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	22.96	22.96	33.00	PASS
Band II	9400	23.06	23.06	33.00	PASS
Band II	9538	23.03	23.03	33.00	PASS
Band IV	4132	22.77	22.27	30.00	PASS
Band IV	4182	22.64	22.14	30.00	PASS
Band IV	4233	22.72	22.22	30.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.12	17.93	38.45	PASS
Band V	4182	23.13	17.94	38.45	PASS
Band V	4233	23.21	18.02	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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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	PASS
Band II	9400	3.04	13	PASS
Band II	9538	2.87	13	PASS
Band IV	1312	3.19	13	PASS
Band IV	1413	3.01	13	PASS
Band IV	1513	2.81	13	PASS
Band V	4132	2.99	13	PASS
Band V	4182	3.13	13	PASS
Band V	4233	2.90	13	PASS

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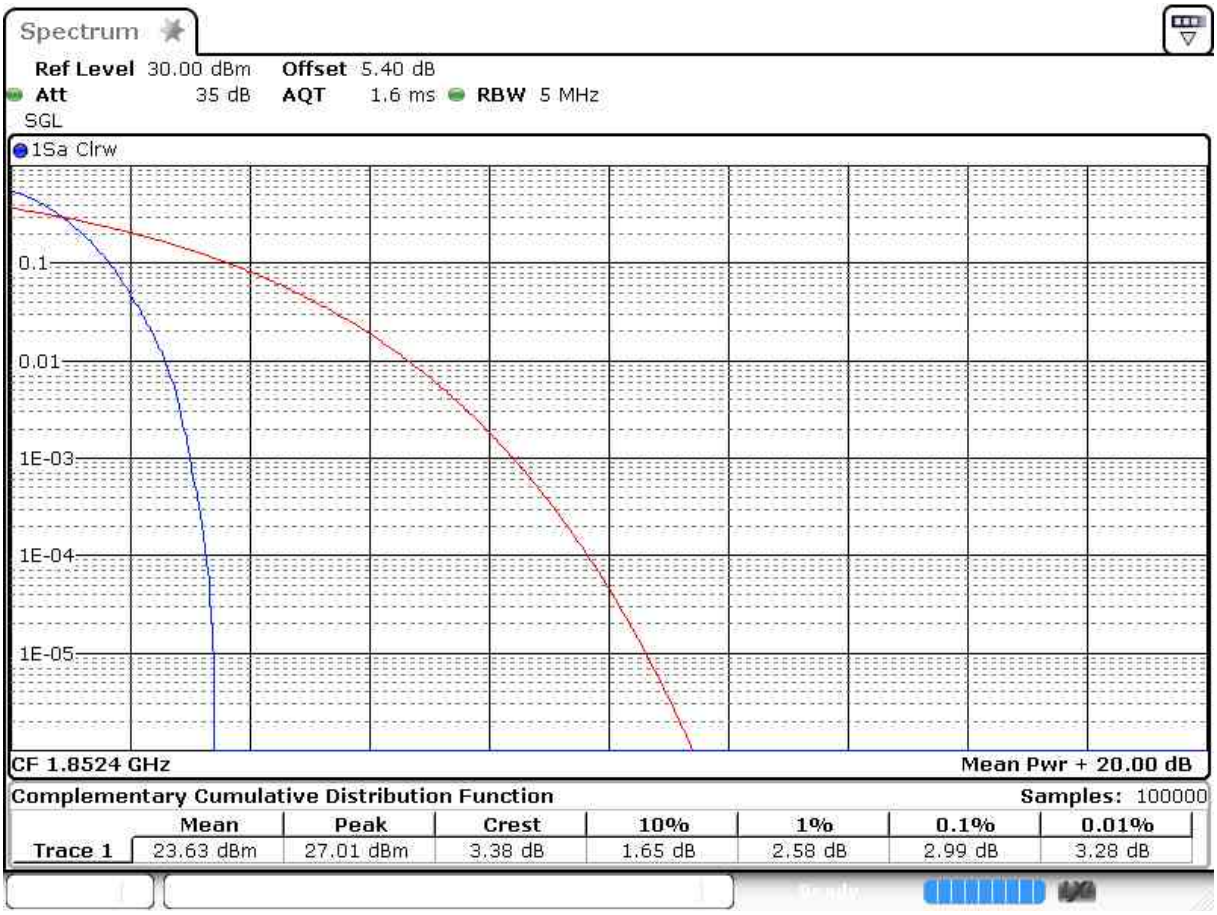
2.2. Test Plots

Band II_9262



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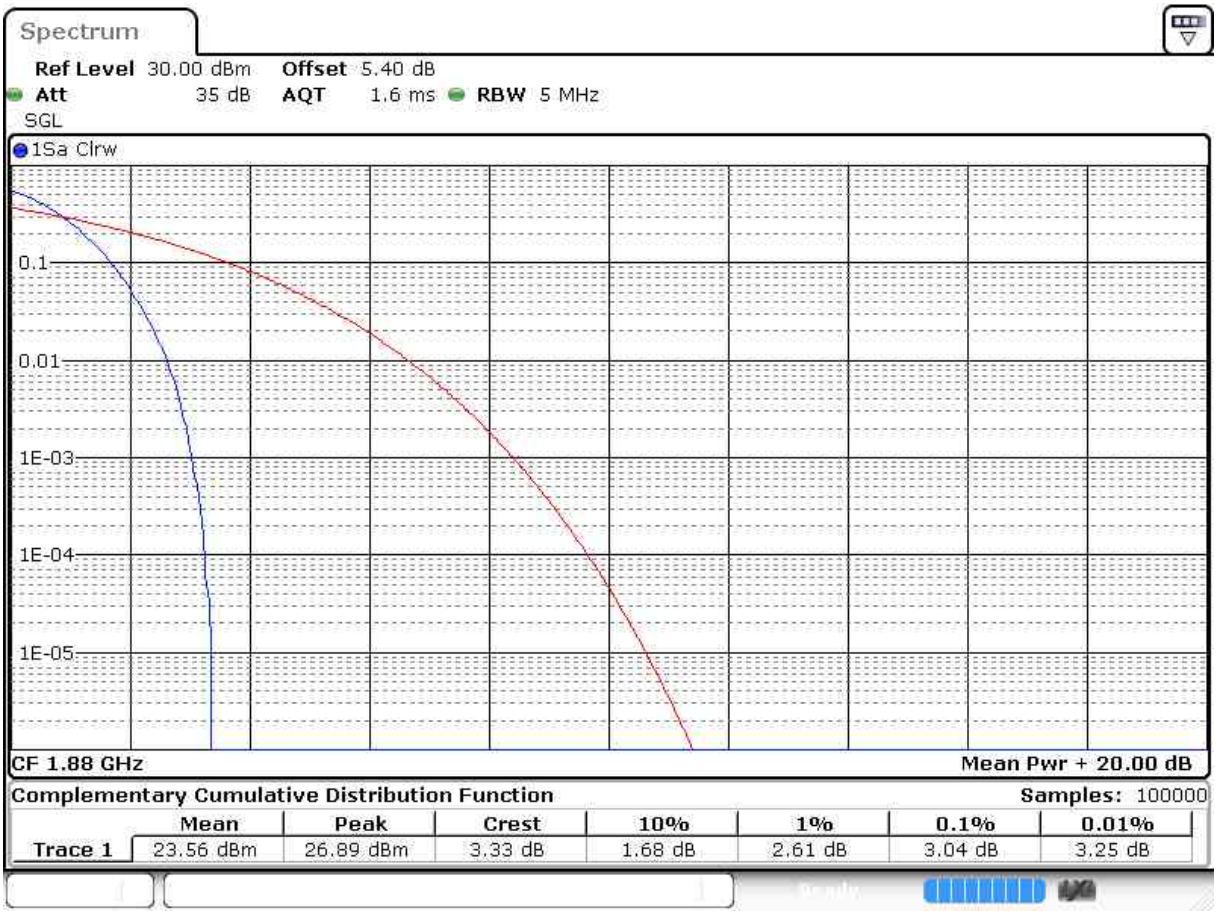
Band II_9400



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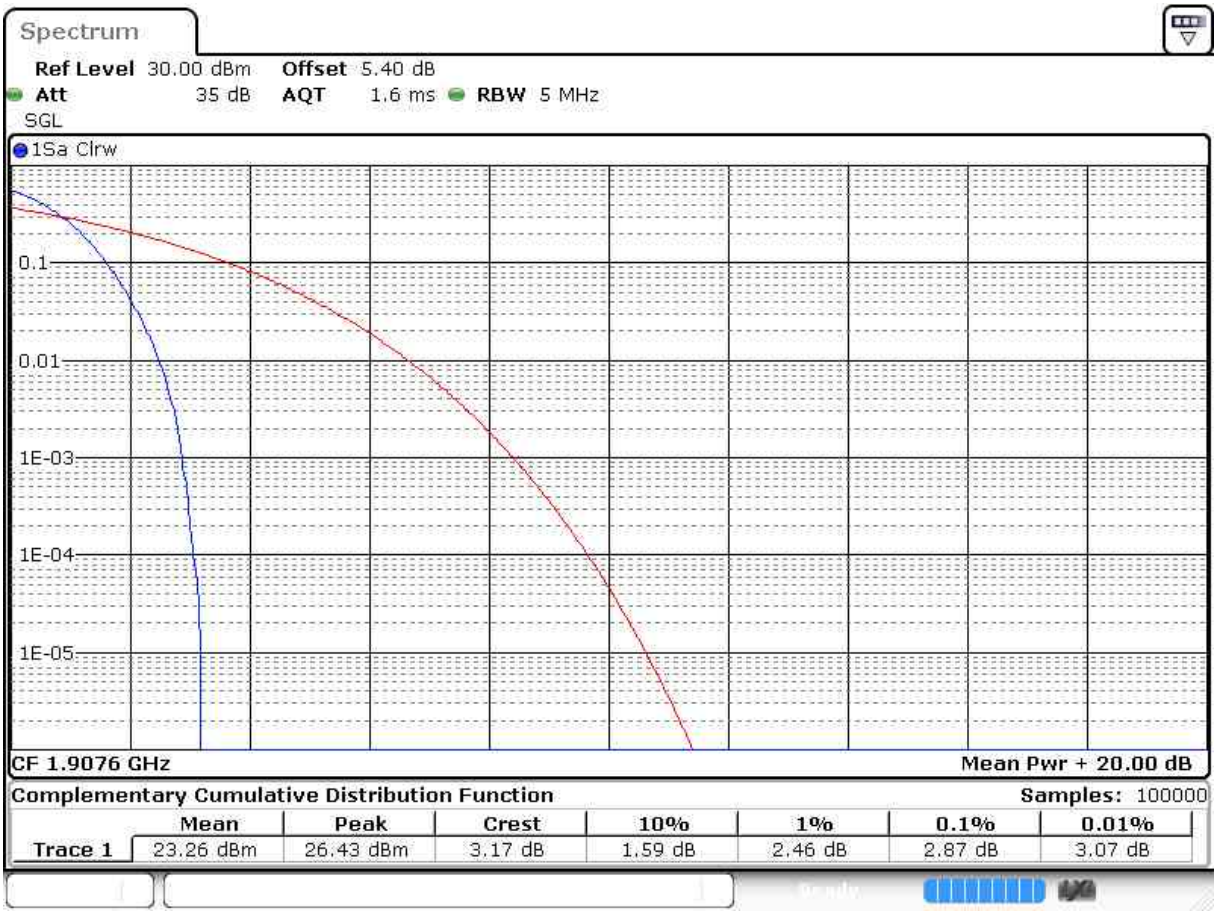
Band II_9538



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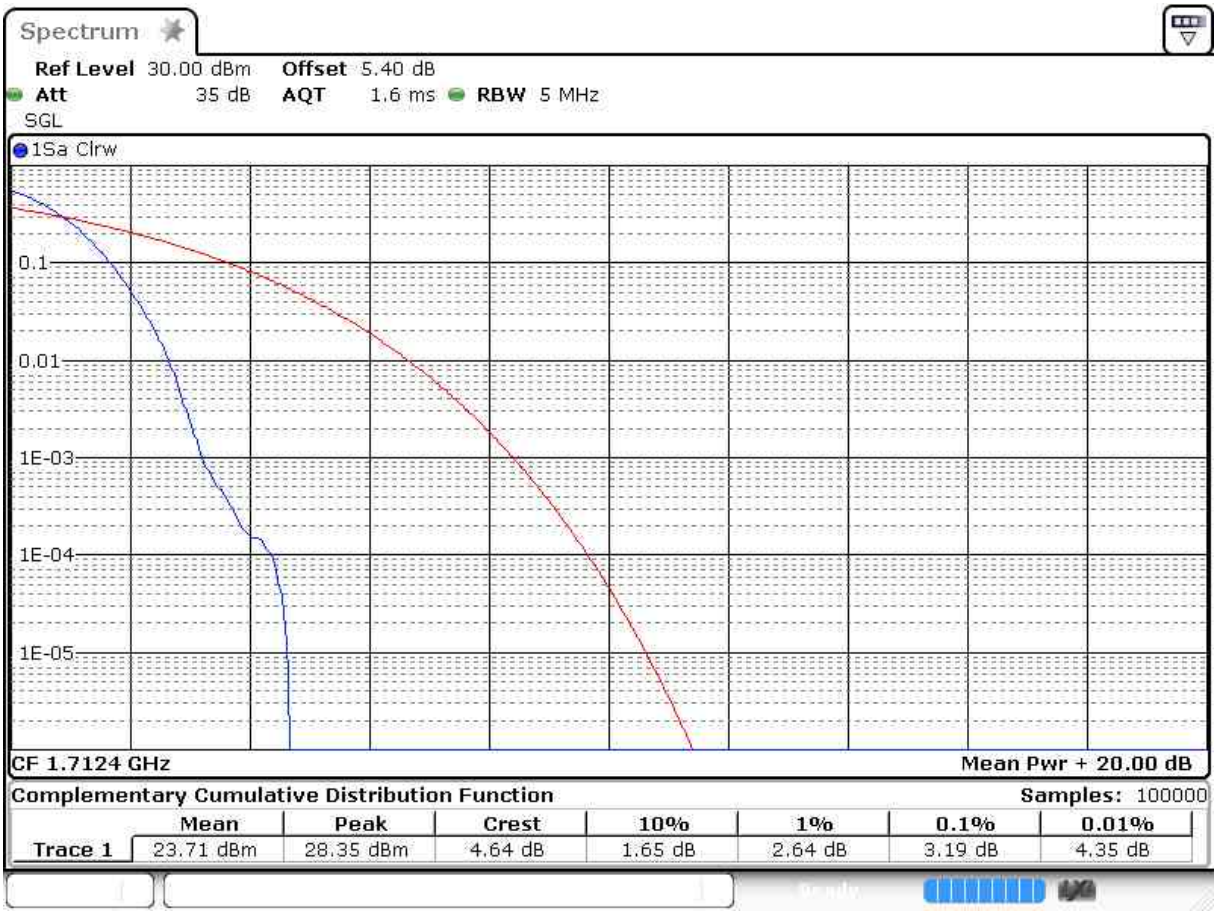

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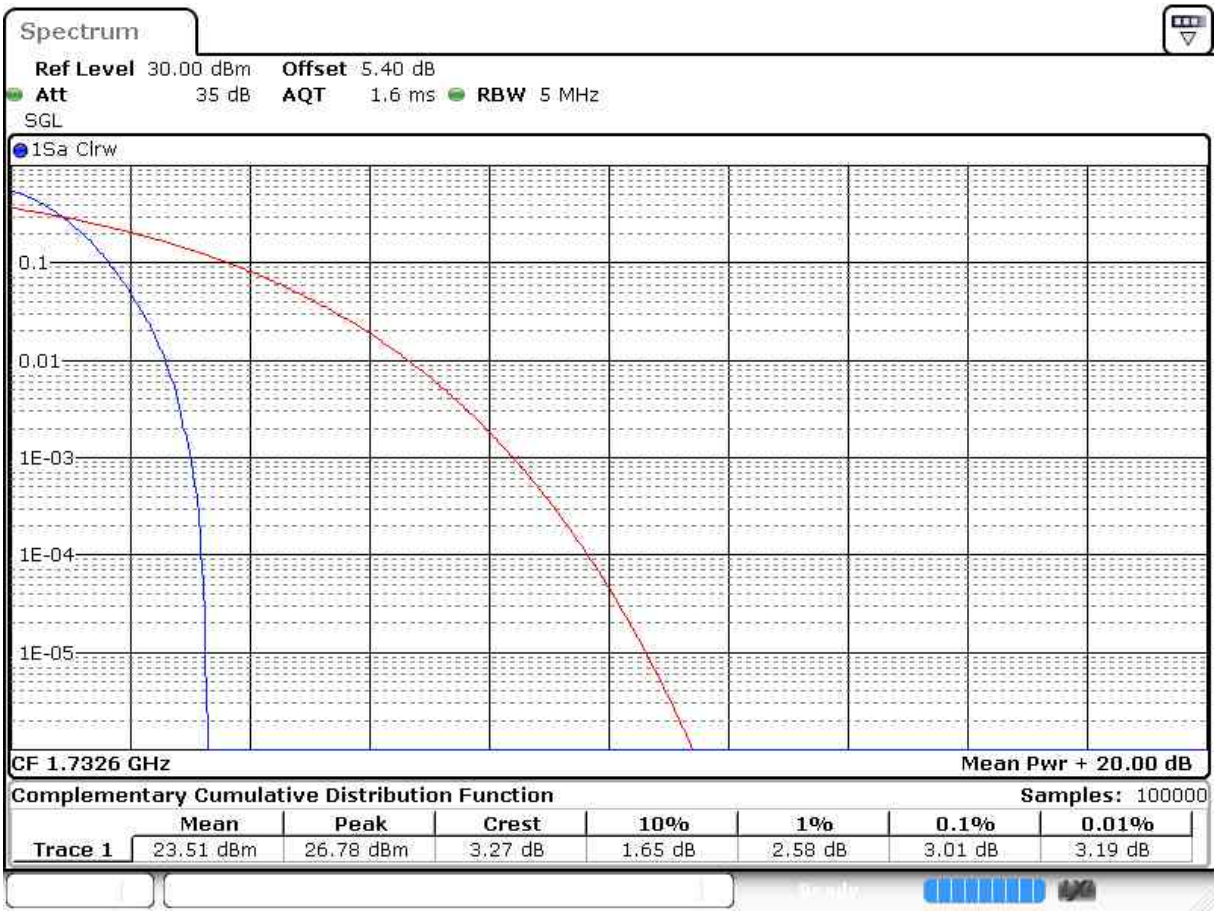

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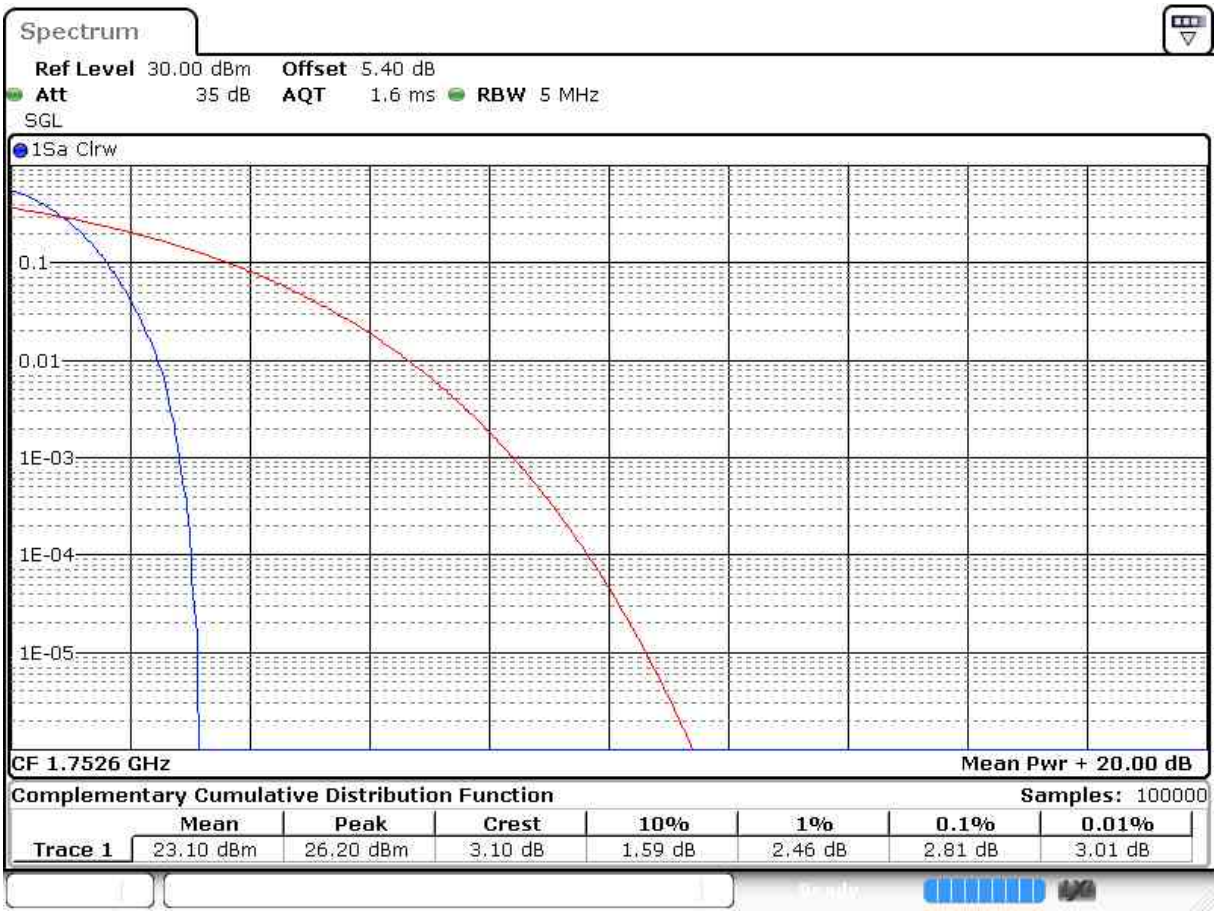
Band IV_1513



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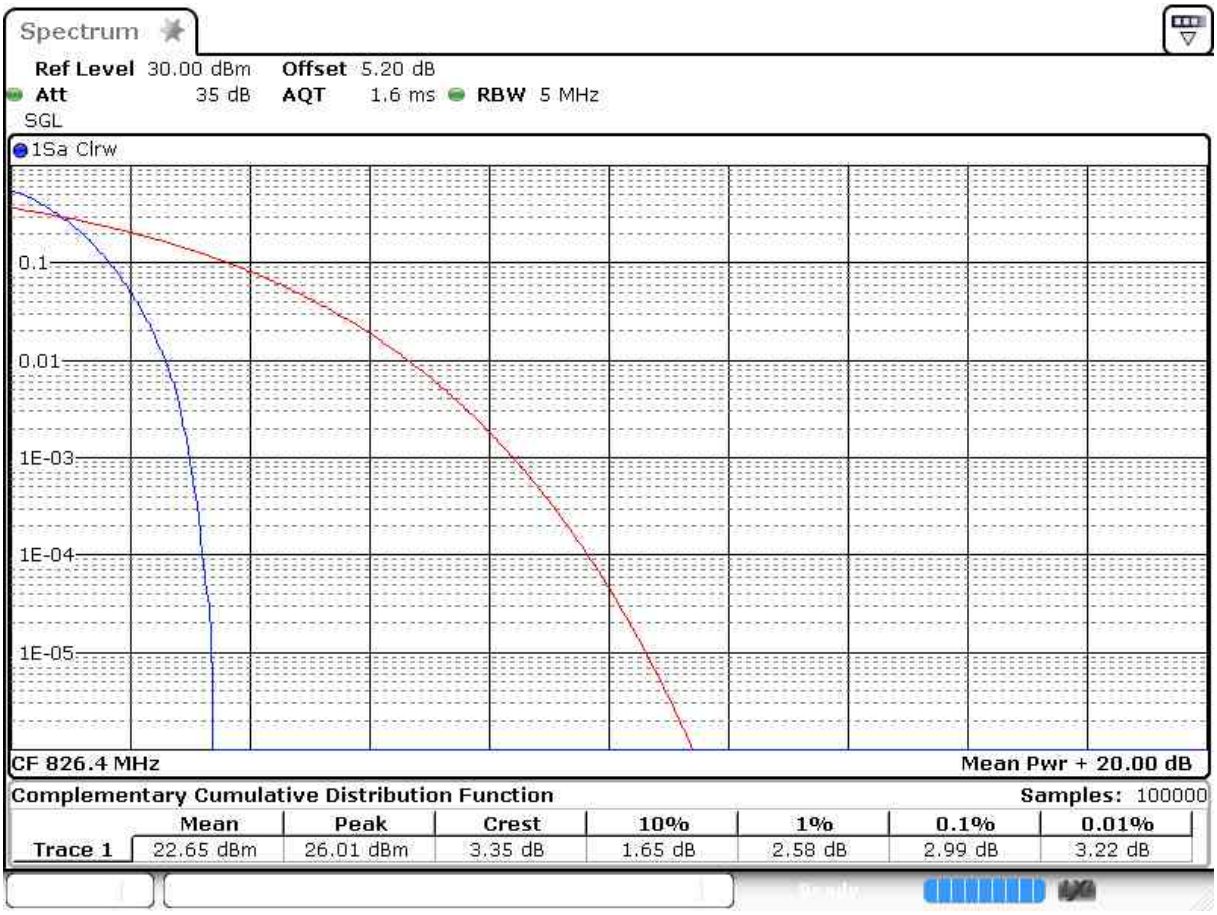
Band V_4132



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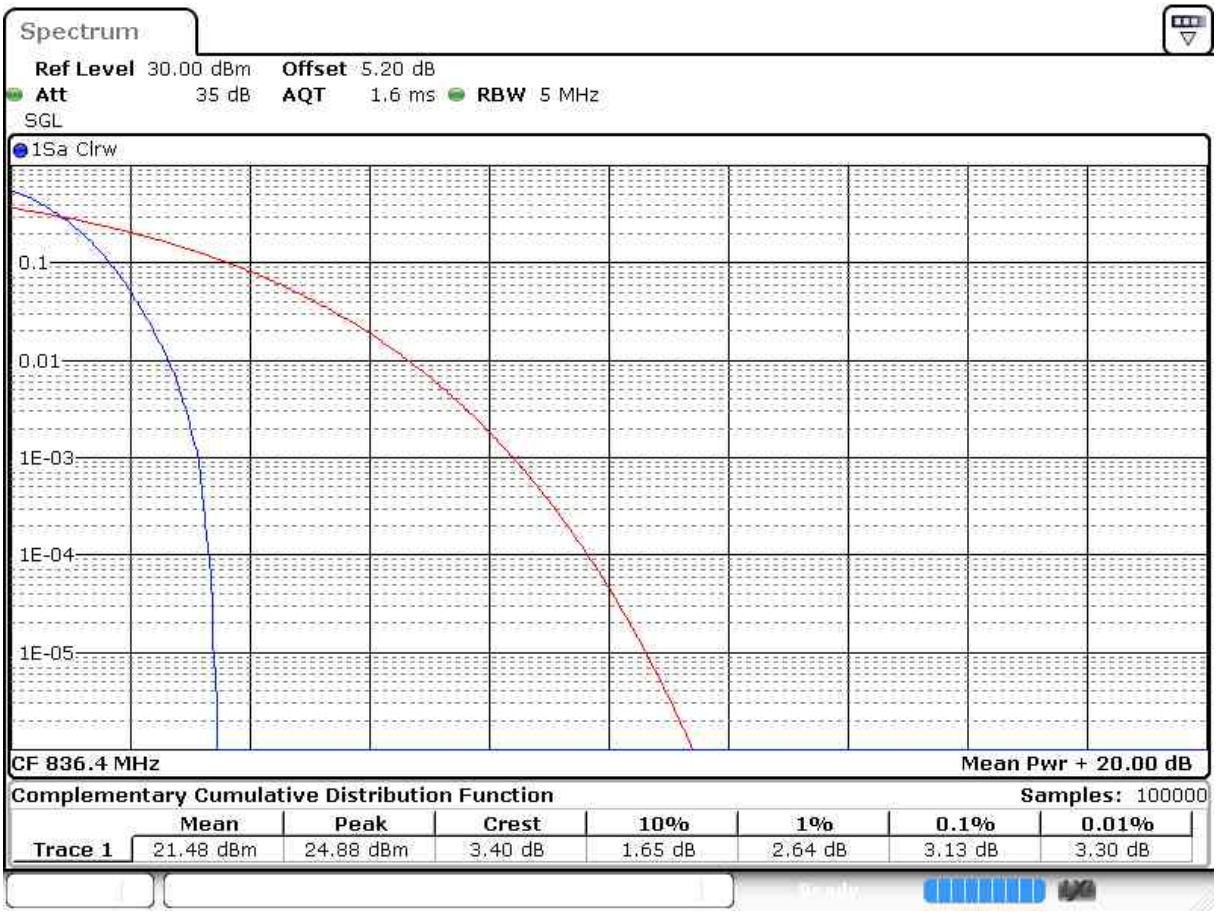

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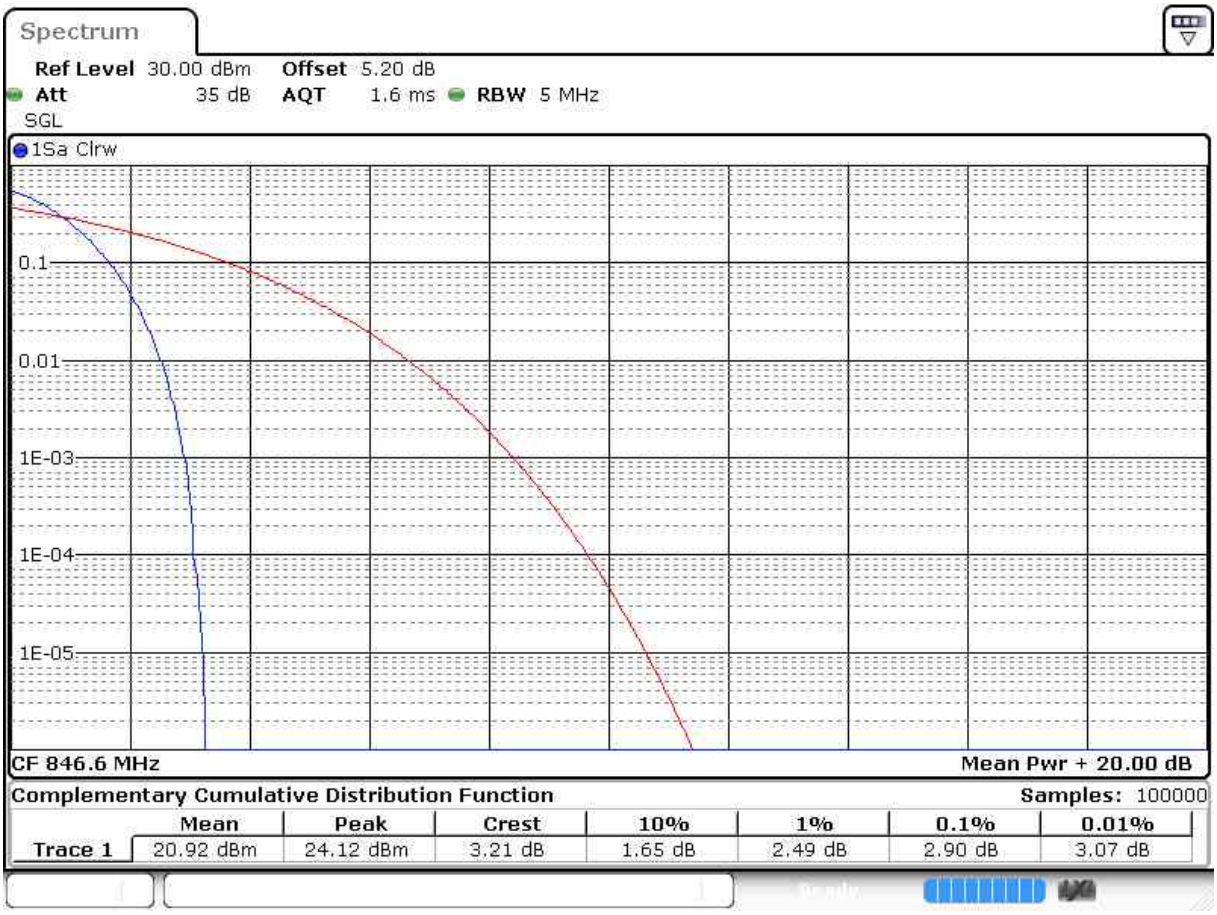
Band V_4233



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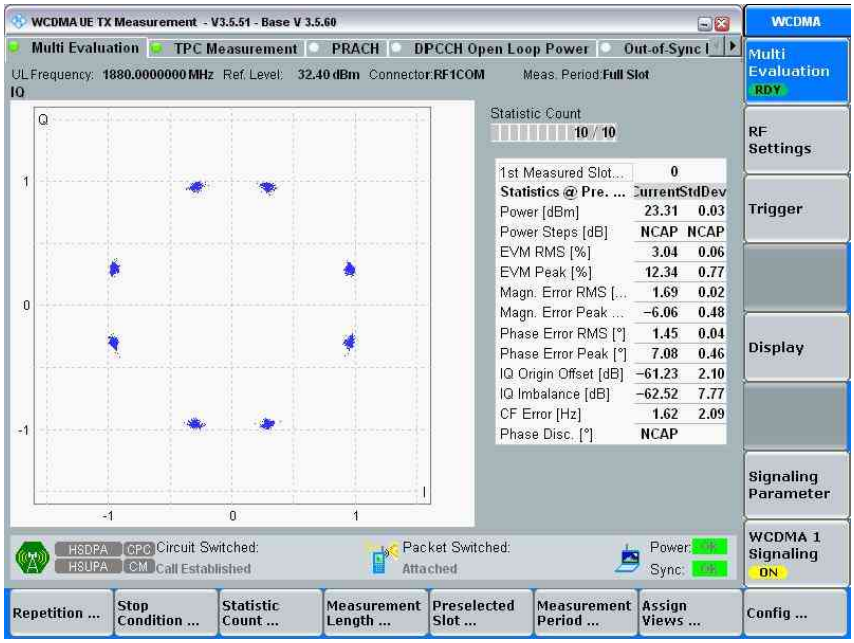
3. Modulation Characteristics

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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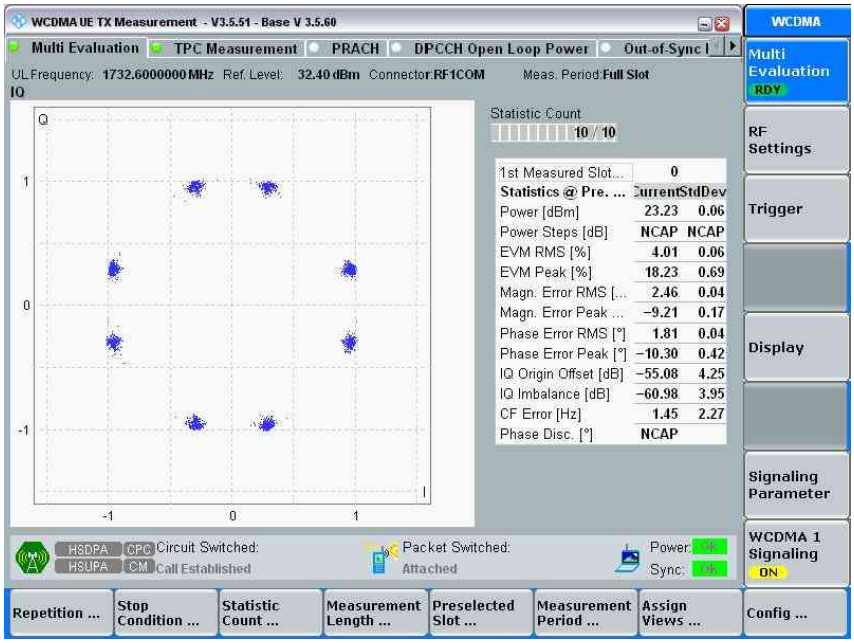
3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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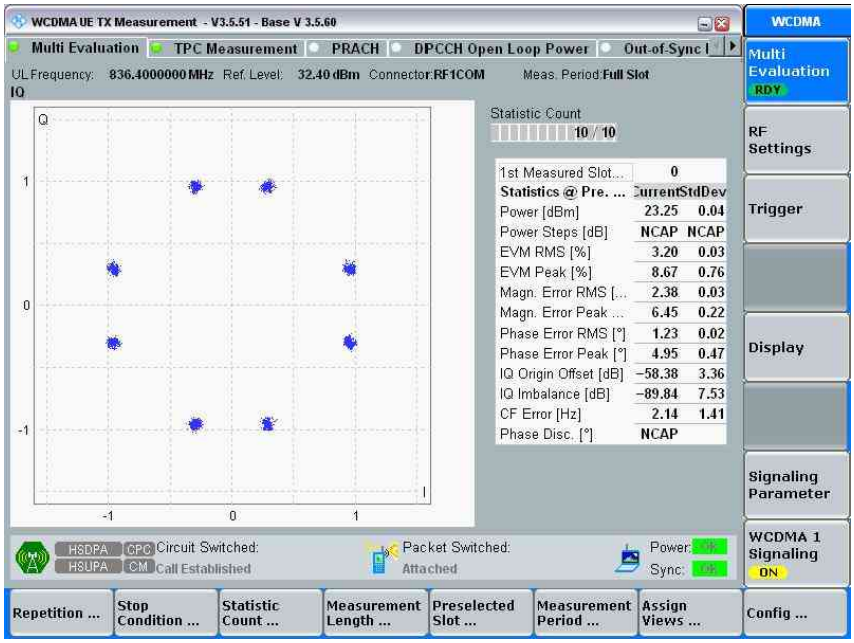
3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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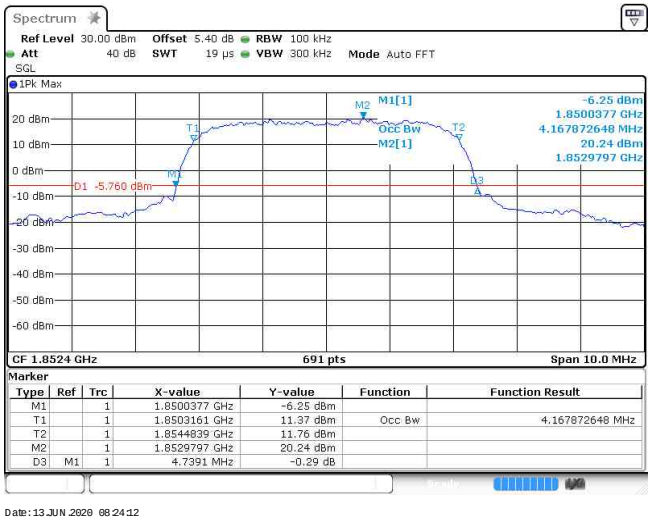
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4739	---	PASS
Band II	9400	4167.9	4754	---	PASS
Band II	9538	4153.4	4754	---	PASS
Band IV	1312	4182.3	4754	---	PASS
Band IV	1413	4167.9	4754	---	PASS
Band IV	1513	4167.9	4754	---	PASS
Band V	4132	4153.4	4725	---	PASS
Band V	4182	4153.4	4725	---	PASS
Band V	4233	4167.9	4739	---	PASS

4.2. Test Plots



Band II_9262

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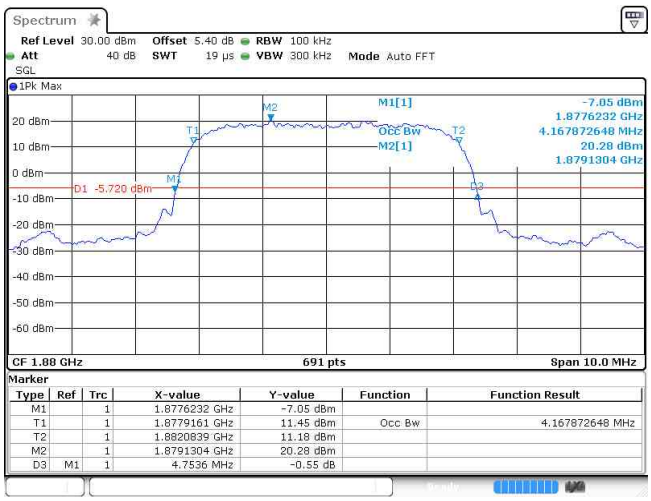
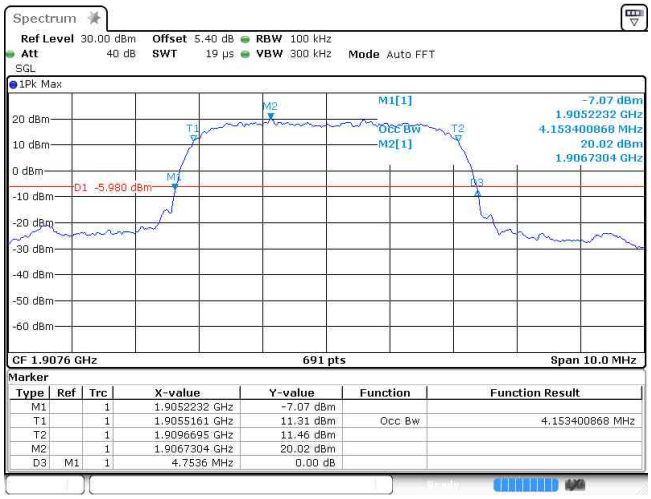


Band II_9400



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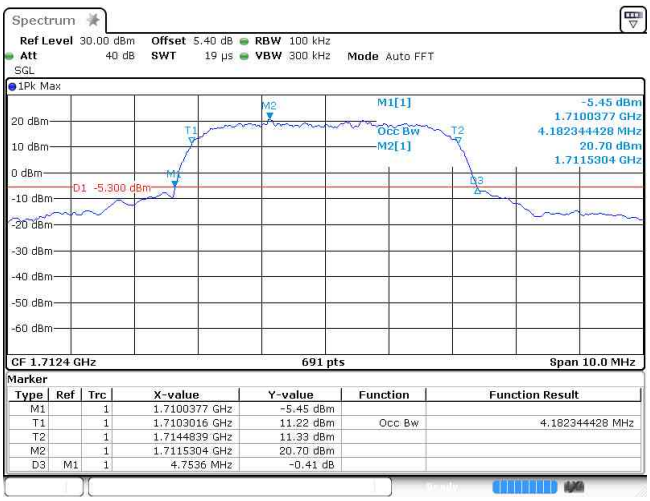
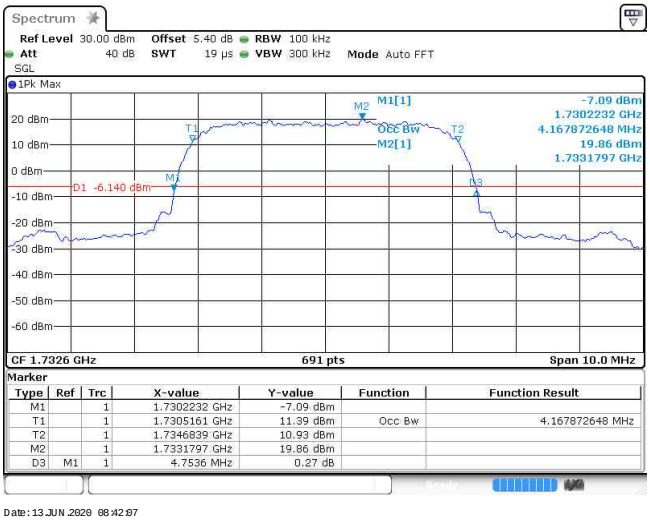


Band IV_1312



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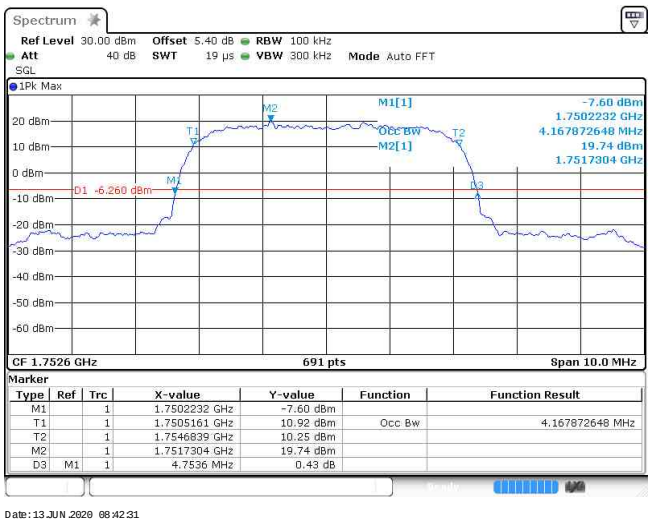
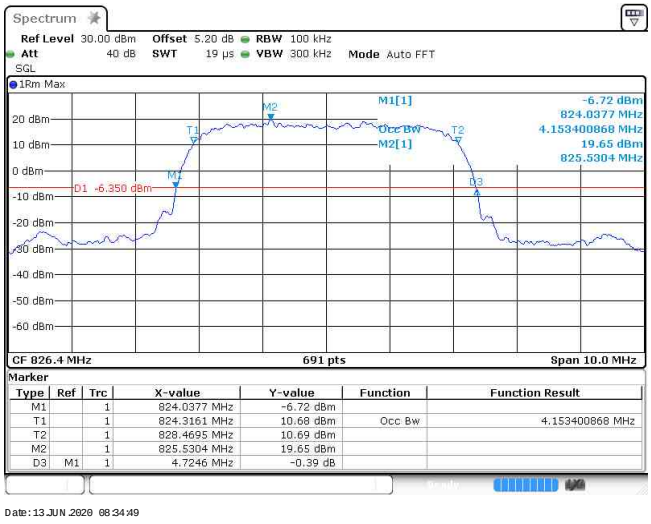


Band IV_1513



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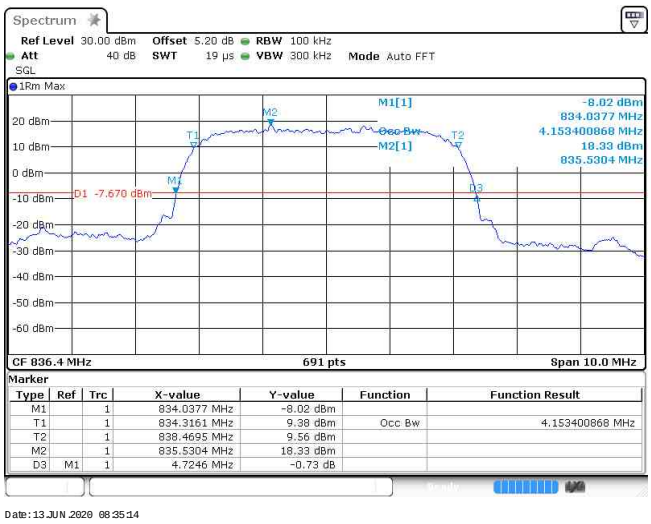
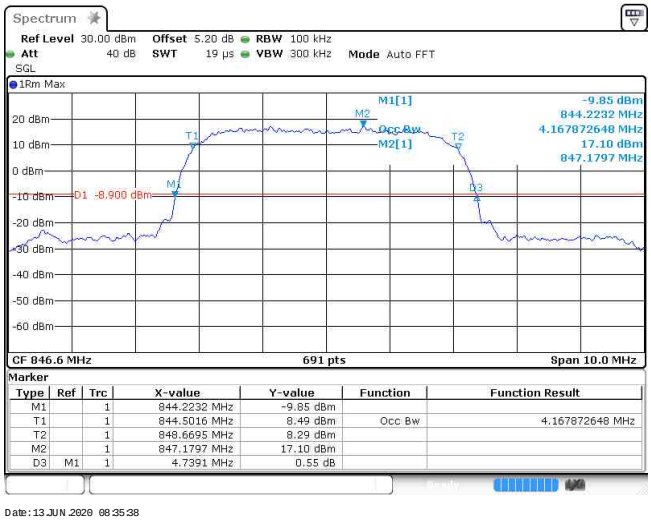


Band V_4182



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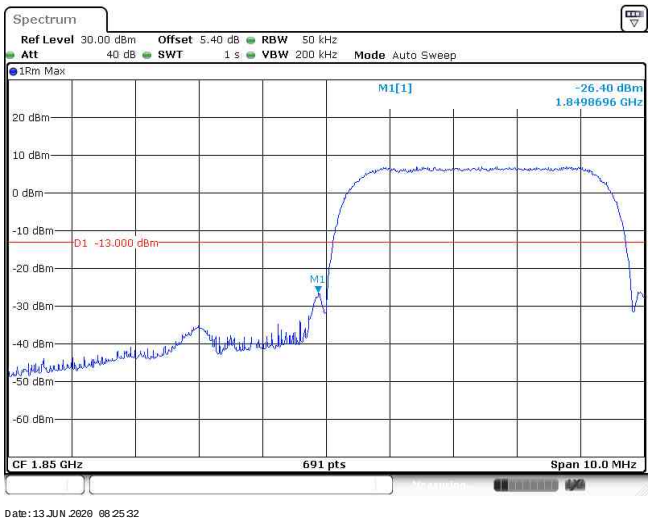
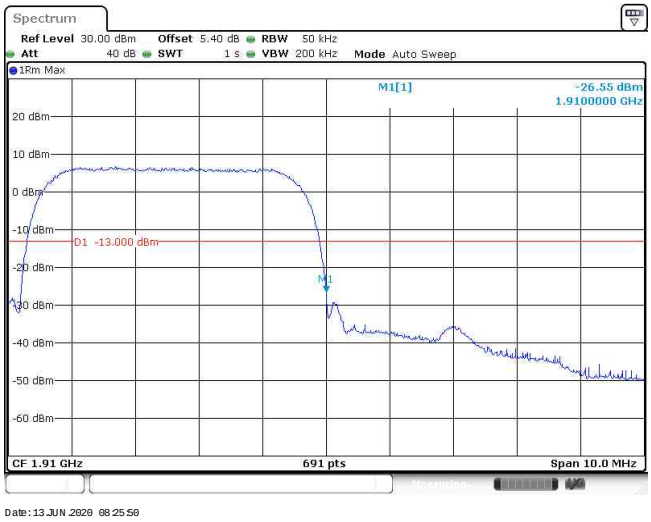
5. Band Edge Compliance

5.1. Test Plots



Band II_9262



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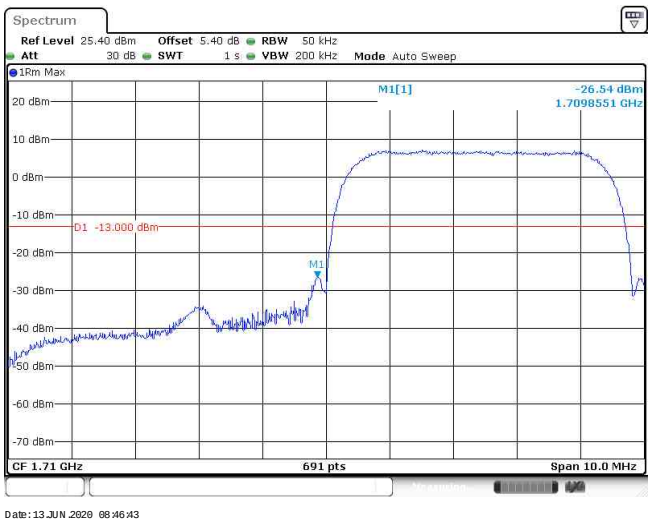
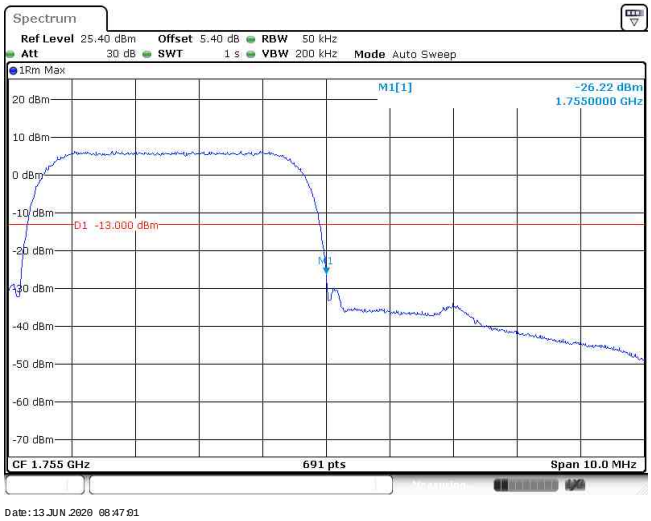


Band IV_1312



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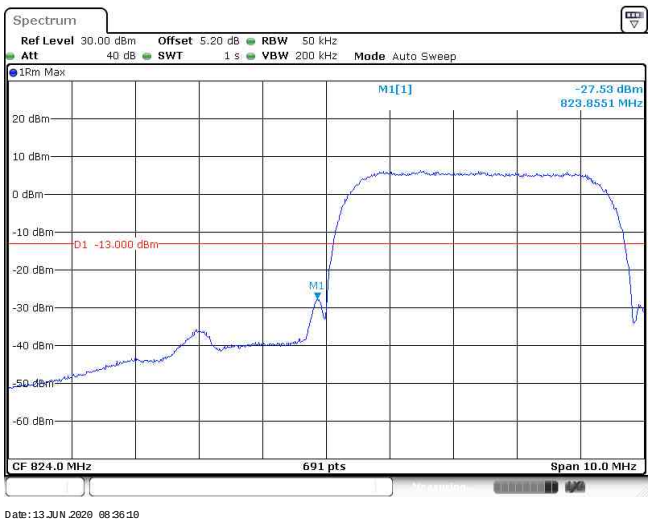

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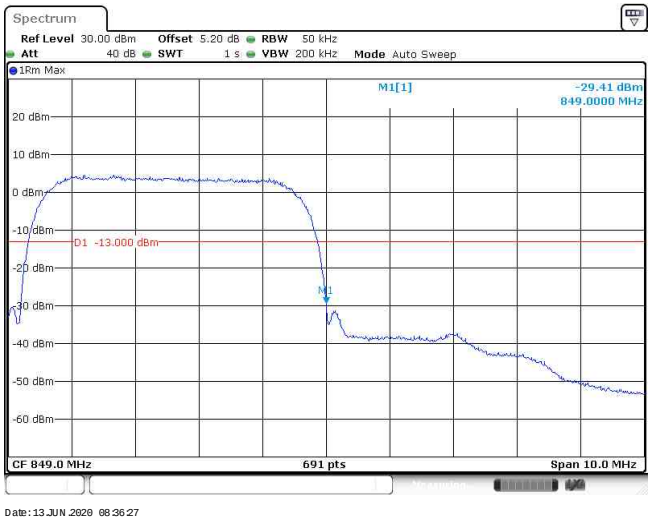

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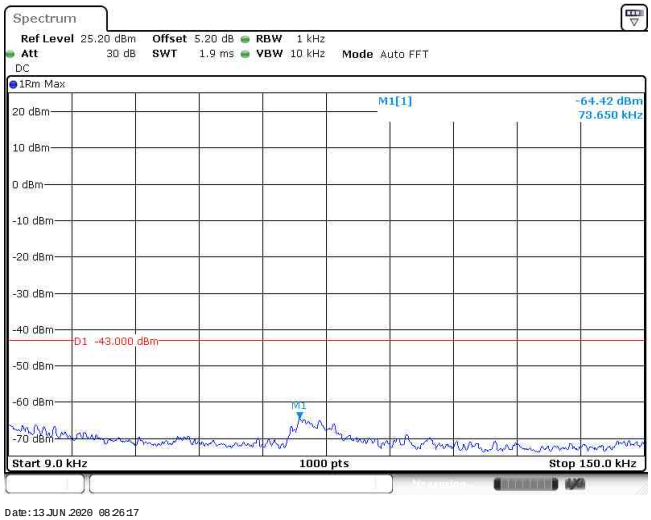
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < 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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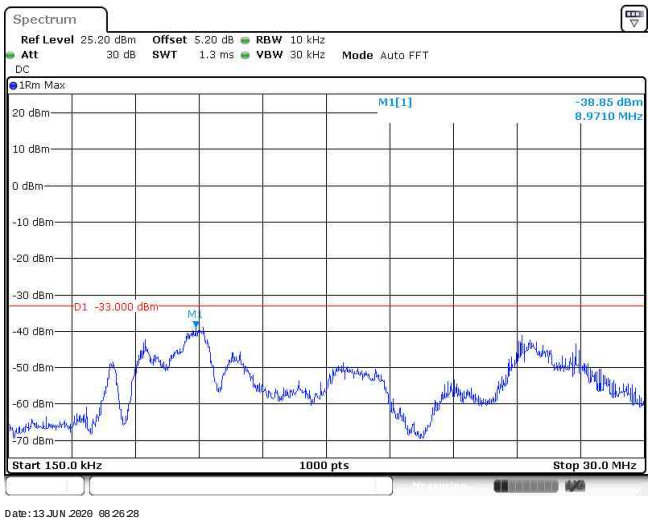

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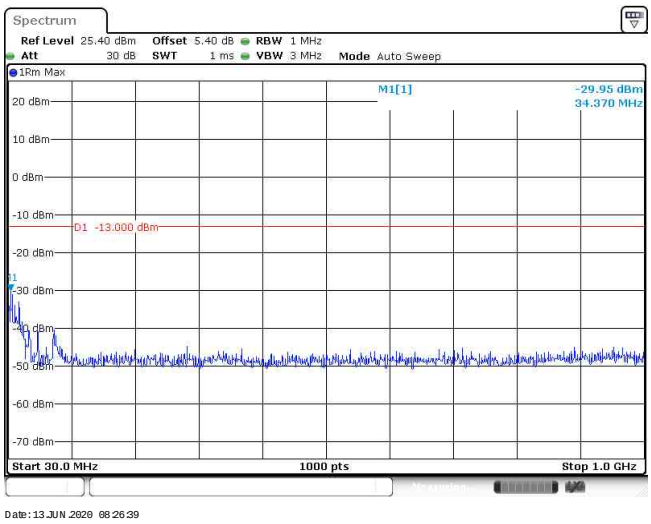

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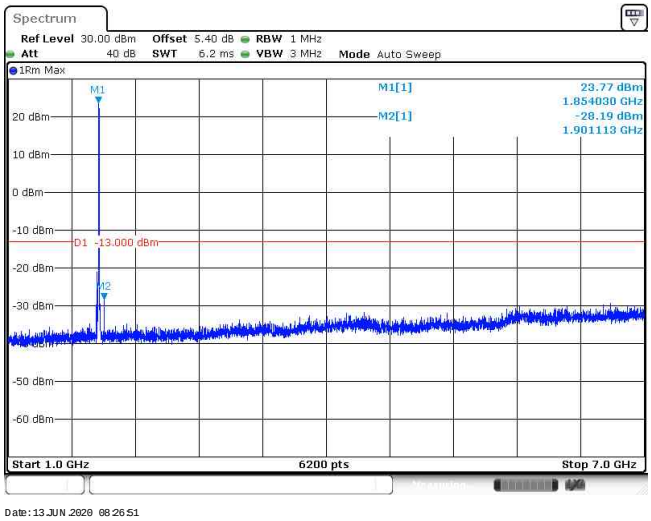

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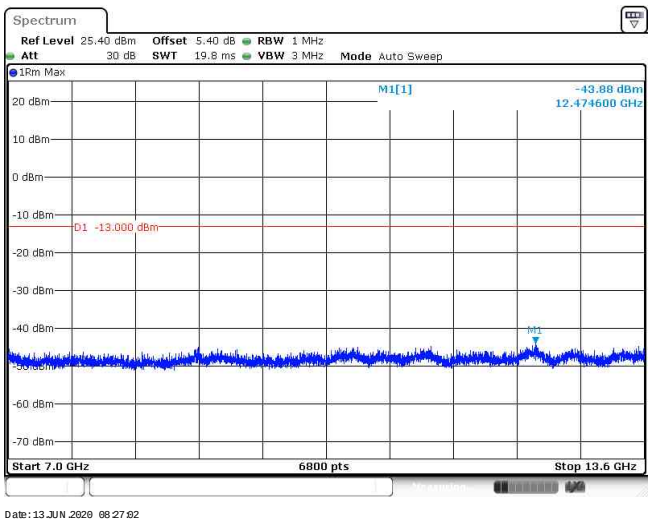

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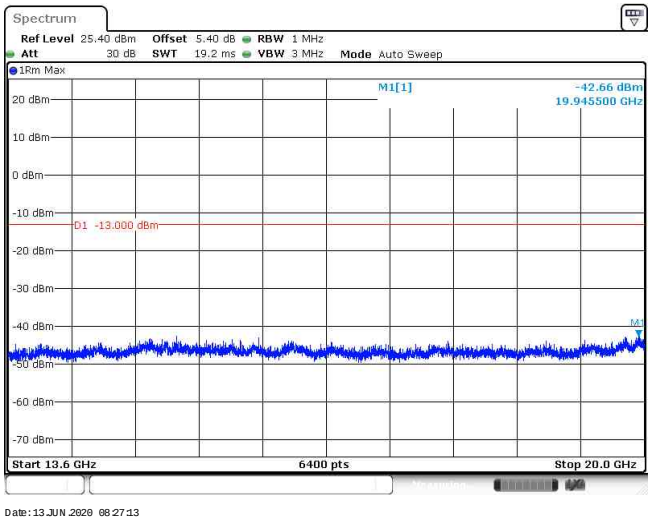

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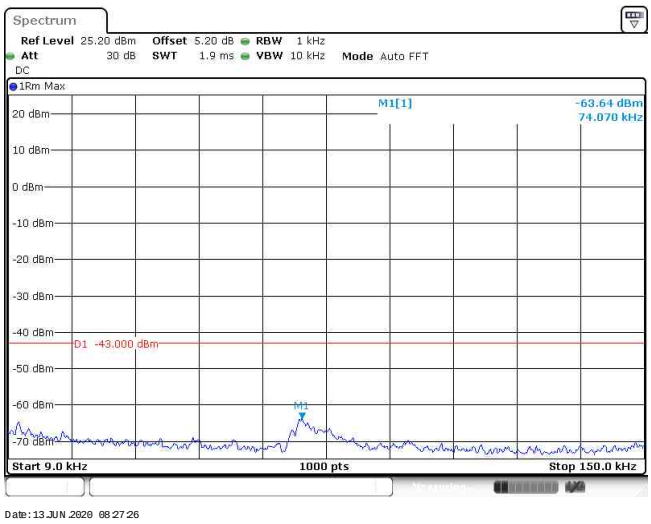

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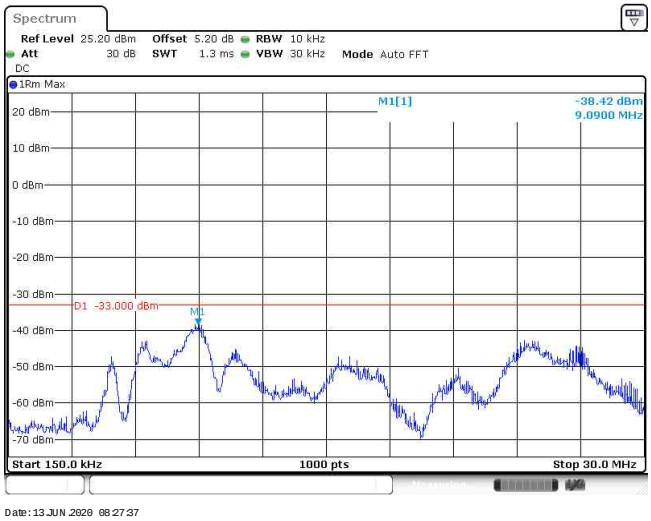

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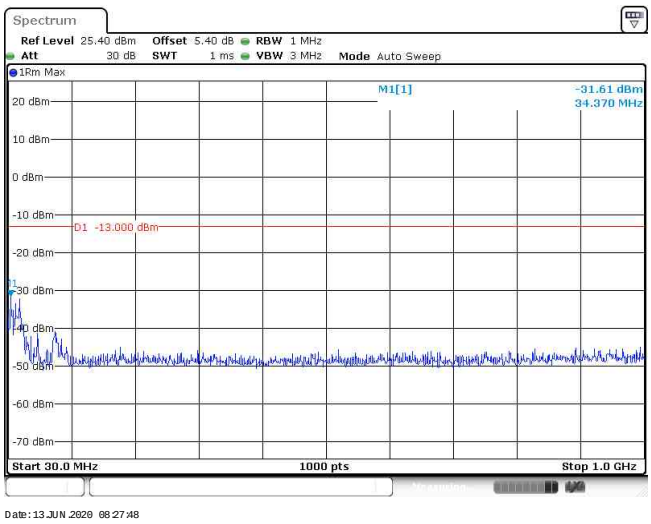

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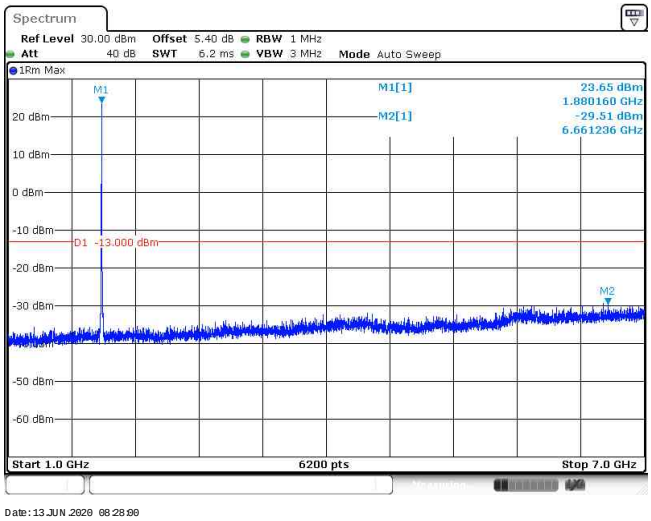

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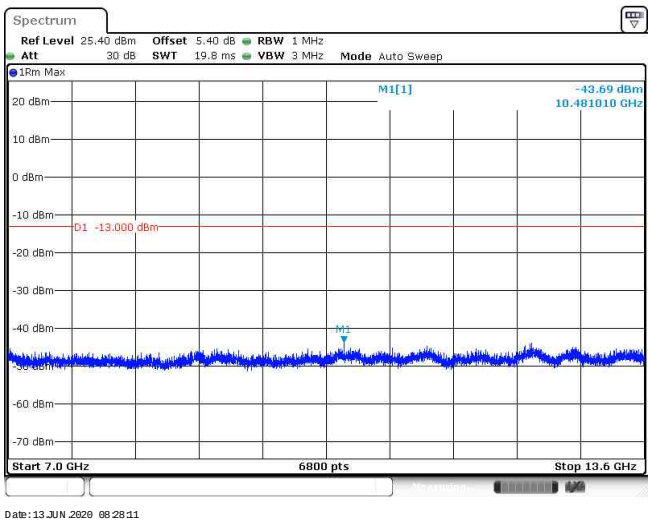

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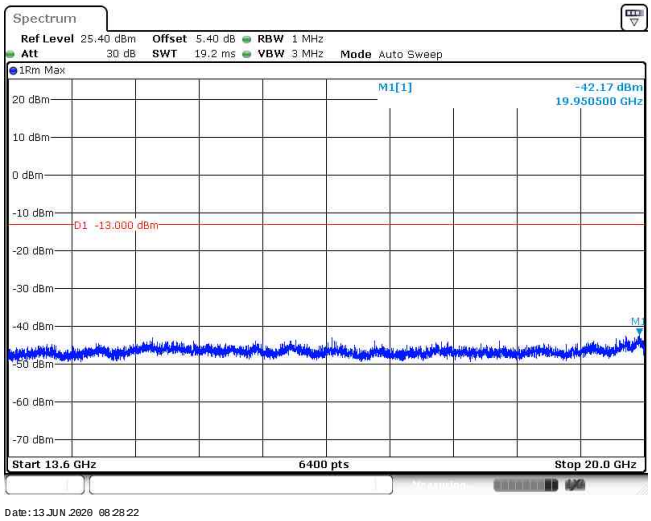

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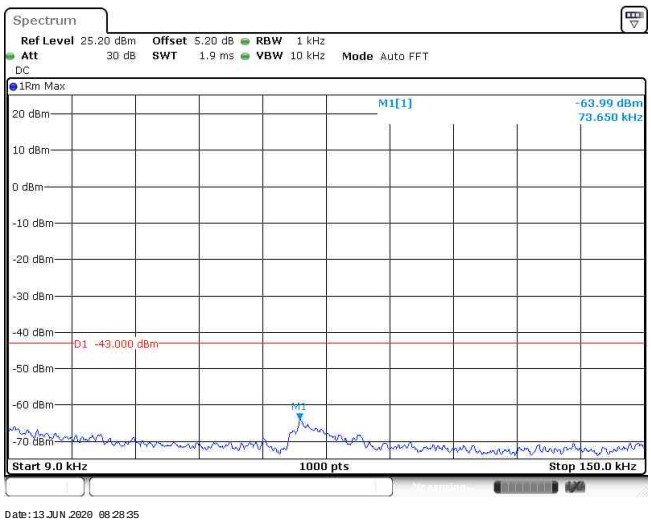

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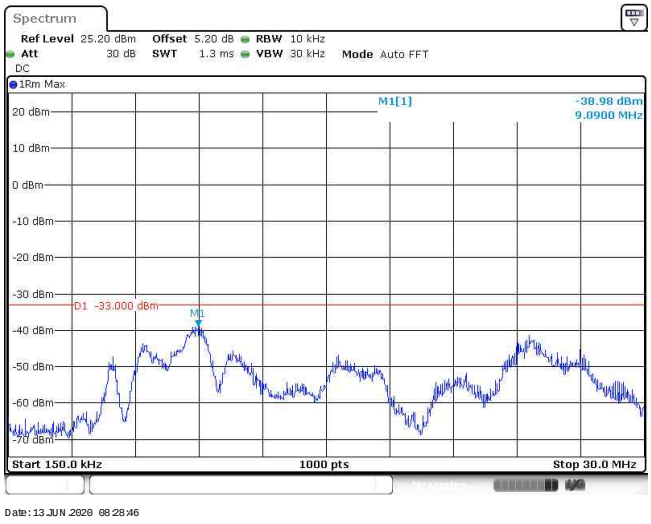

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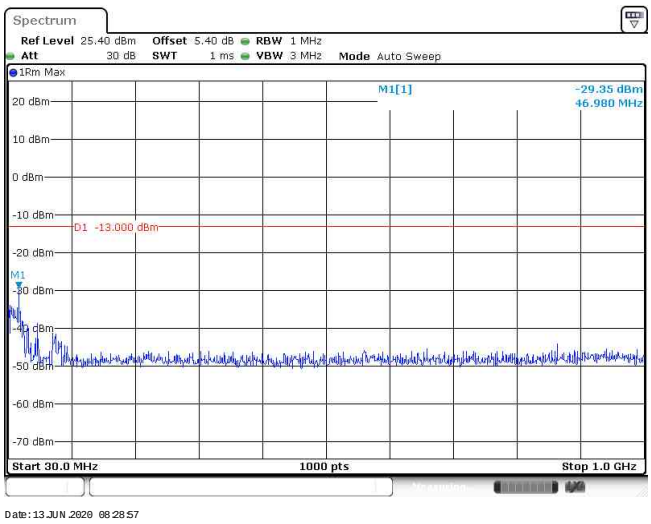

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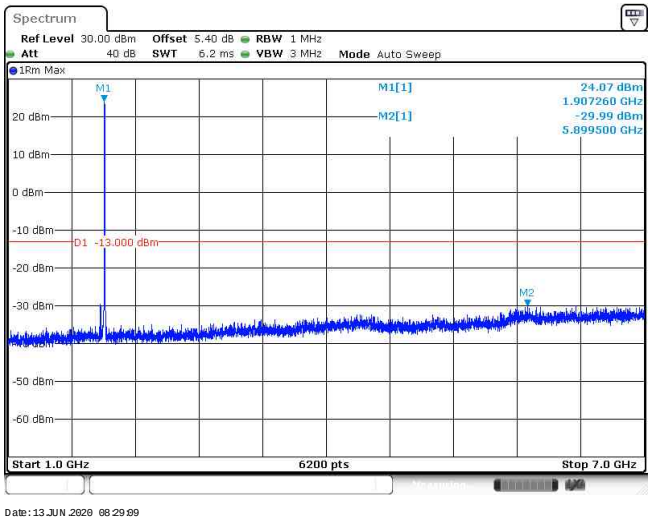

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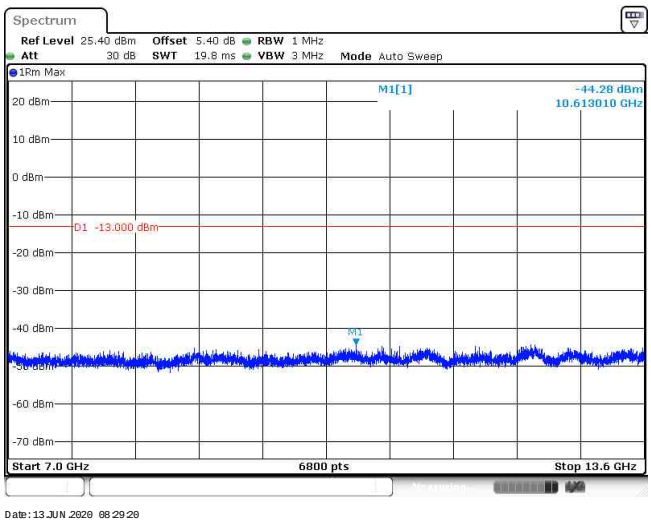

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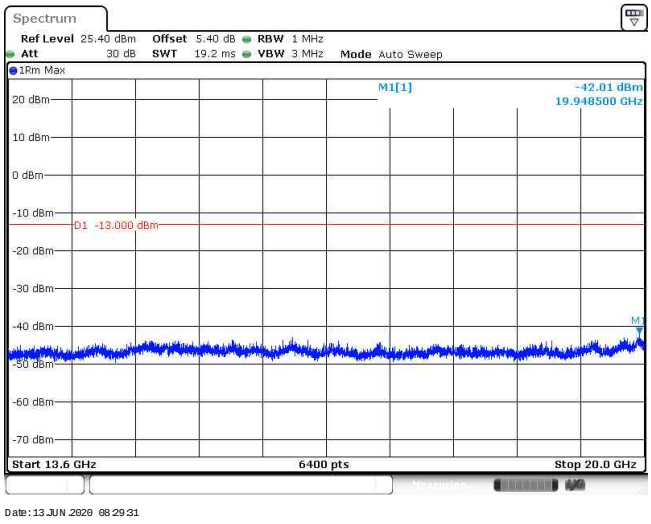

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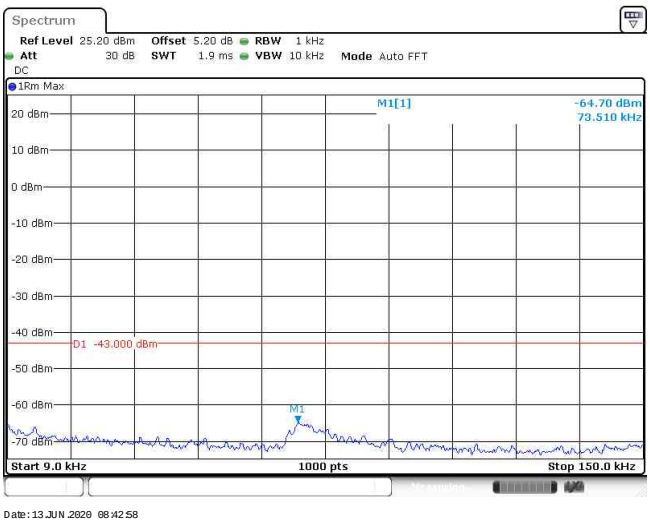

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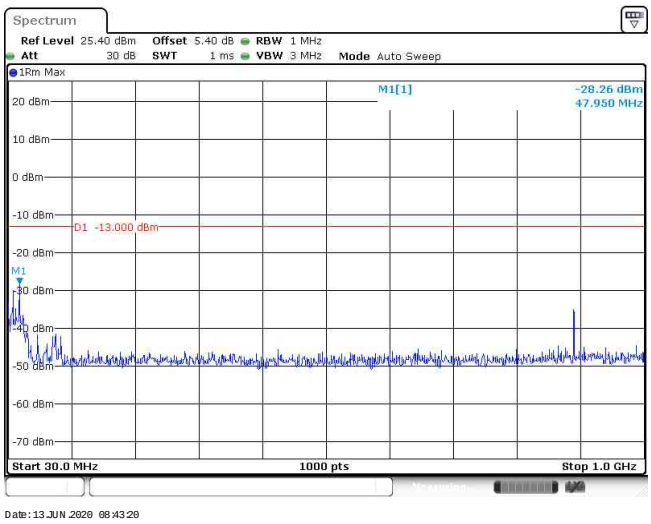

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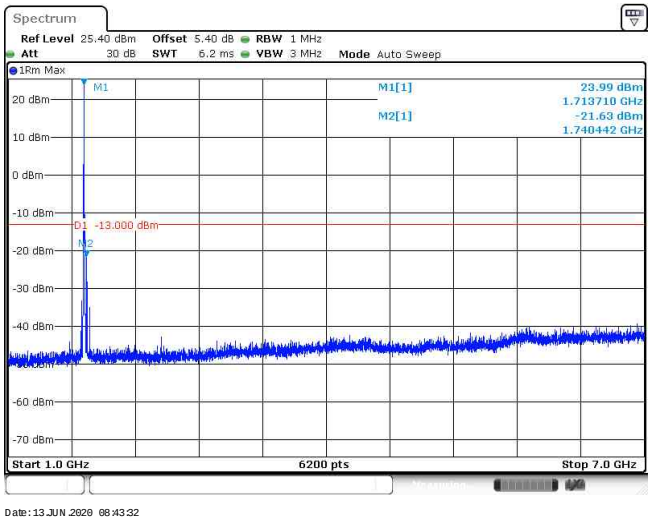

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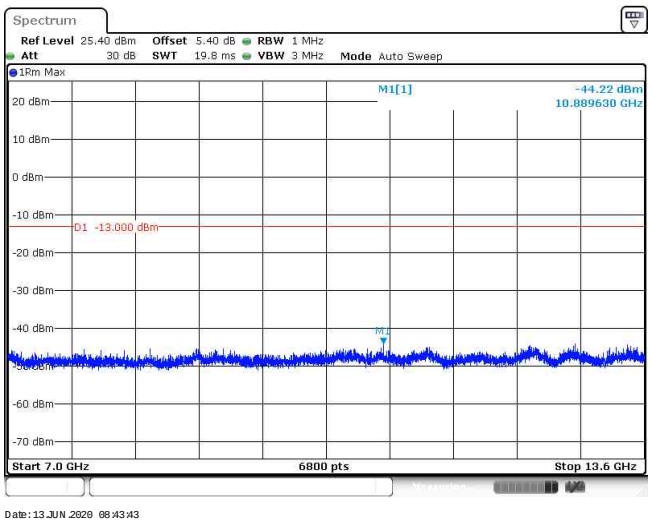

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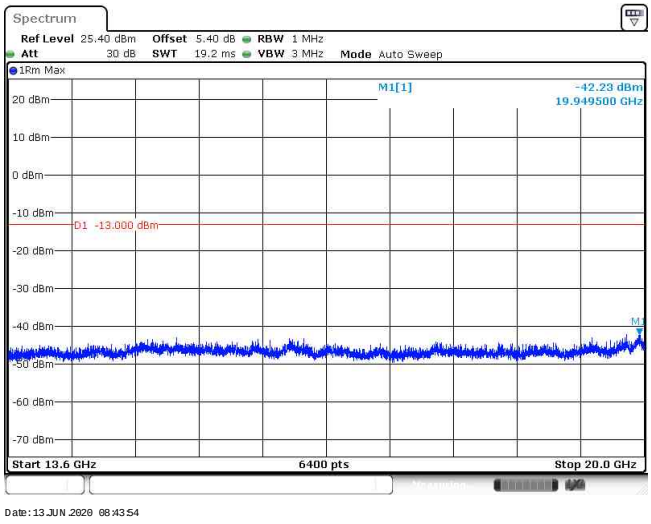

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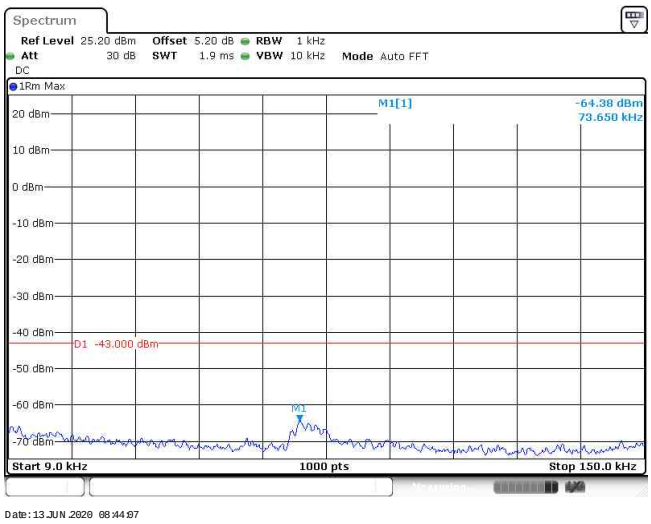

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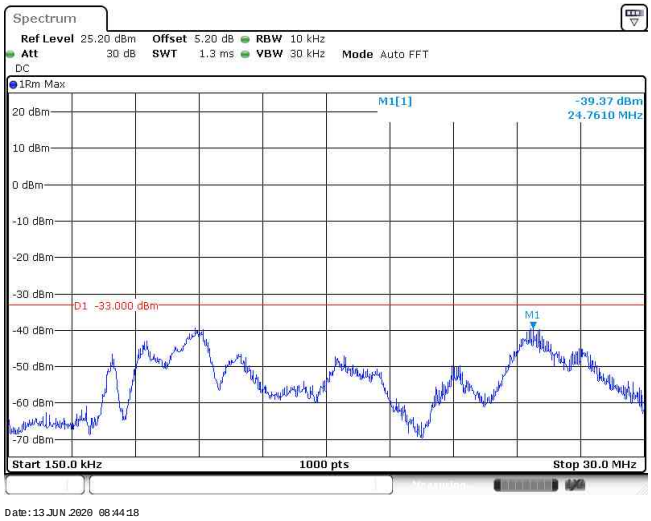

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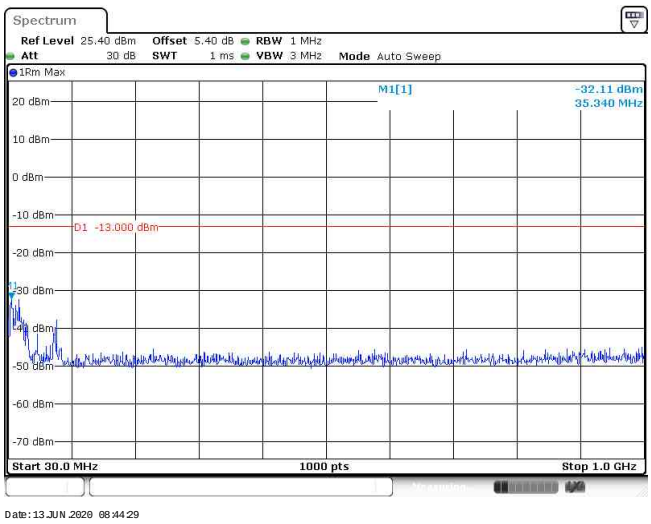

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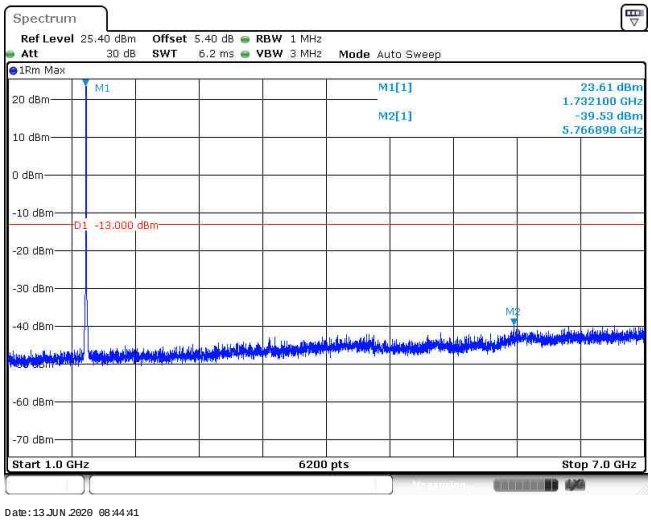

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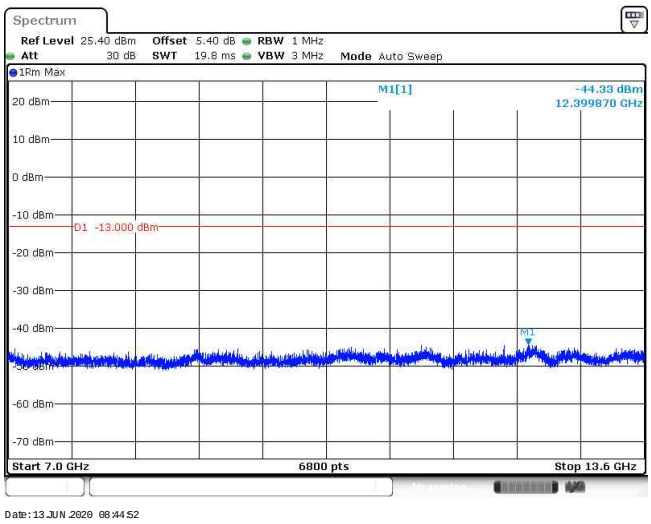

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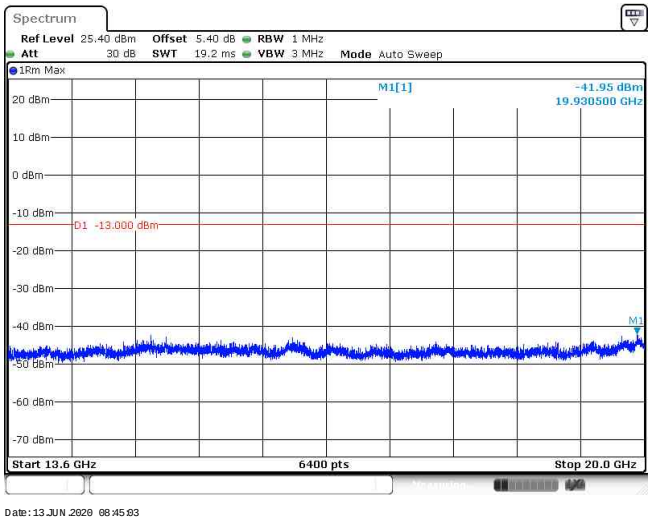

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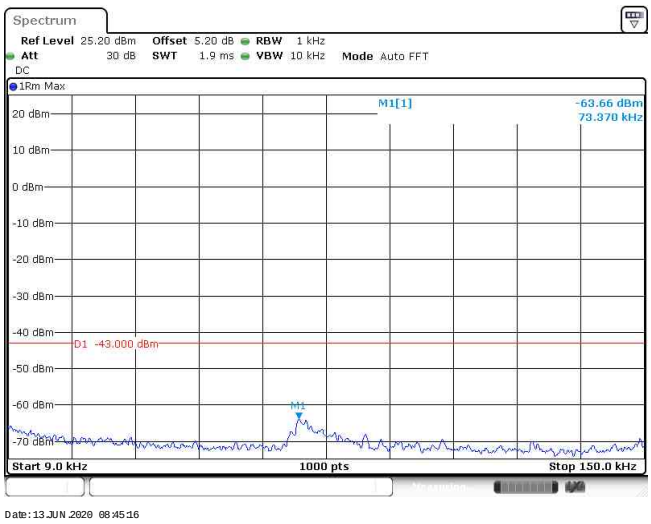

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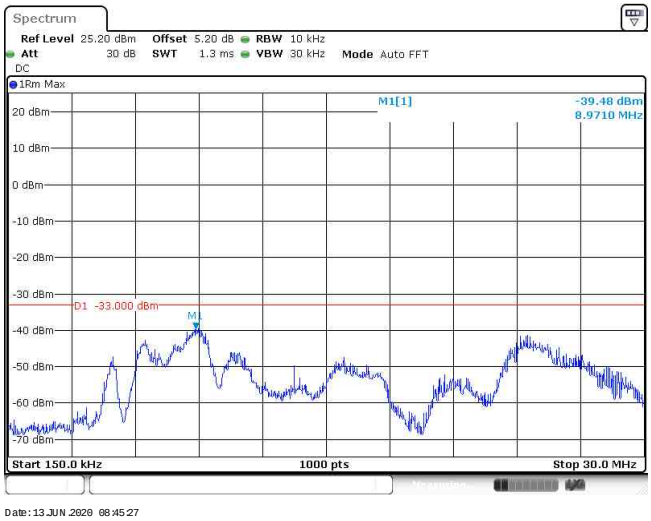

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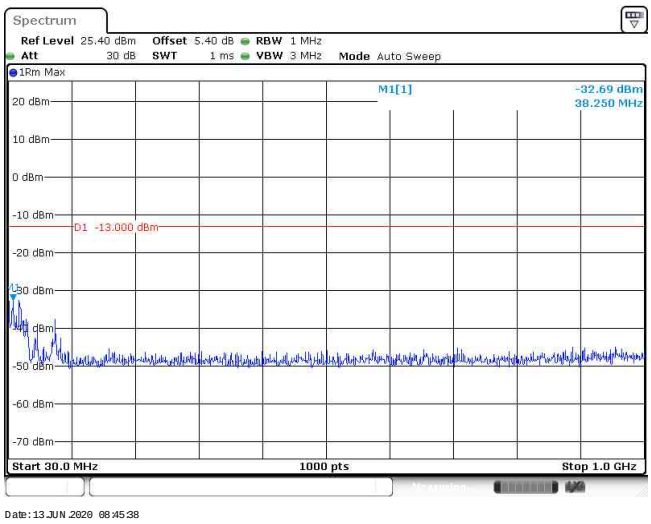

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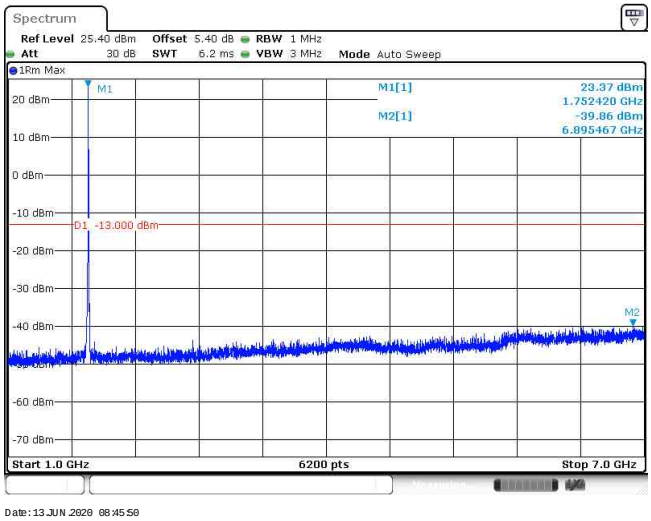

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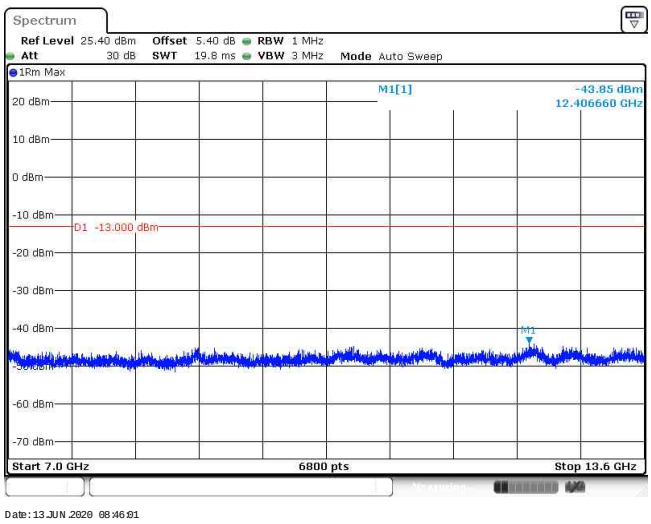

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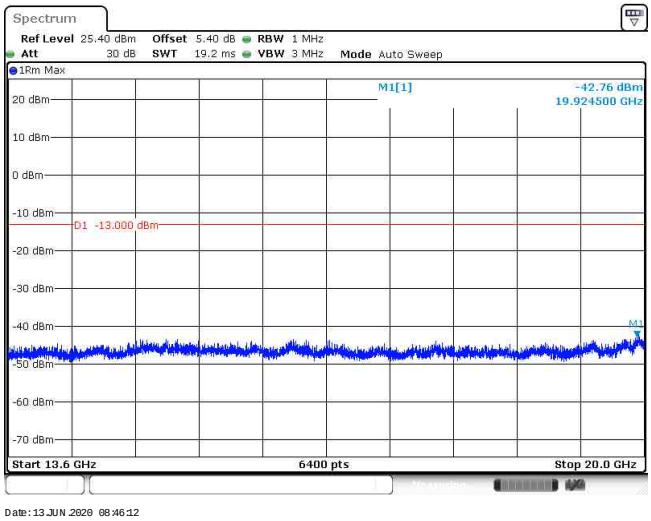

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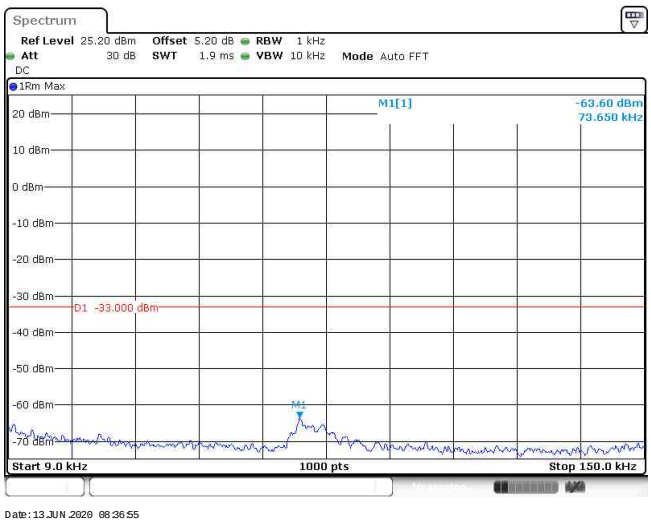

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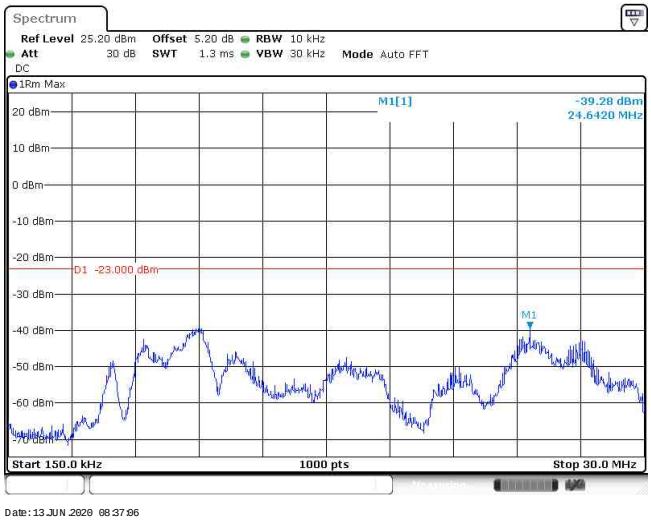

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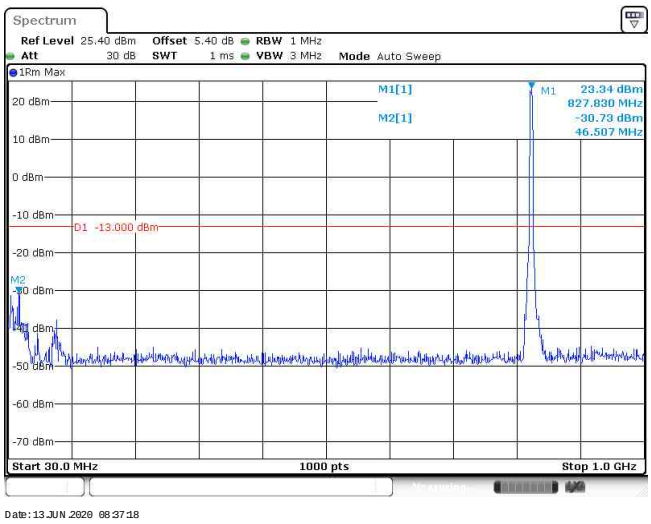

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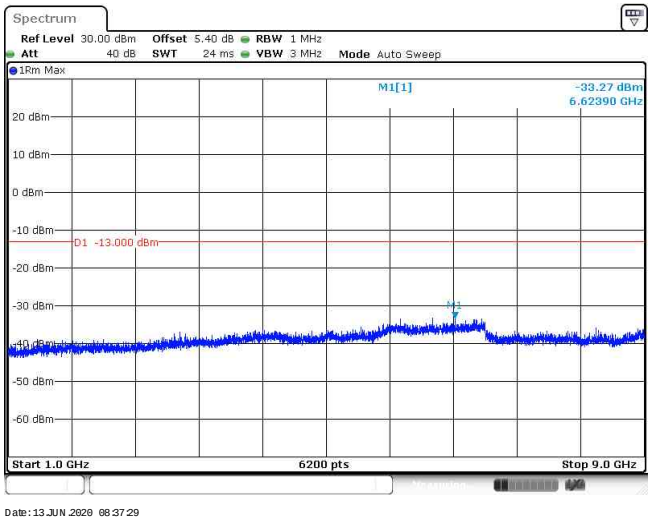

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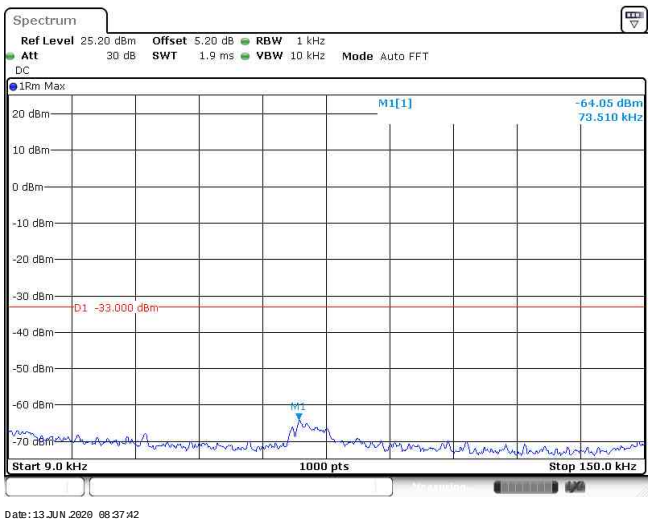

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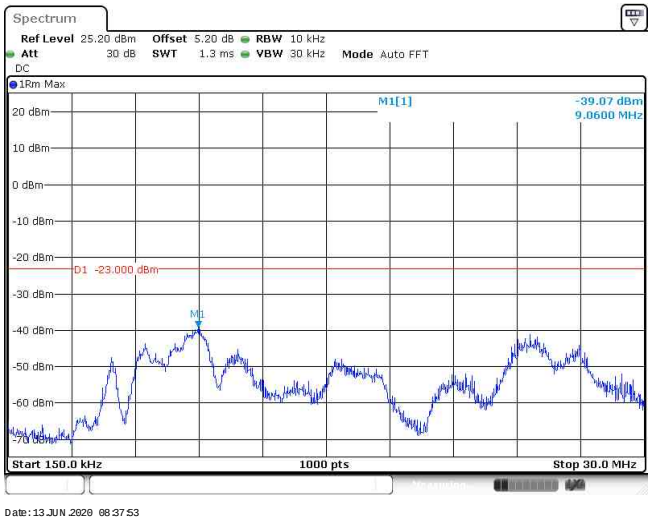

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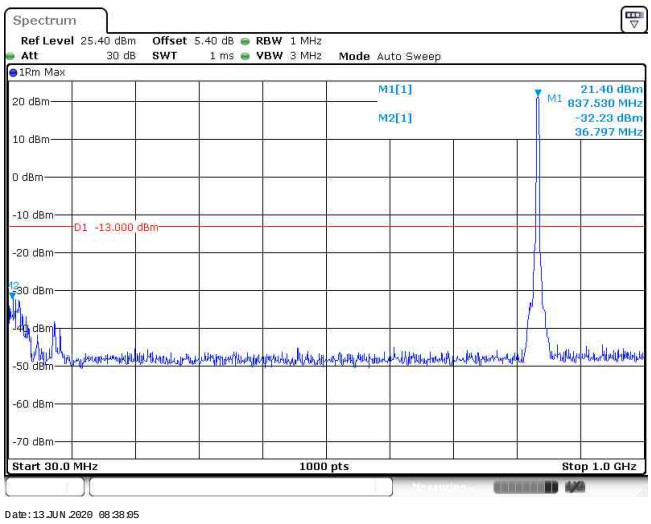

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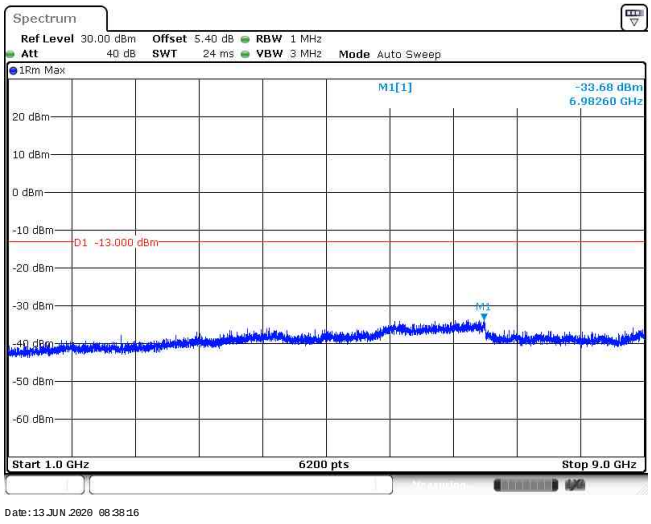

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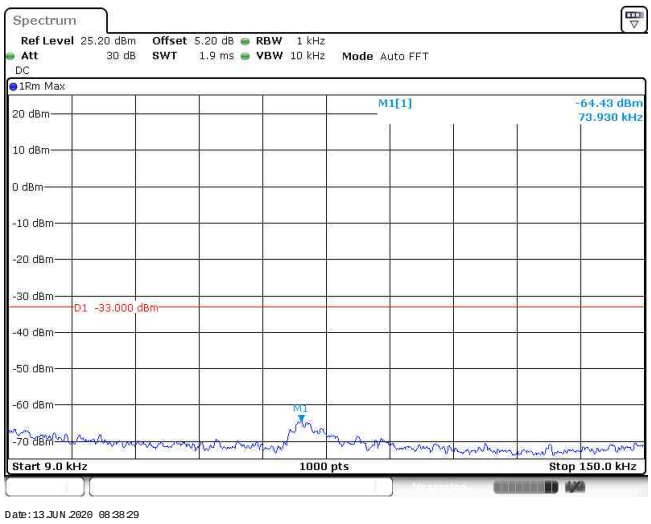

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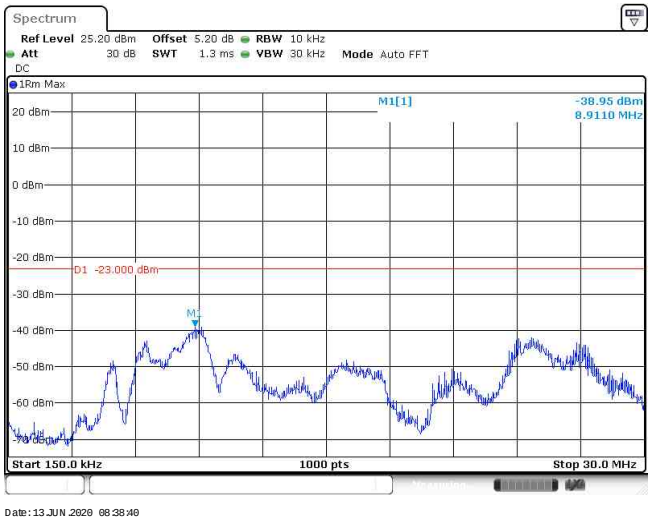

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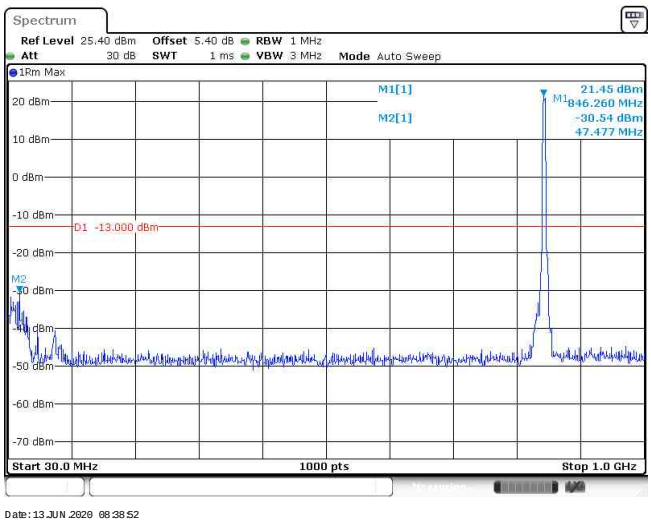

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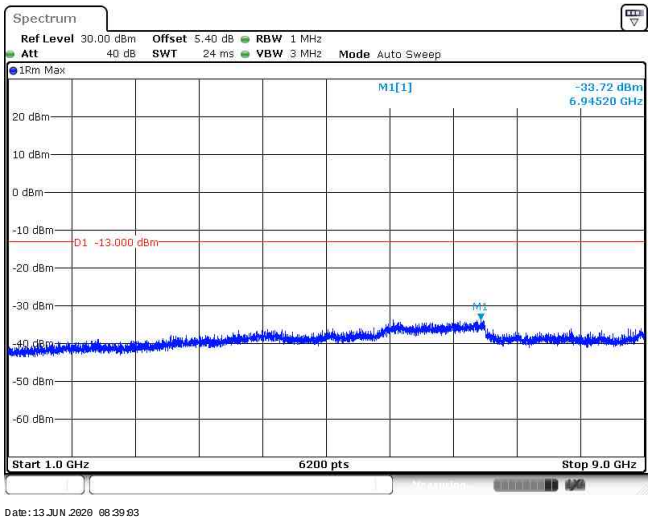

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7. Field Strength of Spurious Radiation

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)	Polarization
50.5650	-71.70	-13.00	58.70	Vertical
111.1931	-65.13	-13.00	52.13	Vertical
399.3945	-67.05	-13.00	54.05	Vertical
2711.1422	-36.77	-13.00	23.77	Vertical
8743.6915	-55.51	-13.00	42.51	Vertical
17991.9997	-40.27	-13.00	27.27	Vertical
40.3310	-63.23	-13.00	50.23	Horizontal
241.8586	-68.48	-13.00	55.48	Horizontal
557.5124	-63.45	-13.00	50.45	Horizontal
2701.1402	-35.43	-13.00	22.43	Horizontal
3703.0234	-57.80	-13.00	44.80	Horizontal
16384.4461	-43.91	-13.00	30.91	Horizontal

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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.9644	-72.34	-13.00	59.34	Vertical
108.6709	-64.45	-13.00	51.45	Vertical
444.8412	-66.15	-13.00	53.15	Vertical
2697.5395	-36.75	-13.00	23.75	Vertical
7364.6455	-56.40	-13.00	43.40	Vertical
17988.4996	-40.15	-13.00	27.15	Vertical
44.4537	-63.72	-13.00	50.72	Horizontal
232.9341	-67.59	-13.00	54.59	Horizontal
612.1746	-62.93	-13.00	49.93	Horizontal
2703.5407	-35.59	-13.00	22.59	Horizontal
3761.5254	-57.78	-13.00	44.78	Horizontal
16391.4464	-43.30	-13.00	30.30	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
55.9003	-71.12	-13.00	58.12	Vertical
110.2715	-64.86	-13.00	51.86	Vertical
572.5966	-64.99	-13.00	51.99	Vertical
2702.3405	-36.45	-13.00	23.45	Vertical
3817.0272	-56.75	-13.00	43.75	Vertical
17999.5000	-40.27	-13.00	27.27	Vertical
41.5436	-63.58	-13.00	50.58	Horizontal
239.6275	-67.33	-13.00	54.33	Horizontal
509.9800	-65.02	-13.00	52.02	Horizontal
2694.3389	-35.57	-13.00	22.57	Horizontal
3814.0271	-57.27	-13.00	44.27	Horizontal
16387.4462	-42.90	-13.00	29.90	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)	Polarization
51.4866	-70.91	-13.00	57.91	Vertical
109.2530	-62.33	-13.00	49.33	Vertical
515.8973	-63.57	-13.00	50.57	Vertical
2699.9400	-31.78	-13.00	18.78	Vertical
8506.6836	-53.28	-13.00	40.28	Vertical
17999.0000	-33.90	-13.00	20.90	Vertical
39.0700	-62.13	-13.00	49.13	Horizontal
239.9670	-64.82	-13.00	51.82	Horizontal
607.0819	-60.95	-13.00	47.95	Horizontal
2701.9404	-30.86	-13.00	17.86	Horizontal
3423.0141	-55.85	-13.00	42.85	Horizontal
16400.9467	-34.56	-13.00	21.56	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.5950	-70.49	-13.00	57.49	Vertical
113.8122	-62.96	-13.00	49.96	Vertical
520.4565	-63.91	-13.00	50.91	Vertical
2699.9400	-31.99	-13.00	18.99	Vertical
7475.1492	-53.63	-13.00	40.63	Vertical
17999.0000	-34.22	-13.00	21.22	Vertical
43.6777	-61.96	-13.00	48.96	Horizontal
223.5247	-65.10	-13.00	52.10	Horizontal
550.9160	-62.51	-13.00	49.51	Horizontal
2700.3401	-30.76	-13.00	17.76	Horizontal
7442.1481	-53.97	-13.00	40.97	Horizontal
16397.4466	-35.59	-13.00	22.59	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
54.2027	-70.85	-13.00	57.85	Vertical
111.3386	-62.52	-13.00	49.52	Vertical
584.1887	-62.13	-13.00	49.13	Vertical
2708.7417	-32.07	-13.00	19.07	Vertical
7323.1441	-54.14	-13.00	41.14	Vertical
17996.4999	-33.93	-13.00	20.93	Vertical
41.8346	-62.61	-13.00	49.61	Horizontal
228.8114	-65.34	-13.00	52.34	Horizontal
560.7620	-62.19	-13.00	49.19	Horizontal
2701.1402	-30.73	-13.00	17.73	Horizontal
7431.1477	-53.63	-13.00	40.63	Horizontal
16382.9461	-35.62	-13.00	22.62	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)	Polarization
45.8118	-74.07	-13.00	61.07	Vertical
107.3129	-65.38	-13.00	52.38	Vertical
447.4604	-66.32	-13.00	53.32	Vertical
2697.5395	-52.02	-13.00	39.02	Vertical
5972.0991	-61.26	-13.00	48.26	Vertical
17941.4981	-40.38	-13.00	27.38	Vertical
40.0885	-64.20	-13.00	51.20	Horizontal
227.9384	-68.30	-13.00	55.30	Horizontal
533.7947	-65.34	-13.00	52.34	Horizontal
2691.9384	-50.86	-13.00	37.86	Horizontal
7457.6486	-56.13	-13.00	43.13	Horizontal
16368.9456	-43.56	-13.00	30.56	Horizontal

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7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.1285	-71.73	-13.00	58.73	Vertical
109.8350	-64.85	-13.00	51.85	Vertical
386.5413	-67.66	-13.00	54.66	Vertical
2997.5995	-51.40	-13.00	38.40	Vertical
8009.1670	-56.03	-13.00	43.03	Vertical
17995.4999	-39.51	-13.00	26.51	Vertical
45.5693	-64.18	-13.00	51.18	Horizontal
228.2294	-67.44	-13.00	54.44	Horizontal
1674.5349	-58.81	-13.00	45.81	Horizontal
2699.9400	-50.66	-13.00	37.66	Horizontal
7474.1491	-56.78	-13.00	43.78	Horizontal
16402.9468	-43.87	-13.00	30.87	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.3639	-71.64	-13.00	58.64	Vertical
110.3200	-63.96	-13.00	50.96	Vertical
394.7867	-67.45	-13.00	54.45	Vertical
3000.0000	-51.31	-13.00	38.31	Vertical
7326.6442	-56.17	-13.00	43.17	Vertical
17996.4999	-40.01	-13.00	27.01	Vertical
48.3824	-64.73	-13.00	51.73	Horizontal
229.9755	-67.75	-13.00	54.75	Horizontal
592.8706	-63.16	-13.00	50.16	Horizontal
2475.4951	-49.89	-13.00	36.89	Horizontal
8027.1676	-56.68	-13.00	43.68	Horizontal
16393.4464	-43.81	-13.00	30.81	Horizontal

Remark:

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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 (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-11.94	-0.006444	2.5	PASS
Band II	9262	VN	TN	-17.11	-0.009236	2.5	PASS
Band II	9262	VH	TN	-17.37	-0.009379	2.5	PASS
Band II	9400	VL	TN	-7.02	-0.003736	2.5	PASS
Band II	9400	VN	TN	-7.95	-0.004231	2.5	PASS
Band II	9400	VH	TN	-9.40	-0.004999	2.5	PASS
Band II	9538	VL	TN	-13.18	-0.006910	2.5	PASS
Band II	9538	VN	TN	-15.16	-0.007945	2.5	PASS
Band II	9538	VH	TN	-15.11	-0.007919	2.5	PASS
Band IV	1312	VL	TN	-14.33	-0.008366	2.5	PASS
Band IV	1312	VN	TN	-6.00	-0.003504	2.5	PASS
Band IV	1312	VH	TN	-9.18	-0.005359	2.5	PASS
Band IV	1413	VL	TN	-16.01	-0.009239	2.5	PASS
Band IV	1413	VN	TN	-15.08	-0.008702	2.5	PASS
Band IV	1413	VH	TN	-14.37	-0.008294	2.5	PASS
Band IV	1513	VL	TN	-8.05	-0.004595	2.5	PASS
Band IV	1513	VN	TN	-6.38	-0.003640	2.5	PASS
Band IV	1513	VH	TN	-2.57	-0.001469	2.5	PASS
Band V	4132	VL	TN	-6.20	-0.007504	2.5	PASS
Band V	4132	VN	TN	-7.87	-0.009529	2.5	PASS
Band V	4132	VH	TN	-10.46	-0.012662	2.5	PASS
Band V	4182	VL	TN	-13.07	-0.015632	2.5	PASS
Band V	4182	VN	TN	-10.42	-0.012460	2.5	PASS
Band V	4182	VH	TN	-9.05	-0.010818	2.5	PASS
Band V	4233	VL	TN	-9.79	-0.011566	2.5	PASS
Band V	4233	VN	TN	-7.91	-0.009344	2.5	PASS
Band V	4233	VH	TN	-13.57	-0.016027	2.5	PASS

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8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-6.19	-0.003344	2.5	PASS
Band II	9262	VN	-20	-9.75	-0.005263	2.5	PASS
Band II	9262	VN	-10	-11.98	-0.006468	2.5	PASS
Band II	9262	VN	0	-12.22	-0.006595	2.5	PASS
Band II	9262	VN	10	-10.24	-0.005525	2.5	PASS
Band II	9262	VN	20	-14.16	-0.007645	2.5	PASS
Band II	9262	VN	30	-13.47	-0.007271	2.5	PASS
Band II	9262	VN	40	-7.51	-0.004054	2.5	PASS
Band II	9262	VN	50	-8.03	-0.004336	2.5	PASS
Band II	9400	VN	-30	-8.40	-0.004470	2.5	PASS
Band II	9400	VN	-20	-10.61	-0.005646	2.5	PASS
Band II	9400	VN	-10	-12.34	-0.006563	2.5	PASS
Band II	9400	VN	0	-2.83	-0.001503	2.5	PASS
Band II	9400	VN	10	-11.05	-0.005878	2.5	PASS
Band II	9400	VN	20	-7.87	-0.004189	2.5	PASS
Band II	9400	VN	30	-13.55	-0.007206	2.5	PASS
Band II	9400	VN	40	-8.76	-0.004661	2.5	PASS
Band II	9400	VN	50	-13.28	-0.007065	2.5	PASS
Band II	9538	VN	-30	-8.85	-0.004638	2.5	PASS
Band II	9538	VN	-20	-15.02	-0.007874	2.5	PASS
Band II	9538	VN	-10	-14.55	-0.007626	2.5	PASS
Band II	9538	VN	0	-14.28	-0.007484	2.5	PASS
Band II	9538	VN	10	-6.69	-0.003506	2.5	PASS
Band II	9538	VN	20	-12.04	-0.006314	2.5	PASS
Band II	9538	VN	30	-12.26	-0.006427	2.5	PASS
Band II	9538	VN	40	-16.51	-0.008654	2.5	PASS
Band II	9538	VN	50	-9.26	-0.004856	2.5	PASS
Band IV	1312	VN	-30	-11.16	-0.006516	2.5	PASS
Band IV	1312	VN	-20	-13.17	-0.007690	2.5	PASS
Band IV	1312	VN	-10	-16.26	-0.009498	2.5	PASS
Band IV	1312	VN	0	-10.80	-0.006307	2.5	PASS
Band IV	1312	VN	10	-11.55	-0.006746	2.5	PASS
Band IV	1312	VN	20	-12.94	-0.007556	2.5	PASS
Band IV	1312	VN	30	-9.35	-0.005459	2.5	PASS

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Band IV	1312	VN	40	-12.50	-0.007297	2.5	PASS
Band IV	1312	VN	50	-8.42	-0.004916	2.5	PASS
Band IV	1413	VN	-30	-13.51	-0.007798	2.5	PASS
Band IV	1413	VN	-20	-12.07	-0.006968	2.5	PASS
Band IV	1413	VN	-10	-12.17	-0.007022	2.5	PASS
Band IV	1413	VN	0	-13.25	-0.007645	2.5	PASS
Band IV	1413	VN	10	-13.63	-0.007868	2.5	PASS
Band IV	1413	VN	20	-13.13	-0.007579	2.5	PASS
Band IV	1413	VN	30	-9.45	-0.005453	2.5	PASS
Band IV	1413	VN	40	-13.15	-0.007592	2.5	PASS
Band IV	1413	VN	50	-13.00	-0.007501	2.5	PASS
Band IV	1513	VN	-30	-12.43	-0.007093	2.5	PASS
Band IV	1513	VN	-20	-6.55	-0.003738	2.5	PASS
Band IV	1513	VN	-10	-5.91	-0.003371	2.5	PASS
Band IV	1513	VN	0	-5.82	-0.003322	2.5	PASS
Band IV	1513	VN	10	-10.65	-0.006077	2.5	PASS
Band IV	1513	VN	20	-7.75	-0.004420	2.5	PASS
Band IV	1513	VN	30	0.23	0.000131	2.5	PASS
Band IV	1513	VN	40	-5.14	-0.002930	2.5	PASS
Band IV	1513	VN	50	-12.53	-0.007150	2.5	PASS
Band V	4132	VN	-30	-5.11	-0.006180	2.5	PASS
Band V	4132	VN	-20	-11.12	-0.013450	2.5	PASS
Band V	4132	VN	-10	-9.47	-0.011459	2.5	PASS
Band V	4132	VN	0	-8.40	-0.010161	2.5	PASS
Band V	4132	VN	10	-11.14	-0.013485	2.5	PASS
Band V	4132	VN	20	-7.63	-0.009235	2.5	PASS
Band V	4132	VN	30	-13.48	-0.016306	2.5	PASS
Band V	4132	VN	40	-9.69	-0.011728	2.5	PASS
Band V	4132	VN	50	-9.81	-0.011875	2.5	PASS
Band V	4182	VN	-30	-12.49	-0.014931	2.5	PASS
Band V	4182	VN	-20	-9.98	-0.011929	2.5	PASS
Band V	4182	VN	-10	-7.86	-0.009398	2.5	PASS
Band V	4182	VN	0	-6.60	-0.007893	2.5	PASS
Band V	4182	VN	10	-9.53	-0.011399	2.5	PASS
Band V	4182	VN	20	-6.67	-0.007979	2.5	PASS
Band V	4182	VN	30	-13.46	-0.016094	2.5	PASS
Band V	4182	VN	40	-12.67	-0.015153	2.5	PASS
Band V	4182	VN	50	-13.43	-0.016060	2.5	PASS

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Band V	4233	VN	-20	-11.34	-0.013399	2.5	PASS
Band V	4233	VN	-10	-7.35	-0.008677	2.5	PASS
Band V	4233	VN	0	-5.15	-0.006083	2.5	PASS
Band V	4233	VN	10	-8.57	-0.010121	2.5	PASS
Band V	4233	VN	20	-7.12	-0.008406	2.5	PASS
Band V	4233	VN	30	-10.77	-0.012724	2.5	PASS
Band V	4233	VN	40	-6.67	-0.007883	2.5	PASS
Band V	4233	VN	50	-7.00	-0.008271	2.5	PASS

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