

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	21.75	20.69	33.00	PASS
Band II	9400	21.82	20.76	33.00	PASS
Band II	9538	21.86	20.80	33.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.64	18.19	38.45	PASS
Band V	4182	23.71	18.26	38.45	PASS
Band V	4233	23.74	18.29	38.45	PASS

Remark:

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

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

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



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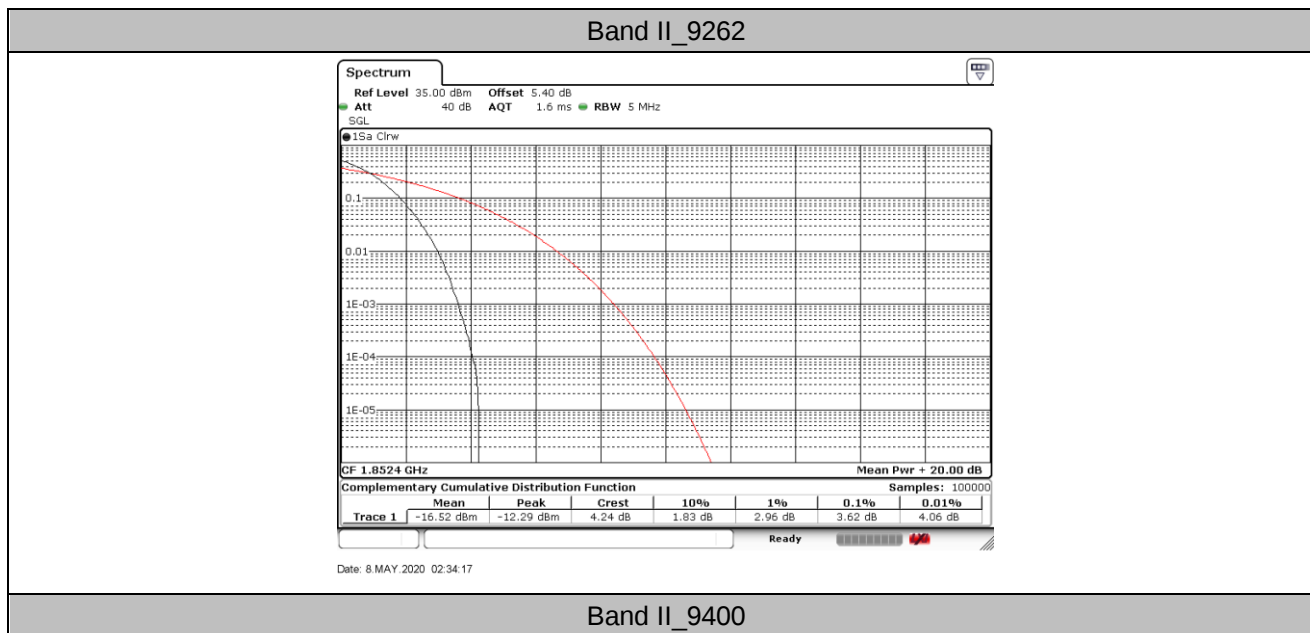


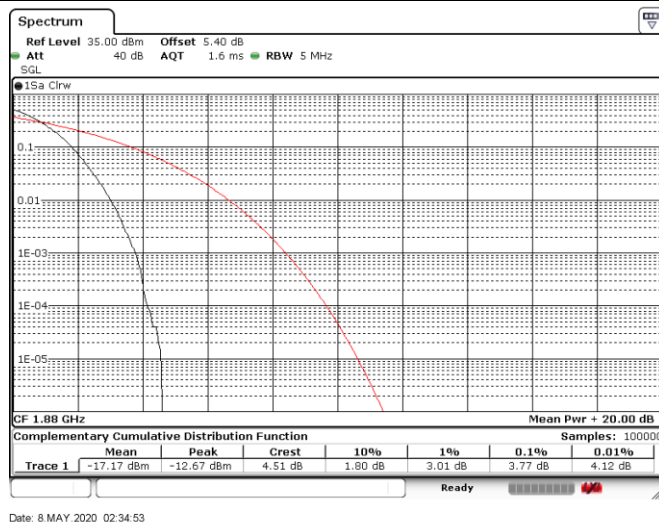
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

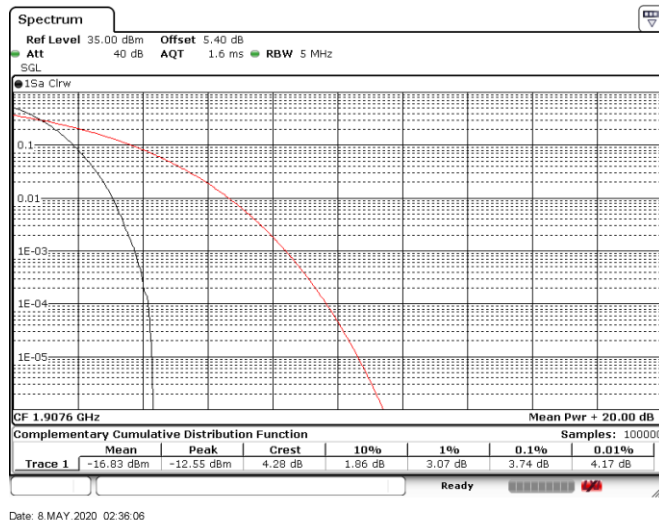
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.62	13	PASS
Band II	9400	3.77	13	PASS
Band II	9538	3.74	13	PASS
Band V	4132	3.74	13	PASS
Band V	4182	3.91	13	PASS
Band V	4233	3.80	13	PASS

2.2. Test Plots





Band II_9538

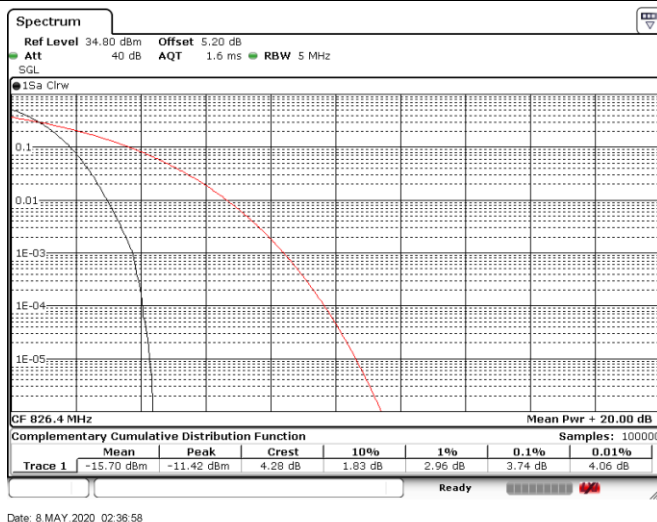


Band V_4132

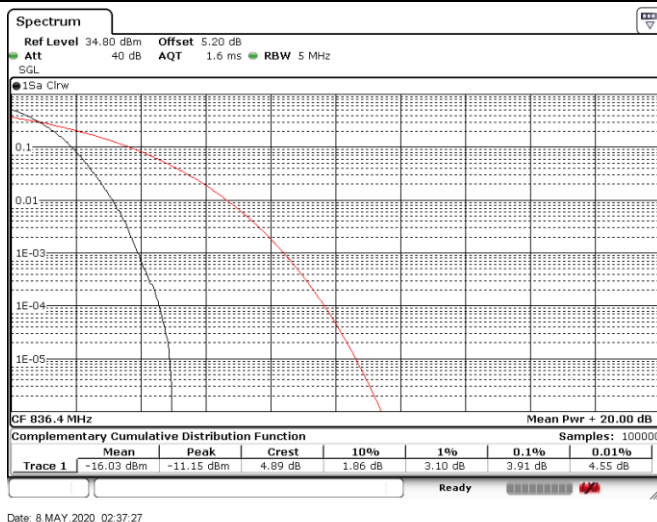


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Band V_4182

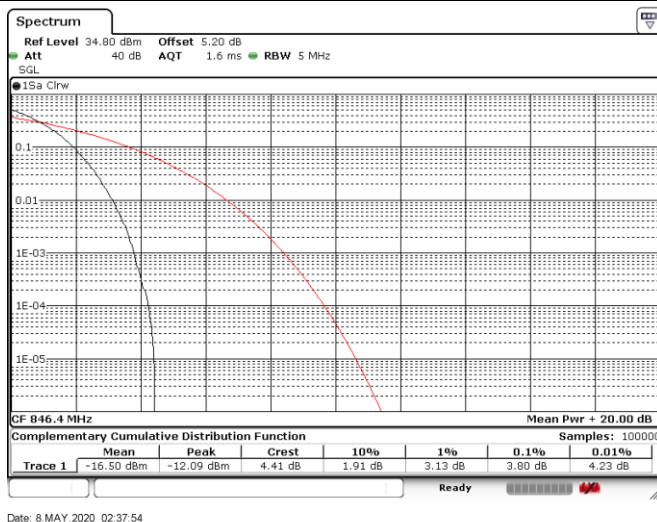


Band V_4233



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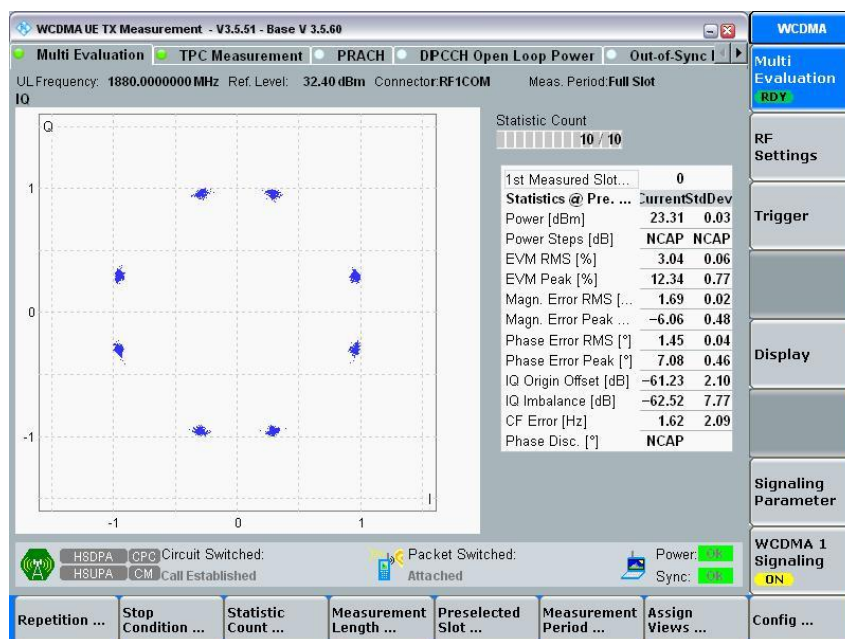
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH

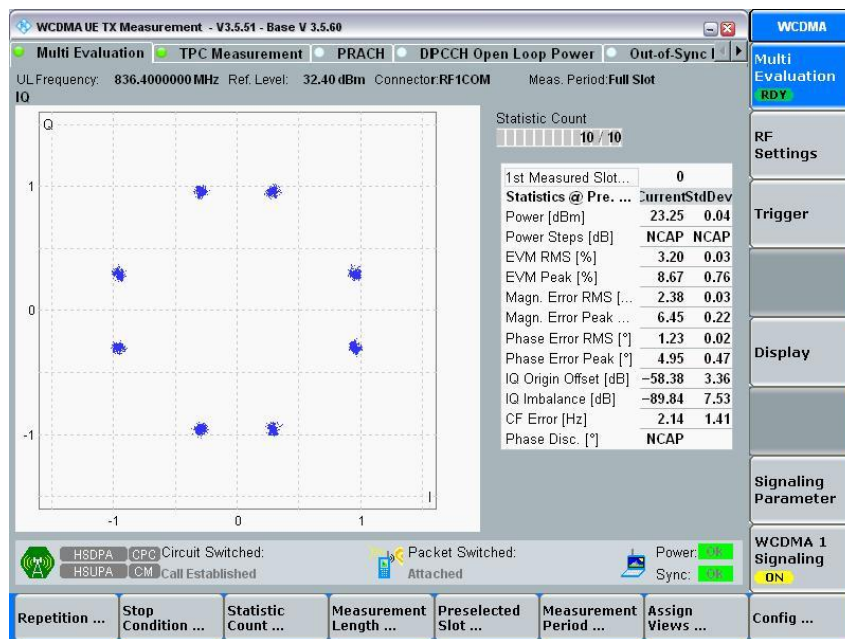


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3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



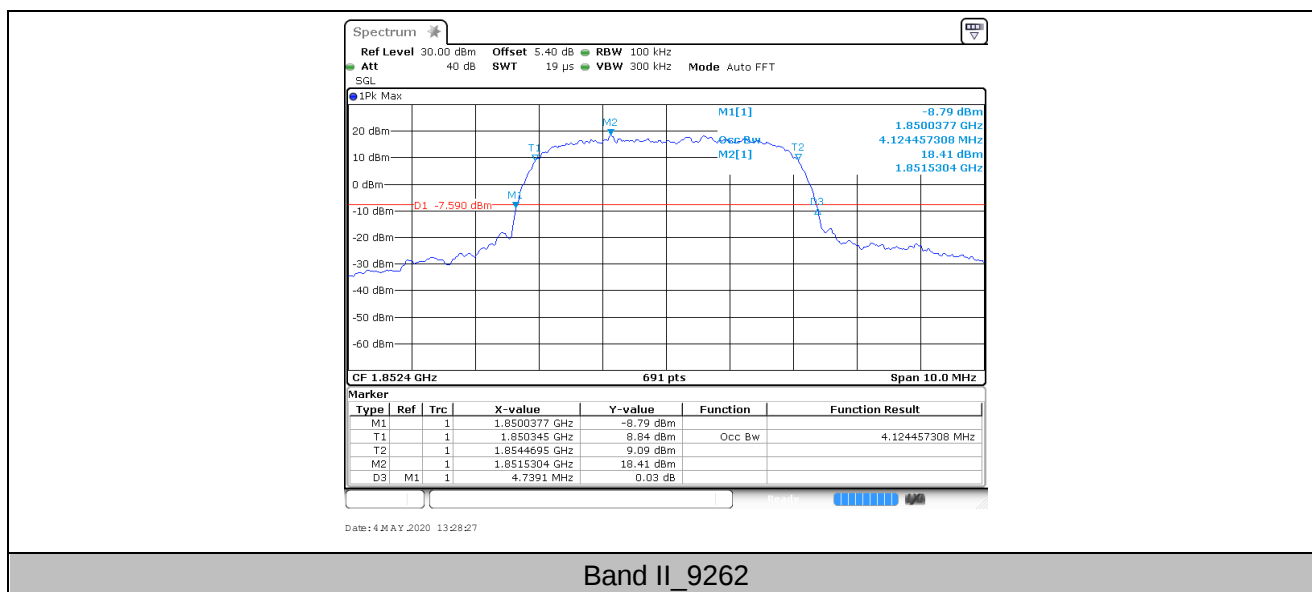


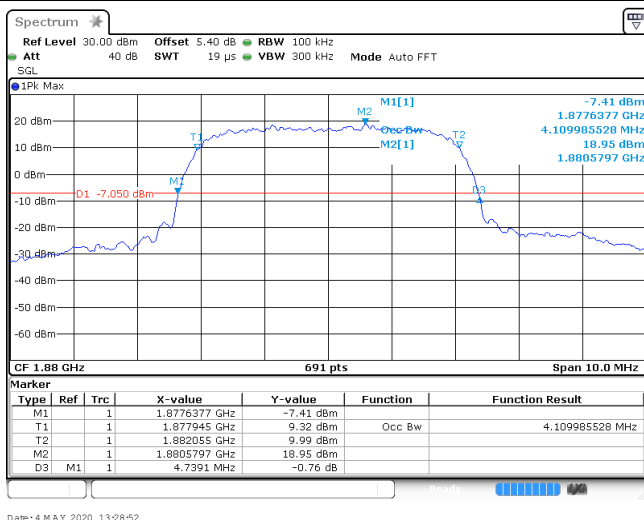
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

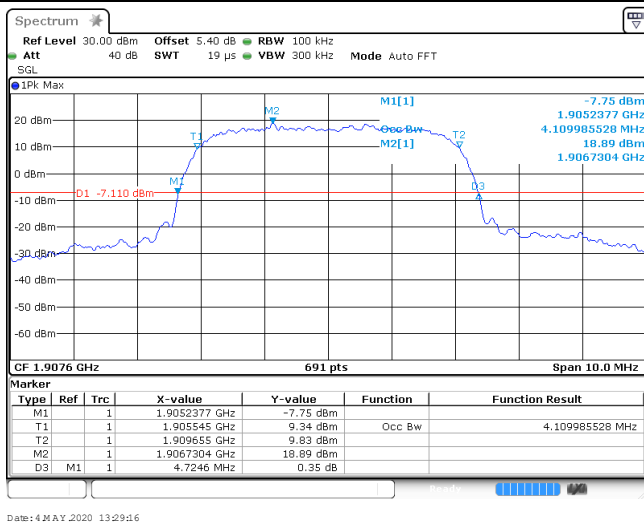
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4124.5	4739	---	PASS
Band II	9400	4110.0	4739	---	PASS
Band II	9538	4110.0	4725	---	PASS
Band V	4132	4124.5	4739	---	PASS
Band V	4182	4110.0	4739	---	PASS
Band V	4233	4110.0	4725	---	PASS

4.2. Test Plots



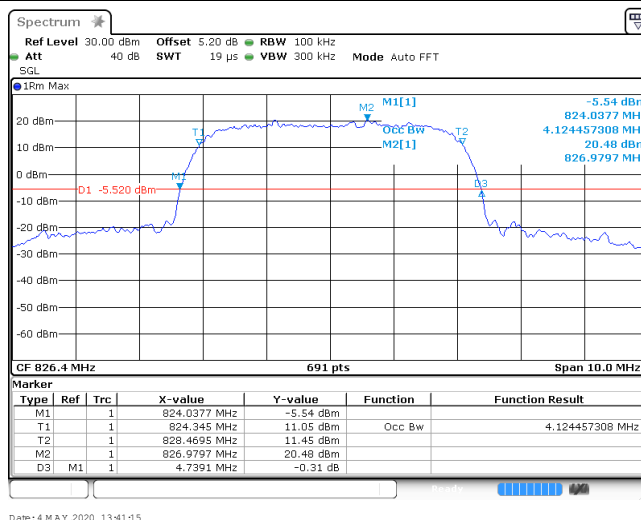


Band II_9400

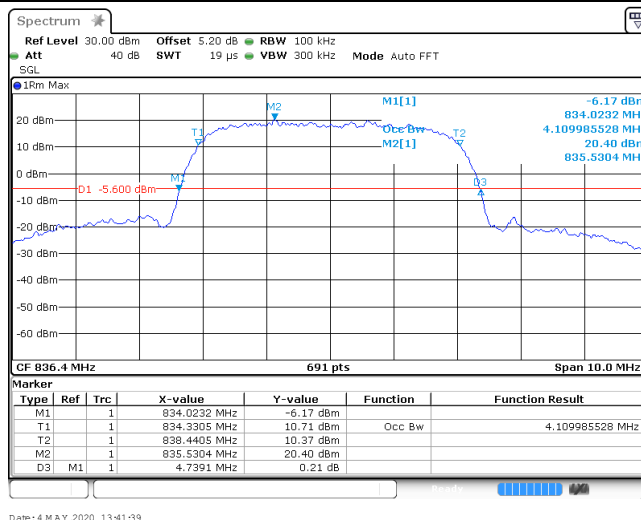


Band II_9538



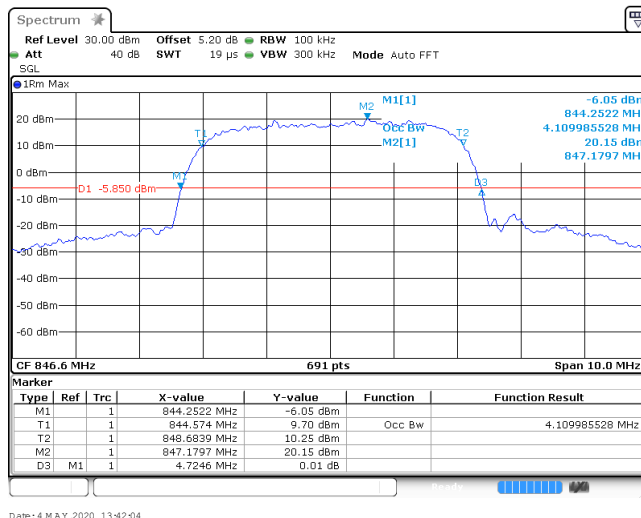


Band V_4132



Band V_4182





Band V_4233



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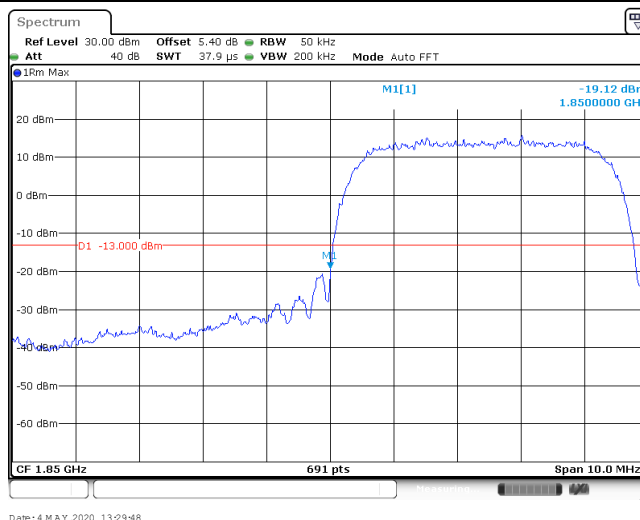
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5. Band Edge Compliance

5.1. Test Result

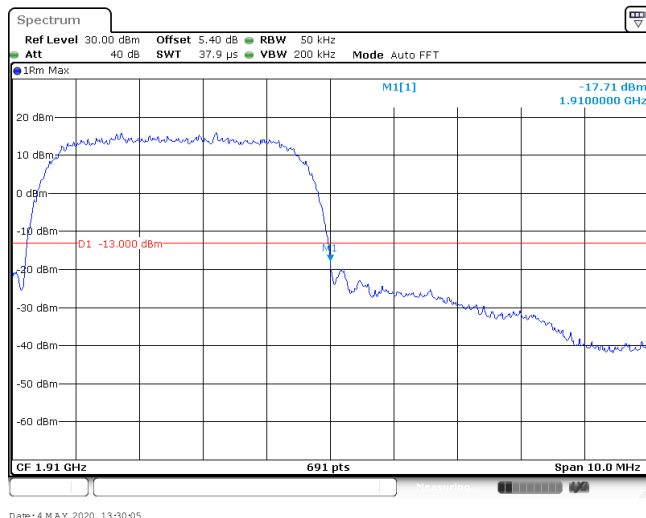
Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-19.12	-13	PASS
Band II	9538	-17.71	-13	PASS
Band V	4132	-14.86	-13	PASS
Band V	4233	-14.15	-13	PASS

5.2. Test Plots

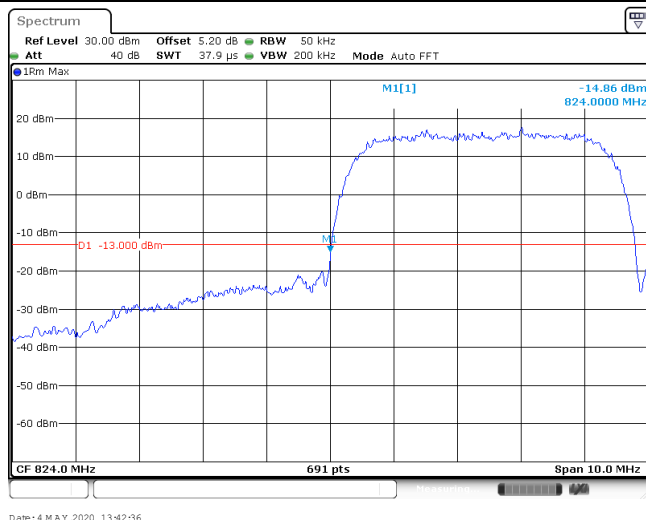


Band II_9262



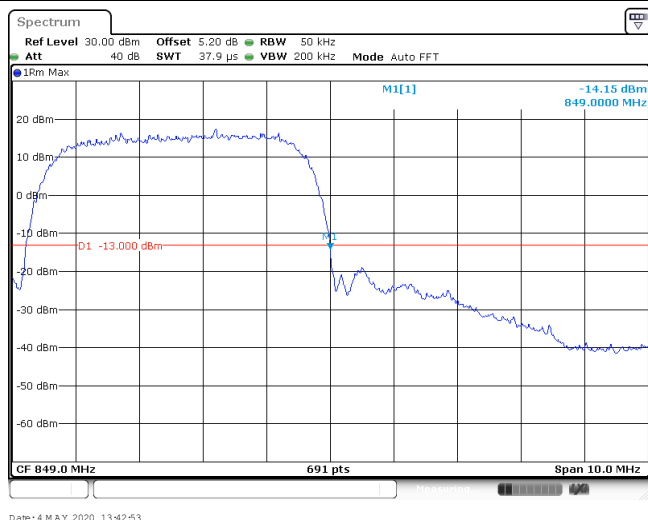


Band II_9538



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 Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	0.009~0.15	-66.24	-43	PASS
Band II	9262	0.15~30	-56.33	-33	PASS
Band II	9262	30~1000	-45.62	-13	PASS
Band II	9262	1000~7000	-30.45	-13	PASS
Band II	9262	7000~13600	-44.81	-13	PASS
Band II	9262	13600~20000	-42.83	-13	PASS
Band II	9400	0.009~0.15	-65.92	-43	PASS
Band II	9400	0.15~30	-55.12	-33	PASS
Band II	9400	30~1000	-45.69	-13	PASS
Band II	9400	1000~7000	-30.21	-13	PASS
Band II	9400	7000~13600	-44.75	-13	PASS
Band II	9400	13600~20000	-42.74	-13	PASS
Band II	9538	0.009~0.15	-65.82	-43	PASS
Band II	9538	0.15~30	-51.66	-33	PASS
Band II	9538	30~1000	-45.37	-13	PASS
Band II	9538	1000~7000	-30.35	-13	PASS
Band II	9538	7000~13600	-44.45	-13	PASS
Band II	9538	13600~20000	-42.95	-13	PASS
Band V	4132	0.009~0.15	-66.30	-33	PASS
Band V	4132	0.15~30	-55.07	-23	PASS
Band V	4132	30~1000	-44.07	-13	PASS
Band V	4132	1000~9000	-34.07	-13	PASS
Band V	4182	0.009~0.15	-66.27	-33	PASS
Band V	4182	0.15~30	-54.46	-23	PASS
Band V	4182	30~1000	-44.85	-13	PASS
Band V	4182	1000~9000	-34.25	-13	PASS
Band V	4233	0.009~0.15	-66.92	-33	PASS



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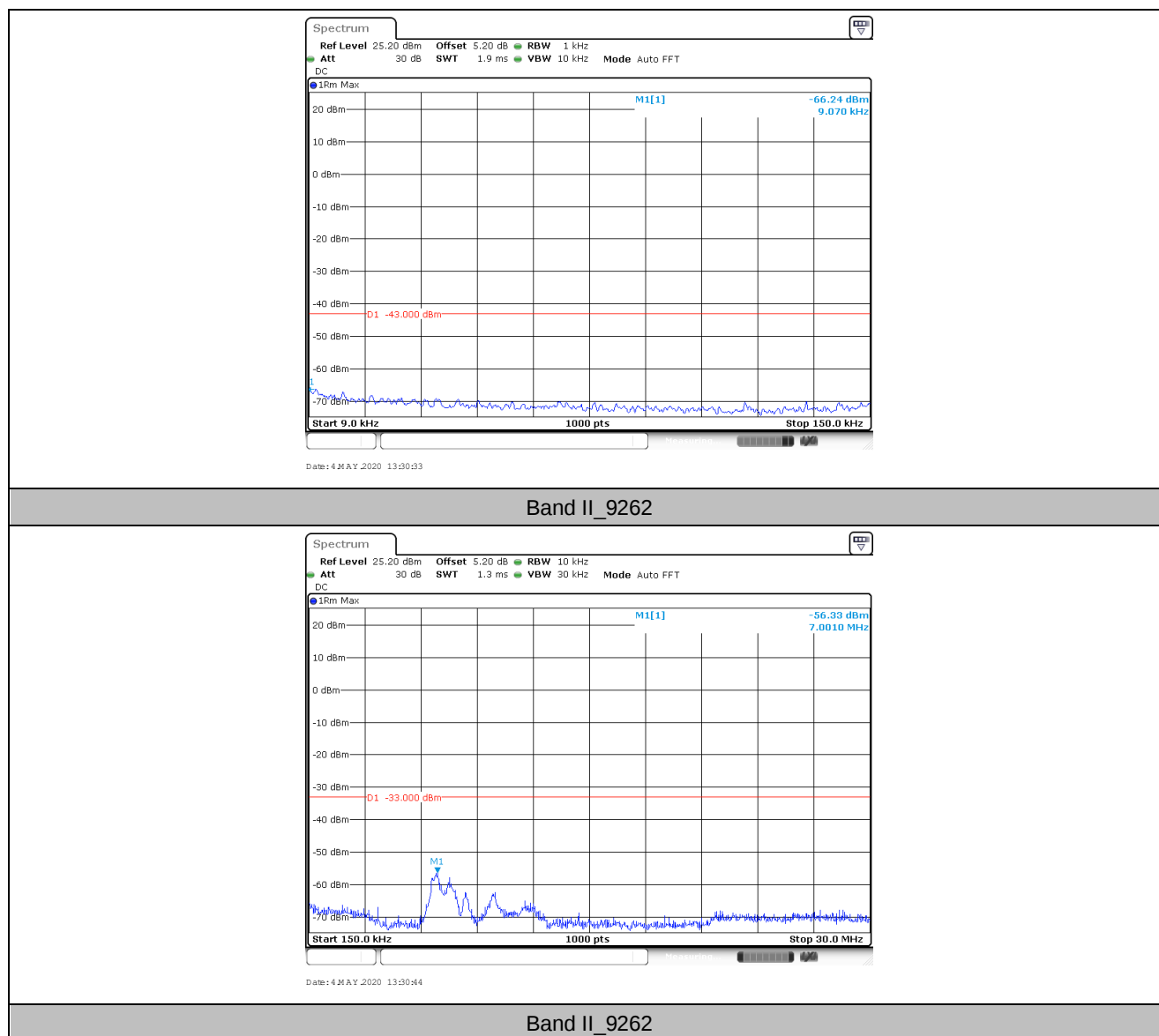
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Band V	4233	0.15~30	-47.78	-23	PASS
Band V	4233	30~1000	-45.04	-13	PASS
Band V	4233	1000~9000	-34.03	-13	PASS

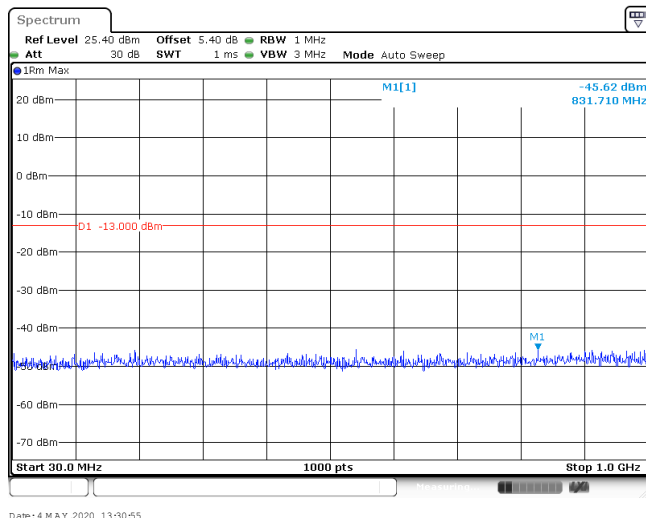
6.2. Test Plots



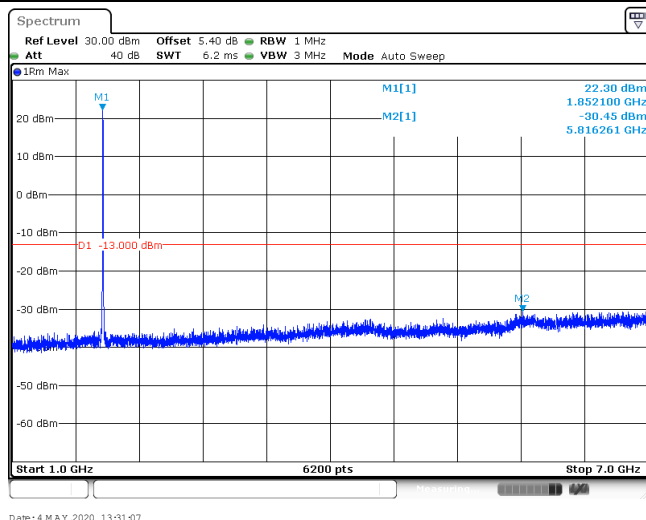
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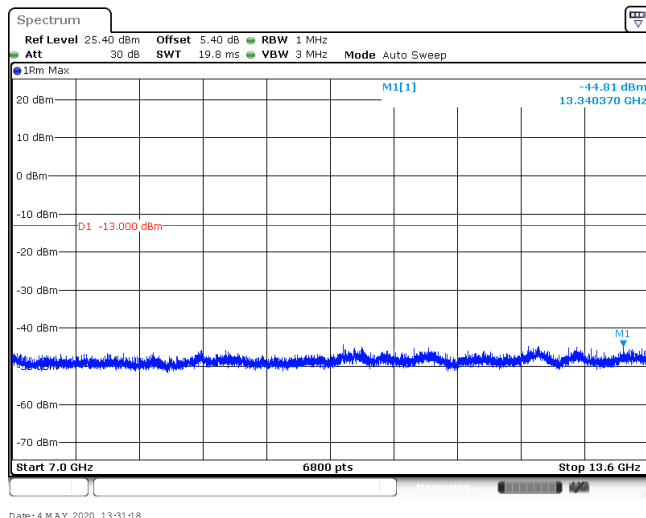


Band II_9262

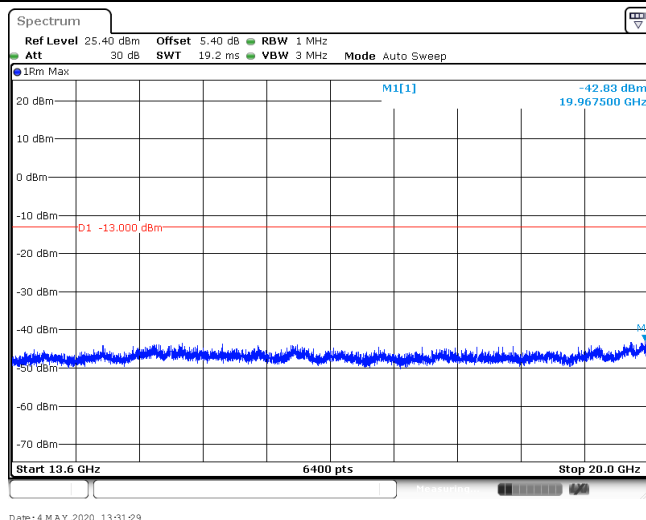


Band II_9262





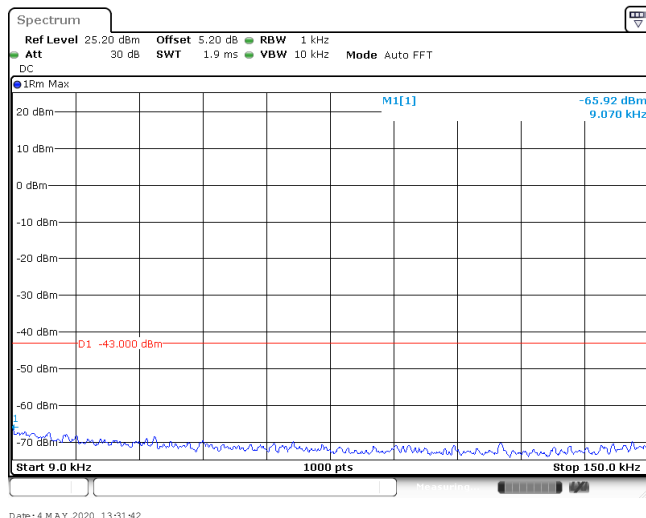
Band II_9262



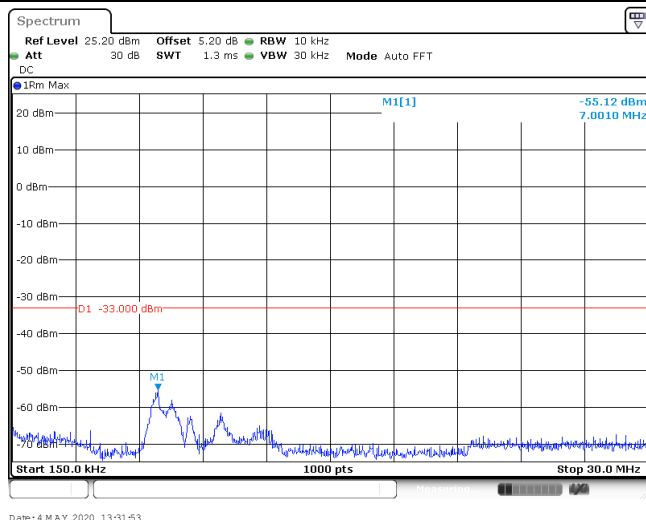
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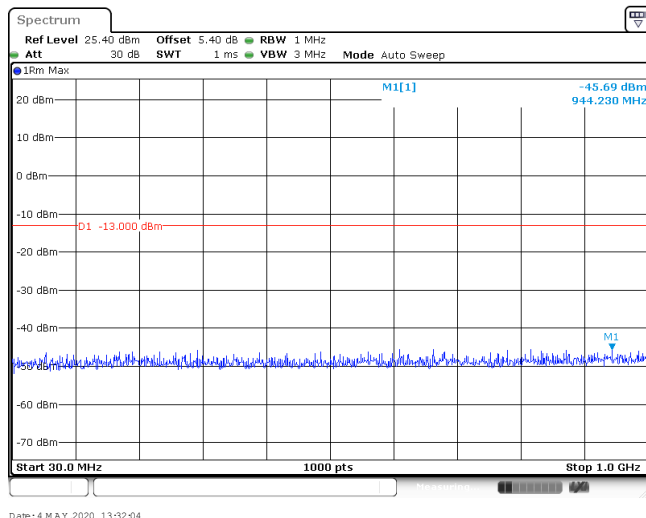


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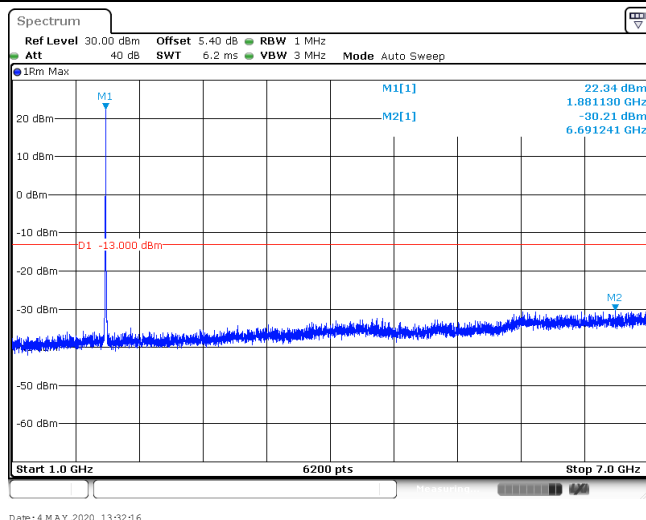


Band II_9400





Band II_9400

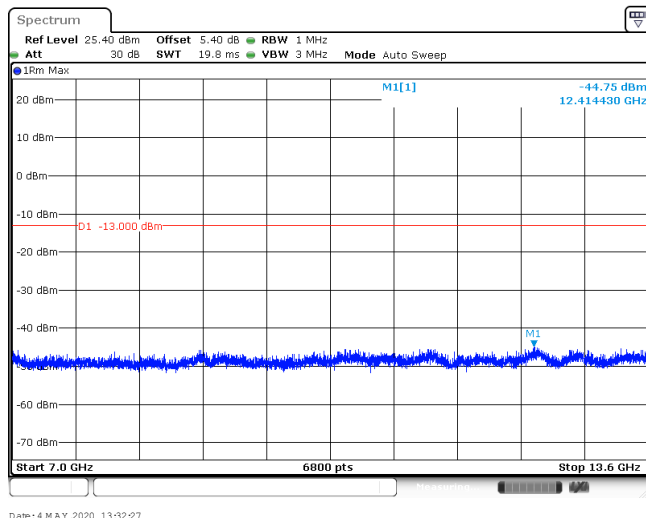


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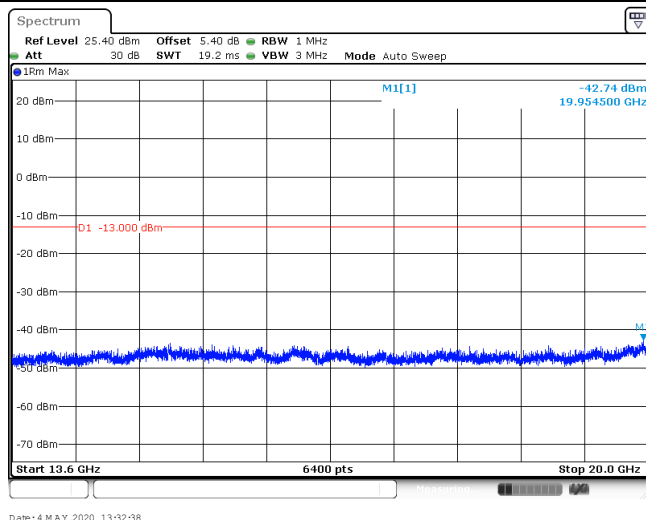


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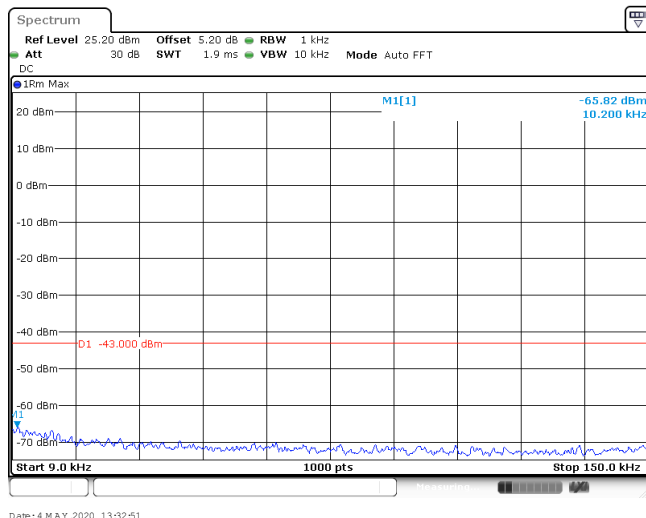


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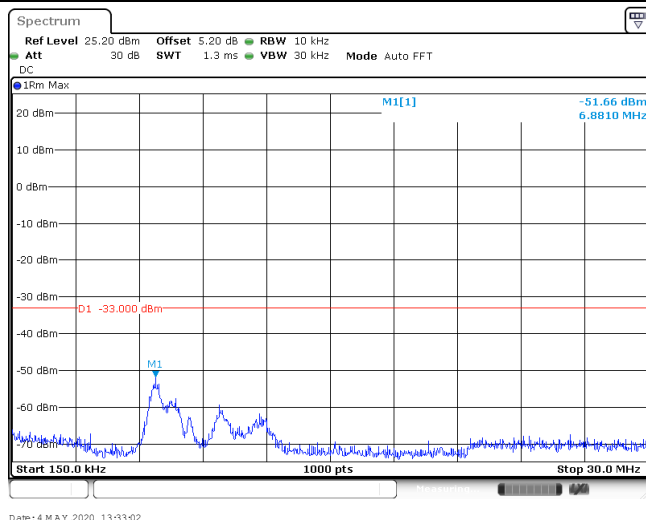


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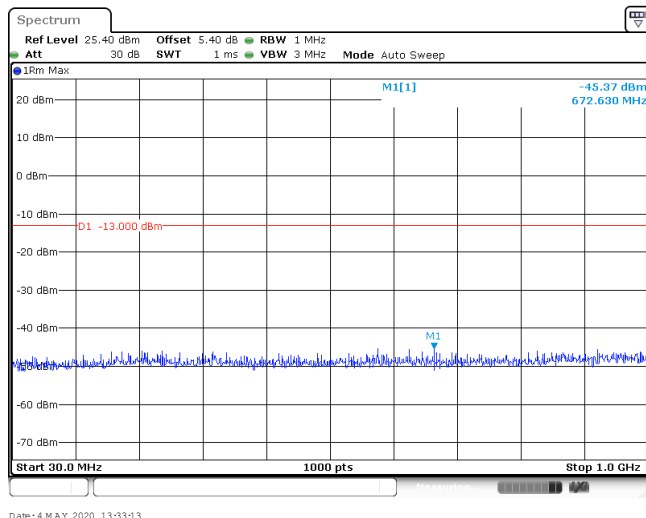


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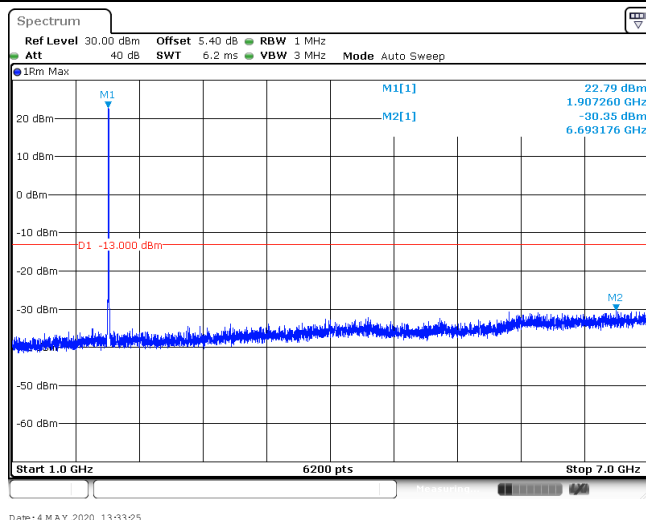


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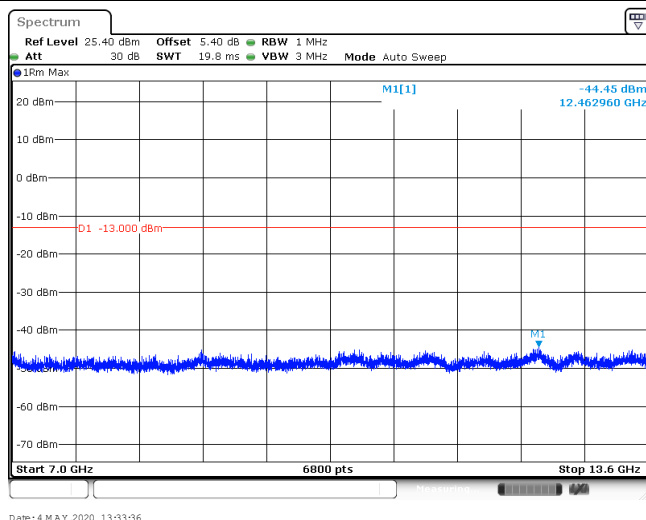
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Band II_9538

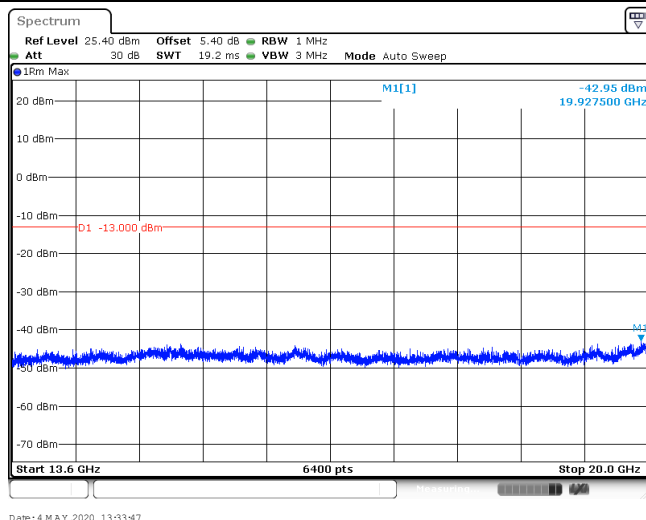


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Date: 4 MAY 2020 13:33:36

Band II_9538



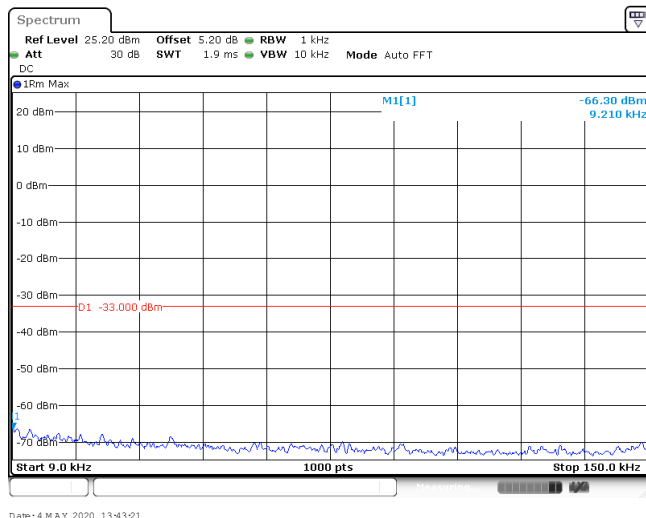
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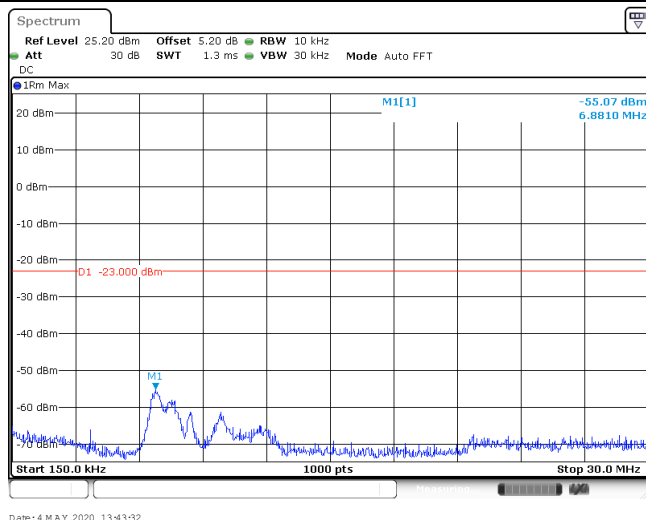


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Band V_4132



Band V_4132

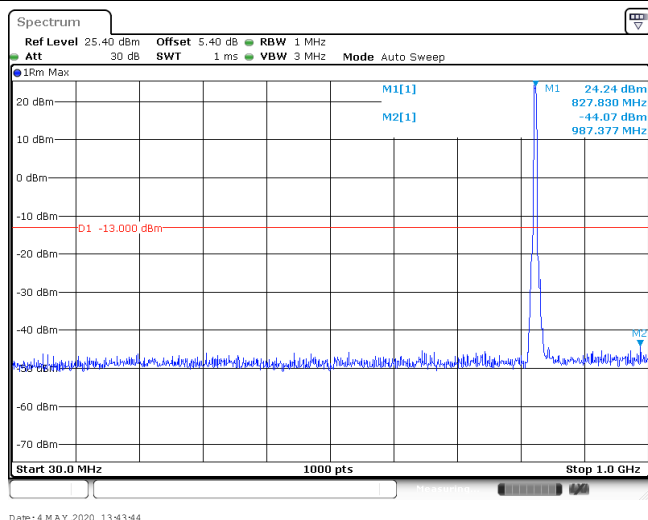


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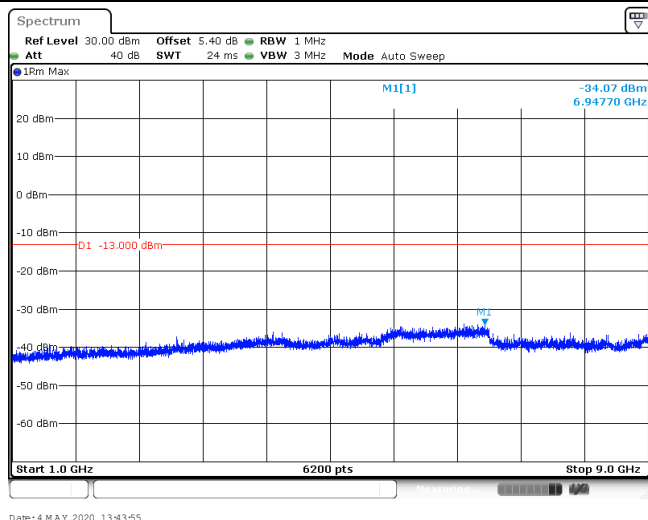
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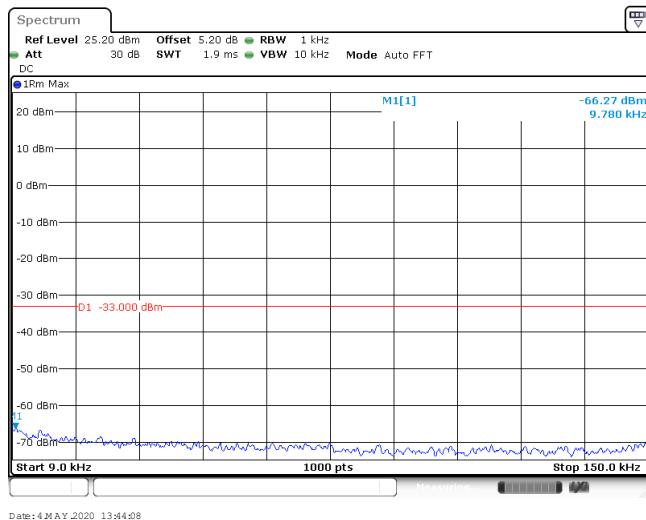


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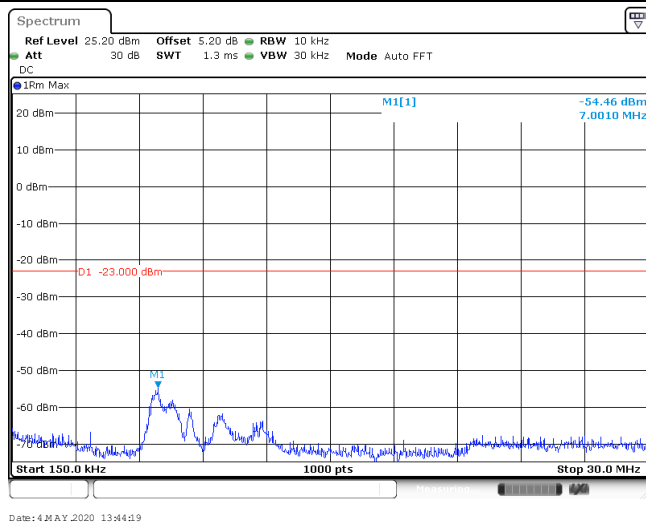


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Band V_4182



Band V_4182

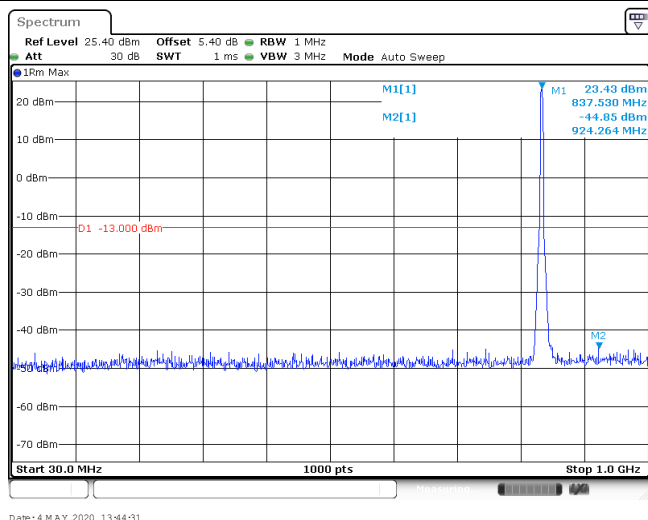


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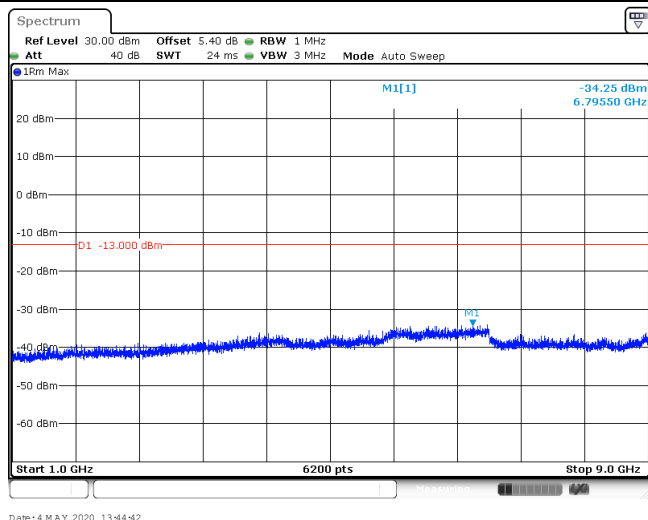
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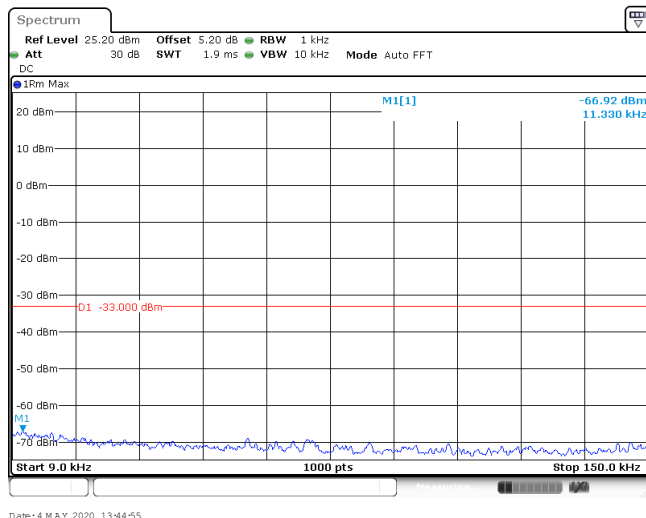
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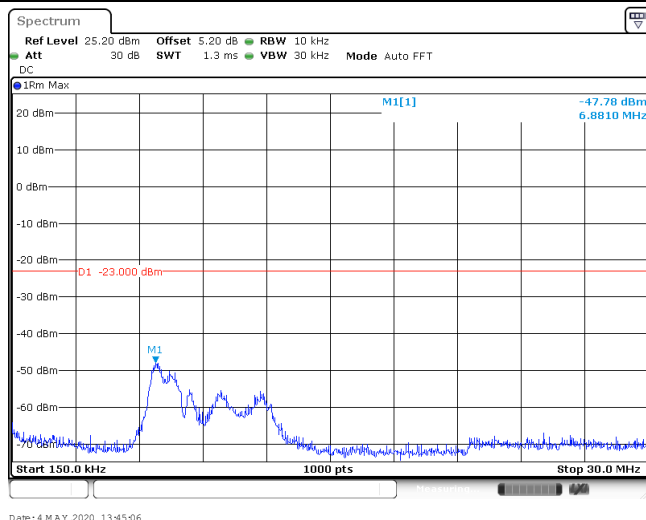
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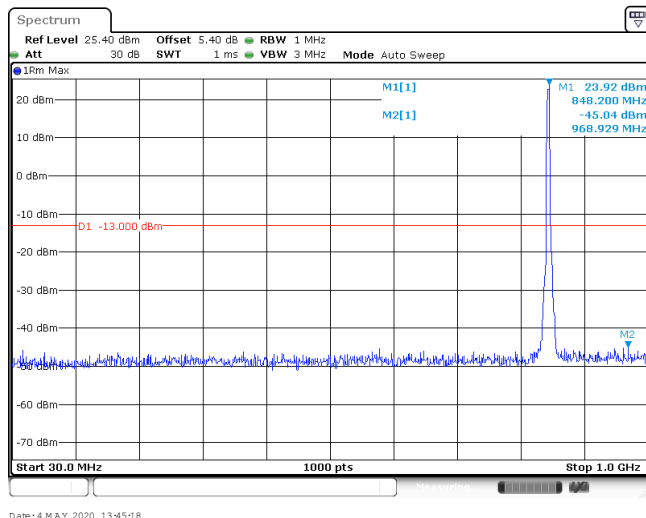


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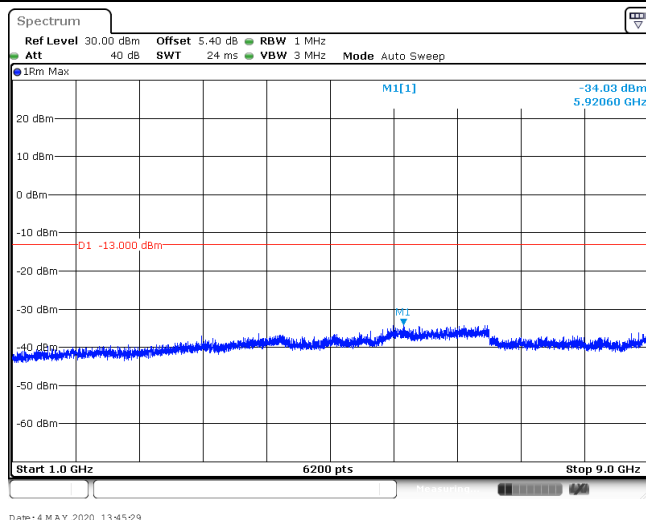


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Band V_4233



Band V_4233





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
56.600000	-78.88	-13.00	65.88	Vertical
333.600000	-83.62	-13.00	70.62	Vertical
955.129167	-75.16	-13.00	62.16	Vertical
3854.100000	-66.78	-13.00	53.78	Vertical
5948.400000	-64.35	-13.00	51.35	Vertical
7991.512500	-62.59	-13.00	49.59	Vertical
57.100000	-74.99	-13.00	61.99	Horizontal
225.950000	-82.69	-13.00	69.69	Horizontal
932.945833	-75.24	-13.00	62.24	Horizontal
3706.875000	-66.83	-13.00	53.83	Horizontal
5827.012500	-65.31	-13.00	52.31	Horizontal
7865.250000	-62.41	-13.00	49.41	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.600000	-78.95	-13.00	65.95	Vertical
361.850000	-84.09	-13.00	71.09	Vertical
936.612500	-75.20	-13.00	62.20	Vertical
3830.700000	-66.89	-13.00	53.89	Vertical
5631.525000	-65.56	-13.00	52.56	Vertical
7703.887500	-63.42	-13.00	50.42	Vertical
55.400000	-75.35	-13.00	62.35	Horizontal
227.250000	-82.54	-13.00	69.54	Horizontal



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938.354167	-74.93	-13.00	61.93	Horizontal
3995.475000	-66.37	-13.00	53.37	Horizontal
5830.912500	-65.52	-13.00	52.52	Horizontal
7806.262500	-62.68	-13.00	49.68	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.400000	-79.07	-13.00	66.07	Vertical
351.650000	-84.22	-13.00	71.22	Vertical
958.658333	-74.38	-13.00	61.38	Vertical
3816.562500	-65.85	-13.00	52.85	Vertical
5917.687500	-64.84	-13.00	51.84	Vertical
8077.312500	-63.09	-13.00	50.09	Vertical
56.800000	-74.83	-13.00	61.83	Horizontal
226.500000	-82.62	-13.00	69.62	Horizontal
959.850000	-74.22	-13.00	61.22	Horizontal
3805.350000	-66.83	-13.00	53.83	Horizontal
5508.675000	-65.41	-13.00	52.41	Horizontal
7487.925000	-63.47	-13.00	50.47	Horizontal

7.2. Test Band = WCDMA Band V

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.300000	-77.54	-13.00	64.54	Vertical
121.450000	-86.69	-13.00	73.69	Vertical
503.075000	-79.14	-13.00	66.14	Vertical
1651.000000	-58.11	-13.00	45.11	Vertical
2652.500000	-56.96	-13.00	43.96	Vertical
3481.162500	-67.58	-13.00	54.58	Vertical



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56.450000	-74.00	-13.00	61.00	Horizontal
229.400000	-81.64	-13.00	68.64	Horizontal
1654.500000	-60.62	-13.00	47.62	Horizontal
2581.500000	-58.34	-13.00	45.34	Horizontal
3357.337500	-67.96	-13.00	54.96	Horizontal
5939.137500	-64.47	-13.00	51.47	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
55.850000	-76.73	-13.00	63.73	Vertical
125.000000	-86.03	-13.00	73.03	Vertical
322.900000	-83.04	-13.00	70.04	Vertical
1674.500000	-55.01	-13.00	42.01	Vertical
2616.000000	-54.41	-13.00	41.41	Vertical
4318.200000	-65.45	-13.00	52.45	Vertical
55.900000	-73.93	-13.00	60.93	Horizontal
223.600000	-80.62	-13.00	67.62	Horizontal
1671.500000	-57.67	-13.00	44.67	Horizontal
2617.000000	-52.92	-13.00	39.92	Horizontal
3836.550000	-66.60	-13.00	53.60	Horizontal
6154.612500	-64.35	-13.00	51.35	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.000000	-77.92	-13.00	64.92	Vertical
125.000000	-85.89	-13.00	72.89	Vertical
471.175000	-79.62	-13.00	66.62	Vertical
1691.500000	-57.40	-13.00	44.40	Vertical
2583.000000	-57.85	-13.00	44.85	Vertical
3459.712500	-67.42	-13.00	54.42	Vertical
56.250000	-74.36	-13.00	61.36	Horizontal



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227.650000	-81.50	-13.00	68.50	Horizontal
614.679167	-75.72	-13.00	62.72	Horizontal
1691.500000	-58.99	-13.00	45.99	Horizontal
2584.000000	-58.36	-13.00	45.36	Horizontal
3358.312500	-67.91	-13.00	54.91	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.





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	15.00	0.008096	±2.5	PASS
Band II	QPSK	9262	VN	TN	3.37	0.001821	±2.5	PASS
Band II	QPSK	9262	VH	TN	-9.47	-0.005113	±2.5	PASS
Band II	QPSK	9400	VL	TN	-9.67	-0.005144	±2.5	PASS
Band II	QPSK	9400	VN	TN	-5.25	-0.002791	±2.5	PASS
Band II	QPSK	9400	VH	TN	10.41	0.005536	±2.5	PASS
Band II	QPSK	9538	VL	TN	9.87	0.005174	±2.5	PASS
Band II	QPSK	9538	VN	TN	-4.83	-0.002531	±2.5	PASS
Band II	QPSK	9538	VH	TN	-7.73	-0.004053	±2.5	PASS
Band V	QPSK	4132	VL	TN	6.63	0.008022	±2.5	PASS
Band V	QPSK	4132	VN	TN	-11.92	-0.014428	±2.5	PASS
Band V	QPSK	4132	VH	TN	1.79	0.002161	±2.5	PASS
Band V	QPSK	4182	VL	TN	-10.74	-0.012842	±2.5	PASS
Band V	QPSK	4182	VN	TN	13.05	0.015608	±2.5	PASS
Band V	QPSK	4182	VH	TN	-6.13	-0.007329	±2.5	PASS
Band V	QPSK	4233	VL	TN	6.11	0.007222	±2.5	PASS
Band V	QPSK	4233	VN	TN	-8.64	-0.010210	±2.5	PASS
Band V	QPSK	4233	VH	TN	-13.33	-0.015742	±2.5	PASS

8.1. Frequency Vs Temperature

Band	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VN	-30	2.09	0.001127	±2.5	PASS
Band II	QPSK	9262	VN	-20	2.56	0.001382	±2.5	PASS
Band II	QPSK	9262	VN	-10	13.36	0.007214	±2.5	PASS
Band II	QPSK	9262	VN	0	0.96	0.000519	±2.5	PASS
Band II	QPSK	9262	VN	10	-8.66	-0.004678	±2.5	PASS
Band II	QPSK	9262	VN	20	7.52	0.004059	±2.5	PASS
Band II	QPSK	9262	VN	30	3.95	0.002134	±2.5	PASS
Band II	QPSK	9262	VN	40	10.32	0.005571	±2.5	PASS
Band II	QPSK	9262	VN	50	8.36	0.004511	±2.5	PASS



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Band II	QPSK	9400	VN	-30	1.83	0.000974	± 2.5	PASS
Band II	QPSK	9400	VN	-20	9.43	0.005016	± 2.5	PASS
Band II	QPSK	9400	VN	-10	0.26	0.000137	± 2.5	PASS
Band II	QPSK	9400	VN	0	-8.06	-0.004287	± 2.5	PASS
Band II	QPSK	9400	VN	10	12.62	0.006712	± 2.5	PASS
Band II	QPSK	9400	VN	20	2.59	0.001379	± 2.5	PASS
Band II	QPSK	9400	VN	30	-8.18	-0.004350	± 2.5	PASS
Band II	QPSK	9400	VN	40	-0.05	-0.000025	± 2.5	PASS
Band II	QPSK	9400	VN	50	1.62	0.000859	± 2.5	PASS
Band II	QPSK	9538	VN	-30	-1.38	-0.000723	± 2.5	PASS
Band II	QPSK	9538	VN	-20	13.16	0.006900	± 2.5	PASS
Band II	QPSK	9538	VN	-10	-2.04	-0.001070	± 2.5	PASS
Band II	QPSK	9538	VN	0	-13.28	-0.006961	± 2.5	PASS
Band II	QPSK	9538	VN	10	-10.79	-0.005656	± 2.5	PASS
Band II	QPSK	9538	VN	20	-13.31	-0.006979	± 2.5	PASS
Band II	QPSK	9538	VN	30	8.98	0.004710	± 2.5	PASS
Band II	QPSK	9538	VN	40	-1.45	-0.000758	± 2.5	PASS
Band II	QPSK	9538	VN	50	-0.56	-0.000294	± 2.5	PASS
Band V	QPSK	4132	VN	-30	0.32	0.000391	± 2.5	PASS
Band V	QPSK	4132	VN	-20	1.79	0.002161	± 2.5	PASS
Band V	QPSK	4132	VN	-10	-1.37	-0.001653	± 2.5	PASS
Band V	QPSK	4132	VN	0	-10.63	-0.012864	± 2.5	PASS
Band V	QPSK	4132	VN	10	1.49	0.001803	± 2.5	PASS
Band V	QPSK	4132	VN	20	1.00	0.001209	± 2.5	PASS
Band V	QPSK	4132	VN	30	11.00	0.013315	± 2.5	PASS
Band V	QPSK	4132	VN	40	2.91	0.003527	± 2.5	PASS
Band V	QPSK	4132	VN	50	12.63	0.015281	± 2.5	PASS
Band V	QPSK	4182	VN	-30	8.11	0.009692	± 2.5	PASS
Band V	QPSK	4182	VN	-20	-6.06	-0.007248	± 2.5	PASS
Band V	QPSK	4182	VN	-10	1.42	0.001700	± 2.5	PASS
Band V	QPSK	4182	VN	0	6.78	0.008111	± 2.5	PASS
Band V	QPSK	4182	VN	10	0.04	0.000054	± 2.5	PASS
Band V	QPSK	4182	VN	20	2.32	0.002772	± 2.5	PASS
Band V	QPSK	4182	VN	30	-3.23	-0.003867	± 2.5	PASS
Band V	QPSK	4182	VN	40	6.11	0.007310	± 2.5	PASS
Band V	QPSK	4182	VN	50	-10.47	-0.012521	± 2.5	PASS
Band V	QPSK	4233	VN	-30	7.29	0.008614	± 2.5	PASS
Band V	QPSK	4233	VN	-20	-12.42	-0.014667	± 2.5	PASS



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Band V	QPSK	4233	VN	-10	4.44	0.005250	± 2.5	PASS
Band V	QPSK	4233	VN	0	-8.56	-0.010109	± 2.5	PASS
Band V	QPSK	4233	VN	10	2.25	0.002654	± 2.5	PASS
Band V	QPSK	4233	VN	20	0.89	0.001048	± 2.5	PASS
Band V	QPSK	4233	VN	30	-9.92	-0.011714	± 2.5	PASS
Band V	QPSK	4233	VN	40	-7.17	-0.008469	± 2.5	PASS
Band V	QPSK	4233	VN	50	11.37	0.013431	± 2.5	PASS

The End

