

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	23.58	19.35	33.00	PASS
Band II	9400	23.61	19.38	33.00	PASS
Band II	9538	23.66	19.43	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	25.35	15.24	38.45	PASS
Band V	4182	25.31	15.20	38.45	PASS
Band V	4233	25.34	15.23	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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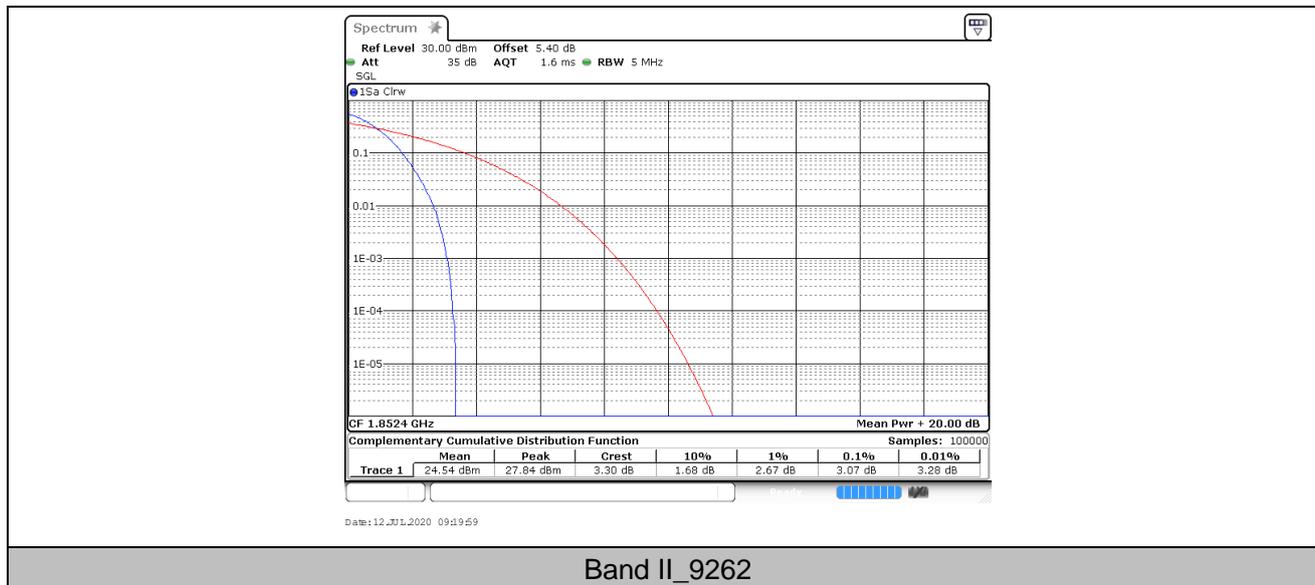
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

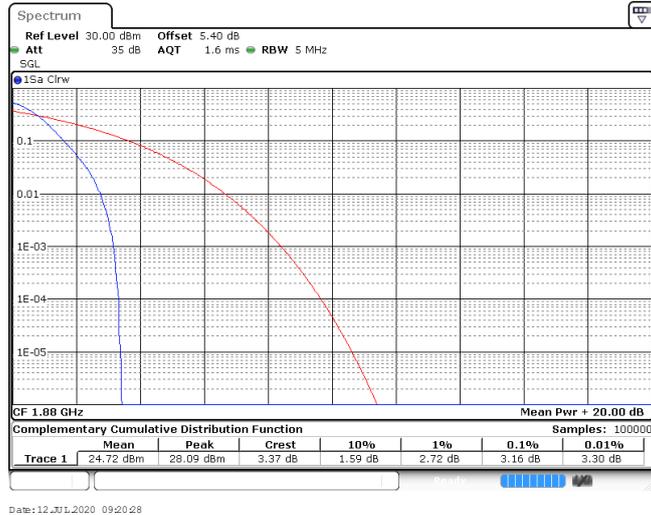
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.07	13	PASS
Band II	9400	3.16	13	PASS
Band II	9538	2.78	13	PASS
Band V	4132	2.67	13	PASS
Band V	4182	2.72	13	PASS
Band V	4233	2.67	13	PASS

2.2. Test Plots

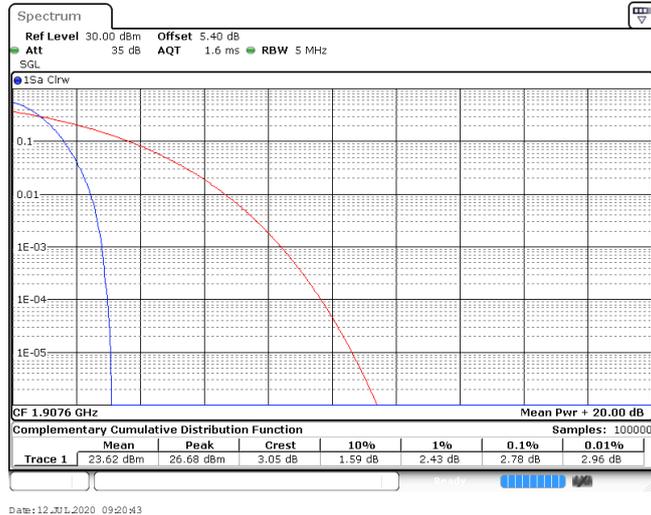


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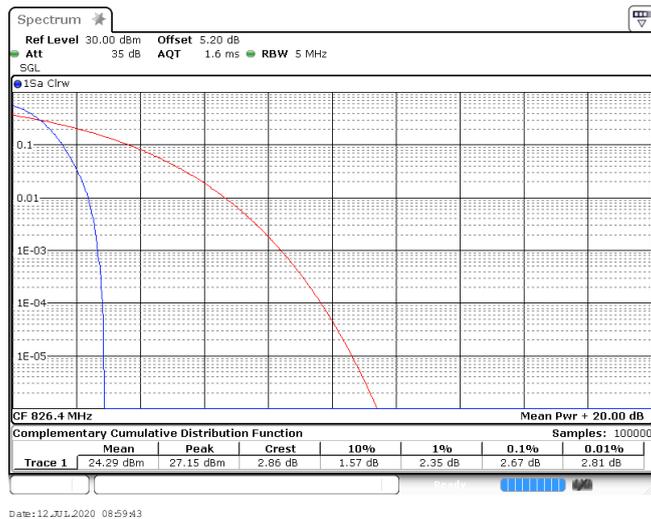


Band II_9538

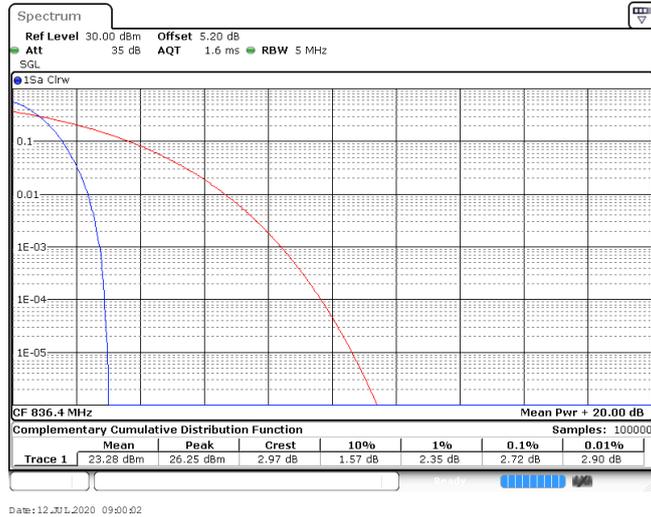


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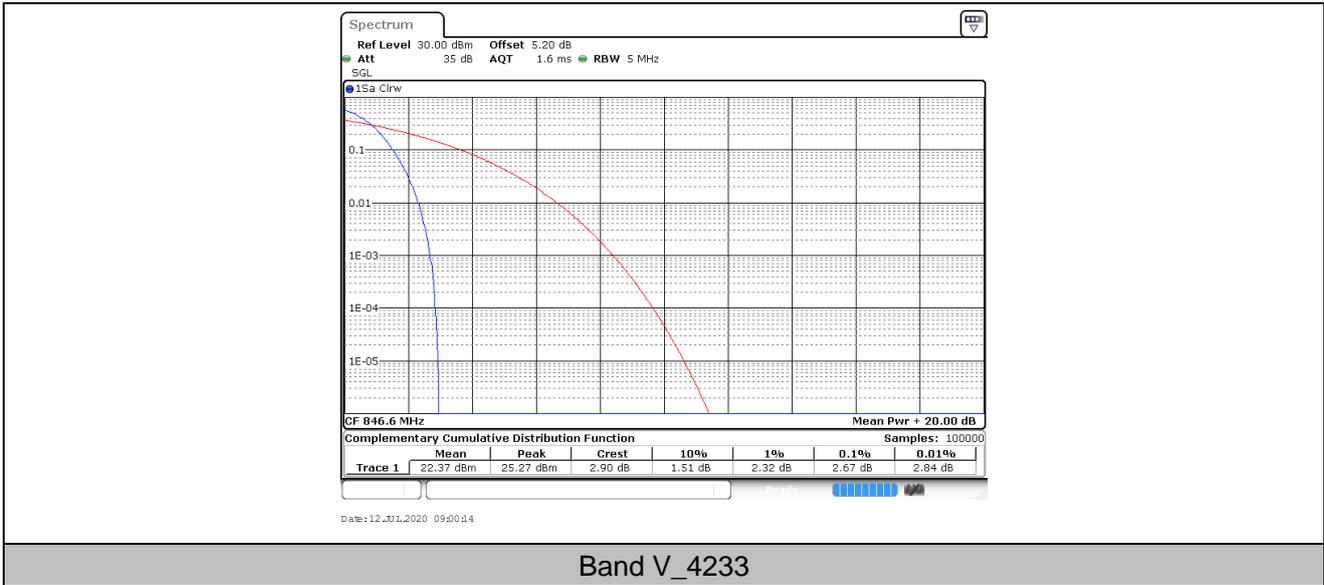


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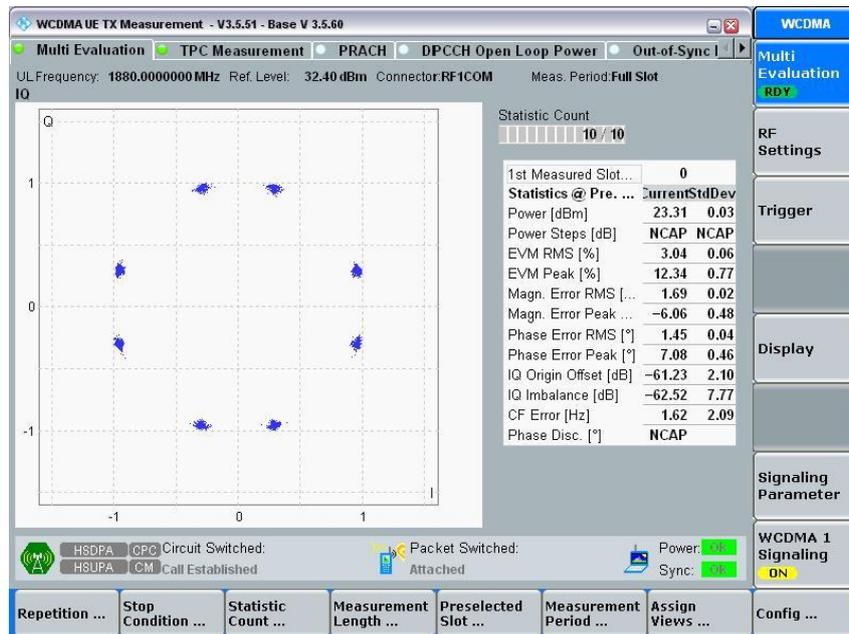
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



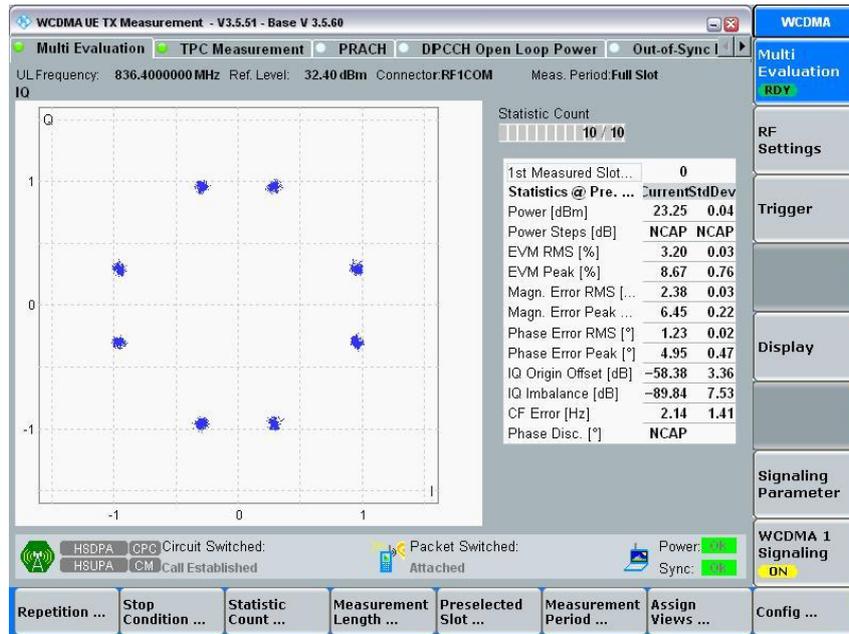
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3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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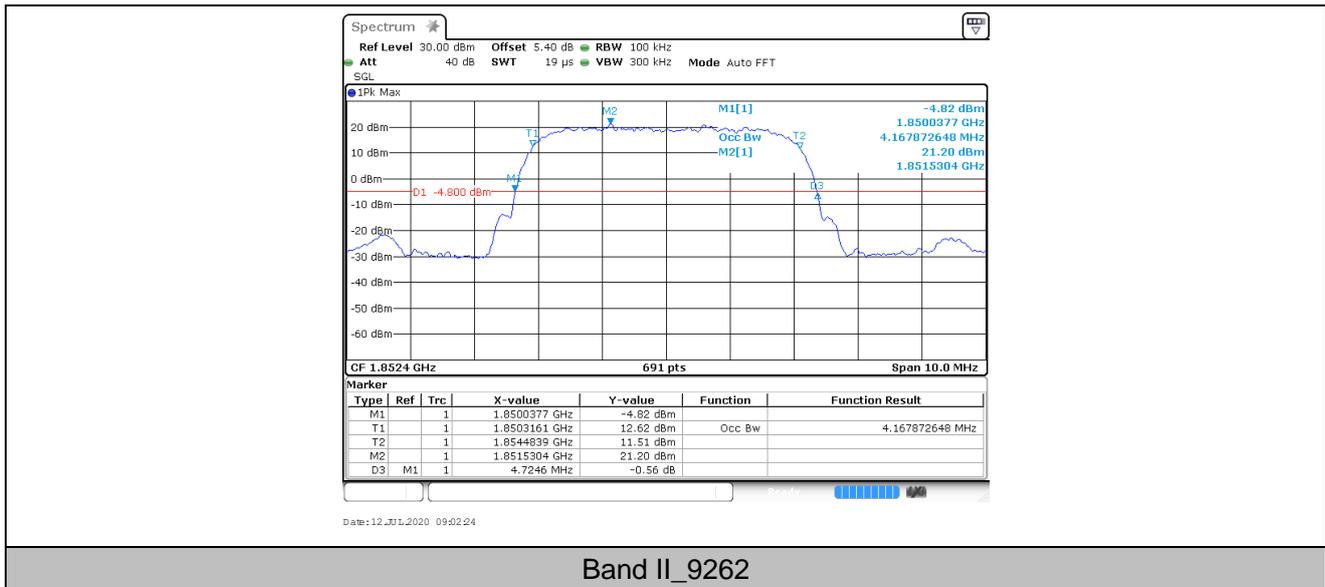
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

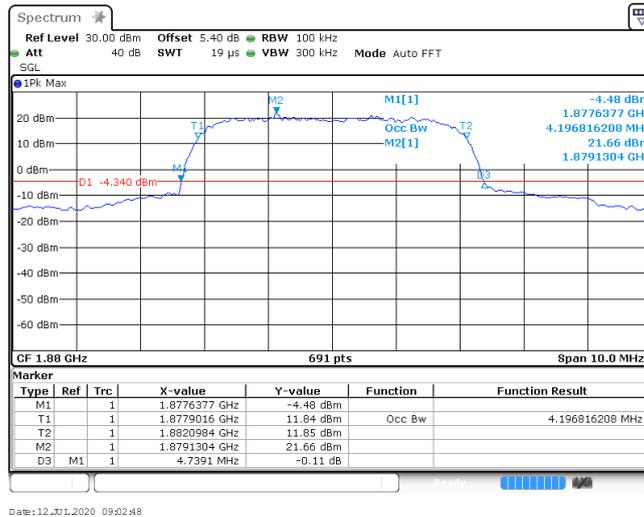
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4725	---	PASS
Band II	9400	4196.8	4739	---	PASS
Band II	9538	4167.9	4754	---	PASS
Band V	4132	4167.9	4768	---	PASS
Band V	4182	4153.4	4754	---	PASS
Band V	4233	4167.9	4754	---	PASS

4.2. Test Plots

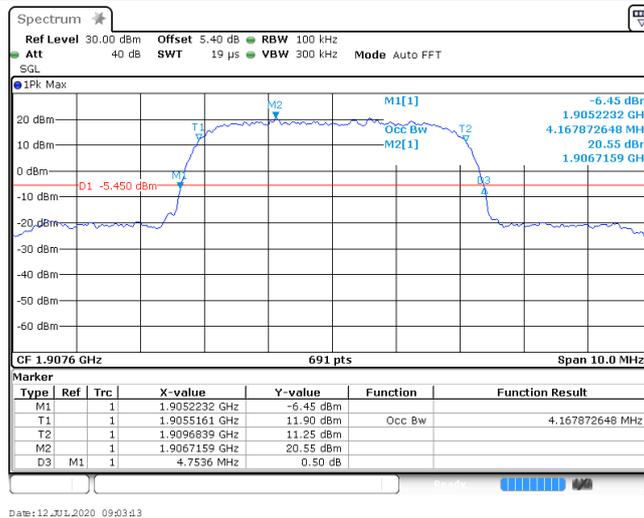


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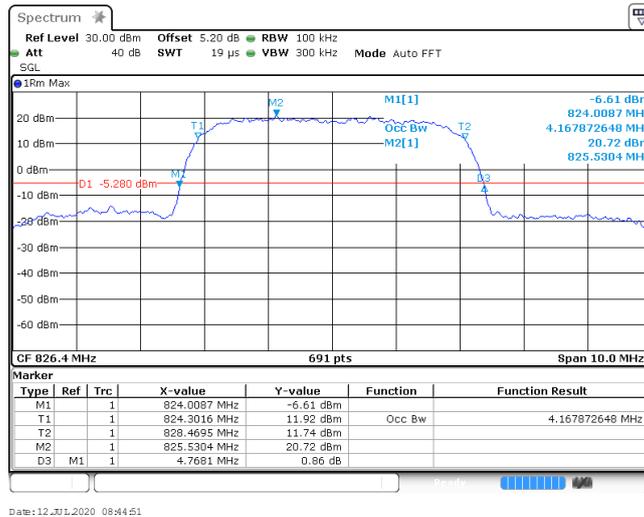


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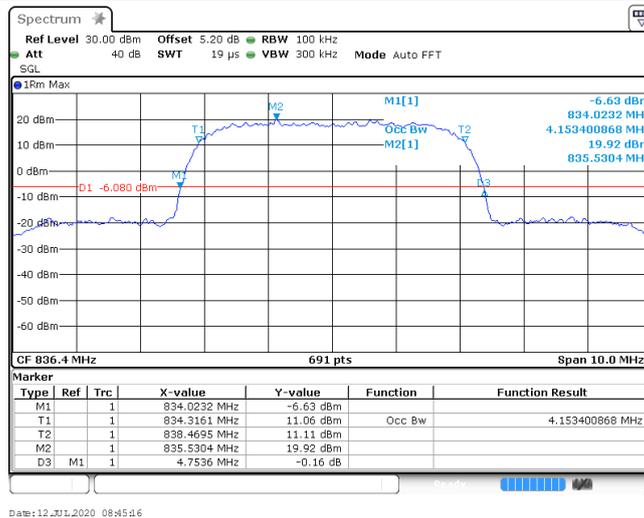


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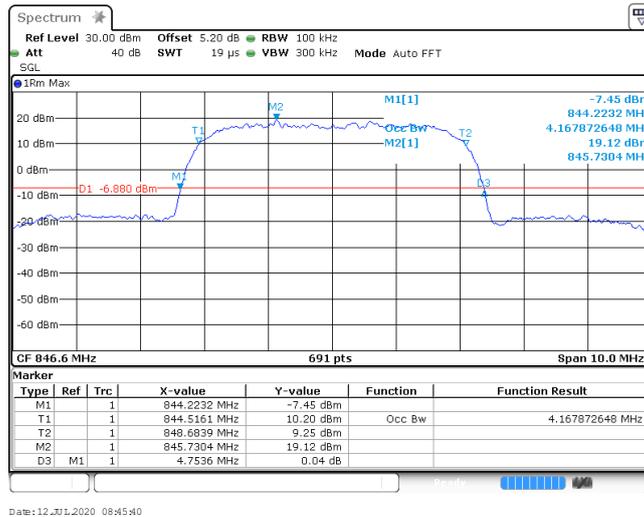


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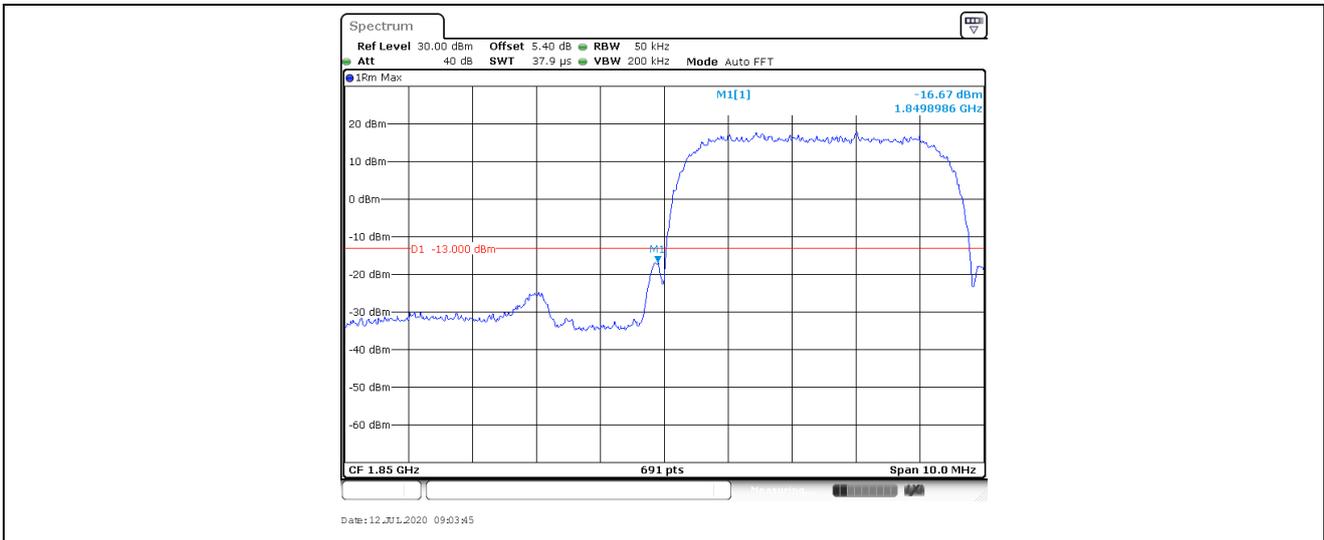


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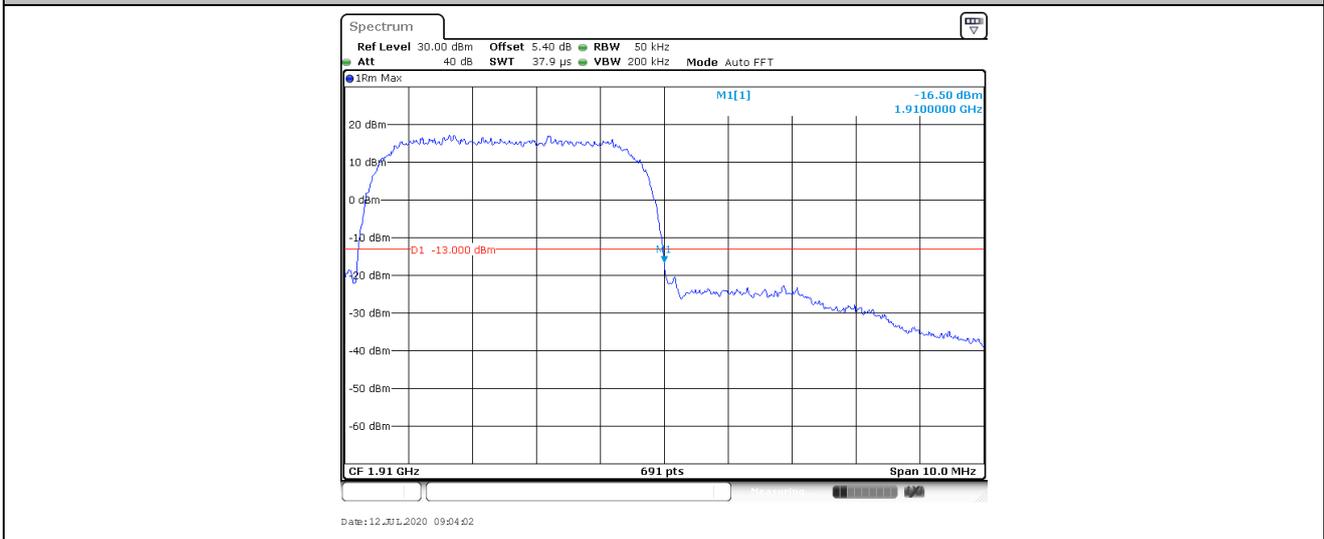
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5. Band Edge Compliance

5.1. Test Plots



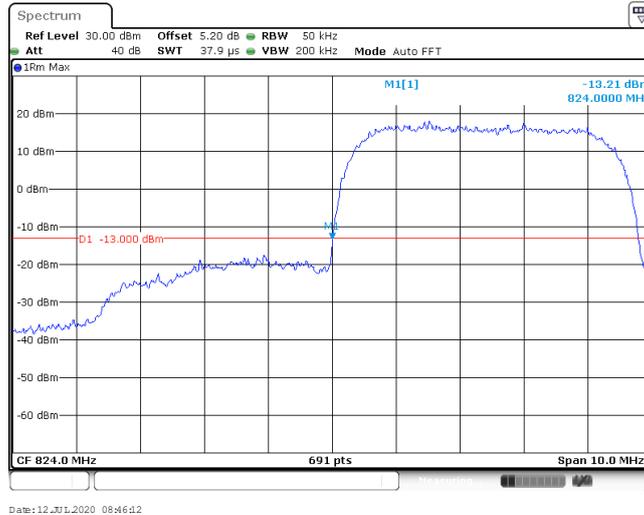
Band II_9262



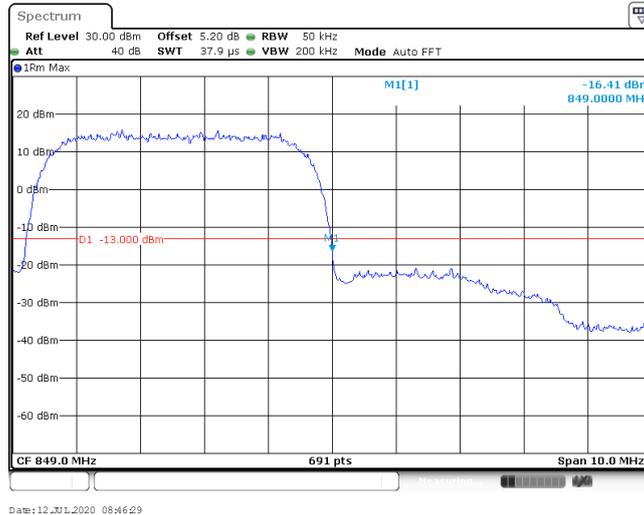
Band II_9538



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Band V_4233



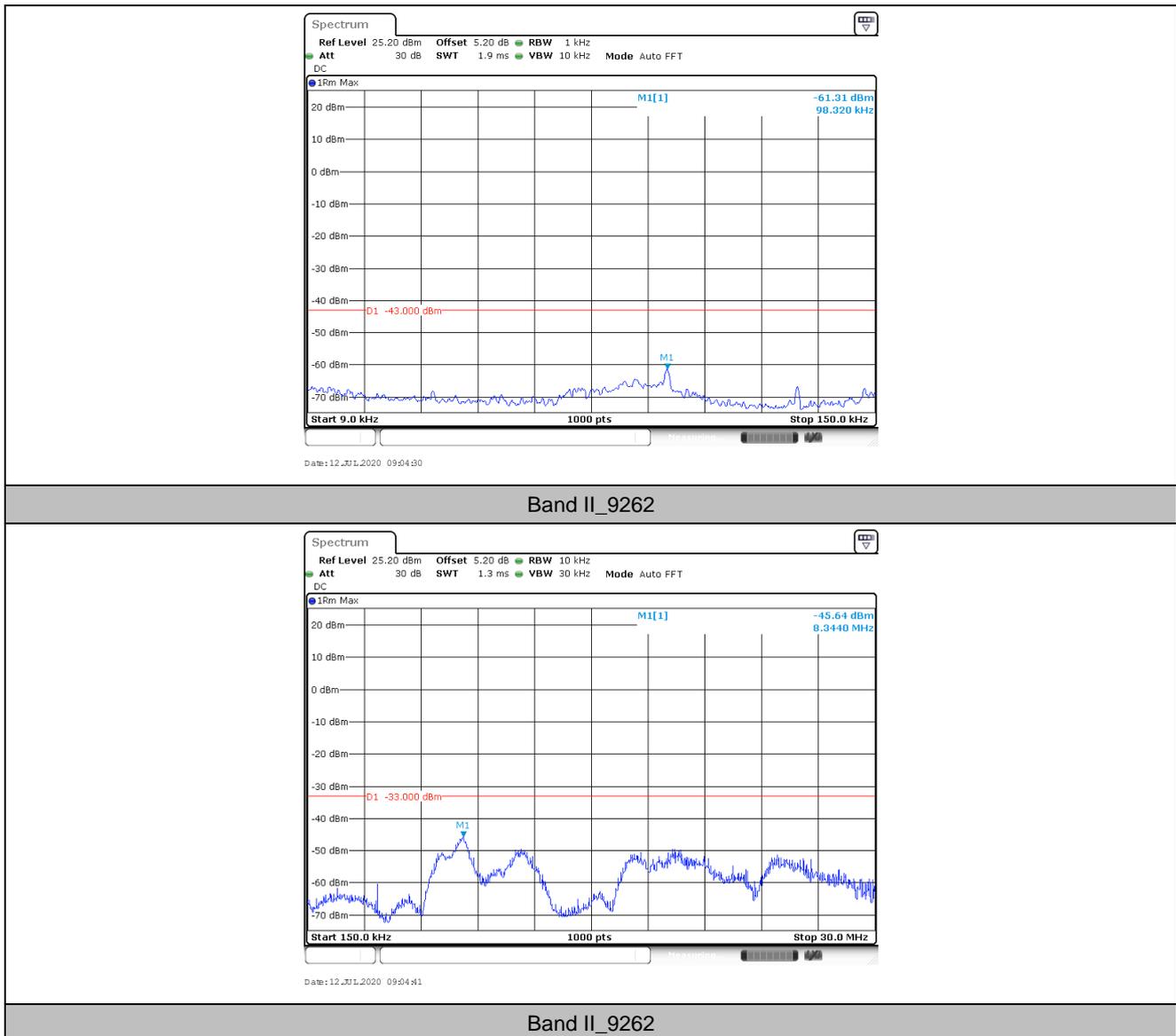
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6. Spurious Emission at Antenna Terminal

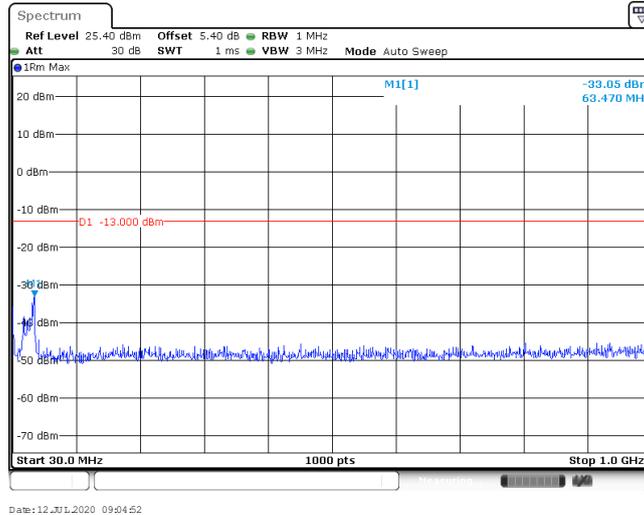
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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.

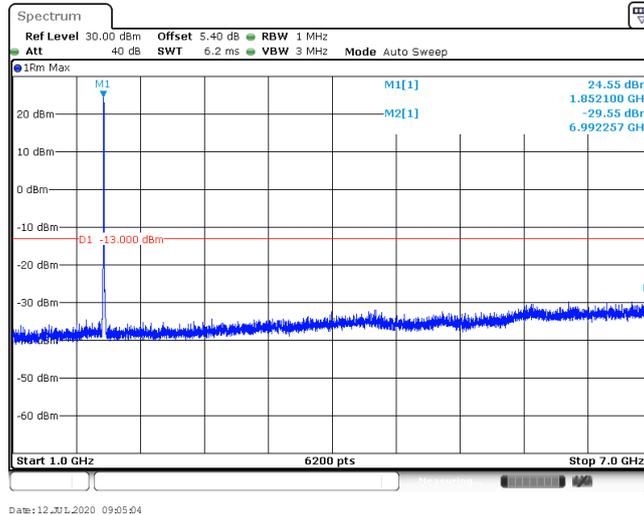
6.1. Test Plots



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



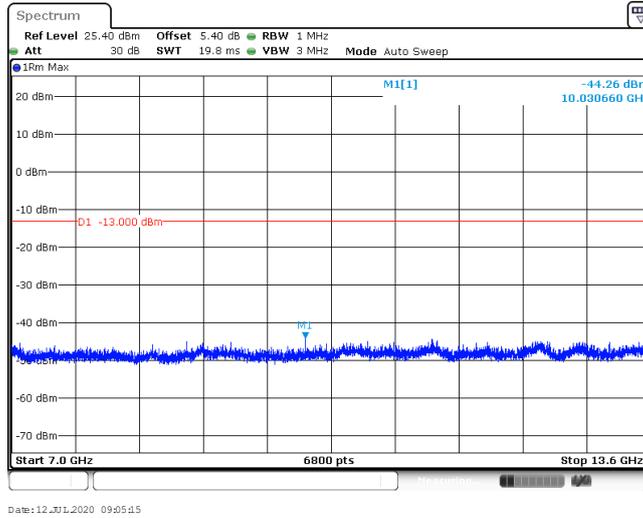
Band II_9262



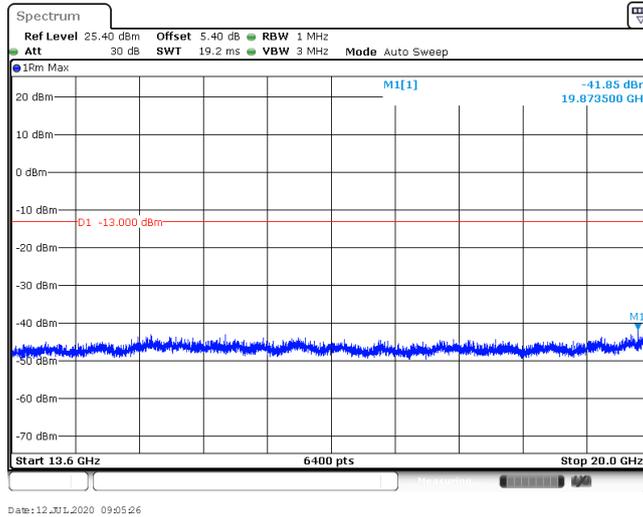
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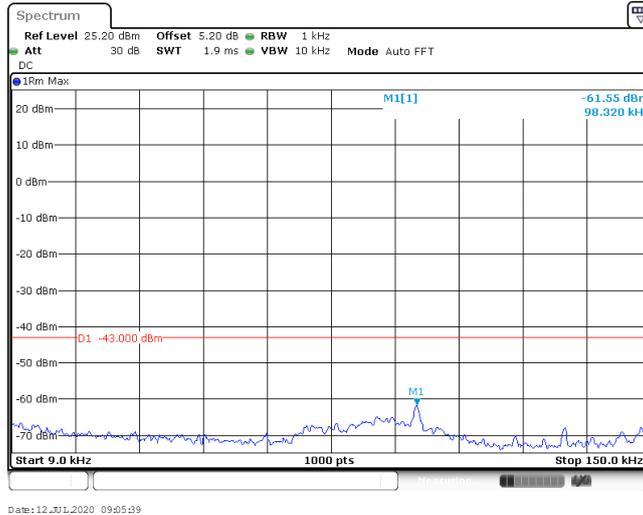
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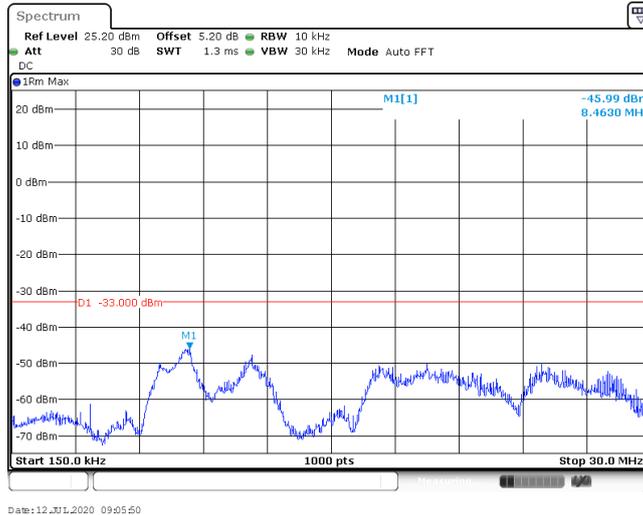
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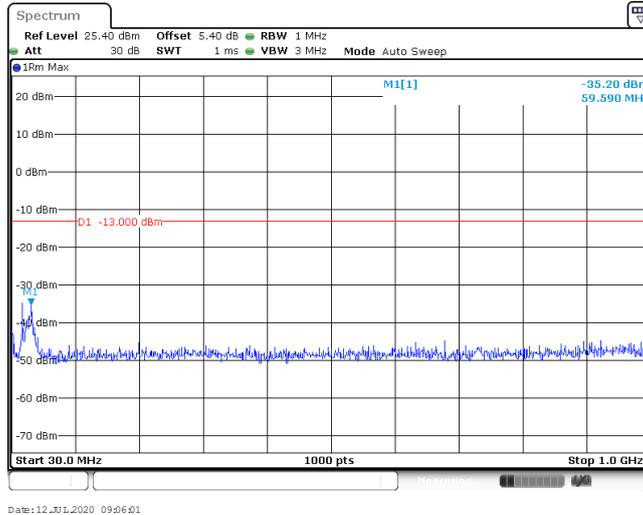


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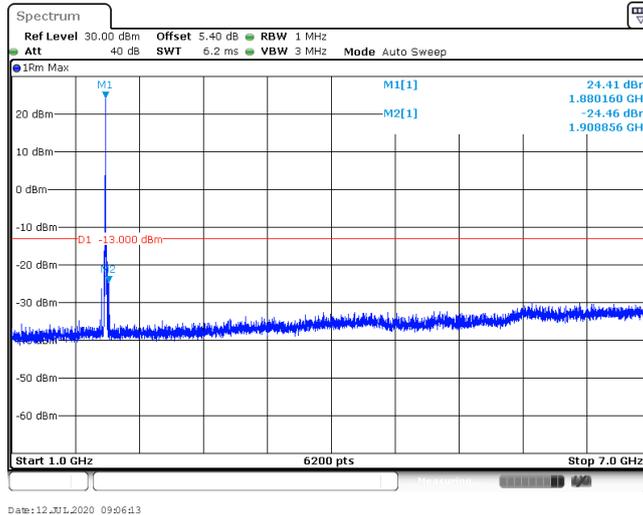


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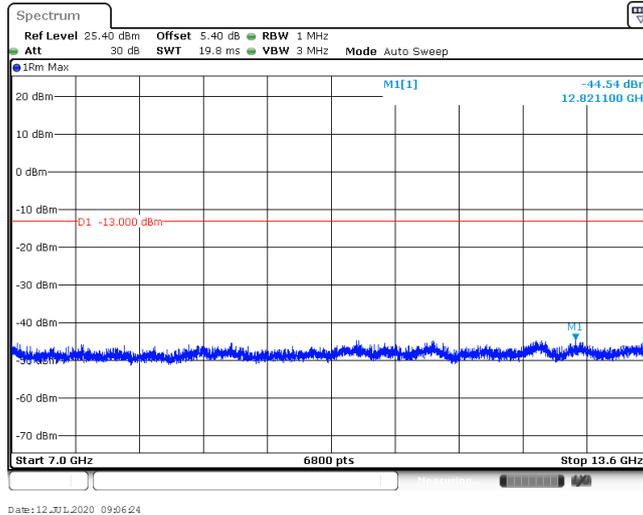
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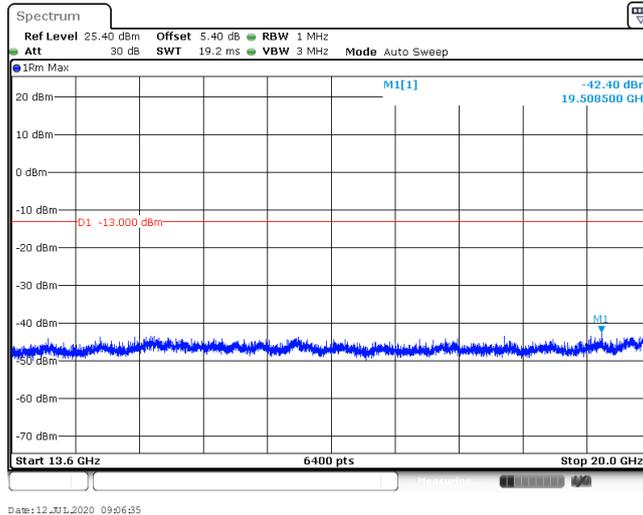
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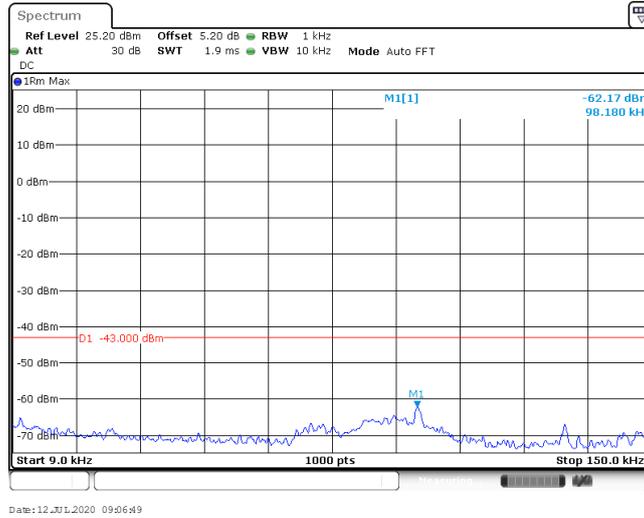
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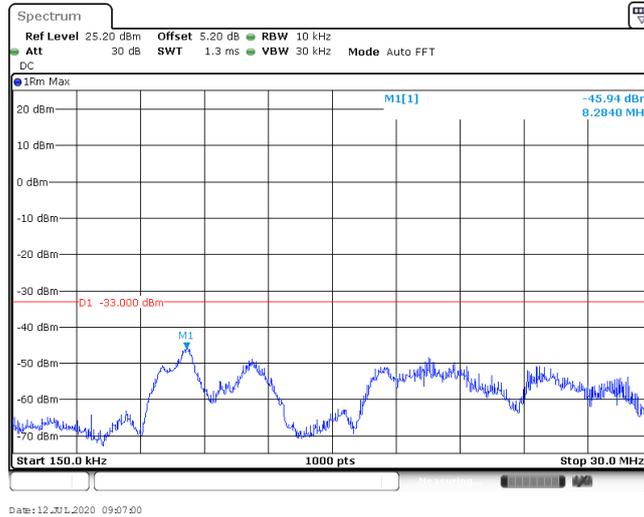
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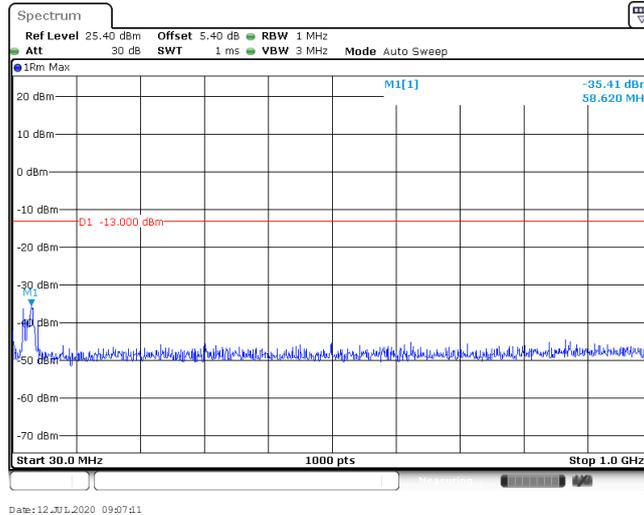
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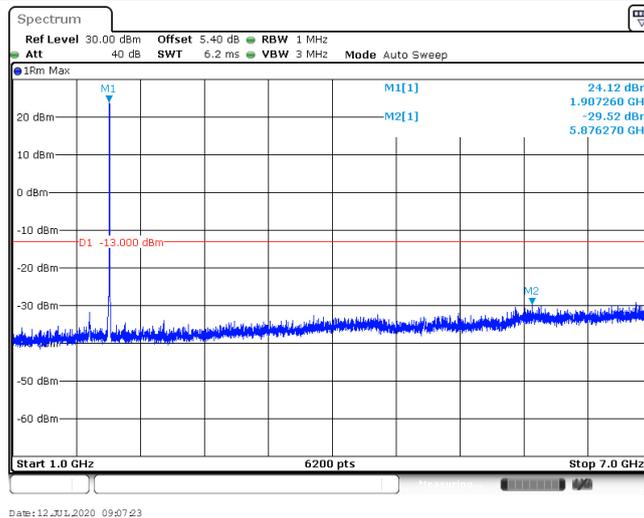
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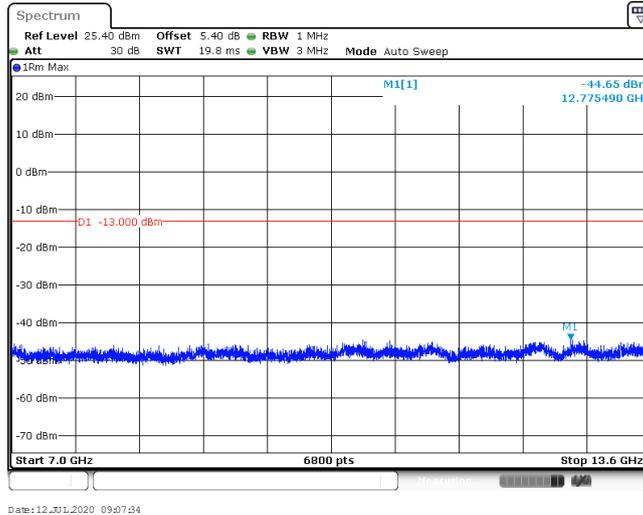
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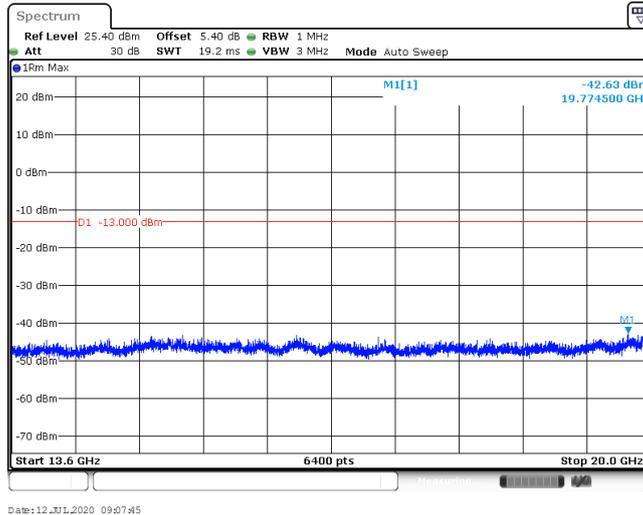
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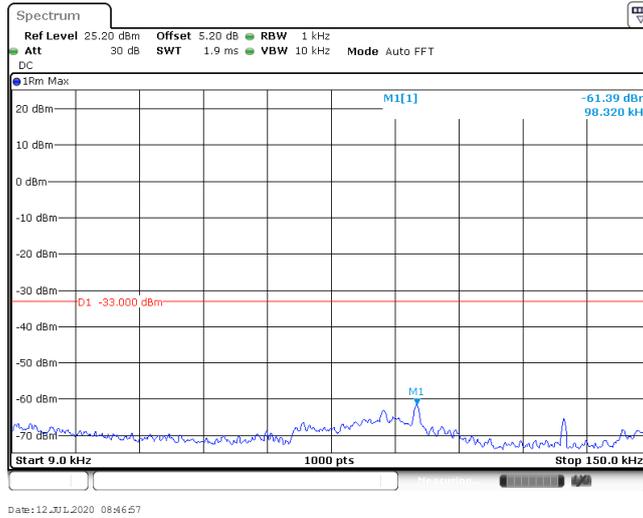


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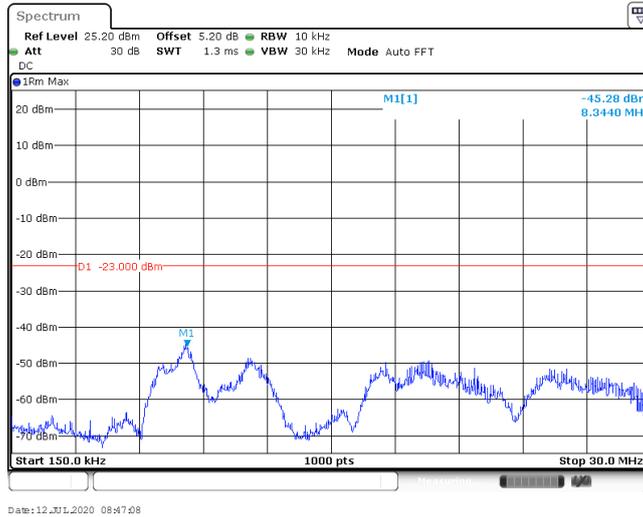


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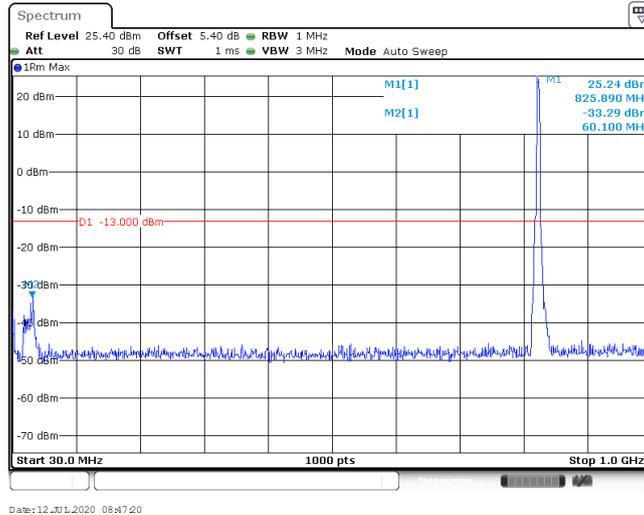
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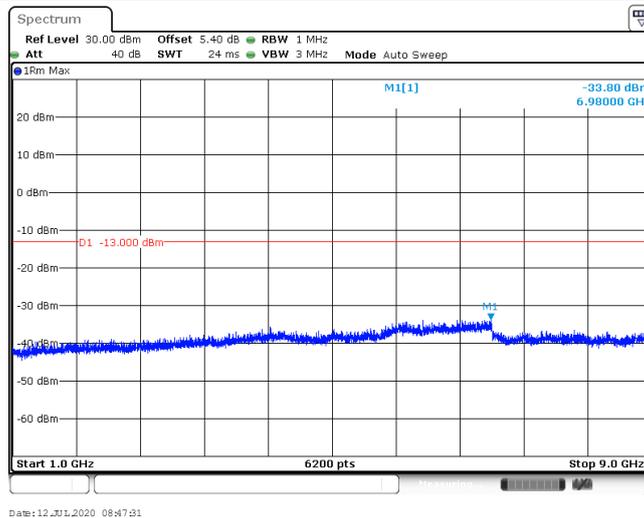
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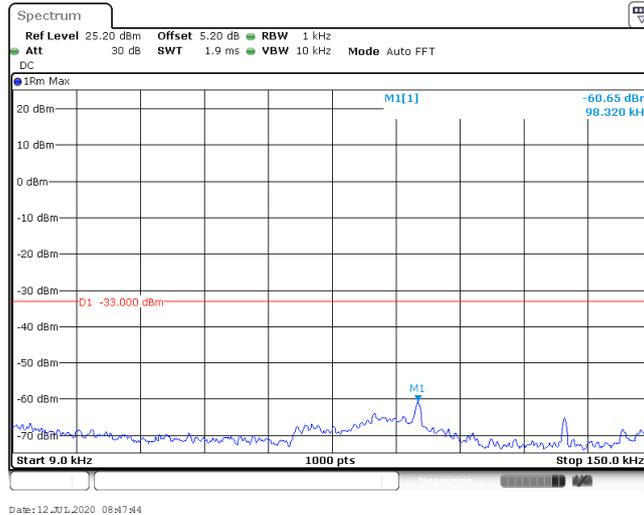


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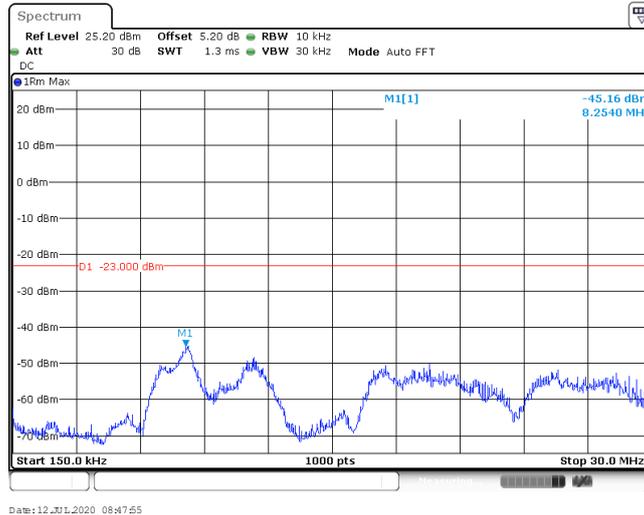


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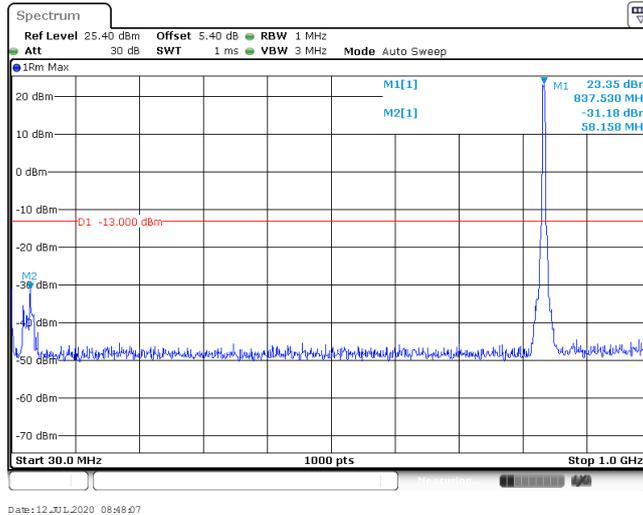


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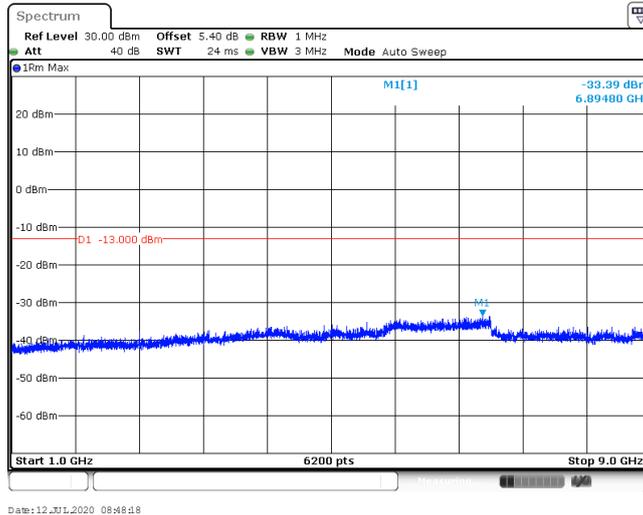


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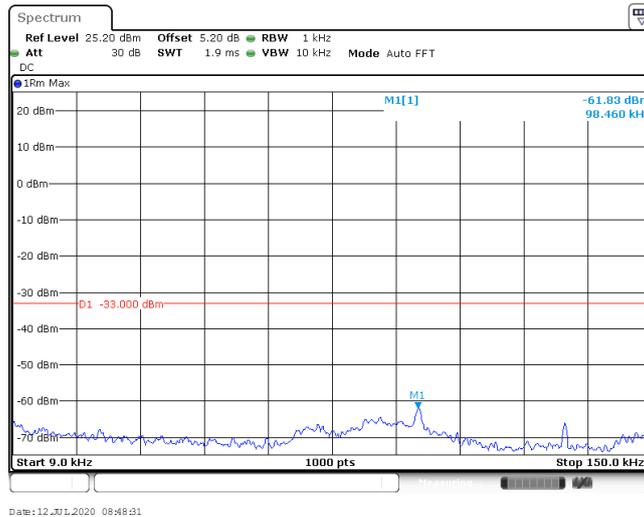


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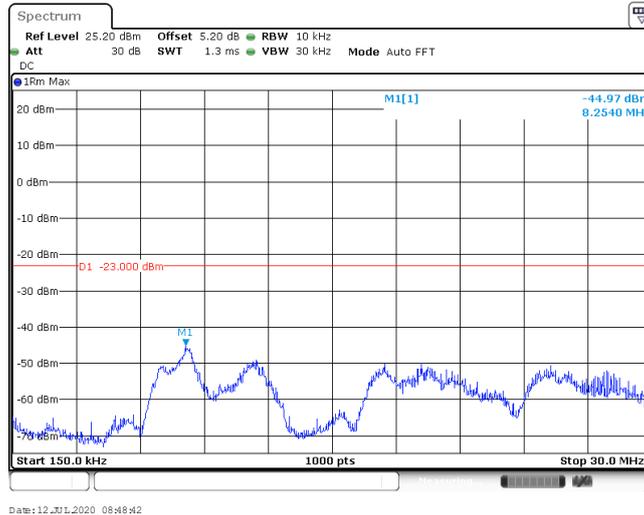


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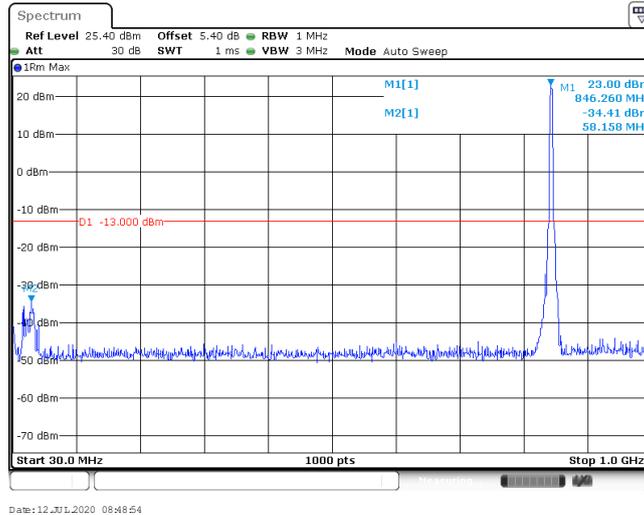


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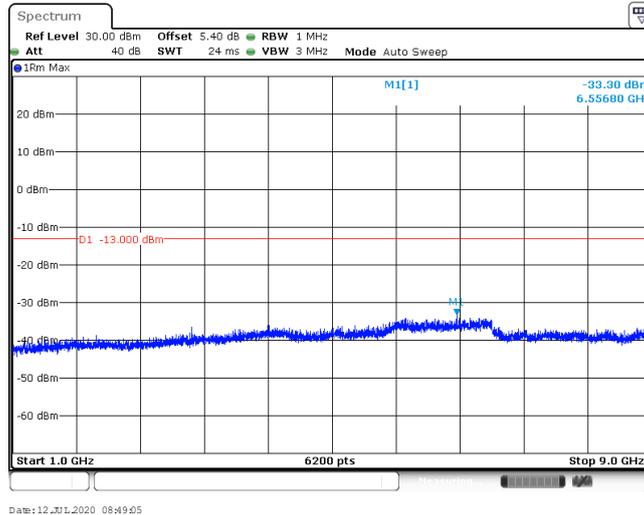


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7. Field Strength of Spurious Radiation

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
54.4452	-71.68	-13.00	58.68	163	5	Vertical
108.7679	-64.83	-13.00	51.83	199	196	Vertical
441.9796	-66.70	-13.00	53.70	167	196	Vertical
2691.9384	-36.75	-13.00	23.75	182	189	Vertical
7350.1450	-55.88	-13.00	42.88	111	5	Vertical
17999.5000	-40.13	-13.00	27.13	286	292	Vertical
43.0957	-63.72	-13.00	50.72	252	133	Horizontal
244.0412	-68.19	-13.00	55.19	277	261	Horizontal
513.8117	-66.00	-13.00	53.00	196	133	Horizontal
2696.7393	-35.53	-13.00	22.53	134	137	Horizontal
7477.1492	-56.21	-13.00	43.21	128	165	Horizontal
16403.9468	-43.45	-13.00	30.45	111	325	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
50.2255	-72.20	-13.00	59.20	132	324	Vertical
111.4841	-64.23	-13.00	51.23	169	229	Vertical
458.6644	-67.61	-13.00	54.61	176	260	Vertical
2693.1386	-36.84	-13.00	23.84	111	268	Vertical
7458.6486	-55.43	-13.00	42.43	189	94	Vertical
17998.5000	-39.74	-13.00	26.74	141	26	Vertical
42.2226	-63.89	-13.00	50.89	218	68	Horizontal
248.6004	-67.44	-13.00	54.44	263	4	Horizontal
630.5085	-63.56	-13.00	50.56	111	4	Horizontal
2700.3401	-35.47	-13.00	22.47	196	306	Horizontal
7460.1487	-56.11	-13.00	43.11	164	261	Horizontal
16400.9467	-43.70	-13.00	30.70	187	4	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.3040	-71.64	-13.00	58.64	163	164	Vertical
116.4313	-65.00	-13.00	52.00	184	3	Vertical
602.4741	-63.98	-13.00	50.98	199	68	Vertical
2715.5431	-36.45	-13.00	23.45	162	44	Vertical
7413.6471	-55.77	-13.00	42.77	284	3	Vertical
17997.4999	-39.98	-13.00	26.98	211	164	Vertical
44.4052	-63.81	-13.00	50.81	261	293	Horizontal
235.3593	-68.46	-13.00	55.46	222	6	Horizontal
501.7831	-65.75	-13.00	52.75	296	6	Horizontal
2699.5399	-35.51	-13.00	22.51	264	29	Horizontal
7476.1492	-55.98	-13.00	42.98	184	38	Horizontal
16409.4470	-43.49	-13.00	30.49	166	197	Horizontal



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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)	Height [cm]	Angle [°]	Polarization
64.5337	-70.97	-13.00	57.97	178	4	Vertical
110.0290	-64.34	-13.00	51.34	145	164	Vertical
387.1719	-68.02	-13.00	55.02	121	164	Vertical
2995.1990	-51.31	-13.00	38.31	155	324	Vertical
7457.1486	-55.52	-13.00	42.52	263	356	Vertical
17993.9998	-39.93	-13.00	26.93	284	196	Vertical
38.4879	-64.50	-13.00	51.50	171	5	Horizontal
237.4934	-67.63	-13.00	54.63	152	293	Horizontal
570.3170	-64.09	-13.00	51.09	263	165	Horizontal
1654.9310	-58.79	-13.00	45.79	299	37	Horizontal
2693.5387	-50.87	-13.00	37.87	218	118	Horizontal
16393.4464	-43.34	-13.00	30.34	264	229	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
50.8560	-72.61	-13.00	59.61	196	166	Vertical
118.8079	-63.84	-13.00	50.84	252	229	Vertical
511.1926	-65.79	-13.00	52.79	234	229	Vertical
2501.1002	-50.54	-13.00	37.54	294	26	Vertical
7447.1482	-55.57	-13.00	42.57	261	70	Vertical
17998.5000	-40.28	-13.00	27.28	118	70	Vertical
43.1927	-63.07	-13.00	50.07	263	67	Horizontal
234.6802	-67.21	-13.00	54.21	222	356	Horizontal
1699.7399	-60.96	-13.00	47.96	278	282	Horizontal
2501.1002	-50.30	-13.00	37.30	217	191	Horizontal
7494.6498	-55.93	-13.00	42.93	299	258	Horizontal
16394.4465	-43.40	-13.00	30.40	101	290	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
60.9445	-72.19	-13.00	59.19	252	5	Vertical
111.6296	-64.91	-13.00	51.91	263	100	Vertical
465.0183	-67.48	-13.00	54.48	288	228	Vertical
2993.5987	-51.37	-13.00	38.37	264	169	Vertical
7345.6449	-55.50	-13.00	42.50	184	292	Vertical
17999.5000	-40.09	-13.00	27.09	169	228	Vertical
40.5735	-64.25	-13.00	51.25	163	37	Horizontal
236.1838	-67.70	-13.00	54.70	154	5	Horizontal
584.5767	-63.88	-13.00	50.88	178	229	Horizontal
2698.3397	-50.83	-13.00	37.83	199	29	Horizontal
8044.1681	-56.36	-13.00	43.36	164	229	Horizontal
16389.9463	-43.48	-13.00	30.48	182	261	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
Band II	9262	VL	TN	5.23	0.002823	±2.5	PASS
Band II	9262	VN	TN	-11.25	-0.006073	±2.5	PASS
Band II	9262	VH	TN	-13.84	-0.007470	±2.5	PASS
Band II	9400	VL	TN	1.88	0.000998	±2.5	PASS
Band II	9400	VN	TN	0.17	0.000088	±2.5	PASS
Band II	9400	VH	TN	-14.18	-0.007540	±2.5	PASS
Band II	9538	VL	TN	13.55	0.007104	±2.5	PASS
Band II	9538	VN	TN	-5.52	-0.002895	±2.5	PASS
Band II	9538	VH	TN	-14.62	-0.007664	±2.5	PASS
Band V	4132	VL	TN	7.13	0.008627	±2.5	PASS
Band V	4132	VN	TN	6.08	0.007353	±2.5	PASS
Band V	4132	VH	TN	11.90	0.014401	±2.5	PASS
Band V	4182	VL	TN	-1.66	-0.001987	±2.5	PASS
Band V	4182	VN	TN	-7.08	-0.008462	±2.5	PASS
Band V	4182	VH	TN	-13.29	-0.015887	±2.5	PASS
Band V	4233	VL	TN	-9.53	-0.011257	±2.5	PASS
Band V	4233	VN	TN	-8.25	-0.009744	±2.5	PASS
Band V	4233	VH	TN	5.56	0.006570	±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
Band II	9262	VN	-30	5.21	0.002813	±2.5	PASS
Band II	9262	VN	-20	-9.37	-0.005060	±2.5	PASS
Band II	9262	VN	-10	8.28	0.004469	±2.5	PASS
Band II	9262	VN	0	0.08	0.000043	±2.5	PASS
Band II	9262	VN	10	3.50	0.001892	±2.5	PASS
Band II	9262	VN	20	6.39	0.003449	±2.5	PASS
Band II	9262	VN	30	-13.78	-0.007438	±2.5	PASS
Band II	9262	VN	40	1.52	0.000819	±2.5	PASS
Band II	9262	VN	50	3.64	0.001967	±2.5	PASS
Band II	9400	VN	-30	-12.81	-0.006814	±2.5	PASS
Band II	9400	VN	-20	-3.26	-0.001736	±2.5	PASS
Band II	9400	VN	-10	2.12	0.001125	±2.5	PASS
Band II	9400	VN	0	9.23	0.004907	±2.5	PASS
Band II	9400	VN	10	2.33	0.001237	±2.5	PASS
Band II	9400	VN	20	8.67	0.004612	±2.5	PASS
Band II	9400	VN	30	8.06	0.004285	±2.5	PASS
Band II	9400	VN	40	-2.14	-0.001136	±2.5	PASS
Band II	9400	VN	50	9.06	0.004821	±2.5	PASS
Band II	9538	VN	-30	-8.79	-0.004610	±2.5	PASS
Band II	9538	VN	-20	-9.87	-0.005172	±2.5	PASS
Band II	9538	VN	-10	-3.75	-0.001963	±2.5	PASS
Band II	9538	VN	0	-10.35	-0.005428	±2.5	PASS
Band II	9538	VN	10	3.24	0.001700	±2.5	PASS
Band II	9538	VN	20	-3.92	-0.002055	±2.5	PASS
Band II	9538	VN	30	-8.07	-0.004230	±2.5	PASS
Band II	9538	VN	40	-12.60	-0.006605	±2.5	PASS
Band II	9538	VN	50	5.73	0.003006	±2.5	PASS
Band V	4132	VN	-30	13.91	0.016829	±2.5	PASS
Band V	4132	VN	-20	9.99	0.012093	±2.5	PASS
Band V	4132	VN	-10	-13.55	-0.016395	±2.5	PASS
Band V	4132	VN	0	8.23	0.009954	±2.5	PASS
Band V	4132	VN	10	-2.73	-0.003300	±2.5	PASS



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Band V	4132	VN	20	-11.90	-0.014400	±2.5	PASS
Band V	4132	VN	30	14.98	0.018130	±2.5	PASS
Band V	4132	VN	40	10.87	0.013159	±2.5	PASS
Band V	4132	VN	50	-14.83	-0.017946	±2.5	PASS
Band V	4182	VN	-30	-4.25	-0.005086	±2.5	PASS
Band V	4182	VN	-20	-10.25	-0.012260	±2.5	PASS
Band V	4182	VN	-10	-8.58	-0.010264	±2.5	PASS
Band V	4182	VN	0	-2.65	-0.003165	±2.5	PASS
Band V	4182	VN	10	2.69	0.003212	±2.5	PASS
Band V	4182	VN	20	13.36	0.015973	±2.5	PASS
Band V	4182	VN	30	4.74	0.005667	±2.5	PASS
Band V	4182	VN	40	-4.14	-0.004947	±2.5	PASS
Band V	4182	VN	50	12.01	0.014355	±2.5	PASS
Band V	4233	VN	-30	-0.48	-0.000566	±2.5	PASS
Band V	4233	VN	-20	1.86	0.002198	±2.5	PASS
Band V	4233	VN	-10	-0.76	-0.000902	±2.5	PASS
Band V	4233	VN	0	-4.29	-0.005067	±2.5	PASS
Band V	4233	VN	10	-10.10	-0.011926	±2.5	PASS
Band V	4233	VN	20	-7.80	-0.009215	±2.5	PASS
Band V	4233	VN	30	12.11	0.014310	±2.5	PASS
Band V	4233	VN	40	-13.96	-0.016492	±2.5	PASS
Band V	4233	VN	50	-13.83	-0.016340	±2.5	PASS

The End



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