

# 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	22.8	23.49	33.00	PASS
Band II	9400	22.98	23.67	33.00	PASS
Band II	9538	22.96	23.65	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.38	20.51	38.45	PASS
Band V	4182	23.41	20.54	38.45	PASS
Band V	4233	23.24	20.37	38.45	PASS

Remark:

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

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

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



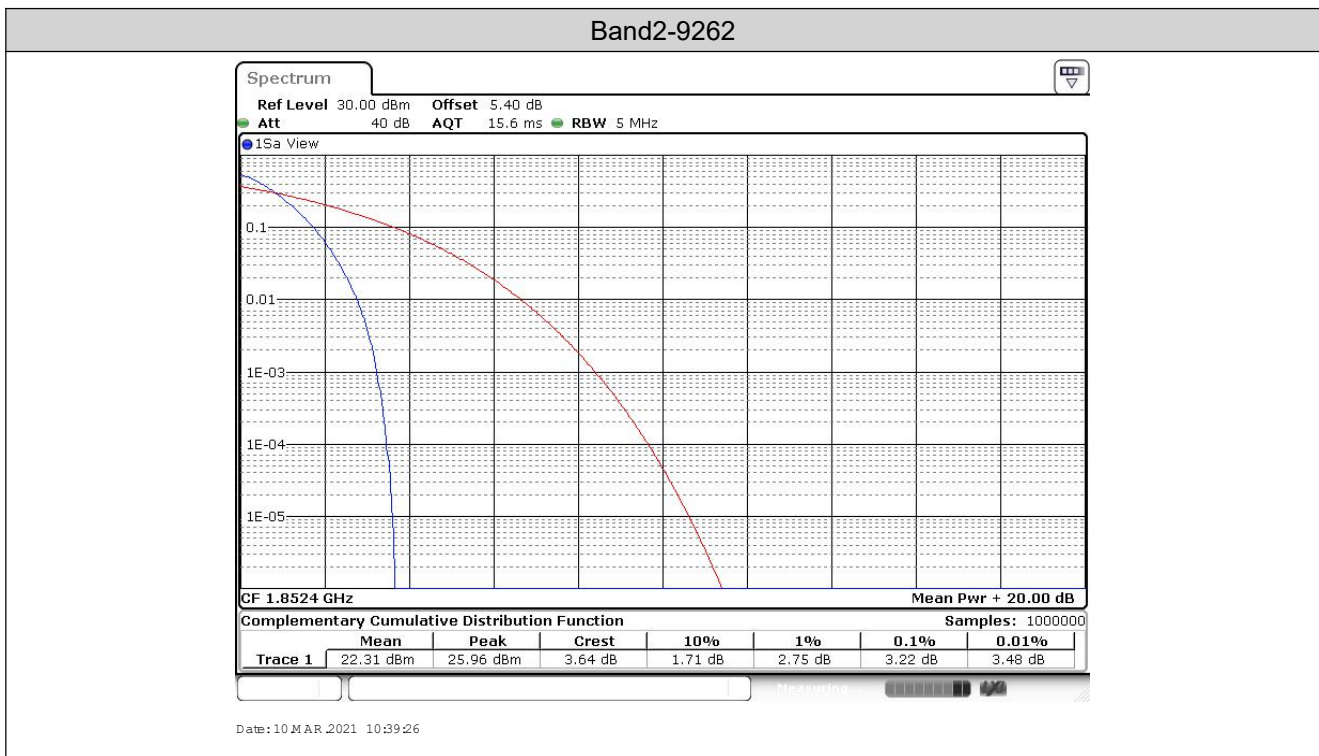
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

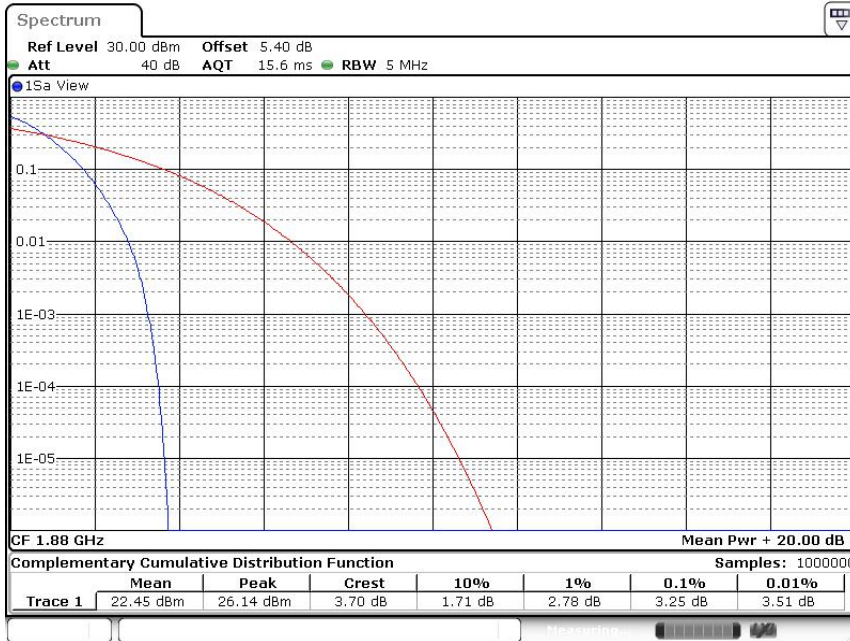
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	3.22	13	PASS
Band2	9400	3.25	13	PASS
Band2	9538	3.16	13	PASS
Band5	4132	3.16	13	PASS
Band5	4182	3.1	13	PASS
Band5	4233	3.07	13	PASS

### 2.2. Test Plots





**Band2-9400**



Date: 10 MAR 2021 10:39:43

**Band2-9538**



Date: 10 MAR 2021 10:39:59

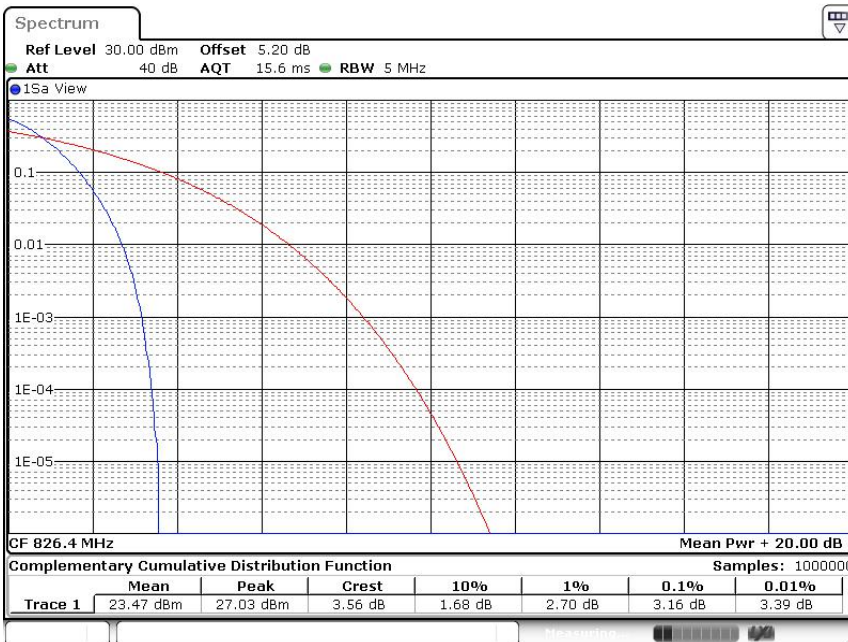


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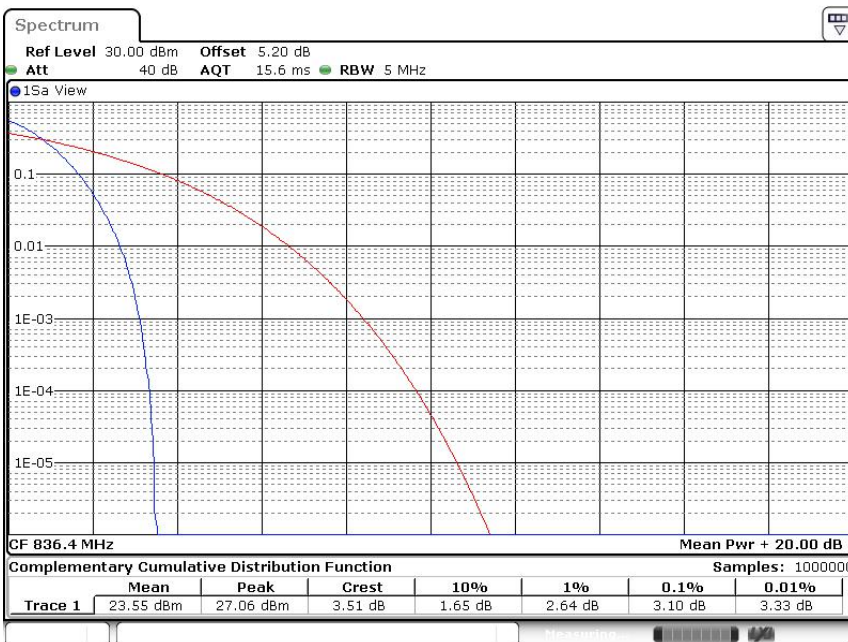
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**Band5-4132**



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**Band5-4182**

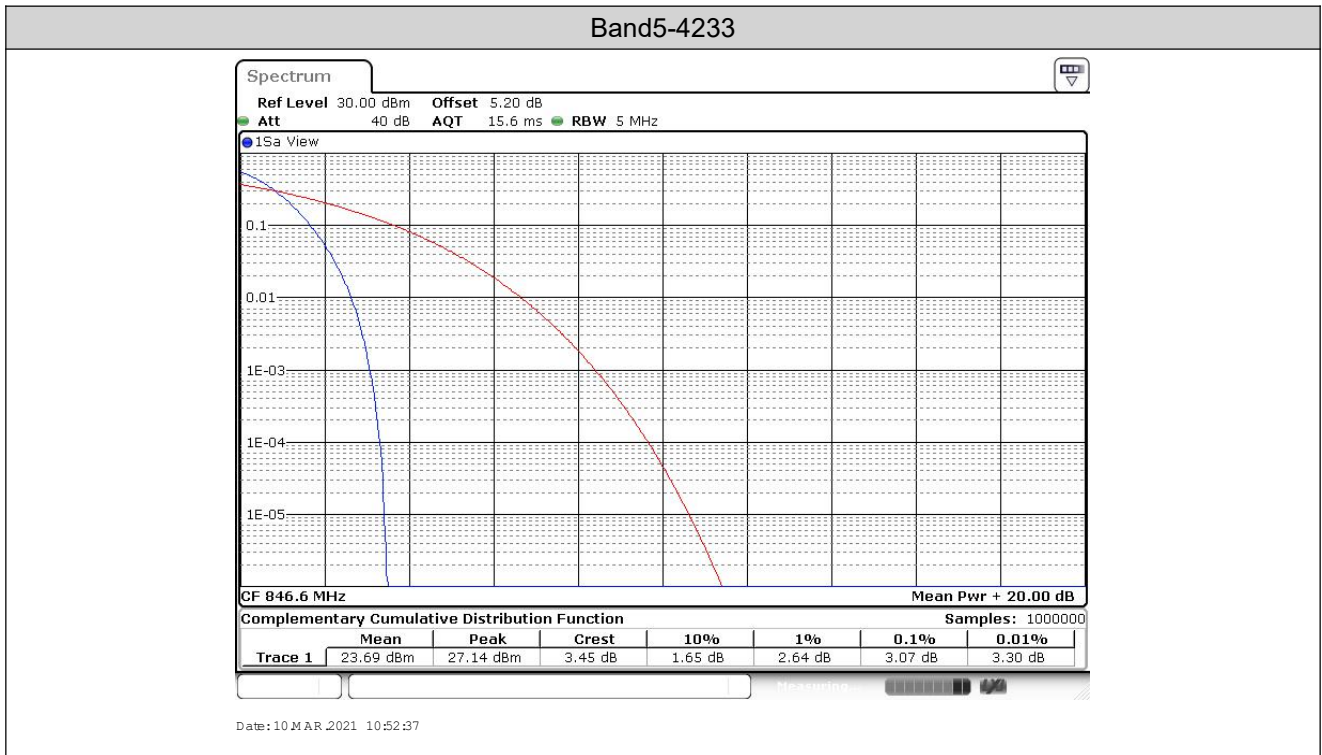


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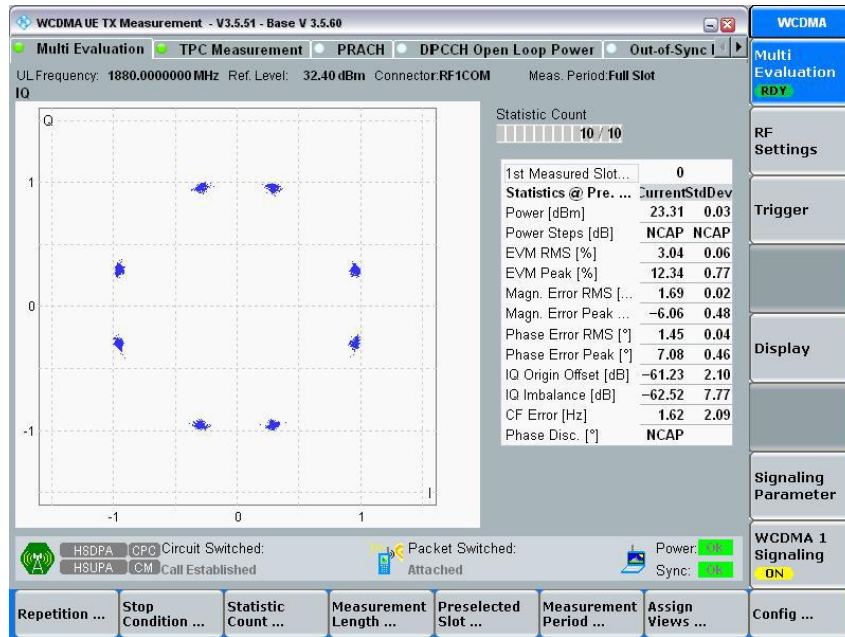


### 3. Modulation Characteristics

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

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

##### 3.1.1.1. Test Channel = MCH



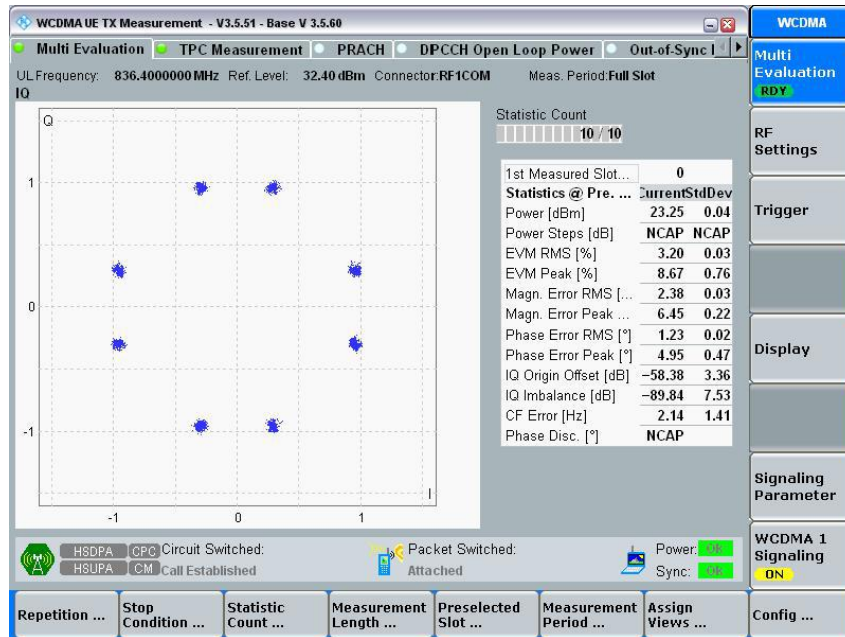
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### 3.2. Test Band = WCDMA Band V

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

##### 3.2.1.1. Test Channel = MCH



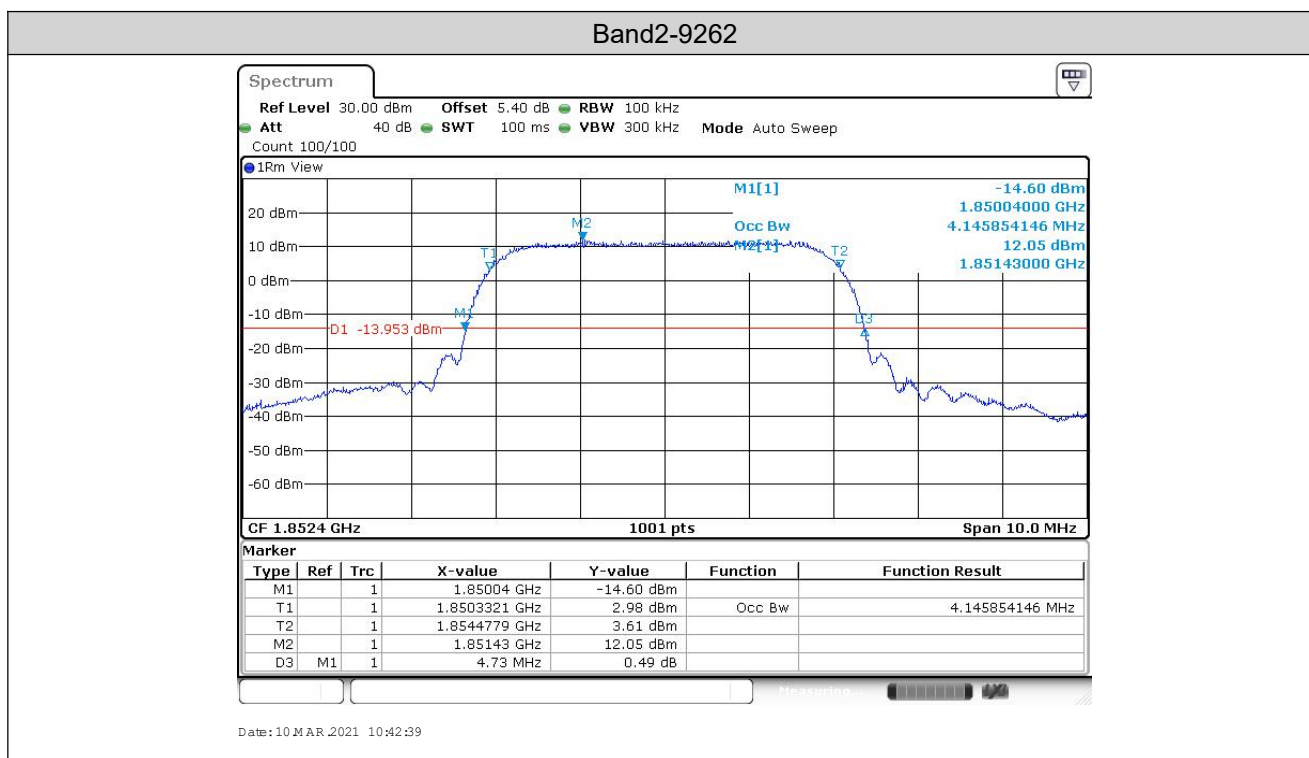
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.146	4.730	---	PASS
Band2	9400	4.146	4.740	---	PASS
Band2	9538	4.146	4.730	---	PASS
Band5	4132	4.136	4.730	---	PASS
Band5	4182	4.156	4.740	---	PASS
Band5	4233	4.136	4.740	---	PASS

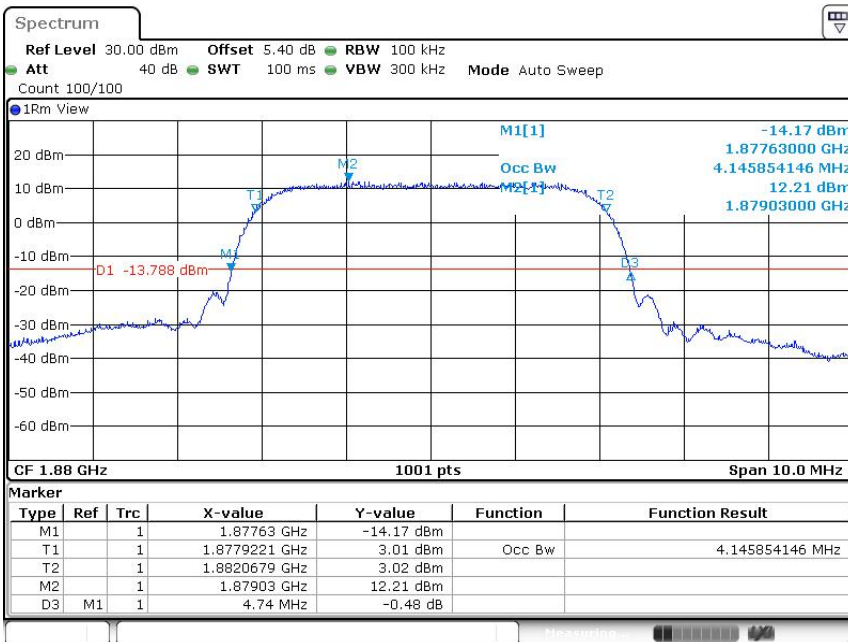
### 4.2. Test Plots



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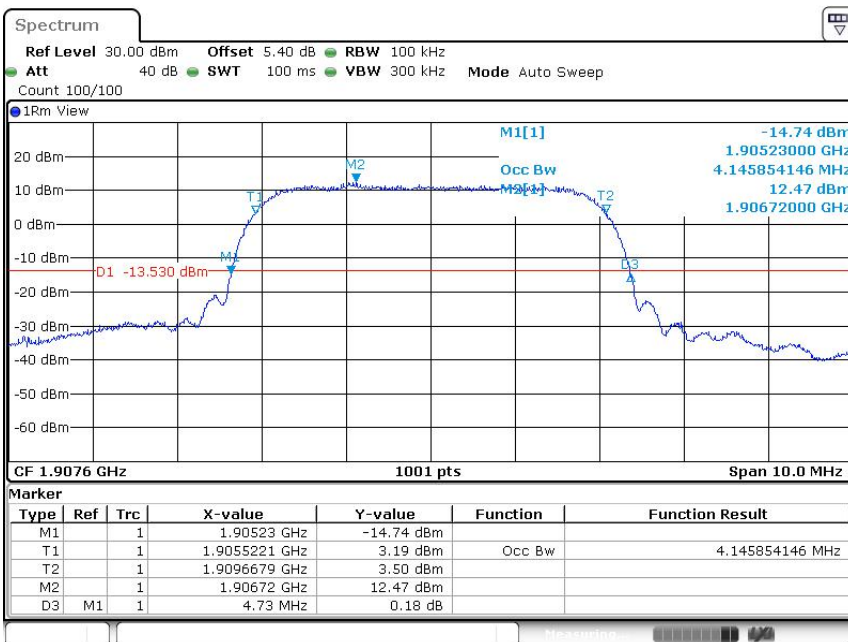
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**Band2-9400**



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**Band2-9538**



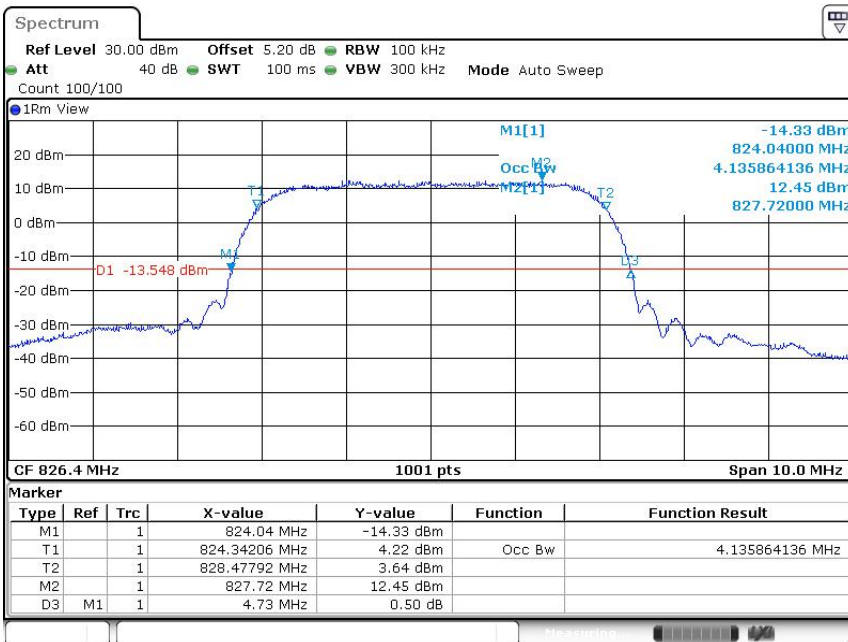
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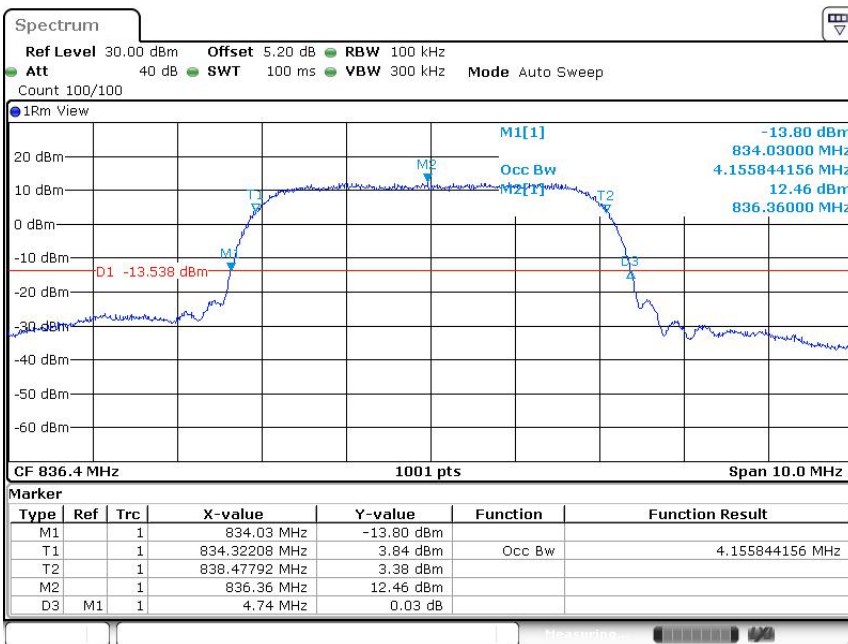


**Band5-4132**



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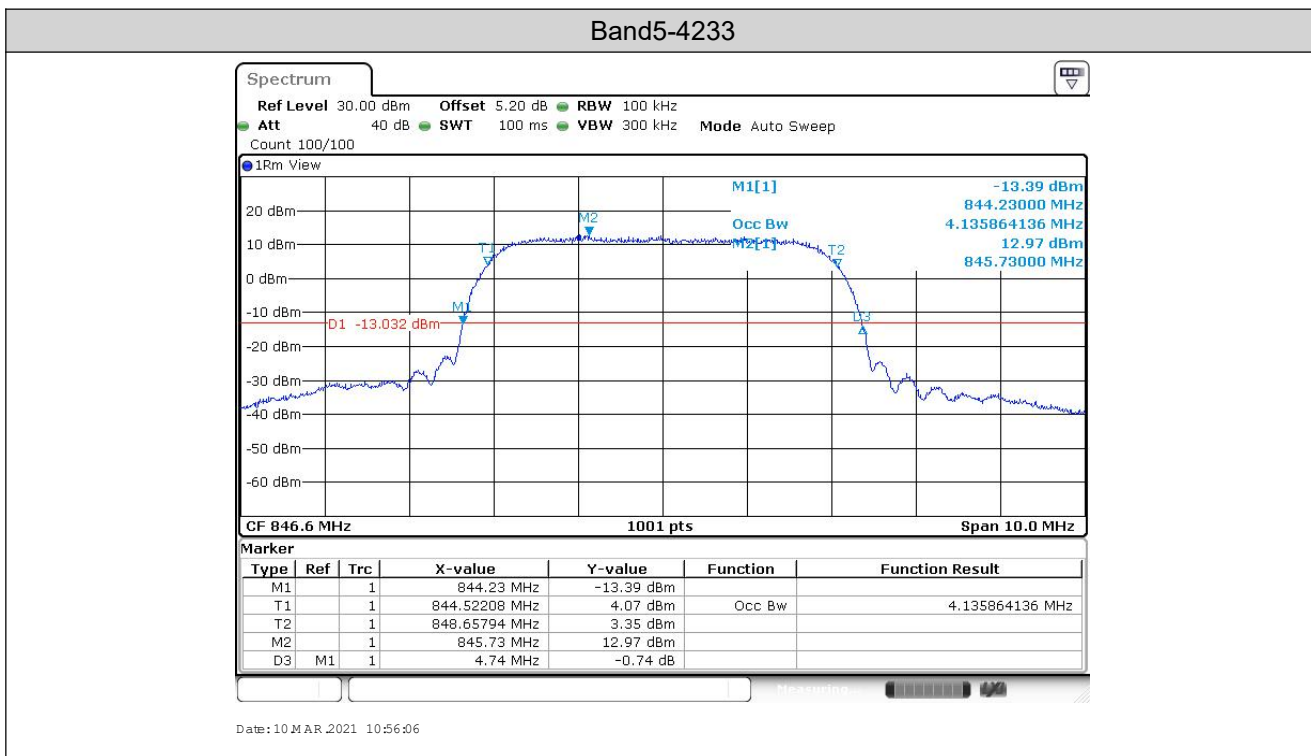
**Band5-4182**



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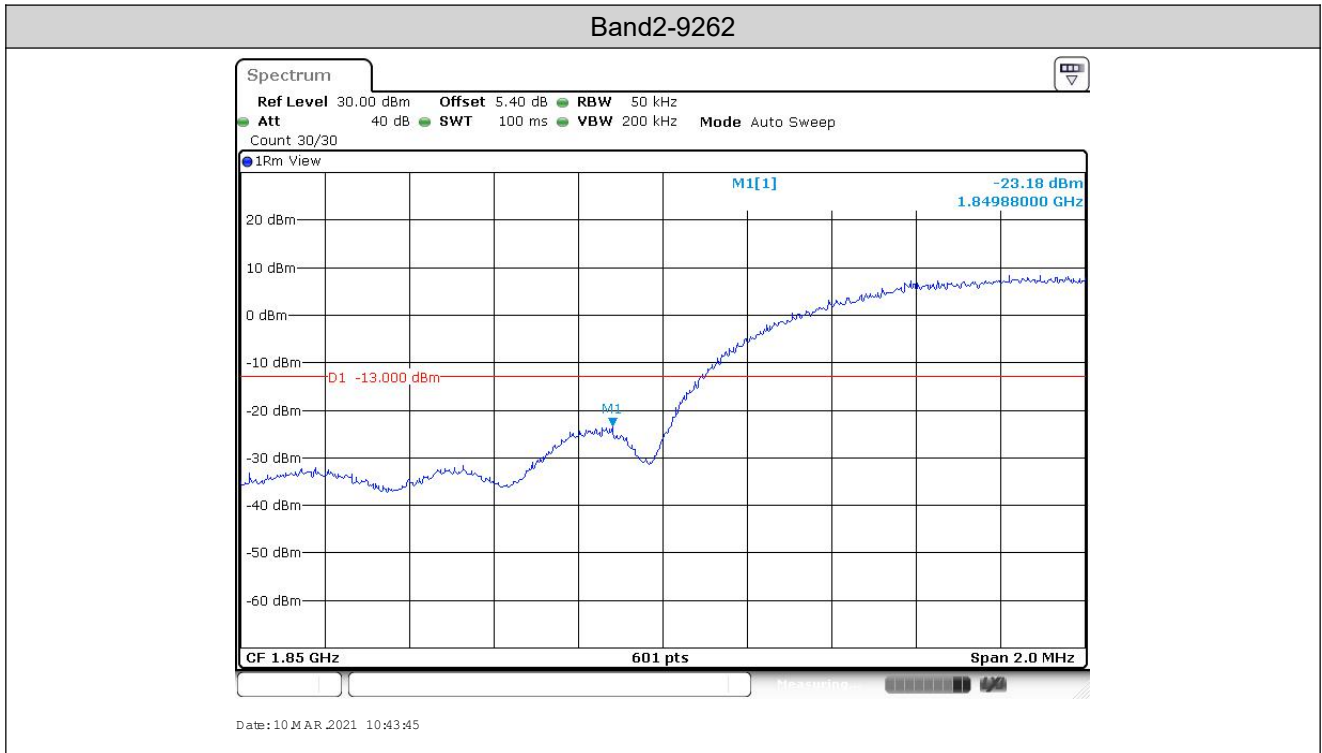


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## 5. Band Edge Compliance

### 5.1. Test Plots



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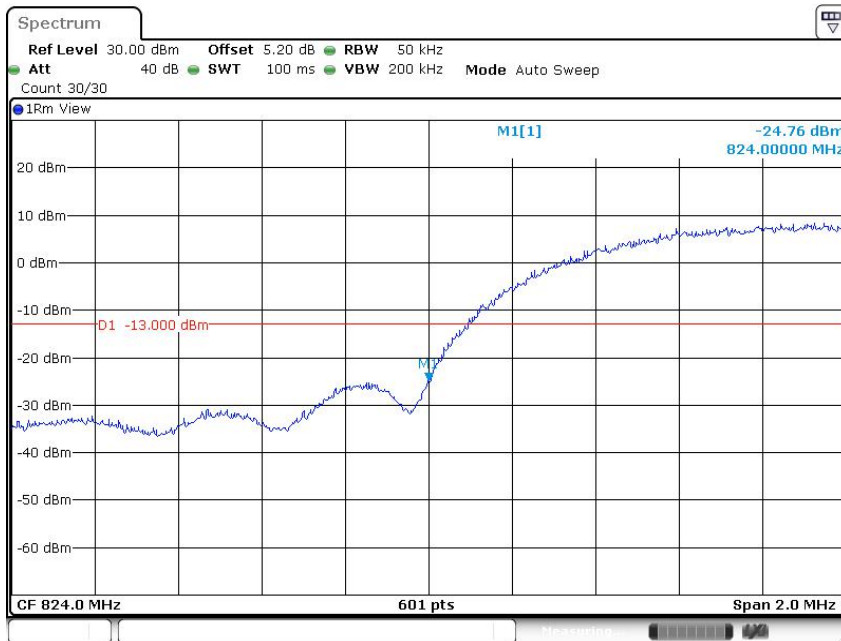
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**Band2-9538**



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**Band5-4132**

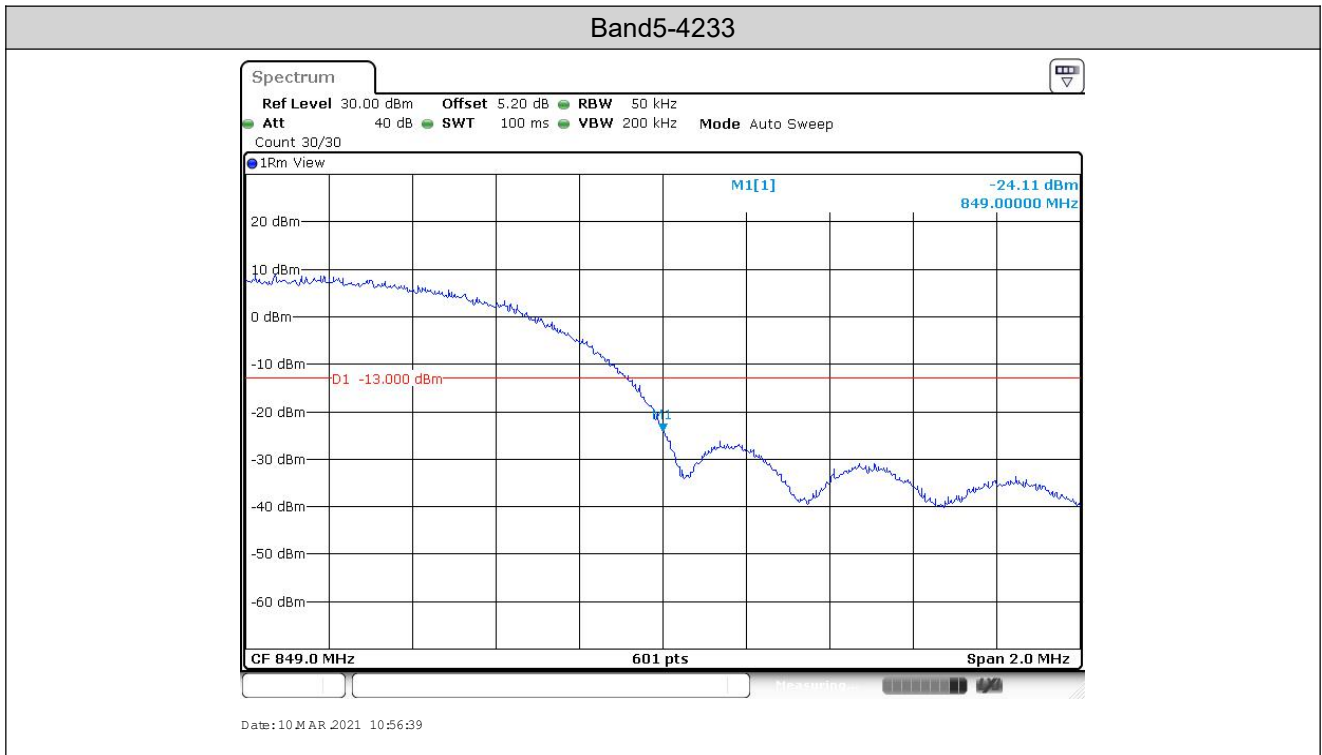


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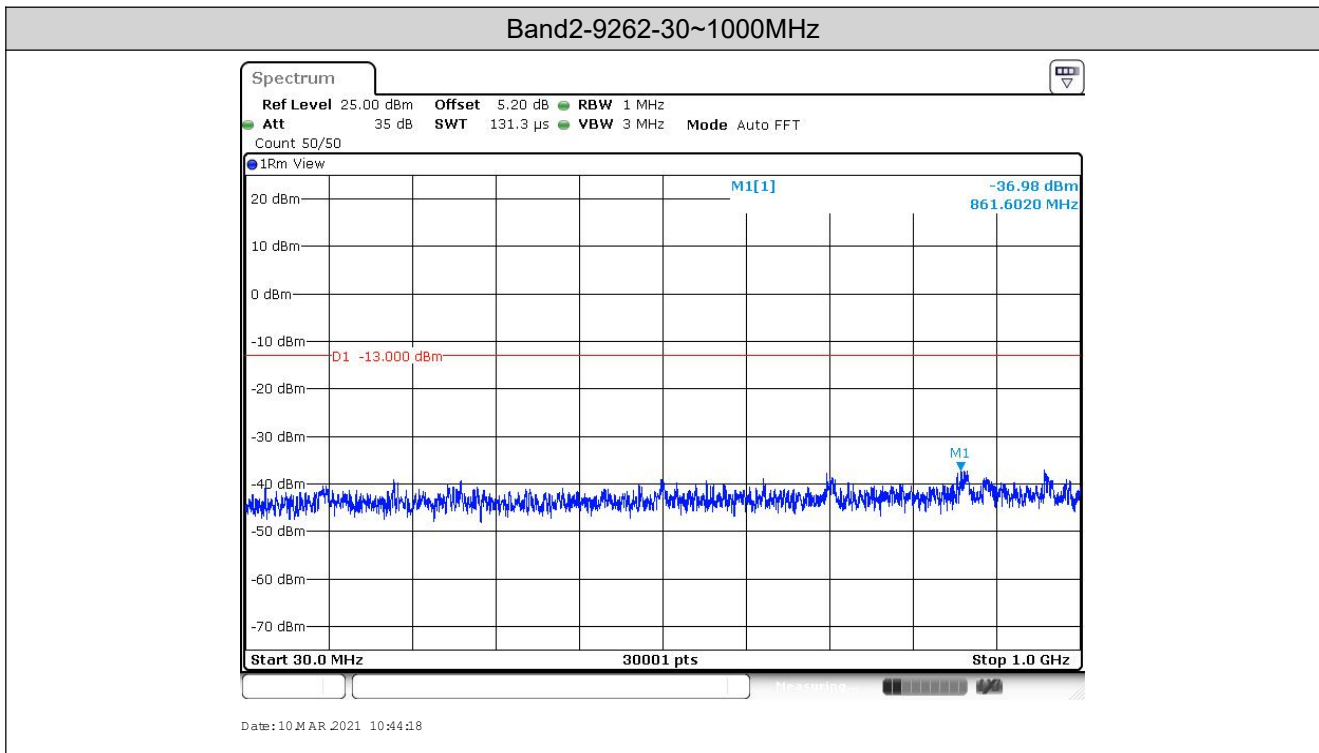
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## 6. Spurious Emission at Antenna Terminal

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.

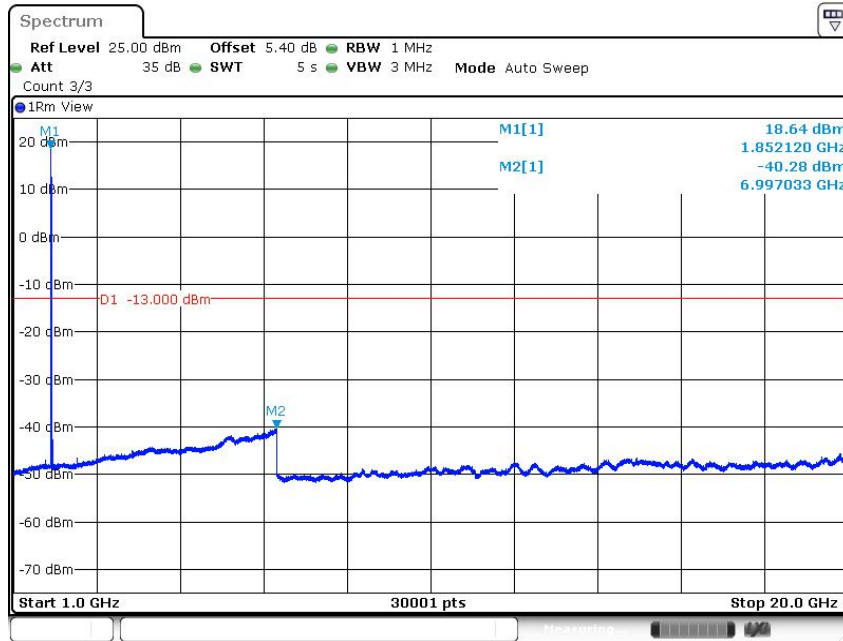
### 6.1. Test Plots



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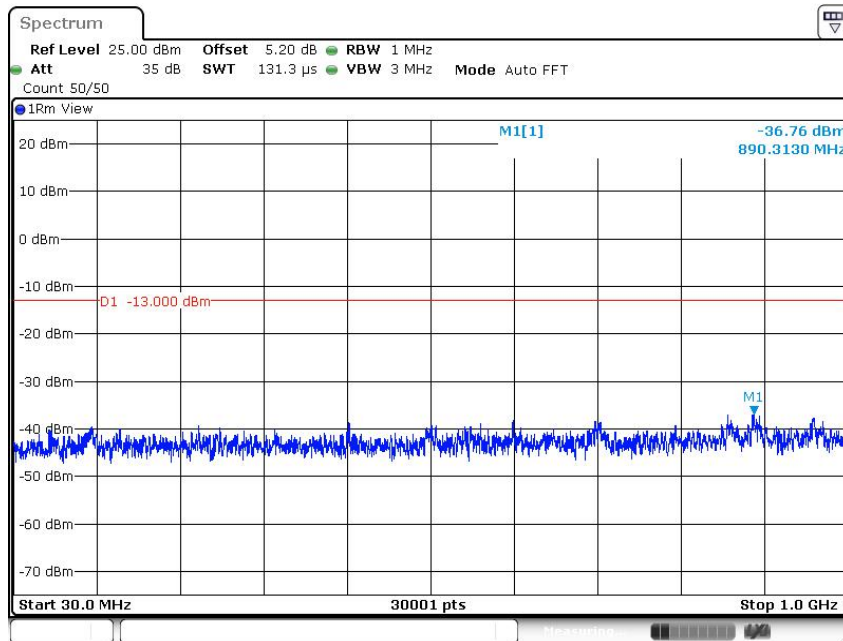
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**Band2-9262-1000~20000MHz**



Date: 10 MAR 2021 10:44:44

**Band2-9400-30~1000MHz**

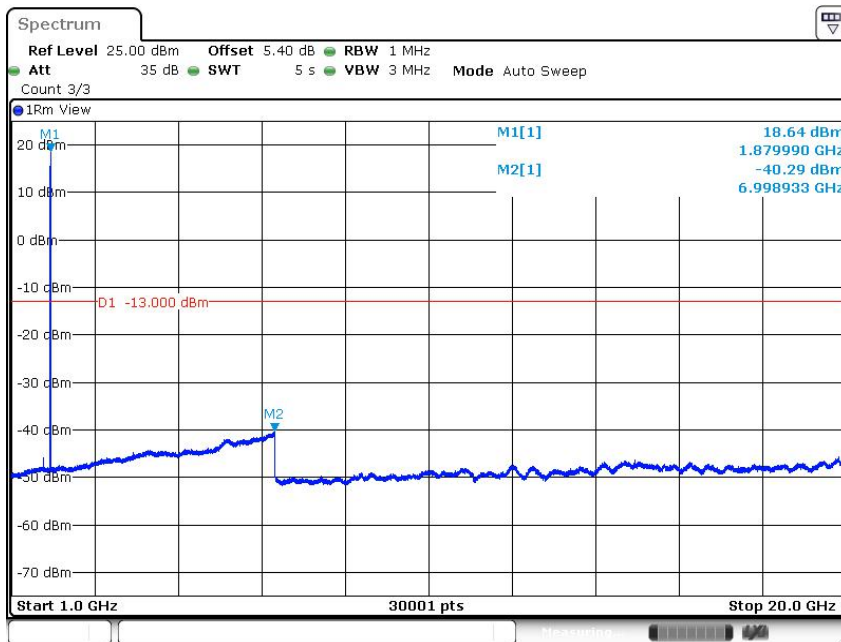


Date: 10 MAR 2021 10:45:00



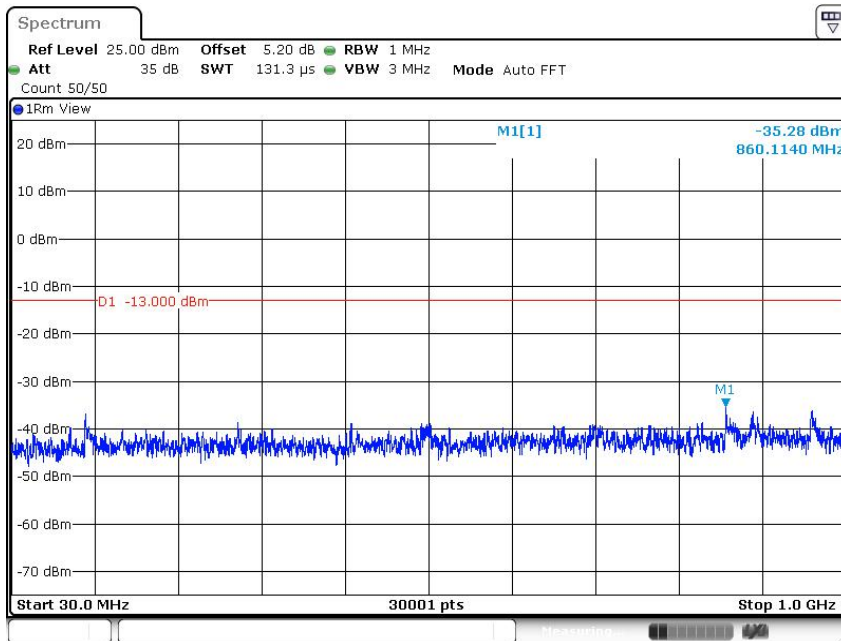
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**Band2-9400-1000~20000MHz**



Date: 10 MAR 2021 10:45:26

**Band2-9538-30~1000MHz**



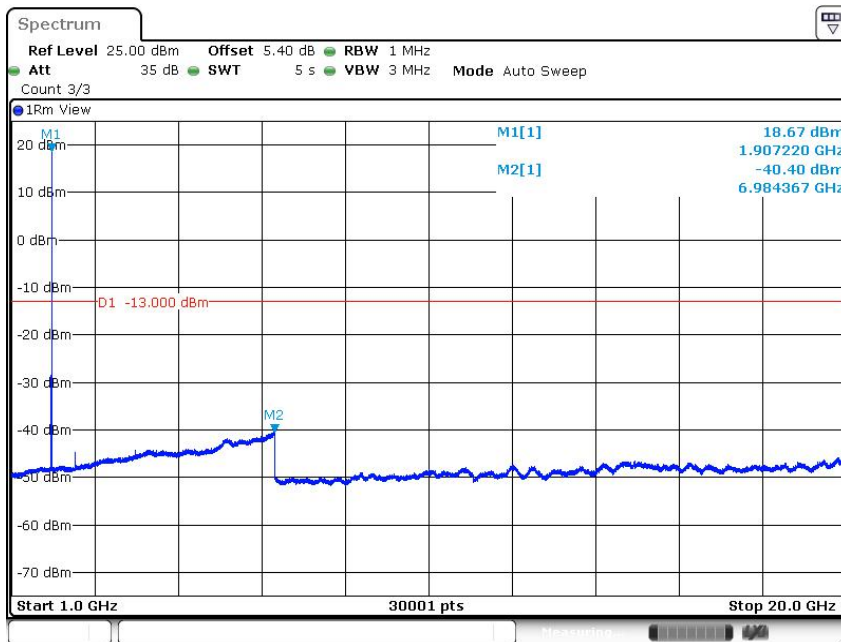
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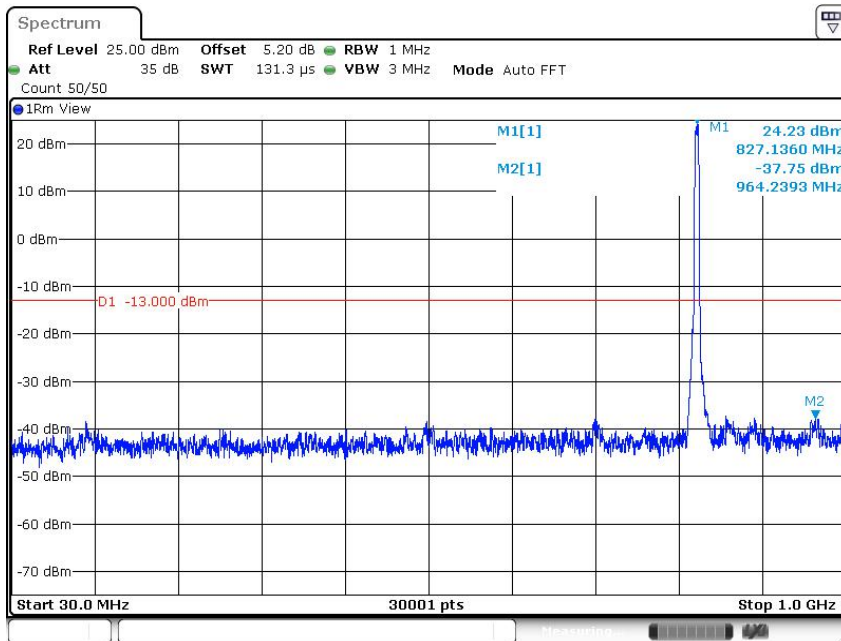


**Band2-9538-1000~20000MHz**



Date: 10 MAR 2021 10:46:07

**Band5-4132-30~1000MHz**

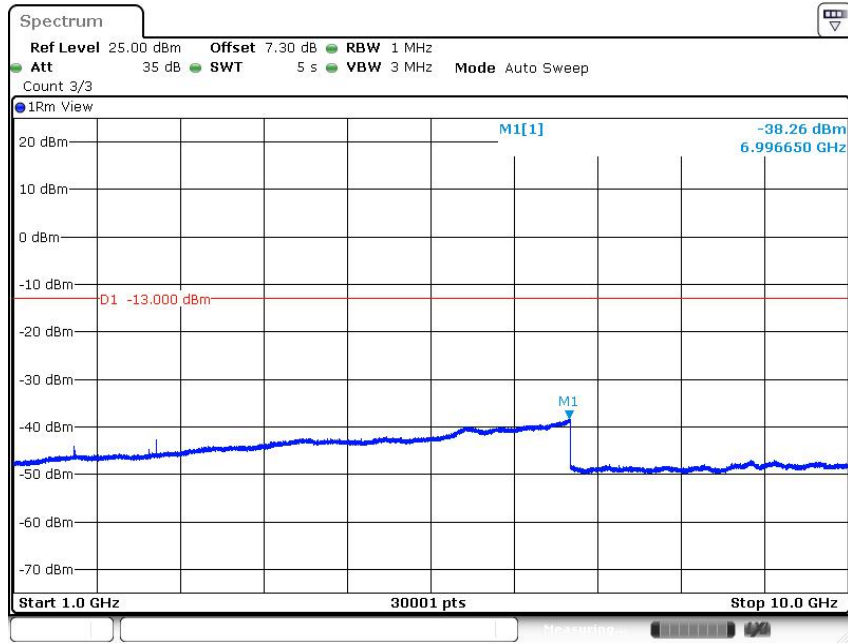


Date: 10 MAR 2021 10:56:56



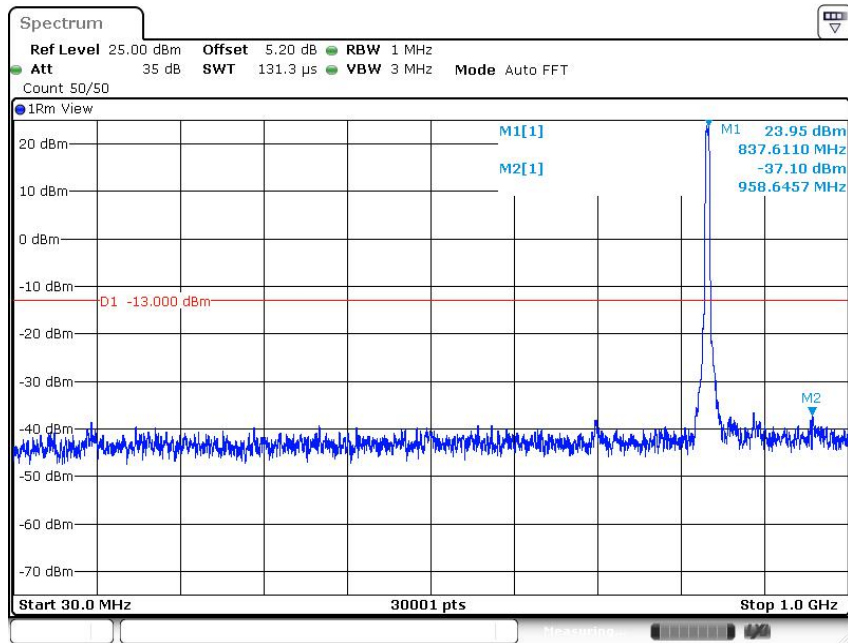
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**Band5-4132-1000~10000MHz**



Date: 10 MAR 2021 10:57:21

**Band5-4182-30~1000MHz**

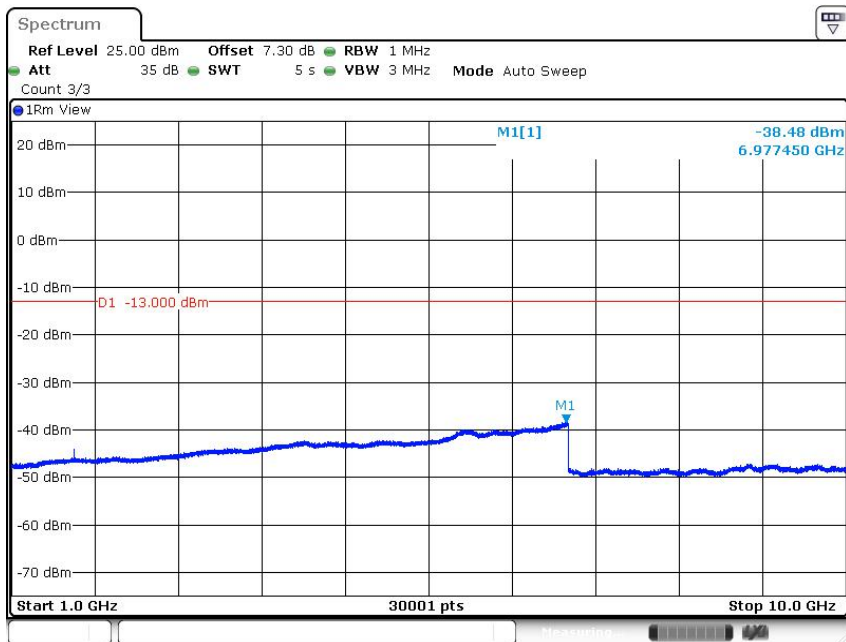


Date: 10 MAR 2021 10:57:37



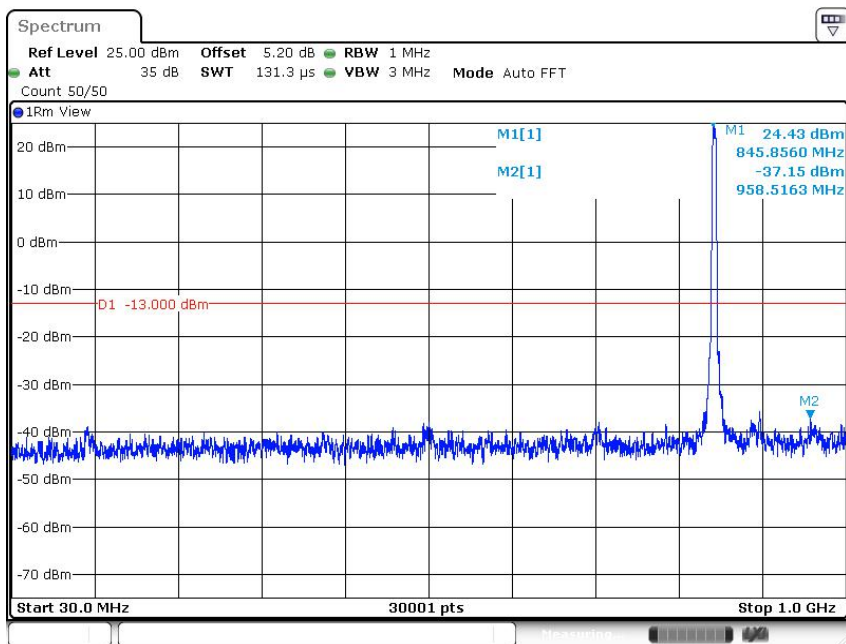
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**Band5-4182-1000~10000MHz**



Date: 10 MAR 2021 10:58:02

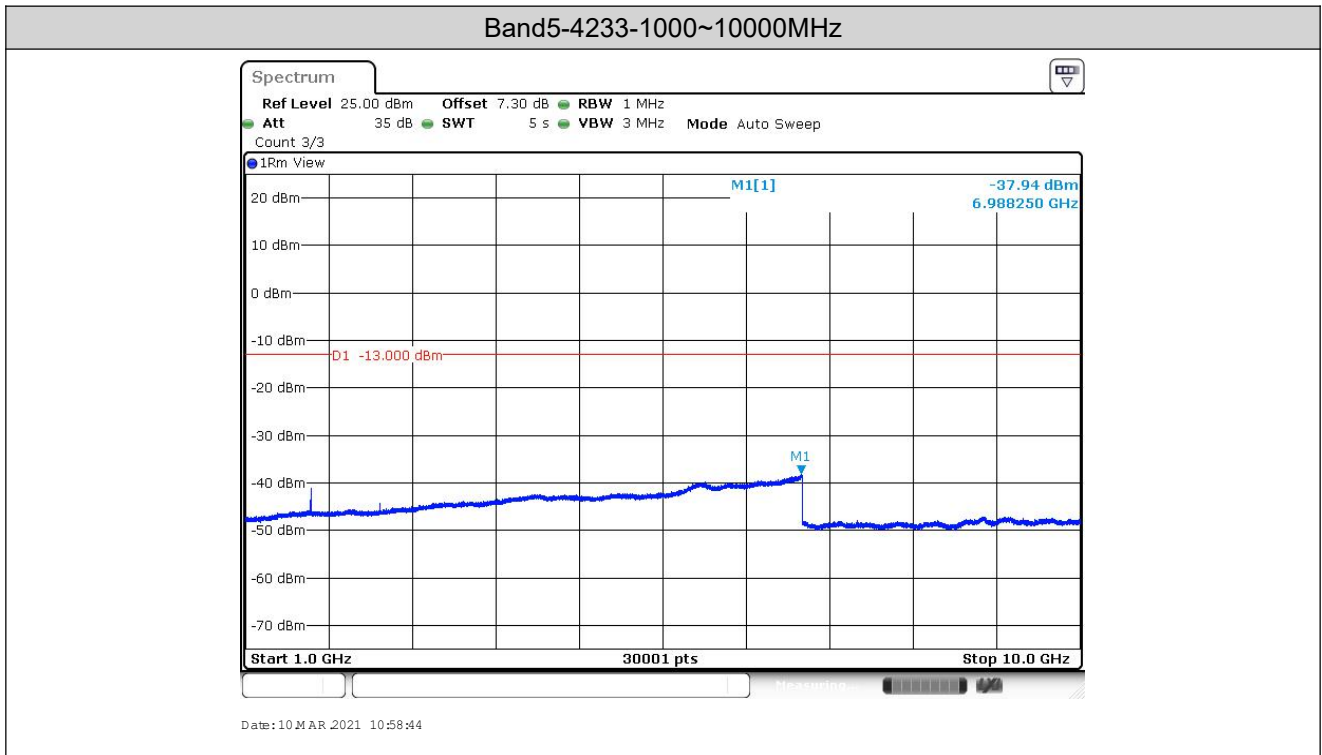
**Band5-4233-30~1000MHz**



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA\_II\_TM1

#### 7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.4052	-76.82	-67.73	-13.00	54.73	Horizontal
2	228.0839	-76.91	-72.18	-13.00	59.18	Horizontal
3	623.7182	-75.38	-65.64	-13.00	52.64	Horizontal
4	5339.5000	-47.35	-46.33	-13.00	33.33	Horizontal
5	9416.5000	-49.91	-43.43	-13.00	30.43	Horizontal
6	16420.500	-51.00	-35.95	-13.00	22.95	Horizontal

### 7.2. Test Band = WCDMA\_II\_TM1

#### 7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	47.6064	-76.84	-76.45	-13.00	63.45	Vertical
2	115.6068	-77.18	-68.83	-13.00	55.83	Vertical
3	596.9448	-75.32	-66.04	-13.00	53.04	Vertical
4	5308.0000	-47.76	-46.79	-13.00	33.79	Vertical
5	9278.0000	-50.50	-43.56	-13.00	30.56	Vertical
6	14765.500	-50.86	-37.86	-13.00	24.86	Vertical



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**7.3. Test Band = WCDMA\_II\_TM1**

**7.3.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.9016	-77.03	-68.01	-13.00	55.01	Horizontal
2	254.2267	-74.78	-70.78	-13.00	57.78	Horizontal
3	675.9068	-76.19	-65.89	-13.00	52.89	Horizontal
4	5308.0000	-48.40	-46.91	-13.00	33.91	Horizontal
5	9744.5000	-50.81	-43.79	-13.00	30.79	Horizontal
6	16945.500	-50.74	-35.09	-13.00	22.09	Horizontal

**7.4. Test Band = WCDMA\_II\_TM1**

**7.4.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.3525	-76.71	-75.93	-13.00	62.93	Vertical
2	109.8835	-77.02	-68.14	-13.00	55.14	Vertical
3	554.6992	-75.41	-68.14	-13.00	55.14	Vertical
4	5326.0000	-48.60	-47.88	-13.00	34.88	Vertical
5	9278.5000	-47.37	-40.43	-13.00	27.43	Vertical
6	14819.000	-52.18	-38.43	-13.00	25.43	Vertical



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**7.5. Test Band = WCDMA\_II\_TM1**

**7.5.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.5208	-77.49	-68.67	-13.00	55.67	Horizontal
2	227.3564	-77.47	-72.86	-13.00	59.86	Horizontal
3	673.2877	-76.19	-65.86	-13.00	52.86	Horizontal
4	5301.0000	-47.79	-46.19	-13.00	33.19	Horizontal
5	9607.5000	-49.41	-42.85	-13.00	29.85	Horizontal
6	16676.500	-50.70	-36.61	-13.00	23.61	Horizontal

**7.6. Test Band = WCDMA\_II\_TM1**

**7.6.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.5022	-78.33	-78.94	-13.00	65.94	Vertical
2	110.5140	-77.55	-68.68	-13.00	55.68	Vertical
3	589.4270	-76.40	-67.05	-13.00	54.05	Vertical
4	5297.5000	-47.60	-46.57	-13.00	33.57	Vertical
5	9378.0000	-49.88	-43.16	-13.00	30.16	Vertical
6	14888.000	-51.51	-37.58	-13.00	24.58	Vertical



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**7.7. Test Band = WCDMA\_V\_TM1**

**7.7.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.1442	-95.36	-64.63	-13.00	51.63	Horizontal
2	233.2252	-96.90	-72.08	-13.00	59.08	Horizontal
3	416.6613	-95.37	-71.68	-13.00	58.68	Horizontal
4	1651.3333	-64.64	-45.77	-13.00	32.77	Horizontal
5	5126.1333	-42.07	-43.06	-13.00	30.06	Horizontal
6	9296.7333	-57.54	-50.80	-13.00	37.80	Horizontal

**7.8. Test Band = WCDMA\_V\_TM1**

**7.8.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.9020	-97.46	-68.14	-13.00	55.14	Vertical
2	333.3342	-89.86	-66.45	-13.00	53.45	Vertical
3	1654.4000	-72.45	-53.96	-13.00	40.96	Vertical
4	2430.8000	-79.70	-56.45	-13.00	43.45	Vertical
5	5296.4667	-55.48	-54.47	-13.00	41.47	Vertical
6	9754.0667	-58.35	-50.42	-13.00	37.42	Vertical



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**7.9. Test Band = WCDMA\_V\_TM1**

**7.9.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.3867	-95.24	-64.50	-13.00	51.50	Horizontal
2	227.6959	-95.62	-71.16	-13.00	58.16	Horizontal
3	465.5033	-95.30	-70.99	-13.00	57.99	Horizontal
4	1674.5333	-66.02	-47.04	-13.00	34.04	Horizontal
5	9277.1333	-57.79	-50.95	-13.00	37.95	Horizontal

**7.10. Test Band = WCDMA\_V\_TM1**

**7.10.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.4195	-97.10	-74.58	-13.00	61.58	Vertical
2	109.0105	-96.26	-67.06	-13.00	54.06	Vertical
3	328.2414	-95.56	-72.35	-13.00	59.35	Vertical
4	1671.0667	-73.87	-55.29	-13.00	42.29	Vertical
5	5314.6667	-55.39	-54.51	-13.00	41.51	Vertical
6	9073.6667	-57.73	-52.40	-13.00	39.40	Vertical



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**7.11. Test Band = WCDMA\_V\_TM1**

**7.11.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.8046	-93.81	-63.10	-13.00	50.10	Horizontal
2	234.1467	-95.85	-71.03	-13.00	58.03	Horizontal
3	445.2293	-95.08	-71.31	-13.00	58.31	Horizontal
4	1695.6000	-66.53	-47.46	-13.00	34.46	Horizontal
5	5162.5333	-26.26	-27.20	-13.00	14.20	Horizontal
6	9263.1333	-57.68	-50.76	-13.00	37.76	Horizontal

**7.12. Test Band = WCDMA\_V\_TM1**

**7.12.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.9345	-97.37	-74.83	-13.00	61.83	Vertical
2	113.5212	-96.41	-67.37	-13.00	54.37	Vertical
3	378.6839	-95.59	-71.59	-13.00	58.59	Vertical
4	1691.6000	-73.34	-54.66	-13.00	41.66	Vertical
5	2625.3333	-77.09	-54.47	-13.00	41.47	Vertical
6	5192.8667	-21.11	-22.18	-13.00	9.18	Vertical



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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
Band2	9262	VL	NT	0.69	0.000372	±2.5	PASS
Band2	9262	VN	NT	-1.85	-0.000999	±2.5	PASS
Band2	9262	VH	NT	-0.89	-0.000480	±2.5	PASS
Band2	9400	VL	NT	-0.58	-0.000309	±2.5	PASS
Band2	9400	VN	NT	-1.65	-0.000878	±2.5	PASS
Band2	9400	VH	NT	-4.32	-0.002298	±2.5	PASS
Band2	9538	VL	NT	-2.67	-0.001400	±2.5	PASS
Band2	9538	VN	NT	-4.30	-0.002254	±2.5	PASS
Band2	9538	VH	NT	-8.15	-0.004272	±2.5	PASS
Band5	4132	VL	NT	-1.24	-0.001500	±2.5	PASS
Band5	4132	VN	NT	-1.01	-0.001222	±2.5	PASS
Band5	4132	VH	NT	-1.60	-0.001936	±2.5	PASS
Band5	4182	VL	NT	-2.06	-0.002463	±2.5	PASS
Band5	4182	VN	NT	0.09	0.000108	±2.5	PASS
Band5	4182	VH	NT	0.05	0.000060	±2.5	PASS
Band5	4233	VL	NT	-4.27	-0.005044	±2.5	PASS
Band5	4233	VN	NT	-2.14	-0.002528	±2.5	PASS
Band5	4233	VH	NT	-4.36	-0.005150	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	-0.67	-0.000362	±2.5	PASS
Band2	9262	NV	-20	-4.44	-0.002397	±2.5	PASS
Band2	9262	NV	-10	-1.10	-0.000594	±2.5	PASS
Band2	9262	NV	0	-3.05	-0.001647	±2.5	PASS
Band2	9262	NV	10	-2.03	-0.001096	±2.5	PASS
Band2	9262	NV	20	-0.84	-0.000453	±2.5	PASS



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Band2	9262	NV	30	-1.46	-0.000788	±2.5	PASS
Band2	9262	NV	40	-4.29	-0.002316	±2.5	PASS
Band2	9262	NV	50	-3.62	-0.001954	±2.5	PASS
Band2	9400	NV	-30	2.06	0.001096	±2.5	PASS
Band2	9400	NV	-20	0.05	0.000027	±2.5	PASS
Band2	9400	NV	-10	-1.79	-0.000952	±2.5	PASS
Band2	9400	NV	0	-3.63	-0.001931	±2.5	PASS
Band2	9400	NV	10	0.58	0.000309	±2.5	PASS
Band2	9400	NV	20	-3.62	-0.001926	±2.5	PASS
Band2	9400	NV	30	-4.97	-0.002644	±2.5	PASS
Band2	9400	NV	40	-1.04	-0.000553	±2.5	PASS
Band2	9400	NV	50	-7.93	-0.004218	±2.5	PASS
Band2	9538	NV	-30	-5.63	-0.002951	±2.5	PASS
Band2	9538	NV	-20	-3.89	-0.002039	±2.5	PASS
Band2	9538	NV	-10	-6.53	-0.003423	±2.5	PASS
Band2	9538	NV	0	-1.57	-0.000823	±2.5	PASS
Band2	9538	NV	10	-3.89	-0.002039	±2.5	PASS
Band2	9538	NV	20	-4.94	-0.002590	±2.5	PASS
Band2	9538	NV	30	-4.09	-0.002144	±2.5	PASS
Band2	9538	NV	40	-5.92	-0.003103	±2.5	PASS
Band2	9538	NV	50	-6.90	-0.003617	±2.5	PASS
Band5	4132	NV	-30	0.14	0.000169	±2.5	PASS
Band5	4132	NV	-20	-0.78	-0.000944	±2.5	PASS
Band5	4132	NV	-10	-1.89	-0.002287	±2.5	PASS
Band5	4132	NV	0	-3.11	-0.003763	±2.5	PASS
Band5	4132	NV	10	-0.66	-0.000799	±2.5	PASS
Band5	4132	NV	20	-6.74	-0.008156	±2.5	PASS
Band5	4132	NV	30	-1.50	-0.001815	±2.5	PASS
Band5	4132	NV	40	-4.61	-0.005578	±2.5	PASS
Band5	4132	NV	50	-2.38	-0.002880	±2.5	PASS
Band5	4182	NV	-30	-1.43	-0.001710	±2.5	PASS
Band5	4182	NV	-20	-1.33	-0.001590	±2.5	PASS
Band5	4182	NV	-10	-2.47	-0.002953	±2.5	PASS
Band5	4182	NV	0	-2.26	-0.002702	±2.5	PASS
Band5	4182	NV	10	-0.17	-0.000203	±2.5	PASS
Band5	4182	NV	20	-4.26	-0.005093	±2.5	PASS
Band5	4182	NV	30	-0.87	-0.001040	±2.5	PASS



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Band5	4182	NV	40	-1.45	-0.001734	±2.5	PASS
Band5	4182	NV	50	-3.11	-0.003718	±2.5	PASS
Band5	4233	NV	-30	-2.66	-0.003142	±2.5	PASS
Band5	4233	NV	-20	-3.49	-0.004122	±2.5	PASS
Band5	4233	NV	-10	-2.73	-0.003225	±2.5	PASS
Band5	4233	NV	0	-4.01	-0.004737	±2.5	PASS
Band5	4233	NV	10	-2.14	-0.002528	±2.5	PASS
Band5	4233	NV	20	-2.96	-0.003496	±2.5	PASS
Band5	4233	NV	30	-3.85	-0.004548	±2.5	PASS
Band5	4233	NV	40	-4.32	-0.005103	±2.5	PASS
Band5	4233	NV	50	-6.41	-0.007571	±2.5	PASS

The End



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