

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	23.67	24.57	33.00	PASS
Band II	9400	23.58	24.48	33.00	PASS
Band II	9538	23.62	24.52	33.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.77	20.22	38.45	PASS
Band V	4182	23.48	19.93	38.45	PASS
Band V	4233	23.61	20.06	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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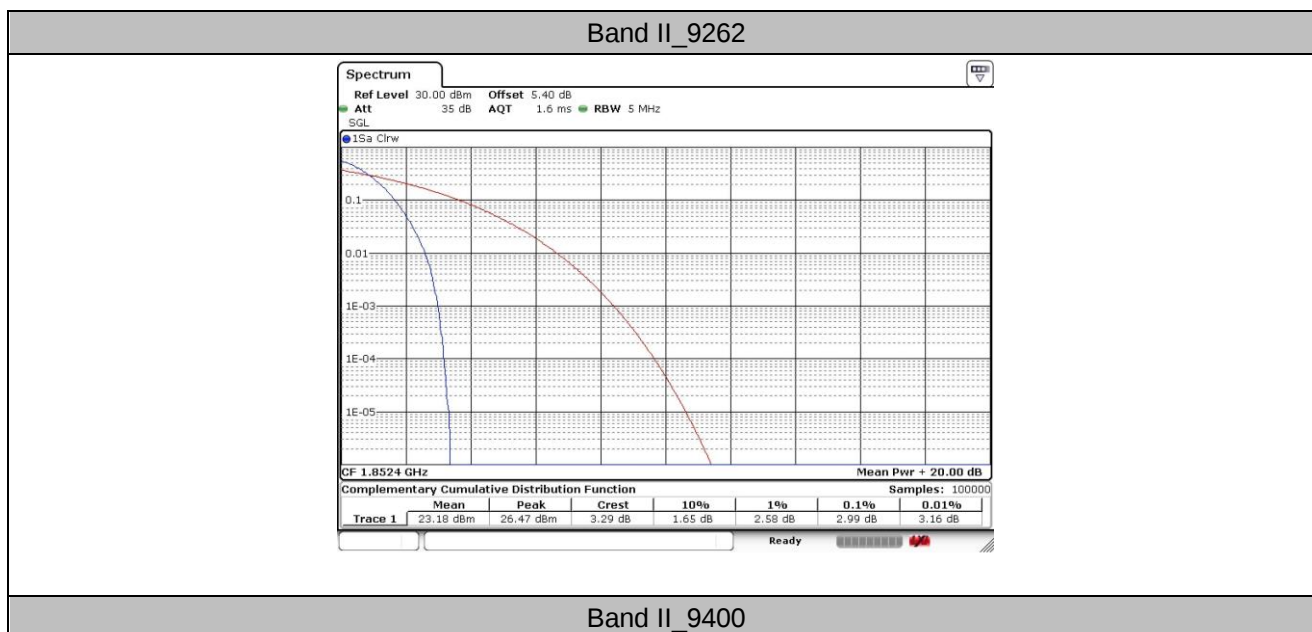
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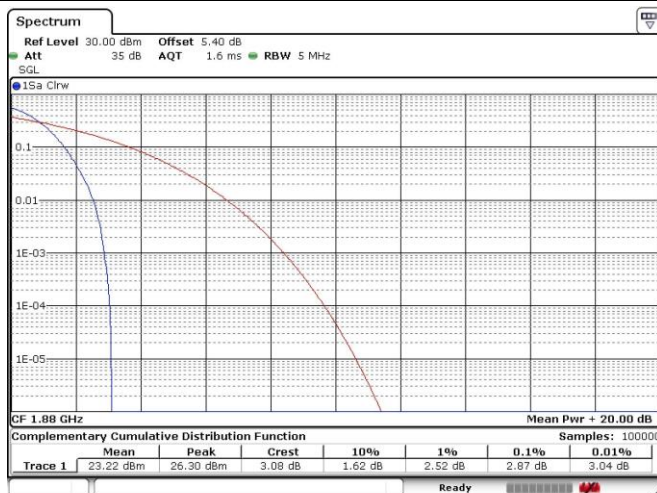
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

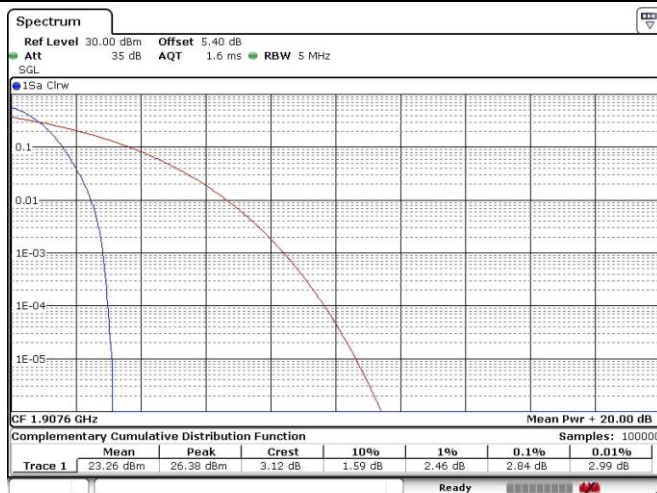
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.99	13.00	PASS
Band II	9400	2.87	13.00	PASS
Band II	9538	2.84	13.00	PASS
Band V	4132	2.70	13.00	PASS
Band V	4182	2.96	13.00	PASS
Band V	4233	2.99	13.00	PASS

2.2. Test Plots





Band II_9538

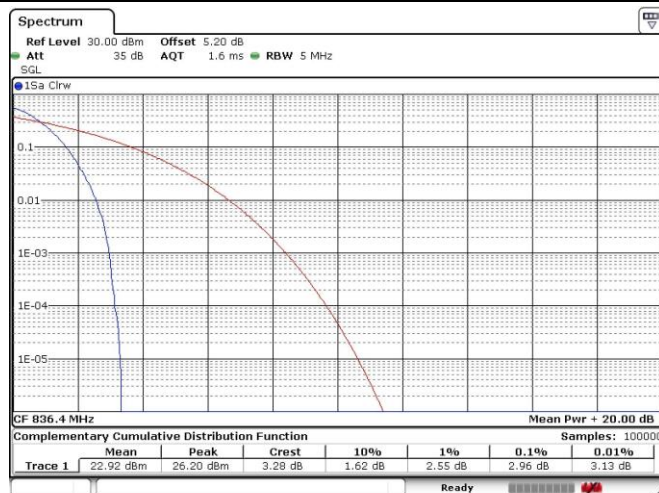


Band V_4132





Band V_4182



Band V_4233





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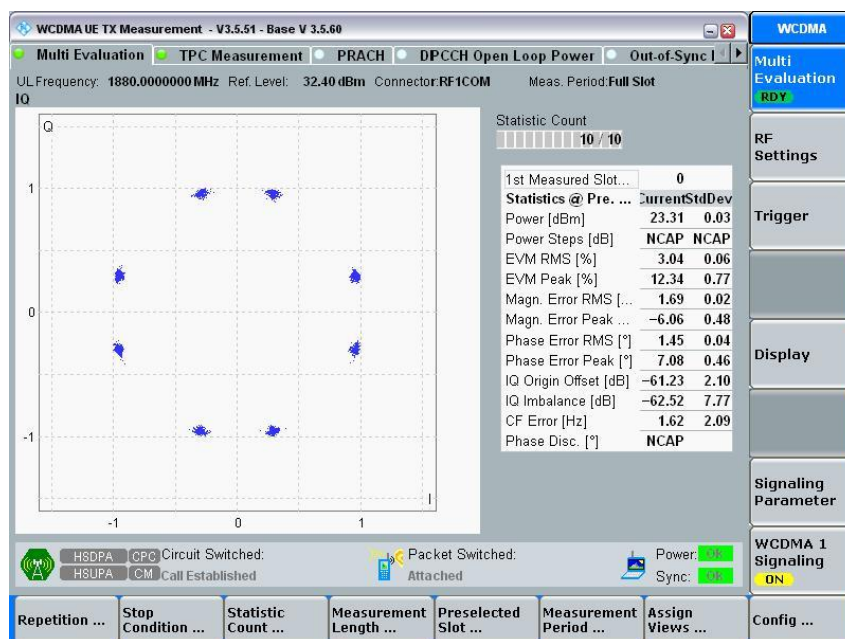
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH

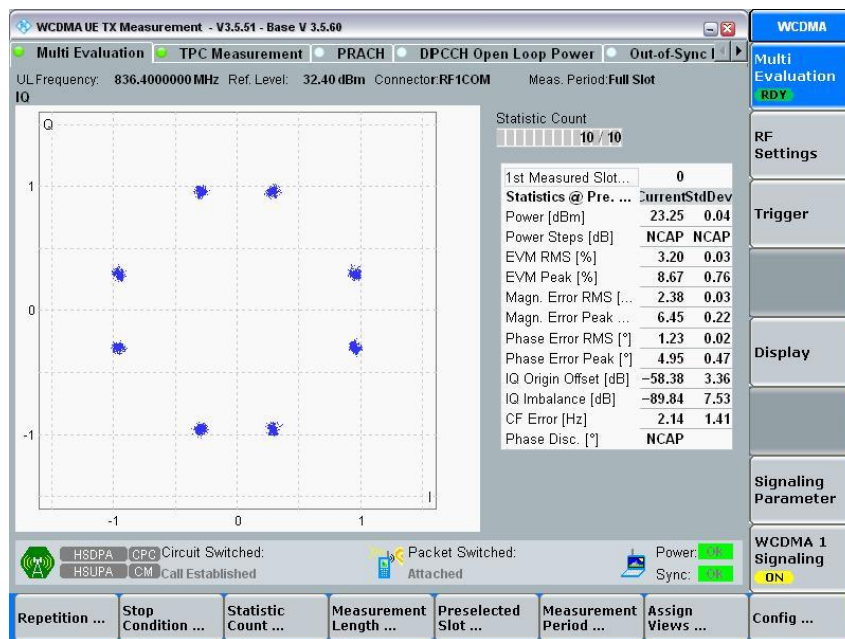


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3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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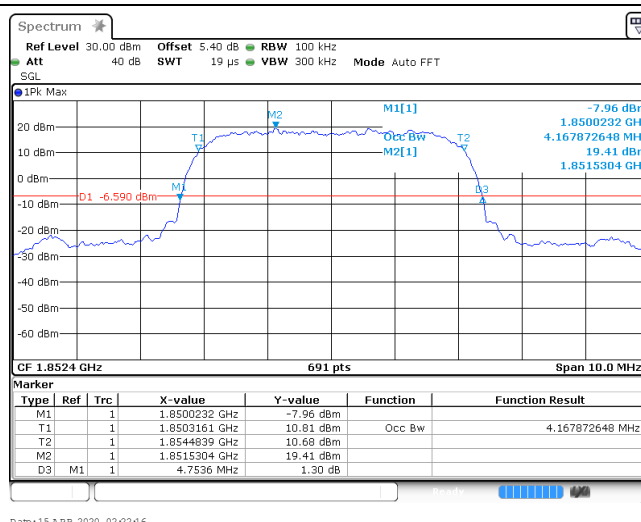


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4754	---	PASS
Band II	9400	4153.4	4725	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band V	4132	4153.4	4725	---	PASS
Band V	4182	4153.4	4725	---	PASS
Band V	4233	4153.4	4710	---	PASS

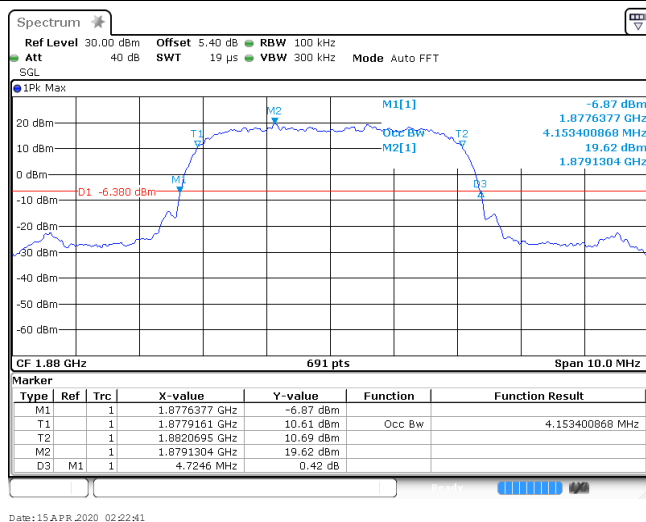
4.2. Test Plots



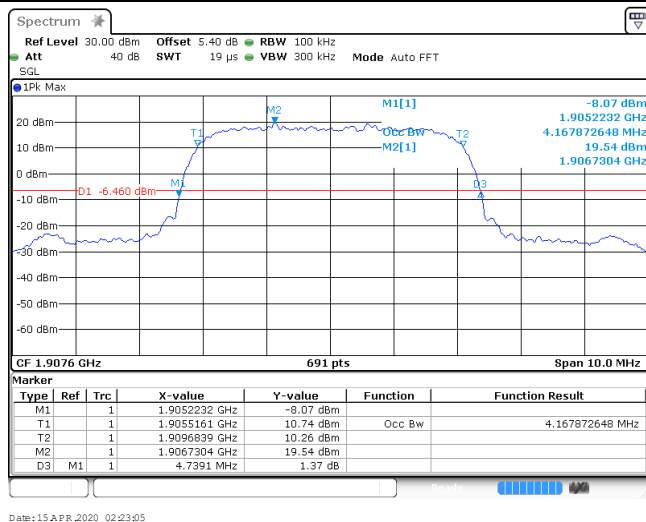
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Band II_9262



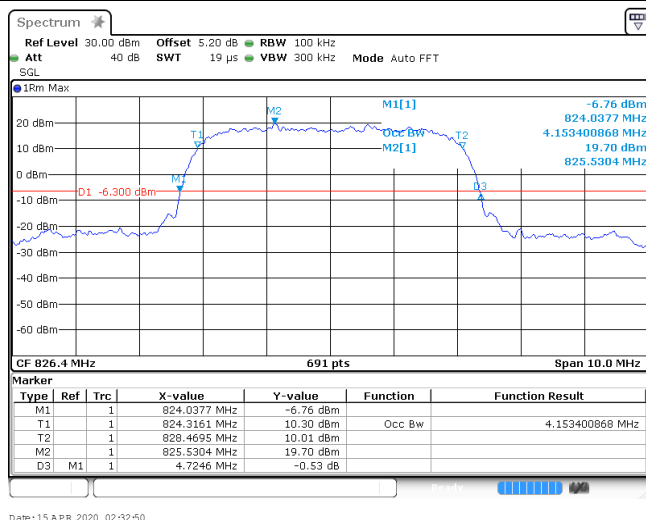


Band II_9400

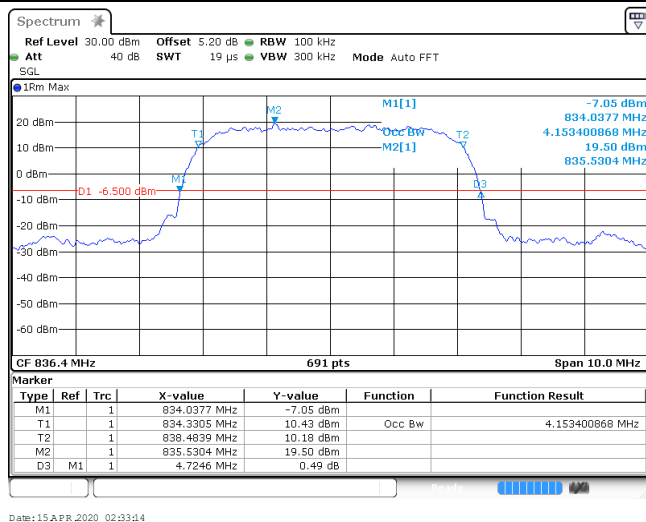


Band II_9538



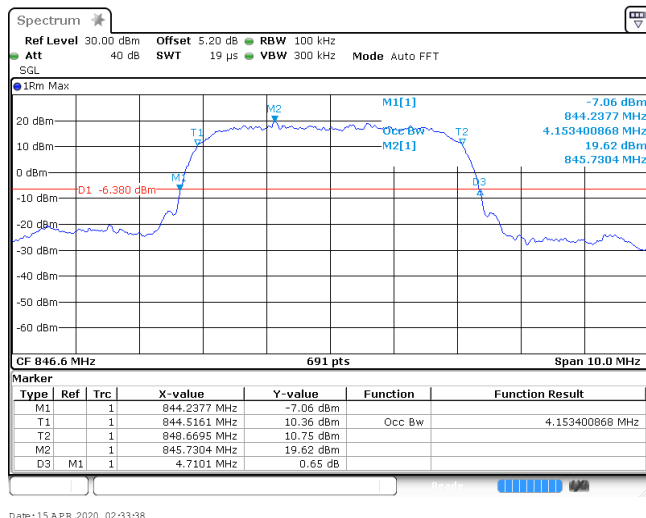


Band V_4132



Band V_4182





Band V_4233

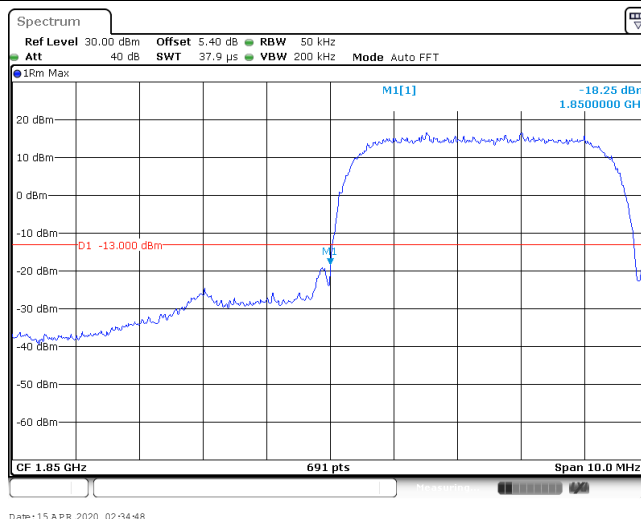


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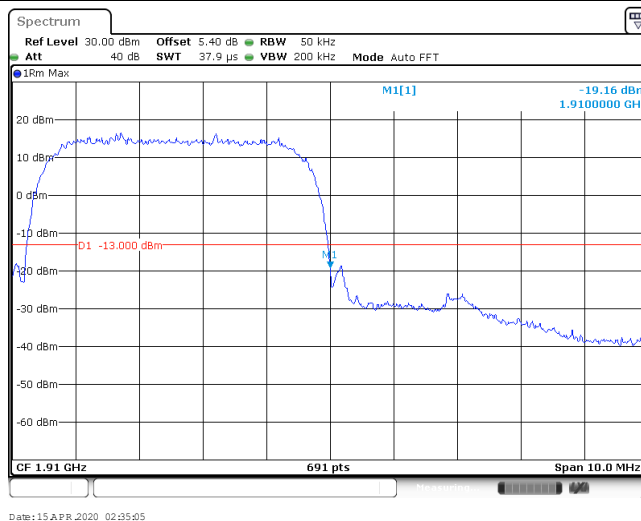
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5. Band Edge Compliance

5.1. Test Plots

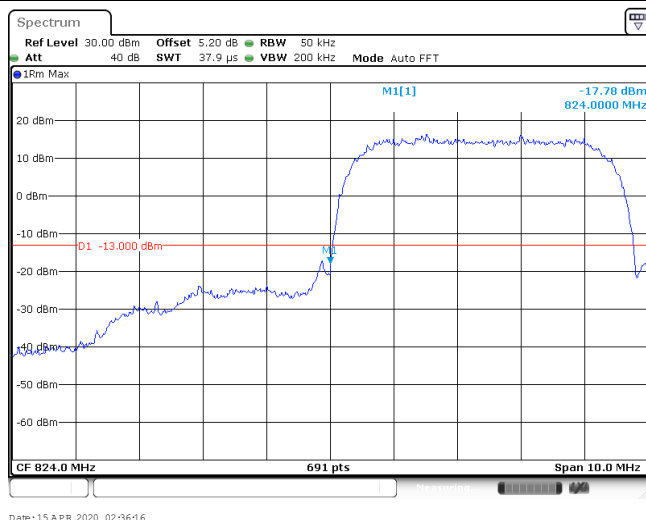


Band II_9262

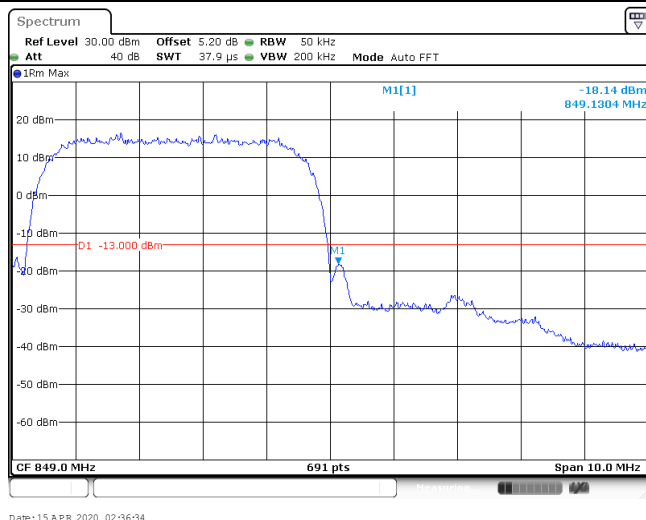


Band II_9538





Band V_4132



Band V_4233



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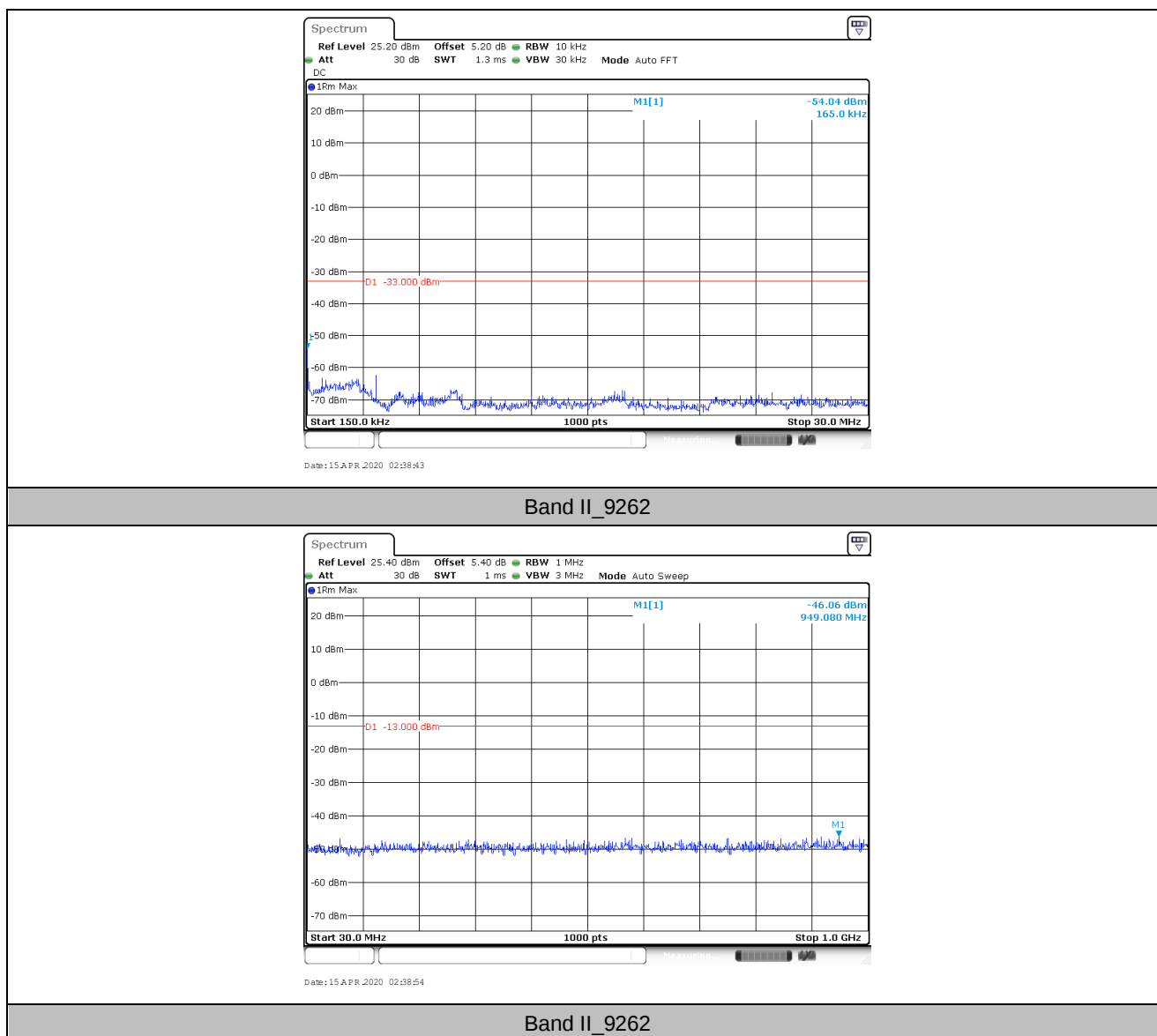


6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " 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

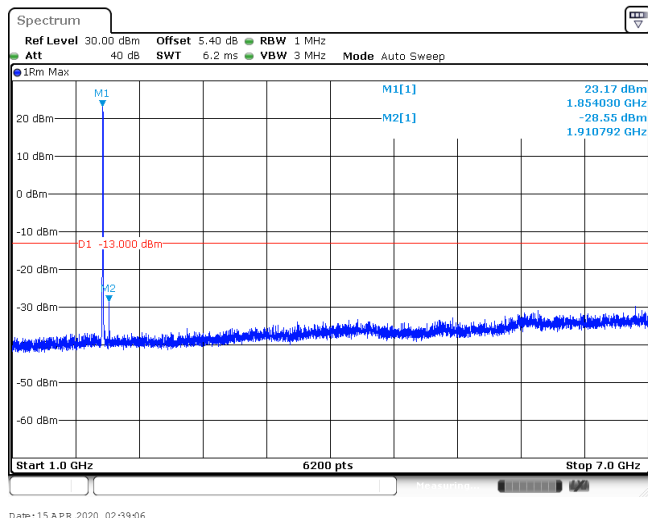


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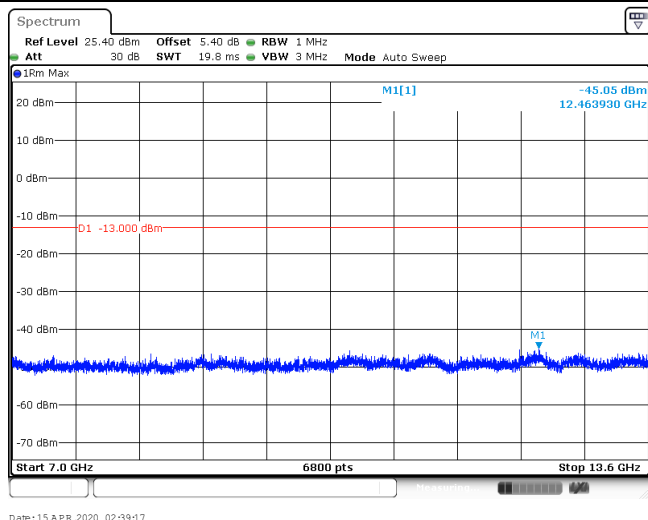
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Band II_9262

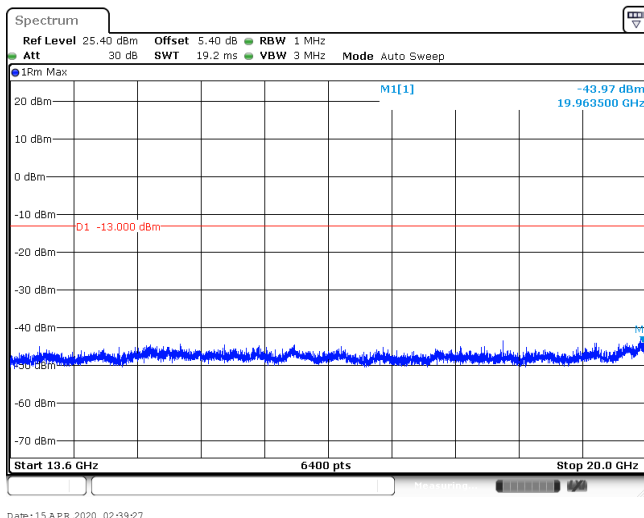


Band II_9262

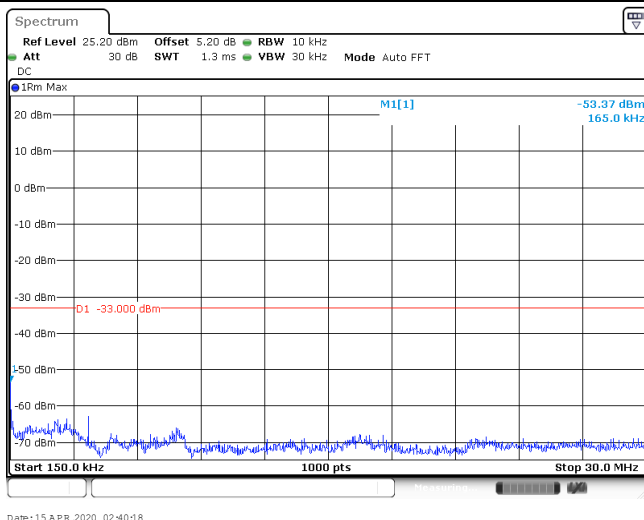


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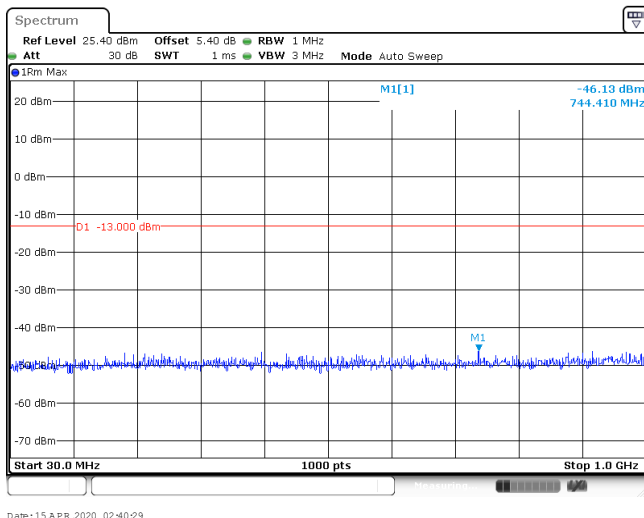


Band II_9262

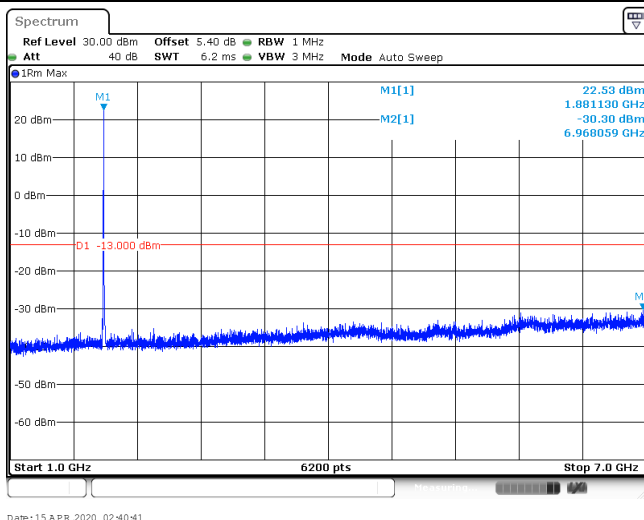


Band II_9400





Band II_9400

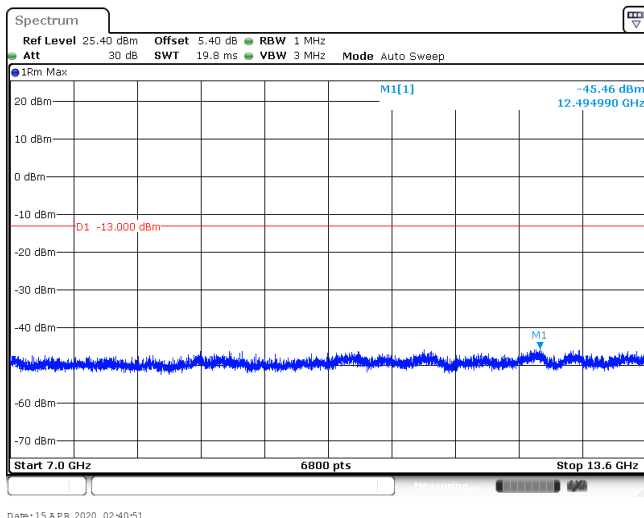


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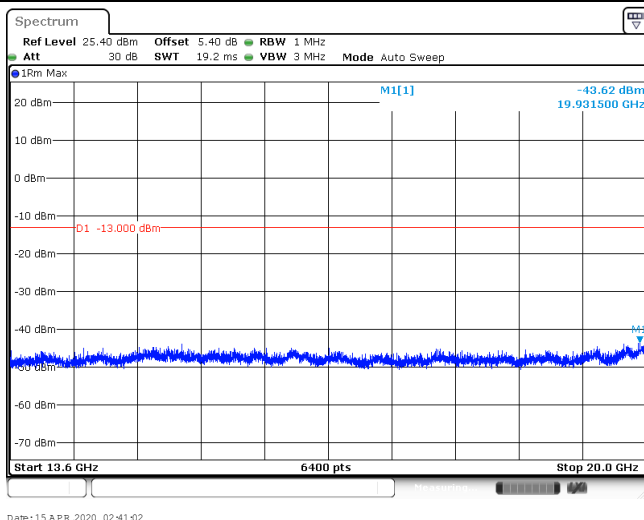


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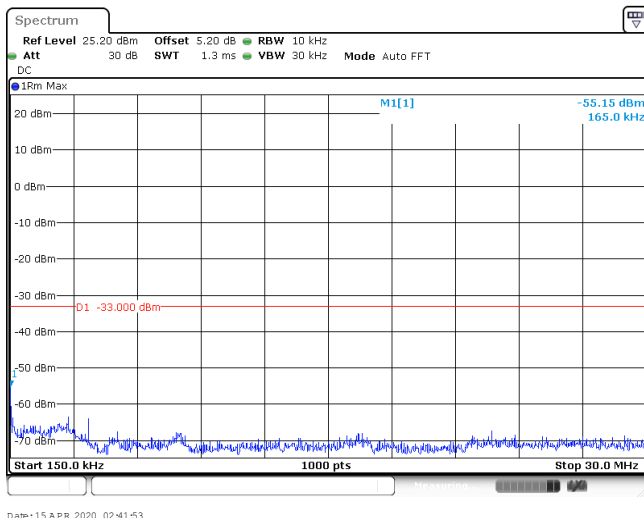


Band II_9400



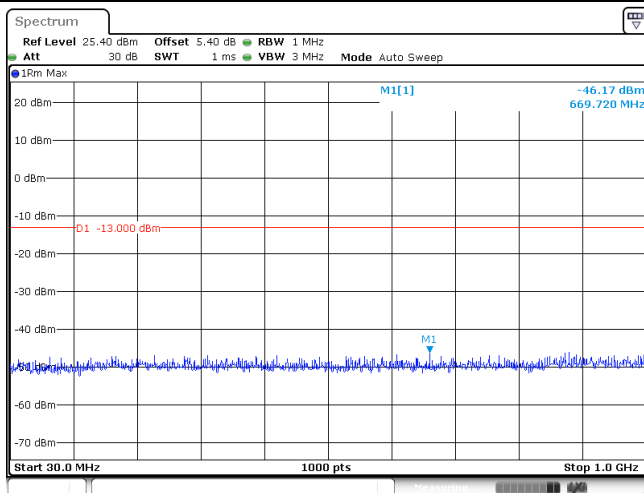
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Date: 15 APR. 2020 02:41:53

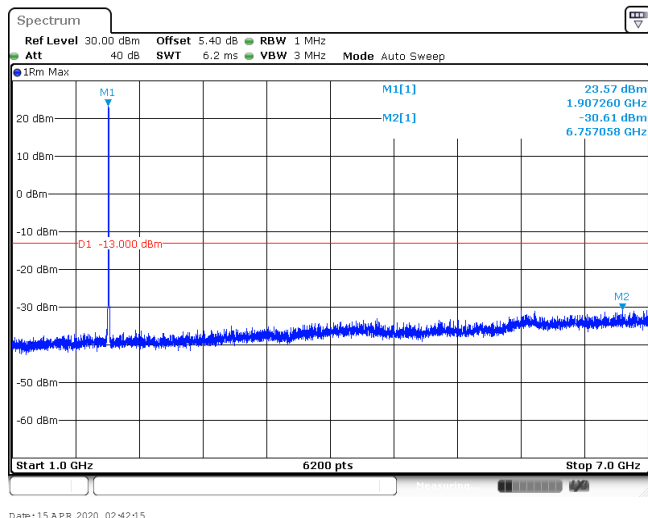
Band II_9538



Date: 15 APR. 2020 02:42:03

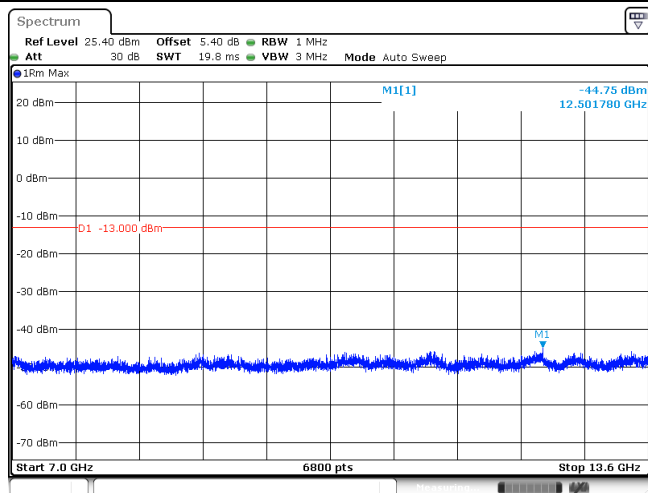
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Band II_9538



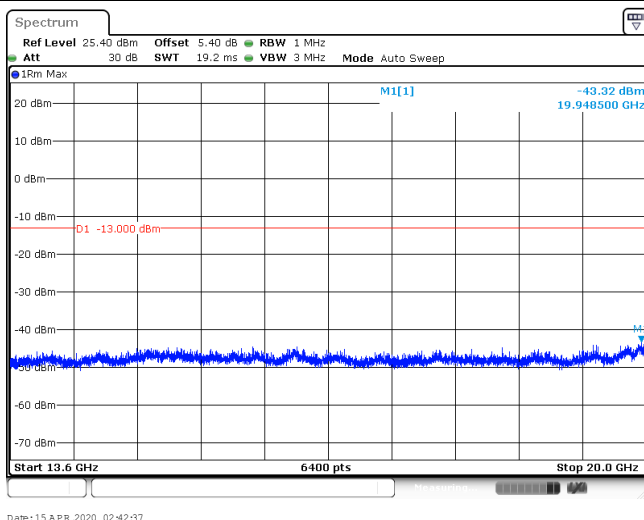
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Band II_9538



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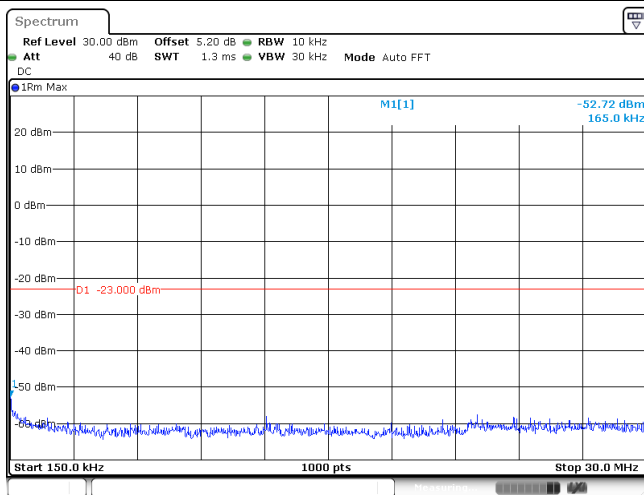
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Date: 15 APR 2020 02:42:37

Band II_9538

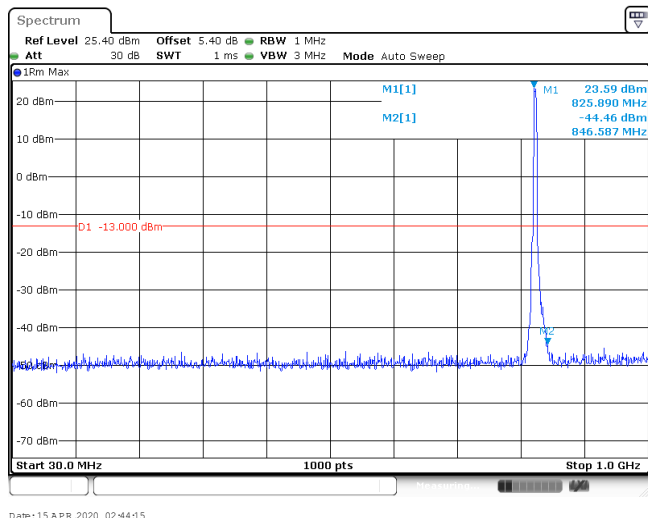
Band V_4132



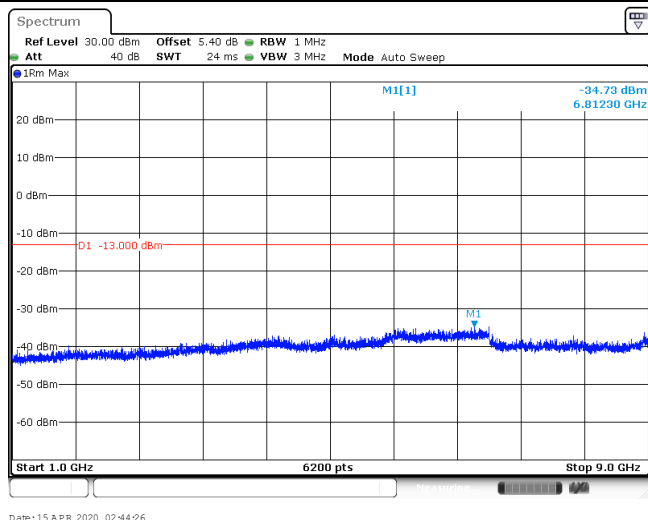
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Band V_4132





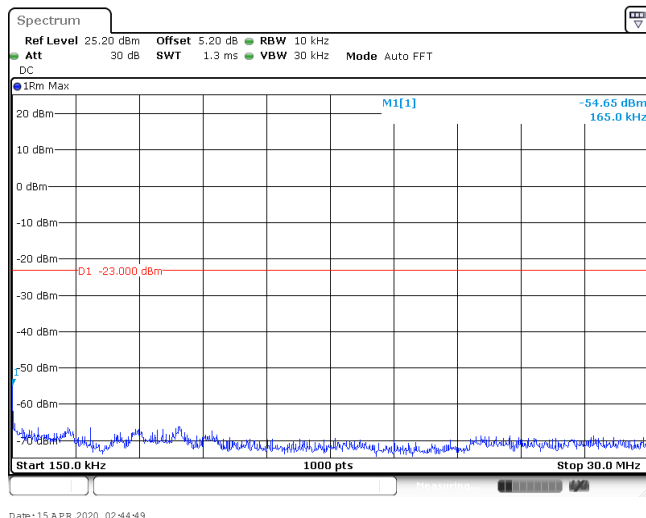
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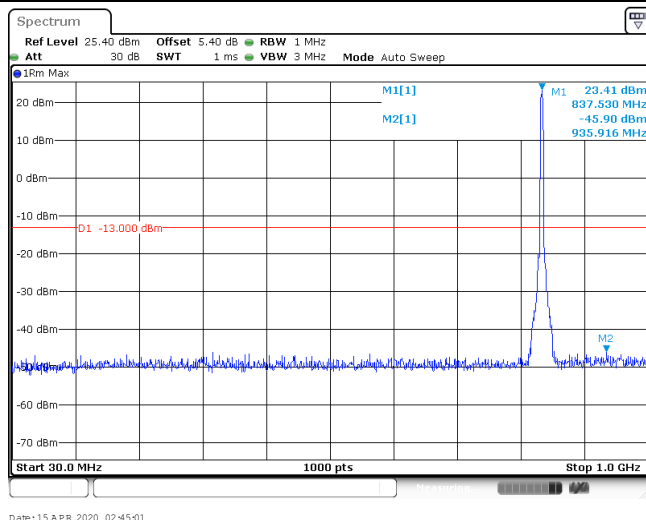
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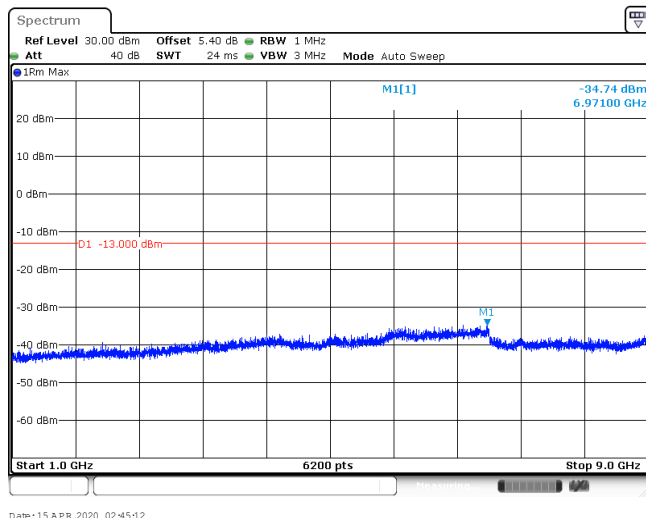
Band V_4182



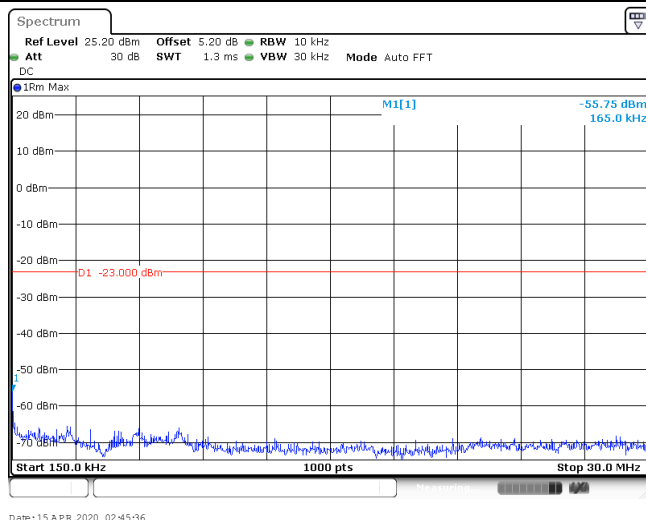
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Band V_4182

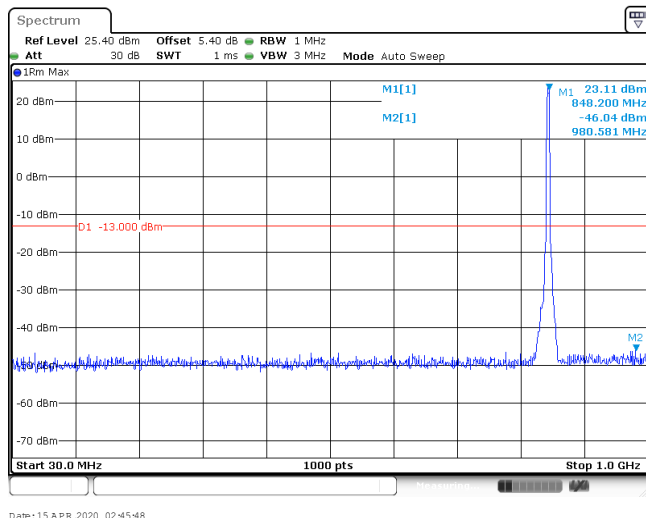


Band V_4233

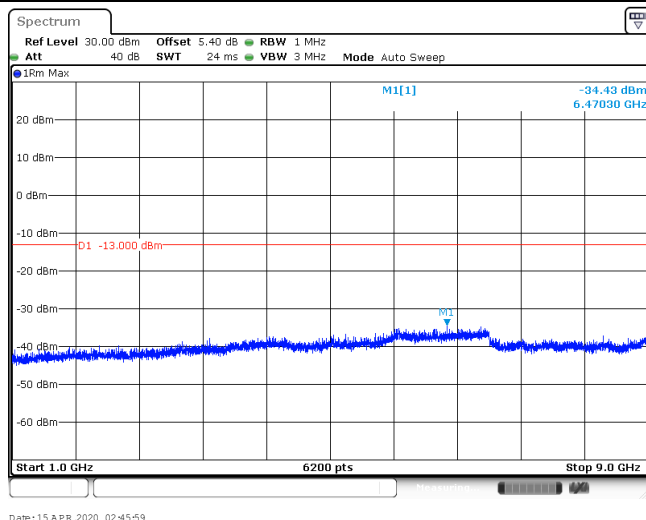


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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA_II_TM1

7.1.1. Test Channel = 9538

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.4537	-70.94	-63.95	-13.00	50.95	174	203	Horizontal
2	497.0784	-69.78	-64.66	-13.00	51.66	158	329	Horizontal
3	2695.1390	-67.91	-35.12	-13.00	22.12	196	212	Horizontal
4	3813.5271	-45.18	-53.42	-13.00	40.42	175	283	Horizontal
5	5725.5909	-40.02	-46.02	-13.00	33.02	188	358	Horizontal
6	16363.9455	-55.94	-42.14	-13.00	29.14	162	358	Horizontal





7.2. Test Band = WCDMA_II_TM1

7.2.1. Test Channel = 9538

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.9673	-63.59	-65.03	-13.00	52.03	271	360	Vertical
2	512.8901	-70.64	-65.88	-13.00	52.88	245	360	Vertical
3	2699.5399	-68.09	-36.43	-13.00	23.43	285	39	Vertical
4	3813.0271	-41.44	-50.27	-13.00	37.27	263	208	Vertical
5	5720.0907	-44.82	-51.49	-13.00	38.49	241	290	Vertical
6	17999.5000	-56.27	-38.40	-13.00	25.40	259	360	Vertical





7.3. Test Band = WCDMA_II_TM1

7.3.1. Test Channel = 9262

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.4837	-71.29	-64.35	-13.00	51.35	187	141	Horizontal
2	606.4028	-71.64	-63.97	-13.00	50.97	165	317	Horizontal
3	2694.7389	-68.05	-35.27	-13.00	22.27	194	292	Horizontal
4	3706.5236	-48.38	-56.93	-13.00	43.93	178	317	Horizontal
5	5554.5852	-50.40	-56.54	-13.00	43.54	199	348	Horizontal
6	16398.9466	-56.81	-42.38	-13.00	29.38	178	317	Horizontal





7.4. Test Band = WCDMA_II_TM1

7.4.1. Test Channel = 9262

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.8375	-65.94	-67.17	-13.00	54.17	241	352	Vertical
2	111.2416	-71.08	-64.78	-13.00	51.78	285	352	Vertical
3	2710.3421	-68.07	-36.55	-13.00	23.55	265	261	Vertical
4	3706.5236	-43.70	-53.04	-13.00	40.04	287	251	Vertical
5	14685.8895	-58.62	-46.54	-13.00	33.54	241	208	Vertical
6	17995.4999	-56.32	-38.55	-13.00	25.55	226	208	Vertical





7.5. Test Band = WCDMA_II_TM1

7.5.1. Test Channel = 9400

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.7447	-71.13	-64.12	-13.00	51.12	174	261	Horizontal
2	579.1930	-70.31	-63.19	-13.00	50.19	158	165	Horizontal
3	2699.5399	-68.16	-35.24	-13.00	22.24	162	199	Horizontal
4	3758.5253	-44.88	-53.28	-13.00	40.28	178	329	Horizontal
5	5642.5881	-44.71	-50.74	-13.00	37.74	196	329	Horizontal
6	16384.9462	-57.03	-42.85	-13.00	29.85	185	360	Horizontal



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7.6. Test Band = WCDMA_II_TM1

7.6.1. Test Channel = 9400

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.8703	-63.88	-65.33	-13.00	52.33	241	191	Vertical
2	620.4200	-71.69	-64.12	-13.00	51.12	258	290	Vertical
3	2693.1386	-68.10	-36.56	-13.00	23.56	271	305	Vertical
4	3761.5254	-39.98	-49.03	-13.00	36.03	263	223	Vertical
5	5642.0881	-49.60	-56.11	-13.00	43.11	288	290	Vertical
6	14482.8828	-59.08	-46.71	-13.00	33.71	274	122	Vertical
7	17996.4999	-56.27	-38.48	-13.00	25.48	269	360	Vertical



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7.7. Test Band = WCDMA_V_TM1

7.7.1. Test Channel = 4233

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.5436	-70.50	-63.66	-13.00	50.66	174	210	Horizontal
2	513.3752	-71.15	-65.59	-13.00	52.59	185	243	Horizontal
3	1694.9390	-59.21	-55.61	-13.00	42.61	196	61	Horizontal
4	2465.8932	-33.02	-22.36	-13.00	9.36	175	0	Horizontal
5	16337.4446	-57.36	-44.04	-13.00	31.04	185	210	Horizontal
6	17997.9999	-56.23	-43.14	-13.00	30.14	198	243	Horizontal





7.8. Test Band = WCDMA_V_TM1

7.8.1. Test Channel = 4233

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.2555	-65.33	-66.68	-13.00	53.68	241	68	Vertical
2	110.7080	-70.74	-64.39	-13.00	51.39	175	166	Vertical
3	1694.9390	-61.94	-57.11	-13.00	44.11	185	154	Vertical
4	2464.6929	-31.07	-21.71	-13.00	8.71	247	2	Vertical
5	14455.8819	-59.04	-46.89	-13.00	33.89	263	299	Vertical
6	17999.5000	-56.59	-38.72	-13.00	25.72	244	337	Vertical





7.9. Test Band = WCDMA_V_TM1

7.9.1. Test Channel = 4132

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.1741	-71.42	-64.55	-13.00	51.55	241	69	Horizontal
2	482.3336	-70.61	-66.17	-13.00	53.17	178	106	Horizontal
3	1654.1308	-59.33	-55.33	-13.00	42.33	196	194	Horizontal
4	2463.8928	-30.95	-20.33	-13.00	7.33	184	45	Horizontal
5	9345.2115	-56.89	-51.38	-13.00	38.38	175	276	Horizontal
6	16397.4466	-57.05	-42.65	-13.00	29.65	148	69	Horizontal





7.10. Test Band = WCDMA_V_TM1

7.10.1. Test Channel = 4132

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.7890	-65.94	-67.18	-13.00	54.18	174	276	Vertical
2	114.5397	-69.60	-63.59	-13.00	50.59	185	67	Vertical
3	1651.3303	-63.20	-58.52	-13.00	45.52	165	159	Vertical
4	2463.8928	-31.18	-21.83	-13.00	8.83	188	33	Vertical
5	14682.8894	-58.34	-46.28	-13.00	33.28	194	231	Vertical
6	17999.5000	-56.35	-38.48	-13.00	25.48	177	35	Vertical



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7.11. Test Band = WCDMA_V_TM1

7.11.1. Test Channel = 4182

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.2226	-70.73	-63.85	-13.00	50.85	199	133	Horizontal
2	389.5000	-71.21	-68.01	-13.00	55.01	175	340	Horizontal
3	1674.9350	-59.31	-55.51	-13.00	42.51	188	212	Horizontal
4	2465.4931	-37.68	-27.02	-13.00	14.02	179	20	Horizontal
5	9320.2107	-57.38	-51.63	-13.00	38.63	174	308	Horizontal
6	16385.9462	-56.56	-42.36	-13.00	29.36	196	36	Horizontal





7.12. Test Band = WCDMA_V_TM1

7.12.1. Test Channel = 4182

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.2740	-64.34	-65.55	-13.00	52.55	271	310	Vertical
2	108.8164	-70.79	-64.66	-13.00	51.66	248	147	Vertical
3	1674.5349	-63.51	-58.75	-13.00	45.75	222	139	Vertical
4	2457.0914	-39.20	-29.89	-13.00	16.89	263	350	Vertical
5	14491.3830	-58.92	-46.48	-13.00	33.48	284	115	Vertical
6	17997.4999	-56.05	-38.23	-13.00	25.23	271	180	Vertical

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 (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	11.69	0.006309	±2.5	PASS
Band II	9262	VN	TN	11.31	0.006105	±2.5	PASS
Band II	9262	VH	TN	11.49	0.006205	±2.5	PASS
Band II	9400	VL	TN	12.16	0.006468	±2.5	PASS
Band II	9400	VN	TN	12.67	0.006742	±2.5	PASS
Band II	9400	VH	TN	11.86	0.006308	±2.5	PASS
Band II	9538	VL	TN	8.13	0.004259	±2.5	PASS
Band II	9538	VN	TN	8.95	0.004691	±2.5	PASS
Band II	9538	VH	TN	9.39	0.004923	±2.5	PASS
Band V	4132	VL	TN	-0.69	-0.000831	±2.5	PASS
Band V	4132	VN	TN	-1.58	-0.001913	±2.5	PASS
Band V	4132	VH	TN	-0.21	-0.000260	±2.5	PASS
Band V	4182	VL	TN	-0.11	-0.000128	±2.5	PASS
Band V	4182	VN	TN	-0.34	-0.000402	±2.5	PASS
Band V	4182	VH	TN	-0.21	-0.000248	±2.5	PASS
Band V	4233	VL	TN	-0.36	-0.000431	±2.5	PASS
Band V	4233	VN	TN	0.05	0.000059	±2.5	PASS
Band V	4233	VH	TN	-1.04	-0.001233	±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	9.78	0.005282	±2.5	PASS
Band II	9262	VN	-20	11.94	0.006444	±2.5	PASS
Band II	9262	VN	-10	11.77	0.006356	±2.5	PASS
Band II	9262	VN	0	12.59	0.006796	±2.5	PASS
Band II	9262	VN	10	9.27	0.005004	±2.5	PASS
Band II	9262	VN	20	11.71	0.006321	±2.5	PASS
Band II	9262	VN	30	11.30	0.006101	±2.5	PASS
Band II	9262	VN	40	11.22	0.006058	±2.5	PASS
Band II	9262	VN	50	11.42	0.006166	±2.5	PASS
Band II	9400	VN	-30	11.54	0.006141	±2.5	PASS
Band II	9400	VN	-20	12.84	0.006829	±2.5	PASS
Band II	9400	VN	-10	11.89	0.006327	±2.5	PASS
Band II	9400	VN	0	11.17	0.005943	±2.5	PASS
Band II	9400	VN	10	11.06	0.005882	±2.5	PASS
Band II	9400	VN	20	13.04	0.006936	±2.5	PASS



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Band II	9400	VN	30	12.39	0.006589	±2.5	PASS
Band II	9400	VN	40	11.82	0.006289	±2.5	PASS
Band II	9400	VN	50	11.87	0.006316	±2.5	PASS
Band II	9538	VN	-30	9.93	0.005208	±2.5	PASS
Band II	9538	VN	-20	8.03	0.004207	±2.5	PASS
Band II	9538	VN	-10	10.59	0.005553	±2.5	PASS
Band II	9538	VN	0	9.58	0.005021	±2.5	PASS
Band II	9538	VN	10	9.51	0.004987	±2.5	PASS
Band II	9538	VN	20	10.01	0.005246	±2.5	PASS
Band II	9538	VN	30	9.03	0.004732	±2.5	PASS
Band II	9538	VN	40	9.52	0.004991	±2.5	PASS
Band II	9538	VN	50	9.58	0.005021	±2.5	PASS
Band V	4132	VN	-30	-0.06	-0.000078	±2.5	PASS
Band V	4132	VN	-20	-0.63	-0.000762	±2.5	PASS
Band V	4132	VN	-10	0.01	0.000009	±2.5	PASS
Band V	4132	VN	0	-0.21	-0.000251	±2.5	PASS
Band V	4132	VN	10	-1.04	-0.001255	±2.5	PASS
Band V	4132	VN	20	-0.71	-0.000857	±2.5	PASS
Band V	4132	VN	30	0.06	0.000069	±2.5	PASS
Band V	4132	VN	40	-0.19	-0.000234	±2.5	PASS
Band V	4132	VN	50	-0.11	-0.000138	±2.5	PASS
Band V	4182	VN	-30	0.84	0.001001	±2.5	PASS
Band V	4182	VN	-20	0.65	0.000778	±2.5	PASS
Band V	4182	VN	-10	-0.17	-0.000205	±2.5	PASS
Band V	4182	VN	0	0.45	0.000539	±2.5	PASS
Band V	4182	VN	10	-0.64	-0.000761	±2.5	PASS
Band V	4182	VN	20	-0.04	-0.000051	±2.5	PASS
Band V	4182	VN	30	-0.26	-0.000308	±2.5	PASS
Band V	4182	VN	40	-0.25	-0.000299	±2.5	PASS
Band V	4182	VN	50	0.27	0.000325	±2.5	PASS
Band V	4233	VN	-30	-0.73	-0.000862	±2.5	PASS
Band V	4233	VN	-20	-0.92	-0.001090	±2.5	PASS
Band V	4233	VN	-10	-1.09	-0.001284	±2.5	PASS
Band V	4233	VN	0	-0.53	-0.000625	±2.5	PASS
Band V	4233	VN	10	-0.73	-0.000862	±2.5	PASS
Band V	4233	VN	20	-0.74	-0.000870	±2.5	PASS
Band V	4233	VN	30	-0.33	-0.000389	±2.5	PASS
Band V	4233	VN	40	-0.74	-0.000879	±2.5	PASS
Band V	4233	VN	50	-1.04	-0.001225	±2.5	PASS

The End



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