



Appendix B

CDMA BC0/BC1/BC10



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1 Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured [dBm]	EIRP [dBm]	Limit[dBm]	Verdict
CDMA BC1	CDMA /TM1	LCH	24.50	22.50	33	PASS
		MCH	24.10	22.10	33	PASS
		HCH	24.12	22.12	33	PASS

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP [dBm]	Limit[dBm]	Verdict
CDMA BC0	CDMA /TM1	LCH	24.26	18.11	38.45	PASS
		MCH	24.25	18.10	38.45	PASS
		HCH	24.35	18.20	38.45	PASS
CDMA BC10	CDMA /TM1	LCH	24.27	18.12	50.00	PASS
		MCH	24.33	18.18	50.00	PASS
		HCH	24.33	18.18	50.00	PASS

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
BC0	CDMA /TM1	LCH	4.32	13	PASS
		MCH	4.35	13	PASS
		HCH	3.51	13	PASS
BC1	CDMA /TM1	LCH	4.20	13	PASS
		MCH	4.03	13	PASS
		HCH	4.52	13	PASS
BC10	CDMA/TM1	LCH	4.41	13	PASS
		MCH	4.26	13	PASS
		HCH	4.17	13	PASS



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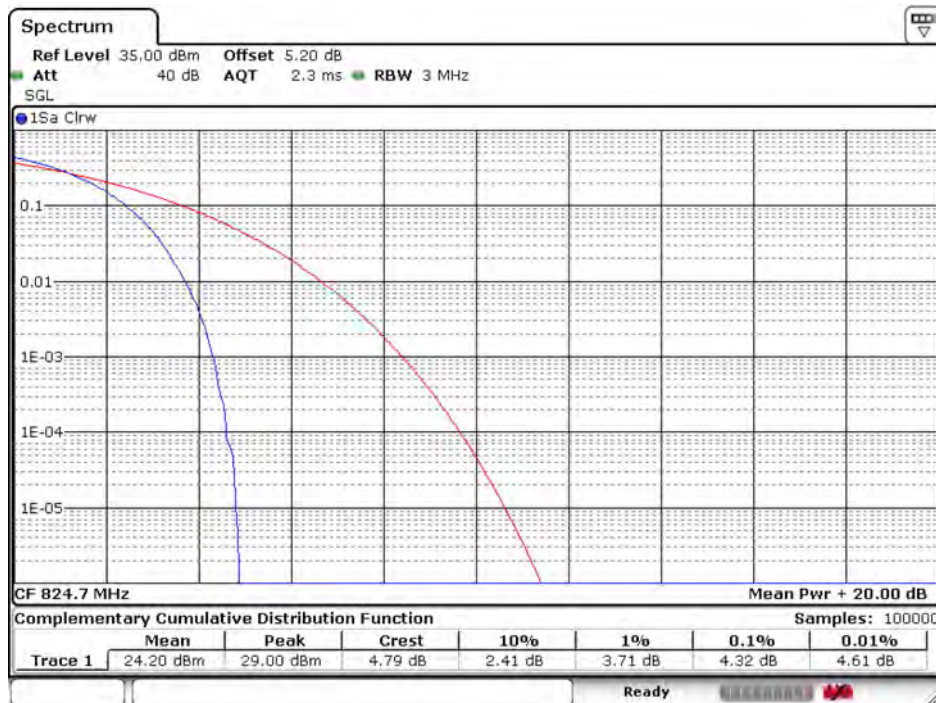
Part II - Test Plots

2.1 For CDMA

2.1.1 Test Band = CDMA BC0

2.1.1.1 Test Mode = CDMA /TM1

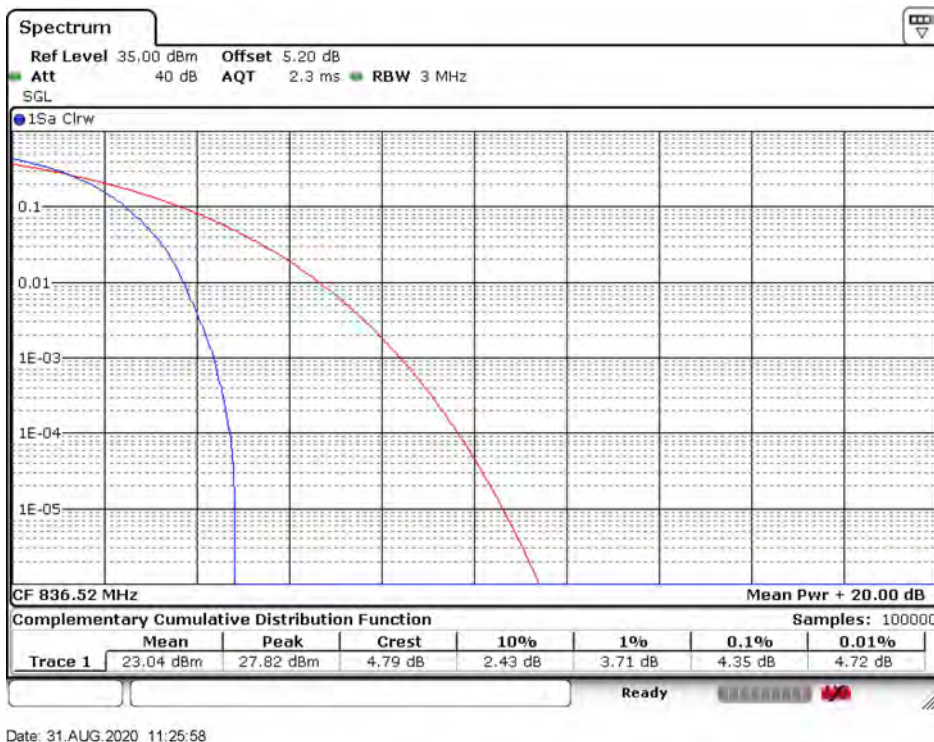
2.1.1.1.1 Test Channel = LCH



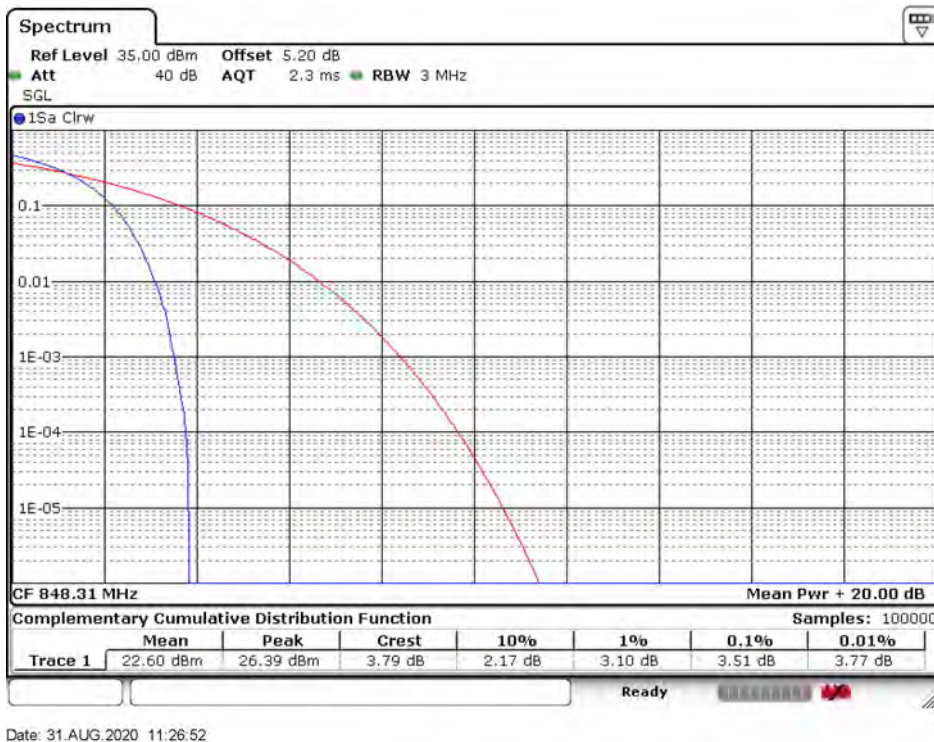
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2.1.1.1.2 Test Channel = MCH



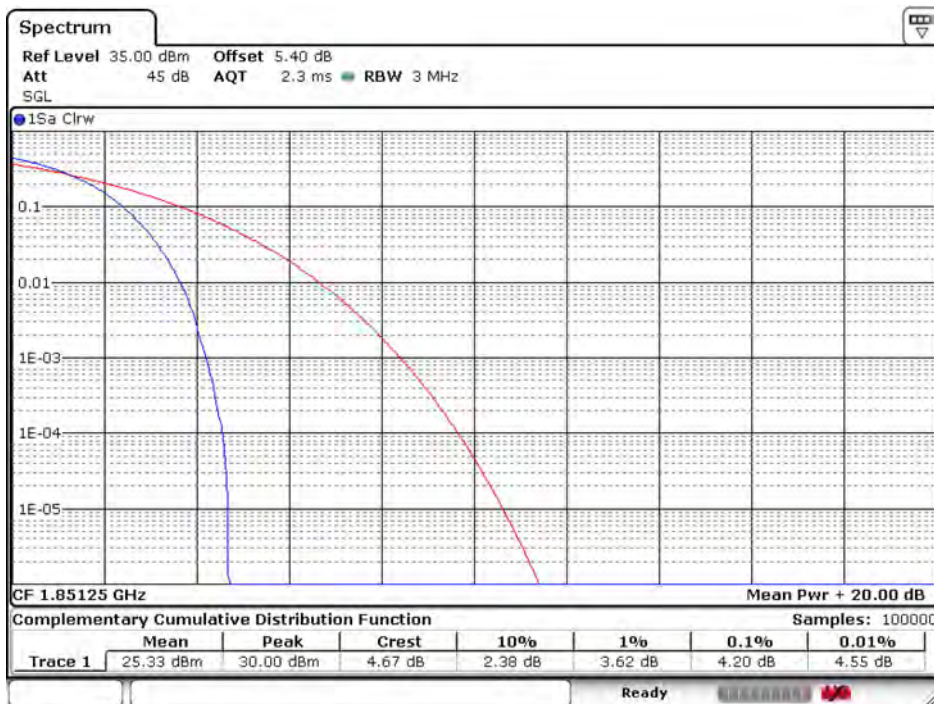
2.1.1.1.3 Test Channel = HCH



2.1.2 Test Band = CDMA BC1

2.1.2.1 Test Mode = CDMA /TM1

2.1.2.1.1 Test Channel = LCH



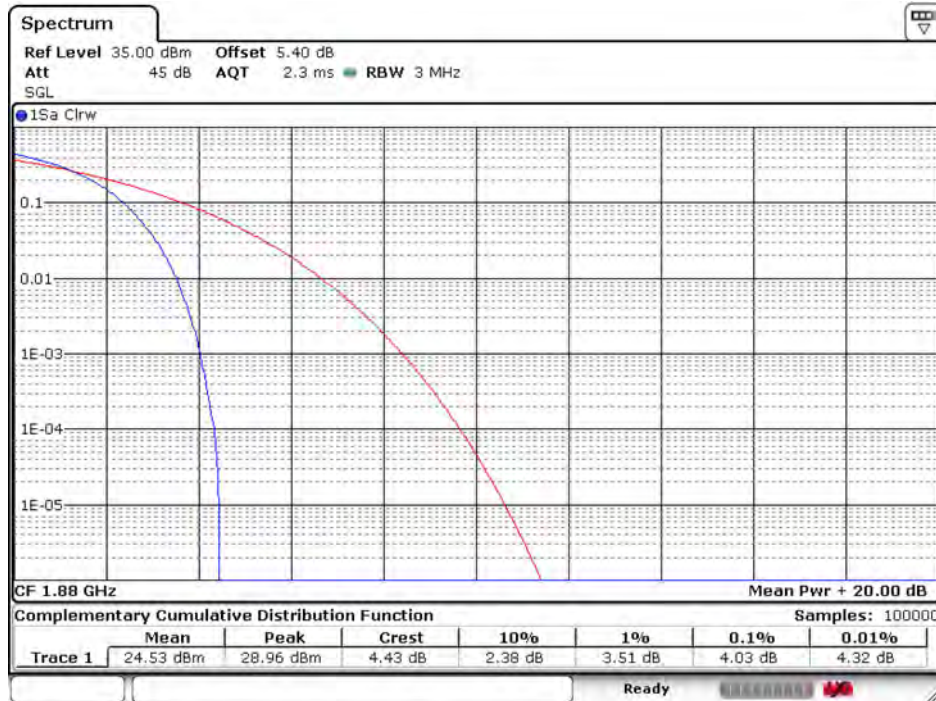
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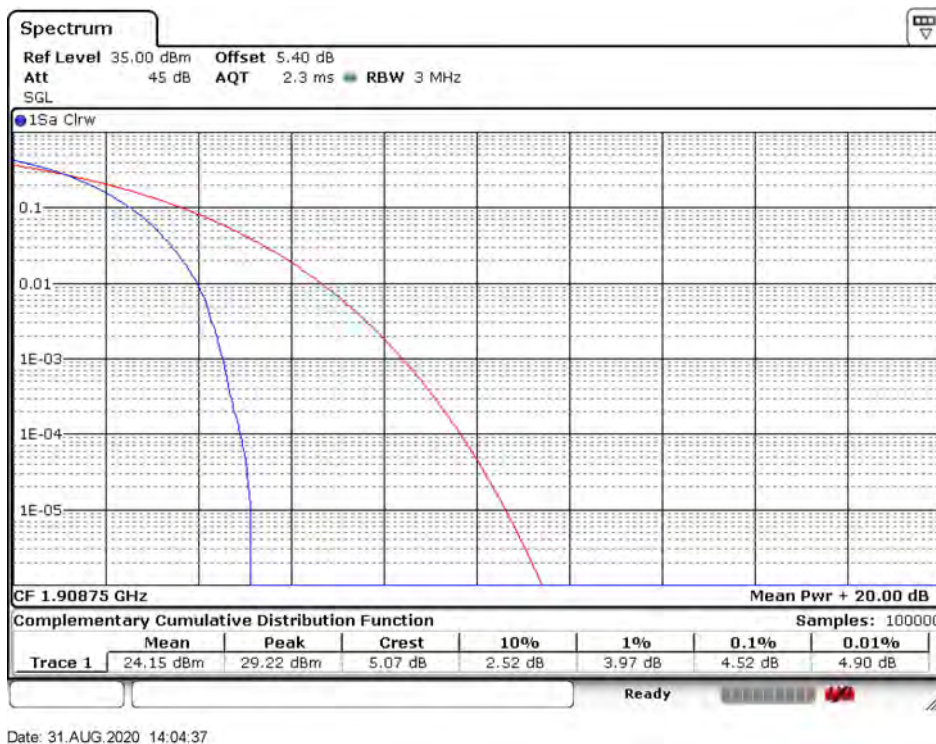
2.1.2.1.2 Test Channel = MCH



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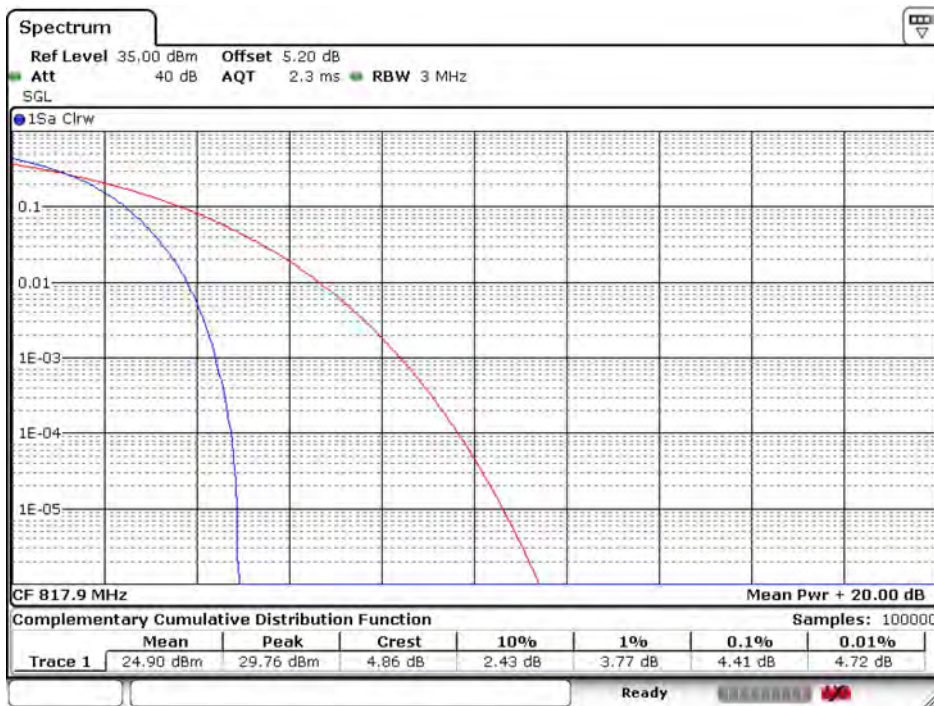
2.1.2.1.3 Test Channel = HCH



2.1.3 Test Band = CDMA BC10

2.1.3.1 Test Mode = CDMA /TM1

2.1.3.1.1 Test Channel = LCH

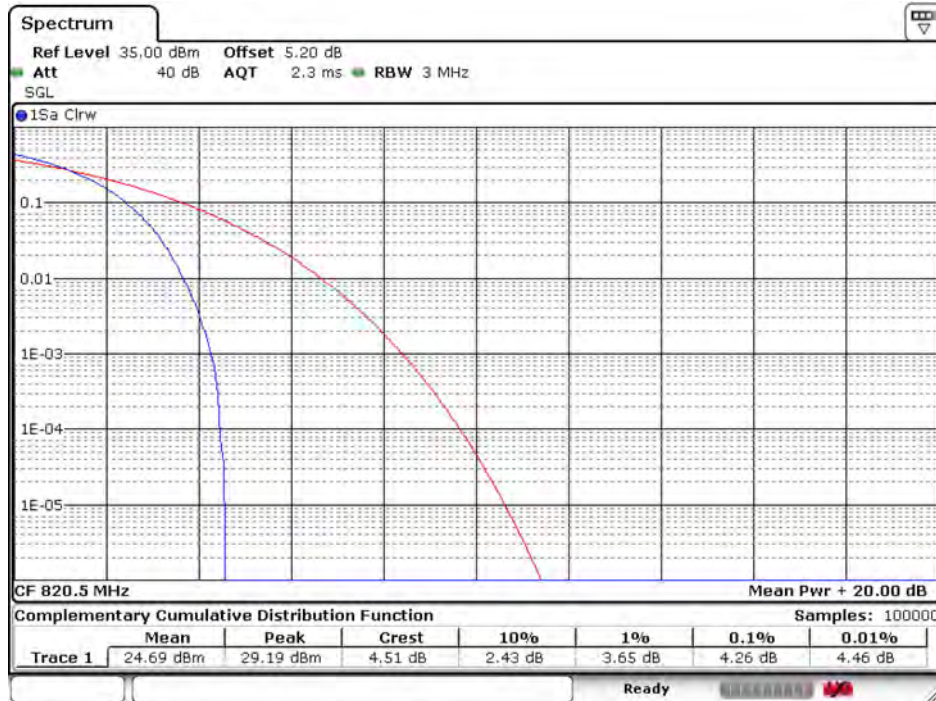


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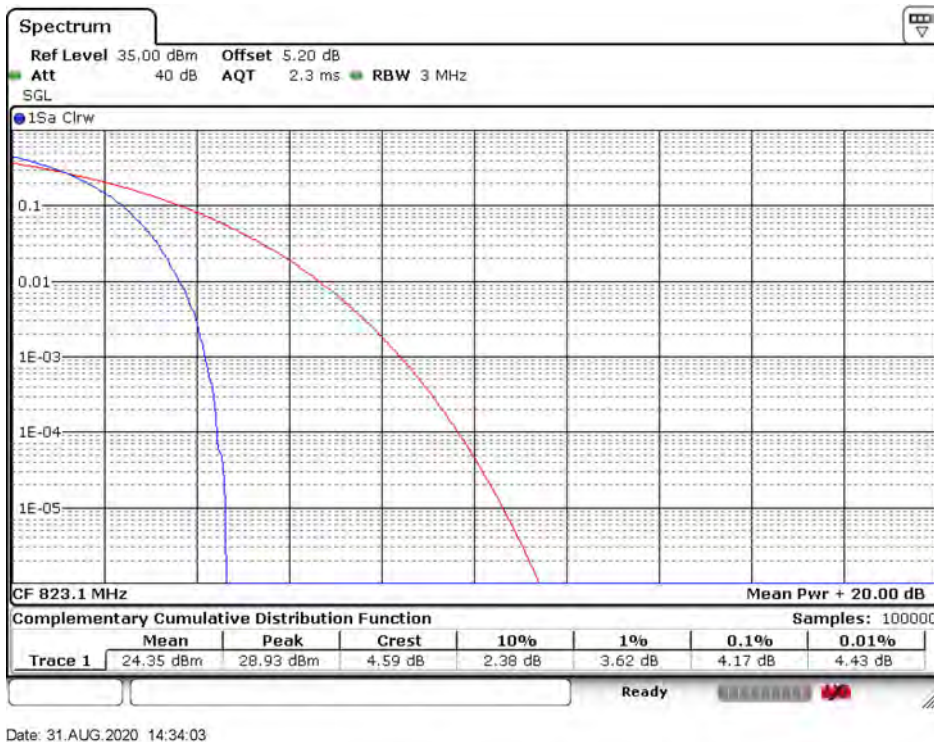
2.1.3.1.2 Test Channel = MCH



Date: 31.AUG.2020 14:33:42



2.1.3.1.3 Test Channel = HCH



3 Modulation Characteristics

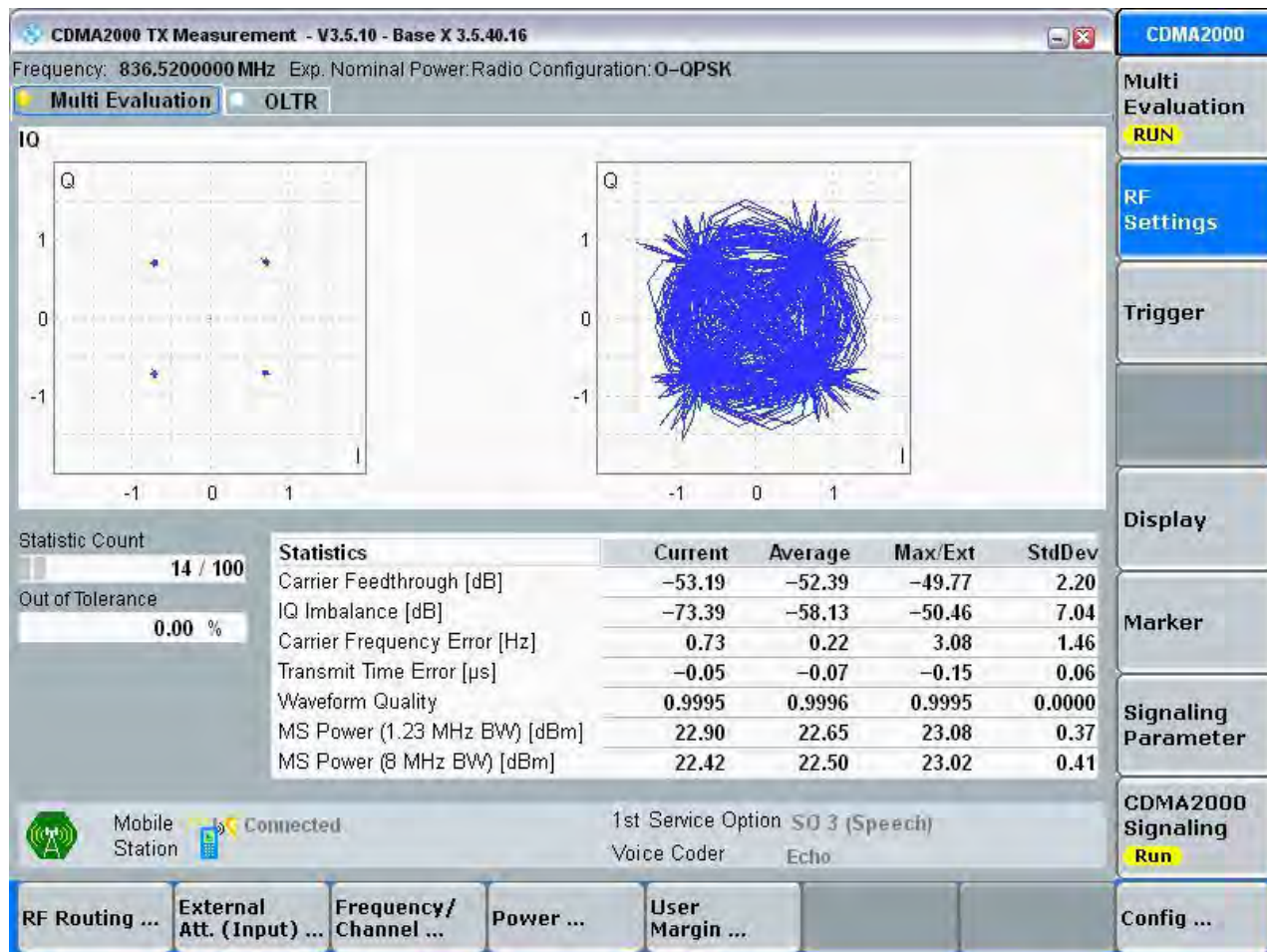
Part I - Test Plots

3.1 For CDMA

3.1.1 Test Band = CDMA BC0

3.1.1.1 Test Mode = CDMA /TM1

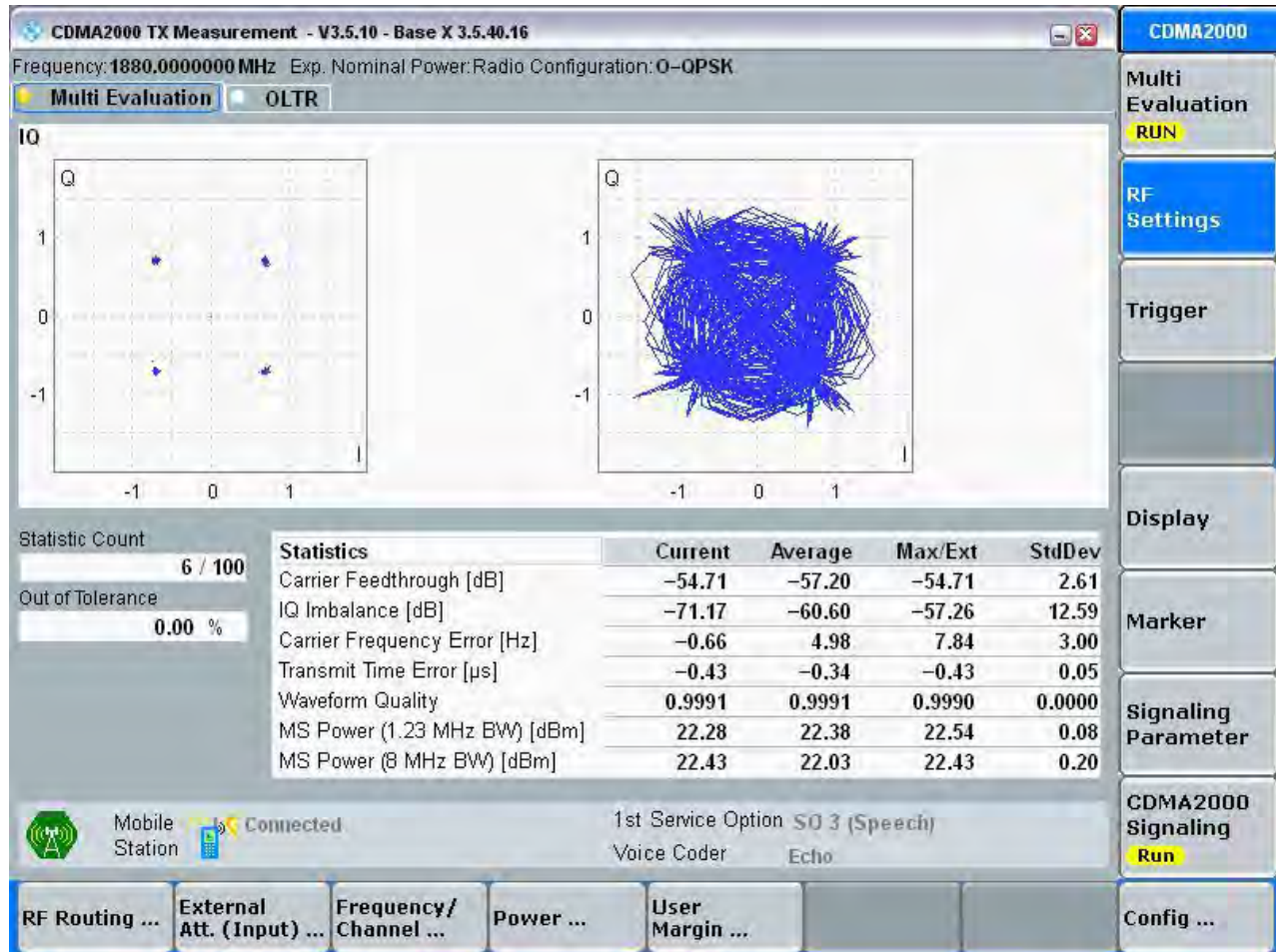
3.1.1.1.1 Test Channel = MCH



3.1.2 Test Band = CDMA BC1

3.1.2.1 Test Mode = CDMA /TM1

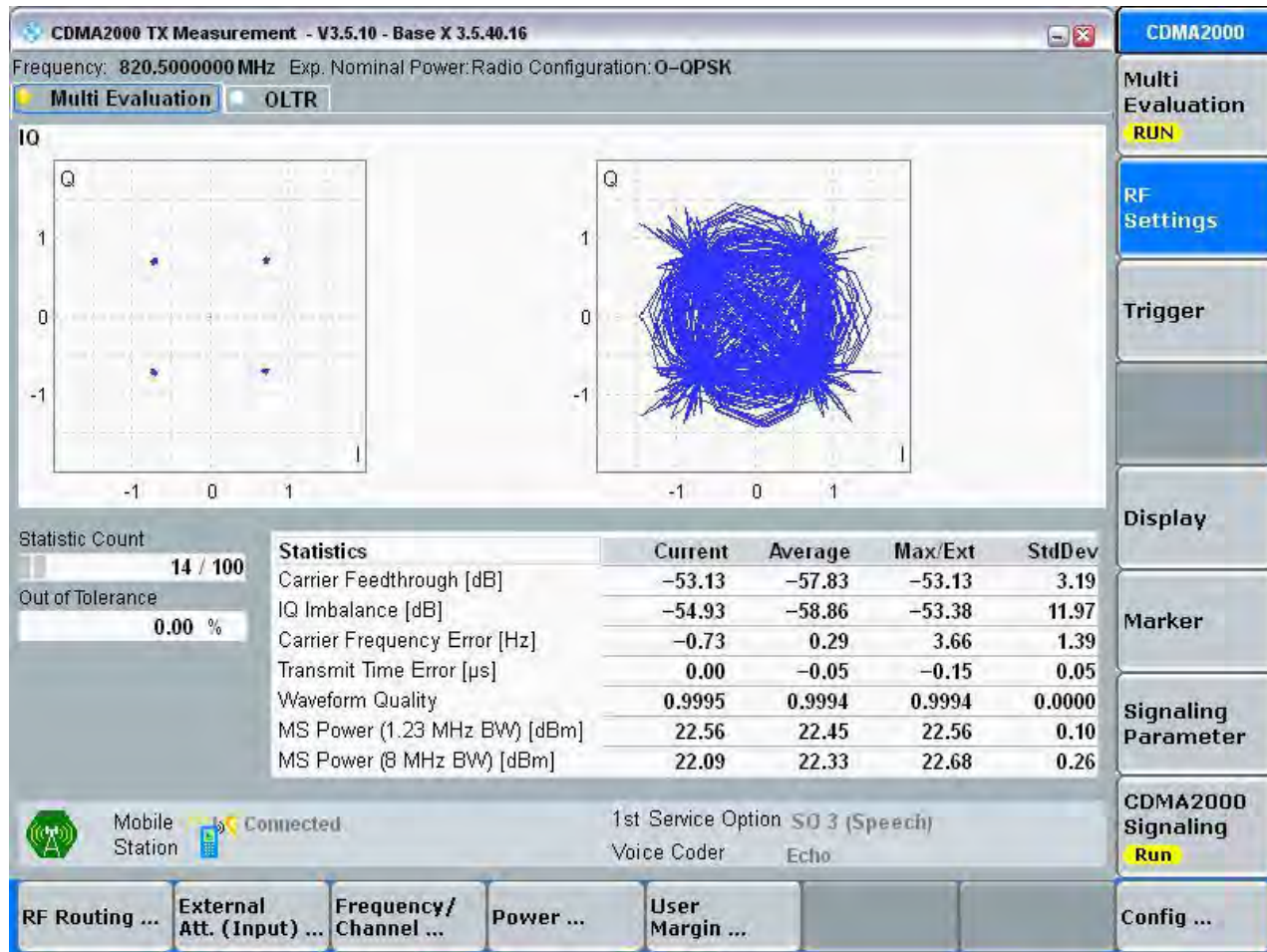
3.1.2.1.1 Test Channel = MCH



3.1.3 Test Band = CDMA BC10

3.1.3.1 Test Mode = CDMA /TM1

3.1.3.1.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CDMA BC0	CDMA/TM1	LCH	1.27	1.43	PASS
		MCH	1.28	1.43	PASS
		HCH	1.29	1.46	PASS
CDMA BC1	CDMA/TM1	LCH	1.27	1.43	PASS
		MCH	1.28	1.44	PASS
		HCH	1.27	1.42	PASS
CDMA BC10	CDMA/TM1	LCH	1.28	1.42	PASS
		MCH	1.28	1.43	PASS
		HCH	1.28	1.44	PASS



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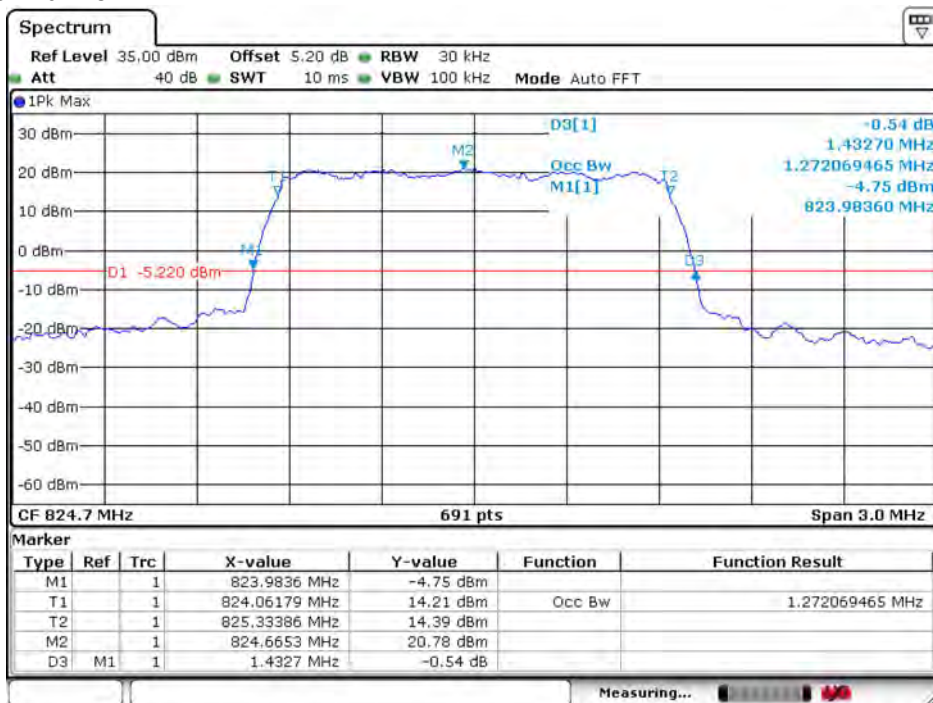
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4.1 For CDMA

4.1.1 Test Band = CDMA BC0

4.1.1.1 Test Mode = CDMA /TM1

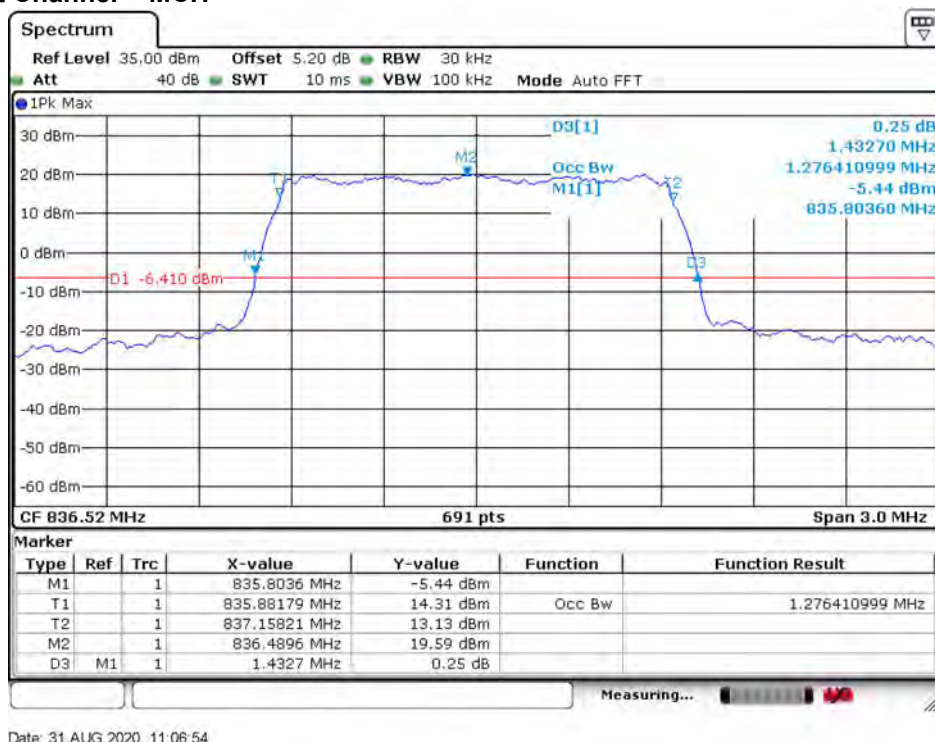
4.1.1.1.1 Test Channel = LCH



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4.1.1.1.2 Test Channel = MCH



Date: 31.AUG 2020 11:06:54



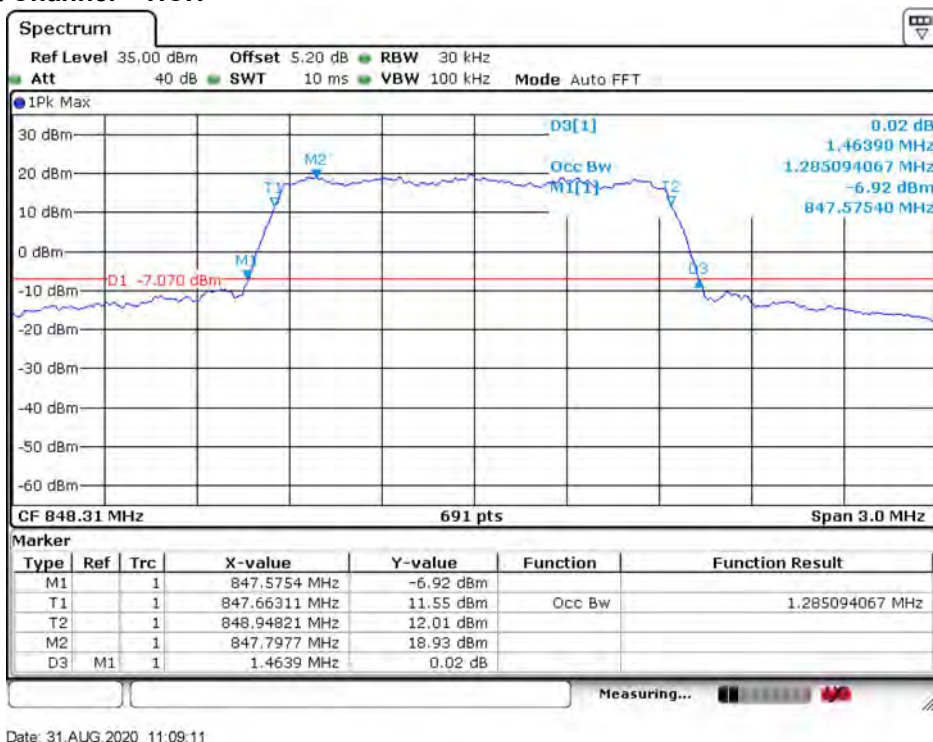
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4.1.1.1.3 Test Channel = HCH



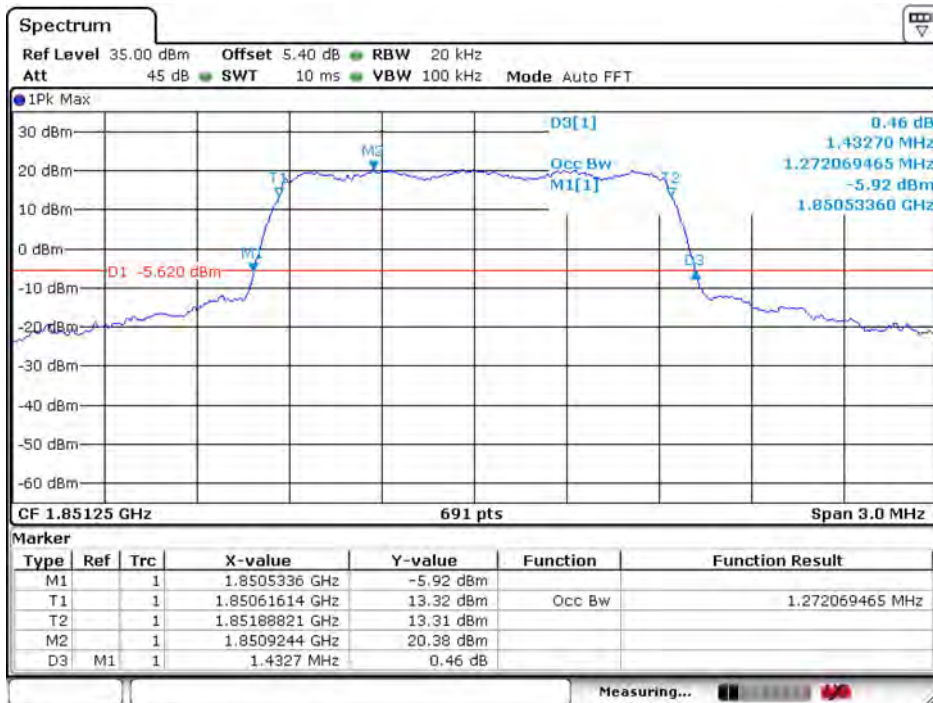
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4.1.2 Test Band = CDMA BC1

4.1.2.1 Test Mode = CDMA /TM1

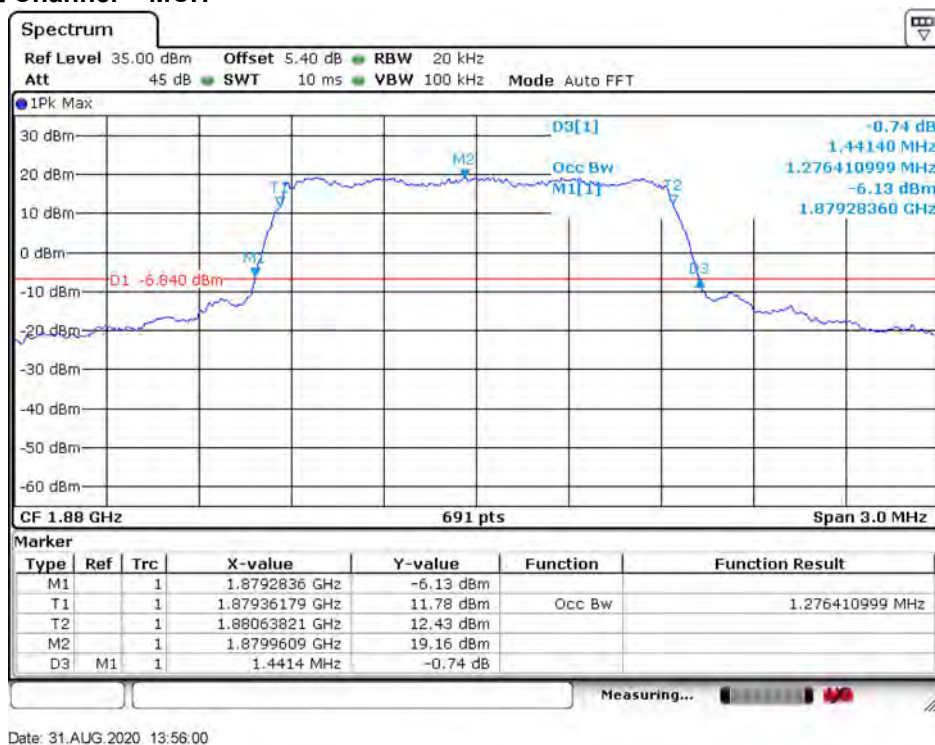
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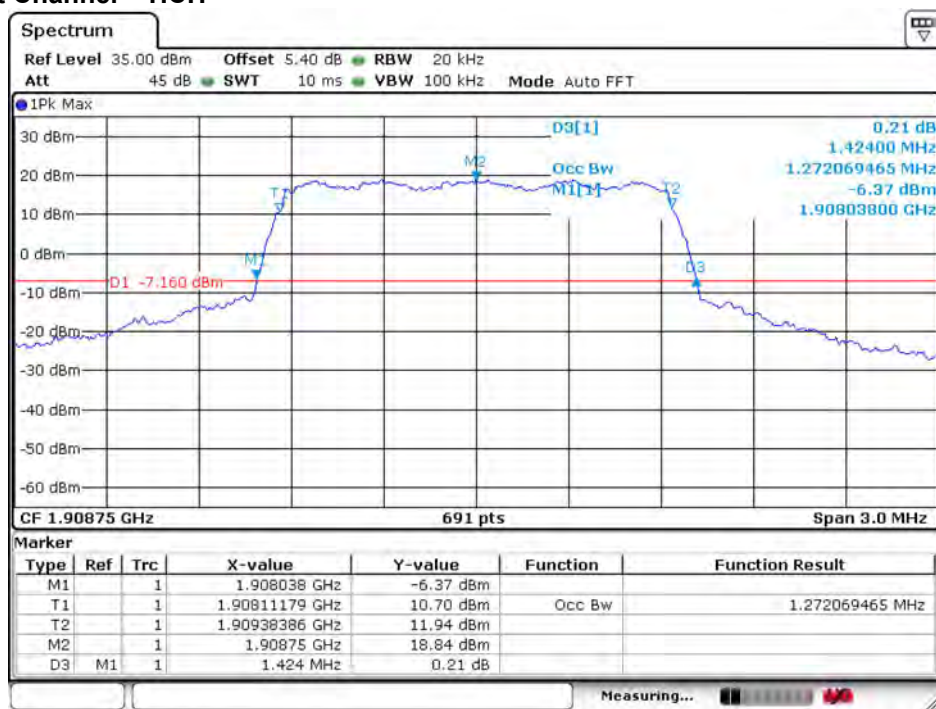
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4.1.2.1.2 Test Channel = MCH



4.1.2.1.3 Test Channel = HCH



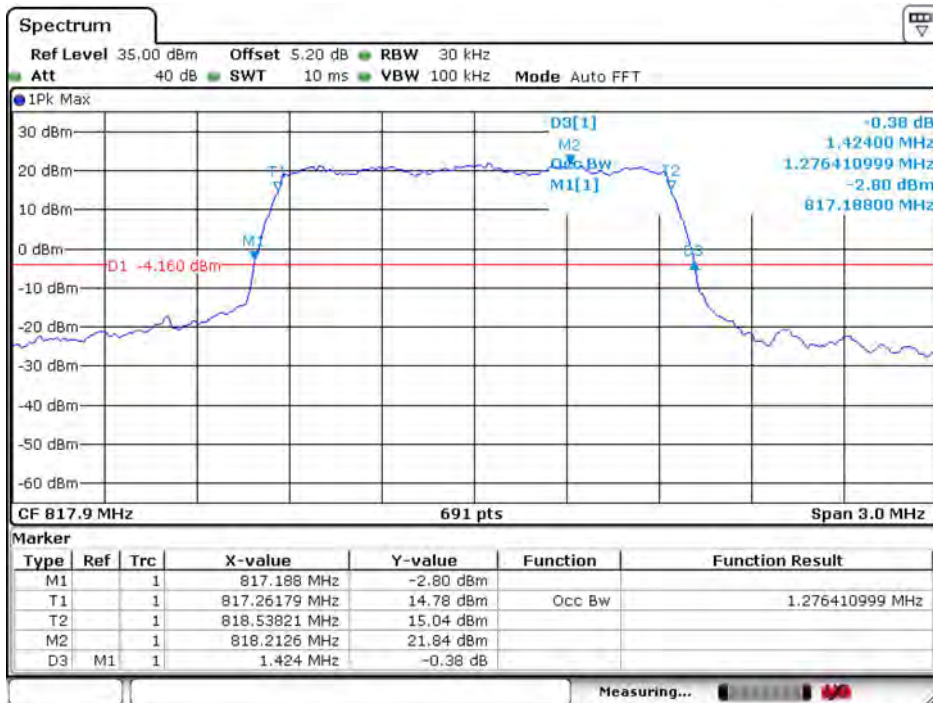
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4.1.3 Test Band = CDMA BC10

4.1.3.1 Test Mode = CDMA /TM1

4.1.3.1.1 Test Channel = LCH



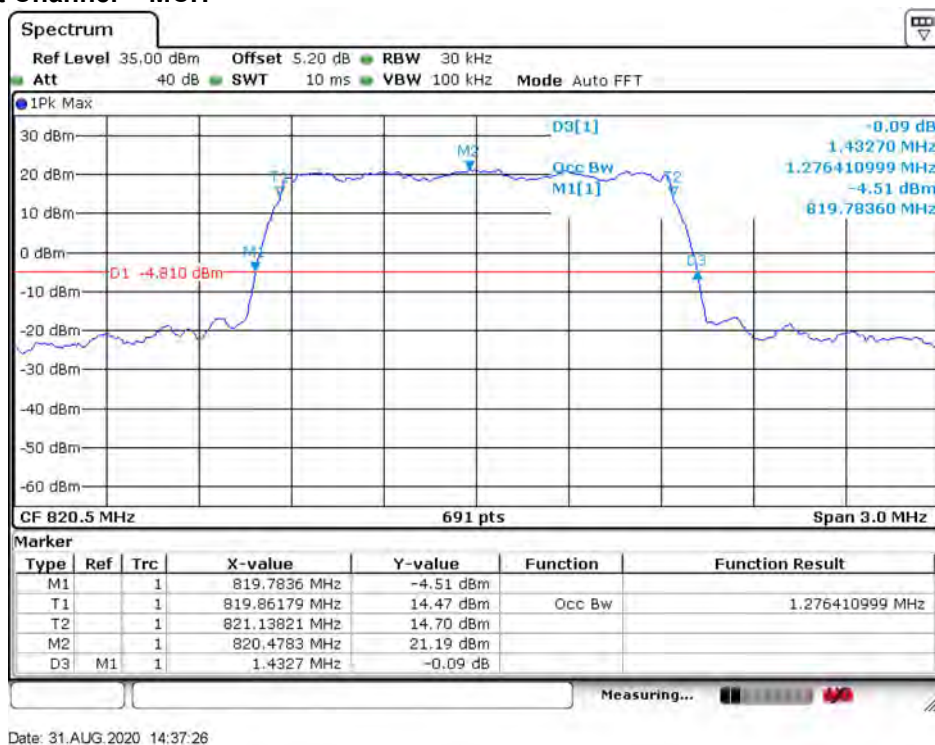
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4.1.3.1.2 Test Channel = MCH



Date: 31.AUG 2020 14:37:26

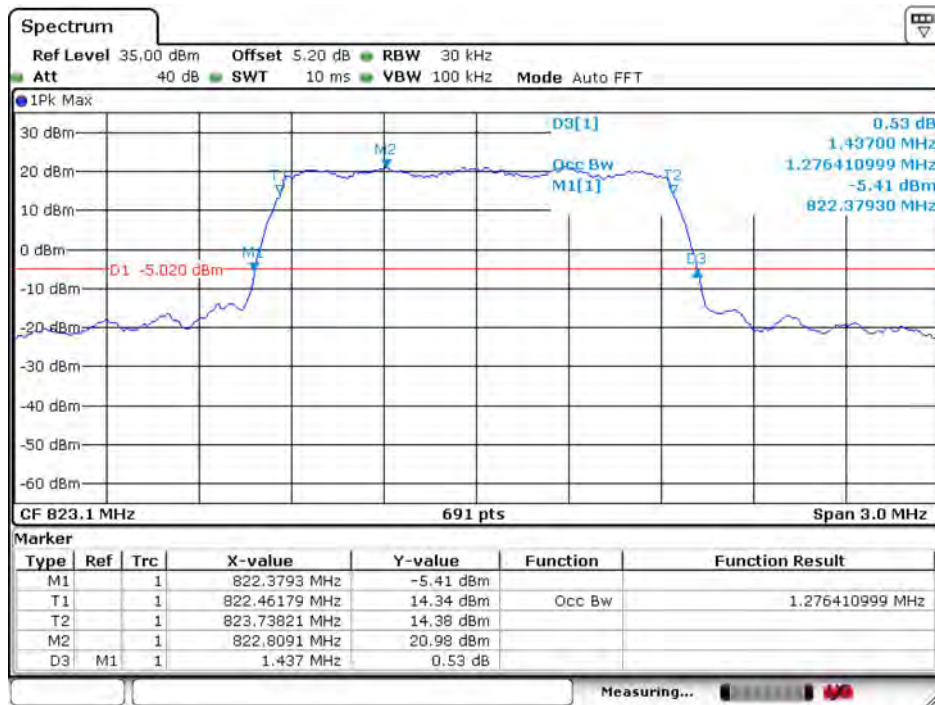
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4.1.3.1.3 Test Channel = HCH



Date: 31.AUG 2020 14:38:12



5 Band Edges Compliance

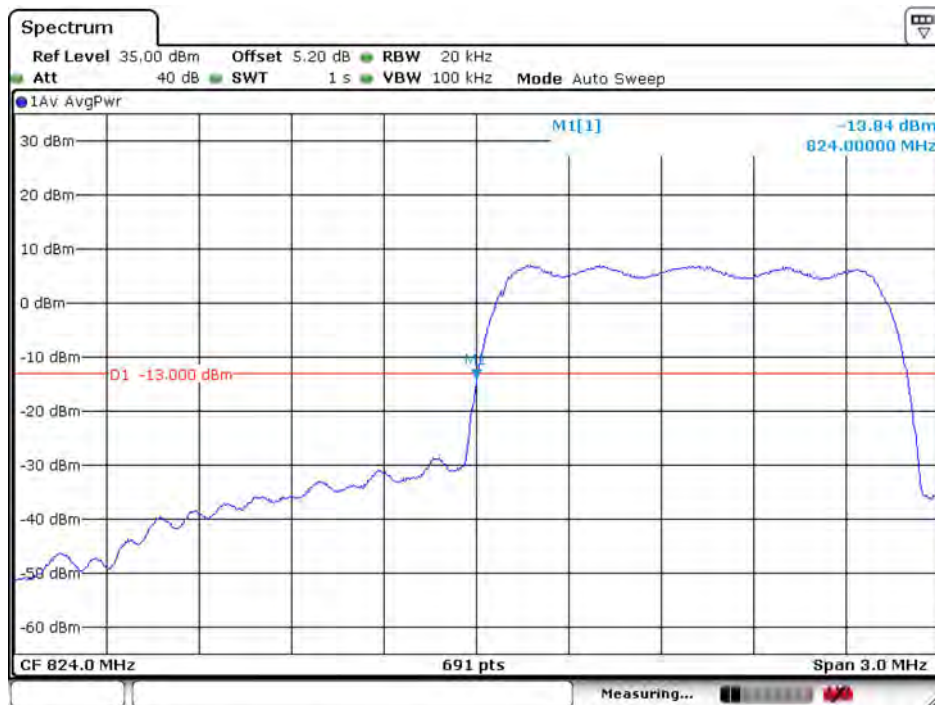
Part I - Test Plots

5.1 For CDMA

5.1.1 Test Band = CDMA BC0

5.1.1.1 Test Mode = CDMA /TM1

5.1.1.1.1 Test Channel = LCH



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5.1.1.1.2 Test Channel = HCH



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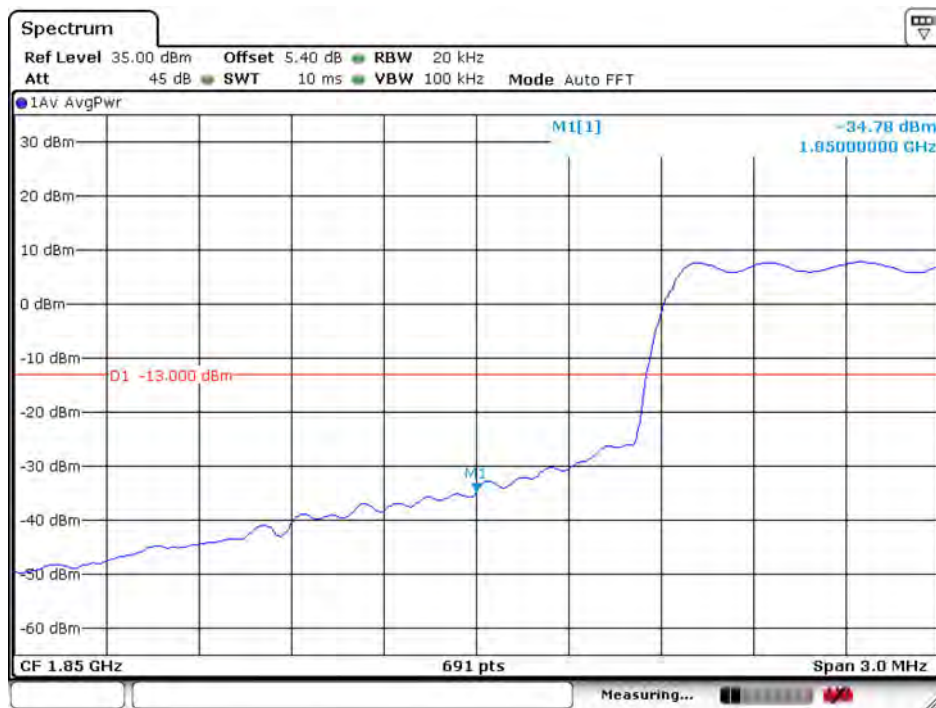
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5.1.2 Test Band = CDMA BC1

5.1.2.1 Test Mode = CDMA /TM1

5.1.2.1.1 Test Channel = LCH



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5.1.2.1.2 Test Channel = HCH



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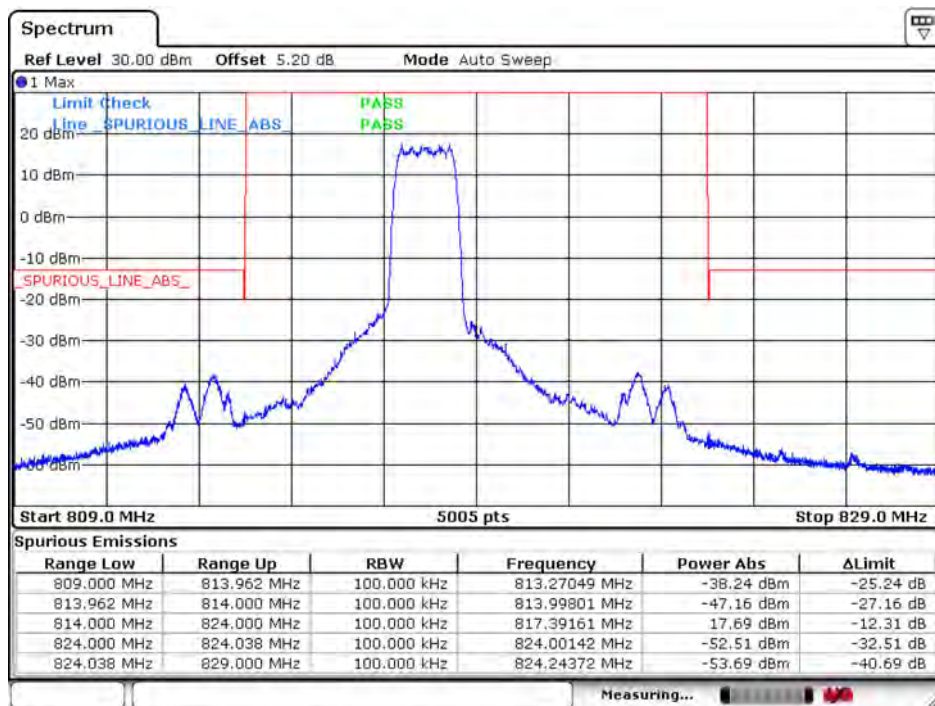
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5.1.3 Test Band = CDMA BC10

5.1.3.1 Test Mode = CDMA /TM1

5.1.3.1.1 Test Channel = LCH



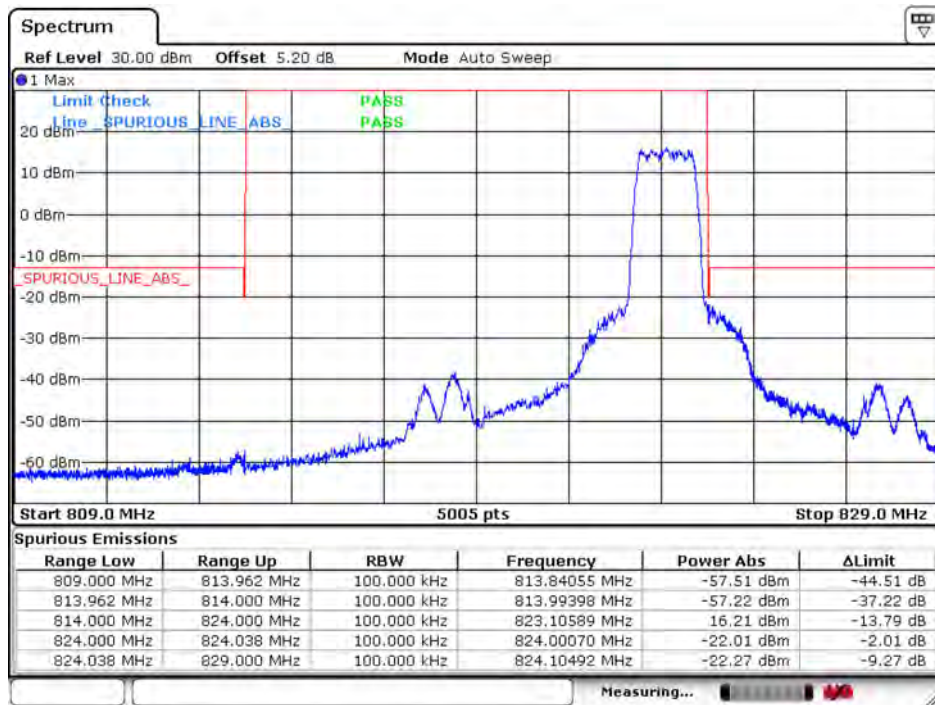
Date: 31.AUG 2020 14:47:23



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5.1.3.1.2 Test Channel = HCH



Date: 31.AUG.2020 14:47:57



6 Spurious Emission at Antenna Terminal

NOTE: 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 = $k \cdot (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

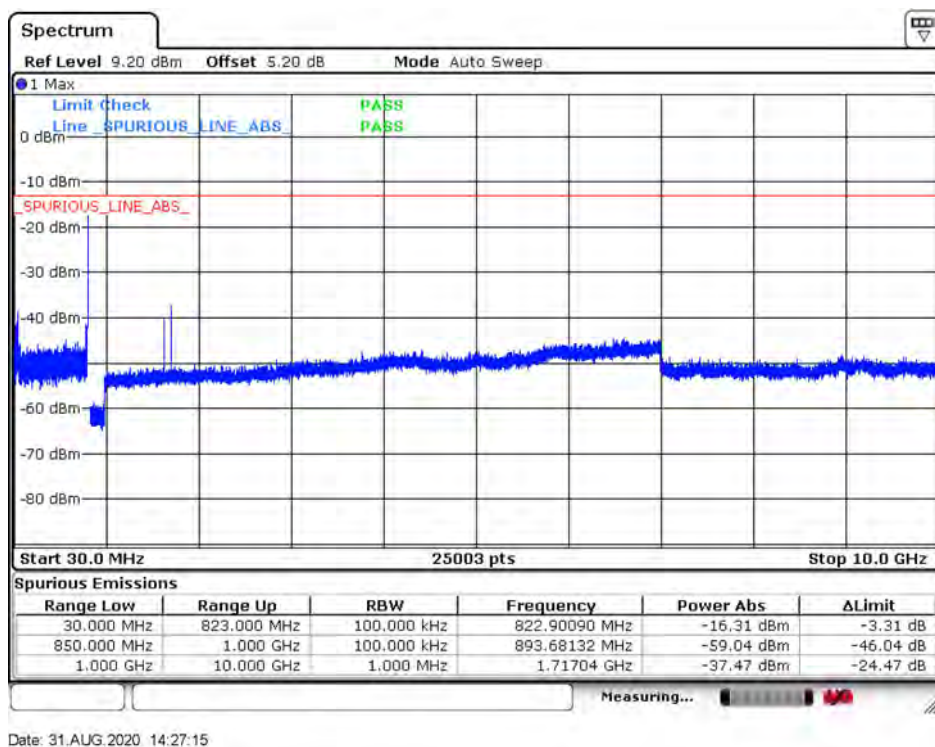
Part I - Test Plots

6.1 For CDMA

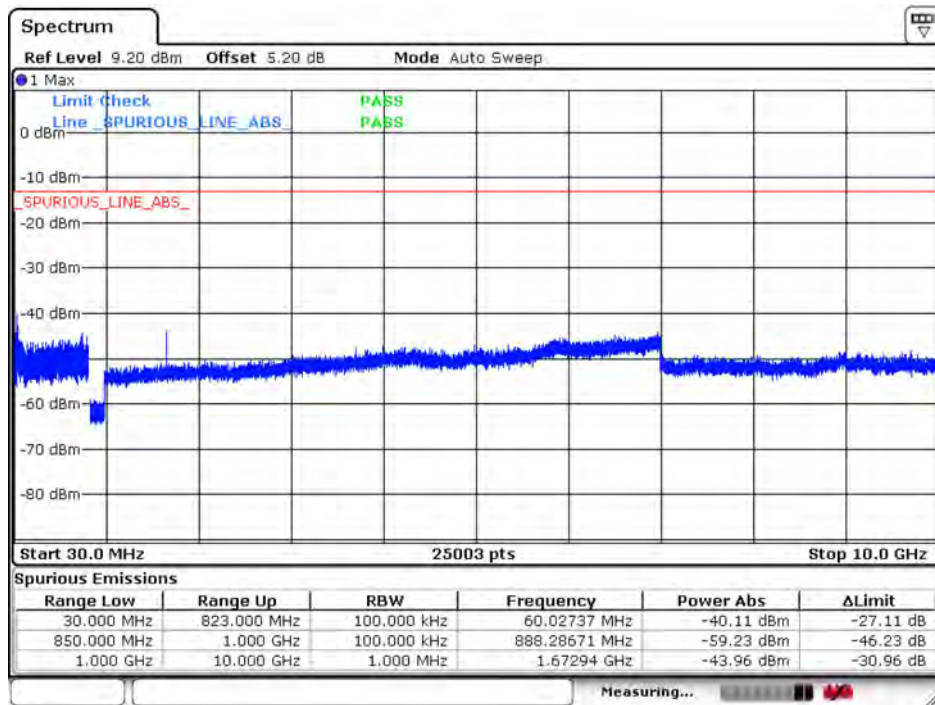
6.1.1 Test Band = CDMA BC0

6.1.1.1 Test Mode = CDMA /TM1

6.1.1.1.1 Test Channel = LCH



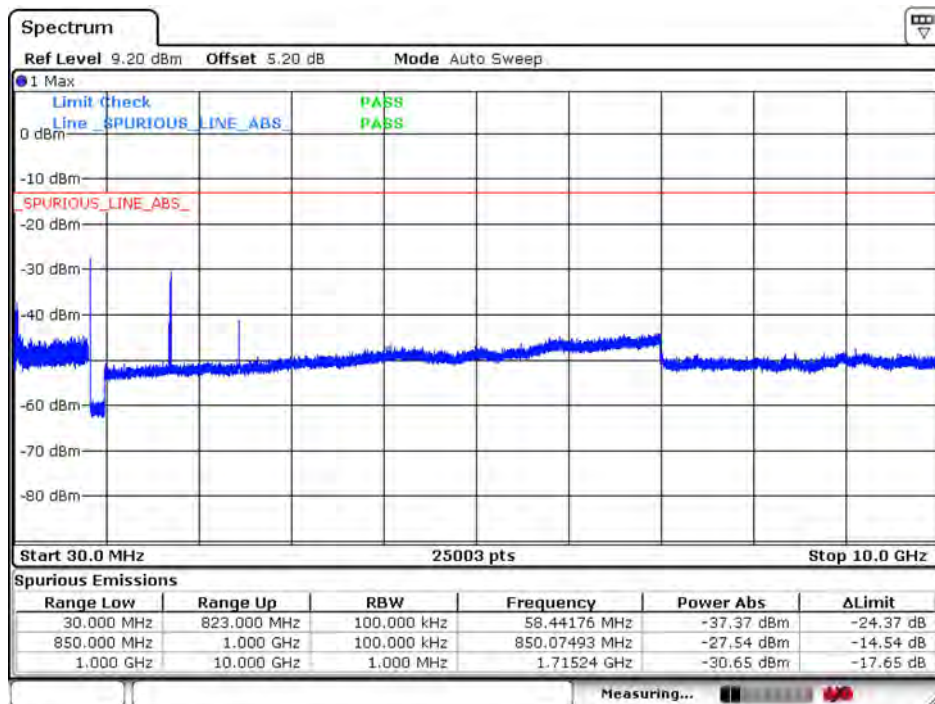
6.1.1.1.2 Test Channel = MCH



Date: 31.AUG.2020 11:28:30



6.1.1.1.3 Test Channel = HCH



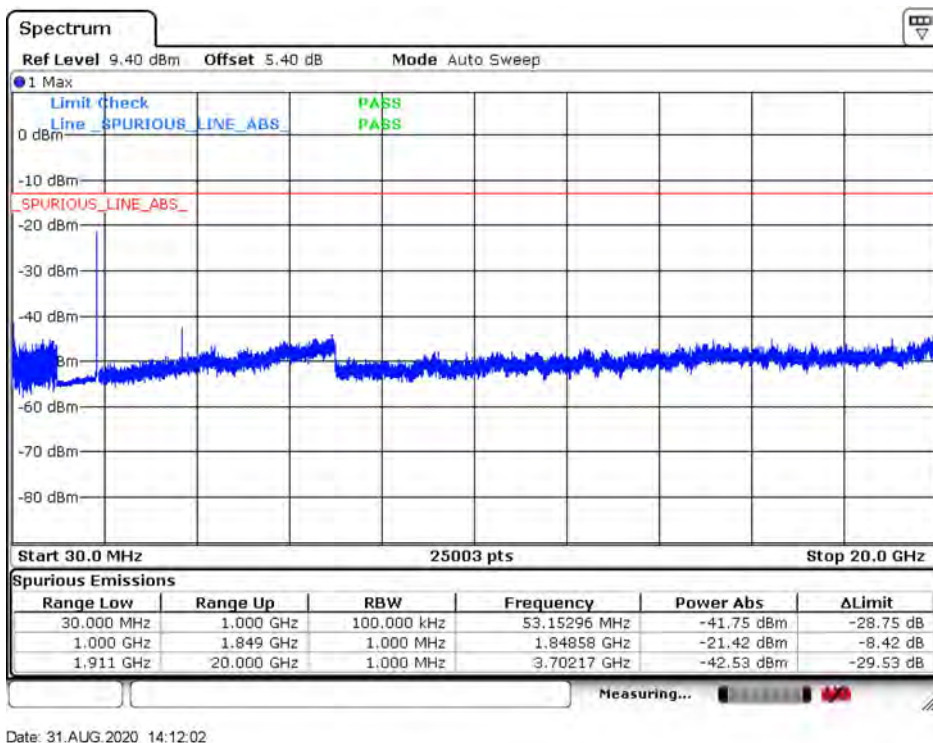
Date: 31.AUG.2020 11:27:55



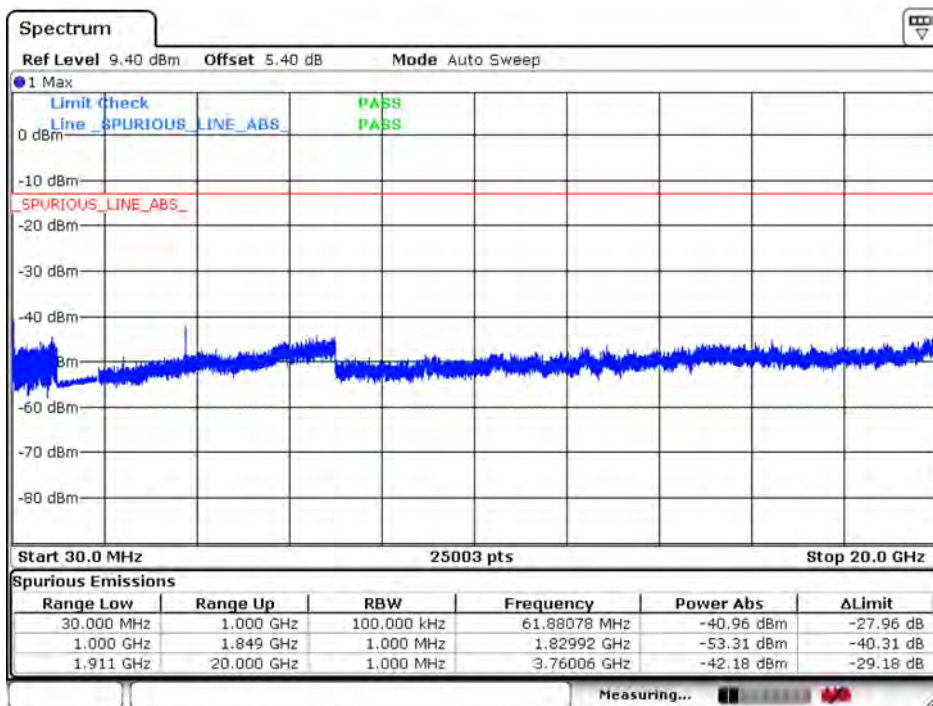
6.1.2 Test Band = CDMA BC1

6.1.2.1 Test Mode = CDMA /TM1

6.1.2.1.1 Test Channel = LCH



6.1.2.1.2 Test Channel = MCH



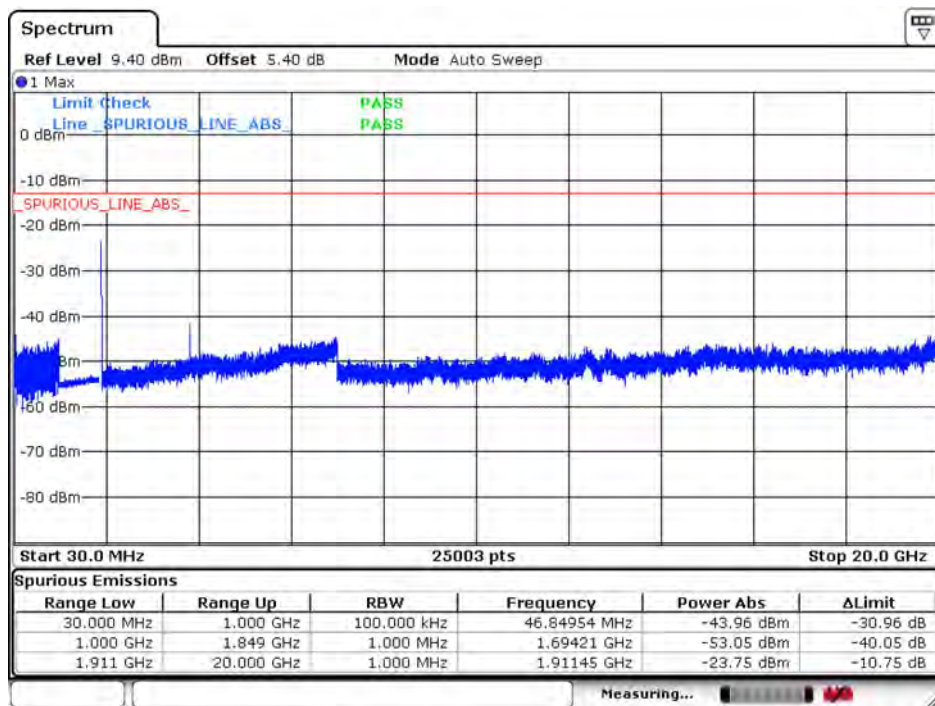
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6.1.2.1.3 Test Channel = HCH



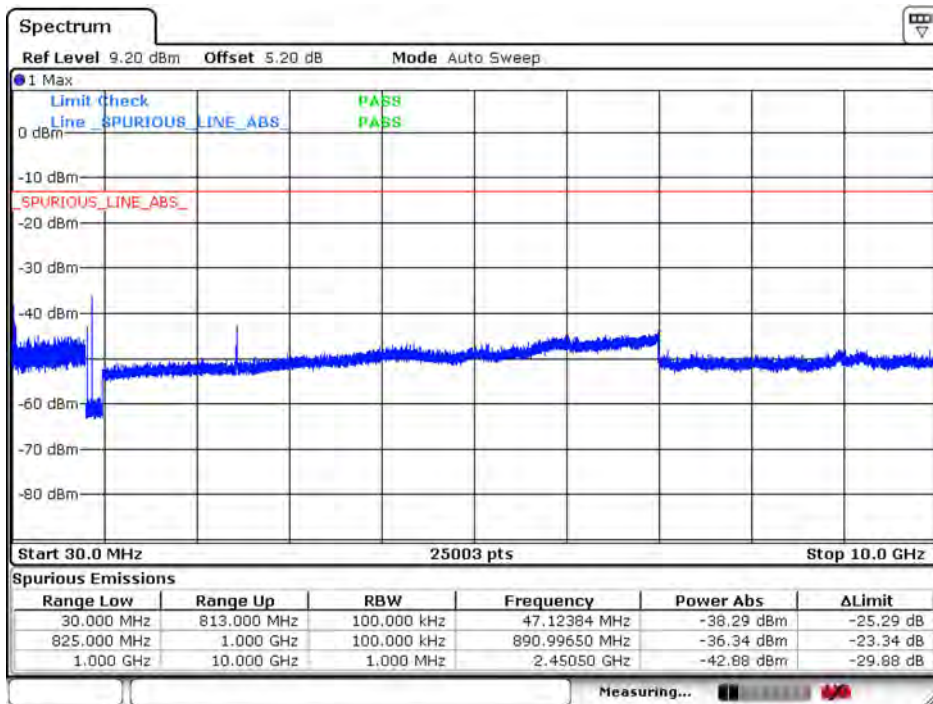
Date: 31.AUG.2020 14:11:11



Test Band = CDMA BC10

6.1.2.2 Test Mode = CDMA /TM1

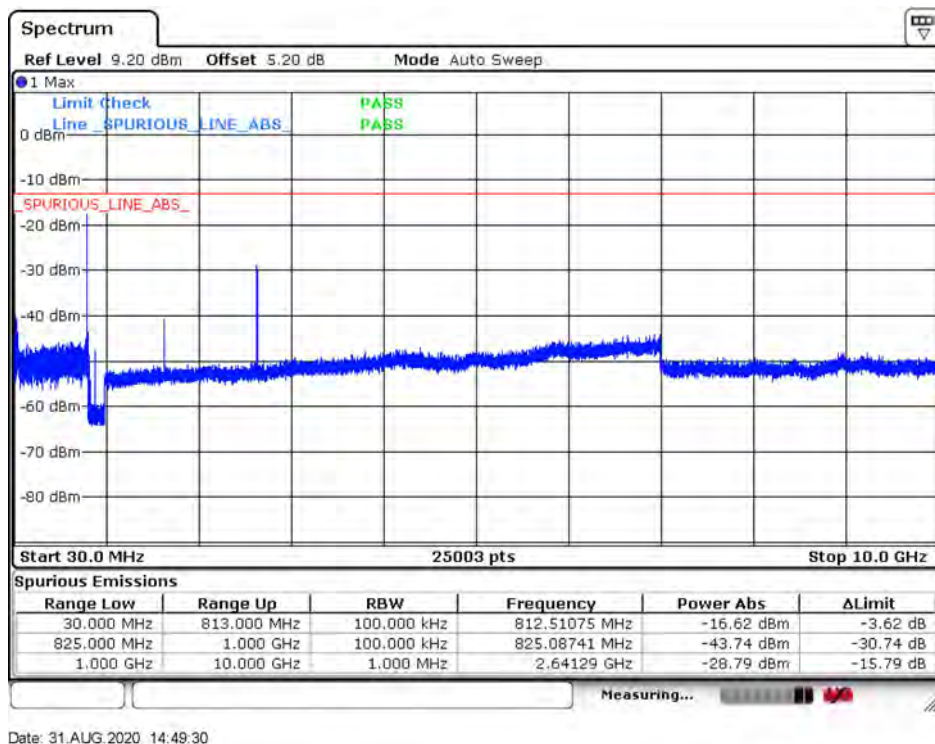
6.1.2.2.1 Test Channel = LCH



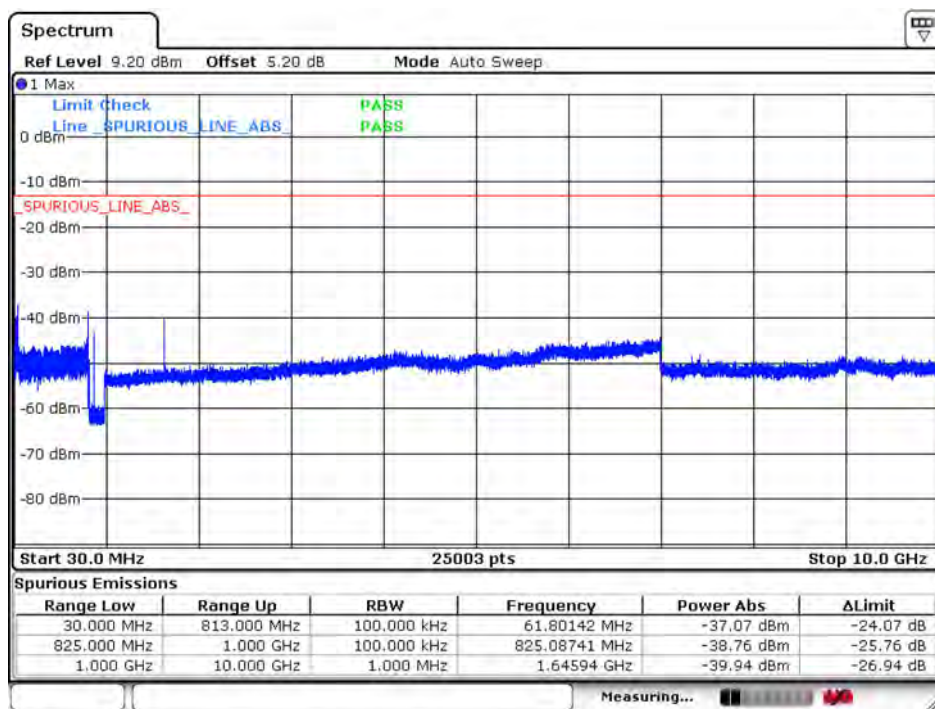
Date: 31.AUG.2020 15:09:15



6.1.2.2.2 Test Channel = MCH



6.1.2.2.3 Test Channel = HCH



Date: 31.AUG.2020 14:48:48





7 Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For CDMA

7.1.1 Test Band = CDMA BC0

7.1.1.1 Test Mode = CDMA /TM1

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.1446	-62.74	-13.00	49.74	Vertical
596.4113	-60.88	-13.00	47.88	Vertical
1672.9346	-54.24	-13.00	41.24	Vertical
2510.7021	-51.12	-13.00	38.12	Vertical
7388.6796	-55.46	-13.00	42.46	Vertical
9874.9292	-51.80	-13.00	38.80	Vertical
43.3867	-62.51	-13.00	49.51	Horizontal
244.8172	-65.46	-13.00	52.46	Horizontal
569.7835	-60.85	-13.00	47.85	Horizontal
1673.3347	-51.43	-13.00	38.43	Horizontal
2510.3021	-45.21	-13.00	32.21	Horizontal
7455.6485	-56.02	-13.00	43.02	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.8189	-70.40	-13.00	57.40	Vertical
115.3643	-62.77	-13.00	49.77	Vertical
563.9147	-63.19	-13.00	50.19	Vertical
1696.1392	-56.97	-13.00	43.97	Vertical
2545.1090	-51.44	-13.00	38.44	Vertical
7999.3333	-55.07	-13.00	42.07	Vertical
45.0358	-62.16	-13.00	49.16	Horizontal
231.9641	-66.23	-13.00	53.23	Horizontal
1696.1392	-51.79	-13.00	38.79	Horizontal
2544.3089	-46.95	-13.00	33.95	Horizontal
6993.8665	-57.75	-13.00	44.75	Horizontal
9565.2855	-52.61	-13.00	39.61	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
52.1171	-70.66	-13.00	57.66	Vertical
108.6224	-62.36	-13.00	49.36	Vertical
461.1381	-64.31	-13.00	51.31	Vertical
1648.9298	-56.63	-13.00	43.63	Vertical
2991.9984	-56.74	-13.00	43.74	Vertical
9876.0959	-51.80	-13.00	38.80	Vertical
40.8160	-62.63	-13.00	49.63	Horizontal
229.3450	-65.81	-13.00	52.81	Horizontal
1649.7299	-52.71	-13.00	39.71	Horizontal
2474.2949	-48.23	-13.00	35.23	Horizontal
7231.6411	-56.85	-13.00	43.85	Horizontal
9546.8516	-52.57	-13.00	39.57	Horizontal



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7.2 Test Band = CDMA BC1

7.2.1.1 Test Mode = CDMA /TM1

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.9644	-71.46	-13.00	58.46	Vertical
110.0290	-65.66	-13.00	52.66	Vertical
528.1199	-66.60	-13.00	53.60	Vertical
2597.1194	-37.17	-13.00	24.17	Vertical
8027.1676	-55.27	-13.00	42.27	Vertical
17993.4998	-39.55	-13.00	26.55	Vertical
45.1813	-64.13	-13.00	51.13	Horizontal
249.1825	-68.44	-13.00	55.44	Horizontal
566.9703	-65.58	-13.00	52.58	Horizontal
2698.7397	-36.48	-13.00	23.48	Horizontal
7461.1487	-55.93	-13.00	42.93	Horizontal
16391.9464	-42.95	-13.00	29.95	Horizontal

7.2.1.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.3525	-71.42	-13.00	58.42	Vertical
110.2230	-66.33	-13.00	53.33	Vertical
502.1711	-66.18	-13.00	53.18	Vertical
2601.9204	-36.42	-13.00	23.42	Vertical
8815.1938	-54.39	-13.00	41.39	Vertical
17997.4999	-39.85	-13.00	26.85	Vertical
44.6477	-62.32	-13.00	49.32	Horizontal
238.3664	-69.15	-13.00	56.15	Horizontal
610.0405	-63.96	-13.00	50.96	Horizontal
2607.1214	-36.47	-13.00	23.47	Horizontal
7457.1486	-56.12	-13.00	43.12	Horizontal
16399.9467	-43.57	-13.00	30.57	Horizontal



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7.2.1.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.8560	-71.23	-13.00	58.23	Vertical
108.4769	-65.38	-13.00	52.38	Vertical
380.6725	-68.42	-13.00	55.42	Vertical
2698.3397	-37.46	-13.00	24.46	Vertical
7257.1419	-56.82	-13.00	43.82	Vertical
17995.9999	-39.31	-13.00	26.31	Vertical
41.5436	-64.61	-13.00	51.61	Horizontal
243.9927	-68.33	-13.00	55.33	Horizontal
658.3974	-64.18	-13.00	51.18	Horizontal
2700.3401	-36.55	-13.00	23.55	Horizontal
7461.6487	-55.40	-13.00	42.40	Horizontal
16390.9464	-43.19	-13.00	30.19	Horizontal

7.2.2 Test Band = CDMA BC10

7.2.2.1 Test Mode = CDMA/TM1

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.2555	-70.48	-13.00	57.48	Vertical
105.8093	-62.60	-13.00	49.60	Vertical
1636.5273	-59.19	-13.00	46.19	Vertical
2454.2909	-51.01	-13.00	38.01	Vertical
5063.6688	-61.58	-13.00	48.58	Vertical
9772.0257	-52.04	-13.00	39.04	Vertical
46.2968	-61.92	-13.00	48.92	Horizontal
243.3137	-65.68	-13.00	52.68	Horizontal
1635.3271	-55.40	-13.00	42.40	Horizontal
2454.2909	-45.55	-13.00	32.55	Horizontal
5472.7158	-61.27	-13.00	48.27	Horizontal
9553.3851	-52.66	-13.00	39.66	Horizontal



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7.2.2.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.8189	-69.64	-13.00	56.64	Vertical
117.9834	-62.52	-13.00	49.52	Vertical
386.7838	-65.01	-13.00	52.01	Vertical
1640.9282	-59.38	-13.00	46.38	Vertical
2462.2925	-49.54	-13.00	36.54	Vertical
9898.7300	-51.98	-13.00	38.98	Vertical
43.0957	-62.19	-13.00	49.19	Horizontal
229.3935	-65.37	-13.00	52.37	Horizontal
605.2873	-61.54	-13.00	48.54	Horizontal
1640.9282	-54.48	-13.00	41.48	Horizontal
2460.6921	-44.14	-13.00	31.14	Horizontal
9360.8787	-52.47	-13.00	39.47	Horizontal

7.2.2.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.5165	-69.97	-13.00	56.97	Vertical
112.3086	-63.39	-13.00	50.39	Vertical
1645.7291	-58.75	-13.00	45.75	Vertical
2469.8940	-50.75	-13.00	37.75	Vertical
5035.2012	-61.89	-13.00	48.89	Vertical
9328.4443	-52.50	-13.00	39.50	Vertical
45.2783	-62.62	-13.00	49.62	Horizontal
240.0640	-65.30	-13.00	52.30	Horizontal
1646.5293	-53.95	-13.00	40.95	Horizontal
2469.8940	-45.31	-13.00	32.31	Horizontal
3774.4591	-61.01	-13.00	48.01	Horizontal
9315.6105	-52.15	-13.00	39.15	Horizontal

NOTE:

- 1) The disturbance above 12.75GHz and 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.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC0	CDMA/TM1	LCH	TN	VL	2.28	0.00276	PASS
				VN	-0.38	-0.00046	PASS
				VH	0.02	0.00002	PASS
		MCH	TN	VL	1.83	0.00219	PASS
				VN	0.75	0.00090	PASS
				VH	-1.37	-0.00164	PASS
		HCH	TN	VL	1.64	0.00193	PASS
				VN	-2.64	-0.00311	PASS
				VH	-4.34	-0.00512	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC1	CDMA/TM1	LCH	TN	VL	-4.32	-0.00233	PASS
				VN	-1.44	-0.00078	PASS
				VH	2.32	0.00125	PASS
		MCH	TN	VL	-5.84	-0.00311	PASS
				VN	2.34	0.00124	PASS
				VH	-0.75	-0.00040	PASS
		HCH	TN	VL	0.65	0.00034	PASS
				VN	-3.42	-0.00179	PASS
				VH	3.80	0.00199	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMAB10	CDMA/TM1	LCH	TN	VL	-3.35	-0.00410	PASS
				VN	-0.48	-0.00059	PASS
				VH	2.32	0.00284	PASS
		MCH	TN	VL	-3.85	-0.00469	PASS
				VN	1.34	0.00163	PASS
				VH	-2.45	-0.00299	PASS
		HCH	TN	VL	1.75	0.00213	PASS
				VN	-4.51	-0.00548	PASS
				VH	2.84	0.00345	PASS



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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC0	CDMA/TM1	LCH	VN	-30	-4.75	-0.00576	PASS
				-20	2.60	0.00315	PASS
				-10	0.67	0.00081	PASS
				0	-2.68	-0.00325	PASS
				10	3.56	0.00432	PASS
				20	-4.80	-0.00582	PASS
				30	1.60	0.00194	PASS
				40	-2.04	-0.00247	PASS
				50	-6.01	-0.00729	PASS
		MCH	VN	-30	-3.20	-0.00383	PASS
				-20	-5.08	-0.00607	PASS
				-10	-1.39	-0.00166	PASS
				0	-3.38	-0.00404	PASS
				10	1.31	0.00157	PASS
				20	2.72	0.00325	PASS
				30	1.61	0.00192	PASS
				40	3.13	0.00374	PASS
				50	-4.35	-0.00520	PASS
		HCH	VN	-30	-2.17	-0.00256	PASS
				-20	3.68	0.00434	PASS
				-10	2.55	0.00301	PASS
				0	-5.52	-0.00651	PASS
				10	1.37	0.00161	PASS
				20	-2.78	-0.00328	PASS
				30	3.64	0.00429	PASS
				40	-4.63	-0.00546	PASS
				50	-2.60	-0.00306	PASS



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CDMA BC1	CDMA/TM1	LCH	VN	-30	-2.49	-0.00135	PASS
				-20	1.96	0.00106	PASS
				-10	-5.97	-0.00322	PASS
				0	0.59	0.00032	PASS
				10	-4.65	-0.00251	PASS
				20	-4.11	-0.00222	PASS
				30	-3.96	-0.00214	PASS
				40	-5.71	-0.00308	PASS
				50	-2.74	-0.00148	PASS
		MCH	VN	-30	-1.94	-0.00103	PASS
				-20	3.29	0.00175	PASS
				-10	-4.34	-0.00231	PASS
				0	1.75	0.00093	PASS
				10	-5.10	-0.00271	PASS
				20	-3.43	-0.00182	PASS
				30	-2.13	-0.00113	PASS
				40	-2.50	-0.00133	PASS
				50	-3.50	-0.00186	PASS
		HCH	VN	-30	-3.25	-0.00170	PASS
				-20	-6.34	-0.00332	PASS
				-10	-2.73	-0.00143	PASS
				0	-5.34	-0.00280	PASS
				10	1.62	0.00085	PASS
				20	-4.03	-0.00211	PASS
				30	-3.22	-0.00169	PASS
				40	-1.84	-0.00096	PASS
				50	-5.07	-0.00266	PASS



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CDMA BC10	CDMA/TM1	LCH	VN	-30	-3.43	-0.00419	PASS
				-20	-4.55	-0.00556	PASS
				-10	1.94	0.00237	PASS
				0	-3.47	-0.00424	PASS
				10	-2.58	-0.00315	PASS
				20	1.08	0.00132	PASS
				30	-3.84	-0.00469	PASS
				40	-5.30	-0.00648	PASS
				50	-4.34	-0.00531	PASS
		MCH	VN	-30	-2.92	-0.00356	PASS
				-20	1.27	0.00155	PASS
				-10	-5.43	-0.00662	PASS
				0	4.84	0.00590	PASS
				10	-3.23	-0.00394	PASS
				20	-6.59	-0.00803	PASS
				30	-2.27	-0.00277	PASS
				40	-8.13	-0.00991	PASS
				50	-4.11	-0.00501	PASS
		HCH	VN	-30	-2.35	-0.00286	PASS
				-20	3.63	0.00441	PASS
				-10	1.85	0.00225	PASS
				0	-5.34	-0.00649	PASS
				10	-2.18	-0.00265	PASS
				20	-4.16	-0.00505	PASS
				30	1.36	0.00165	PASS
				40	-2.92	-0.00355	PASS
				50	-4.24	-0.00515	PASS

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