

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	23.21	17.21	33.00	PASS
Band II	9400	23.33	17.33	33.00	PASS
Band II	9538	23.08	17.08	33.00	PASS
Band IV	1312	23.27	17.27	30.00	PASS
Band IV	1413	23.22	17.22	30.00	PASS
Band IV	1513	23.38	17.38	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.10	14.95	38.45	PASS
Band V	4182	24.07	14.92	38.45	PASS
Band V	4233	24.06	14.91	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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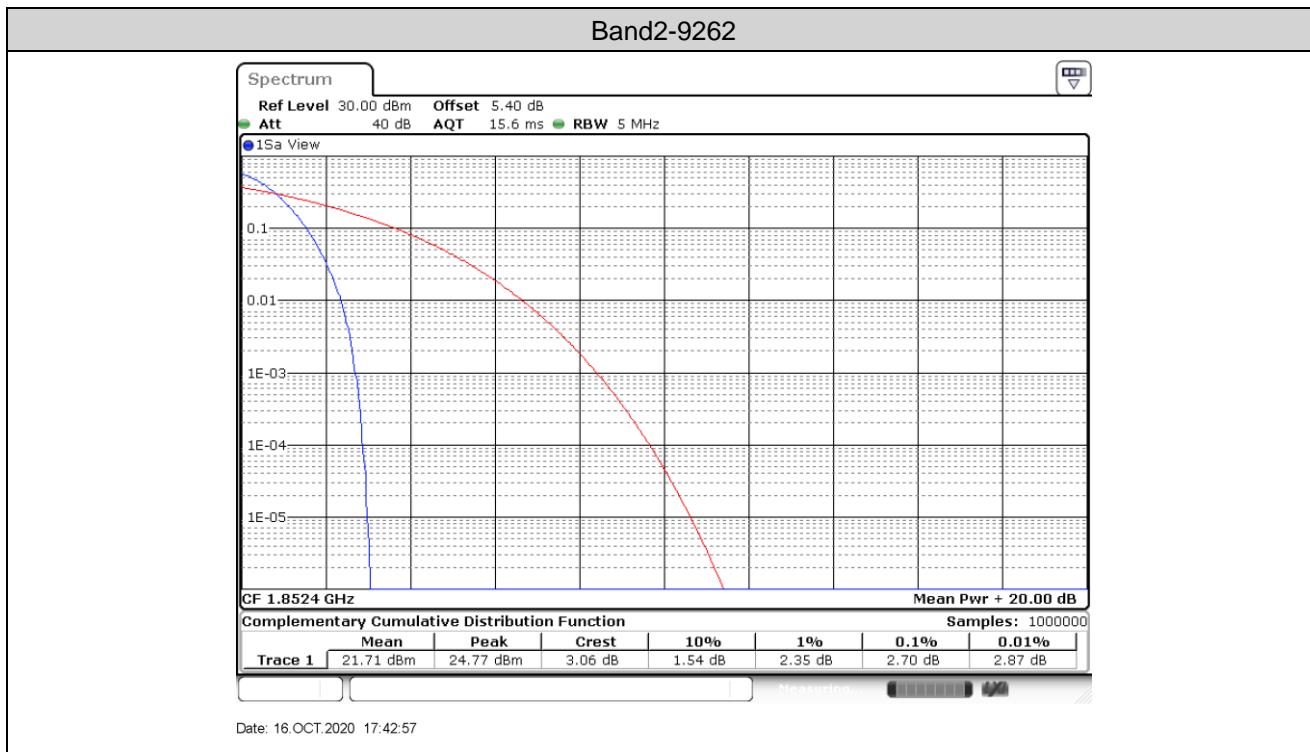
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.70	13	PASS
Band2	9400	3.22	13	PASS
Band2	9538	2.99	13	PASS
Band4	1312	3.01	13	PASS
Band4	1413	2.96	13	PASS
Band4	1513	3.01	13	PASS
Band5	4132	2.61	13	PASS
Band5	4182	3.51	13	PASS
Band5	4233	2.61	13	PASS

2.2. Test Plots



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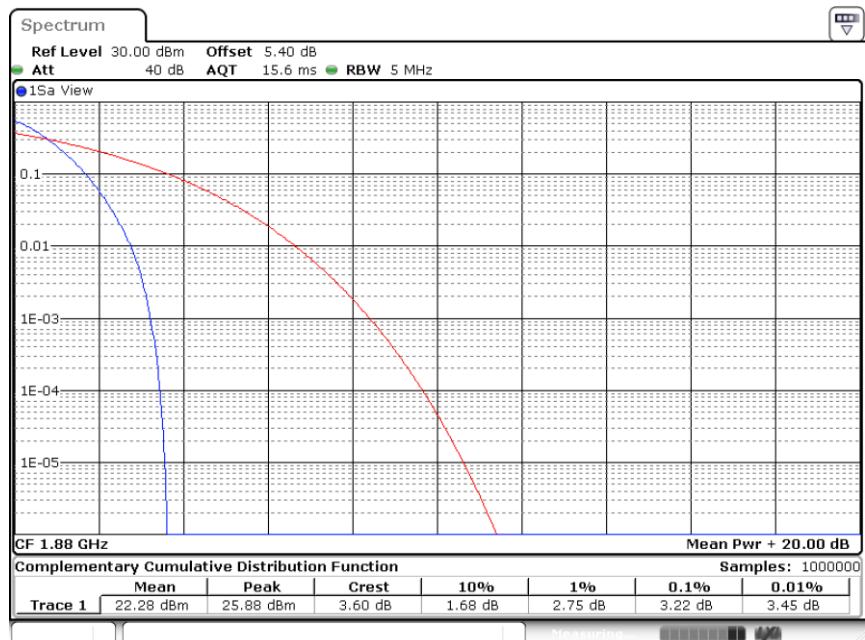
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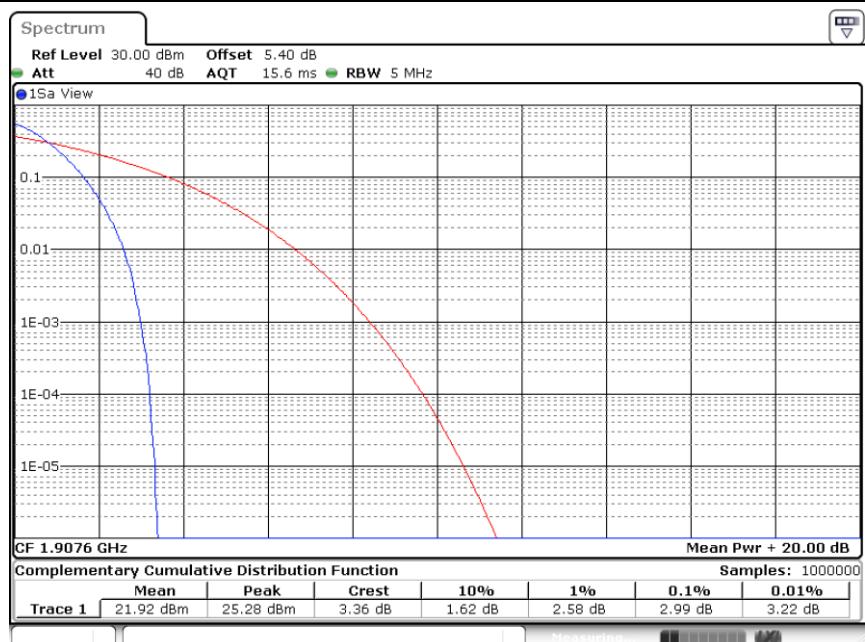
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Band2-9400



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Band2-9538



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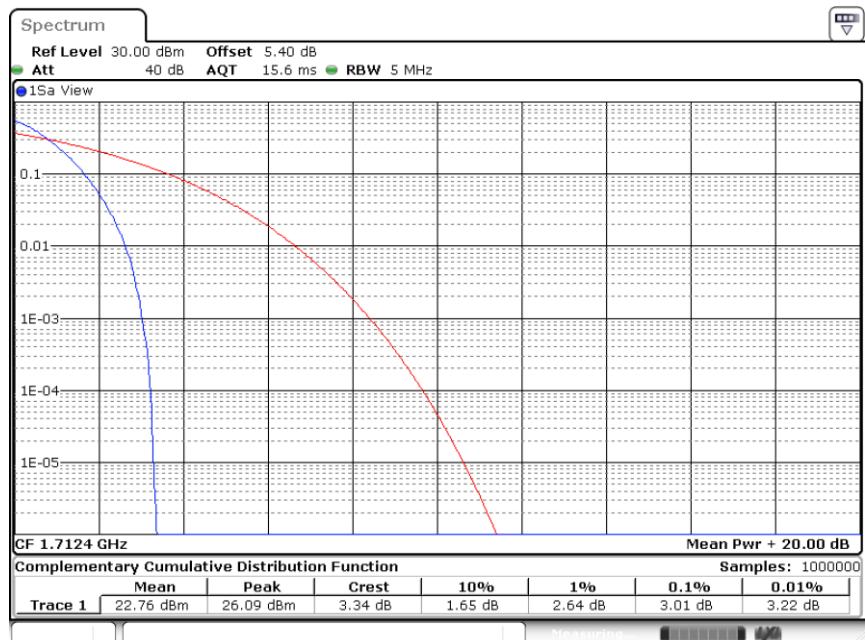
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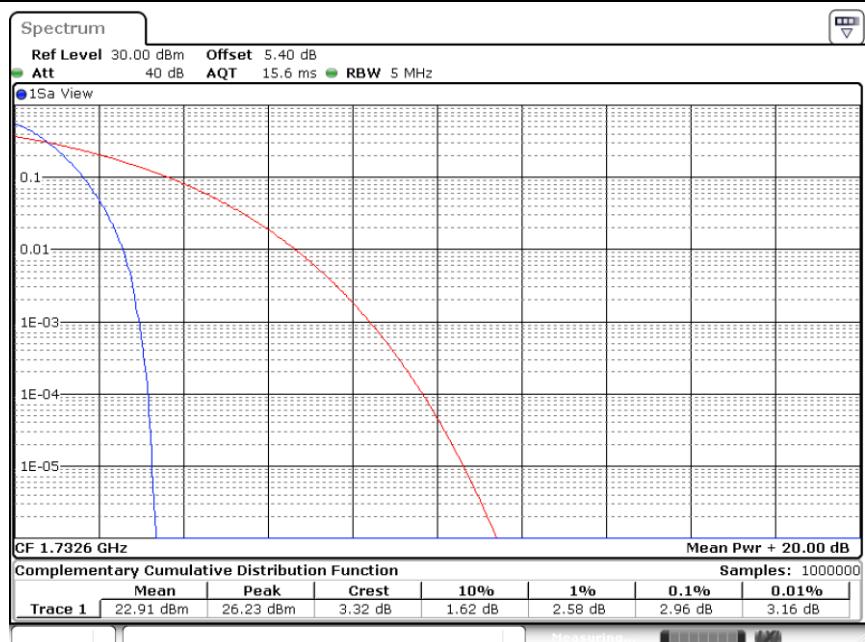
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Band4-1312



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Band4-1413



Date: 16.OCT.2020 18:57:04

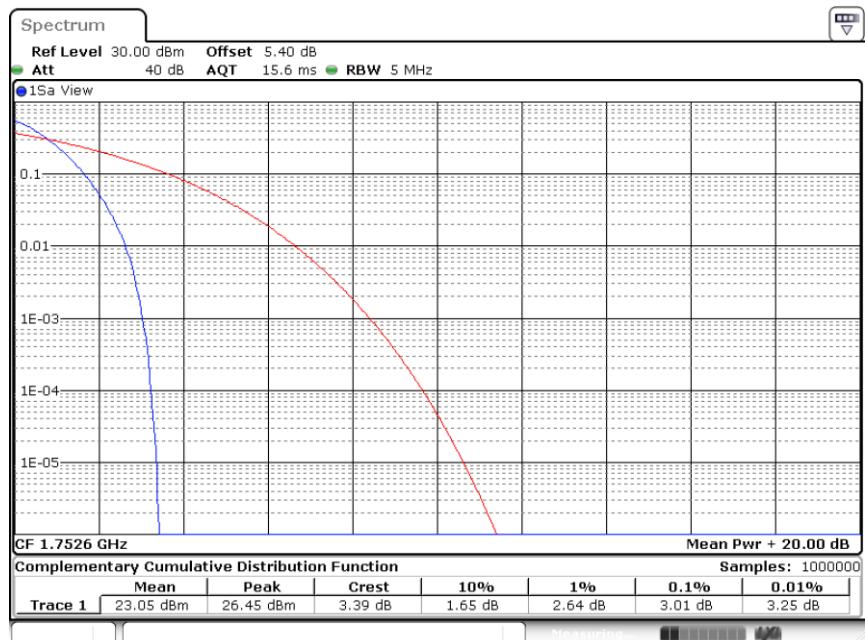
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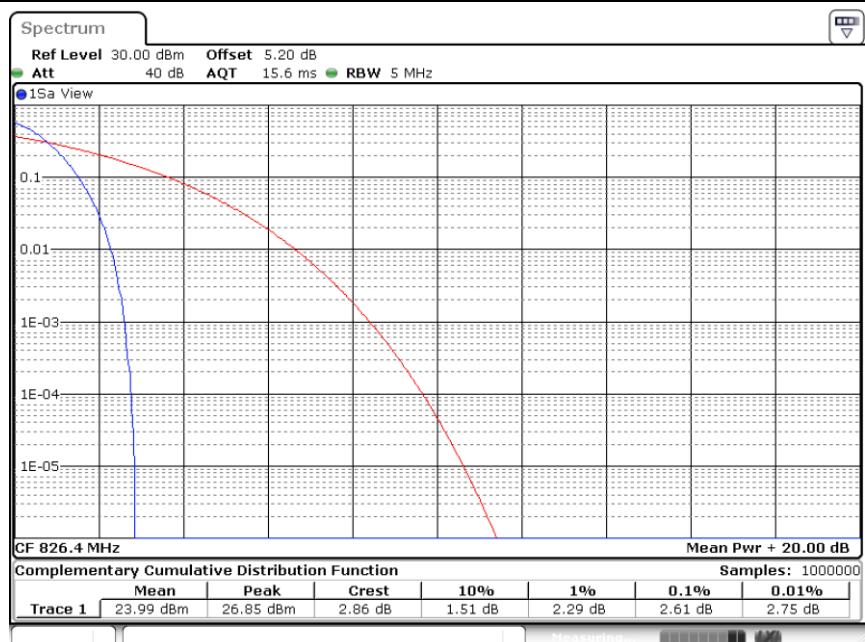
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Band4-1513



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Band5-4132



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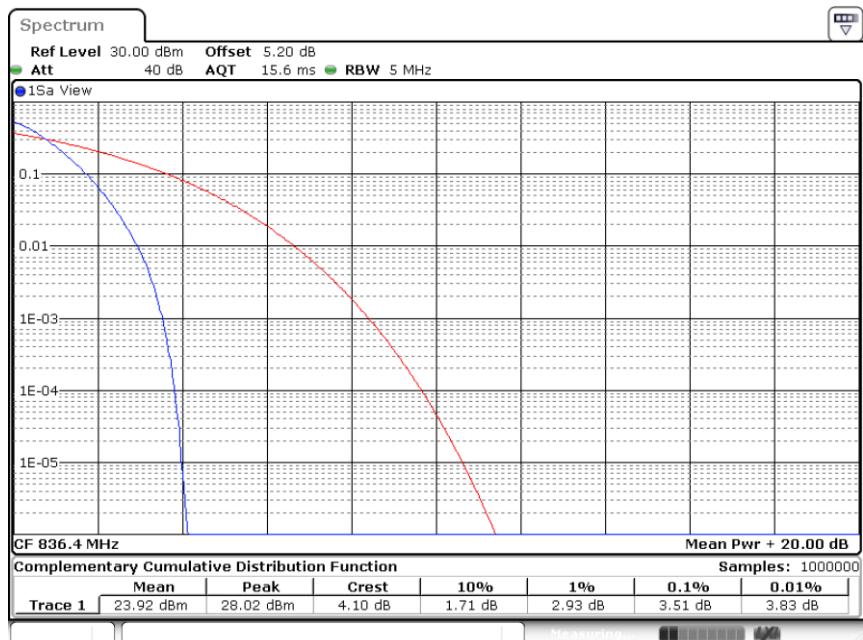
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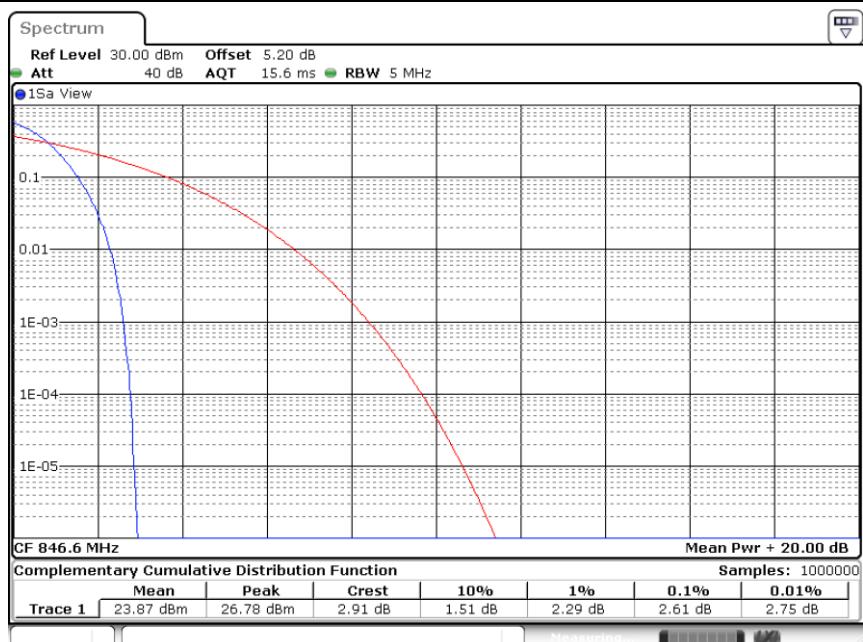
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Band5-4182



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Band5-4233



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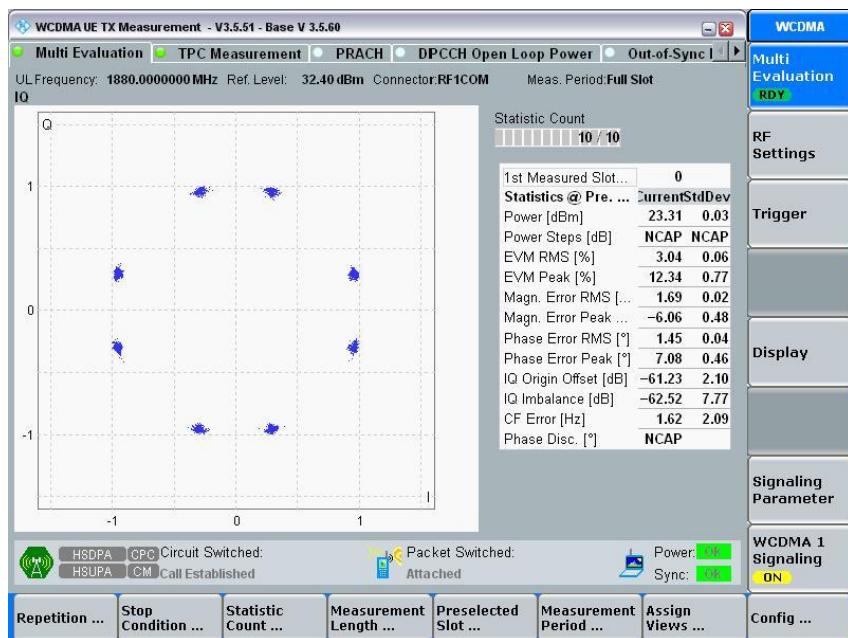
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3. Modulation Characteristics

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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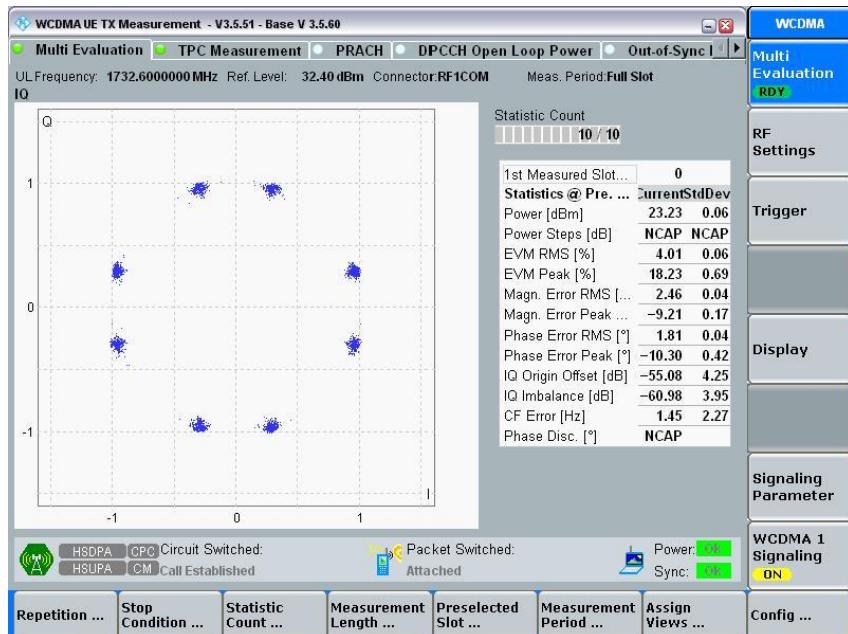
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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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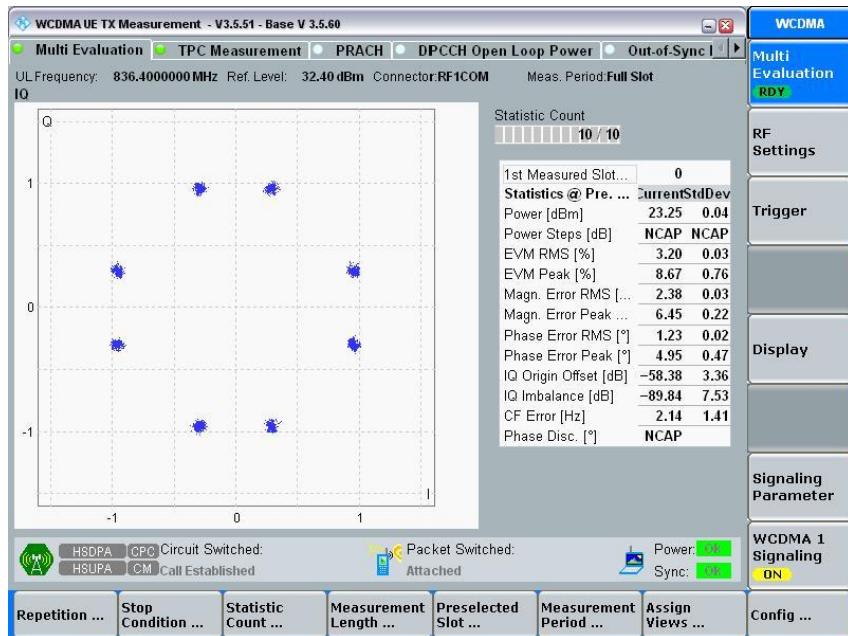
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3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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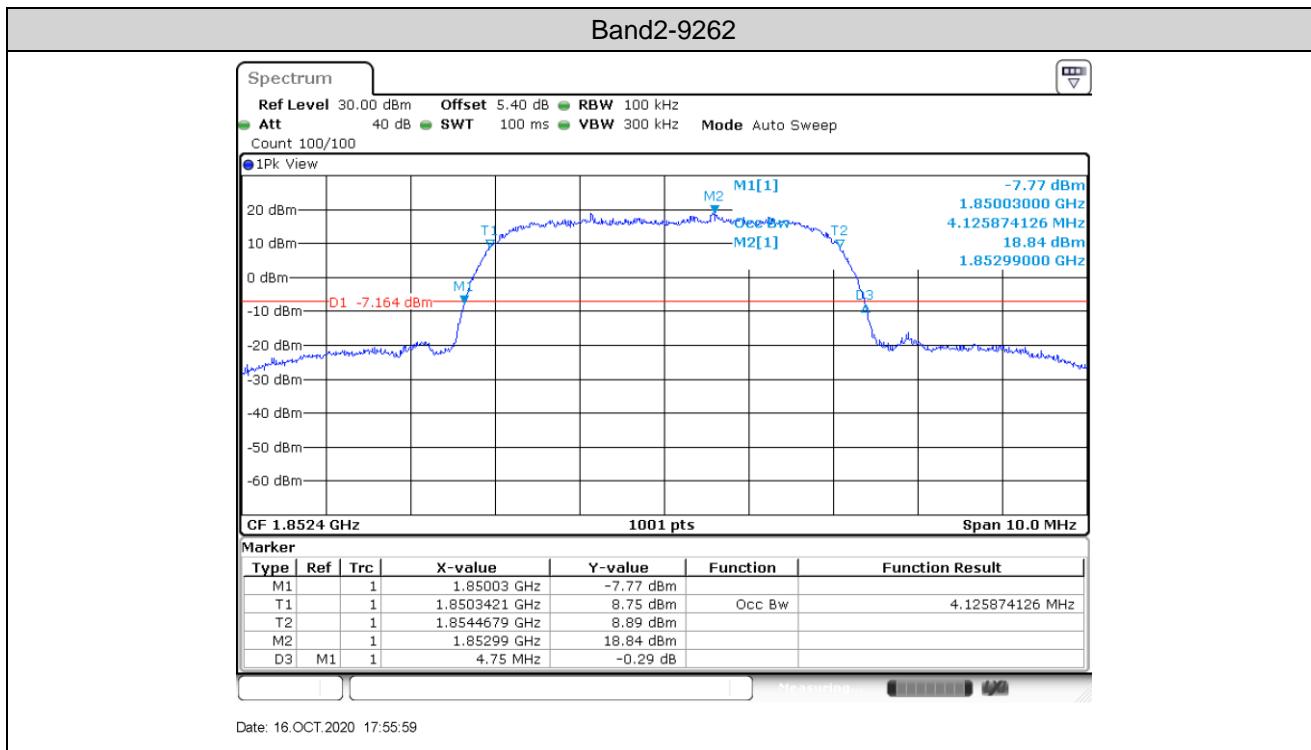
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.126	4.750	---	PASS
Band2	9400	4.116	4.710	---	PASS
Band2	9538	4.116	4.720	---	PASS
Band4	1312	4.106	4.710	---	PASS
Band4	1413	4.116	4.710	---	PASS
Band4	1513	4.116	4.710	---	PASS
Band5	4132	4.116	4.750	---	PASS
Band5	4182	4.106	4.710	---	PASS
Band5	4233	4.116	4.740	---	PASS

4.2. Test Plots



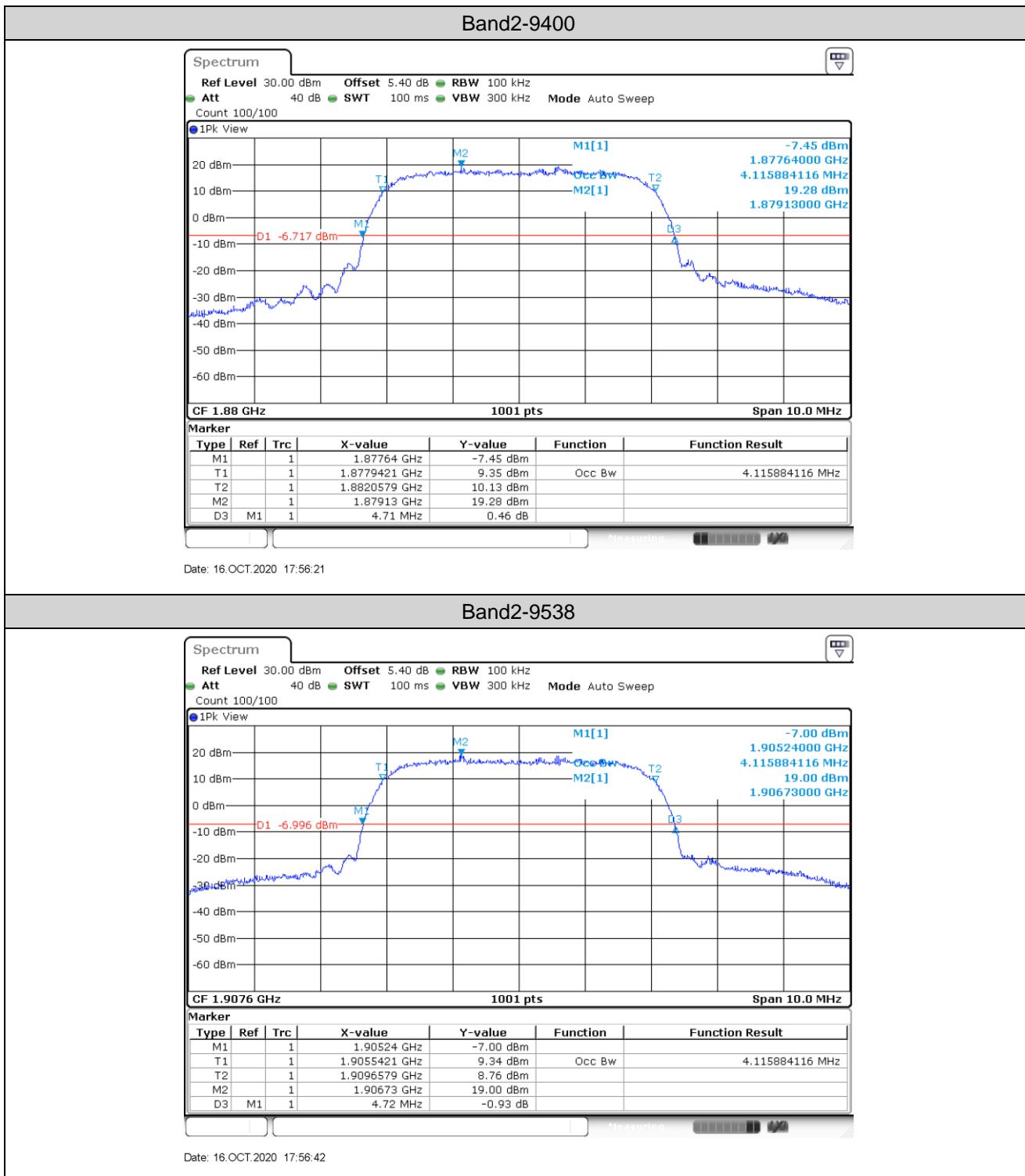
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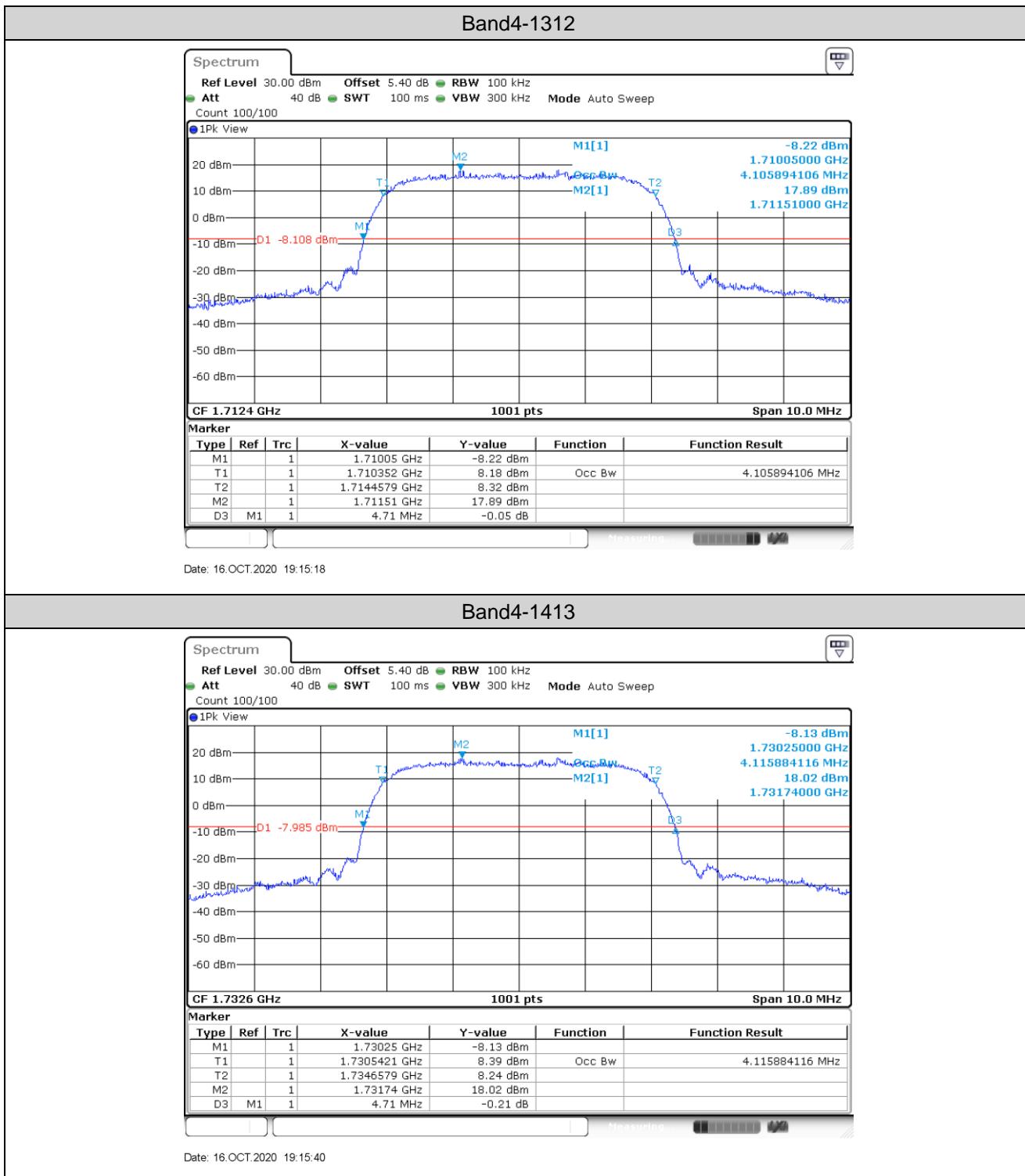
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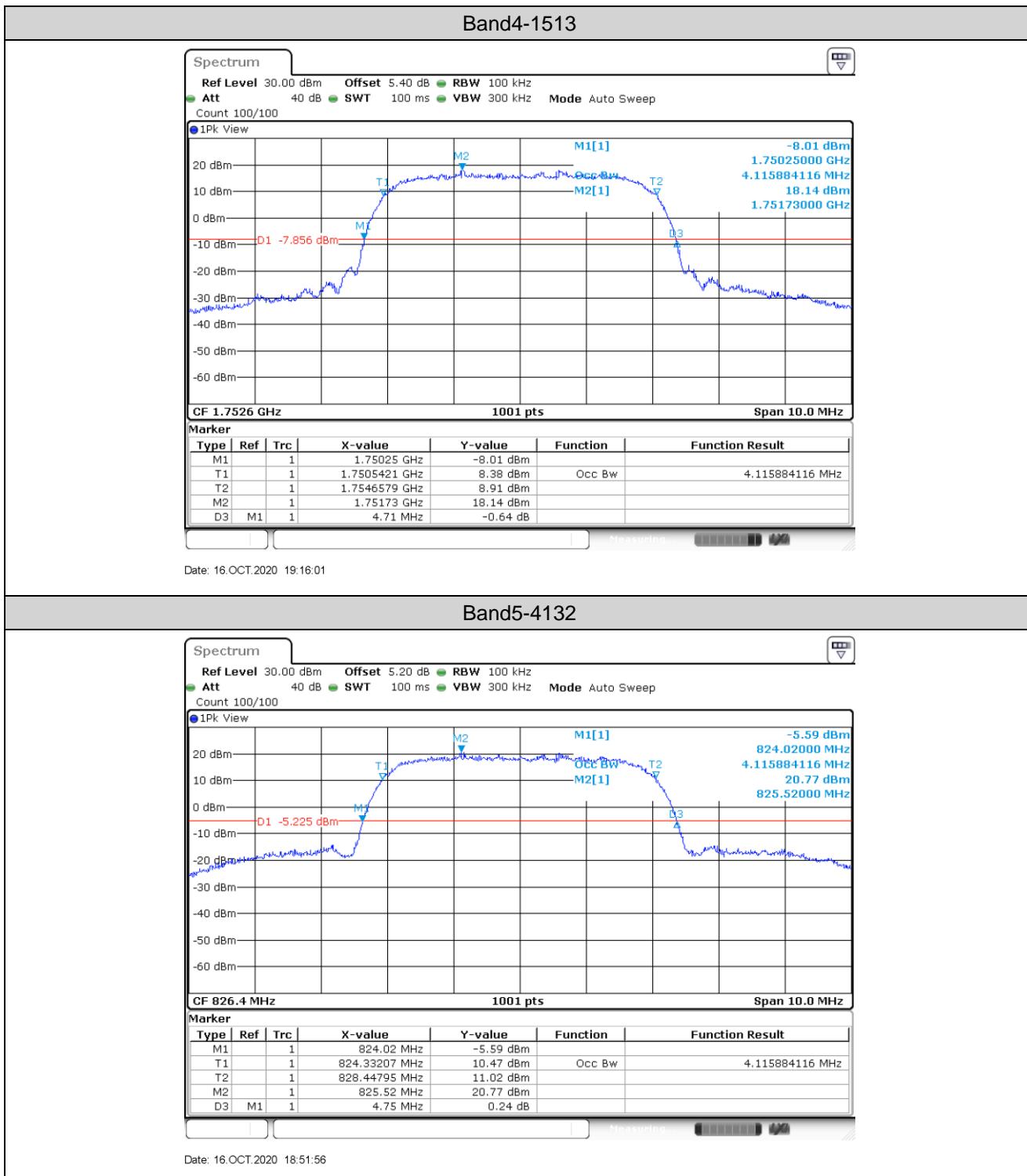
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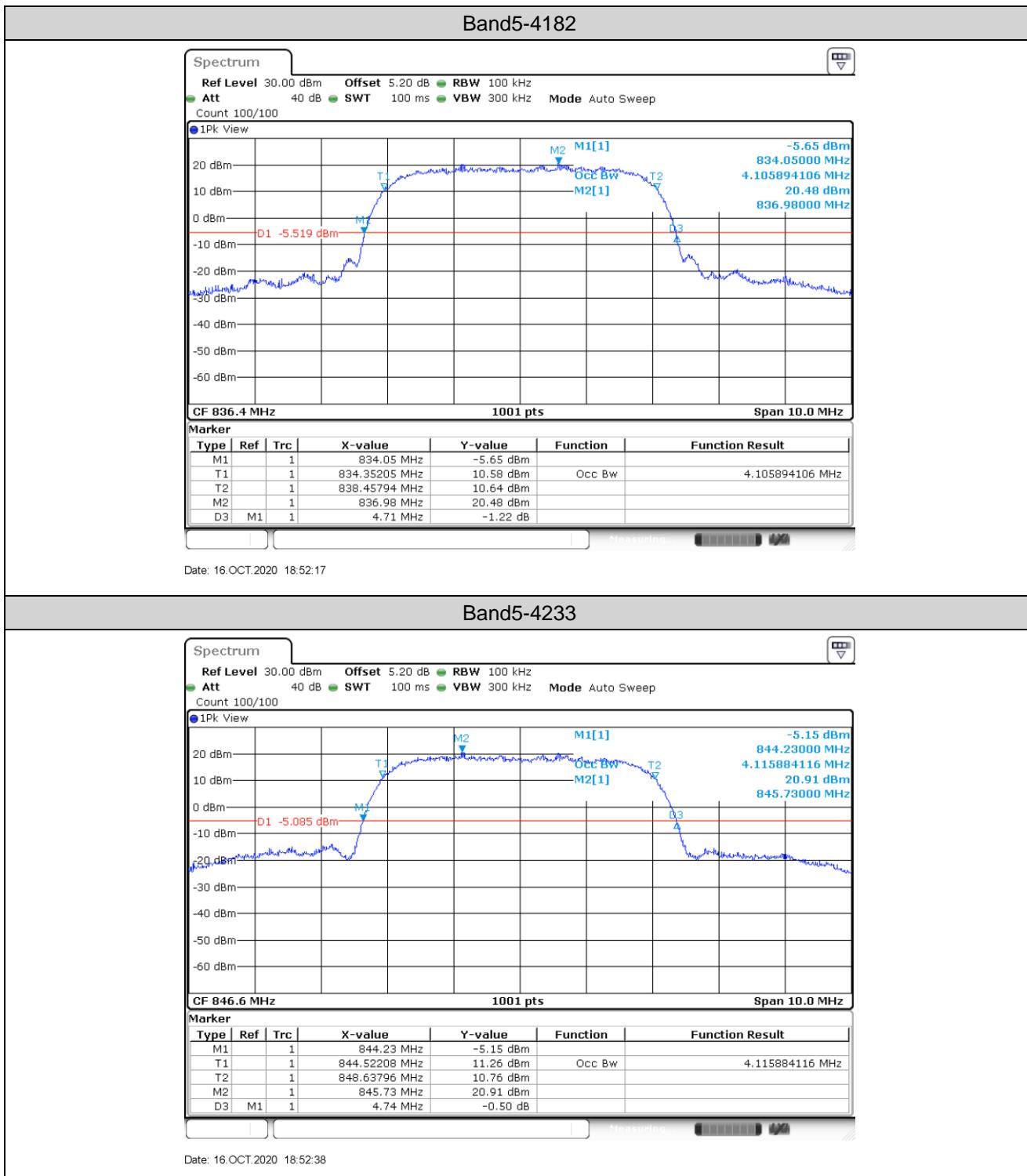
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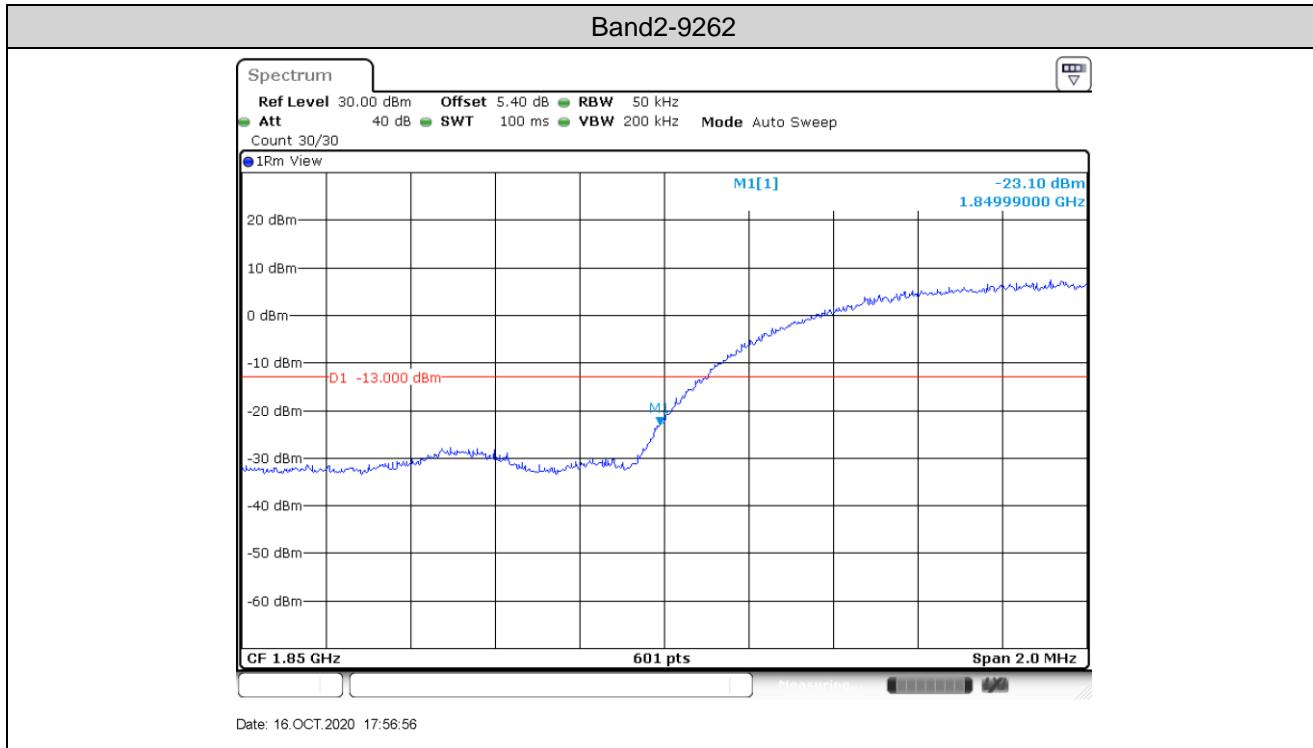


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5. Band Edge Compliance

5.1. Test Plots



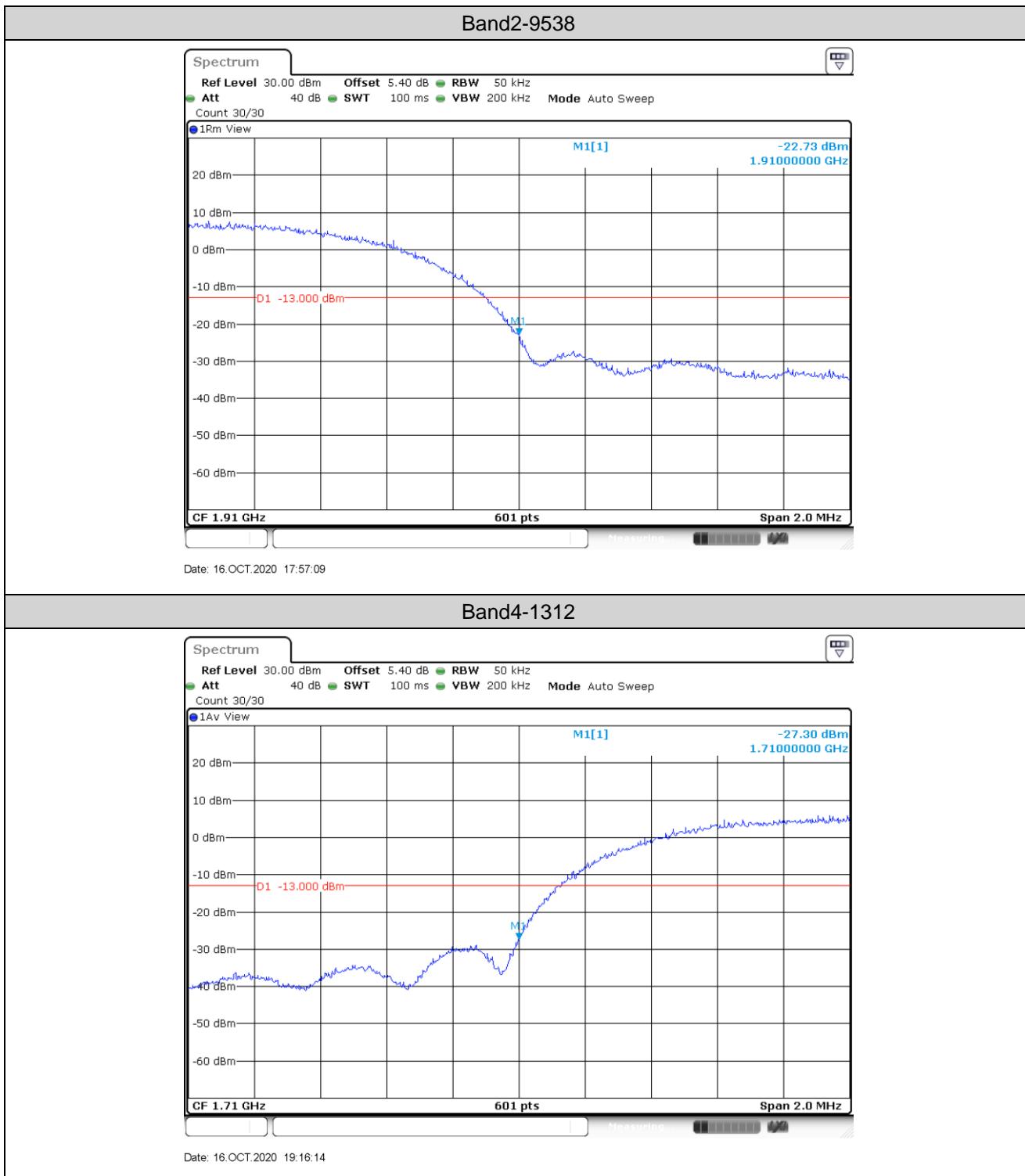
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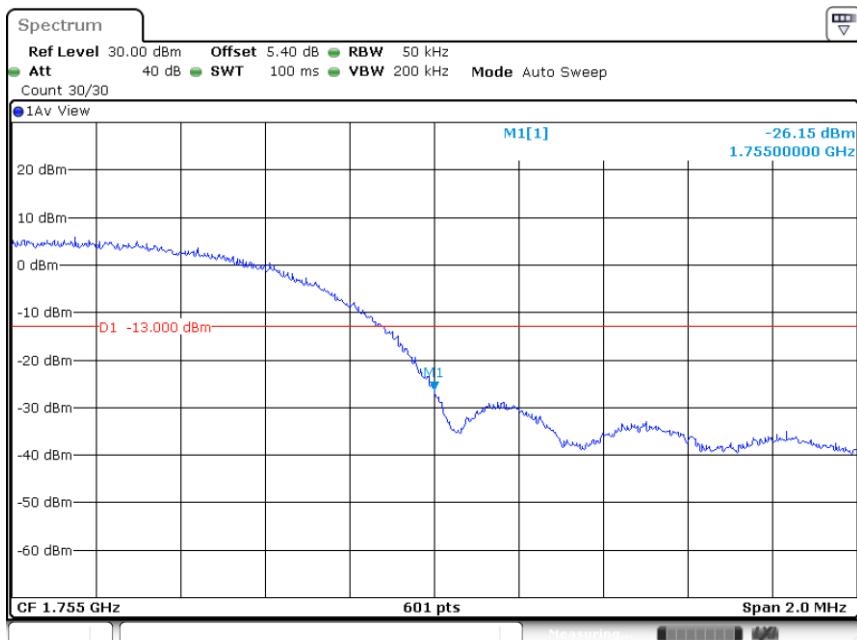
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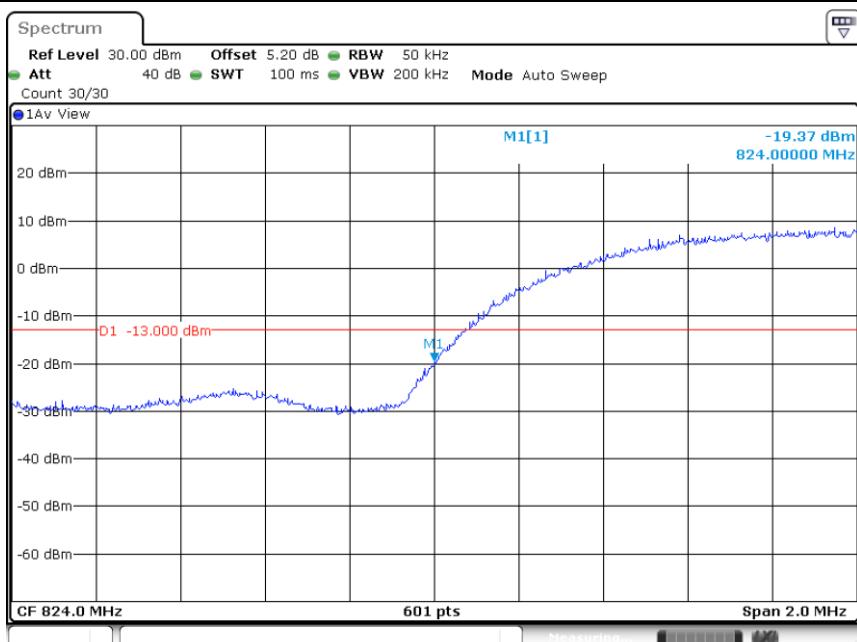
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Band4-1513



Date: 16.OCT.2020 19:16:27

Band5-4132



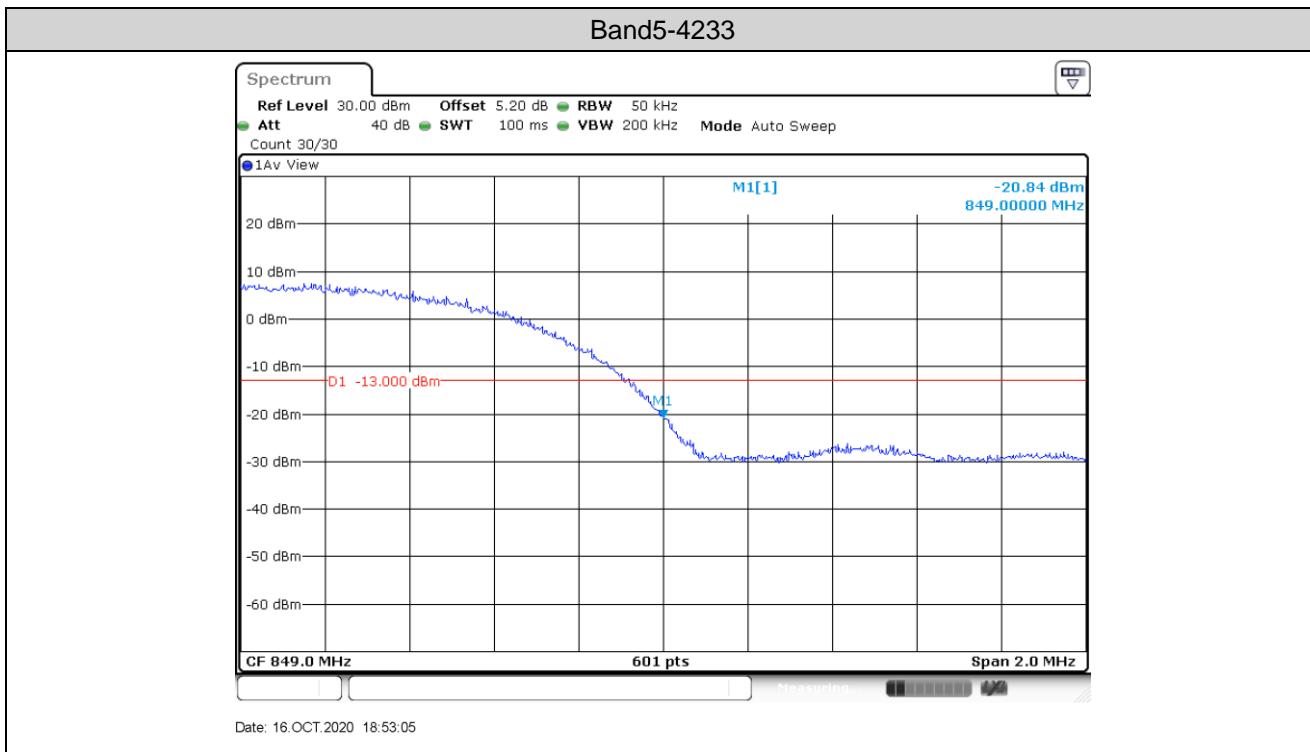
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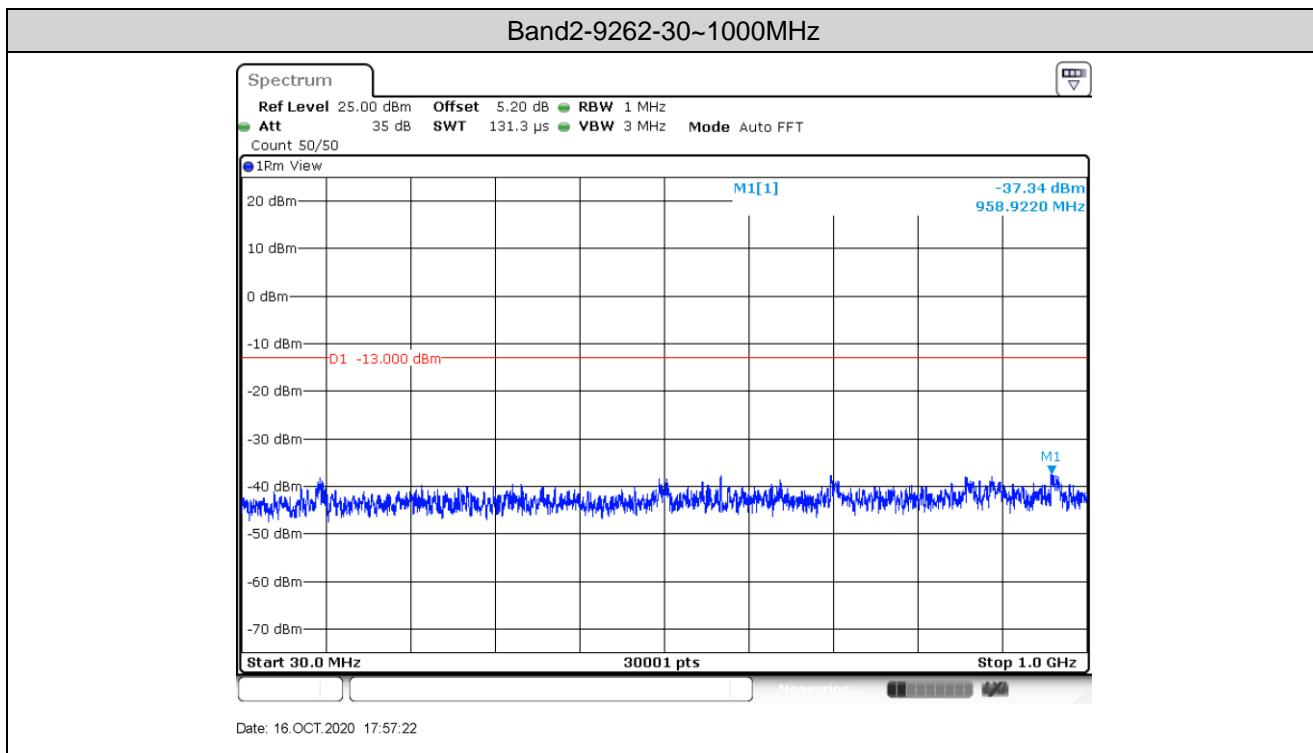
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6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ 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



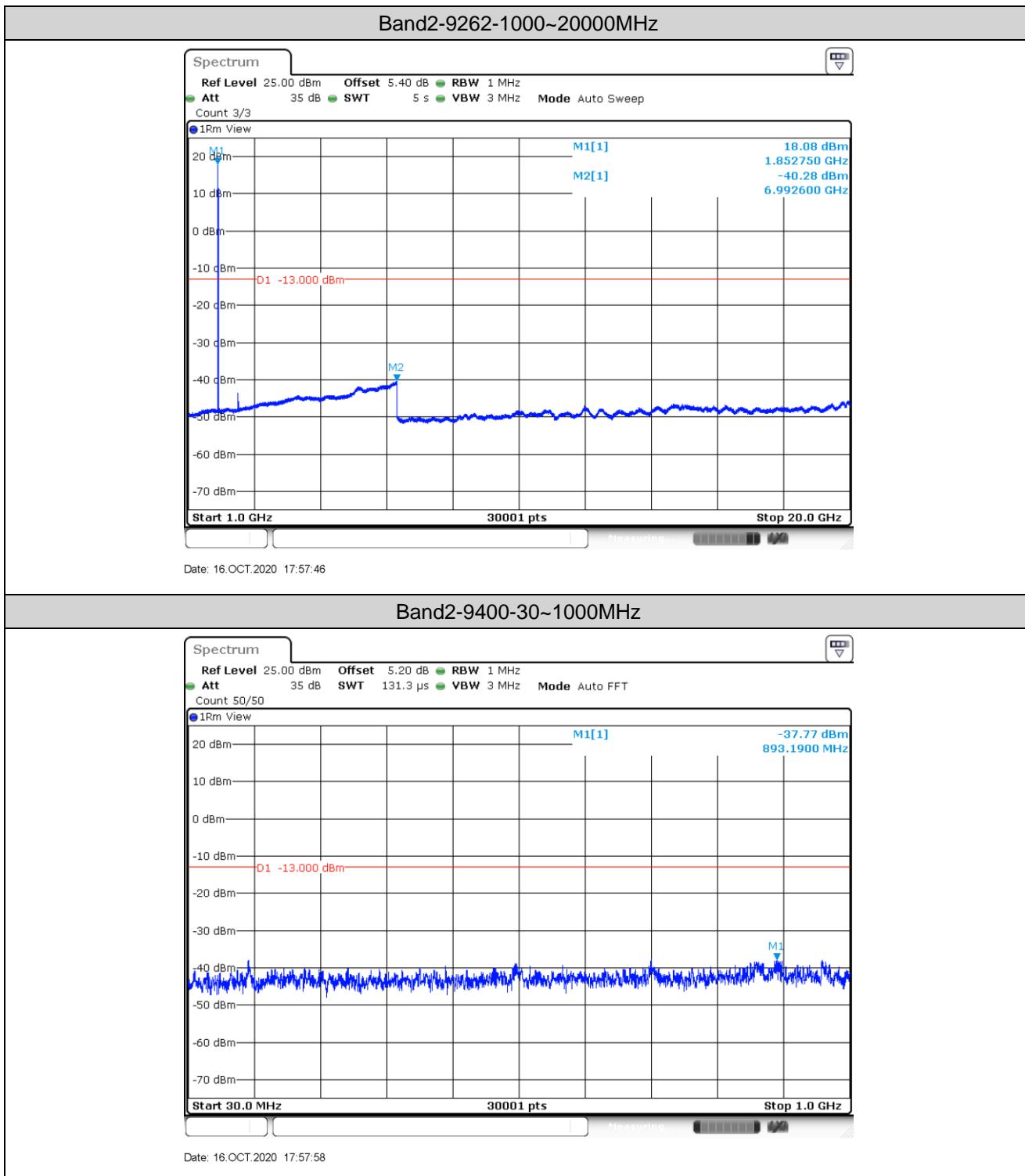
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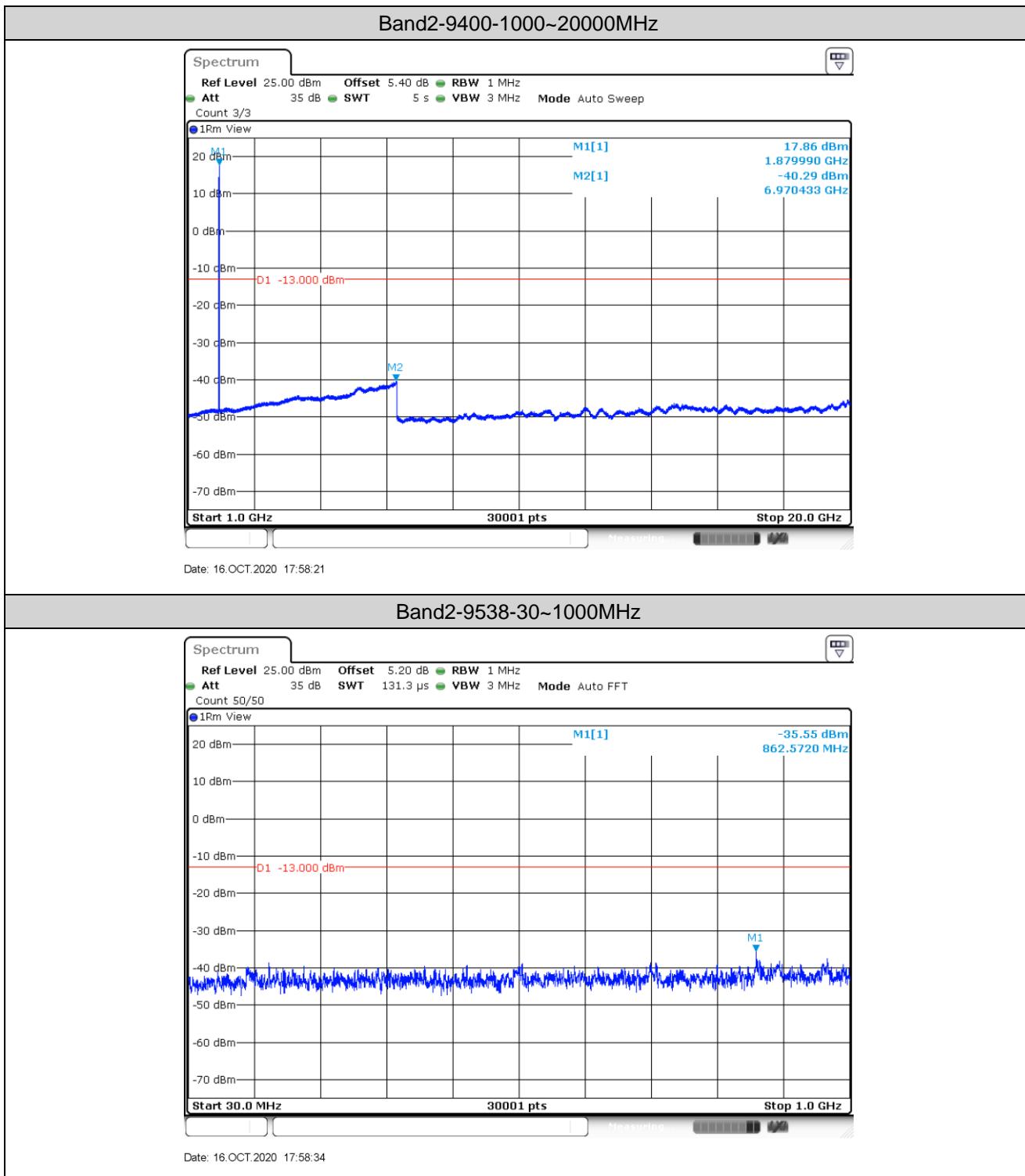


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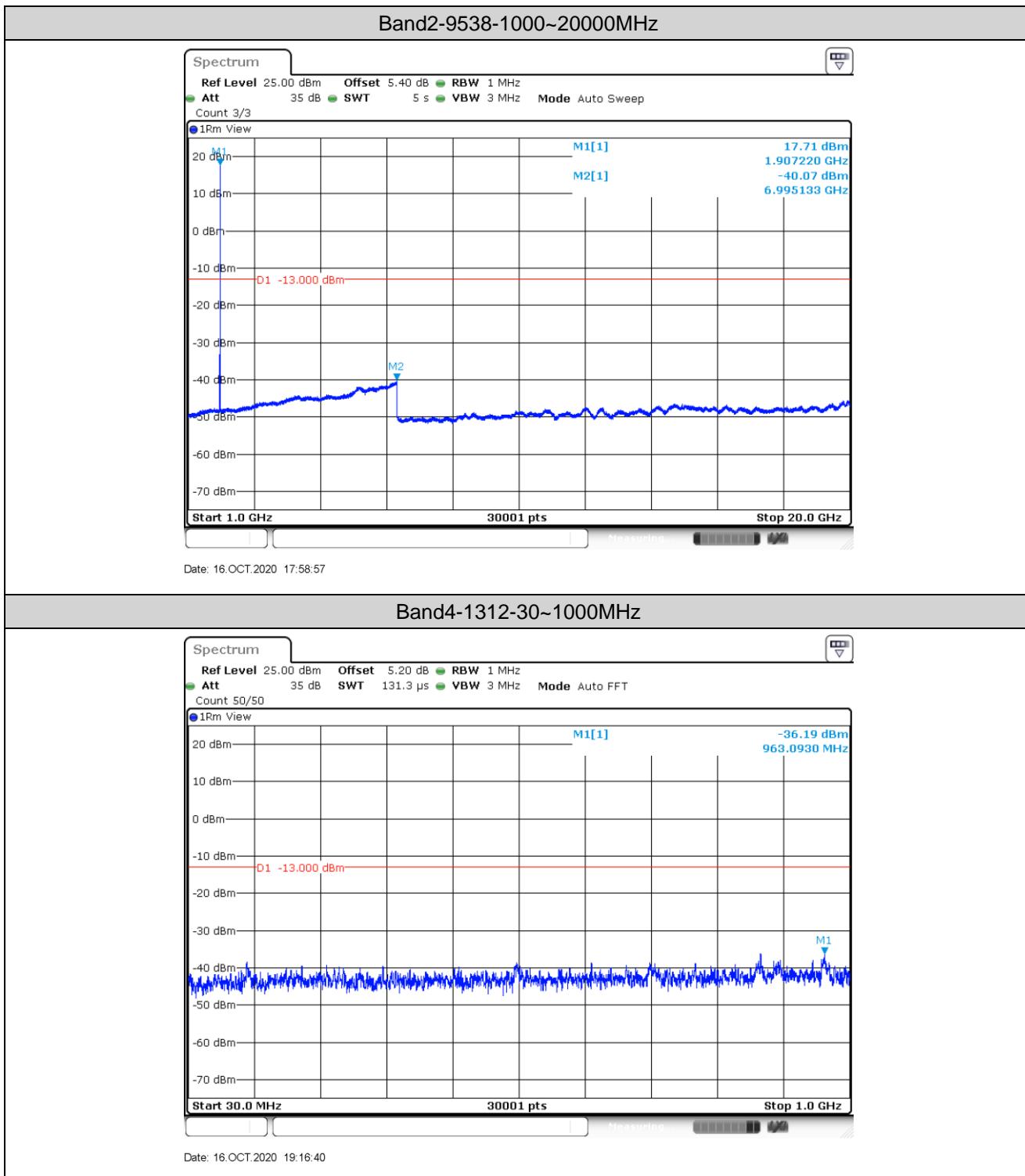
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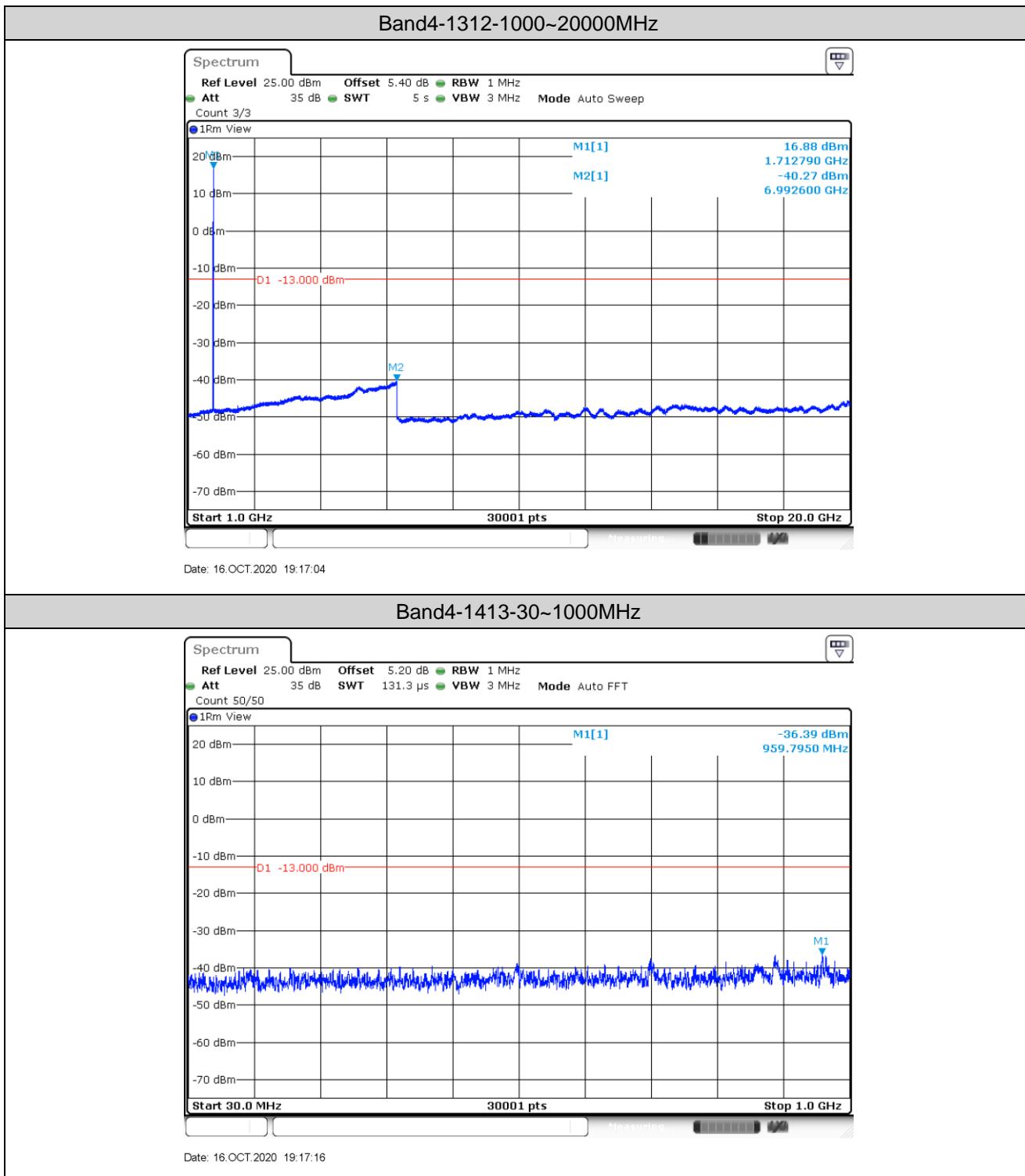


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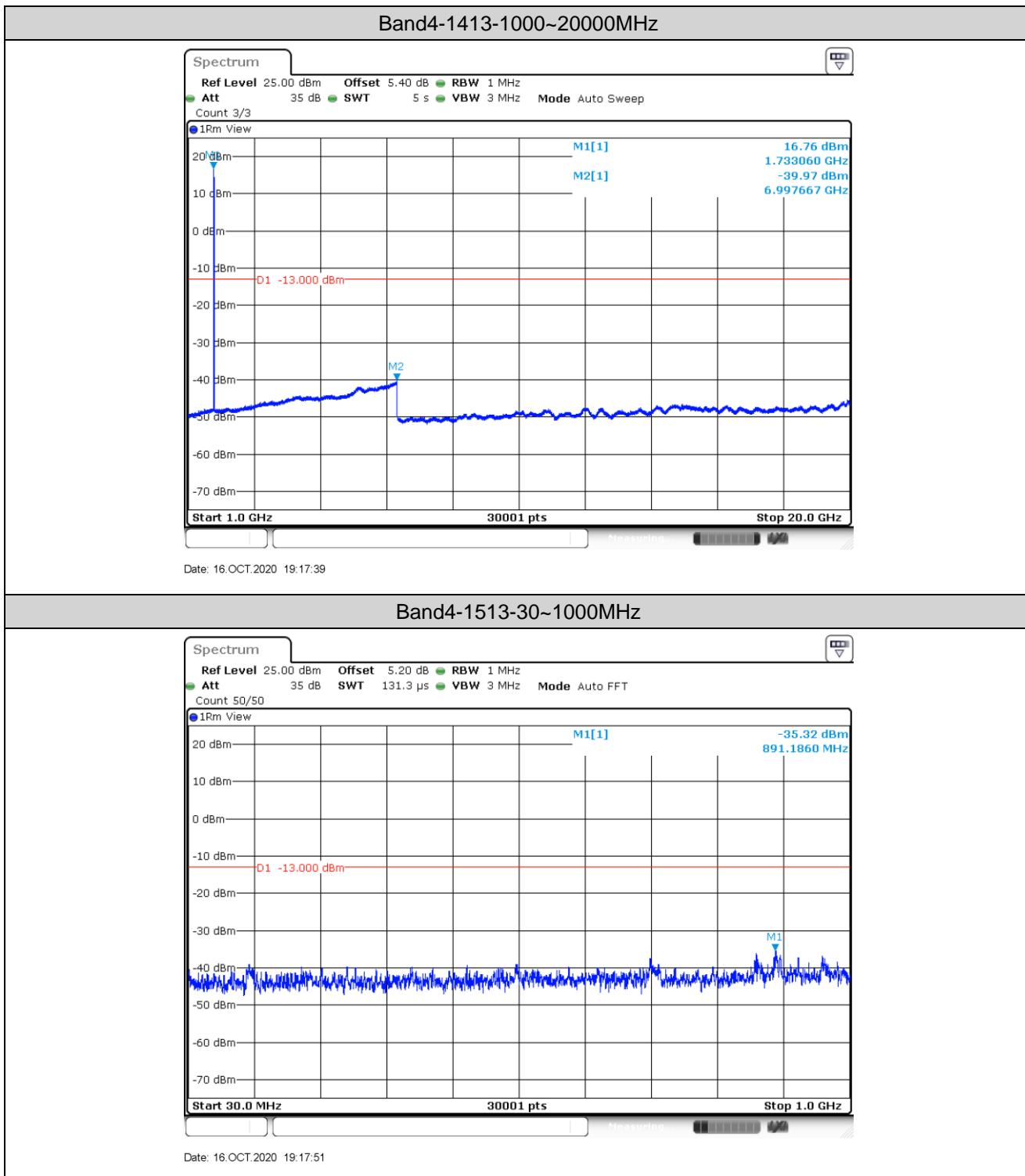
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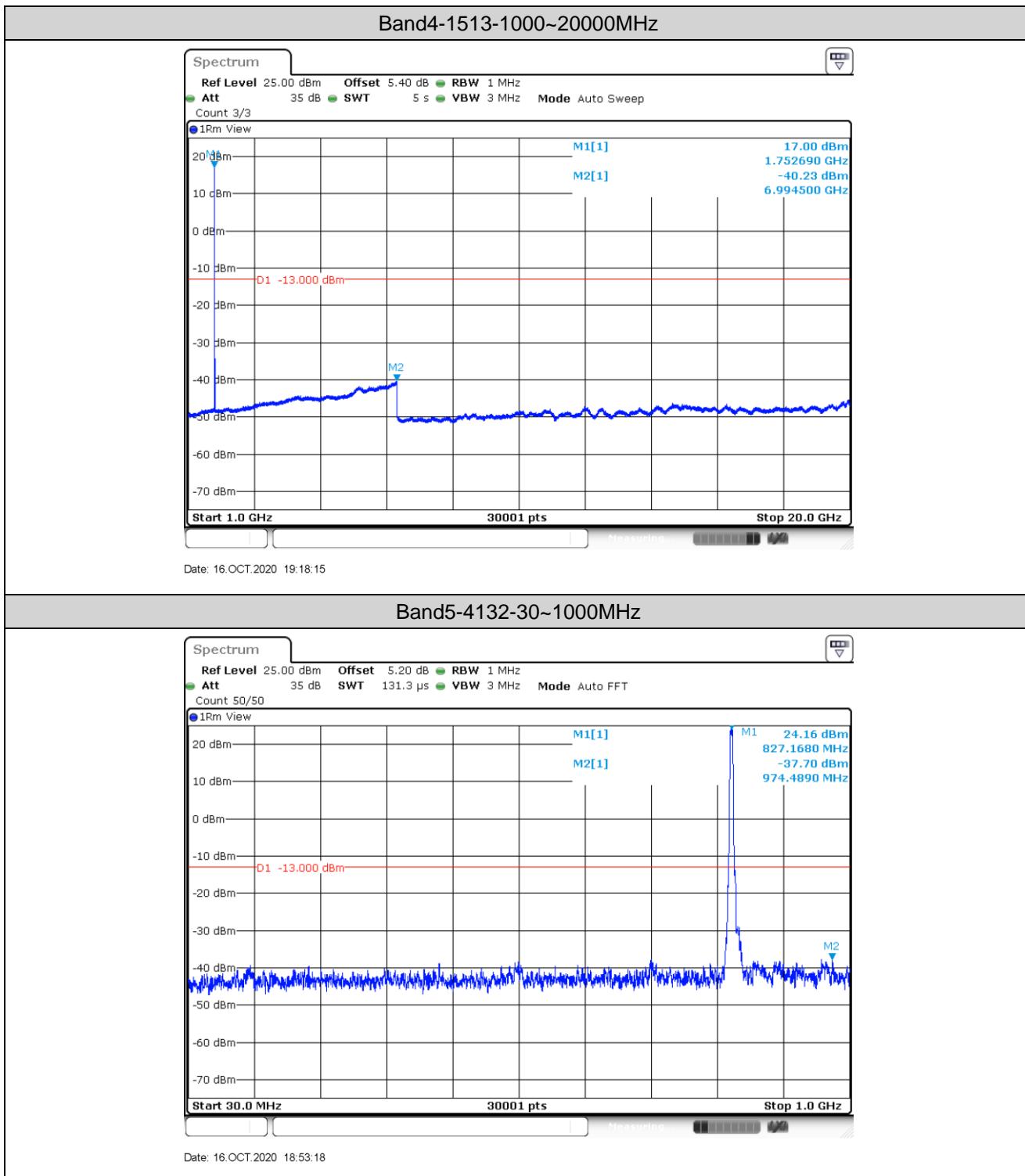


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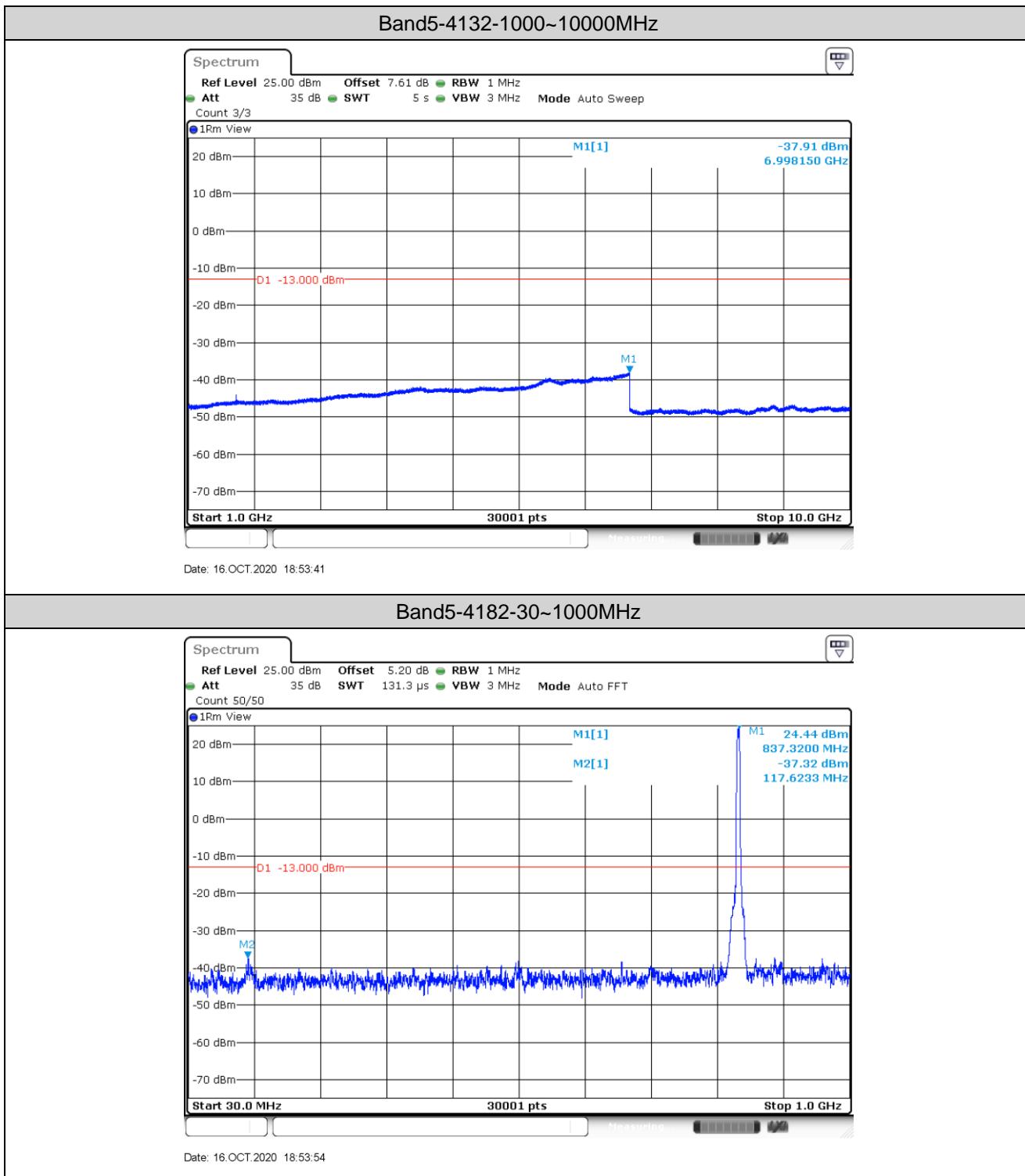
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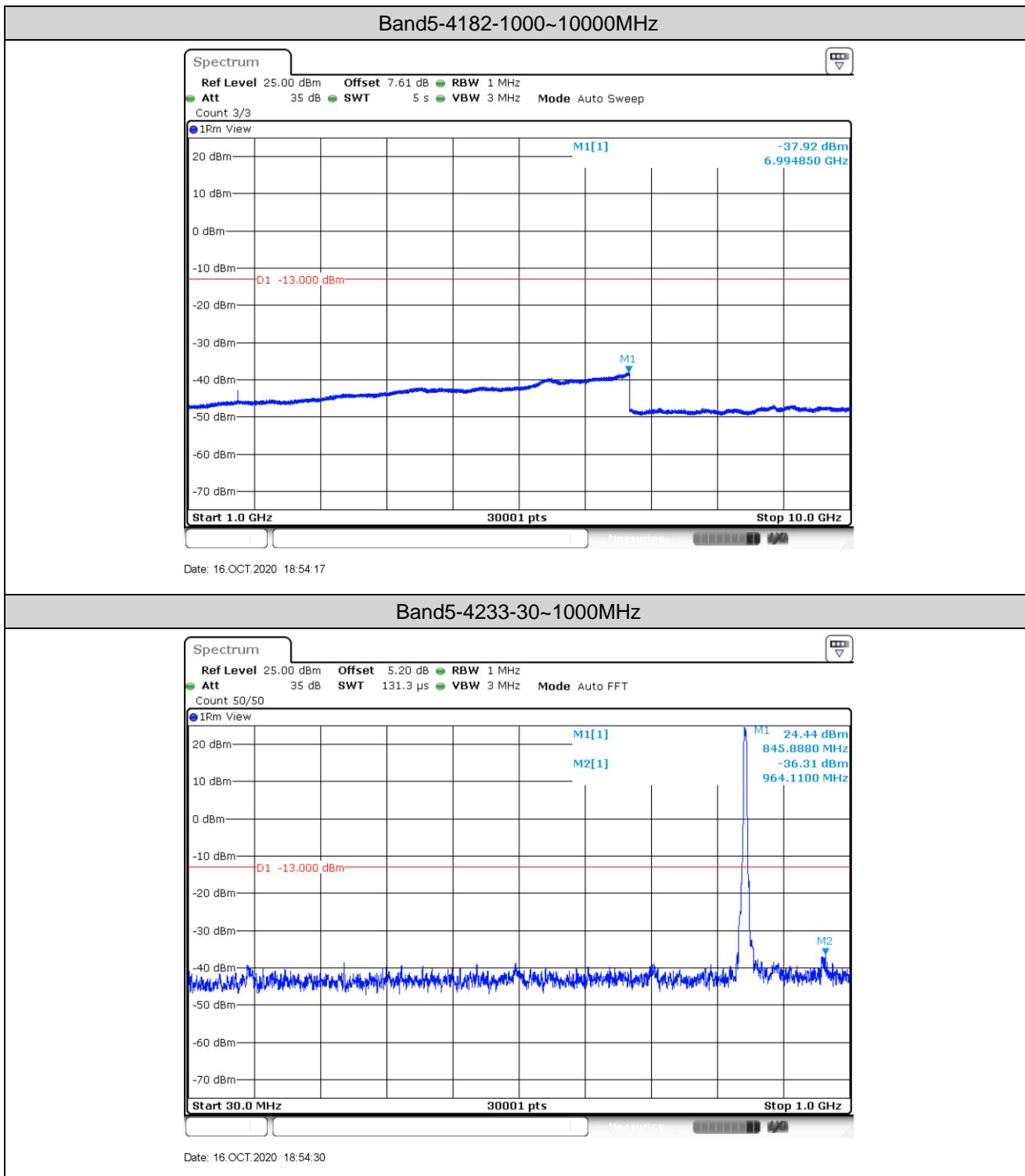
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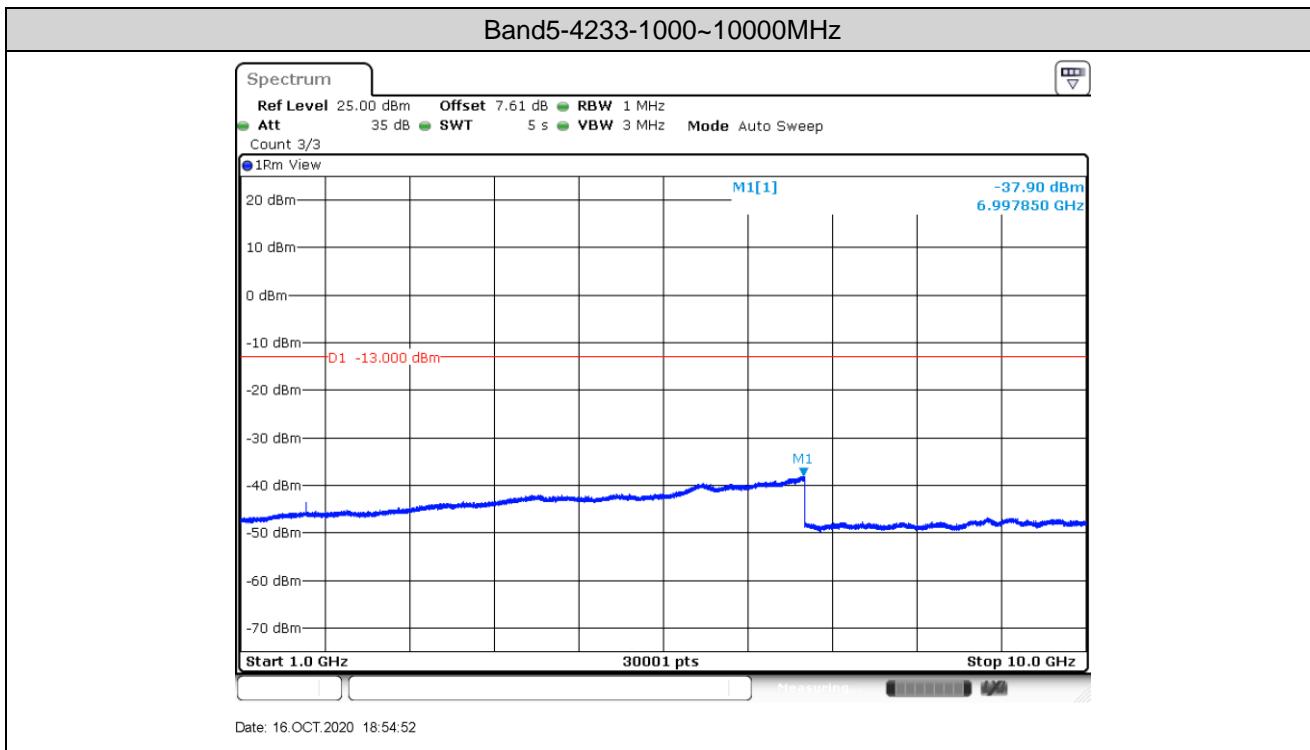


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7. Field Strength of Spurious Radiation

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
30.4850	-75.43	-13.00	62.43	236	227	Vertical
112.0176	-65.05	-13.00	52.05	222	99	Vertical
639.3360	-63.14	-13.00	50.14	284	227	Vertical
3765.5255	-61.99	-13.00	48.99	196	290	Vertical
7355.6452	-56.06	-13.00	43.06	218	99	Vertical
17995.4999	-40.41	-13.00	27.41	184	354	Vertical
45.4723	-63.83	-13.00	50.83	196	36	Horizontal
87.2329	-76.16	-13.00	63.16	143	163	Horizontal
233.5647	-67.65	-13.00	54.65	282	163	Horizontal
3646.0215	-61.19	-13.00	48.19	113	131	Horizontal
7472.6491	-56.71	-13.00	43.71	284	259	Horizontal
16395.9465	-44.08	-13.00	31.08	112	36	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
31.3581	-74.98	-13.00	61.98	252	35	Vertical
107.2644	-64.57	-13.00	51.57	185	67	Vertical
447.9454	-66.54	-13.00	53.54	263	227	Vertical
5023.5675	-62.01	-13.00	49.01	217	323	Vertical
7410.1470	-56.03	-13.00	43.03	199	323	Vertical
17995.9999	-40.21	-13.00	27.21	174	195	Vertical
42.2711	-63.51	-13.00	50.51	196	227	Horizontal
100.9590	-74.72	-13.00	61.72	134	131	Horizontal
242.1981	-67.87	-13.00	54.87	225	67	Horizontal
3648.5216	-61.47	-13.00	48.47	184	291	Horizontal
7480.1493	-56.29	-13.00	43.29	294	163	Horizontal
16398.4466	-43.68	-13.00	30.68	214	259	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
31.4551	-72.63	-13.00	59.63	196	260	Vertical
107.2644	-64.46	-13.00	51.46	134	164	Vertical
476.4163	-67.08	-13.00	54.08	152	291	Vertical
3711.5237	-61.95	-13.00	48.95	174	355	Vertical
7458.1486	-55.93	-13.00	42.93	111	228	Vertical
17989.9997	-40.26	-13.00	27.26	194	260	Vertical
41.9316	-63.65	-13.00	50.65	196	323	Horizontal
106.4398	-75.81	-13.00	62.81	134	259	Horizontal
235.3593	-66.48	-13.00	53.48	152	355	Horizontal
3530.5177	-61.32	-13.00	48.32	184	163	Horizontal
7446.6482	-56.82	-13.00	43.82	111	131	Horizontal
16380.4460	-43.53	-13.00	30.53	176	67	Horizontal

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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
31.0186	-72.94	-13.00	59.94	152	258	Vertical
111.0961	-62.11	-13.00	49.11	177	163	Vertical
454.3477	-64.57	-13.00	51.57	253	99	Vertical
3426.5142	-56.53	-13.00	43.53	288	226	Vertical
7457.6486	-53.50	-13.00	40.50	298	322	Vertical
17995.9999	-34.28	-13.00	21.28	213	131	Vertical
43.2897	-62.07	-13.00	49.07	252	131	Horizontal
98.4854	-73.58	-13.00	60.58	163	355	Horizontal
231.9156	-65.33	-13.00	52.33	174	291	Horizontal
3426.0142	-56.04	-13.00	43.04	166	163	Horizontal
7472.6491	-53.98	-13.00	40.98	217	323	Horizontal
16390.9464	-35.48	-13.00	22.48	115	195	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.3395	-73.01	-13.00	60.01	162	163	Vertical
110.4170	-62.56	-13.00	49.56	134	4	Vertical
382.4186	-65.15	-13.00	52.15	174	196	Vertical
3466.0155	-60.28	-13.00	47.28	253	227	Vertical
7436.1479	-53.19	-13.00	40.19	277	163	Vertical
17990.9997	-34.29	-13.00	21.29	294	163	Vertical
41.3981	-62.56	-13.00	49.56	151	291	Horizontal
101.0076	-72.47	-13.00	59.47	177	259	Horizontal
250.5405	-65.74	-13.00	52.74	256	163	Horizontal
3467.0156	-59.04	-13.00	46.04	196	163	Horizontal
7511.6504	-53.67	-13.00	40.67	134	259	Horizontal
16400.4467	-35.41	-13.00	22.41	184	354	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.4850	-73.18	-13.00	60.18	302	227	Vertical
108.5739	-62.79	-13.00	49.79	121	35	Vertical
434.8982	-64.63	-13.00	51.63	222	163	Vertical
3588.5196	-60.42	-13.00	47.42	196	227	Vertical
7384.1461	-53.30	-13.00	40.30	252	4	Vertical
17999.5000	-34.08	-13.00	21.08	196	195	Vertical
39.9430	-61.05	-13.00	48.05	196	259	Horizontal
105.8093	-72.56	-13.00	59.56	175	290	Horizontal
230.1695	-65.63	-13.00	52.63	121	131	Horizontal
3654.5218	-59.84	-13.00	46.84	136	259	Horizontal
7445.1482	-53.77	-13.00	40.77	172	354	Horizontal
16403.4468	-35.37	-13.00	22.37	184	67	Horizontal

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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
31.6976	-74.28	-13.00	61.28	136	227	Vertical
114.2972	-64.90	-13.00	51.90	163	354	Vertical
308.0159	-68.26	-13.00	55.26	196	354	Vertical
1776.1552	-58.85	-13.00	45.85	254	326	Vertical
2697.1394	-51.99	-13.00	38.99	244	329	Vertical
9315.1438	-52.35	-13.00	39.35	294	291	Vertical
44.3082	-64.33	-13.00	51.33	153	68	Horizontal
92.5196	-75.57	-13.00	62.57	254	260	Horizontal
237.5419	-68.02	-13.00	55.02	188	99	Horizontal
1654.9310	-60.20	-13.00	47.20	163	194	Horizontal
2472.6945	-51.25	-13.00	38.25	211	270	Horizontal
9324.7108	-52.91	-13.00	39.91	174	68	Horizontal

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7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.8245	-74.68	-13.00	61.68	152	4	Vertical
113.9092	-64.98	-13.00	51.98	287	163	Vertical
361.7566	-68.29	-13.00	55.29	177	68	Vertical
1765.3531	-57.54	-13.00	44.54	126	353	Vertical
2703.9408	-51.91	-13.00	38.91	264	329	Vertical
9786.9596	-52.51	-13.00	39.51	210	99	Vertical
40.6705	-63.83	-13.00	50.83	196	227	Horizontal
100.7650	-75.64	-13.00	62.64	288	354	Horizontal
234.5347	-68.05	-13.00	55.05	132	259	Horizontal
1670.9342	-58.79	-13.00	45.79	254	188	Horizontal
2694.3389	-50.80	-13.00	37.80	285	188	Horizontal
9331.2444	-52.51	-13.00	39.51	184	227	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.0000	-74.46	-13.00	61.46	296	99	Vertical
110.3200	-64.81	-13.00	51.81	243	35	Vertical
334.9832	-68.88	-13.00	55.88	111	195	Vertical
1694.9390	-59.86	-13.00	46.86	185	145	Vertical
3000.0000	-51.22	-13.00	38.22	121	351	Vertical
9884.7295	-52.41	-13.00	39.41	194	355	Vertical
42.0771	-63.81	-13.00	50.81	296	227	Horizontal
99.5525	-74.52	-13.00	61.52	252	163	Horizontal
231.6731	-67.41	-13.00	54.41	178	354	Horizontal
1694.9390	-58.28	-13.00	45.28	121	3	Horizontal
2699.5399	-50.85	-13.00	37.85	111	135	Horizontal
9976.8992	-52.53	-13.00	39.53	163	354	Horizontal

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Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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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	-0.21	-0.000113	±2.5	PASS
Band2	9262	VN	NT	-0.33	-0.000178	±2.5	PASS
Band2	9262	VH	NT	-0.35	-0.000189	±2.5	PASS
Band2	9400	VL	NT	-1.02	-0.000543	±2.5	PASS
Band2	9400	VN	NT	-1.45	-0.000771	±2.5	PASS
Band2	9400	VH	NT	-0.69	-0.000367	±2.5	PASS
Band2	9538	VL	NT	-1.95	-0.001022	±2.5	PASS
Band2	9538	VN	NT	-2.07	-0.001085	±2.5	PASS
Band2	9538	VH	NT	-2.46	-0.001290	±2.5	PASS
Band4	1312	VL	NT	5.24	0.003060	±2.5	PASS
Band4	1312	VN	NT	4.92	0.002873	±2.5	PASS
Band4	1312	VH	NT	5.43	0.003171	±2.5	PASS
Band4	1413	VL	NT	0.09	0.000052	±2.5	PASS
Band4	1413	VN	NT	0.22	0.000127	±2.5	PASS
Band4	1413	VH	NT	0.08	0.000046	±2.5	PASS
Band4	1513	VL	NT	-6.70	-0.003823	±2.5	PASS
Band4	1513	VN	NT	-6.59	-0.003760	±2.5	PASS
Band4	1513	VH	NT	-6.69	-0.003817	±2.5	PASS
Band5	4132	VL	NT	0.21	0.000254	±2.5	PASS
Band5	4132	VN	NT	0.05	0.000061	±2.5	PASS
Band5	4132	VH	NT	0.05	0.000061	±2.5	PASS
Band5	4182	VL	NT	-0.06	-0.000072	±2.5	PASS
Band5	4182	VN	NT	-0.18	-0.000215	±2.5	PASS
Band5	4182	VH	NT	0.03	0.000036	±2.5	PASS
Band5	4233	VL	NT	-0.77	-0.000910	±2.5	PASS
Band5	4233	VN	NT	-0.54	-0.000638	±2.5	PASS
Band5	4233	VH	NT	-0.79	-0.000933	±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	-0.01	-0.000005	±2.5	PASS
Band2	9262	NV	-20	-0.09	-0.000049	±2.5	PASS
Band2	9262	NV	-10	0.28	0.000151	±2.5	PASS
Band2	9262	NV	0	0.26	0.000140	±2.5	PASS
Band2	9262	NV	10	0.56	0.000302	±2.5	PASS
Band2	9262	NV	20	0.44	0.000238	±2.5	PASS
Band2	9262	NV	30	0.09	0.000049	±2.5	PASS
Band2	9262	NV	40	0.45	0.000243	±2.5	PASS
Band2	9262	NV	50	0.59	0.000319	±2.5	PASS
Band2	9400	NV	-30	-0.80	-0.000426	±2.5	PASS
Band2	9400	NV	-20	-0.56	-0.000298	±2.5	PASS
Band2	9400	NV	-10	-0.54	-0.000287	±2.5	PASS
Band2	9400	NV	0	-0.62	-0.000330	±2.5	PASS
Band2	9400	NV	10	-0.41	-0.000218	±2.5	PASS
Band2	9400	NV	20	-0.64	-0.000340	±2.5	PASS
Band2	9400	NV	30	-0.58	-0.000309	±2.5	PASS
Band2	9400	NV	40	-0.67	-0.000356	±2.5	PASS
Band2	9400	NV	50	-0.65	-0.000346	±2.5	PASS
Band2	9538	NV	-30	-1.83	-0.000959	±2.5	PASS
Band2	9538	NV	-20	-2.27	-0.001190	±2.5	PASS
Band2	9538	NV	-10	-2.16	-0.001132	±2.5	PASS
Band2	9538	NV	0	-2.22	-0.001164	±2.5	PASS
Band2	9538	NV	10	-2.33	-0.001221	±2.5	PASS
Band2	9538	NV	20	-2.65	-0.001389	±2.5	PASS
Band2	9538	NV	30	-2.04	-0.001069	±2.5	PASS
Band2	9538	NV	40	-2.14	-0.001122	±2.5	PASS
Band2	9538	NV	50	-2.12	-0.001111	±2.5	PASS
Band4	1312	NV	-30	5.35	0.003124	±2.5	PASS
Band4	1312	NV	-20	5.54	0.003235	±2.5	PASS
Band4	1312	NV	-10	5.43	0.003171	±2.5	PASS
Band4	1312	NV	0	5.12	0.002990	±2.5	PASS
Band4	1312	NV	10	5.48	0.003200	±2.5	PASS
Band4	1312	NV	20	5.59	0.003264	±2.5	PASS

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Band4	1312	NV	30	5.38	0.003142	±2.5	PASS
Band4	1312	NV	40	5.53	0.003229	±2.5	PASS
Band4	1312	NV	50	5.26	0.003072	±2.5	PASS
Band4	1413	NV	-30	0.21	0.000121	±2.5	PASS
Band4	1413	NV	-20	-1.95	-0.001125	±2.5	PASS
Band4	1413	NV	-10	0.67	0.000387	±2.5	PASS
Band4	1413	NV	0	0.06	0.000035	±2.5	PASS
Band4	1413	NV	10	-0.04	-0.000023	±2.5	PASS
Band4	1413	NV	20	0.09	0.000052	±2.5	PASS
Band4	1413	NV	30	-0.22	-0.000127	±2.5	PASS
Band4	1413	NV	40	-0.04	-0.000023	±2.5	PASS
Band4	1413	NV	50	-0.16	-0.000092	±2.5	PASS
Band4	1513	NV	-30	-5.74	-0.003275	±2.5	PASS
Band4	1513	NV	-20	-5.62	-0.003207	±2.5	PASS
Band4	1513	NV	-10	-5.28	-0.003013	±2.5	PASS
Band4	1513	NV	0	-4.79	-0.002733	±2.5	PASS
Band4	1513	NV	10	-4.63	-0.002642	±2.5	PASS
Band4	1513	NV	20	-4.79	-0.002733	±2.5	PASS
Band4	1513	NV	30	-4.84	-0.002762	±2.5	PASS
Band4	1513	NV	40	-4.81	-0.002744	±2.5	PASS
Band4	1513	NV	50	-4.58	-0.002613	±2.5	PASS
Band5	4132	NV	-30	0.09	0.000109	±2.5	PASS
Band5	4132	NV	-20	0.23	0.000278	±2.5	PASS
Band5	4132	NV	-10	0.14	0.000169	±2.5	PASS
Band5	4132	NV	0	0.33	0.000399	±2.5	PASS
Band5	4132	NV	10	0.21	0.000254	±2.5	PASS
Band5	4132	NV	20	0.35	0.000424	±2.5	PASS
Band5	4132	NV	30	0.34	0.000411	±2.5	PASS
Band5	4132	NV	40	0.19	0.000230	±2.5	PASS
Band5	4132	NV	50	0.36	0.000436	±2.5	PASS
Band5	4182	NV	-30	-0.02	-0.000024	±2.5	PASS
Band5	4182	NV	-20	0.26	0.000311	±2.5	PASS
Band5	4182	NV	-10	-0.06	-0.000072	±2.5	PASS
Band5	4182	NV	0	-0.01	-0.000012	±2.5	PASS
Band5	4182	NV	10	0.04	0.000048	±2.5	PASS
Band5	4182	NV	20	-0.01	-0.000012	±2.5	PASS
Band5	4182	NV	30	0.04	0.000048	±2.5	PASS

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Band5	4182	NV	40	0.04	0.000048	±2.5	PASS
Band5	4182	NV	50	-0.09	-0.000108	±2.5	PASS
Band5	4233	NV	-30	-0.68	-0.000803	±2.5	PASS
Band5	4233	NV	-20	-0.82	-0.000969	±2.5	PASS
Band5	4233	NV	-10	-0.75	-0.000886	±2.5	PASS
Band5	4233	NV	0	-0.81	-0.000957	±2.5	PASS
Band5	4233	NV	10	-0.74	-0.000874	±2.5	PASS
Band5	4233	NV	20	-0.81	-0.000957	±2.5	PASS
Band5	4233	NV	30	-0.69	-0.000815	±2.5	PASS
Band5	4233	NV	40	-0.72	-0.000850	±2.5	PASS
Band5	4233	NV	50	-0.75	-0.000886	±2.5	PASS

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