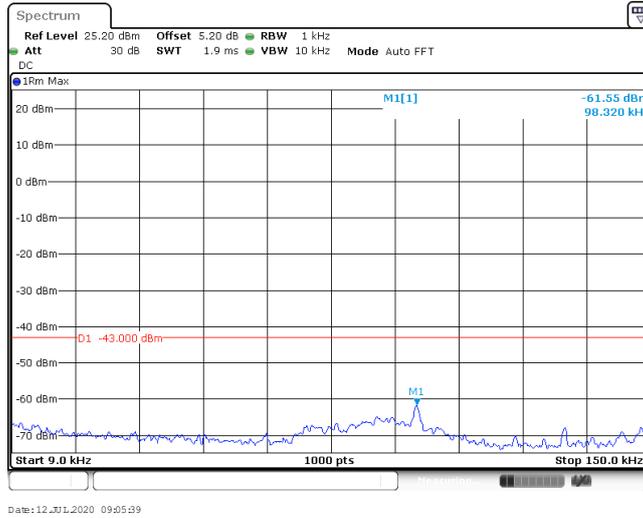


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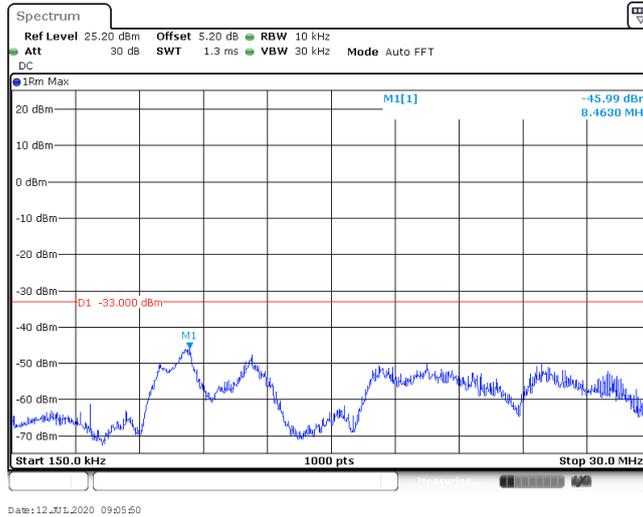


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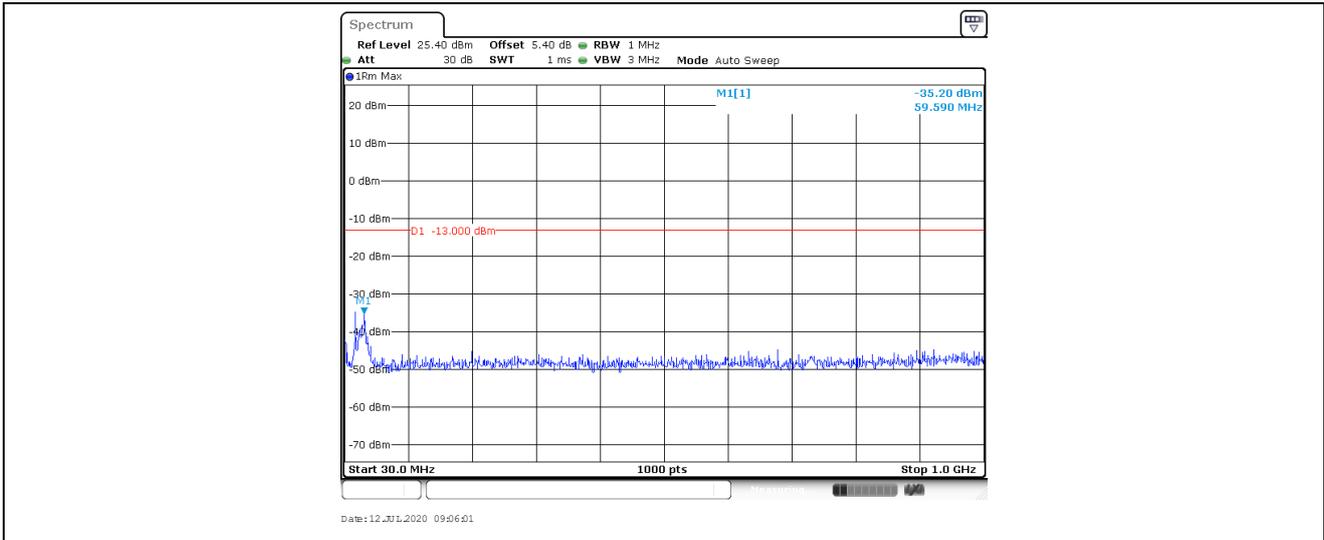


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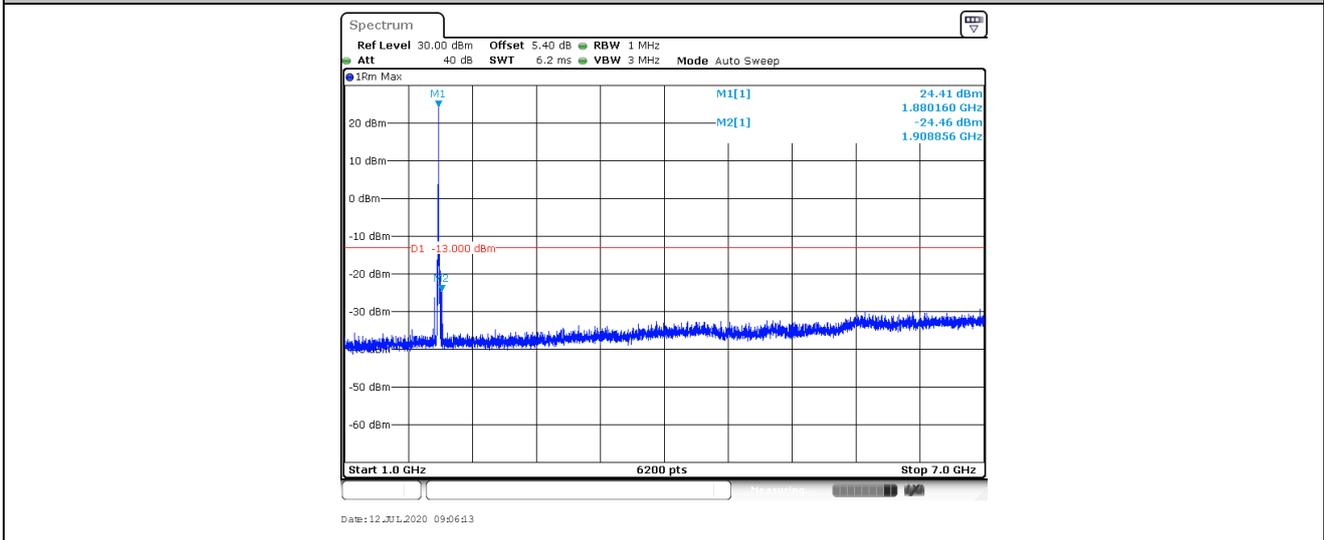


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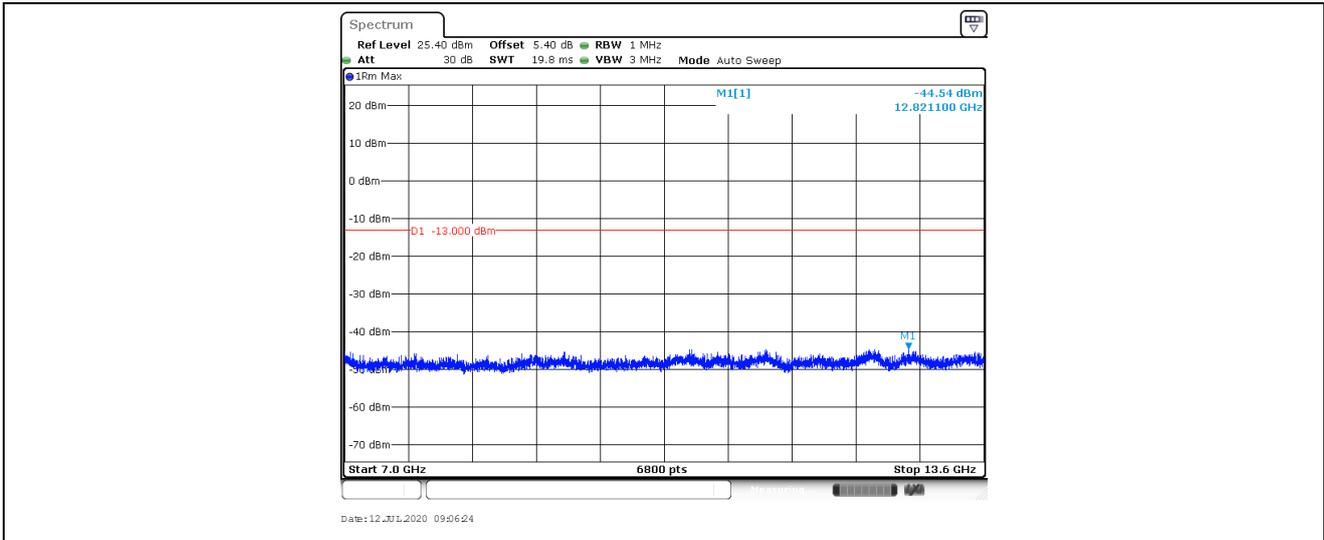
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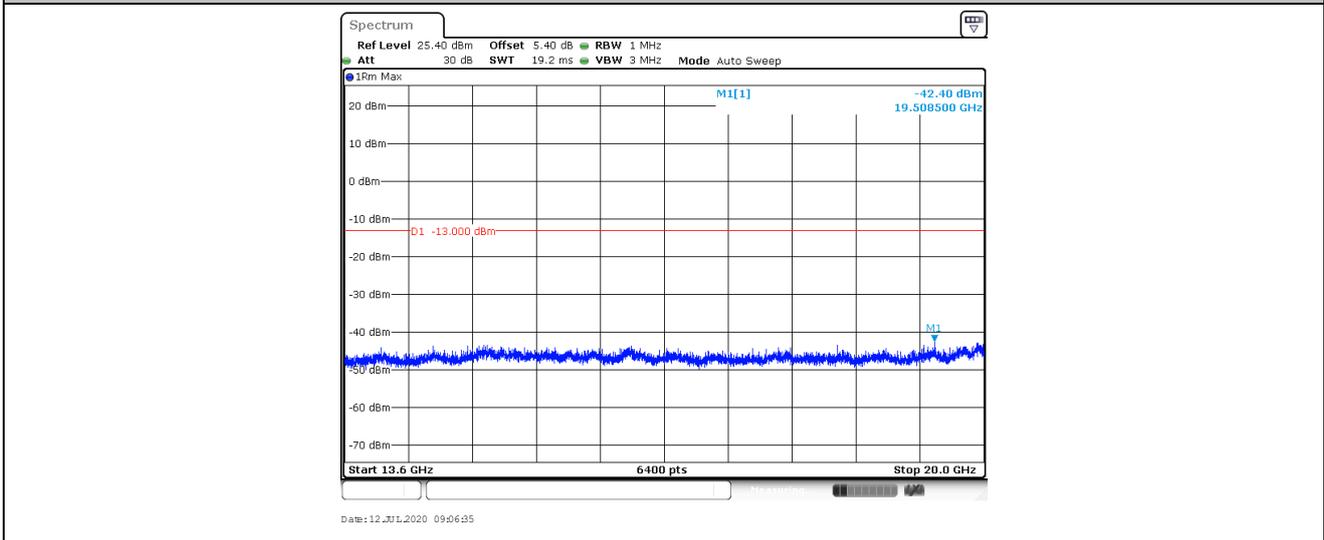
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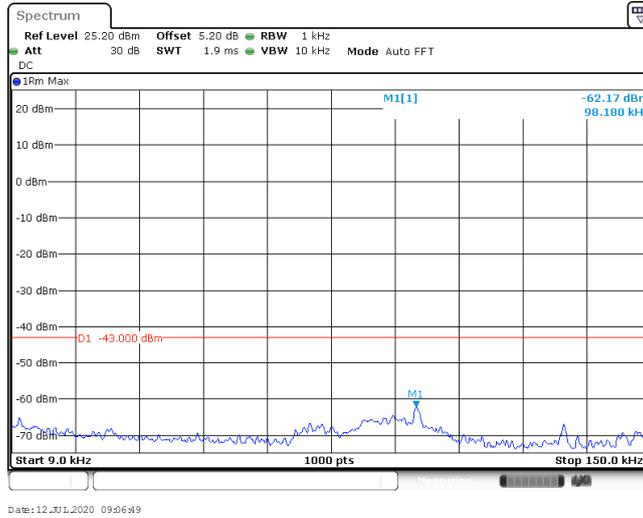


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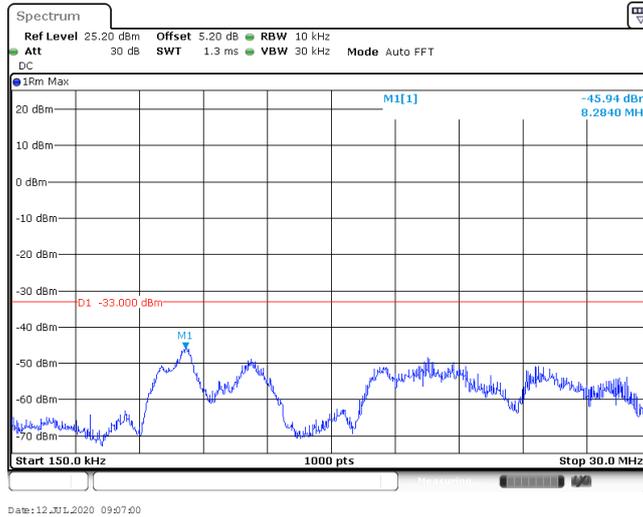


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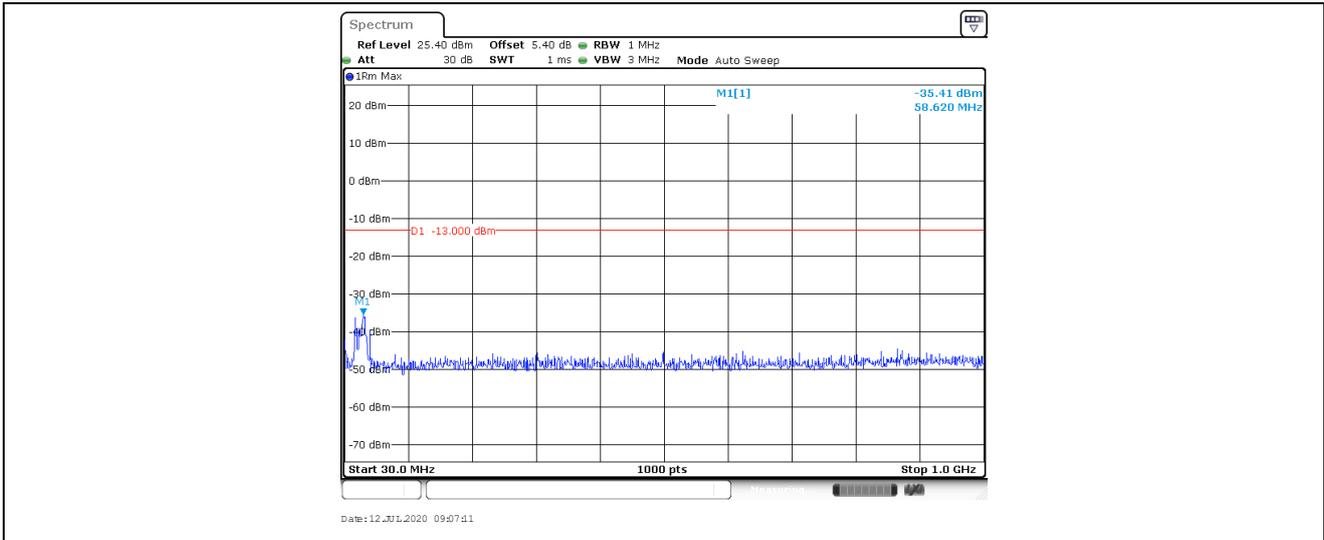


Band II\_9538

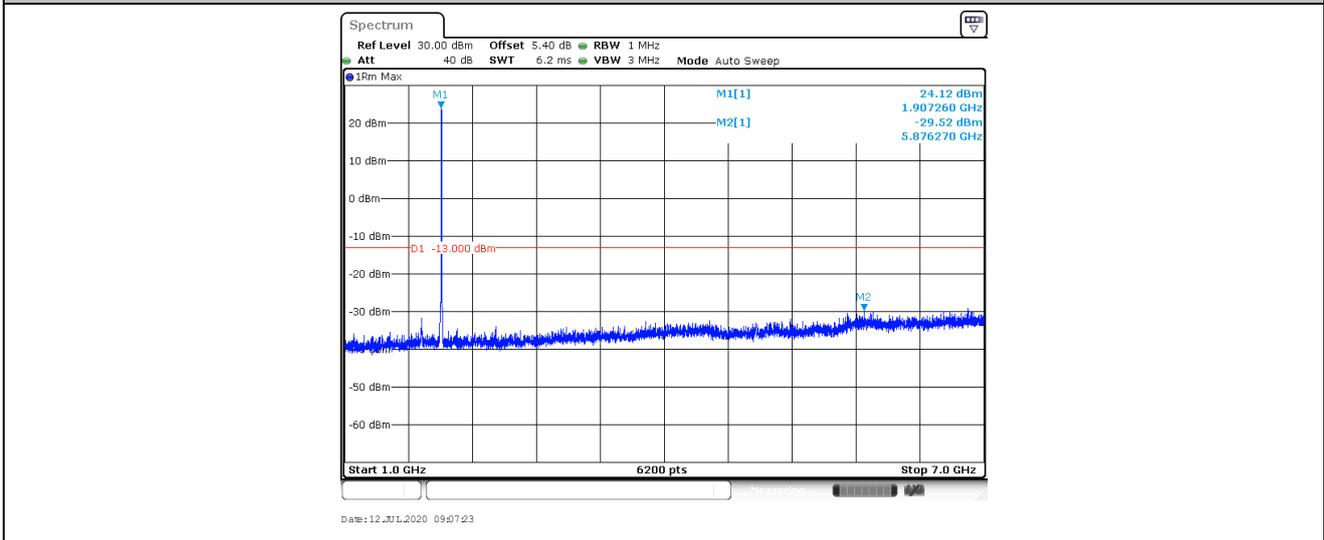


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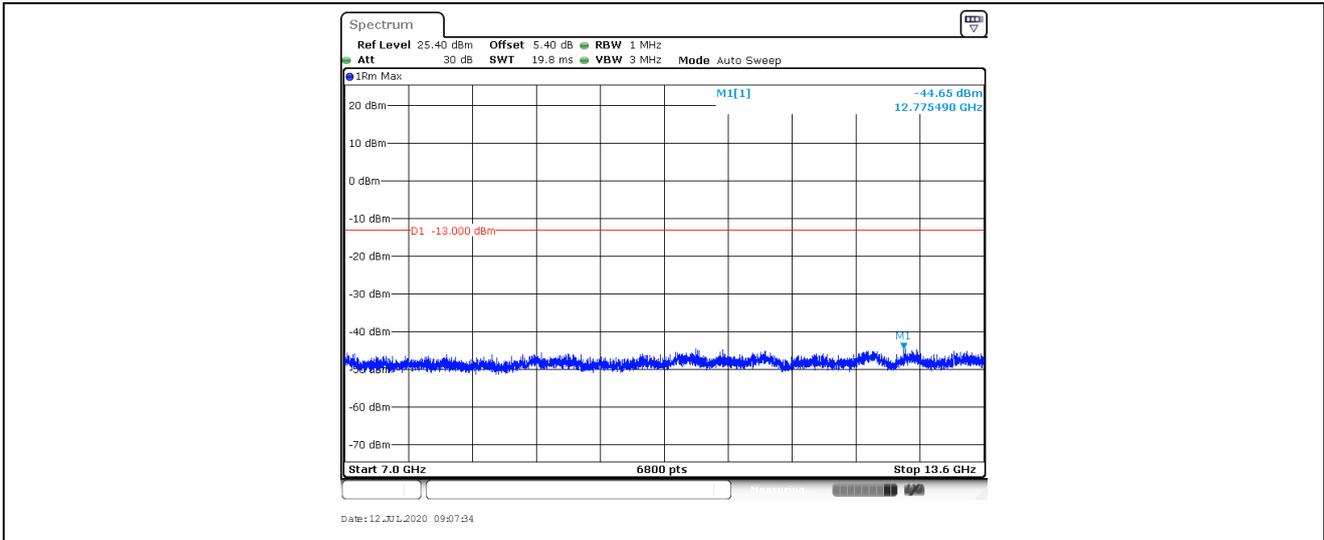


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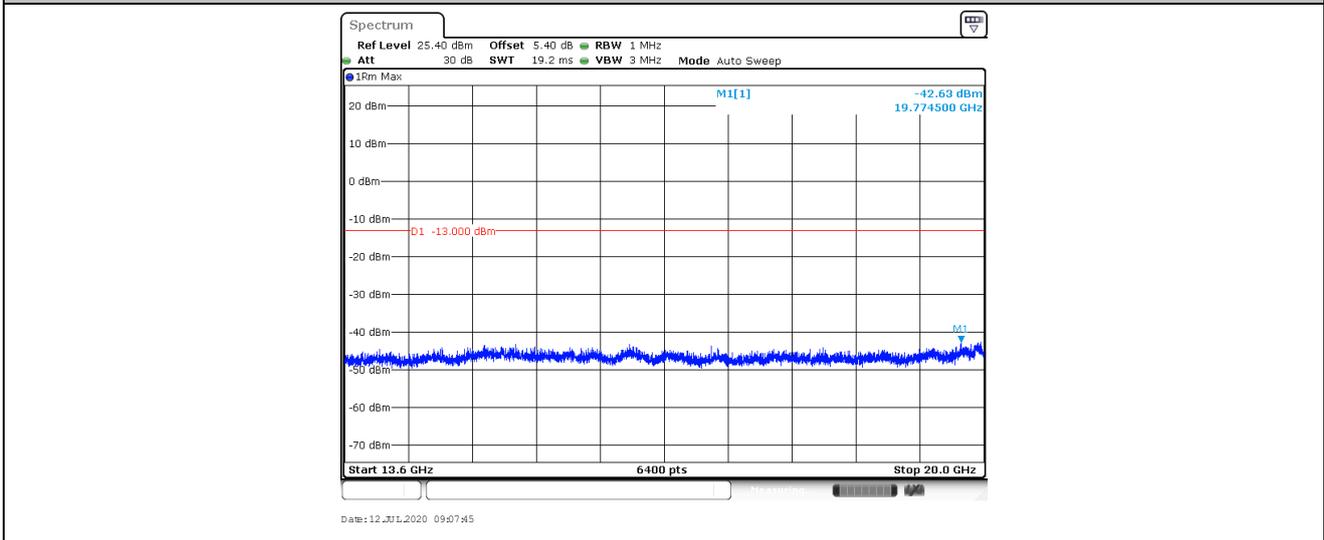


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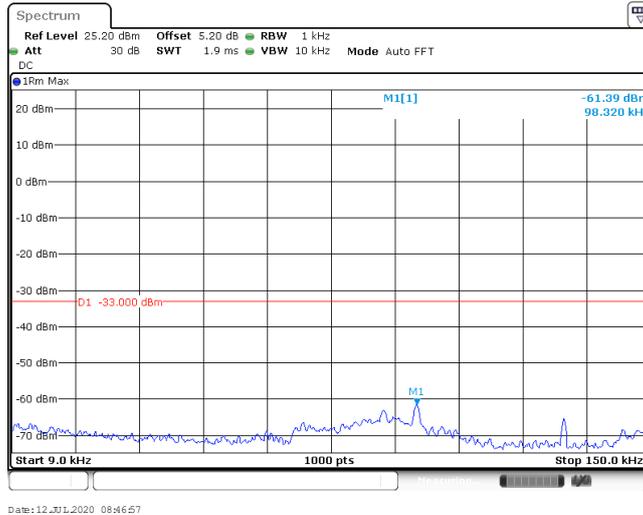


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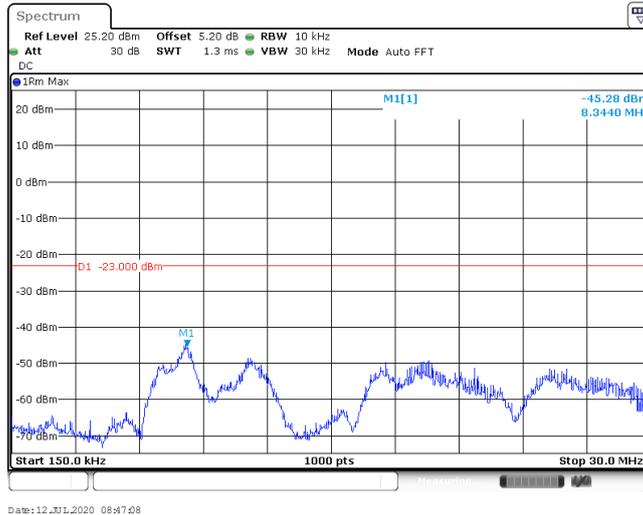


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Band V\_4132

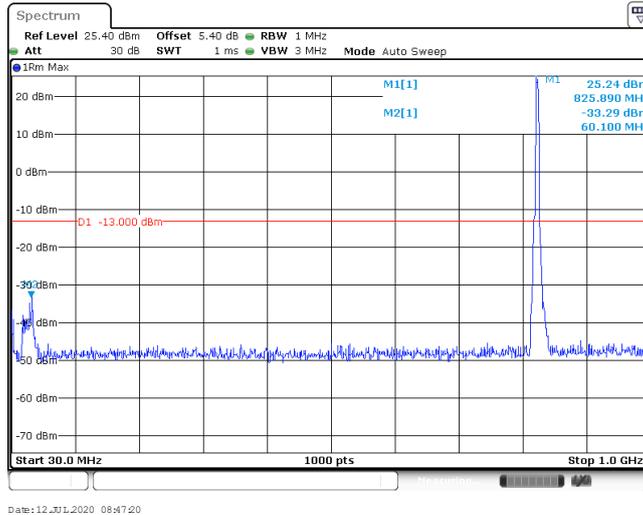


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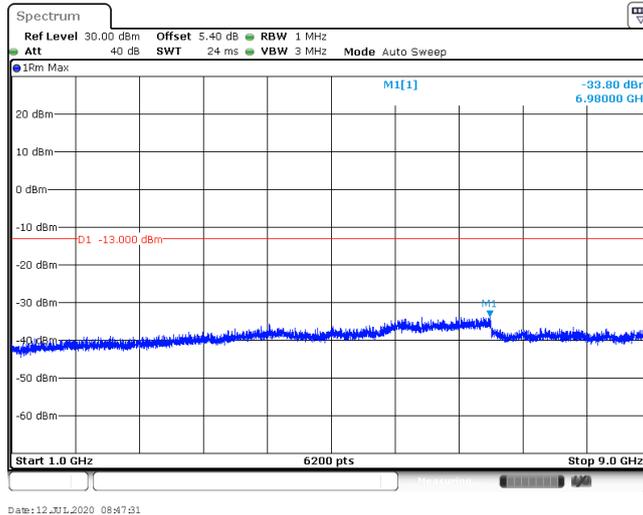


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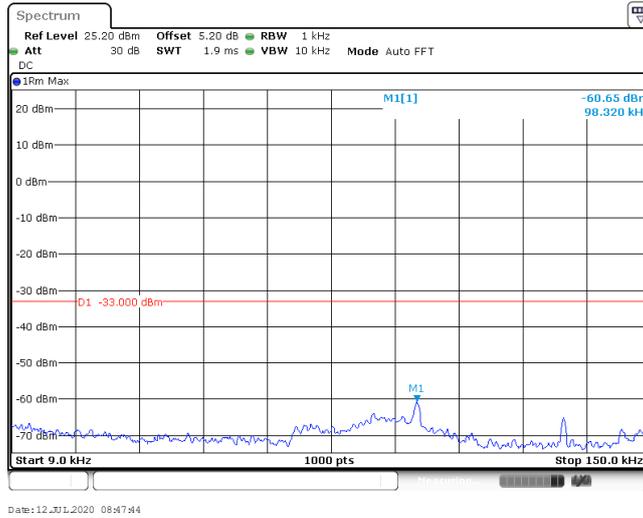
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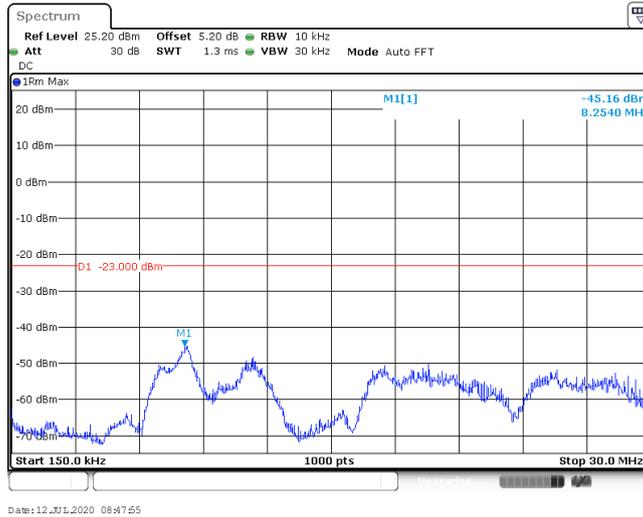
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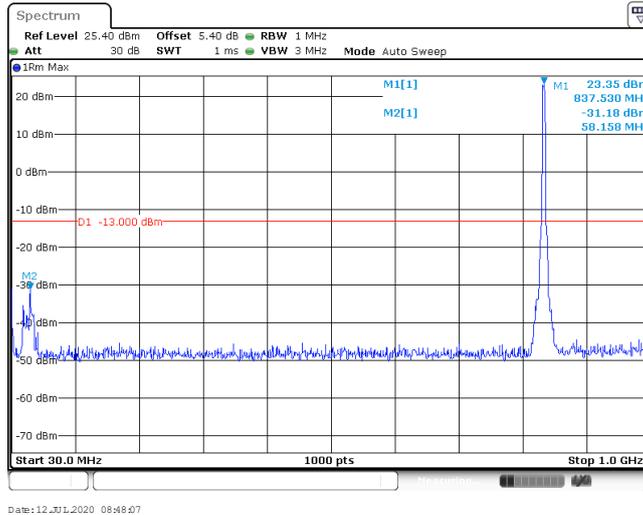


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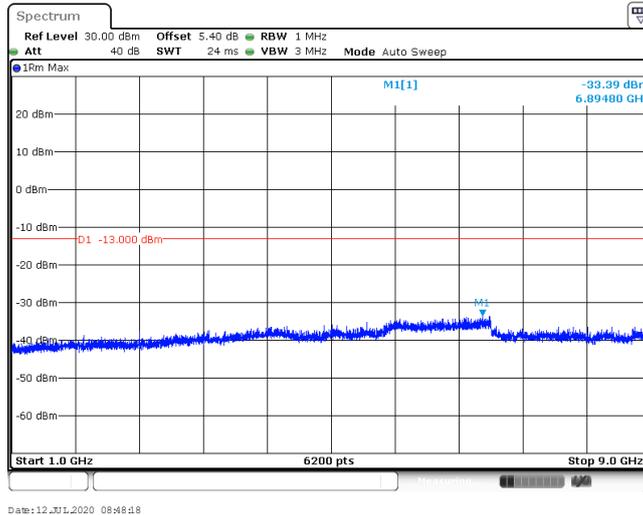


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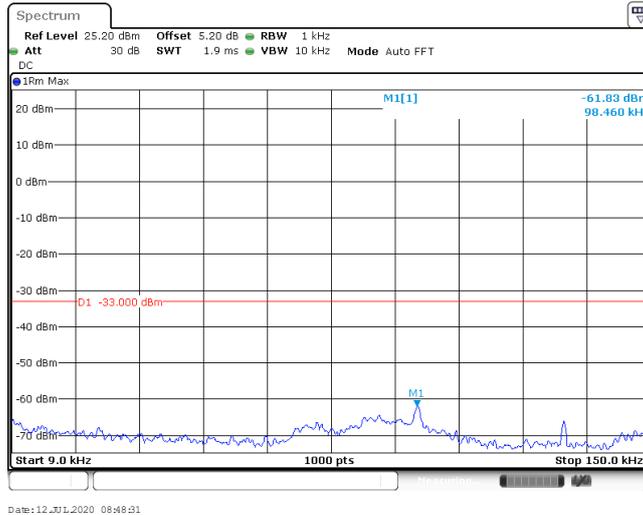
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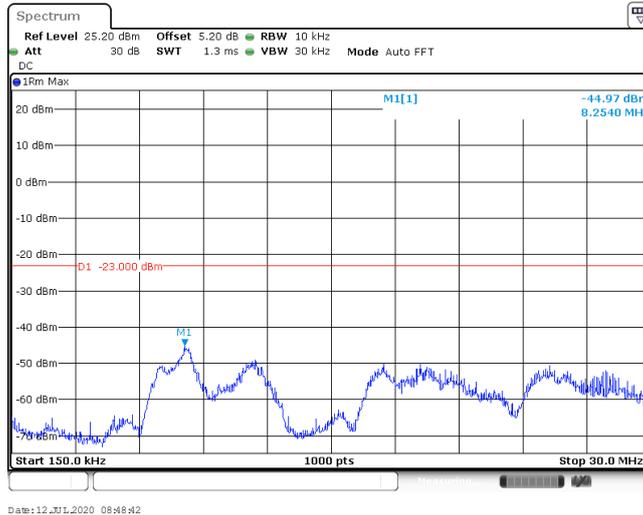
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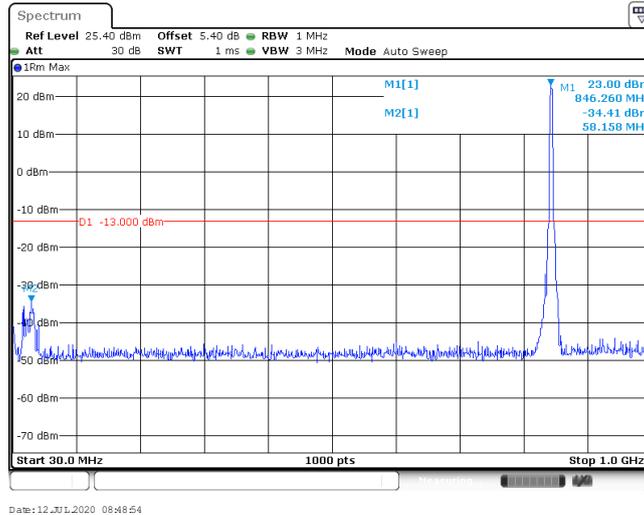
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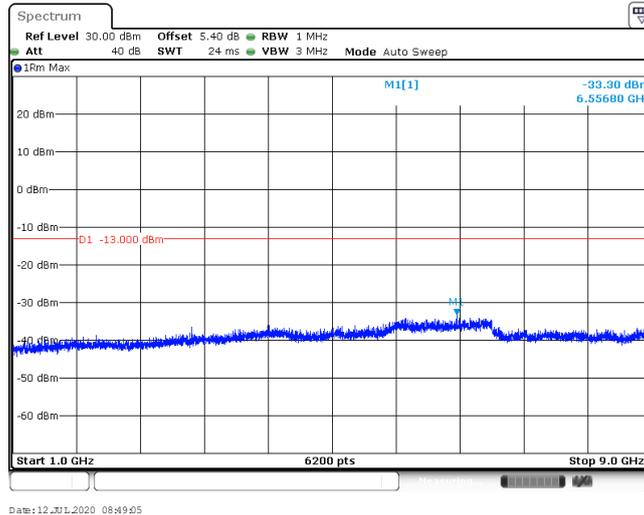
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## 7. Field Strength of Spurious Radiation

### 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
110.1745	-64.67	-13.00	51.67	196	355	Vertical
749.2910	-62.02	-13.00	49.02	162	355	Vertical
2695.9392	-36.49	-13.00	23.49	342	35	Vertical
3702.5234	-57.71	-13.00	44.71	221	196	Vertical
14494.3831	-47.07	-13.00	34.07	176	164	Vertical
17991.4997	-39.57	-13.00	26.57	244	100	Vertical
41.8346	-64.58	-13.00	51.58	223	323	Horizontal
681.7756	-62.98	-13.00	49.98	284	163	Horizontal
2699.5399	-35.62	-13.00	22.62	186	1	Horizontal
3703.0234	-58.38	-13.00	45.38	195	67	Horizontal
16392.9464	-43.33	-13.00	30.33	242	195	Horizontal
17999.5000	-43.77	-13.00	30.77	228	163	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
110.6110	-65.13	-13.00	52.13	176	194	Vertical
2693.5387	-36.67	-13.00	23.67	245	148	Vertical
3762.0254	-57.68	-13.00	44.68	142	194	Vertical
5637.0879	-59.58	-13.00	46.58	166	352	Vertical
14686.3895	-47.09	-13.00	34.09	173	130	Vertical
17997.9999	-39.66	-13.00	26.66	198	67	Vertical
44.5992	-63.31	-13.00	50.31	116	162	Horizontal
2697.9396	-35.47	-13.00	22.47	254	334	Horizontal
3758.0253	-57.64	-13.00	44.64	227	67	Horizontal
5641.5881	-60.28	-13.00	47.28	296	162	Horizontal
16391.4464	-43.07	-13.00	30.07	172	162	Horizontal
17990.9997	-44.26	-13.00	31.26	112	289	Horizontal

**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
108.0404	-65.50	-13.00	52.50	166	195	Vertical
2714.7429	-36.67	-13.00	23.67	173	80	Vertical
3813.5271	-57.44	-13.00	44.44	244	67	Vertical
5725.0908	-59.05	-13.00	46.05	296	99	Vertical
14483.8828	-47.01	-13.00	34.01	237	291	Vertical
17994.4998	-39.32	-13.00	26.32	288	291	Vertical
41.7861	-63.96	-13.00	50.96	186	323	Horizontal
582.4911	-63.96	-13.00	50.96	146	67	Horizontal
2702.3405	-35.32	-13.00	22.32	242	157	Horizontal
3816.5272	-58.45	-13.00	45.45	223	226	Horizontal
5719.5907	-58.82	-13.00	45.82	284	226	Horizontal
16389.4463	-43.06	-13.00	30.06	187	131	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
110.3200	-64.85	-13.00	51.85	252	227	Vertical
581.3271	-64.77	-13.00	51.77	266	4	Vertical
1654.1308	-60.80	-13.00	47.80	273	176	Vertical
2480.2961	-53.31	-13.00	40.31	174	106	Vertical
14457.8819	-47.47	-13.00	34.47	125	291	Vertical
17999.0000	-39.44	-13.00	26.44	196	99	Vertical
43.0472	-64.29	-13.00	51.29	166	227	Horizontal
540.6820	-65.12	-13.00	52.12	173	259	Horizontal
1654.1308	-60.02	-13.00	47.02	245	152	Horizontal
2479.8960	-50.93	-13.00	37.93	178	100	Horizontal
16392.9464	-43.25	-13.00	30.25	122	131	Horizontal
17999.5000	-44.26	-13.00	31.26	174	131	Horizontal



**7.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.6966	-64.79	-13.00	51.79	117	355	Vertical
600.0975	-63.79	-13.00	50.79	163	100	Vertical
2701.5403	-51.96	-13.00	38.96	128	91	Vertical
7456.6486	-55.53	-13.00	42.53	228	36	Vertical
14520.8840	-47.31	-13.00	34.31	269	355	Vertical
17997.4999	-39.52	-13.00	26.52	172	4	Vertical
43.9202	-64.24	-13.00	51.24	178	163	Horizontal
509.3495	-65.23	-13.00	52.23	145	163	Horizontal
2701.5403	-50.85	-13.00	37.85	222	92	Horizontal
7468.1489	-56.09	-13.00	43.09	175	99	Horizontal
16399.9467	-43.36	-13.00	30.36	219	259	Horizontal
17997.4999	-44.05	-13.00	31.05	266	35	Horizontal

**7.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.2715	-65.02	-13.00	52.02	196	337	Vertical
586.9533	-64.79	-13.00	51.79	166	4	Vertical
2694.7389	-52.08	-13.00	39.08	132	224	Vertical
7454.6485	-55.76	-13.00	42.76	284	206	Vertical
14497.3832	-46.95	-13.00	33.95	255	305	Vertical
17999.5000	-39.62	-13.00	26.62	276	337	Vertical
41.4951	-64.01	-13.00	51.01	169	4	Horizontal
539.7605	-64.57	-13.00	51.57	143	36	Horizontal
2700.3401	-50.71	-13.00	37.71	112	30	Horizontal
7484.6495	-55.72	-13.00	42.72	138	195	Horizontal
16392.4464	-43.10	-13.00	30.10	252	67	Horizontal
17999.5000	-43.92	-13.00	30.92	288	291	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.



## 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	5.23	0.002823	±2.5	PASS
Band II	9262	VN	TN	-12.96	-0.006994	±2.5	PASS
Band II	9262	VH	TN	3.99	0.002155	±2.5	PASS
Band II	9400	VL	TN	10.26	0.005458	±2.5	PASS
Band II	9400	VN	TN	-12.99	-0.006911	±2.5	PASS
Band II	9400	VH	TN	7.76	0.004127	±2.5	PASS
Band II	9538	VL	TN	14.55	0.007630	±2.5	PASS
Band II	9538	VN	TN	0.27	0.000143	±2.5	PASS
Band II	9538	VH	TN	7.57	0.003969	±2.5	PASS
Band V	4132	VL	TN	-2.08	-0.002511	±2.5	PASS
Band V	4132	VN	TN	-13.64	-0.016504	±2.5	PASS
Band V	4132	VH	TN	0.16	0.000198	±2.5	PASS
Band V	4182	VL	TN	-3.03	-0.003619	±2.5	PASS
Band V	4182	VN	TN	9.20	0.010995	±2.5	PASS
Band V	4182	VH	TN	3.52	0.004203	±2.5	PASS
Band V	4233	VL	TN	7.93	0.009361	±2.5	PASS
Band V	4233	VN	TN	14.22	0.016797	±2.5	PASS
Band V	4233	VH	TN	8.71	0.010284	±2.5	PASS

### 8.2. Frequency Vs Temperature

BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	2.63	0.001420	±2.5	PASS
Band II	9262	VN	-20	5.77	0.003116	±2.5	PASS
Band II	9262	VN	-10	1.56	0.000842	±2.5	PASS
Band II	9262	VN	0	14.80	0.007988	±2.5	PASS
Band II	9262	VN	10	3.52	0.001901	±2.5	PASS
Band II	9262	VN	20	-7.70	-0.004155	±2.5	PASS



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Band II	9262	VN	30	-10.82	-0.005843	±2.5	PASS
Band II	9262	VN	40	7.43	0.004009	±2.5	PASS
Band II	9262	VN	50	6.57	0.003548	±2.5	PASS
Band II	9400	VN	-30	9.70	0.005158	±2.5	PASS
Band II	9400	VN	-20	4.29	0.002282	±2.5	PASS
Band II	9400	VN	-10	0.45	0.000238	±2.5	PASS
Band II	9400	VN	0	1.54	0.000817	±2.5	PASS
Band II	9400	VN	10	-11.34	-0.006034	±2.5	PASS
Band II	9400	VN	20	6.71	0.003569	±2.5	PASS
Band II	9400	VN	30	-2.14	-0.001139	±2.5	PASS
Band II	9400	VN	40	-0.73	-0.000389	±2.5	PASS
Band II	9400	VN	50	-6.75	-0.003593	±2.5	PASS
Band II	9538	VN	-30	5.35	0.002804	±2.5	PASS
Band II	9538	VN	-20	-10.67	-0.005595	±2.5	PASS
Band II	9538	VN	-10	12.41	0.006503	±2.5	PASS
Band II	9538	VN	0	-12.36	-0.006481	±2.5	PASS
Band II	9538	VN	10	14.48	0.007591	±2.5	PASS
Band II	9538	VN	20	9.40	0.004930	±2.5	PASS
Band II	9538	VN	30	-14.47	-0.007586	±2.5	PASS
Band II	9538	VN	40	4.21	0.002205	±2.5	PASS
Band II	9538	VN	50	-10.82	-0.005673	±2.5	PASS
Band V	4132	VN	-30	-6.59	-0.007974	±2.5	PASS
Band V	4132	VN	-20	6.22	0.007527	±2.5	PASS
Band V	4132	VN	-10	3.06	0.003699	±2.5	PASS
Band V	4132	VN	0	4.99	0.006035	±2.5	PASS
Band V	4132	VN	10	5.86	0.007094	±2.5	PASS
Band V	4132	VN	20	0.35	0.000426	±2.5	PASS
Band V	4132	VN	30	-9.53	-0.011530	±2.5	PASS
Band V	4132	VN	40	10.85	0.013127	±2.5	PASS
Band V	4132	VN	50	-9.99	-0.012094	±2.5	PASS
Band V	4182	VN	-30	-3.70	-0.004429	±2.5	PASS
Band V	4182	VN	-20	6.63	0.007926	±2.5	PASS
Band V	4182	VN	-10	-4.23	-0.005060	±2.5	PASS
Band V	4182	VN	0	-2.07	-0.002474	±2.5	PASS
Band V	4182	VN	10	13.57	0.016227	±2.5	PASS
Band V	4182	VN	20	6.29	0.007518	±2.5	PASS
Band V	4182	VN	30	-9.74	-0.011649	±2.5	PASS



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Band V	4182	VN	40	-9.08	-0.010857	±2.5	PASS
Band V	4182	VN	50	-14.88	-0.017787	±2.5	PASS
Band V	4233	VN	-30	10.98	0.012969	±2.5	PASS
Band V	4233	VN	-20	-1.67	-0.001972	±2.5	PASS
Band V	4233	VN	-10	3.32	0.003927	±2.5	PASS
Band V	4233	VN	0	9.00	0.010628	±2.5	PASS
Band V	4233	VN	10	-1.58	-0.001864	±2.5	PASS
Band V	4233	VN	20	9.48	0.011200	±2.5	PASS
Band V	4233	VN	30	0.42	0.000493	±2.5	PASS
Band V	4233	VN	40	7.64	0.009019	±2.5	PASS
Band V	4233	VN	50	6.85	0.008087	±2.5	PASS

The End



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