

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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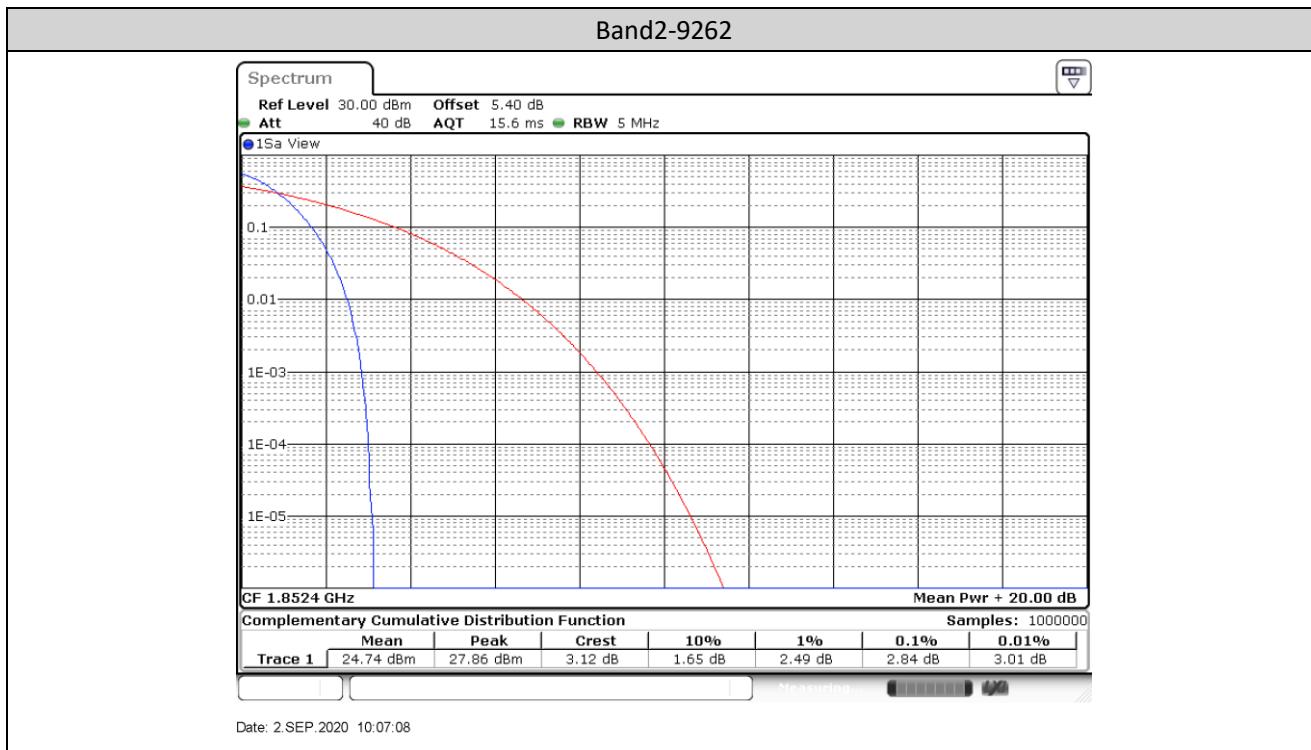
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2. Peak-to-Average Ratio(CCDF)

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

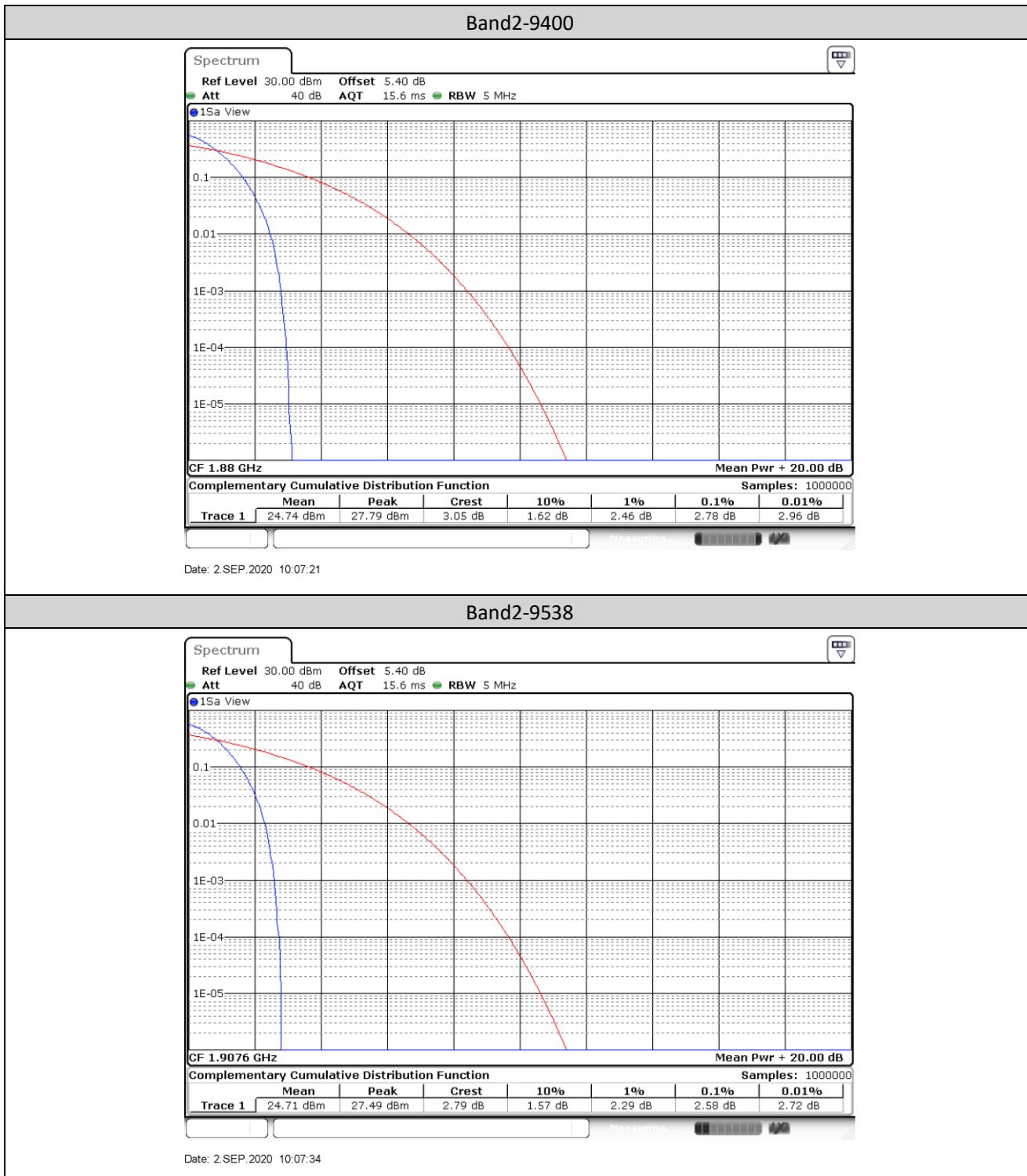


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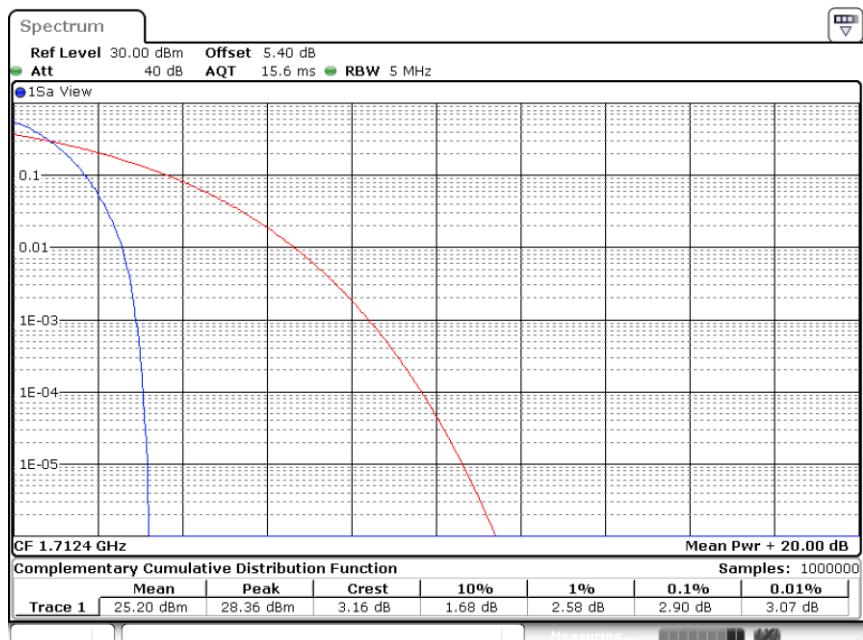


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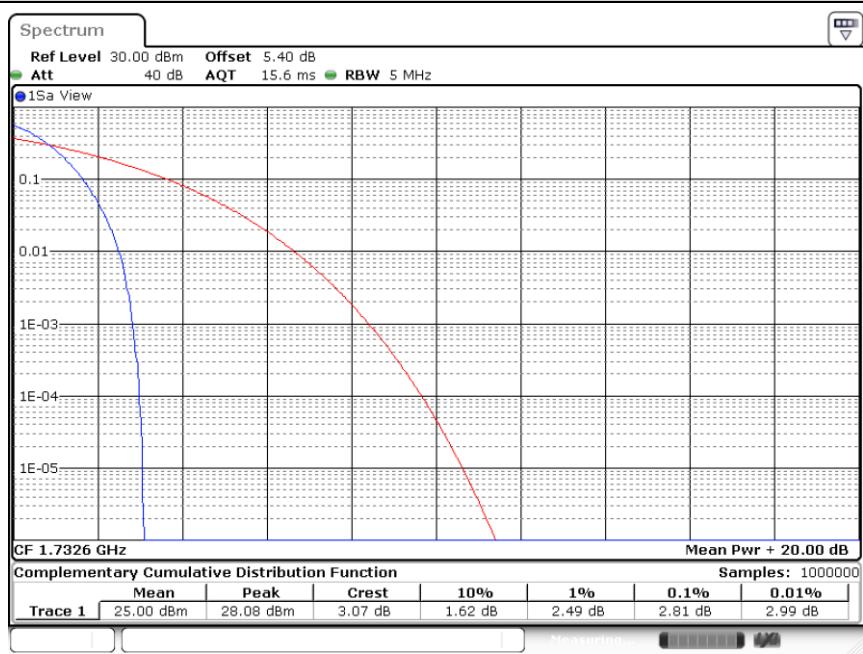


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Band4-1413



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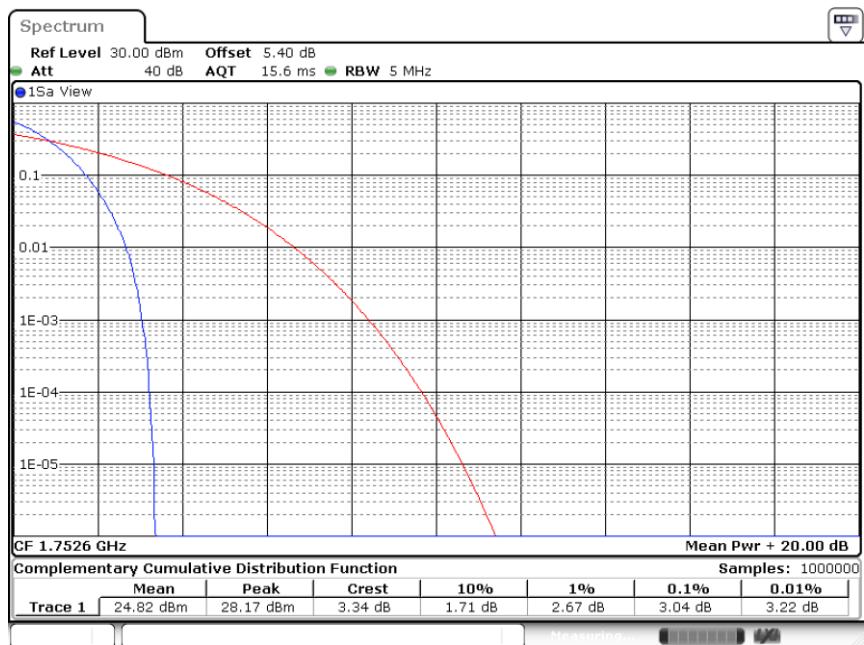
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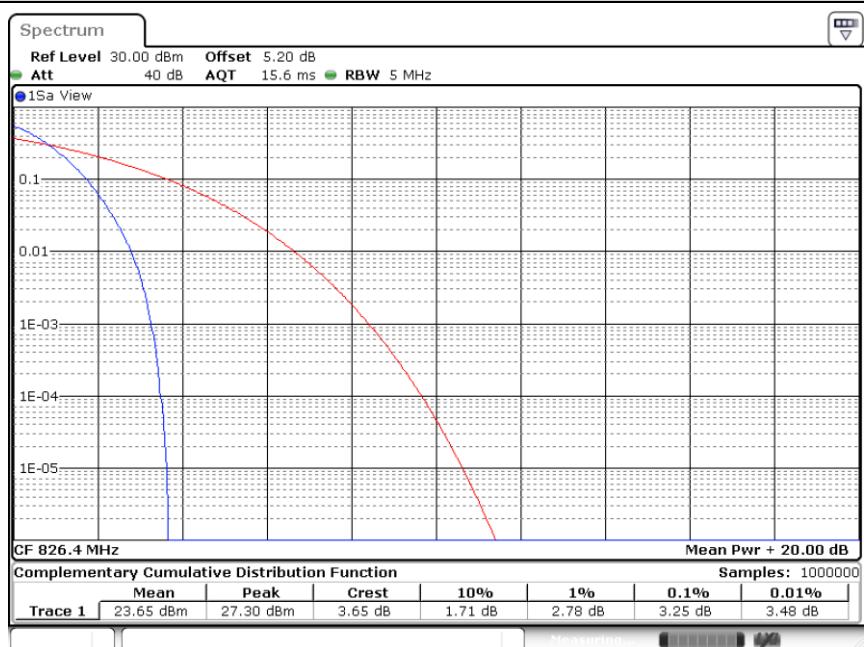
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Band4-1513



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Band5-4132



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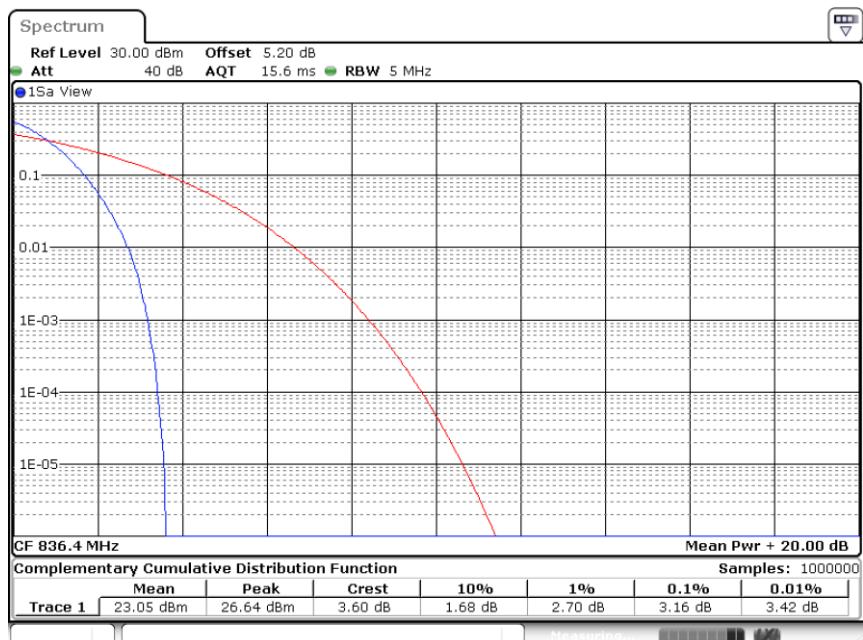
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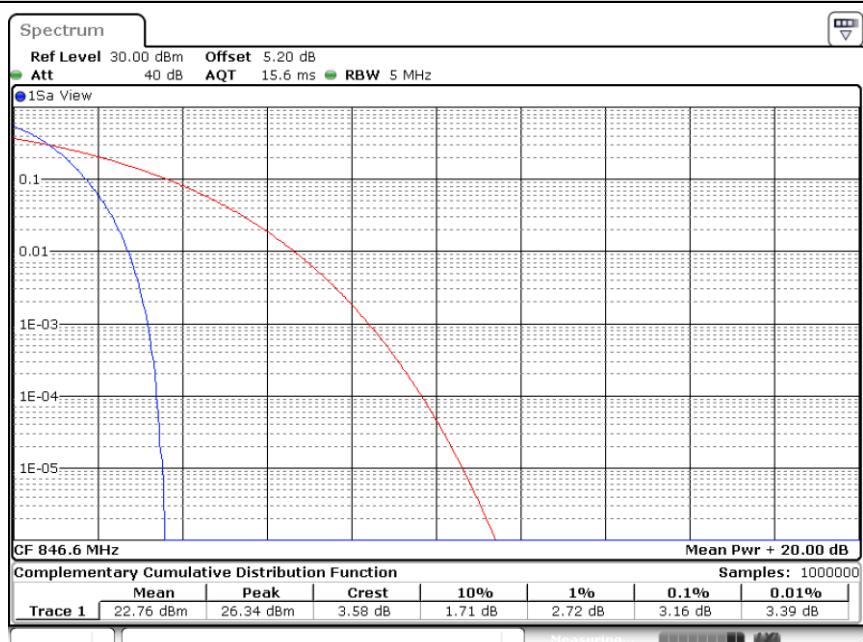
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Band5-4233



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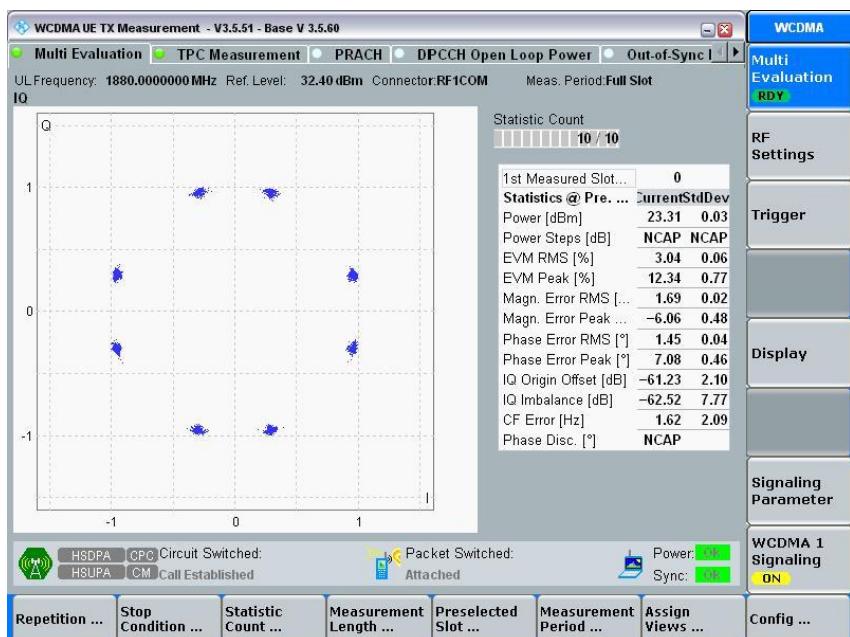
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3. Modulation Characteristics

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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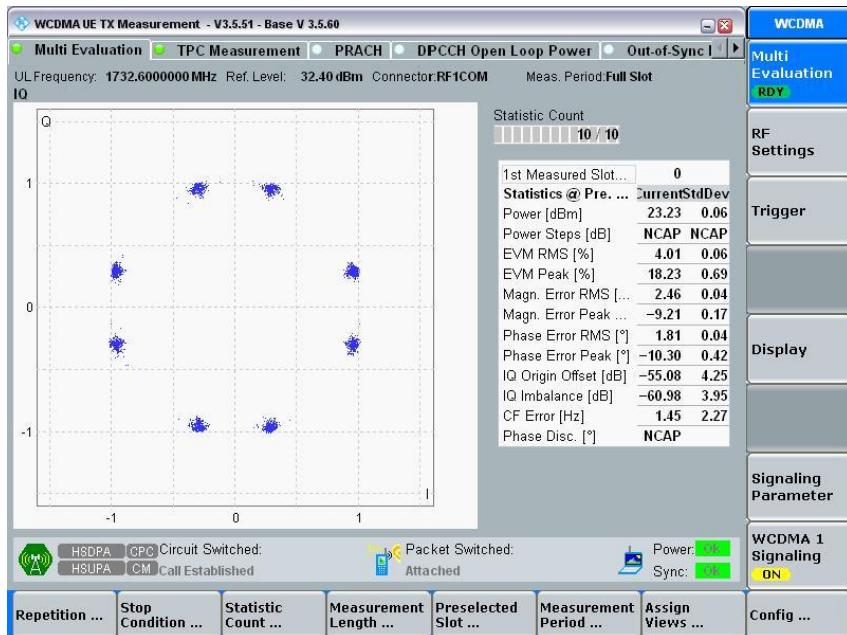
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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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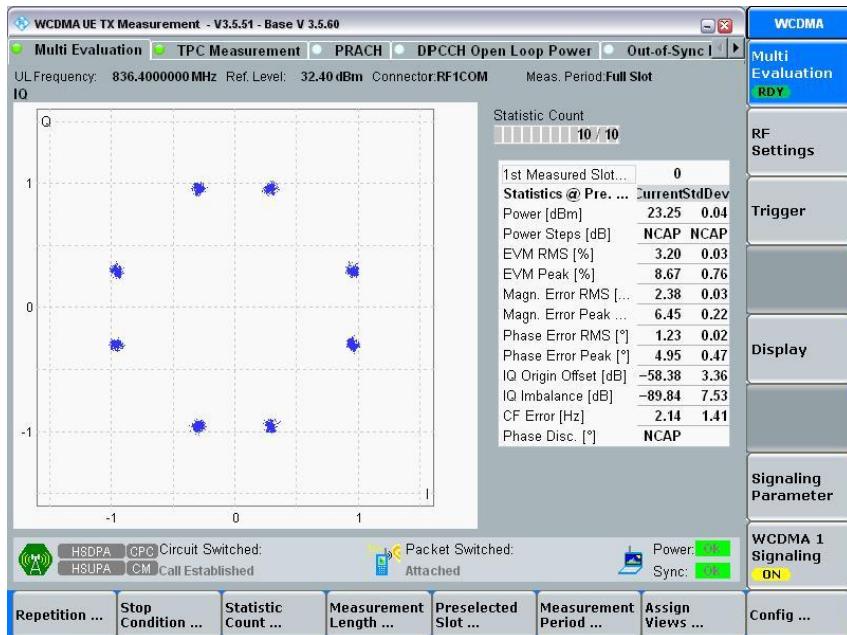
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3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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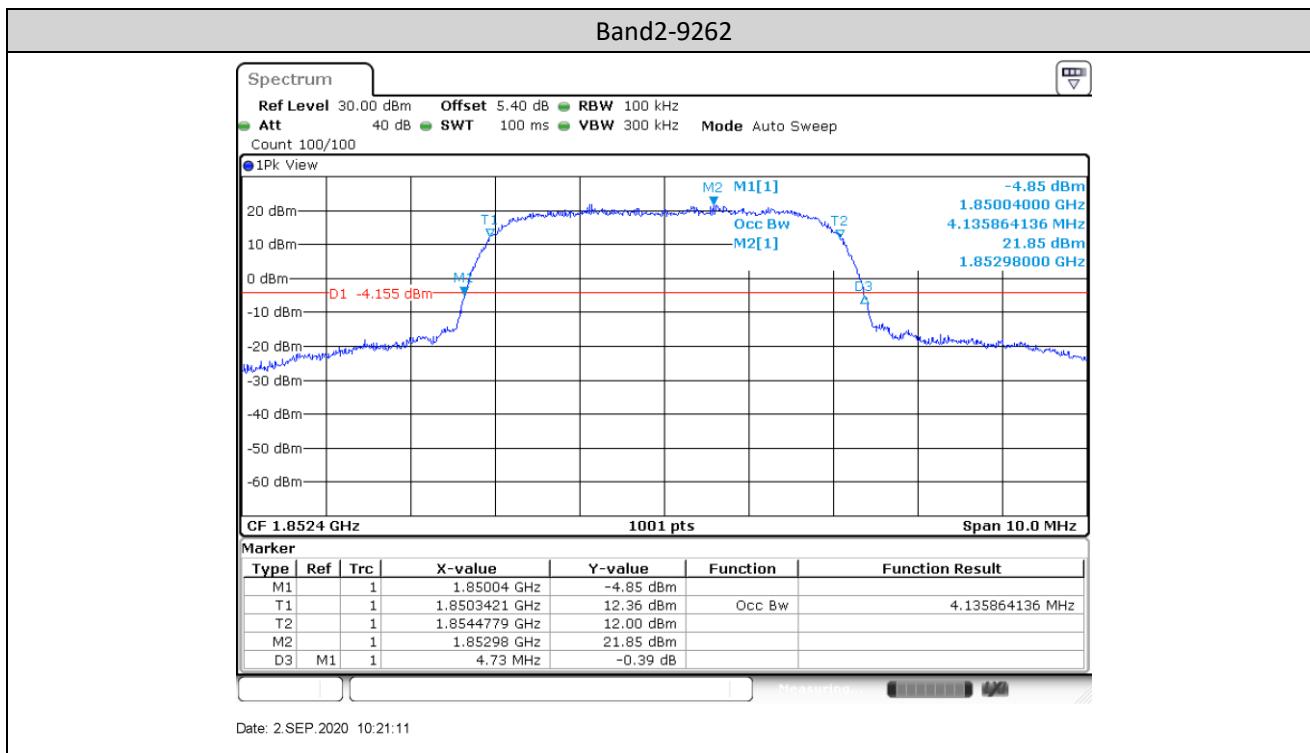
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
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

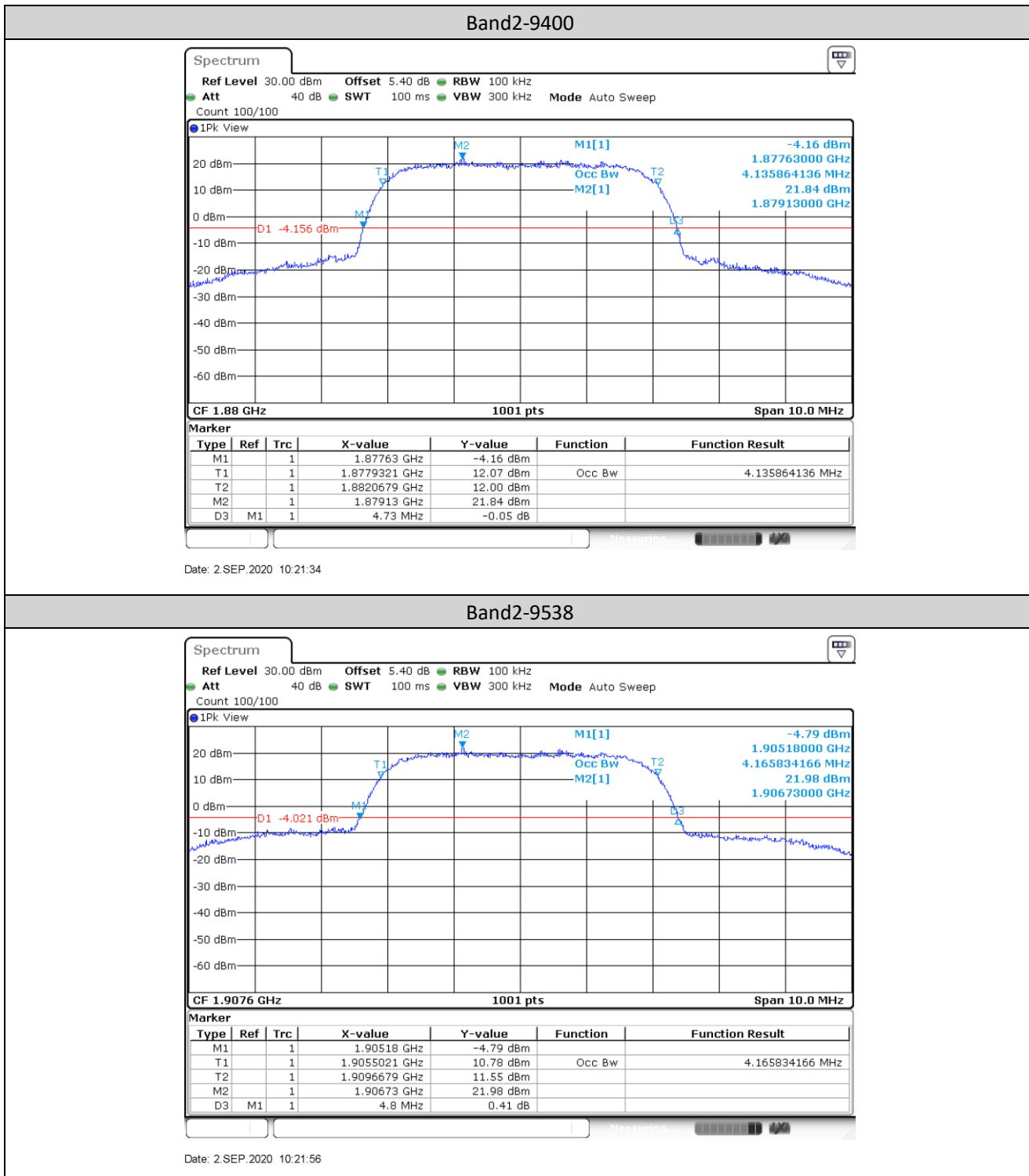
4.2. Test Plots



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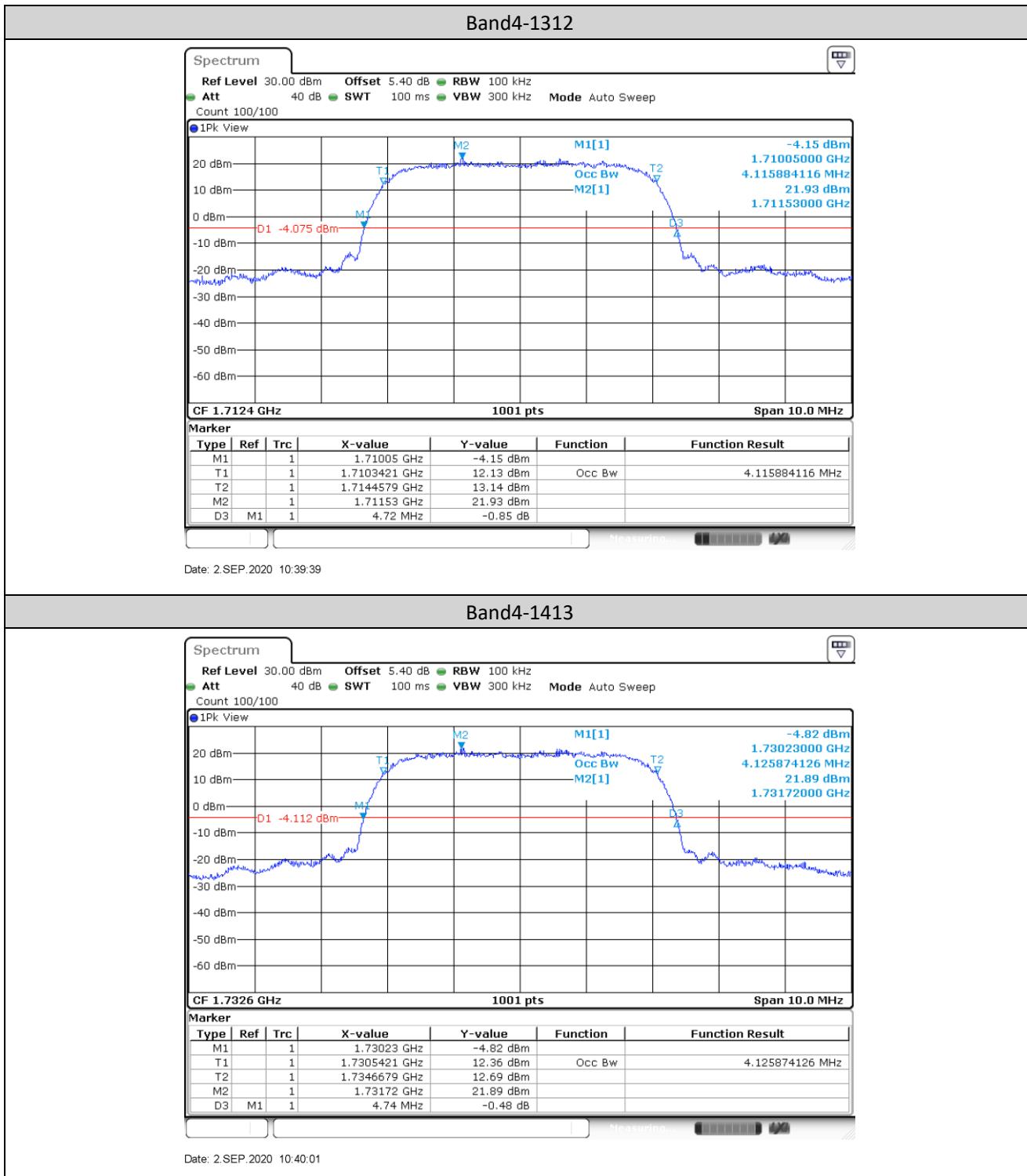




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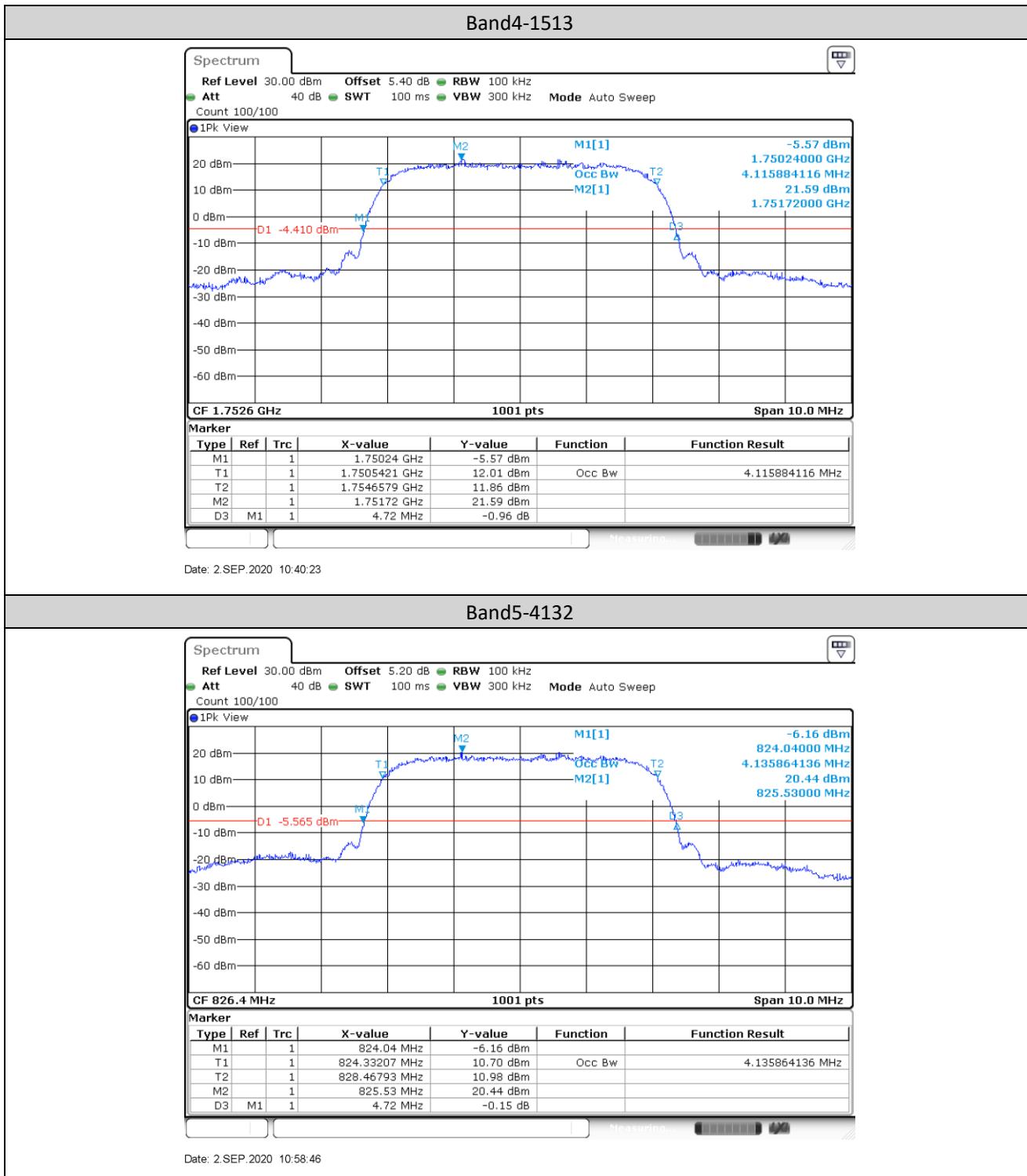


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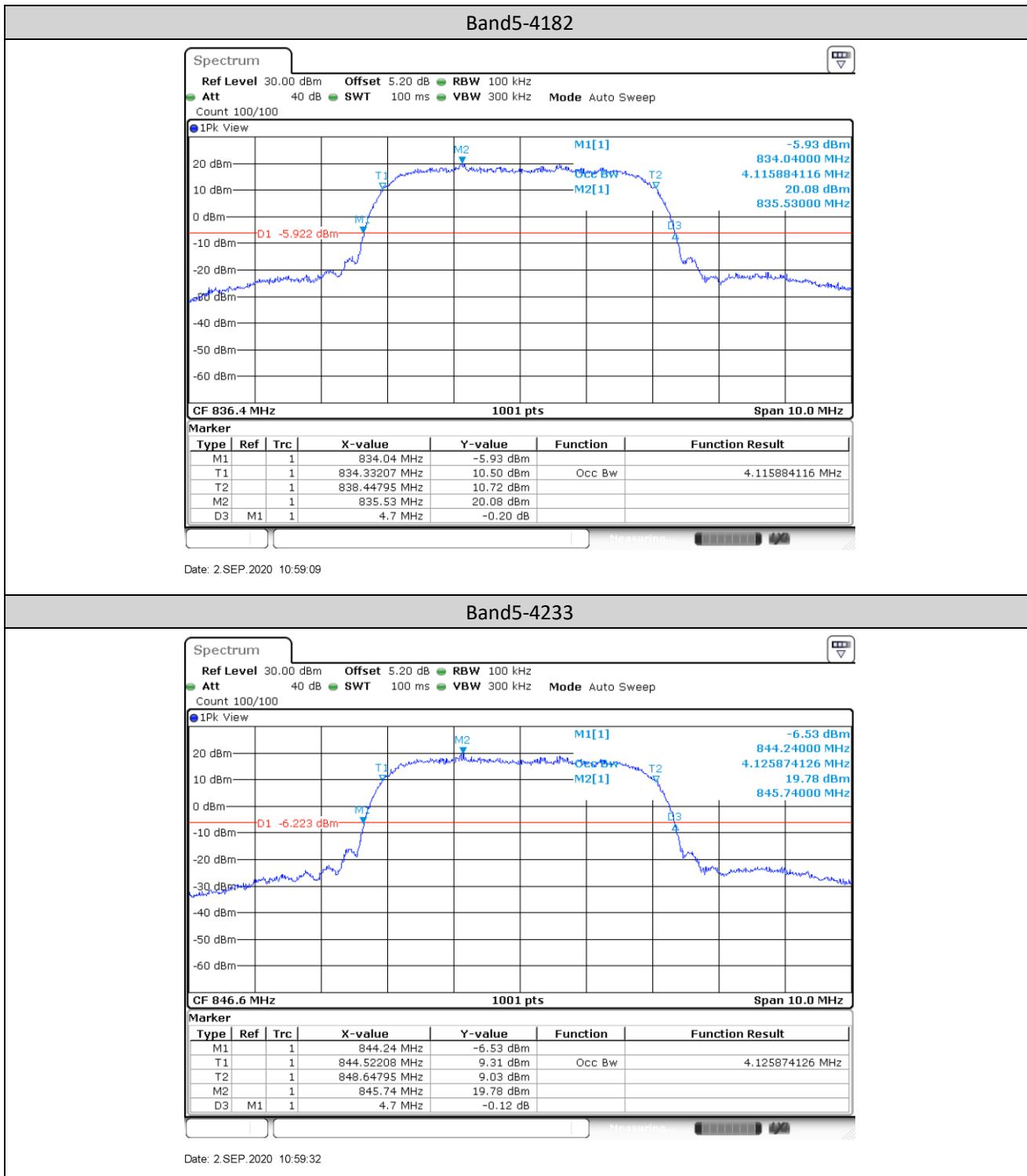
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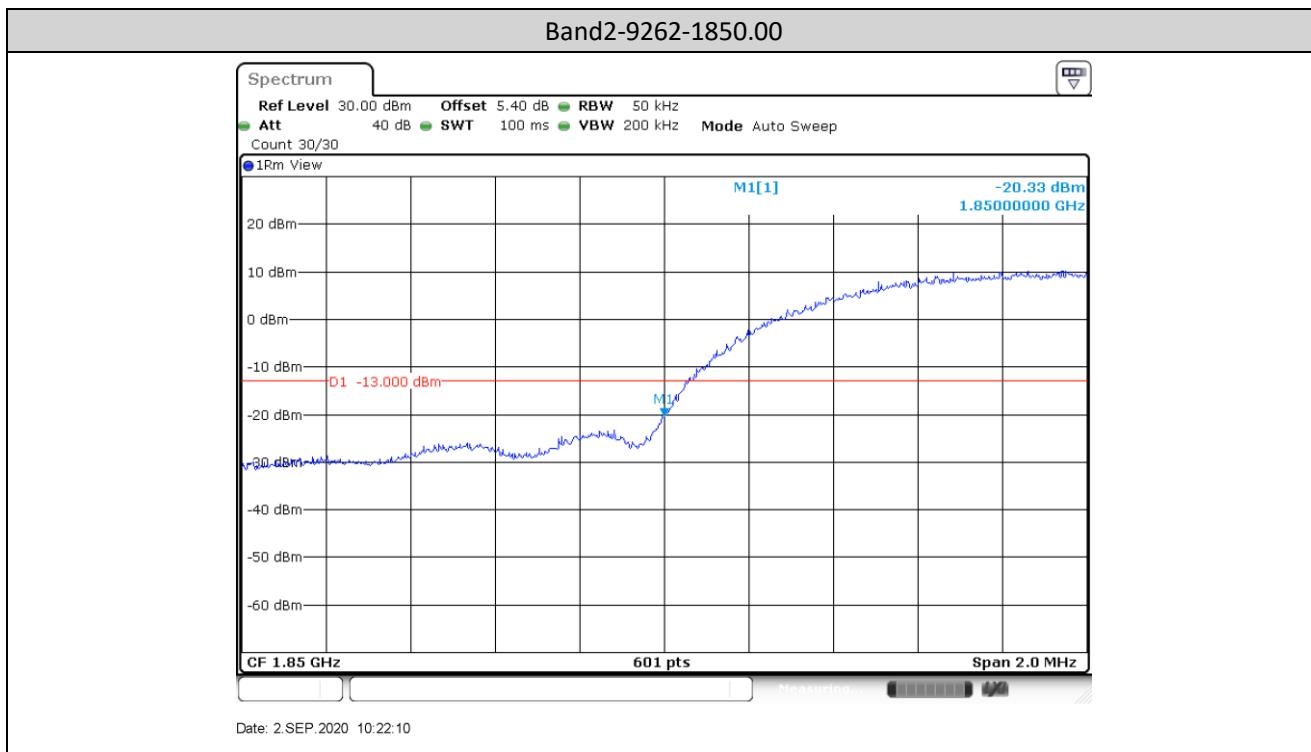


5. Band Edge Compliance

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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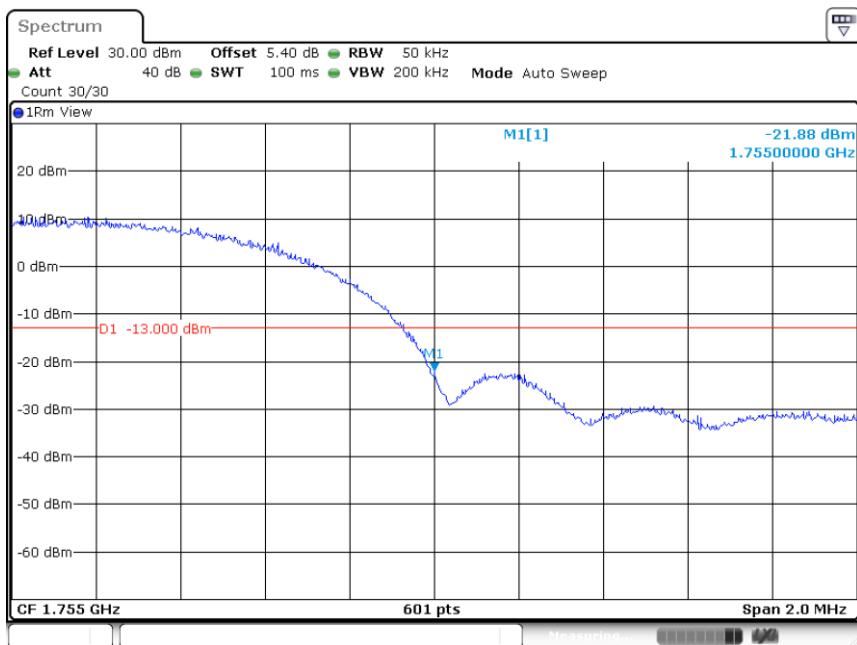
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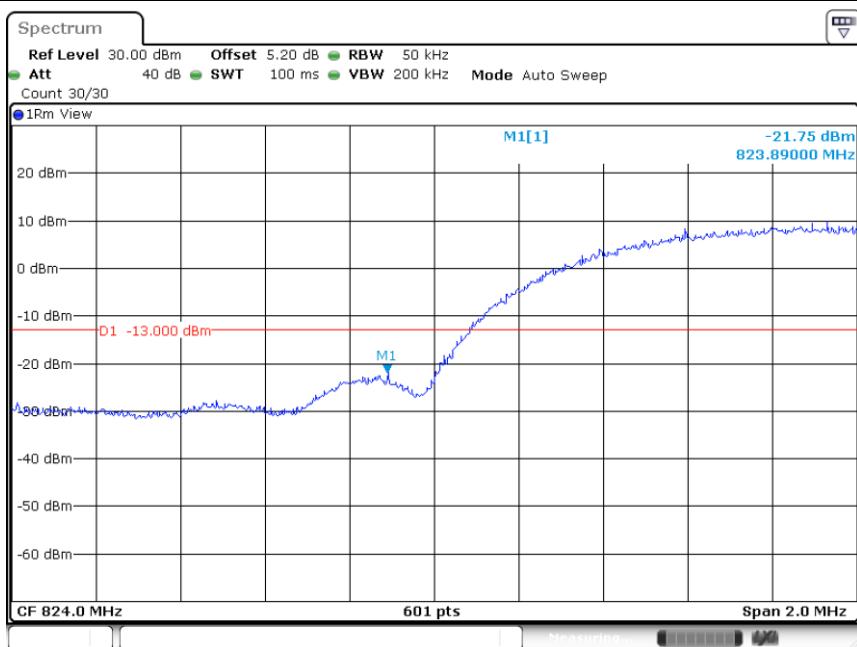
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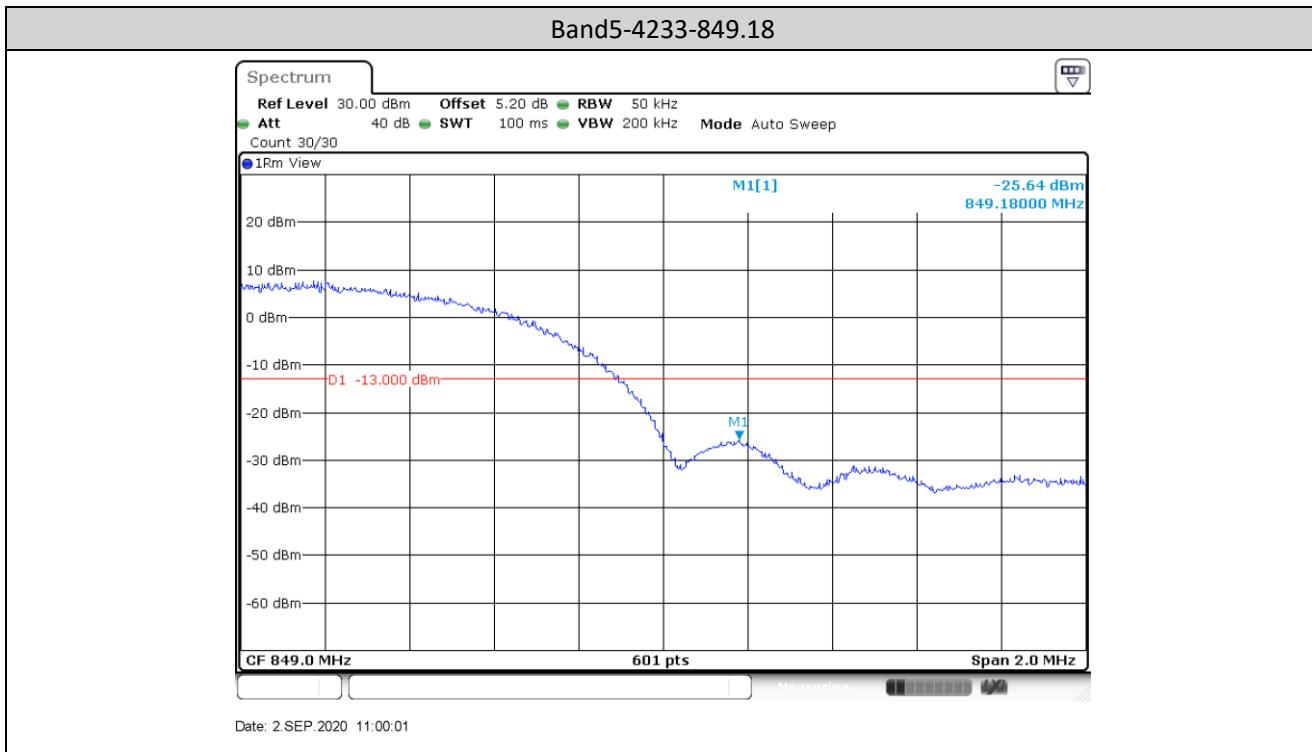
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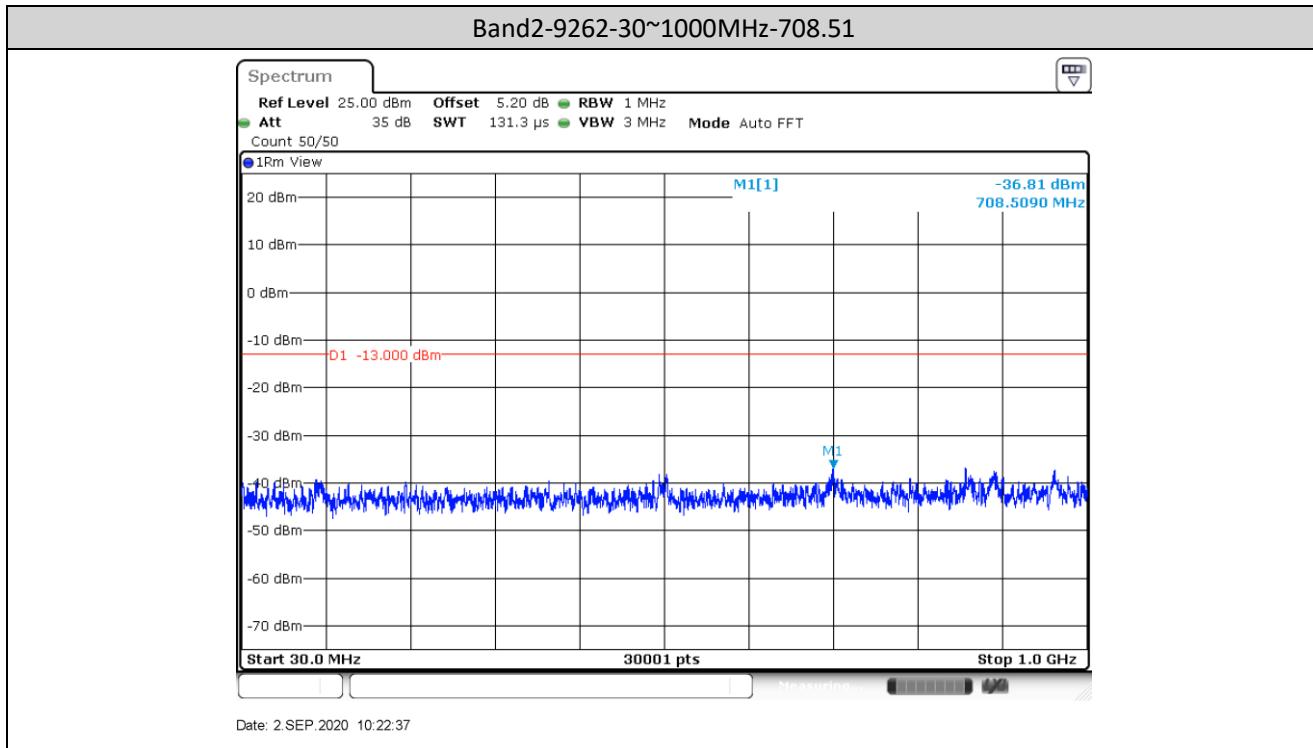
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6. Spurious Emission at Antenna Terminal

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

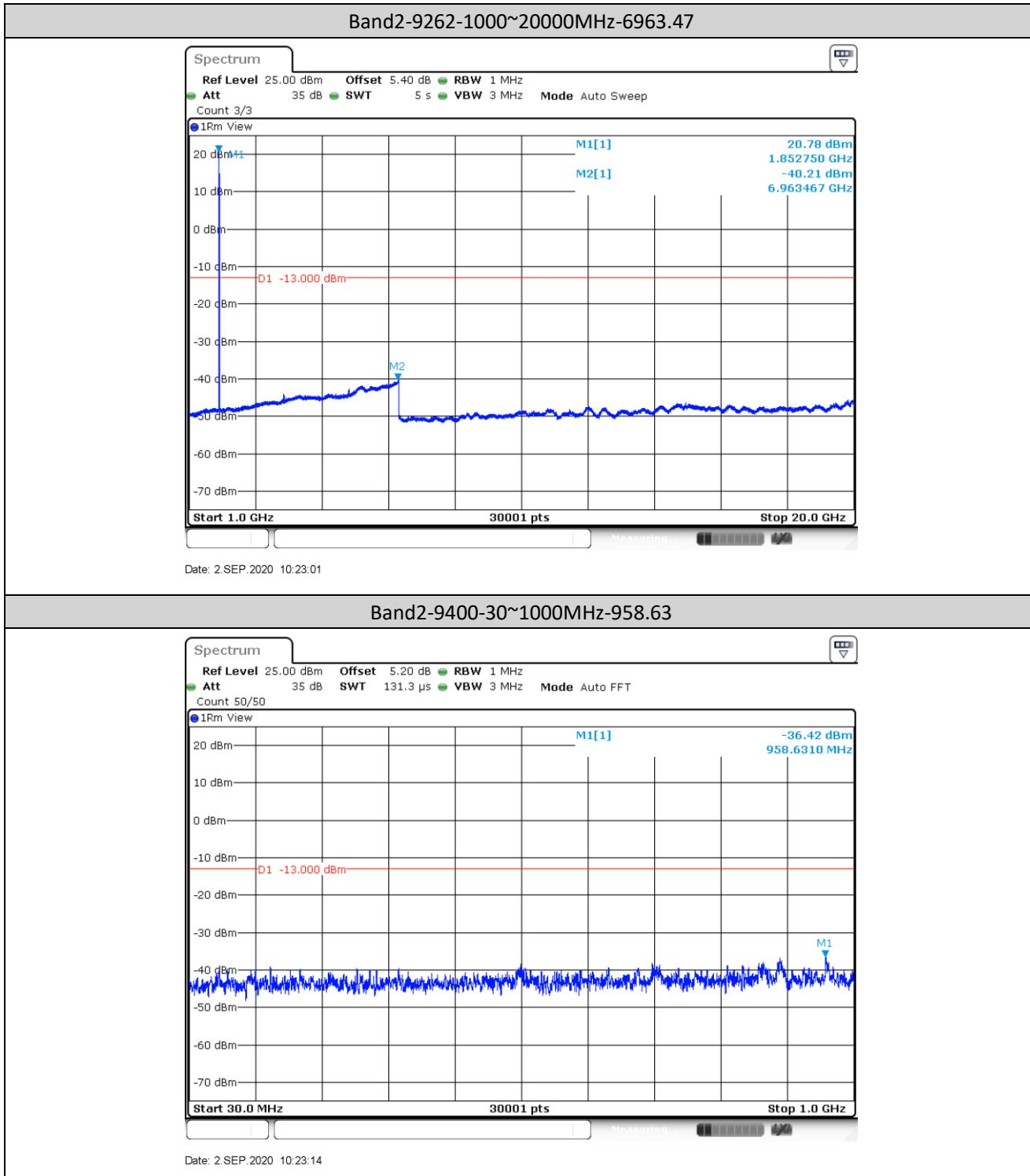


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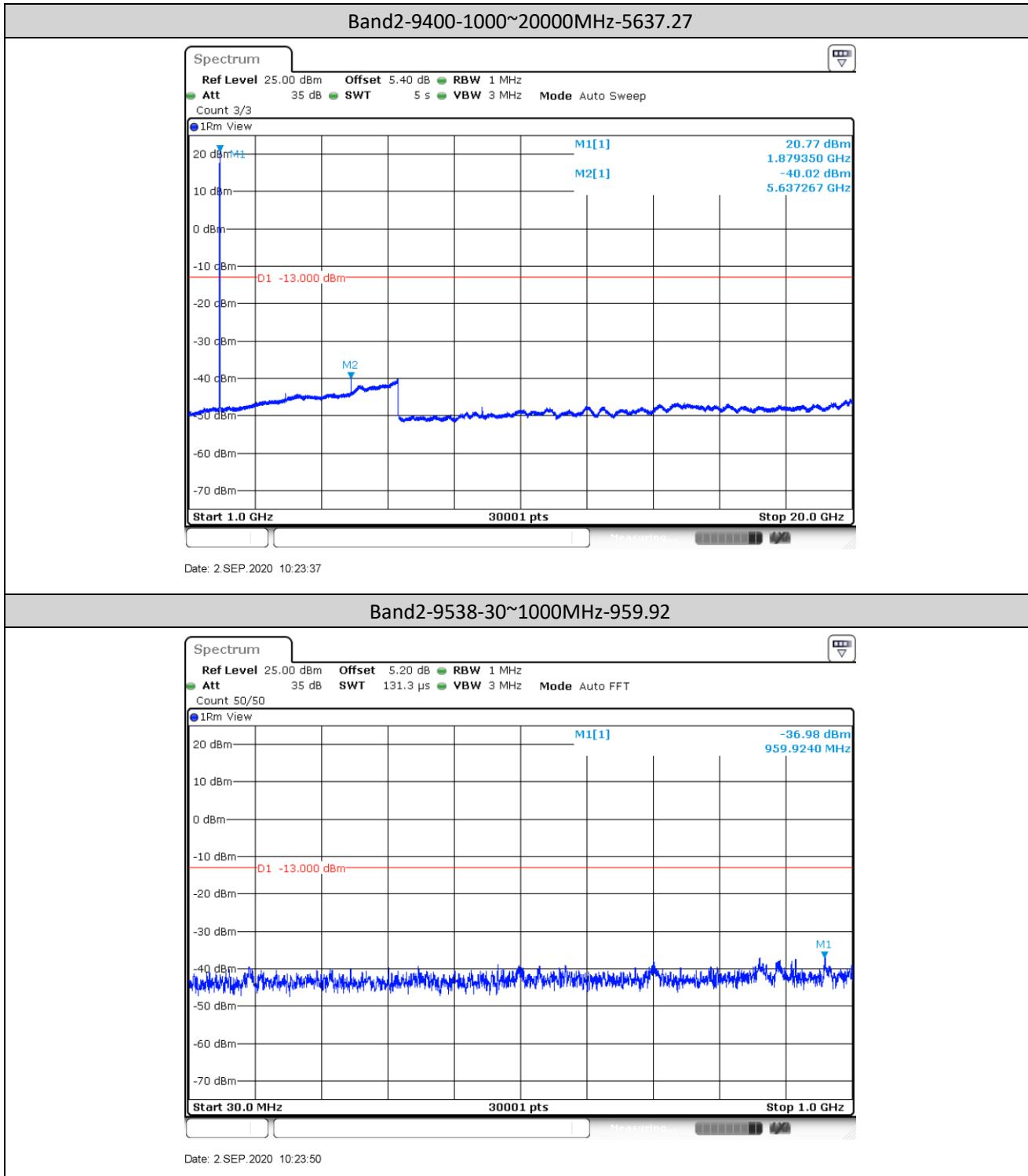
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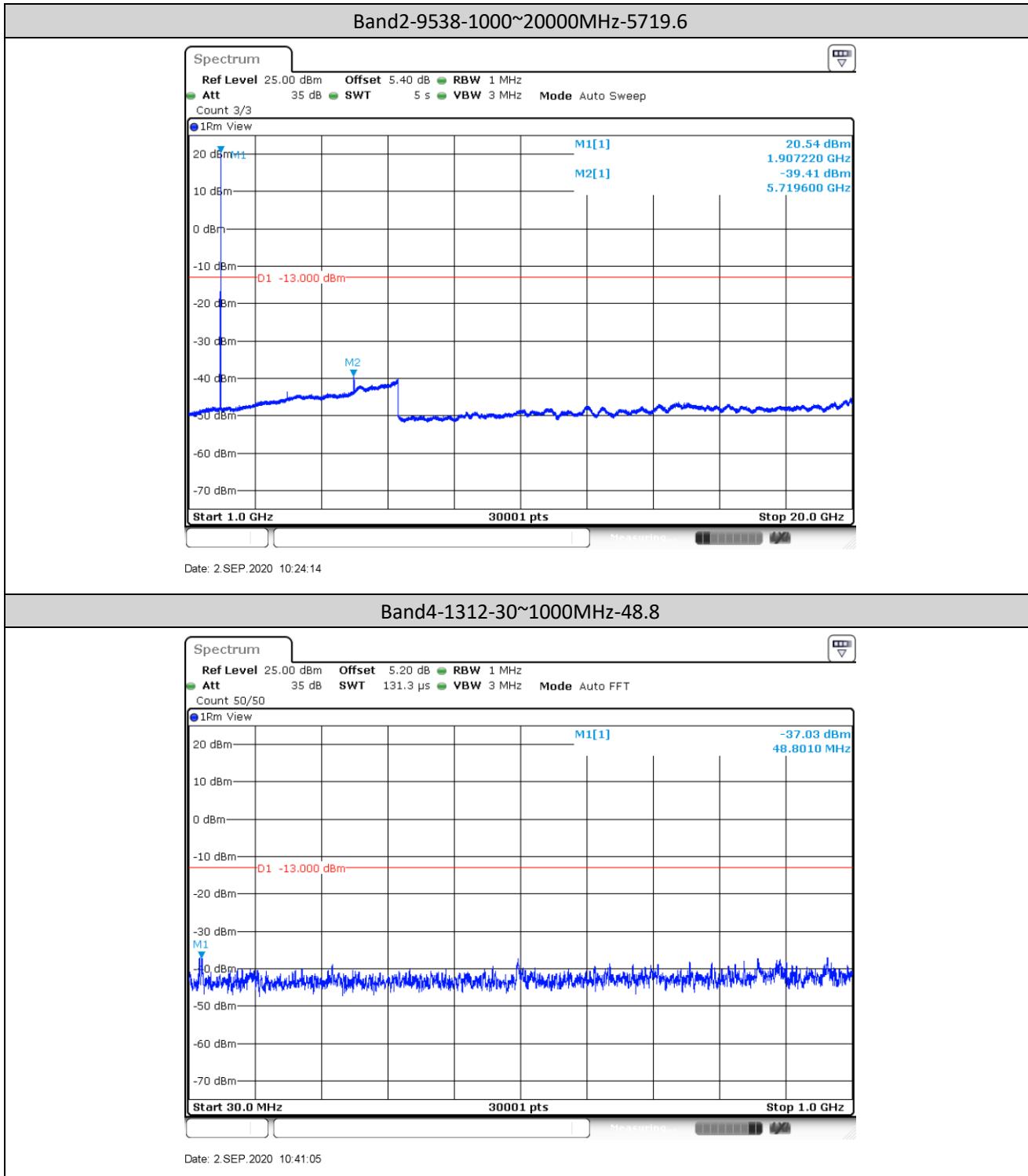




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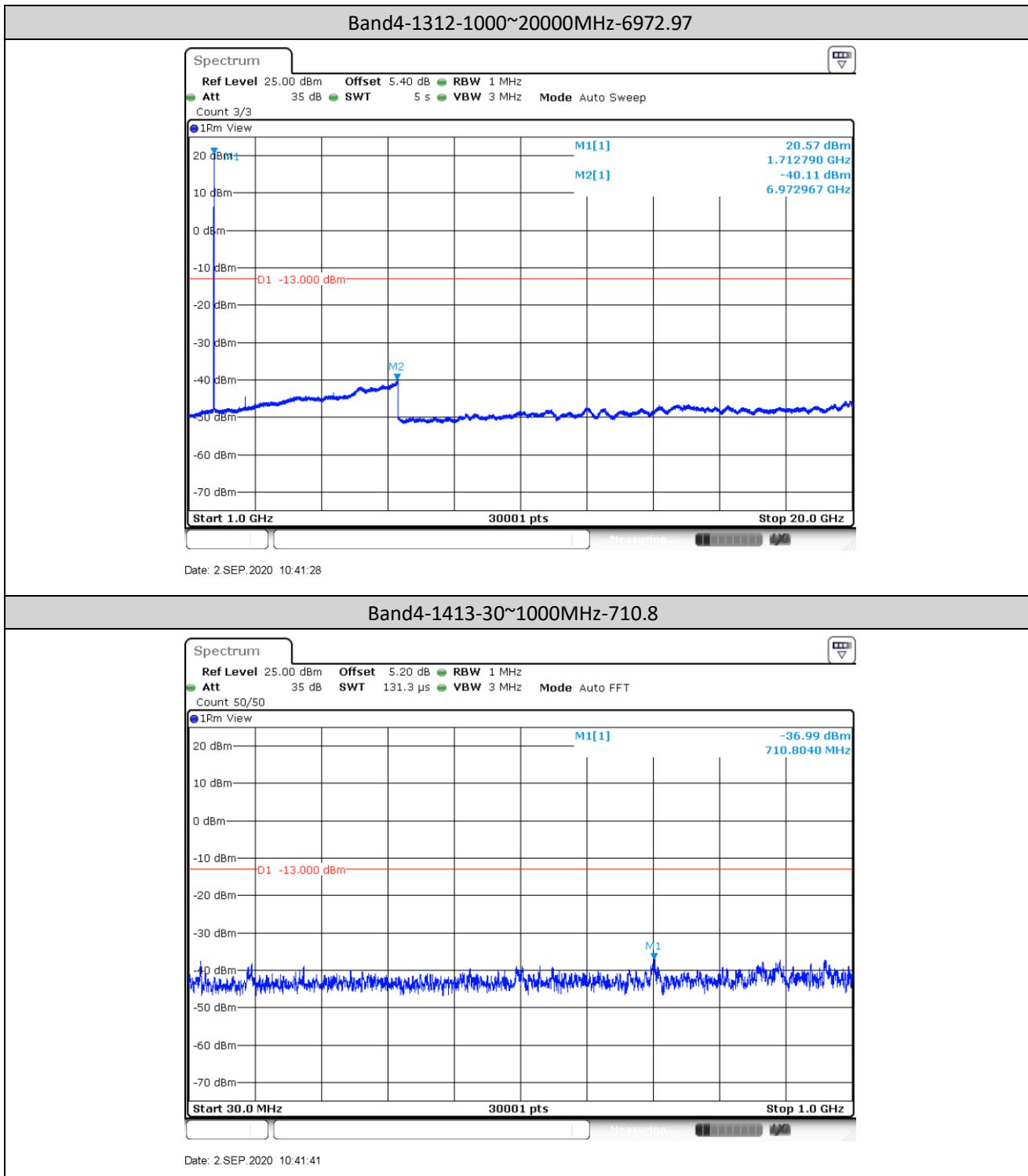


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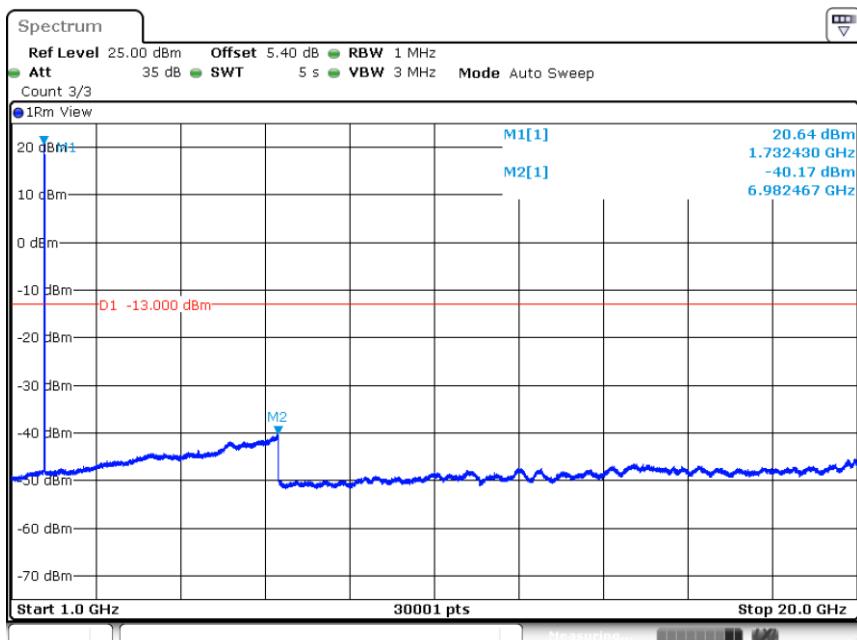
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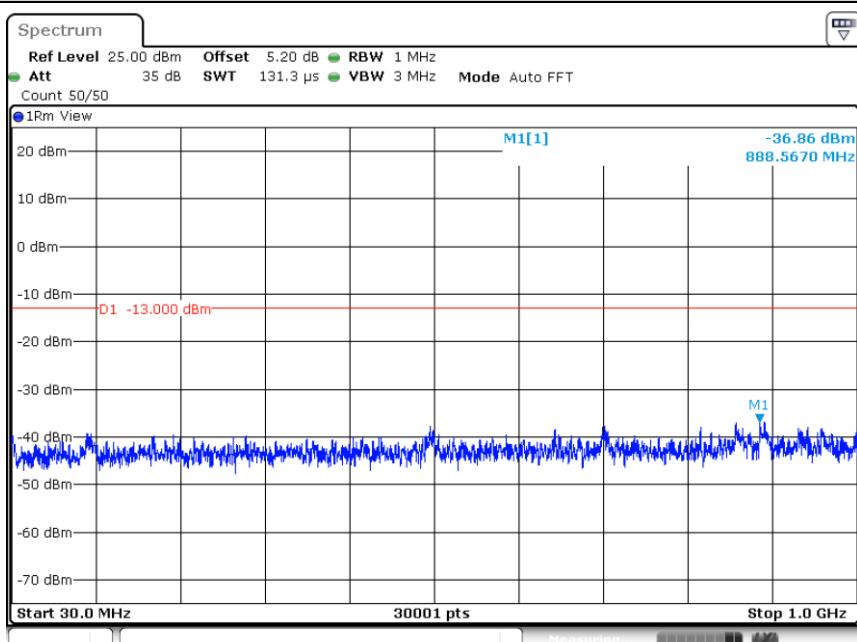
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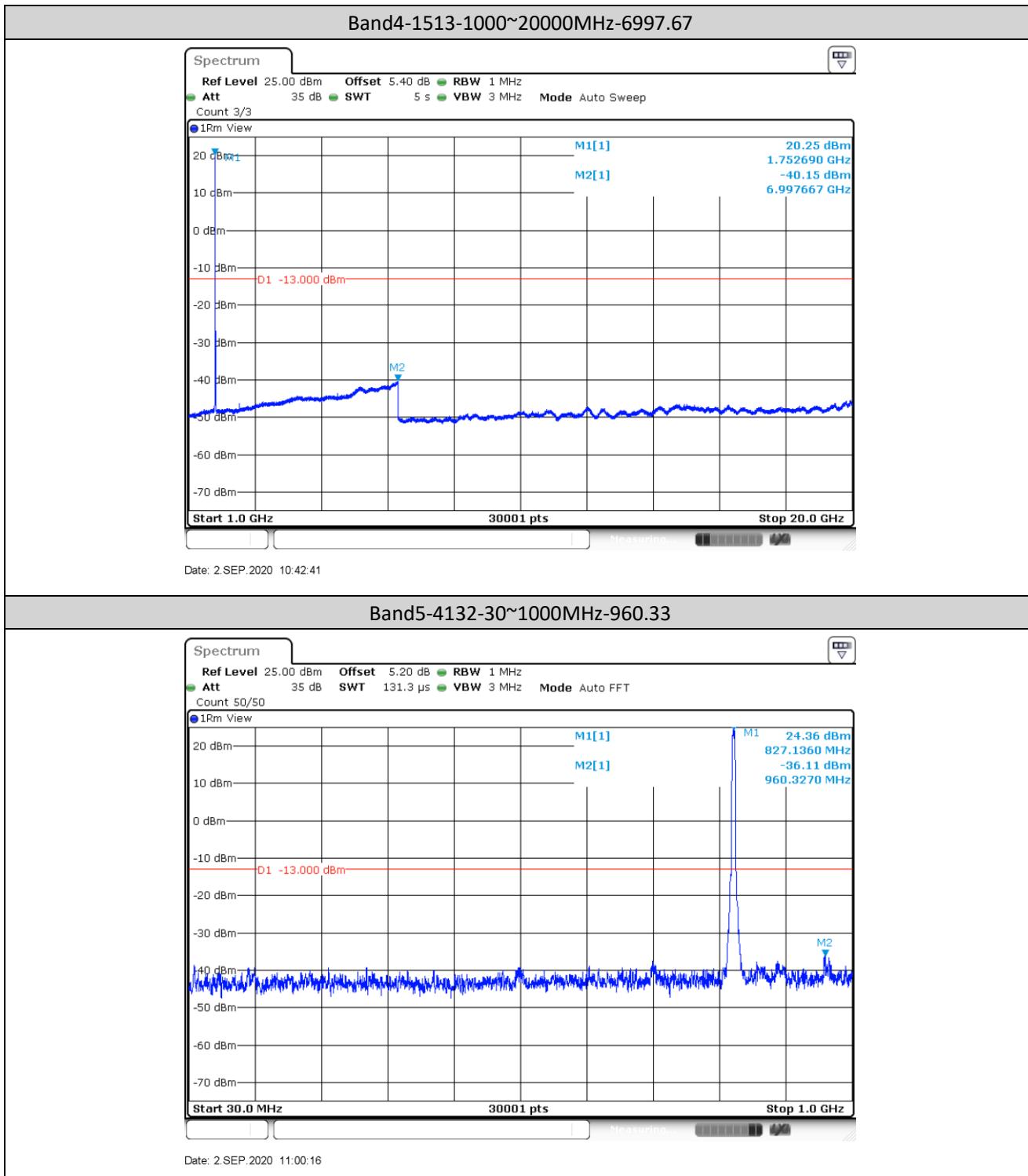
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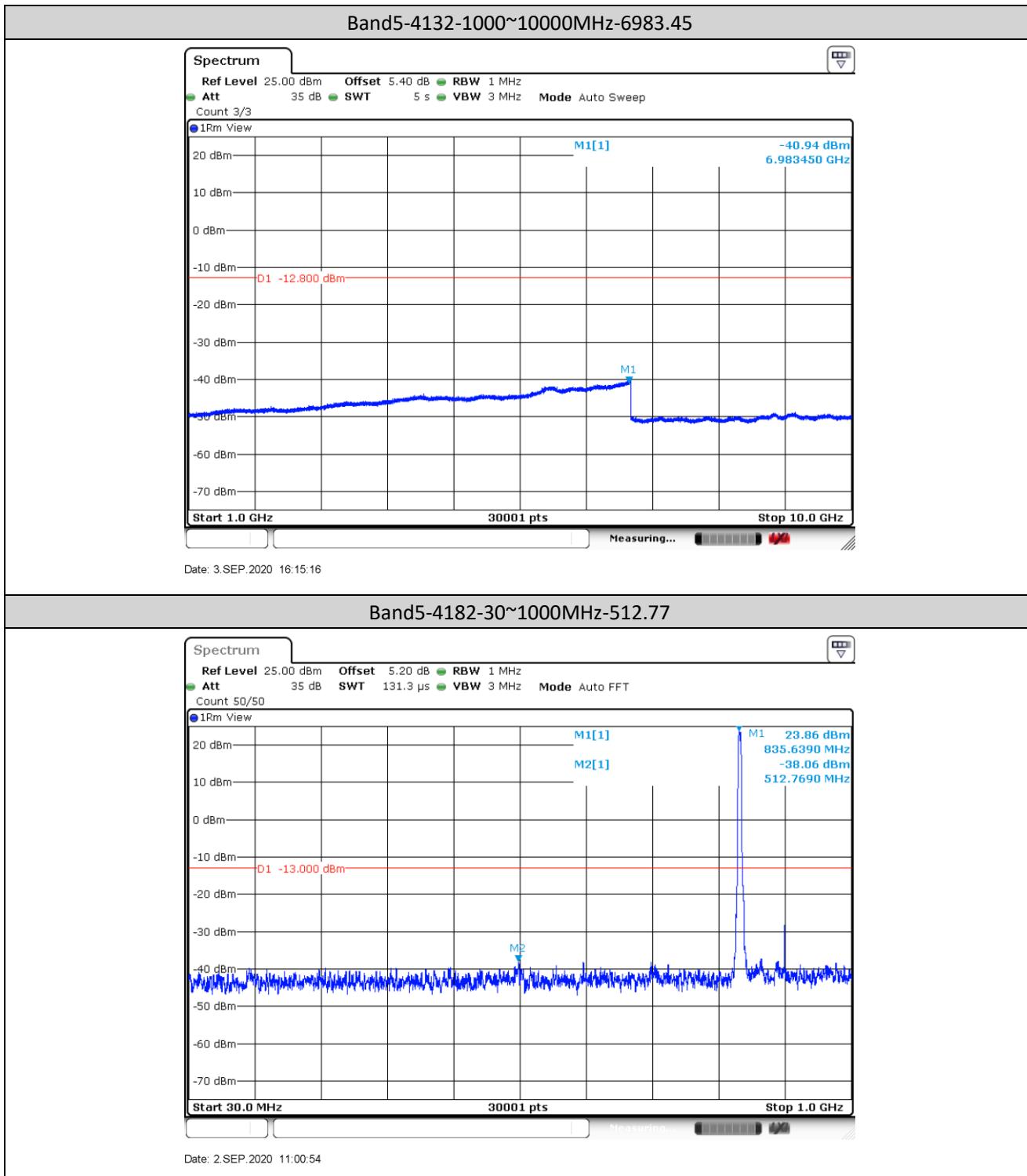


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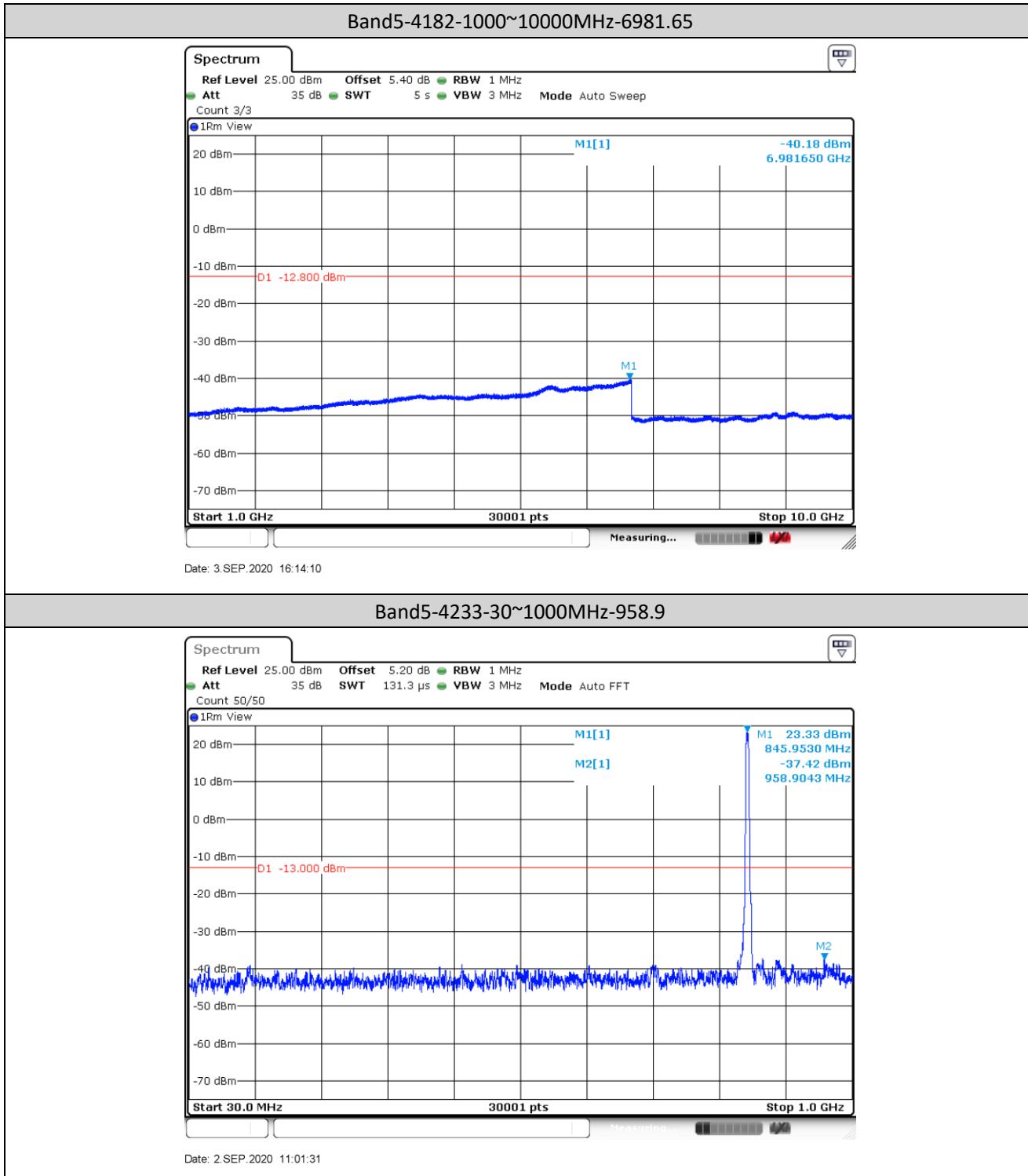


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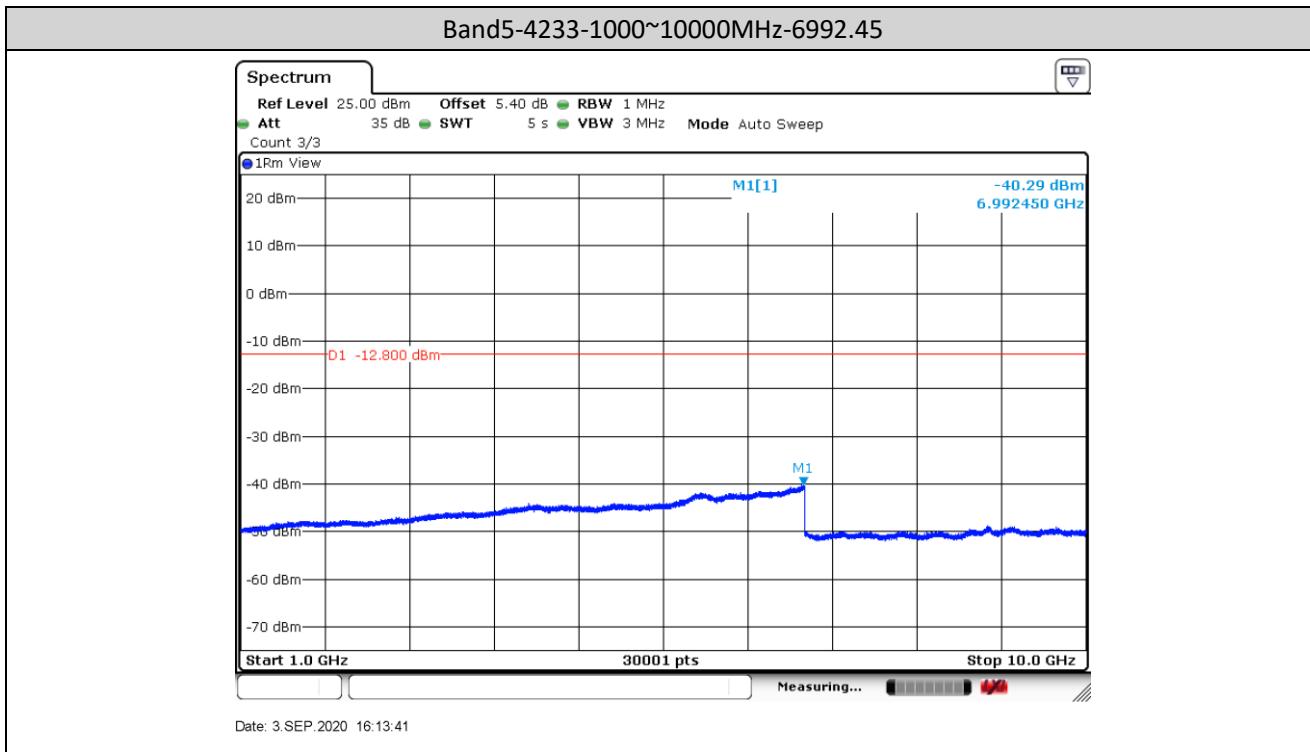


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7. Field Strength of Spurious Radiation

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)	Polarization
110.0290	-64.58	-13.00	51.58	Vertical
2696.3393	-36.66	-13.00	23.66	Vertical
3706.0235	-50.69	-13.00	37.69	Vertical
5560.5854	-39.99	-13.00	26.99	Vertical
7414.6472	-49.83	-13.00	36.83	Vertical
17997.4999	-40.41	-13.00	27.41	Vertical
43.0472	-64.07	-13.00	51.07	Horizontal
230.0240	-67.71	-13.00	54.71	Horizontal
2699.1398	-35.56	-13.00	22.56	Horizontal
3706.5236	-50.12	-13.00	37.12	Horizontal
5559.5853	-39.20	-13.00	26.20	Horizontal
16386.4462	-43.58	-13.00	30.58	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.6595	-65.05	-13.00	52.05	Vertical
605.6268	-63.71	-13.00	50.71	Vertical
3761.5254	-49.50	-13.00	36.50	Vertical
5642.5881	-39.12	-13.00	26.12	Vertical
7524.6508	-49.75	-13.00	36.75	Vertical
17997.9999	-39.97	-13.00	26.97	Vertical
39.3610	-64.10	-13.00	51.10	Horizontal
226.1438	-67.58	-13.00	54.58	Horizontal

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2697.1394	-35.55	-13.00	22.55	Horizontal
3761.5254	-48.92	-13.00	35.92	Horizontal
5643.0881	-38.82	-13.00	25.82	Horizontal
16365.4455	-43.89	-13.00	30.89	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.0775	-64.84	-13.00	51.84	Vertical
846.2958	-61.27	-13.00	48.27	Vertical
3813.5271	-51.76	-13.00	38.76	Vertical
5720.0907	-36.81	-13.00	23.81	Vertical
7633.1544	-51.91	-13.00	38.91	Vertical
17995.4999	-39.62	-13.00	26.62	Vertical
40.8645	-63.94	-13.00	50.94	Horizontal
240.4035	-67.99	-13.00	54.99	Horizontal
2697.9396	-35.44	-13.00	22.44	Horizontal
3813.5271	-49.23	-13.00	36.23	Horizontal
5726.0909	-36.74	-13.00	23.74	Horizontal
16387.4462	-43.46	-13.00	30.46	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)	Polarization
111.2416	-62.62	-13.00	49.62	Vertical
728.4349	-59.70	-13.00	46.70	Vertical
2703.9408	-31.91	-13.00	18.91	Vertical
5140.0713	-36.51	-13.00	23.51	Vertical
6846.6282	-50.14	-13.00	37.14	Vertical
17990.4997	-33.96	-13.00	20.96	Vertical

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41.7861	-61.96	-13.00	48.96	Horizontal
230.4120	-64.87	-13.00	51.87	Horizontal
2702.3405	-30.96	-13.00	17.96	Horizontal
5140.0713	-35.26	-13.00	22.26	Horizontal
6846.6282	-51.90	-13.00	38.90	Horizontal
16395.9465	-35.41	-13.00	22.41	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.1817	-62.86	-13.00	49.86	Vertical
445.3748	-65.21	-13.00	52.21	Vertical
2699.9400	-32.06	-13.00	19.06	Vertical
5194.5732	-44.05	-13.00	31.05	Vertical
9330.2110	-48.89	-13.00	35.89	Vertical
17996.9999	-34.12	-13.00	21.12	Vertical
40.4280	-61.96	-13.00	48.96	Horizontal
244.7687	-65.47	-13.00	52.47	Horizontal
2693.5387	-30.77	-13.00	17.77	Horizontal
5195.0732	-42.99	-13.00	29.99	Horizontal
9999.2333	-49.78	-13.00	36.78	Horizontal
16396.9466	-35.34	-13.00	22.34	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.1374	-62.40	-13.00	49.40	Vertical
605.6268	-60.72	-13.00	47.72	Vertical
2693.5387	-32.28	-13.00	19.28	Vertical
5261.0754	-38.34	-13.00	25.34	Vertical
7007.6336	-51.34	-13.00	38.34	Vertical
17997.4999	-34.32	-13.00	21.32	Vertical
42.2711	-62.88	-13.00	49.88	Horizontal

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239.1910	-64.44	-13.00	51.44	Horizontal
2693.1386	-31.04	-13.00	18.04	Horizontal
5254.0751	-37.18	-13.00	24.18	Horizontal
7013.6338	-50.59	-13.00	37.59	Horizontal
16389.4463	-35.53	-13.00	22.53	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)	Polarization
54.1057	-72.76	-13.00	59.76	Vertical
111.2416	-65.15	-13.00	52.15	Vertical
1654.5309	-47.93	-13.00	34.93	Vertical
2459.4919	-48.78	-13.00	35.78	Vertical
4131.0044	-59.78	-13.00	46.78	Vertical
9887.0629	-52.28	-13.00	39.28	Vertical
44.7447	-63.00	-13.00	50.00	Horizontal
243.2652	-68.11	-13.00	55.11	Horizontal
1654.5309	-45.17	-13.00	32.17	Horizontal
2476.6953	-44.95	-13.00	31.95	Horizontal
4125.6375	-59.95	-13.00	46.95	Horizontal
9339.1780	-52.57	-13.00	39.57	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.1285	-72.76	-13.00	59.76	Vertical
111.5811	-65.21	-13.00	52.21	Vertical
1674.5349	-46.89	-13.00	33.89	Vertical
2511.9024	-48.47	-13.00	35.47	Vertical
5518.2173	-61.60	-13.00	48.60	Vertical

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9338.9446	-52.58	-13.00	39.58	Vertical
40.8645	-64.40	-13.00	51.40	Horizontal
235.2138	-67.86	-13.00	54.86	Horizontal
1674.5349	-42.86	-13.00	29.86	Horizontal
2511.9024	-44.75	-13.00	31.75	Horizontal
5988.1663	-60.58	-13.00	47.58	Horizontal
9310.7104	-52.86	-13.00	39.86	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
52.0686	-72.64	-13.00	59.64	Vertical
114.2972	-64.55	-13.00	51.55	Vertical
1691.7383	-44.63	-13.00	31.63	Vertical
2536.7073	-46.97	-13.00	33.97	Vertical
4237.8746	-60.03	-13.00	47.03	Vertical
9864.6622	-52.28	-13.00	39.28	Vertical
44.4052	-64.10	-13.00	51.10	Horizontal
228.5689	-68.35	-13.00	55.35	Horizontal
1694.9390	-41.86	-13.00	28.86	Horizontal
2537.1074	-44.67	-13.00	31.67	Horizontal
4237.1746	-59.71	-13.00	46.71	Horizontal
9313.9771	-52.91	-13.00	39.91	Horizontal

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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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

Temperature							
Band	Channel	Voltage (Vdc)	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

The End

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