

# Appendix B

## WCDMA Band II & IV & 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	24.11	26.51	33.00	PASS
Band II	9400	24.02	26.42	33.00	PASS
Band II	9538	24.15	26.55	33.00	PASS
Band IV	1312	23.14	24.04	30.00	PASS
Band IV	1413	23.13	24.03	30.00	PASS
Band IV	1513	23.12	24.02	30.00	PASS

Band	Channel	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band V	4132	23.85	22.2	38.45	PASS
Band V	4182	23.88	22.23	38.45	PASS
Band V	4233	23.79	22.14	38.45	PASS

#### Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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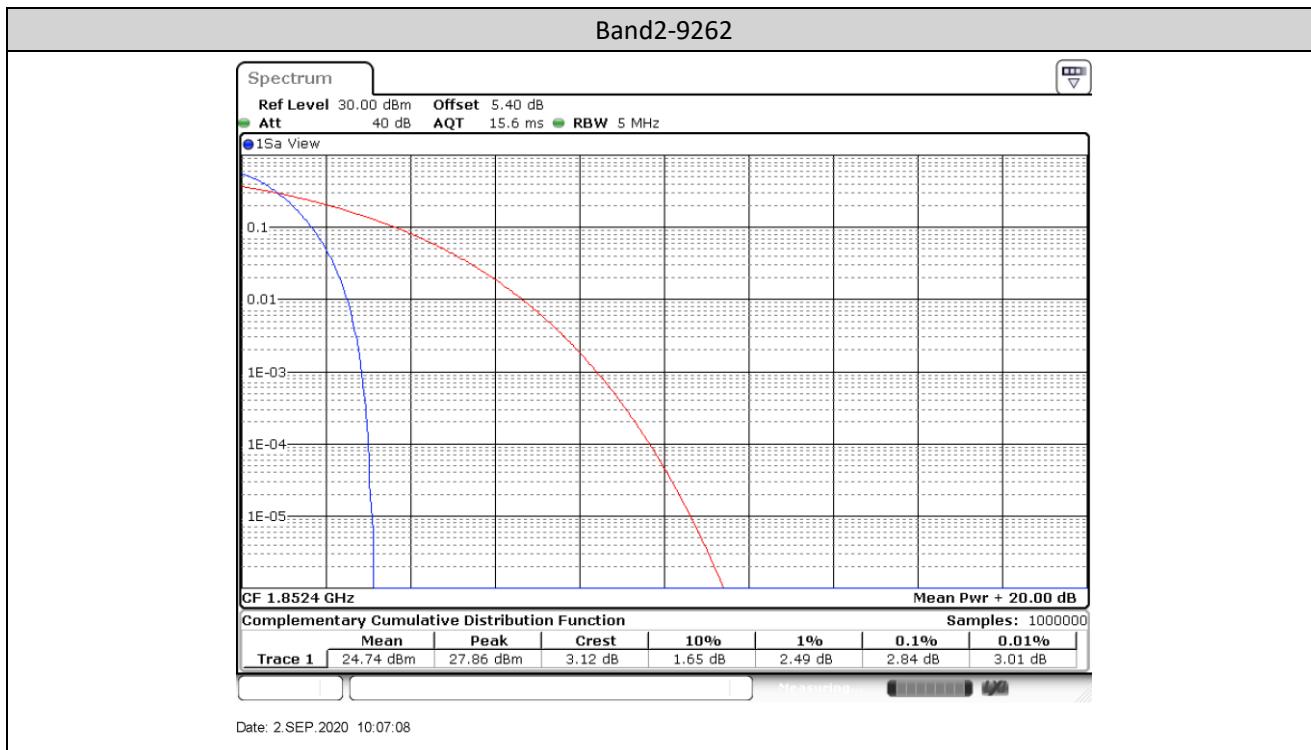
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	2.84	13	PASS
Band2	9400	2.78	13	PASS
Band2	9538	2.58	13	PASS
Band4	1312	2.9	13	PASS
Band4	1413	2.81	13	PASS
Band4	1513	3.04	13	PASS
Band5	4132	3.25	13	PASS
Band5	4182	3.16	13	PASS
Band5	4233	3.16	13	PASS

### 2.2. Test Plots

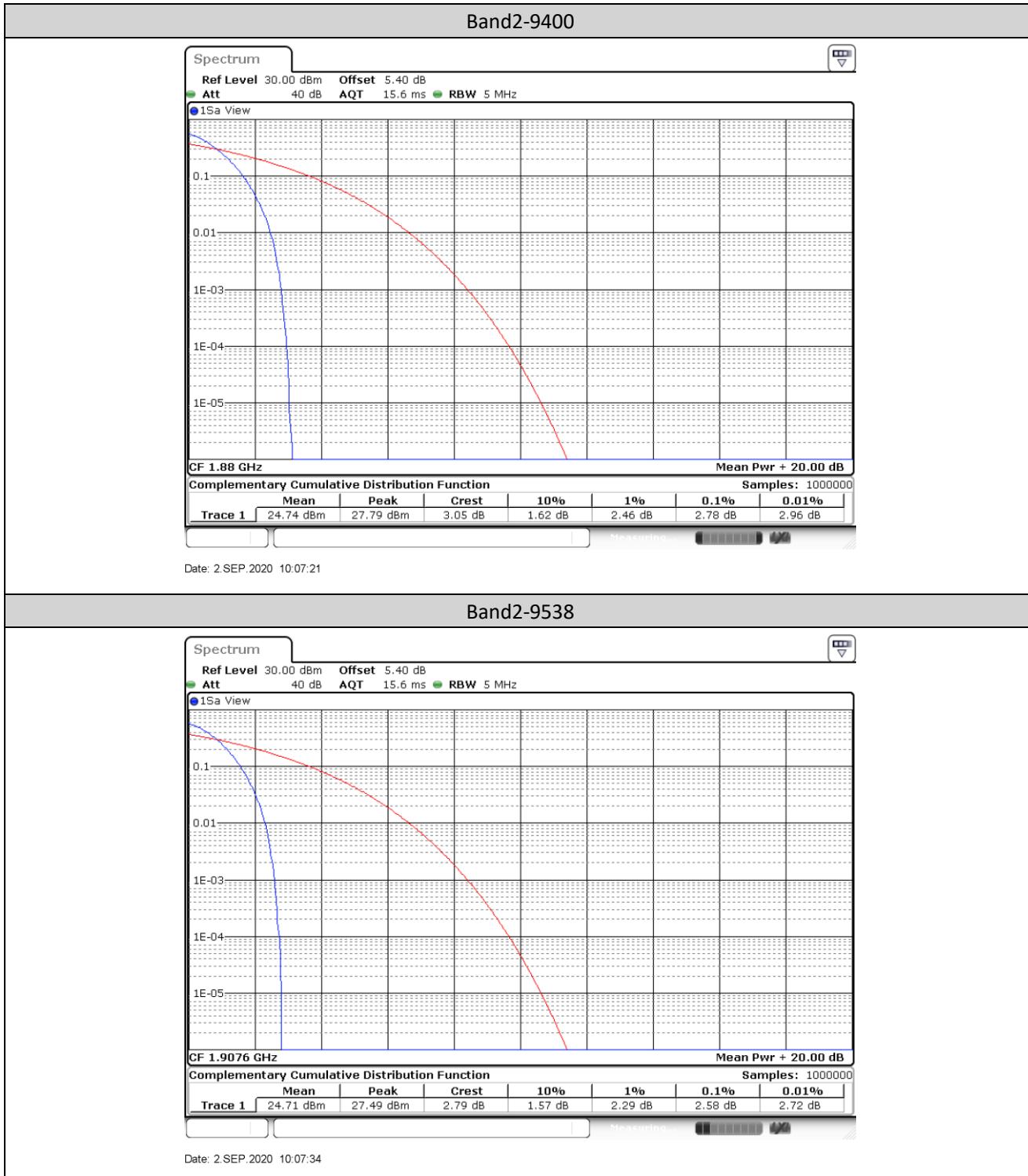


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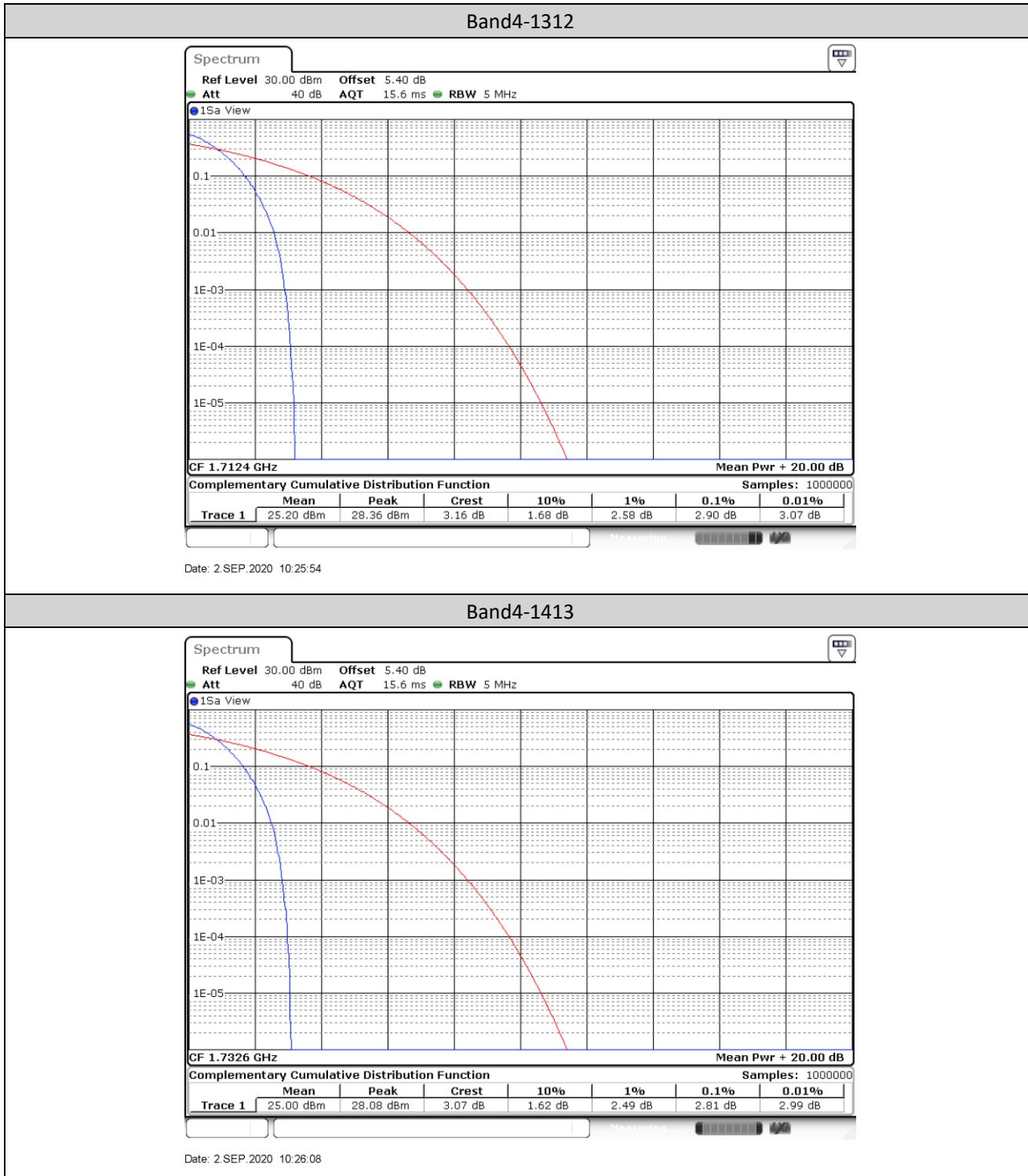


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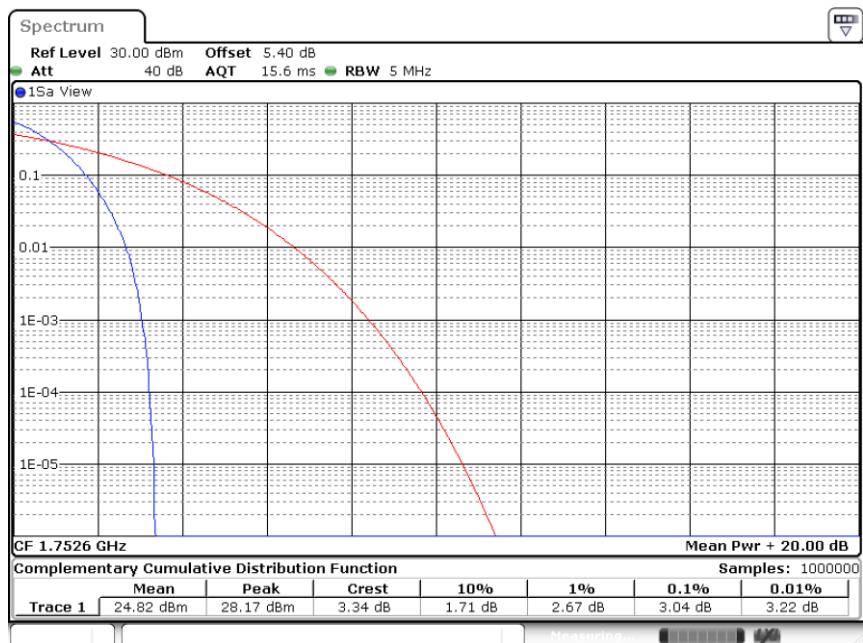
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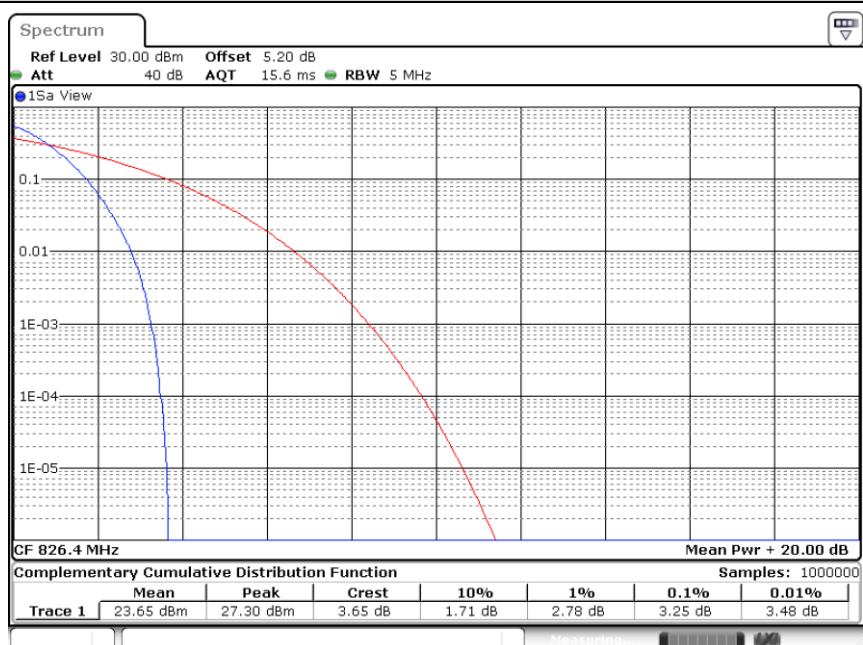
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## Band4-1513



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## Band5-4132



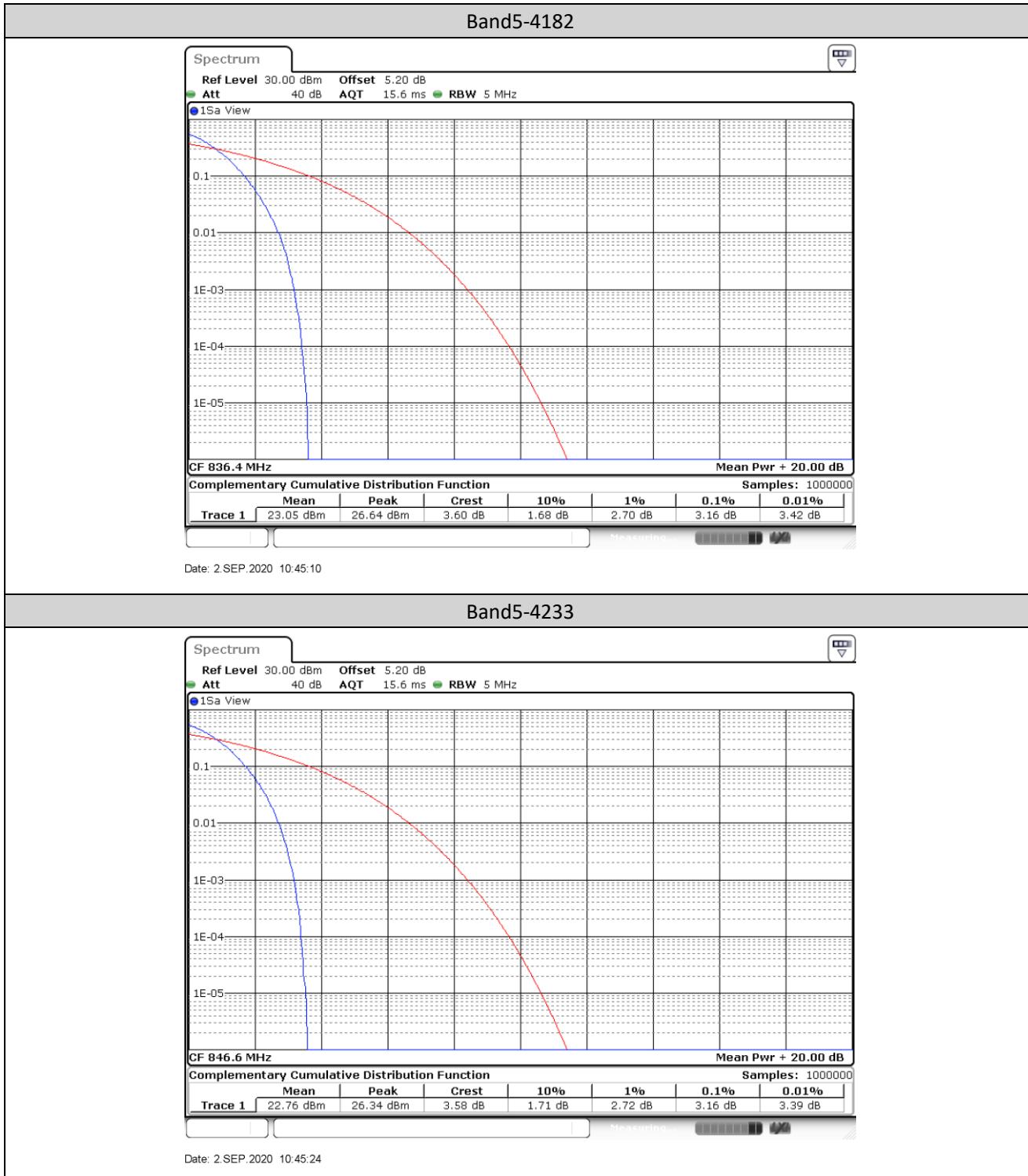
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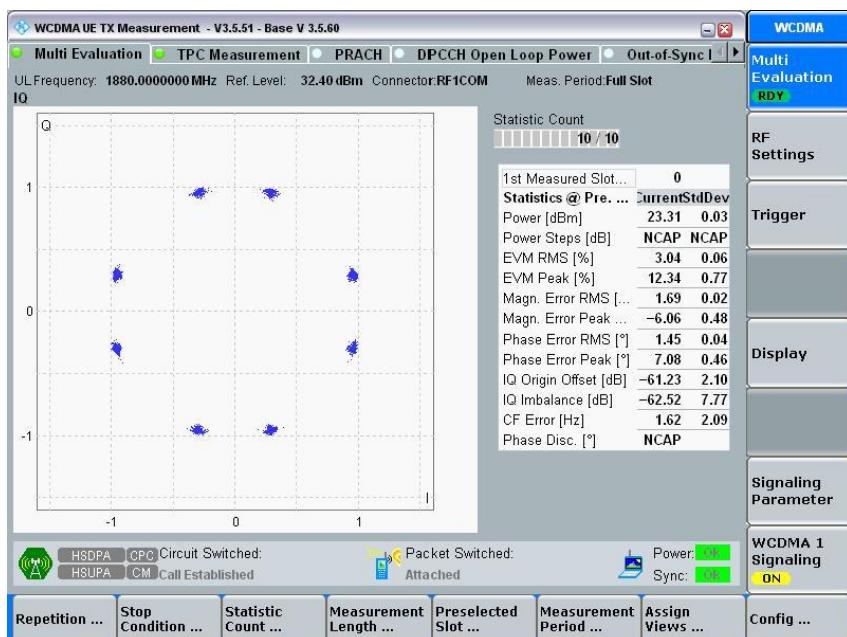
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### 3. Modulation Characteristics

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

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

###### 3.1.1.1. Test Channel = MCH



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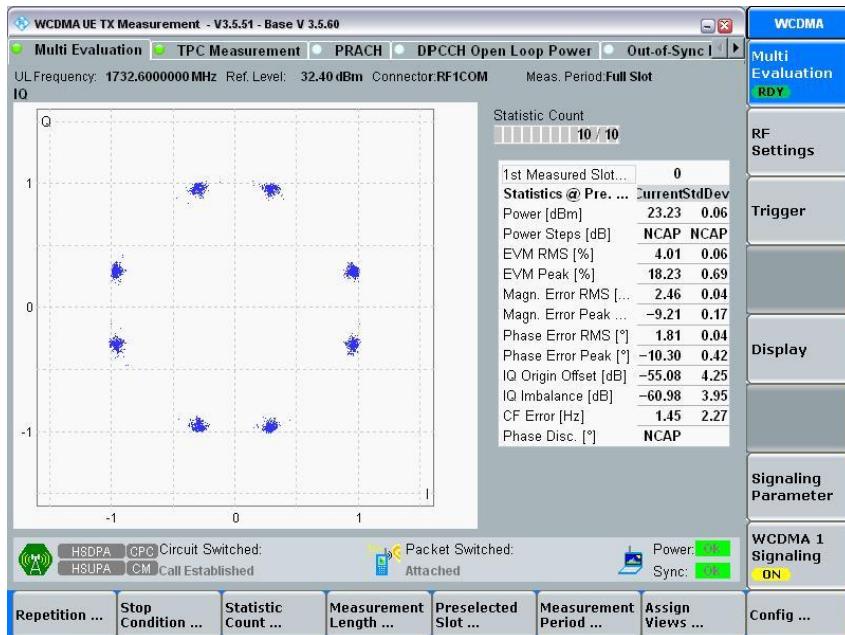


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## 3.2. Test Band = WCDMA Band IV

### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH



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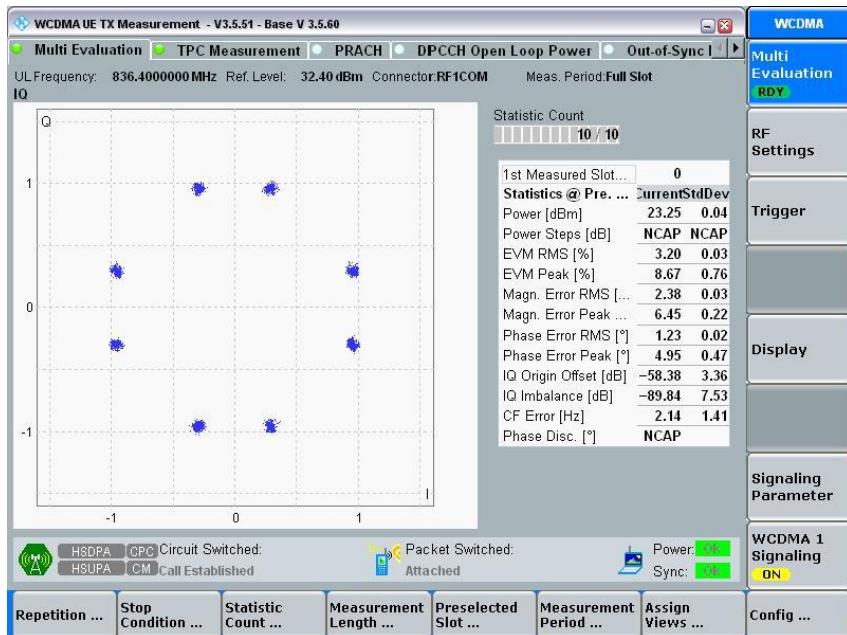
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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



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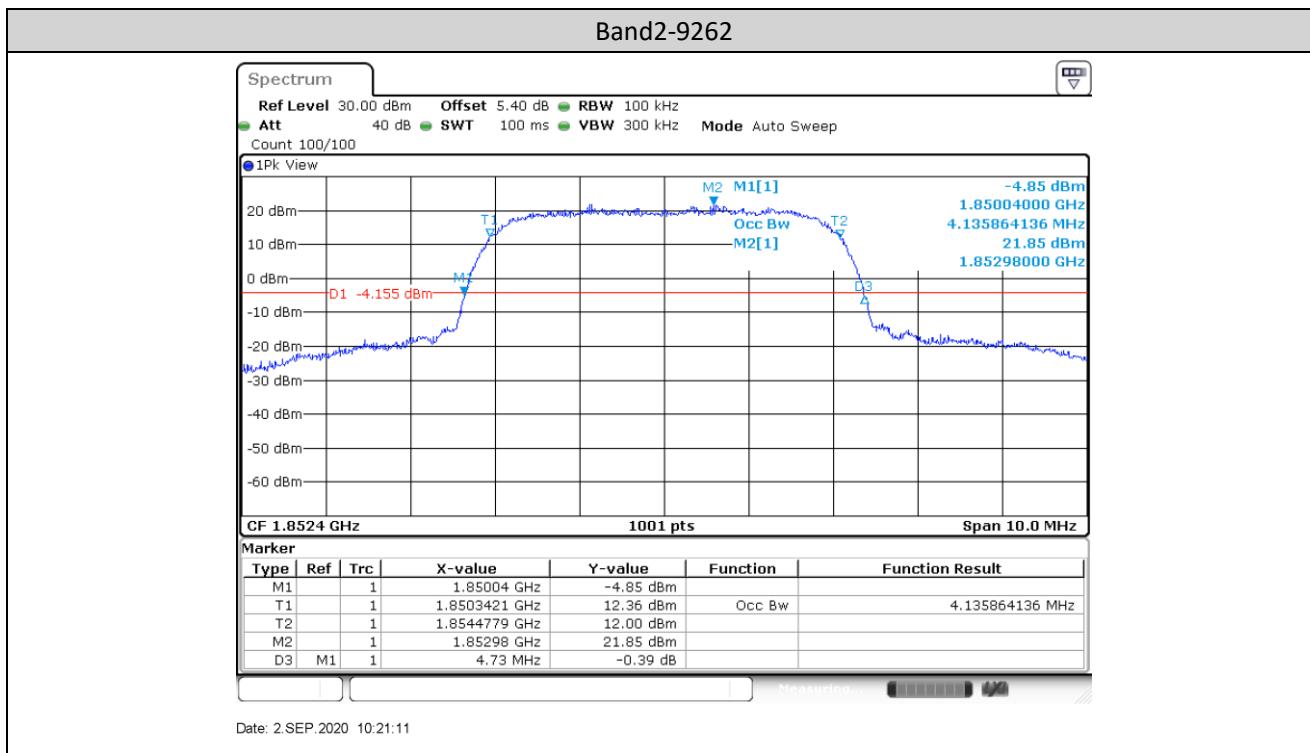
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9262	4.136	4.730	---	PASS
Band2	9400	4.136	4.730	---	PASS
Band2	9538	4.166	4.800	---	PASS
Band4	1312	4.116	4.720	---	PASS
Band4	1413	4.126	4.740	---	PASS
Band4	1513	4.116	4.720	---	PASS
Band5	4132	4.136	4.720	---	PASS
Band5	4182	4.116	4.700	---	PASS
Band5	4233	4.126	4.700	---	PASS

### 4.2. Test Plots

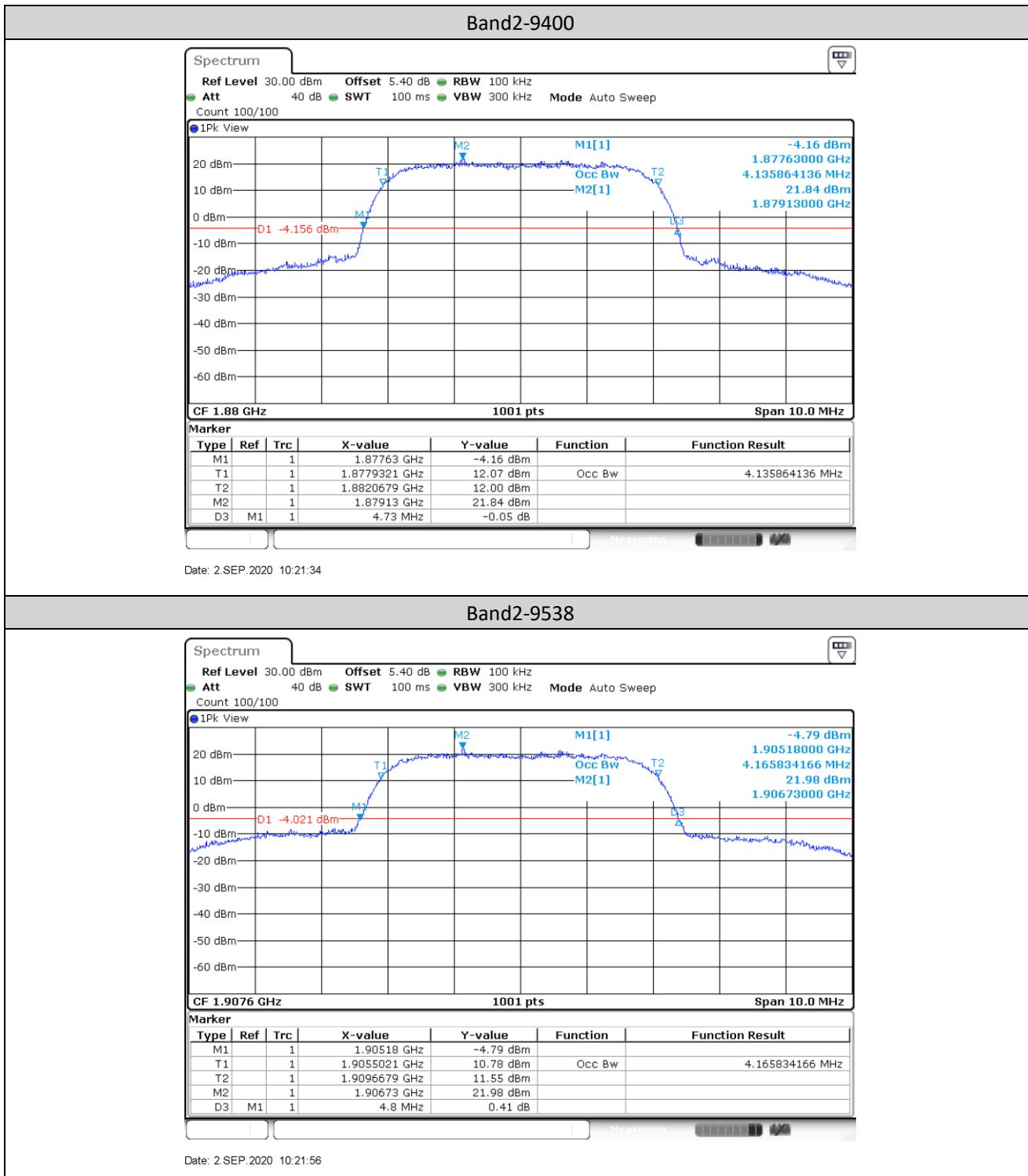


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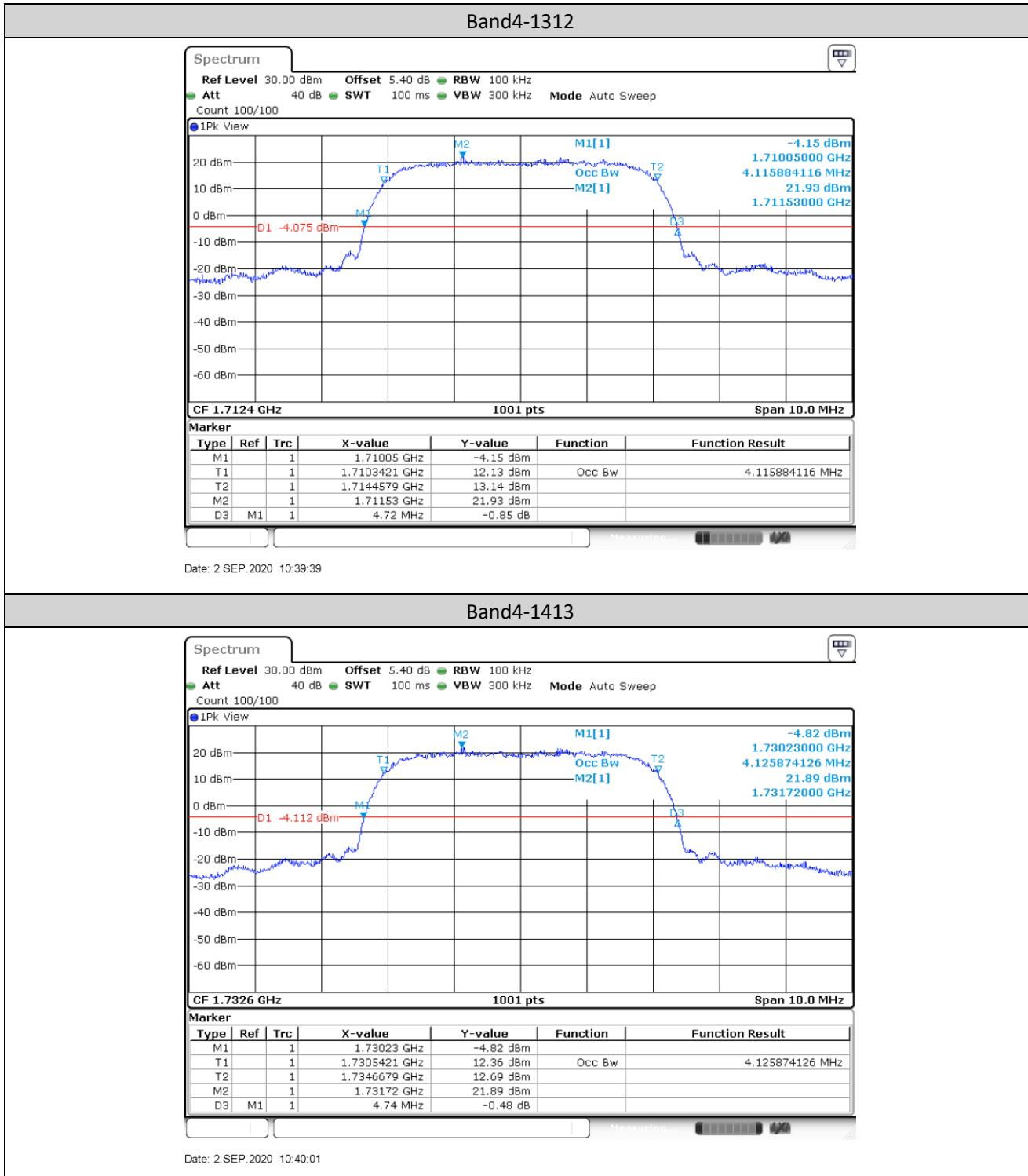
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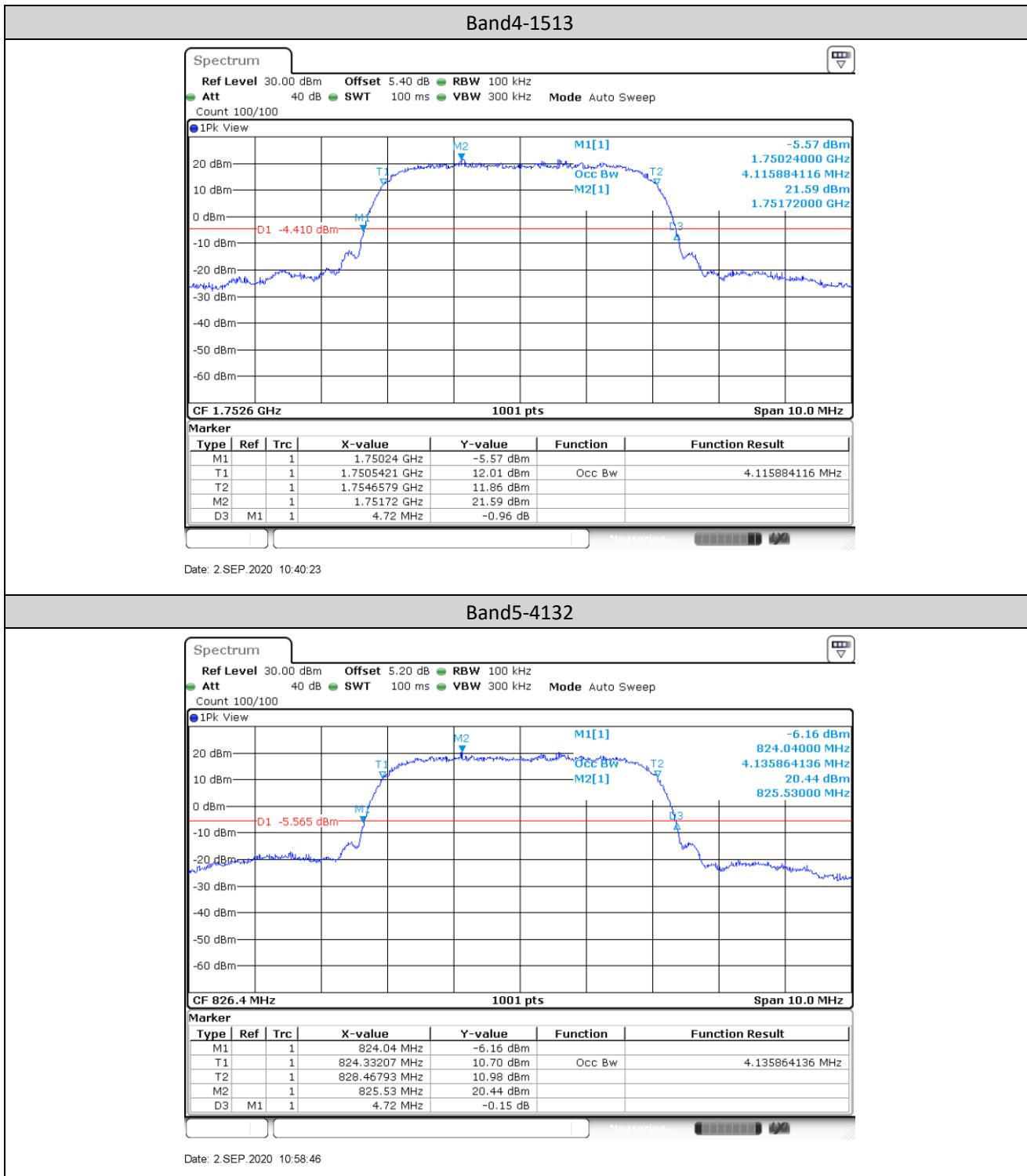


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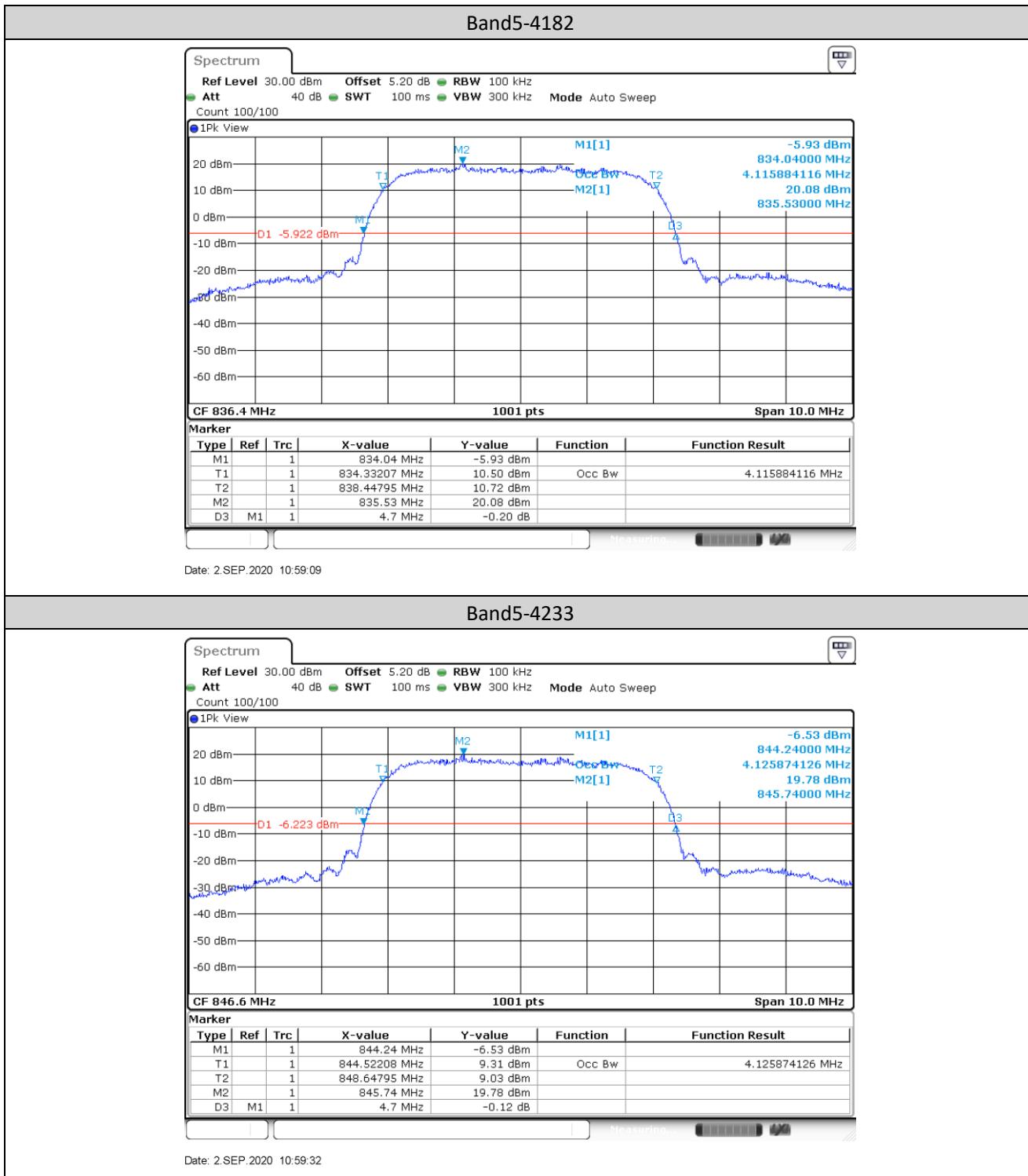
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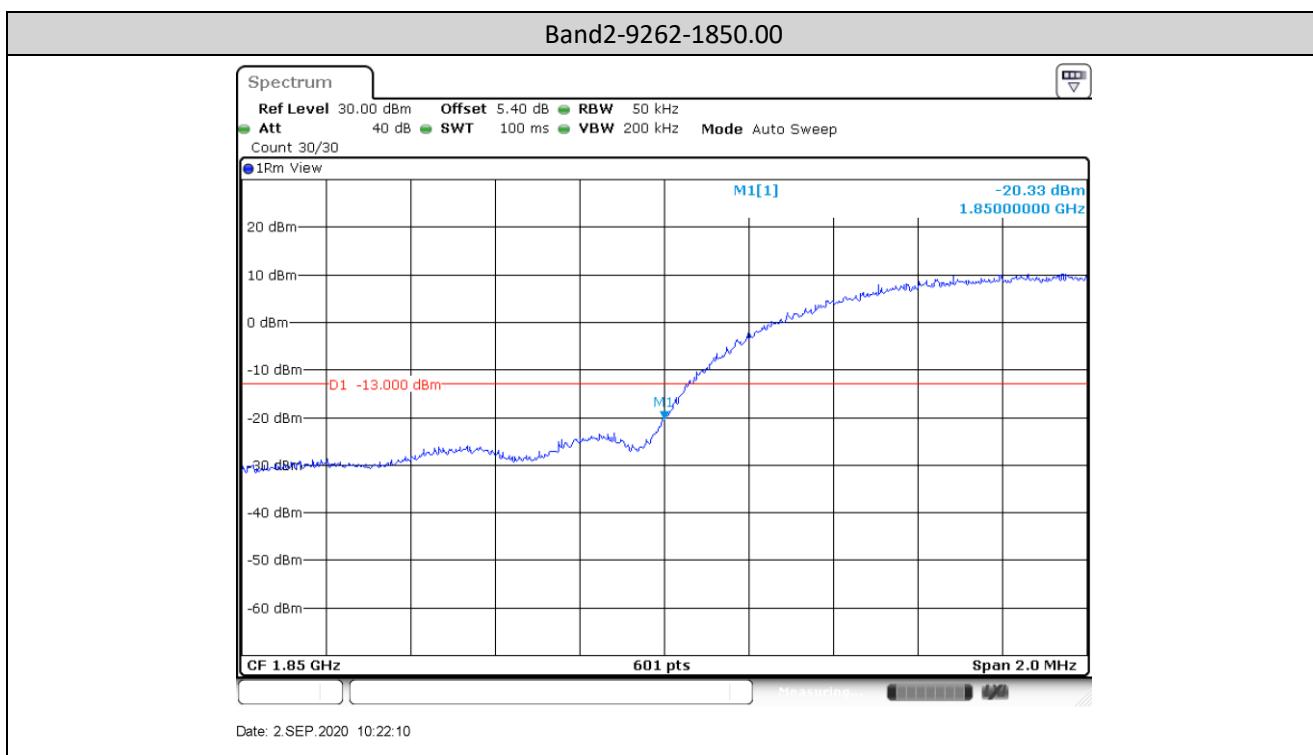
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## 5. Band Edge Compliance

### 5.1. Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-19.91	-13	PASS
Band2	9538	1910.00	-15.44	-13	PASS
Band4	1312	1710.00	-22.44	-13	PASS
Band4	1513	1755.00	-21.88	-13	PASS
Band5	4132	823.89	-21.75	-13	PASS
Band5	4233	849.18	-25.64	-13	PASS

### 5.2. Test Plots



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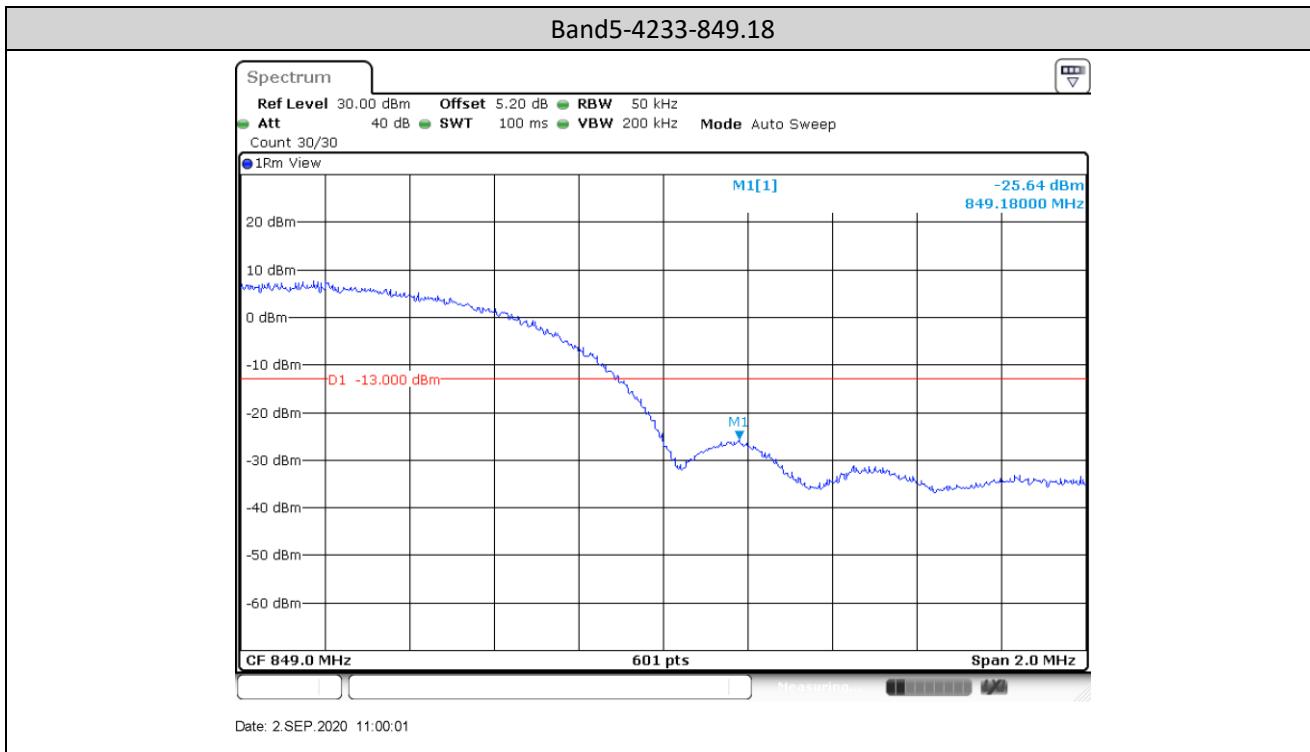


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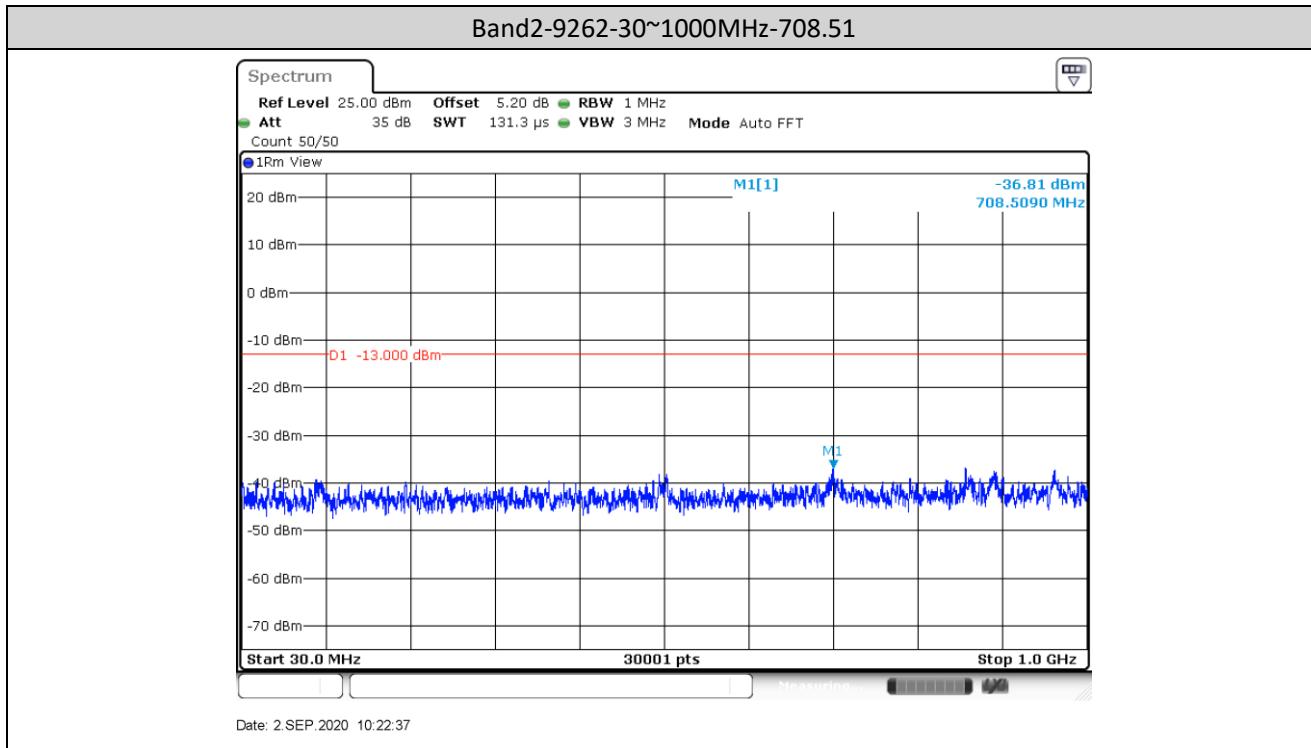
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## 6. Spurious Emission at Antenna Terminal

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  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " 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

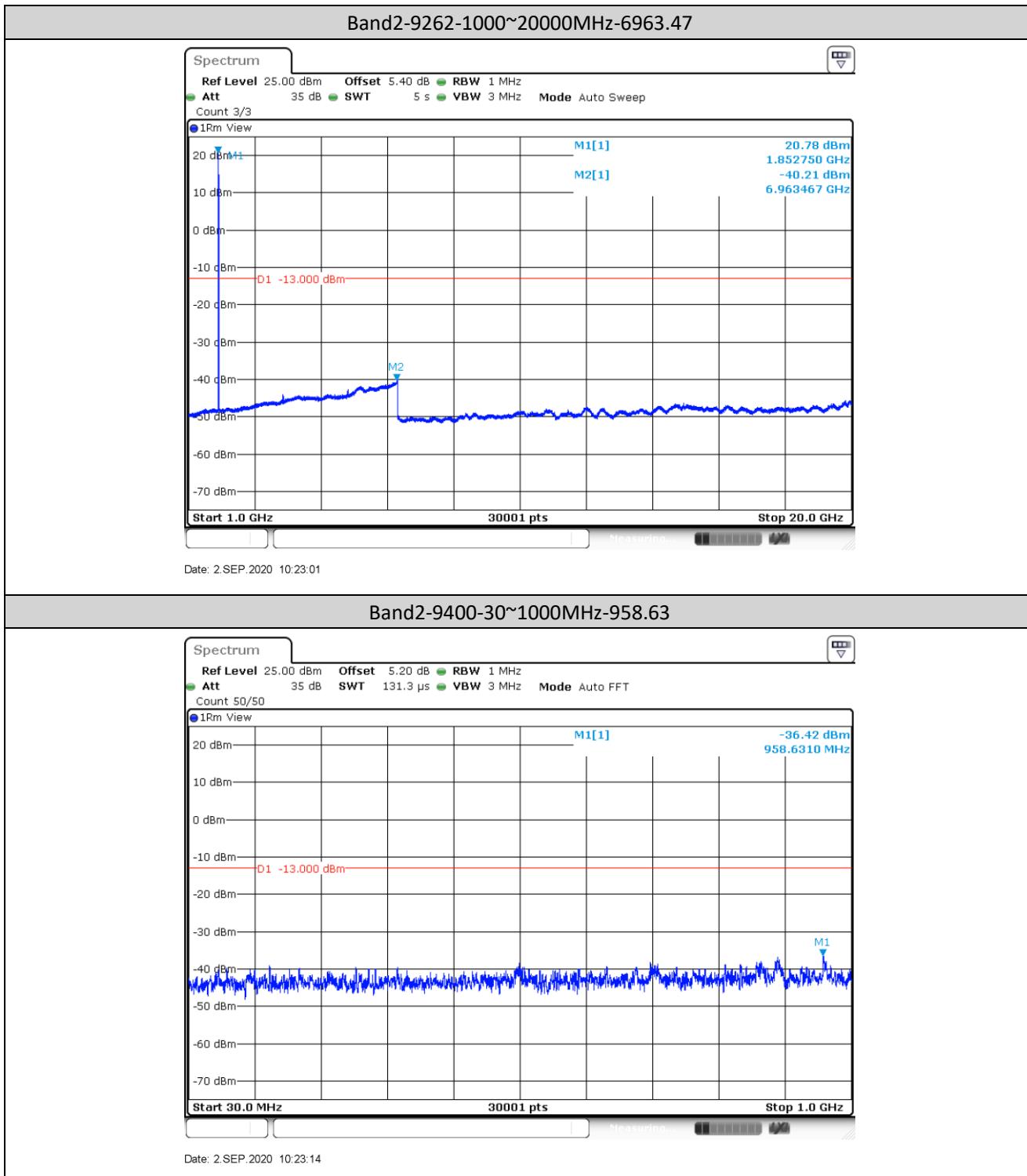


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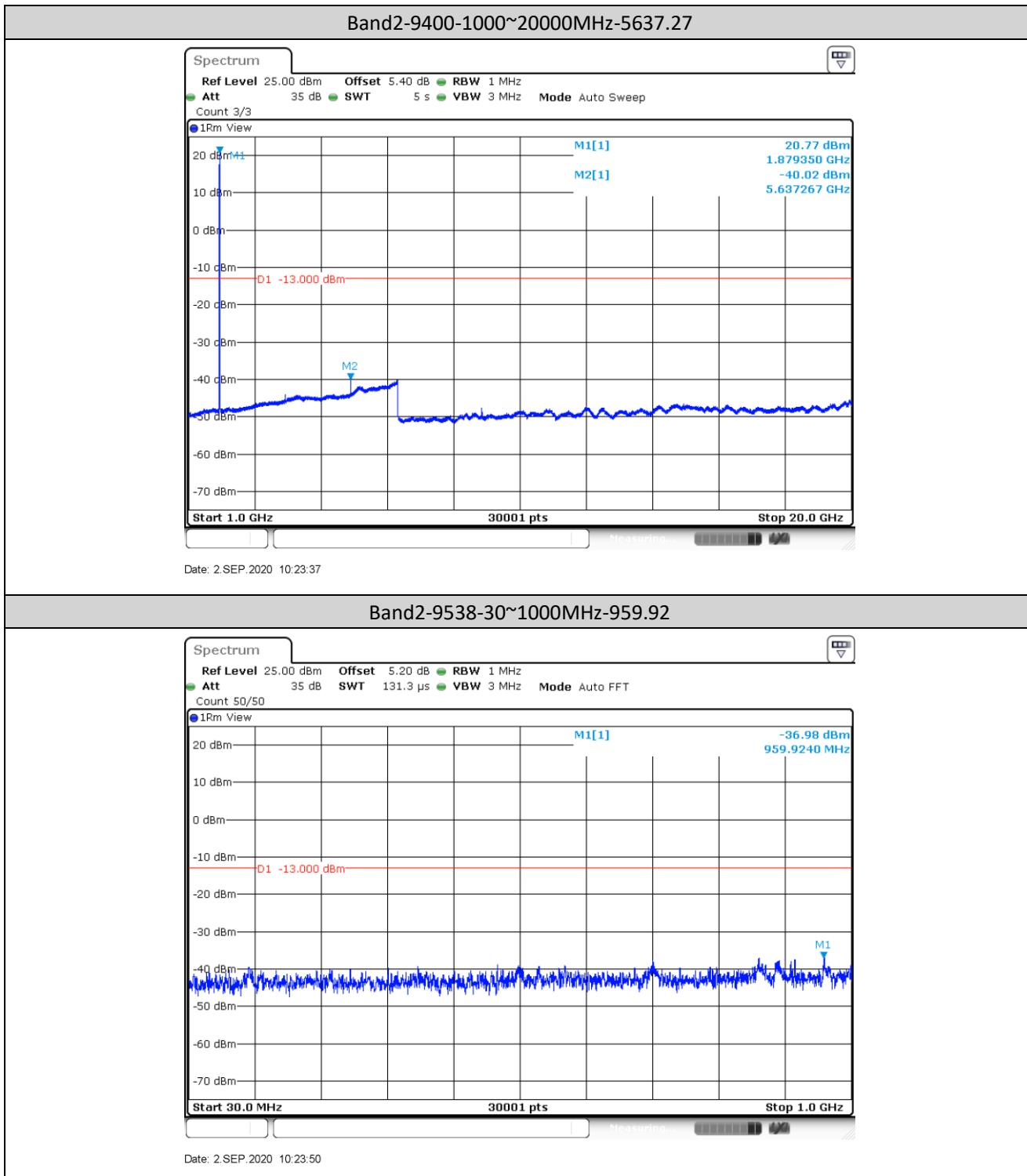
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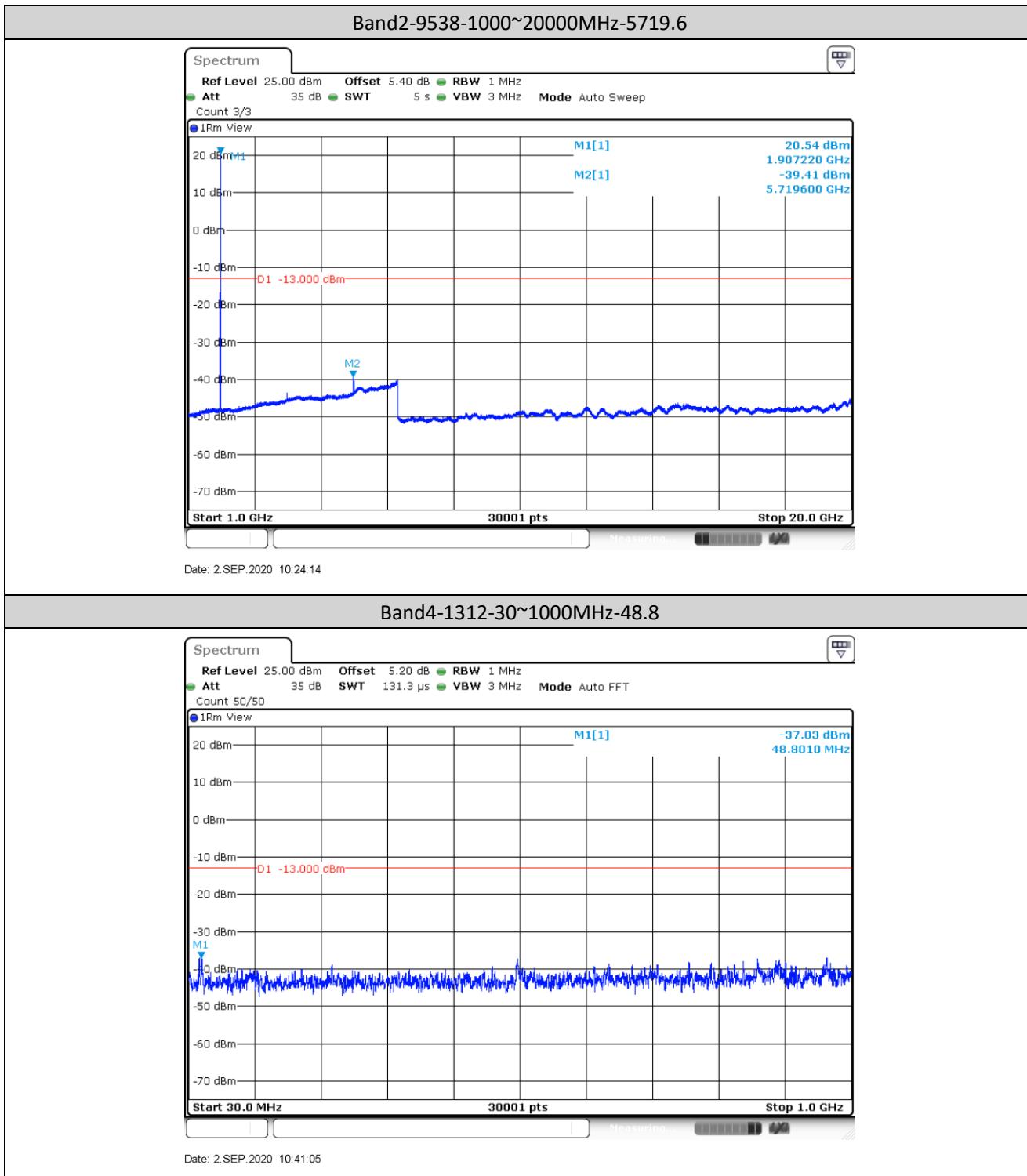


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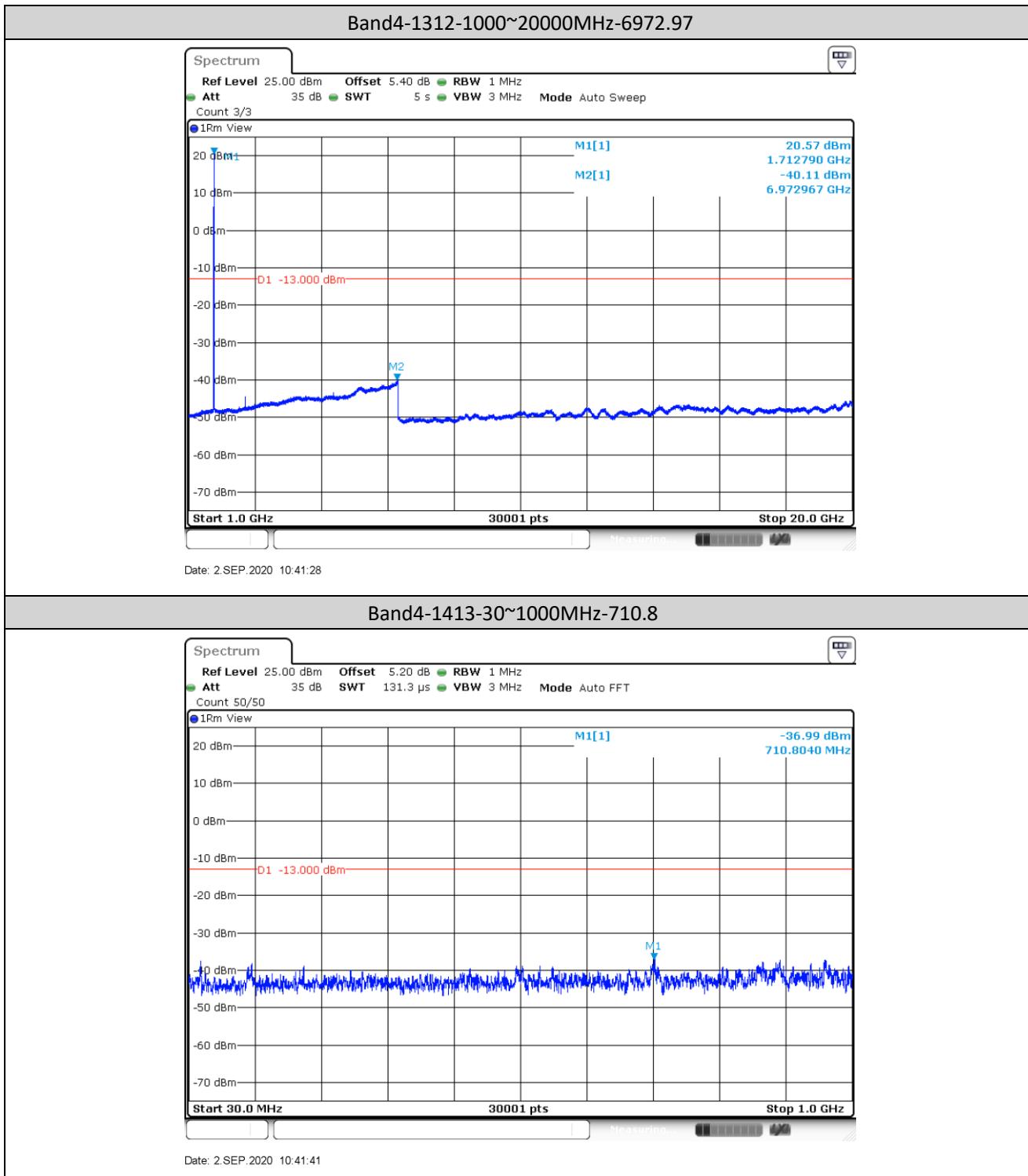


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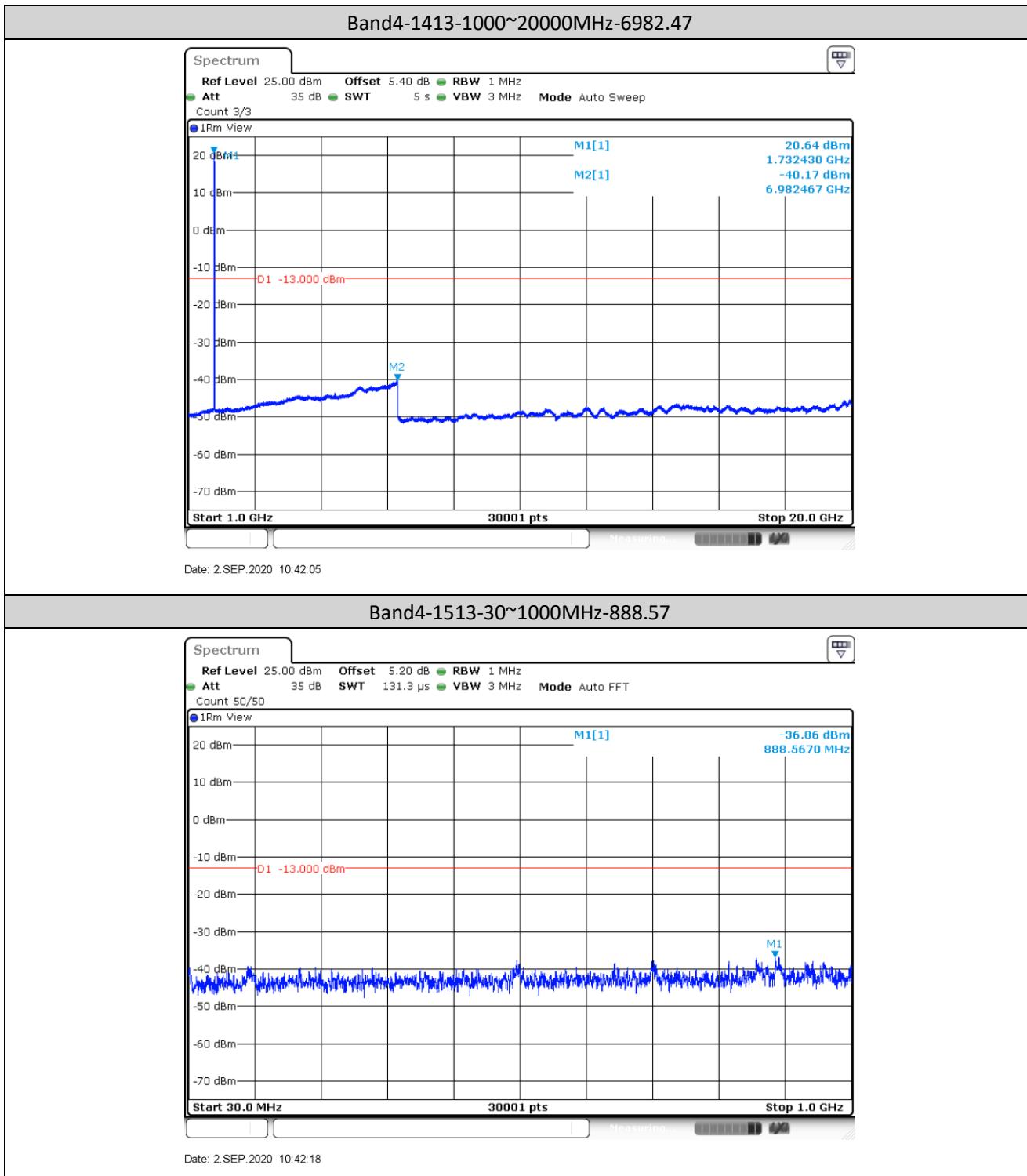


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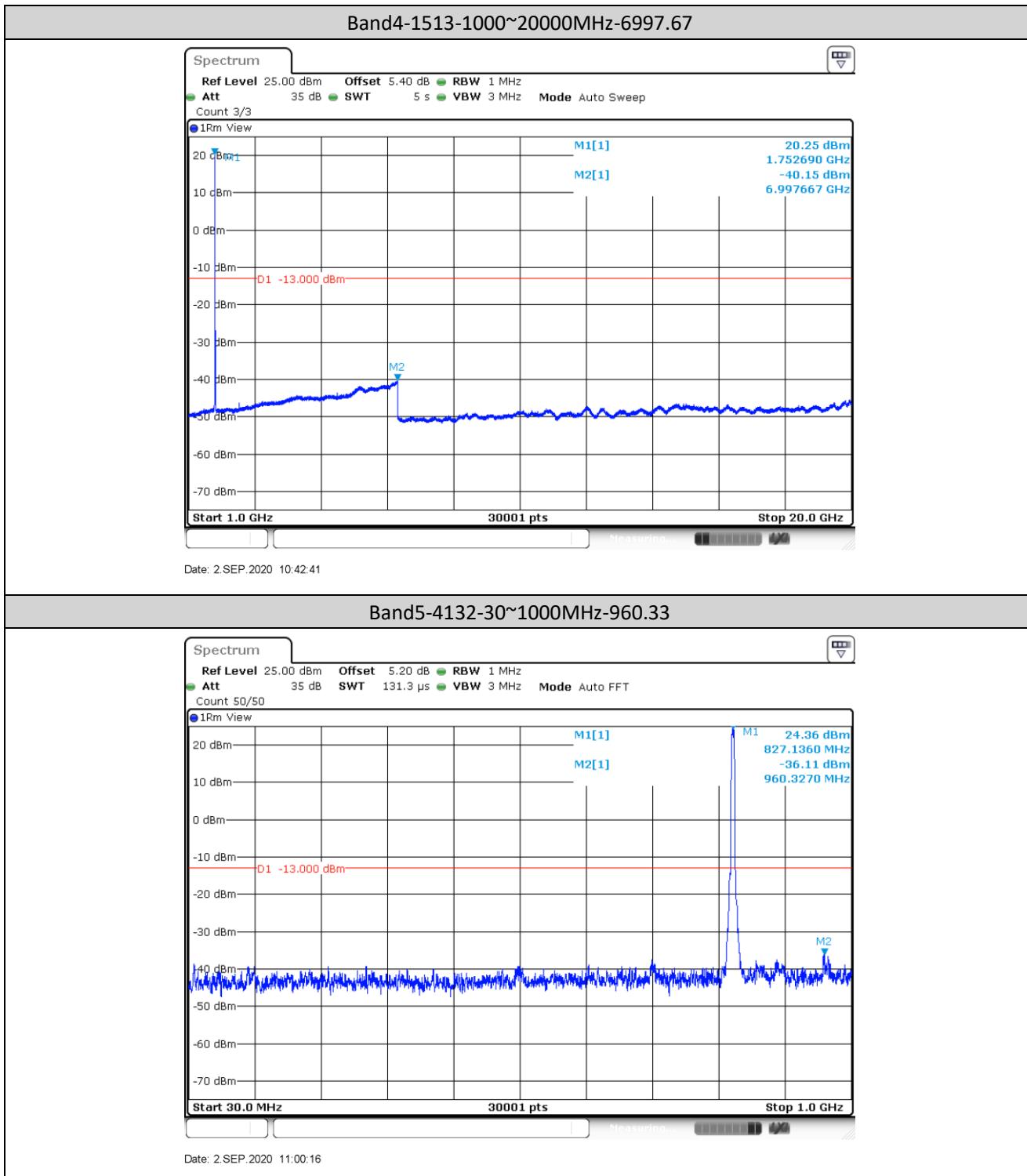


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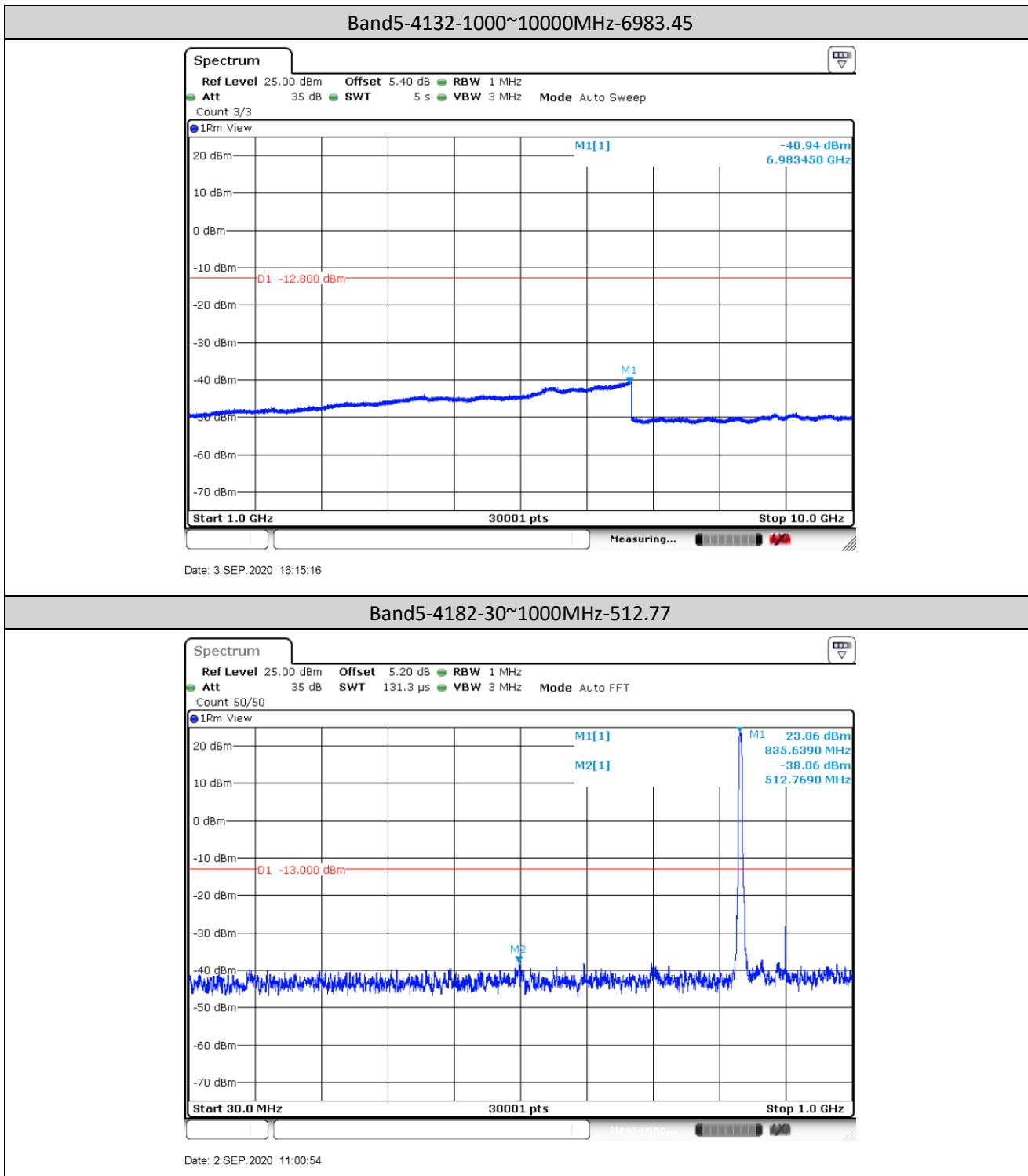


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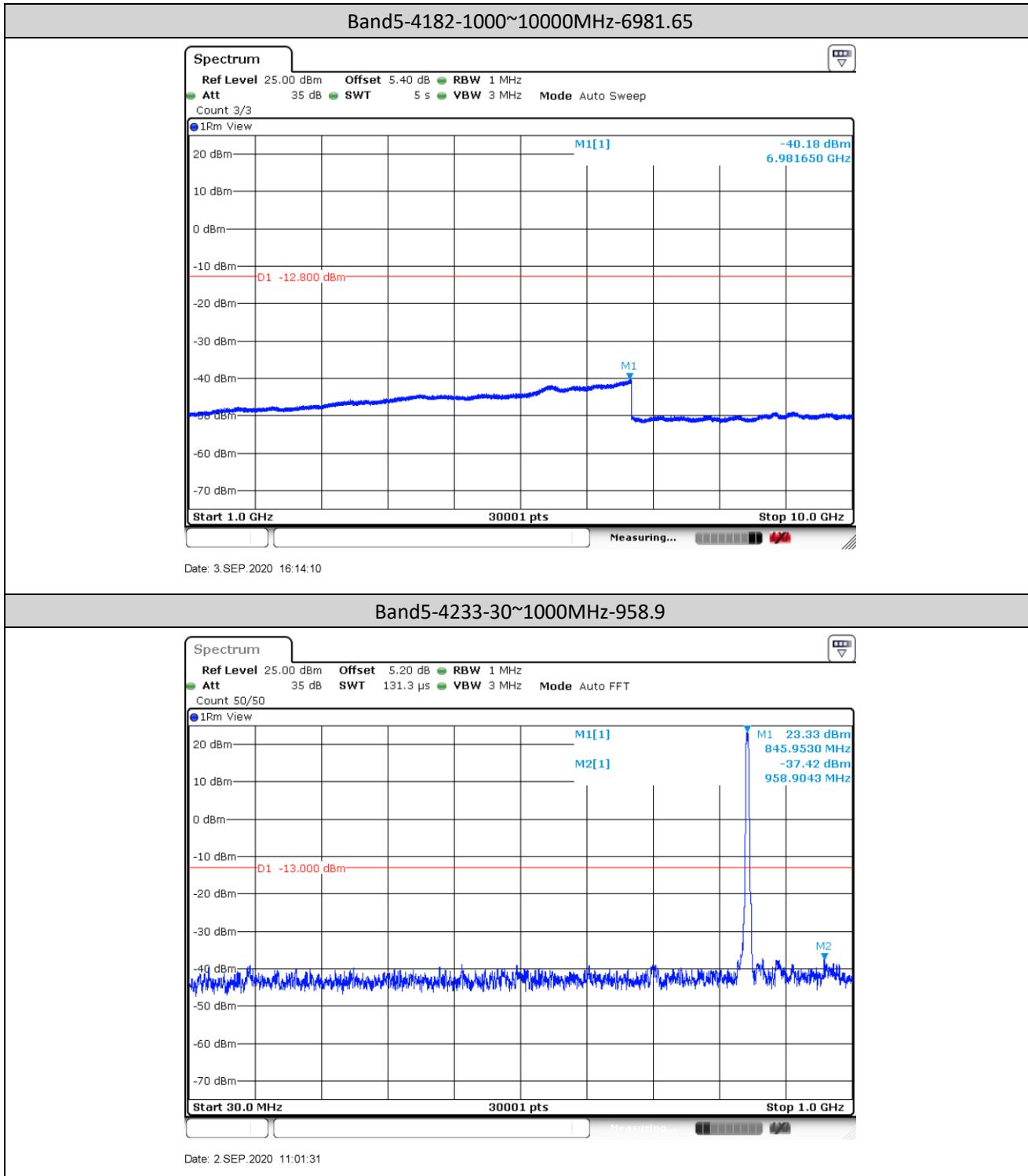


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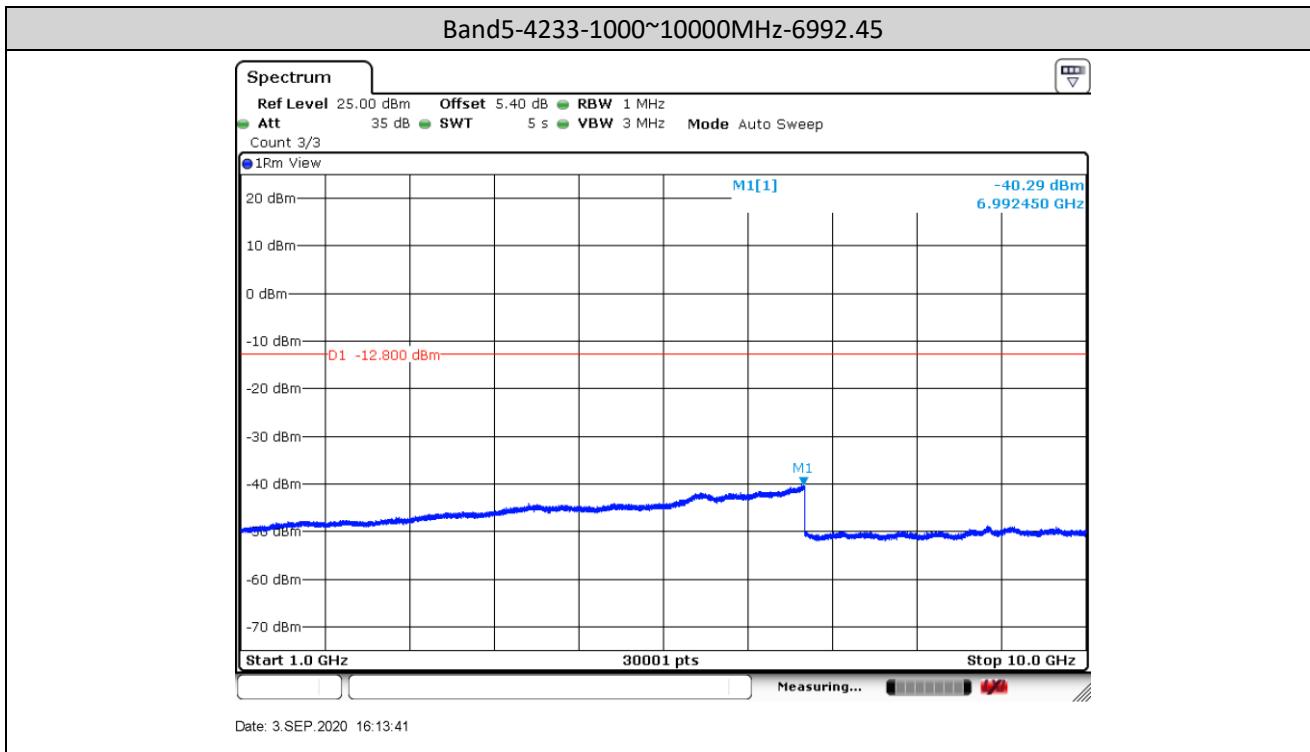
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## 7. Field Strength of Spurious Radiation

### 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
110.0290	-64.58	-13.00	51.58	258	184	Vertical
2696.3393	-36.66	-13.00	23.66	174	281	Vertical
3706.0235	-50.69	-13.00	37.69	196	254	Vertical
5560.5854	-39.99	-13.00	26.99	321	222	Vertical
7414.6472	-49.83	-13.00	36.83	252	222	Vertical
17997.4999	-40.41	-13.00	27.41	261	286	Vertical
43.0472	-64.07	-13.00	51.07	245	360	Horizontal
230.0240	-67.71	-13.00	54.71	205	258	Horizontal
2699.1398	-35.56	-13.00	22.56	126	19	Horizontal
3706.5236	-50.12	-13.00	37.12	185	258	Horizontal
5559.5853	-39.20	-13.00	26.20	196	122	Horizontal
16386.4462	-43.58	-13.00	30.58	157	157	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.6595	-65.05	-13.00	52.05	158	210	Vertical
605.6268	-63.71	-13.00	50.71	174	245	Vertical
3761.5254	-49.50	-13.00	36.50	196	118	Vertical
5642.5881	-39.12	-13.00	26.12	258	210	Vertical
7524.6508	-49.75	-13.00	36.75	261	41	Vertical
17997.9999	-39.97	-13.00	26.97	233	118	Vertical

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39.3610	-64.10	-13.00	51.10	321	108	Horizontal
226.1438	-67.58	-13.00	54.58	158	353	Horizontal
2697.1394	-35.55	-13.00	22.55	196	186	Horizontal
3761.5254	-48.92	-13.00	35.92	184	25	Horizontal
5643.0881	-38.82	-13.00	25.82	231	108	Horizontal
16365.4455	-43.89	-13.00	30.89	255	176	Horizontal

### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.0775	-64.84	-13.00	51.84	258	316	Vertical
846.2958	-61.27	-13.00	48.27	215	114	Vertical
3813.5271	-51.76	-13.00	38.76	166	114	Vertical
5720.0907	-36.81	-13.00	23.81	122	217	Vertical
7633.1544	-51.91	-13.00	38.91	252	49	Vertical
17995.4999	-39.62	-13.00	26.62	211	285	Vertical
40.8645	-63.94	-13.00	50.94	158	174	Horizontal
240.4035	-67.99	-13.00	54.99	258	76	Horizontal
2697.9396	-35.44	-13.00	22.44	261	16	Horizontal
3813.5271	-49.23	-13.00	36.23	154	44	Horizontal
5726.0909	-36.74	-13.00	23.74	184	108	Horizontal
16387.4462	-43.46	-13.00	30.46	195	11	Horizontal

## 7.2. Test Band = WCDMA Band IV

### 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
111.2416	-62.62	-13.00	49.62	174	110	Vertical
728.4349	-59.70	-13.00	46.70	185	154	Vertical
2703.9408	-31.91	-13.00	18.91	196	253	Vertical

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5140.0713	-36.51	-13.00	23.51	231	186	Vertical
6846.6282	-50.14	-13.00	37.14	226	186	Vertical
17990.4997	-33.96	-13.00	20.96	219	339	Vertical
41.7861	-61.96	-13.00	48.96	258	212	Horizontal
230.4120	-64.87	-13.00	51.87	174	324	Horizontal
2702.3405	-30.96	-13.00	17.96	196	248	Horizontal
5140.0713	-35.26	-13.00	22.26	321	48	Horizontal
6846.6282	-51.90	-13.00	38.90	262	212	Horizontal
16395.9465	-35.41	-13.00	22.41	266	145	Horizontal

### 7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
113.1817	-62.86	-13.00	49.86	222	360	Vertical
445.3748	-65.21	-13.00	52.21	205	183	Vertical
2699.9400	-32.06	-13.00	19.06	165	108	Vertical
5194.5732	-44.05	-13.00	31.05	184	360	Vertical
9330.2110	-48.89	-13.00	35.89	196	232	Vertical
17996.9999	-34.12	-13.00	21.12	159	232	Vertical
40.4280	-61.96	-13.00	48.96	159	16	Horizontal
244.7687	-65.47	-13.00	52.47	196	306	Horizontal
2693.5387	-30.77	-13.00	17.77	258	184	Horizontal
5195.0732	-42.99	-13.00	29.99	264	48	Horizontal
9999.2333	-49.78	-13.00	36.78	281	238	Horizontal
16396.9466	-35.34	-13.00	22.34	154	343	Horizontal

### 7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
108.1374	-62.40	-13.00	49.40	159	344	Vertical
605.6268	-60.72	-13.00	47.72	148	72	Vertical
2693.5387	-32.28	-13.00	19.28	258	232	Vertical

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5261.0754	-38.34	-13.00	25.34	262	201	Vertical
7007.6336	-51.34	-13.00	38.34	205	8	Vertical
17997.4999	-34.32	-13.00	21.32	154	72	Vertical
42.2711	-62.88	-13.00	49.88	185	216	Horizontal
239.1910	-64.44	-13.00	51.44	196	281	Horizontal
2693.1386	-31.04	-13.00	18.04	165	84	Horizontal
5254.0751	-37.18	-13.00	24.18	158	44	Horizontal
7013.6338	-50.59	-13.00	37.59	251	179	Horizontal
16389.4463	-35.53	-13.00	22.53	225	11	Horizontal

### 7.3. Test Band = WCDMA Band V

#### 7.3.1. Test Mode =WCDMA/TM1

##### 7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
54.1057	-72.76	-13.00	59.76	174	306	Vertical
111.2416	-65.15	-13.00	52.15	185	86	Vertical
1654.5309	-47.93	-13.00	34.93	196	231	Vertical
2459.4919	-48.78	-13.00	35.78	231	339	Vertical
4131.0044	-59.78	-13.00	46.78	262	19	Vertical
9887.0629	-52.28	-13.00	39.28	261	19	Vertical
44.7447	-63.00	-13.00	50.00	158	144	Horizontal
243.2652	-68.11	-13.00	55.11	196	110	Horizontal
1654.5309	-45.17	-13.00	32.17	184	0	Horizontal
2476.6953	-44.95	-13.00	31.95	231	319	Horizontal
4125.6375	-59.95	-13.00	46.95	262	222	Horizontal
9339.1780	-52.57	-13.00	39.57	264	110	Horizontal

##### 7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization

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50.1285	-72.76	-13.00	59.76	158	79	Vertical
111.5811	-65.21	-13.00	52.21	163	360	Vertical
1674.5349	-46.89	-13.00	33.89	256	223	Vertical
2511.9024	-48.47	-13.00	35.47	248	187	Vertical
5518.2173	-61.60	-13.00	48.60	294	360	Vertical
9338.9446	-52.58	-13.00	39.58	215	116	Vertical
40.8645	-64.40	-13.00	51.40	185	70	Horizontal
235.2138	-67.86	-13.00	54.86	159	206	Horizontal
1674.5349	-42.86	-13.00	29.86	262	59	Horizontal
2511.9024	-44.75	-13.00	31.75	215	16	Horizontal
5988.1663	-60.58	-13.00	47.58	231	70	Horizontal
9310.7104	-52.86	-13.00	39.86	208	206	Horizontal

### 7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
52.0686	-72.64	-13.00	59.64	158	304	Vertical
114.2972	-64.55	-13.00	51.55	196	229	Vertical
1691.7383	-44.63	-13.00	31.63	321	232	Vertical
2536.7073	-46.97	-13.00	33.97	252	186	Vertical
4237.8746	-60.03	-13.00	47.03	214	266	Vertical
9864.6622	-52.28	-13.00	39.28	164	266	Vertical
44.4052	-64.10	-13.00	51.10	158	195	Horizontal
228.5689	-68.35	-13.00	55.35	196	195	Horizontal
1694.9390	-41.86	-13.00	28.86	184	0	Horizontal
2537.1074	-44.67	-13.00	31.67	321	15	Horizontal
4237.1746	-59.71	-13.00	46.71	262	230	Horizontal
9313.9771	-52.91	-13.00	39.91	261	230	Horizontal

Remark:

- 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.

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2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Channel	Voltage						Verdict
		Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band2	9262	VL	NT	2.27	0.001225	±2.5	PASS	
Band2	9262	VN	NT	2.21	0.001193	±2.5	PASS	
Band2	9262	VH	NT	2.31	0.001247	±2.5	PASS	
Band2	9400	VL	NT	-0.64	-0.000340	±2.5	PASS	
Band2	9400	VN	NT	-0.52	-0.000277	±2.5	PASS	
Band2	9400	VH	NT	-0.82	-0.000436	±2.5	PASS	
Band2	9538	VL	NT	-5.26	-0.002757	±2.5	PASS	
Band2	9538	VN	NT	-5.04	-0.002642	±2.5	PASS	
Band2	9538	VH	NT	-5.55	-0.002909	±2.5	PASS	
Band4	1312	VL	NT	15.58	0.009098	±2.5	PASS	
Band4	1312	VN	NT	15.90	0.009285	±2.5	PASS	
Band4	1312	VH	NT	16.16	0.009437	±2.5	PASS	
Band4	1413	VL	NT	-0.01	-0.000006	±2.5	PASS	
Band4	1413	VN	NT	-0.09	-0.000052	±2.5	PASS	
Band4	1413	VH	NT	-0.27	-0.000156	±2.5	PASS	
Band4	1513	VL	NT	-14.71	-0.008393	±2.5	PASS	
Band4	1513	VN	NT	-14.97	-0.008542	±2.5	PASS	
Band4	1513	VH	NT	-14.66	-0.008365	±2.5	PASS	
Band5	4132	VL	NT	1.64	0.001985	±2.5	PASS	
Band5	4132	VN	NT	1.62	0.001960	±2.5	PASS	
Band5	4132	VH	NT	1.67	0.002021	±2.5	PASS	
Band5	4182	VL	NT	0.04	0.000048	±2.5	PASS	
Band5	4182	VN	NT	-0.01	-0.000012	±2.5	PASS	
Band5	4182	VH	NT	-0.16	-0.000191	±2.5	PASS	
Band5	4233	VL	NT	-1.81	-0.002138	±2.5	PASS	
Band5	4233	VN	NT	-1.87	-0.002209	±2.5	PASS	
Band5	4233	VH	NT	-1.97	-0.002327	±2.5	PASS	

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## 8.2. Frequency Vs Temperature

Band	Channel	Voltage (Vdc)	Temperature				
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	2.61	0.001409	±2.5	PASS
Band2	9262	NV	-20	2.90	0.001566	±2.5	PASS
Band2	9262	NV	-10	3.05	0.001647	±2.5	PASS
Band2	9262	NV	0	3.40	0.001835	±2.5	PASS
Band2	9262	NV	10	3.15	0.001700	±2.5	PASS
Band2	9262	NV	20	3.20	0.001727	±2.5	PASS
Band2	9262	NV	30	3.24	0.001749	±2.5	PASS
Band2	9262	NV	40	3.44	0.001857	±2.5	PASS
Band2	9262	NV	50	3.61	0.001949	±2.5	PASS
Band2	9400	NV	-30	-1.00	-0.000532	±2.5	PASS
Band2	9400	NV	-20	-1.16	-0.000617	±2.5	PASS
Band2	9400	NV	-10	-0.84	-0.000447	±2.5	PASS
Band2	9400	NV	0	-0.98	-0.000521	±2.5	PASS
Band2	9400	NV	10	-0.79	-0.000420	±2.5	PASS
Band2	9400	NV	20	-0.68	-0.000362	±2.5	PASS
Band2	9400	NV	30	-0.82	-0.000436	±2.5	PASS
Band2	9400	NV	40	-0.70	-0.000372	±2.5	PASS
Band2	9400	NV	50	-0.67	-0.000356	±2.5	PASS
Band2	9538	NV	-30	-5.58	-0.002925	±2.5	PASS
Band2	9538	NV	-20	-5.31	-0.002784	±2.5	PASS
Band2	9538	NV	-10	-5.16	-0.002705	±2.5	PASS
Band2	9538	NV	0	-5.06	-0.002653	±2.5	PASS
Band2	9538	NV	10	-5.44	-0.002852	±2.5	PASS
Band2	9538	NV	20	-5.53	-0.002899	±2.5	PASS
Band2	9538	NV	30	-5.36	-0.002810	±2.5	PASS
Band2	9538	NV	40	-5.51	-0.002888	±2.5	PASS
Band2	9538	NV	50	-5.34	-0.002799	±2.5	PASS
Band4	1312	NV	-30	15.80	0.009227	±2.5	PASS
Band4	1312	NV	-20	15.97	0.009326	±2.5	PASS
Band4	1312	NV	-10	15.76	0.009203	±2.5	PASS
Band4	1312	NV	0	15.76	0.009203	±2.5	PASS
Band4	1312	NV	10	15.87	0.009268	±2.5	PASS
Band4	1312	NV	20	15.96	0.009320	±2.5	PASS

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Band4	1312	NV	30	15.76	0.009203	±2.5	PASS
Band4	1312	NV	40	15.75	0.009198	±2.5	PASS
Band4	1312	NV	50	15.83	0.009244	±2.5	PASS
Band4	1413	NV	-30	-0.08	-0.000046	±2.5	PASS
Band4	1413	NV	-20	-0.26	-0.000150	±2.5	PASS
Band4	1413	NV	-10	-0.16	-0.000092	±2.5	PASS
Band4	1413	NV	0	0.03	0.000017	±2.5	PASS
Band4	1413	NV	10	-0.12	-0.000069	±2.5	PASS
Band4	1413	NV	20	-0.16	-0.000092	±2.5	PASS
Band4	1413	NV	30	-0.24	-0.000139	±2.5	PASS
Band4	1413	NV	40	-0.14	-0.000081	±2.5	PASS
Band4	1413	NV	50	-0.17	-0.000098	±2.5	PASS
Band4	1513	NV	-30	-14.79	-0.008439	±2.5	PASS
Band4	1513	NV	-20	-14.84	-0.008467	±2.5	PASS
Band4	1513	NV	-10	-14.84	-0.008467	±2.5	PASS
Band4	1513	NV	0	-14.98	-0.008547	±2.5	PASS
Band4	1513	NV	10	-14.73	-0.008405	±2.5	PASS
Band4	1513	NV	20	-14.86	-0.008479	±2.5	PASS
Band4	1513	NV	30	-14.56	-0.008308	±2.5	PASS
Band4	1513	NV	40	-14.68	-0.008376	±2.5	PASS
Band4	1513	NV	50	-14.61	-0.008336	±2.5	PASS
Band5	4132	NV	-30	1.70	0.002057	±2.5	PASS
Band5	4132	NV	-20	1.50	0.001815	±2.5	PASS
Band5	4132	NV	-10	1.67	0.002021	±2.5	PASS
Band5	4132	NV	0	1.68	0.002033	±2.5	PASS
Band5	4132	NV	10	1.63	0.001972	±2.5	PASS
Band5	4132	NV	20	1.75	0.002118	±2.5	PASS
Band5	4132	NV	30	1.75	0.002118	±2.5	PASS
Band5	4132	NV	40	1.80	0.002178	±2.5	PASS
Band5	4132	NV	50	2.07	0.002505	±2.5	PASS
Band5	4182	NV	-30	-0.16	-0.000191	±2.5	PASS
Band5	4182	NV	-20	-0.19	-0.000227	±2.5	PASS
Band5	4182	NV	-10	-0.07	-0.000084	±2.5	PASS
Band5	4182	NV	0	-0.09	-0.000108	±2.5	PASS
Band5	4182	NV	10	-0.13	-0.000155	±2.5	PASS
Band5	4182	NV	20	-0.11	-0.000132	±2.5	PASS
Band5	4182	NV	30	-0.18	-0.000215	±2.5	PASS

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Band5	4182	NV	40	-0.21	-0.000251	±2.5	PASS
Band5	4182	NV	50	-0.18	-0.000215	±2.5	PASS
Band5	4233	NV	-30	-1.92	-0.002268	±2.5	PASS
Band5	4233	NV	-20	-1.91	-0.002256	±2.5	PASS
Band5	4233	NV	-10	-1.94	-0.002292	±2.5	PASS
Band5	4233	NV	0	-1.96	-0.002315	±2.5	PASS
Band5	4233	NV	10	-1.73	-0.002043	±2.5	PASS
Band5	4233	NV	20	-1.85	-0.002185	±2.5	PASS
Band5	4233	NV	30	-1.92	-0.002268	±2.5	PASS
Band5	4233	NV	40	-1.99	-0.002351	±2.5	PASS
Band5	4233	NV	50	-2.22	-0.002622	±2.5	PASS

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