

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	24.11	26.51	33	PASS
		MCH	24.09	26.49	33	PASS
		HCH	24.26	26.66	33	PASS

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP [dBm]	Limit[dBm]	Verdict
CDMA BC0	CDMA /TM1	LCH	23.74	22.09	38.45	PASS
		MCH	23.85	22.2	38.45	PASS
		HCH	23.72	22.07	38.45	PASS
CDMA BC10	CDMA /TM1	LCH	23.45	21.8	50.00	PASS
		MCH	23.32	21.67	50.00	PASS
		HCH	23.29	21.64	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	4.41	13	PASS
		MCH	4.26	13	PASS
		HCH	4.29	13	PASS
BC1	CDMA /TM1	LCH	3.57	13	PASS
		MCH	3.68	13	PASS
		HCH	3.22	13	PASS
BC10	CDMA/TM1	LCH	4.32	13	PASS
		MCH	4.41	13	PASS
		HCH	4.41	13	PASS

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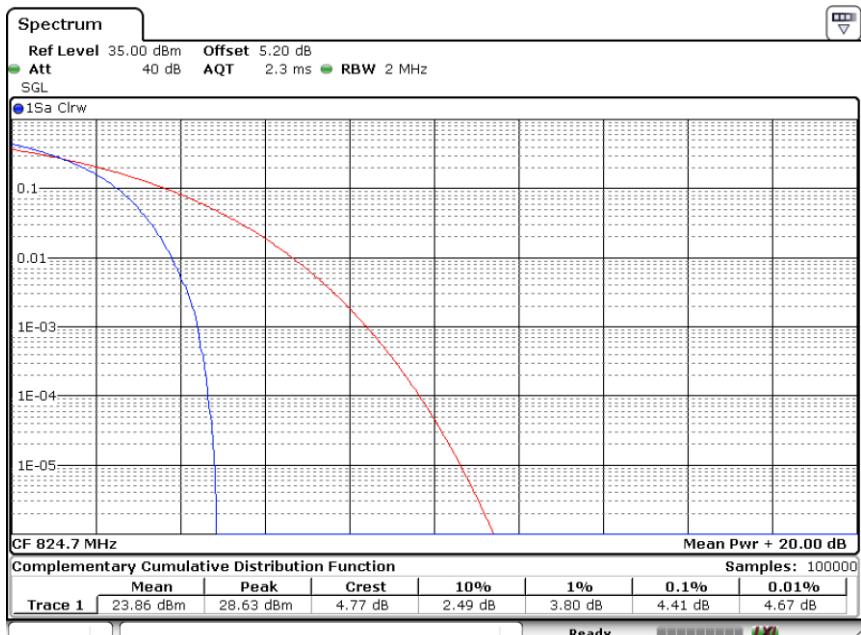
Part II - Test Plots

2.1 For CDMA

2.1.1 Test Band = CDMA BC0

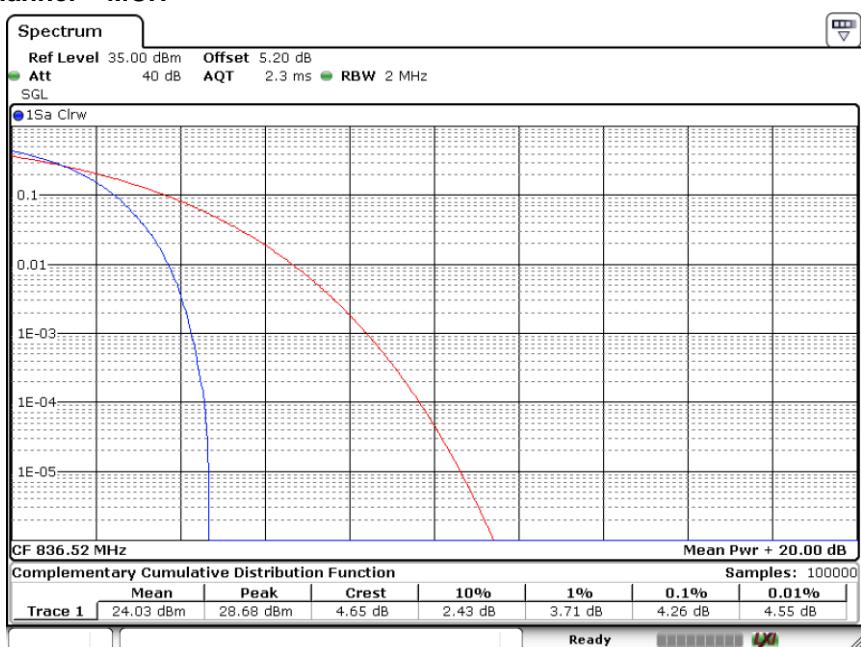
2.1.1.1 Test Mode = CDMA /TM1

2.1.1.1.1 Test Channel = LCH



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2.1.1.1.2 Test Channel = MCH



Date: 9.SEP.2020 10:29:56

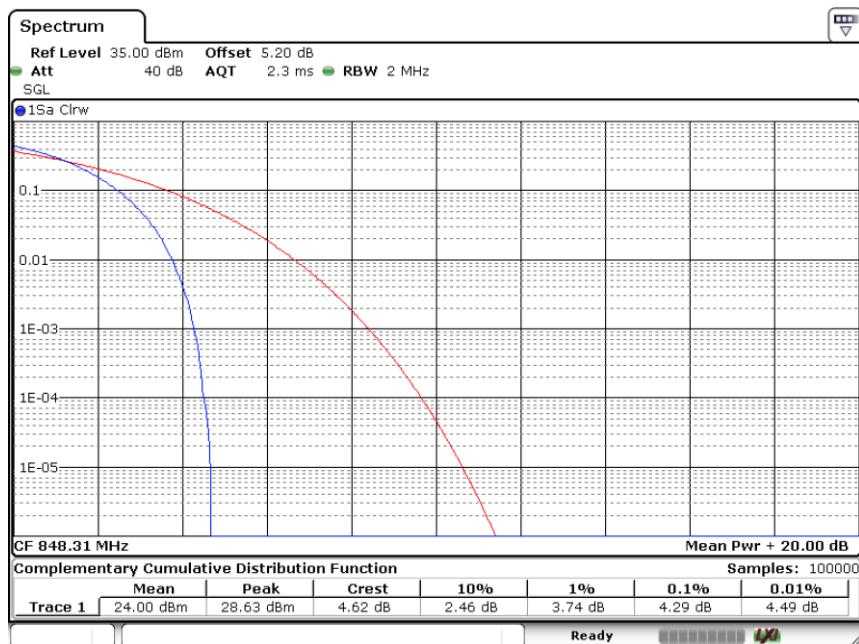
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2.1.1.1.3 Test Channel = HCH

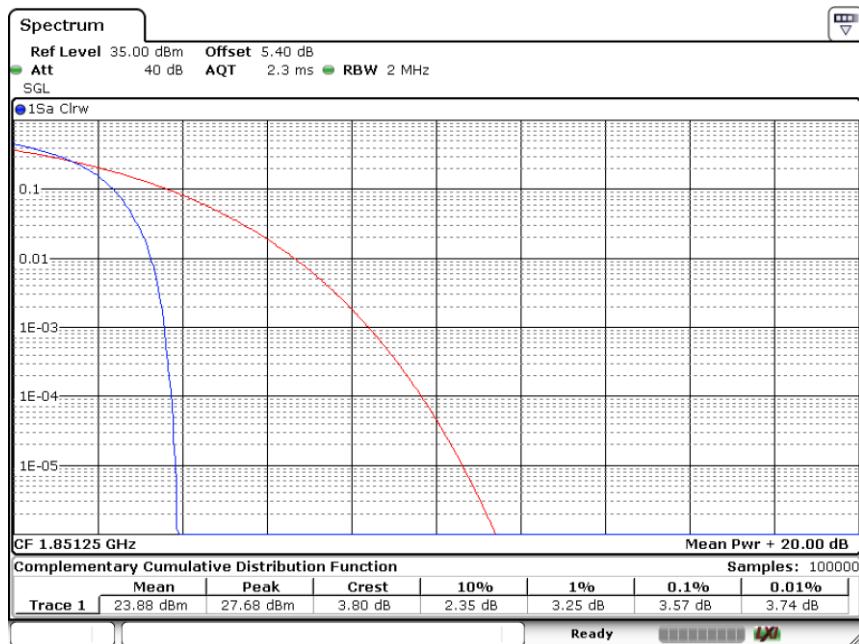


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2.1.2 Test Band = CDMA BC1

2.1.2.1 Test Mode = CDMA /TM1

2.1.2.1.1 Test Channel = LCH



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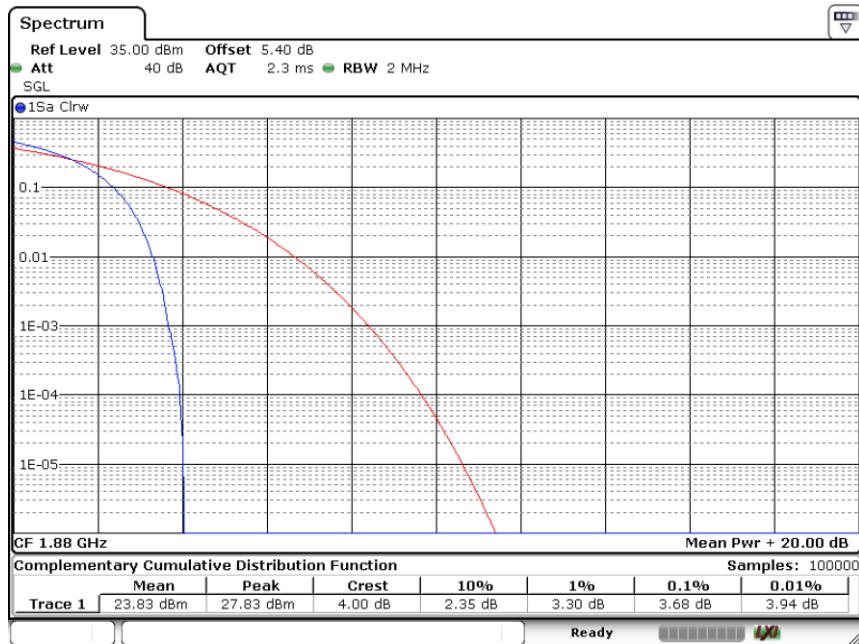
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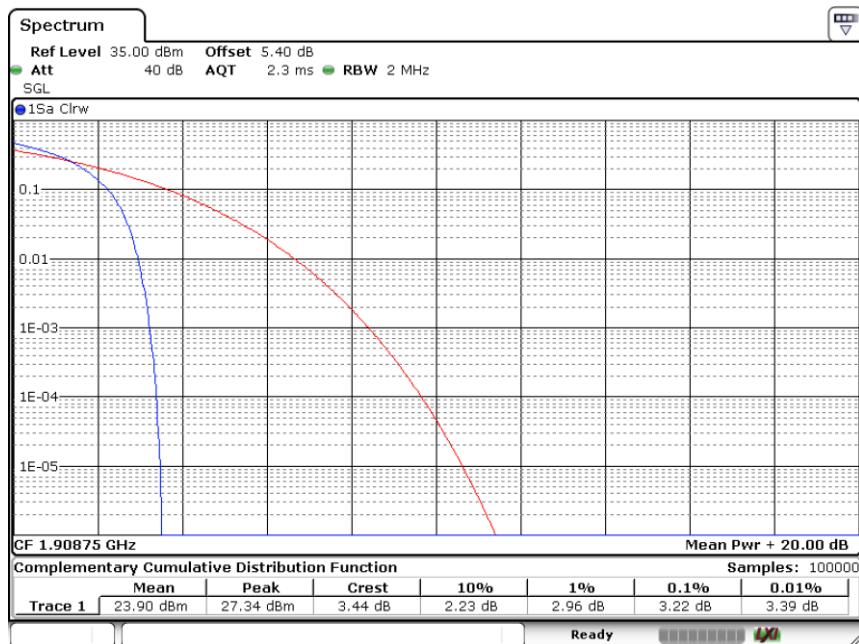
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2.1.2.1.2 Test Channel = MCH



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2.1.2.1.3 Test Channel = HCH



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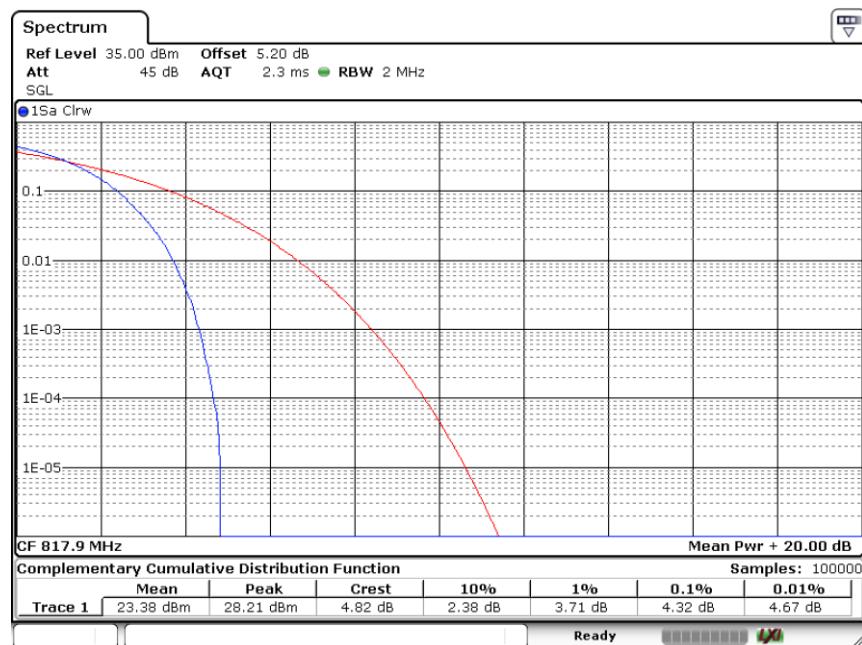
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2.1.3 Test Band = CDMA BC10

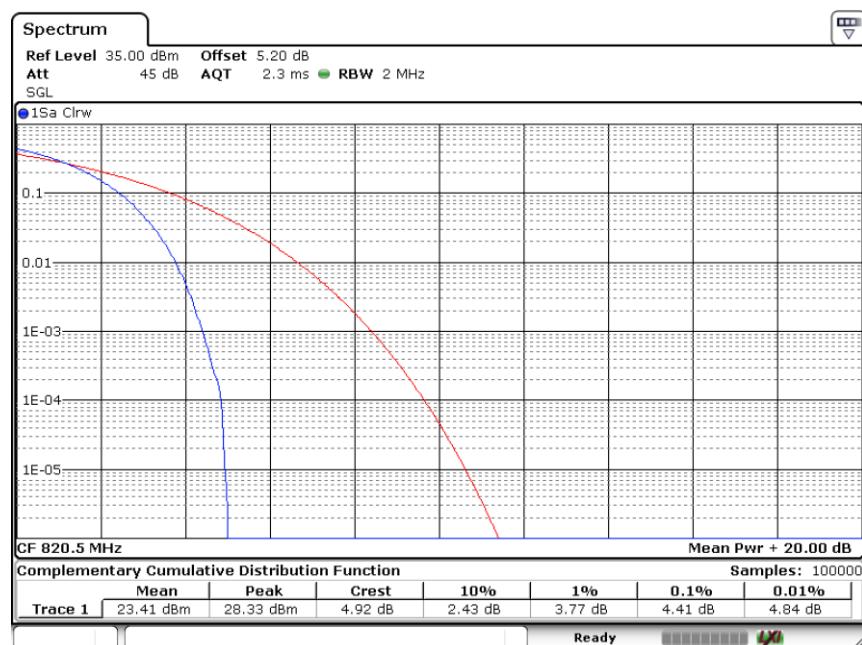
2.1.3.1 Test Mode = CDMA /TM1

2.1.3.1.1 Test Channel = LCH



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2.1.3.1.2 Test Channel = MCH



Date: 9.SEP.2020 11:15:36

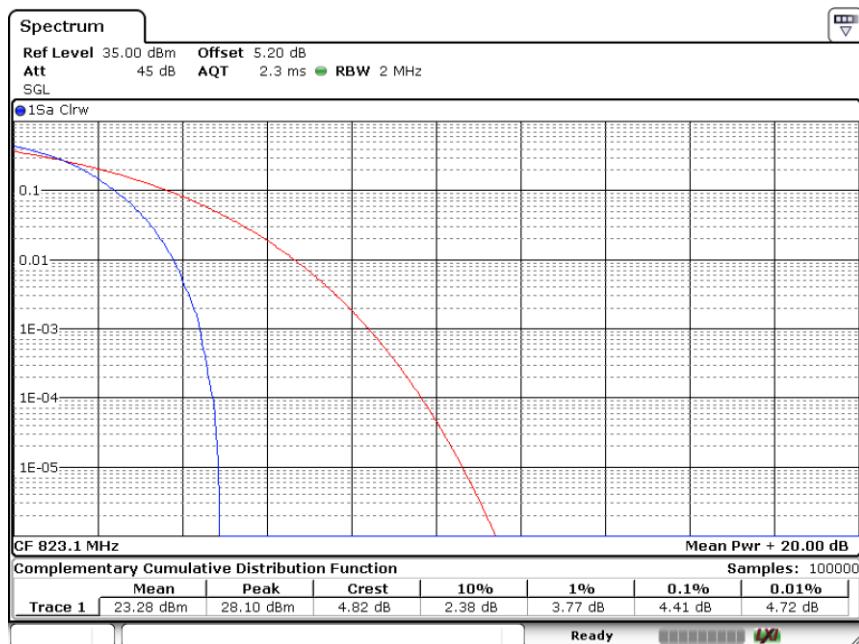
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2.1.3.1.3 Test Channel = HCH



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3 Modulation Characteristics

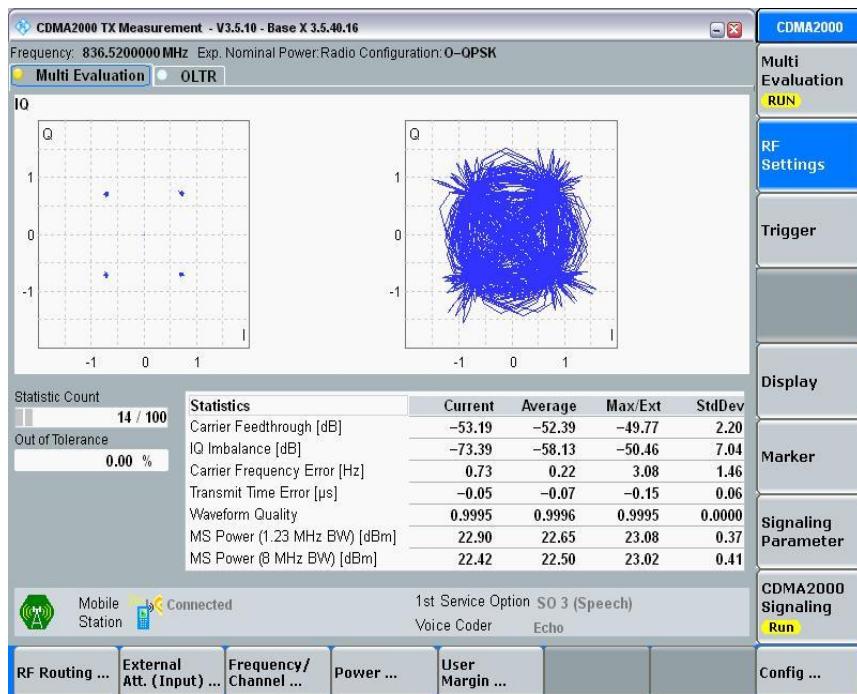
Part I - Test Plots

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



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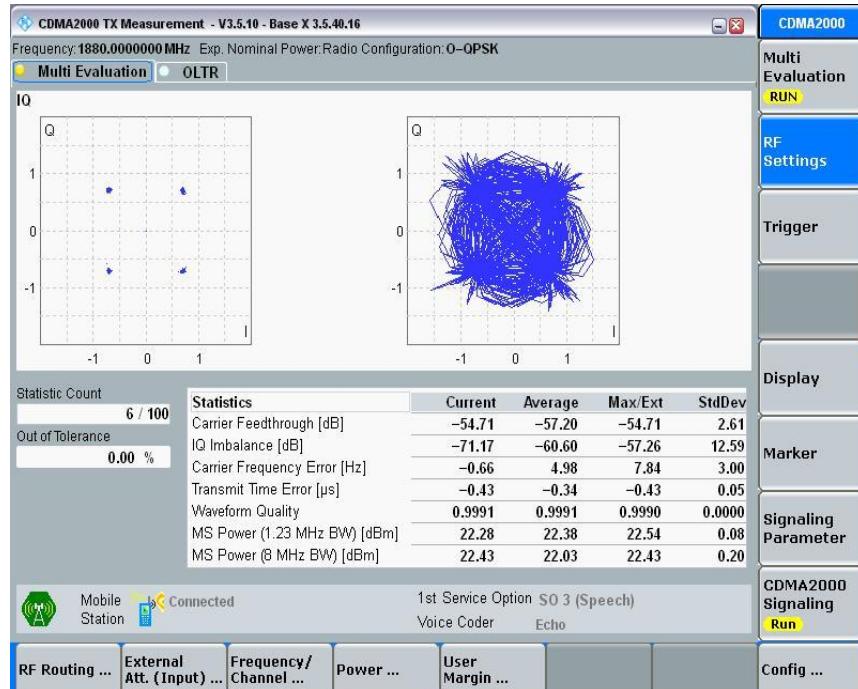
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3.1.2 Test Band = CDMA BC1

3.1.2.1 Test Mode = CDMA /TM1

3.1.2.1.1 Test Channel = MCH



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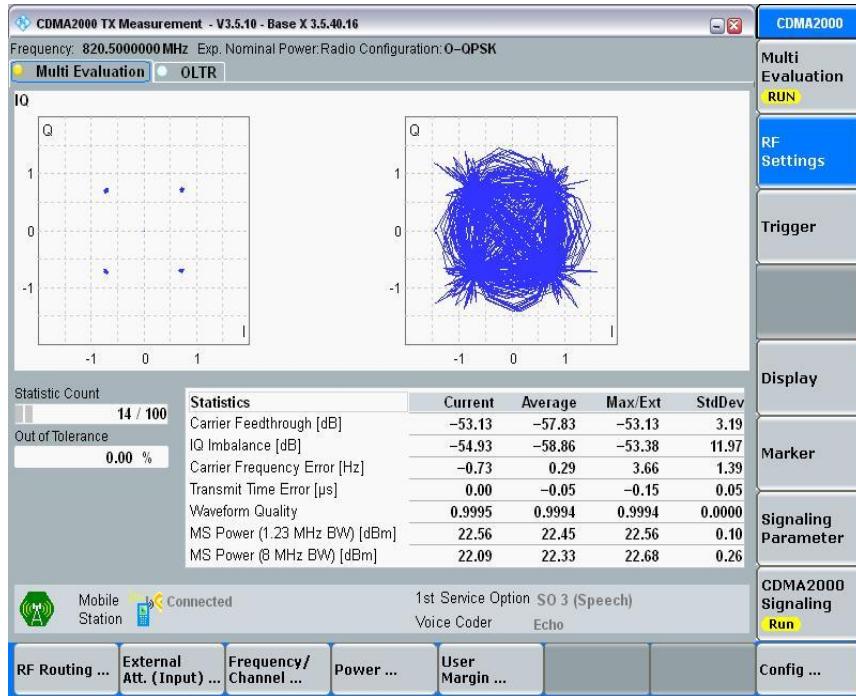
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3.1.3 Test Band = CDMA BC10

3.1.3.1 Test Mode = CDMA /TM1

3.1.3.1.1 Test Channel = MCH



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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CDMA BC0	CDMA/TM1	LCH	1.276	1.433	PASS
		MCH	1.276	1.437	PASS
		HCH	1.276	1.433	PASS
CDMA BC1	CDMA/TM1	LCH	1.296	1.463	PASS
		MCH	1.294	1.489	PASS
		HCH	1.320	1.789	PASS
CDMA BC10	CDMA/TM1	LCH	1.276	1.437	PASS
		MCH	1.276	1.437	PASS
		HCH	1.276	1.433	PASS

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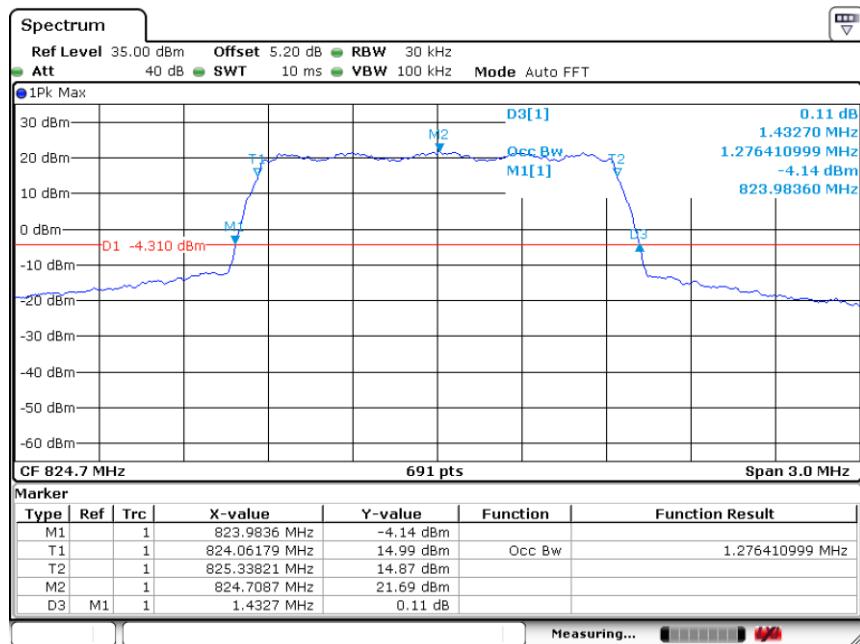
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4.1 For CDMA

4.1.1 Test Band = CDMA BC0

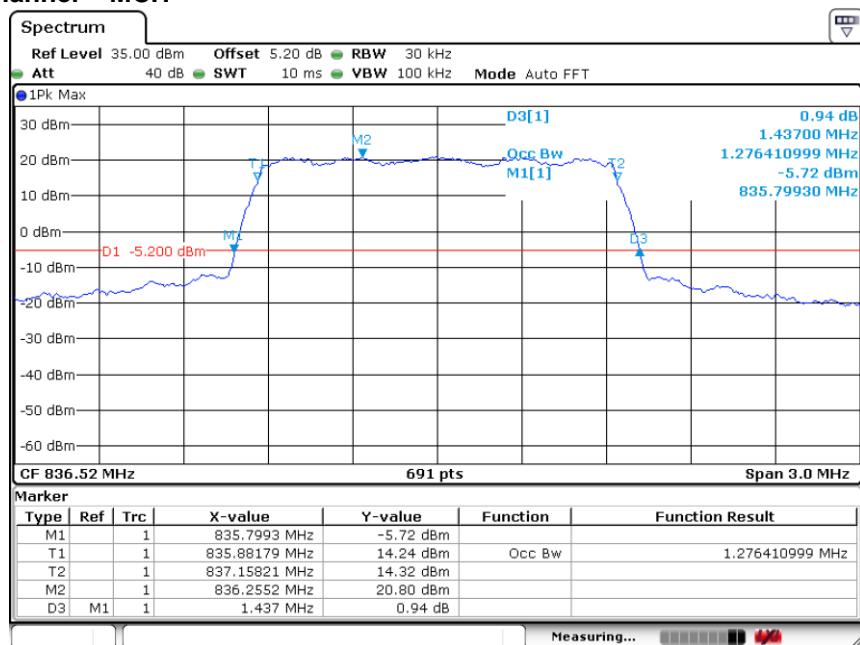
4.1.1.1 Test Mode = CDMA /TM1

4.1.1.1.1 Test Channel = LCH



Date: 9.SEP.2020 09:49:58

4.1.1.1.2 Test Channel = MCH



Date: 9.SEP.2020 09:35:51

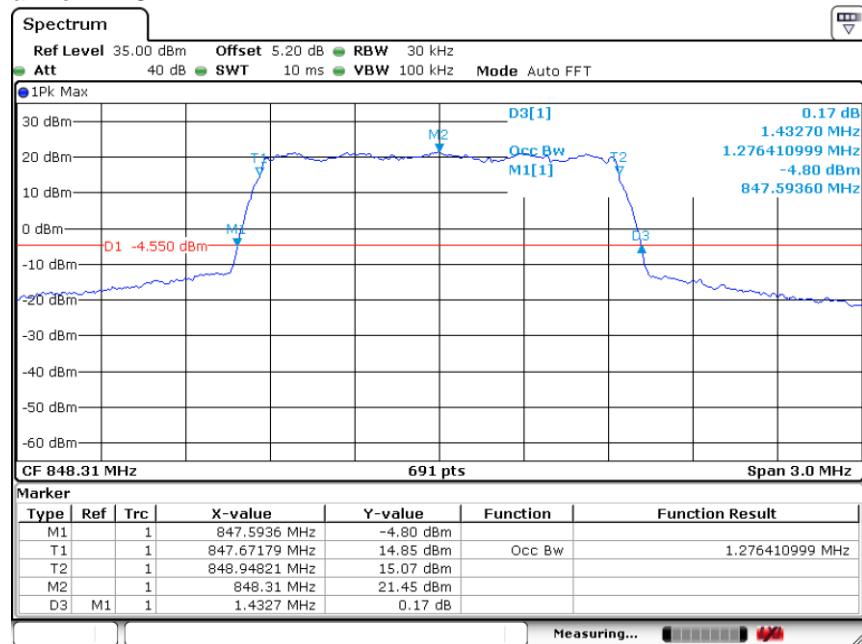
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4.1.1.1.3 Test Channel = HCH

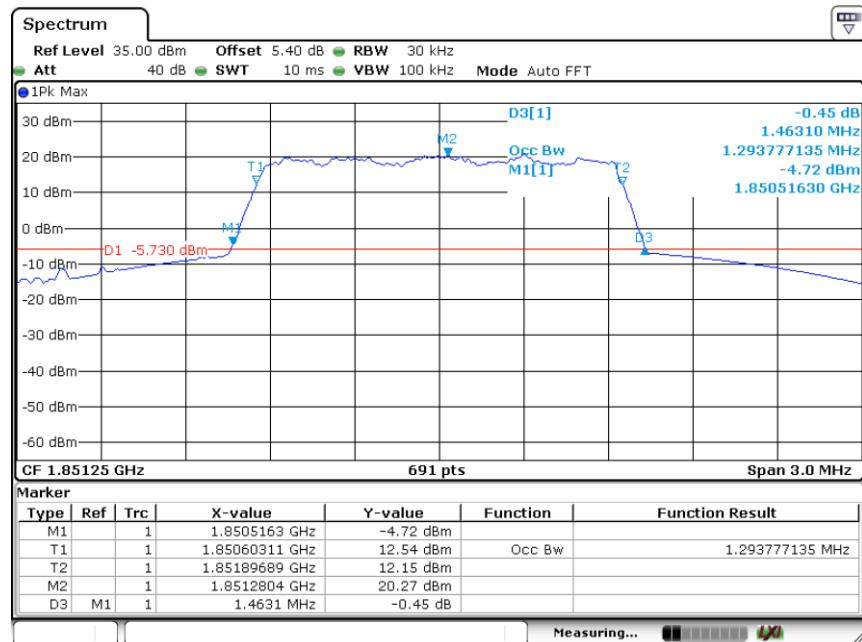


Date: 9 SEP 2020 09:39:27

4.1.2 Test Band = CDMA BC1

4.1.2.1 Test Mode = CDMA /TM1

4.1.2.1.1 Test Channel = LCH



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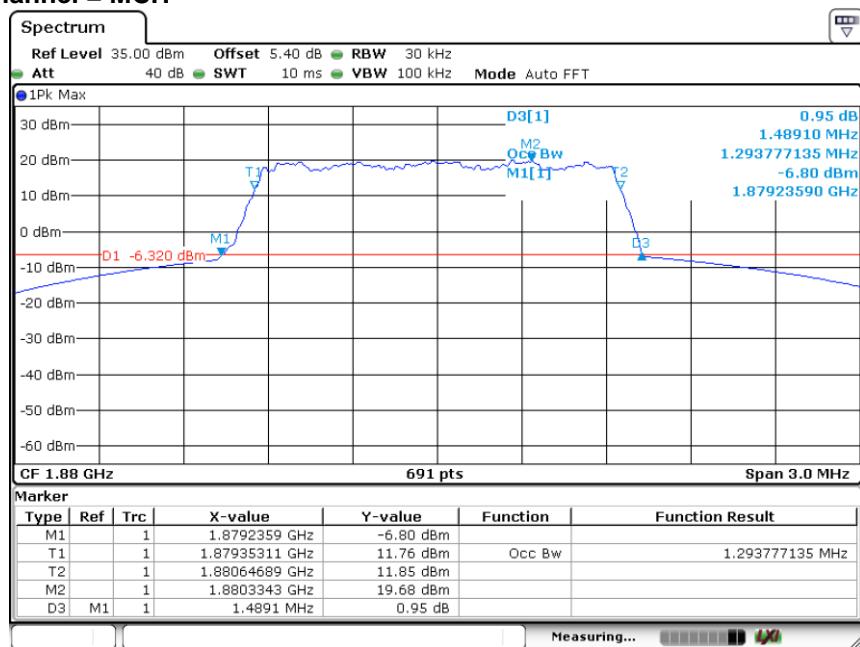
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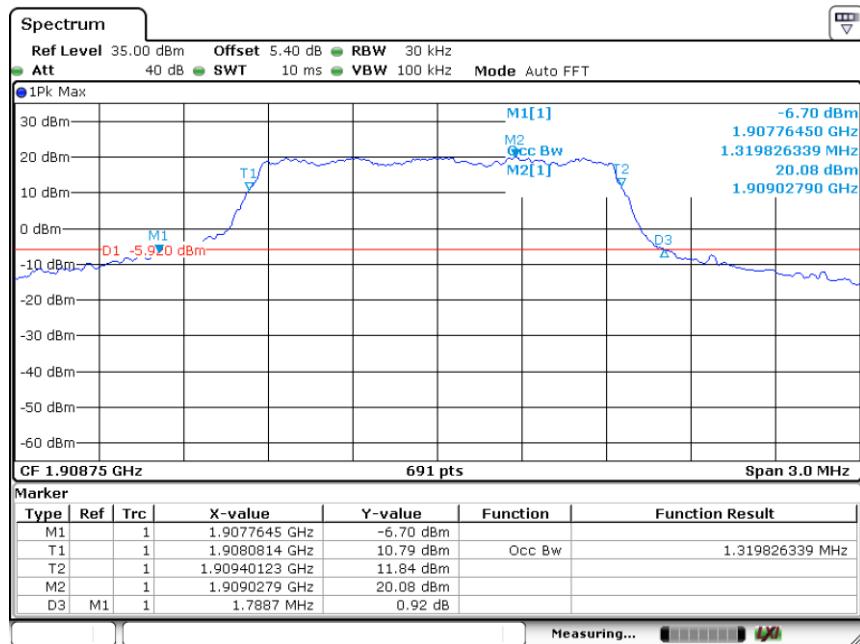
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4.1.2.1.2 Test Channel = MCH



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4.1.2.1.3 Test Channel = HCH



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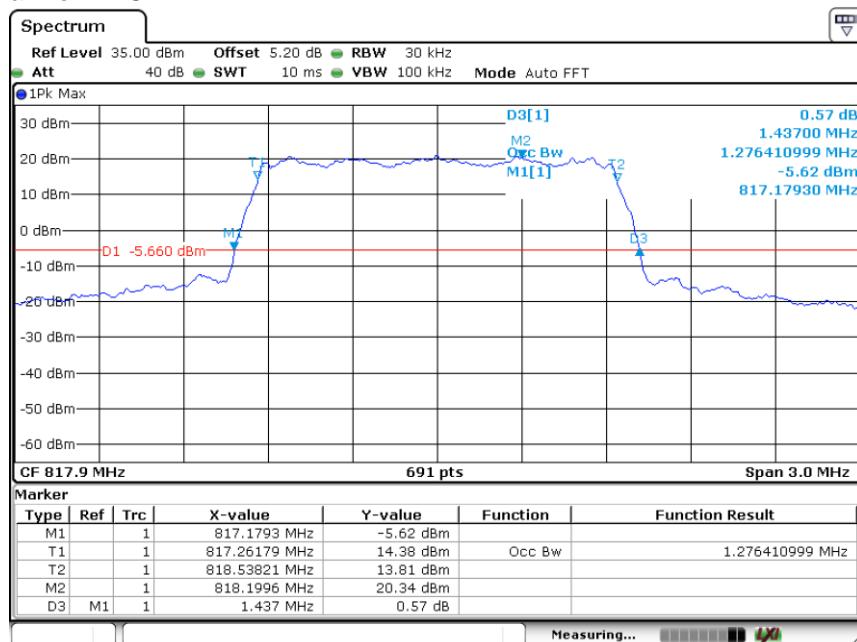


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4.1.3 Test Band = CDMA BC10

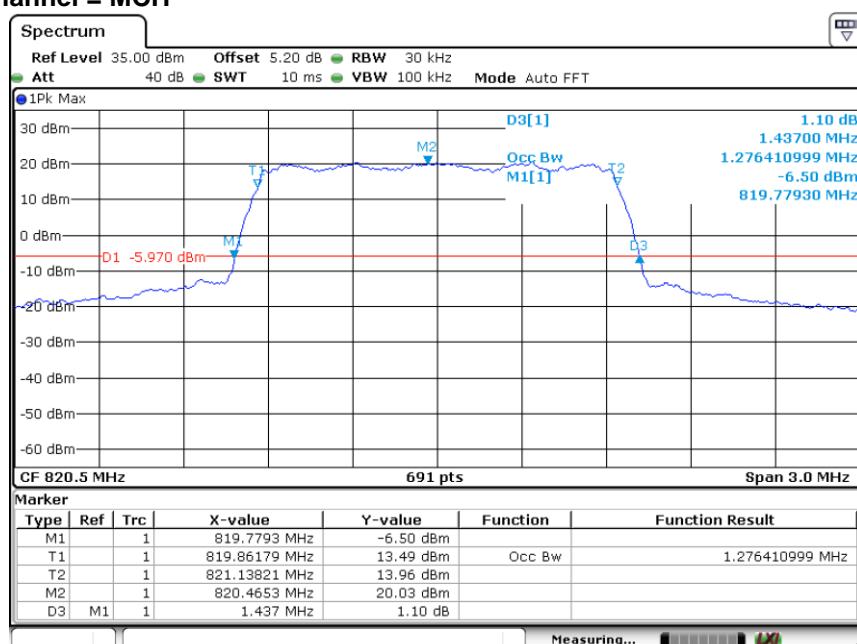
4.1.3.1 Test Mode = CDMA /TM1

4.1.3.1.1 Test Channel = LCH



Date: 9.SEP.2020 11:10:49

4.1.3.1.2 Test Channel = MCH



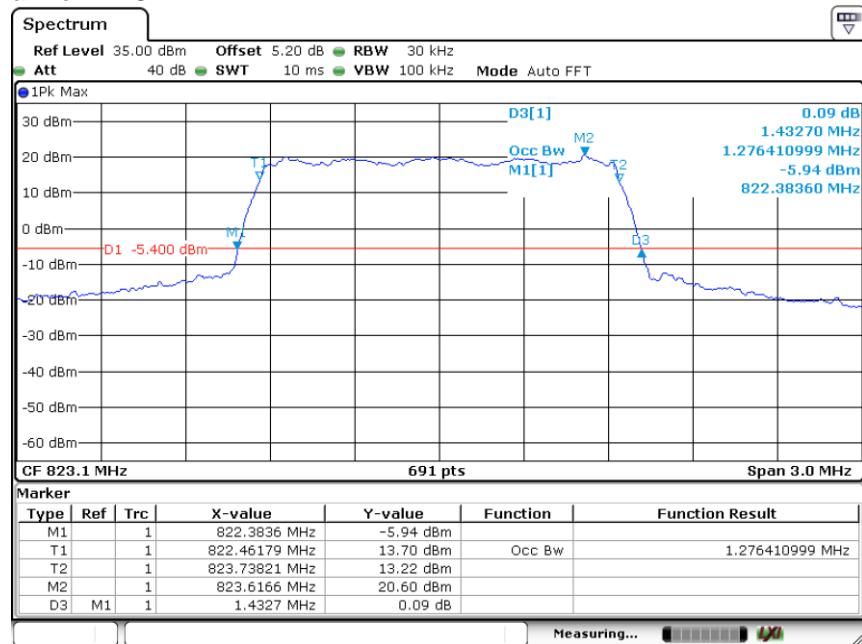
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4.1.3.1.3 Test Channel = HCH



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5 Band Edges Compliance

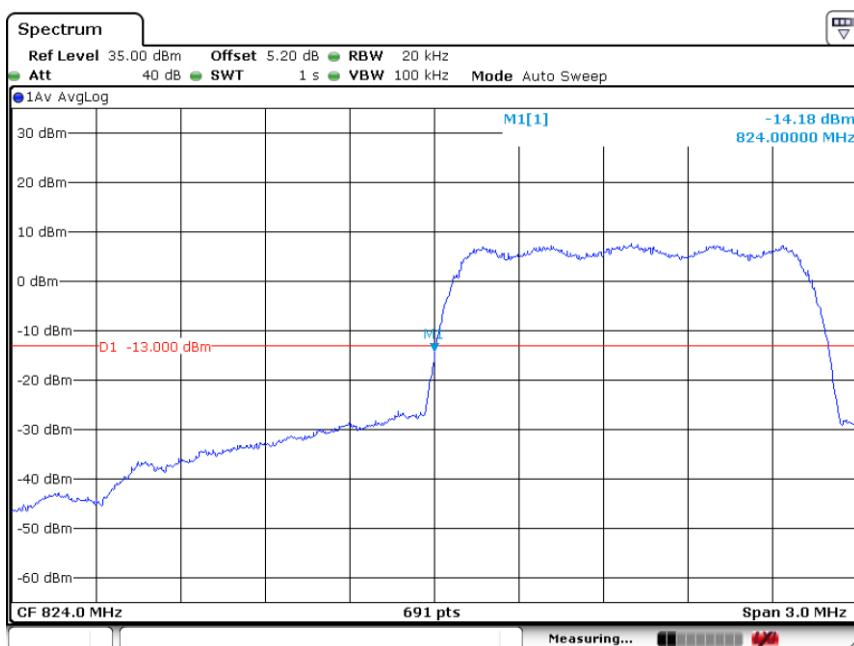
Part I - Test Plots

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



Date: 9.SEP.2020 09:52:10

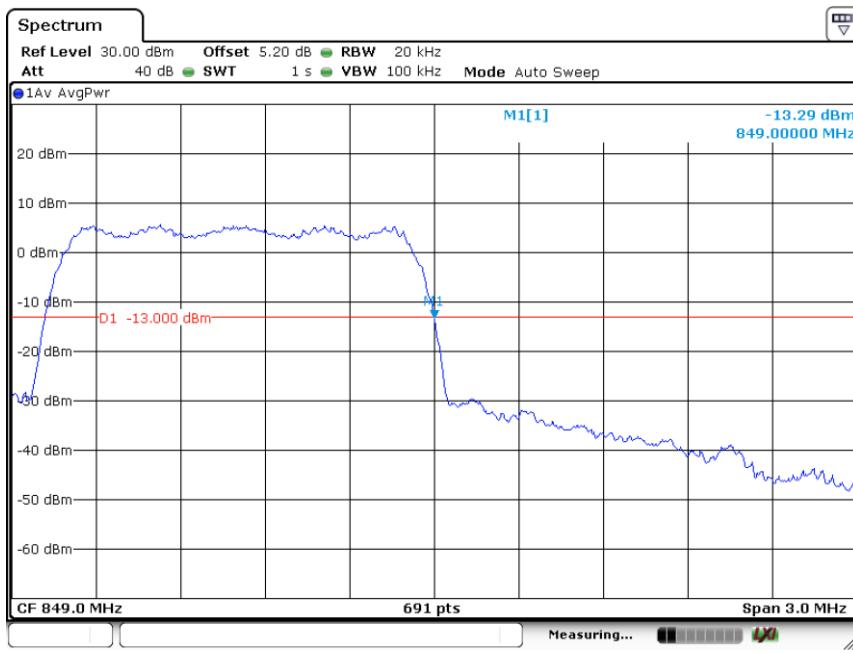
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5.1.1.1.2 Test Channel = HCH

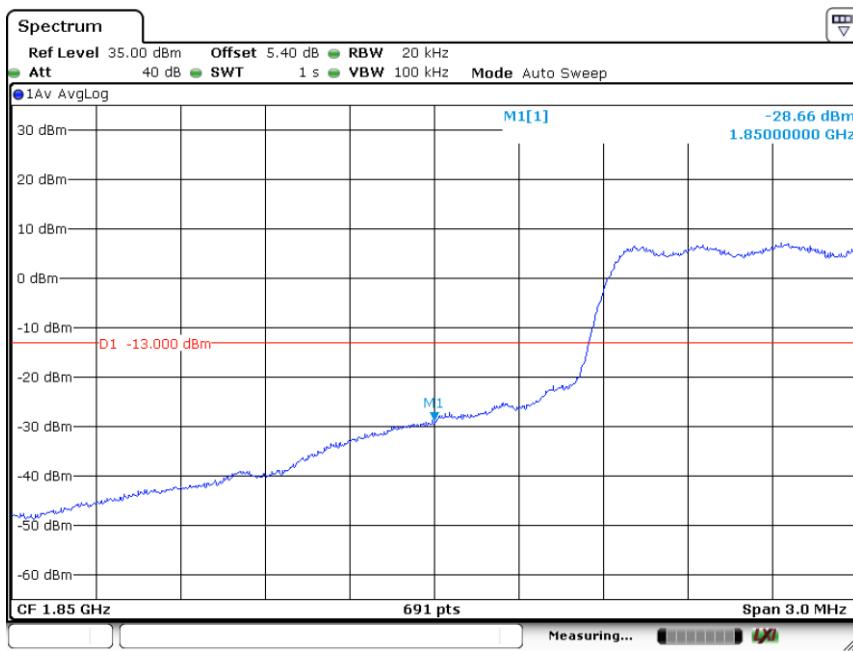


Date: 9 SEP 2020 11:21:11

5.1.2 Test Band = CDMA BC1

5.1.2.1 Test Mode = CDMA /TM1

5.1.2.1.1 Test Channel = LCH



Date: 9 SEP 2020 11:06:32

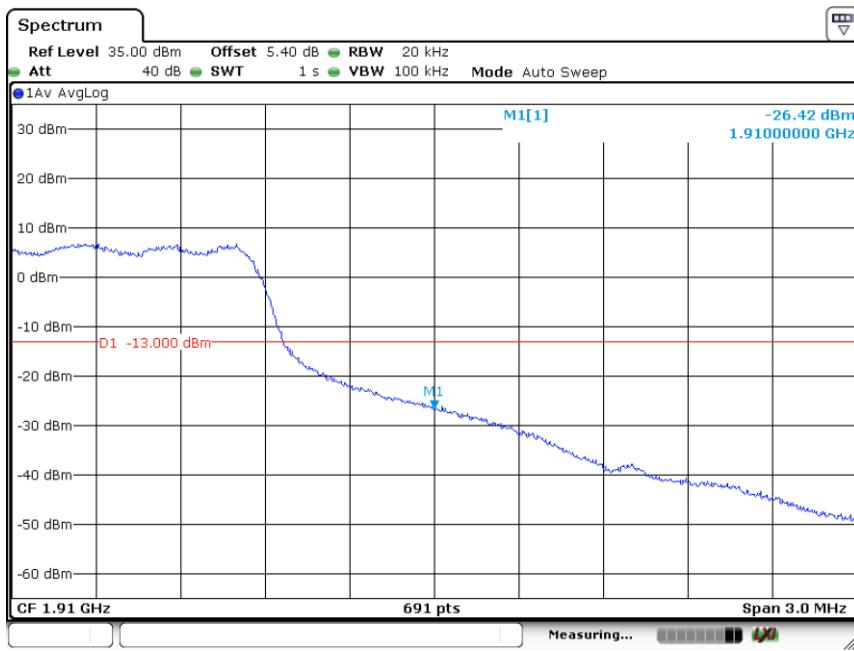
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5.1.2.1.2 Test Channel = HCH

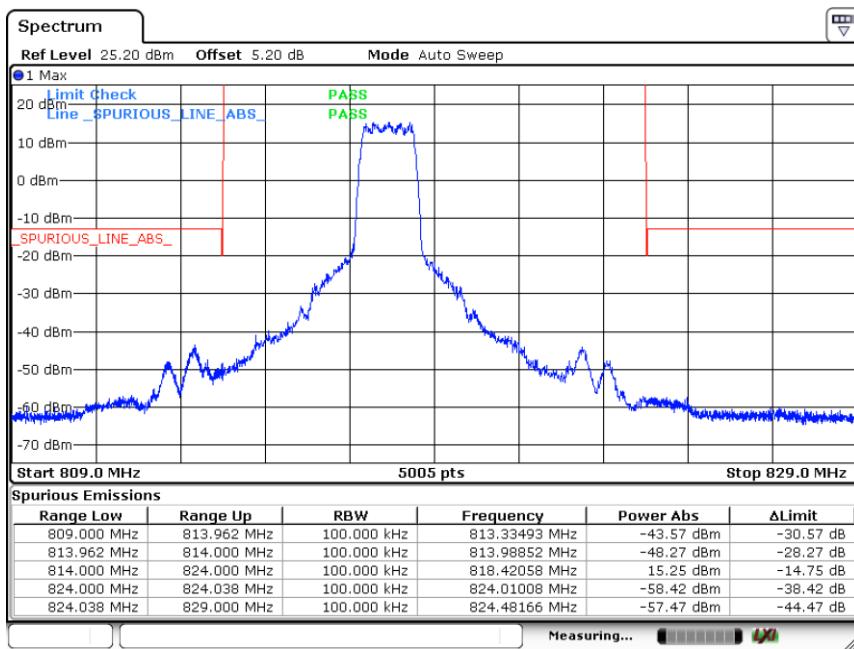


Date: 9 SEP 2020 11:05:59

5.1.3 Test Band = CDMA BC10

5.1.3.1 Test Mode = CDMA /TM1

5.1.3.1.1 Test Channel = LCH



Date: 9 SEP 2020 11:13:55

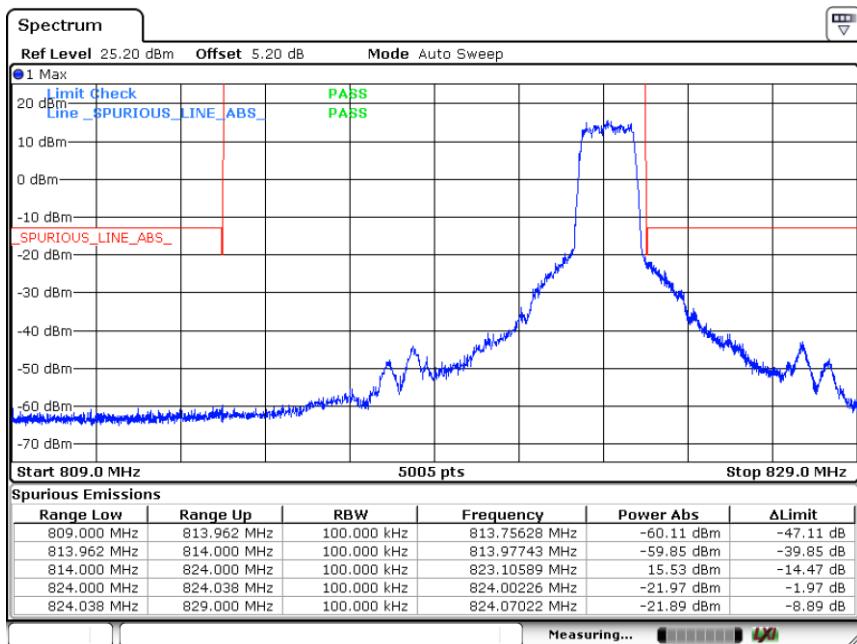
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5.1.3.1.2 Test Channel = HCH



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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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

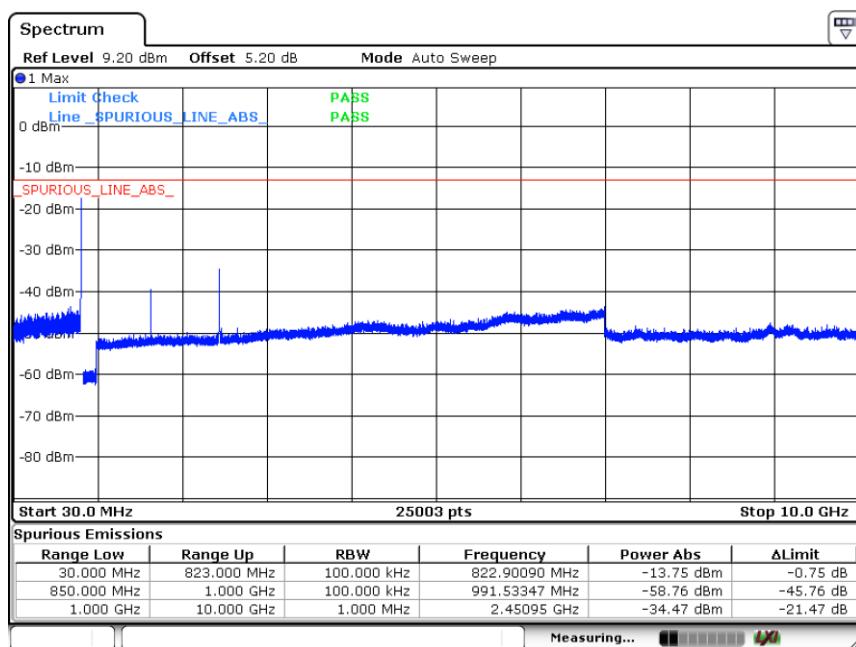
Part I - Test Plots

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



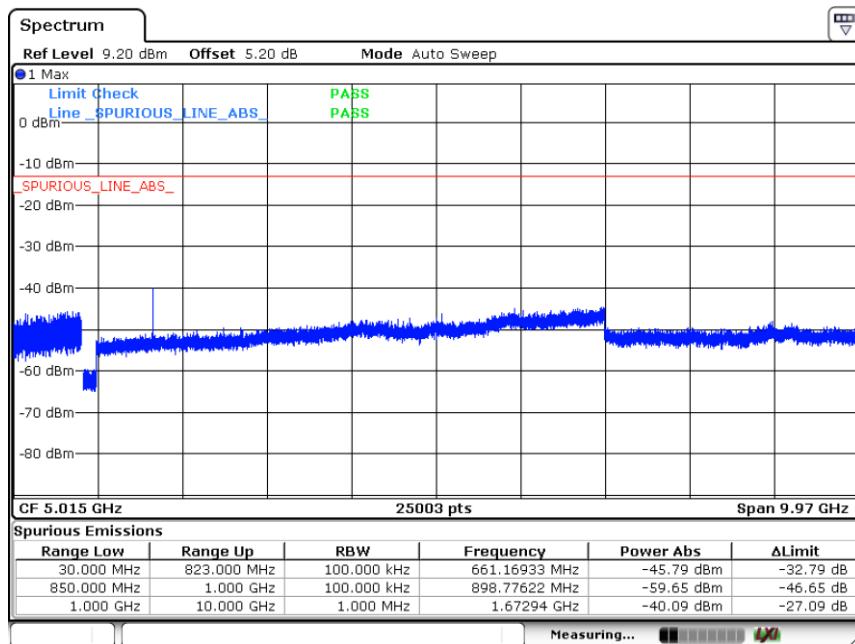
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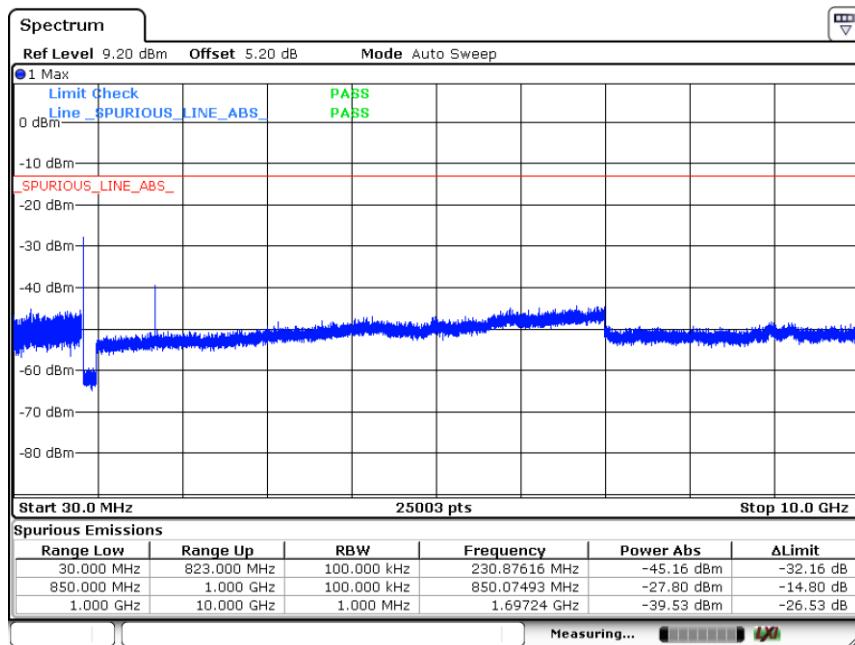
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6.1.1.1.2 Test Channel = MCH



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6.1.1.1.3 Test Channel = HCH



Date: 9 SEP 2020 10:33:02

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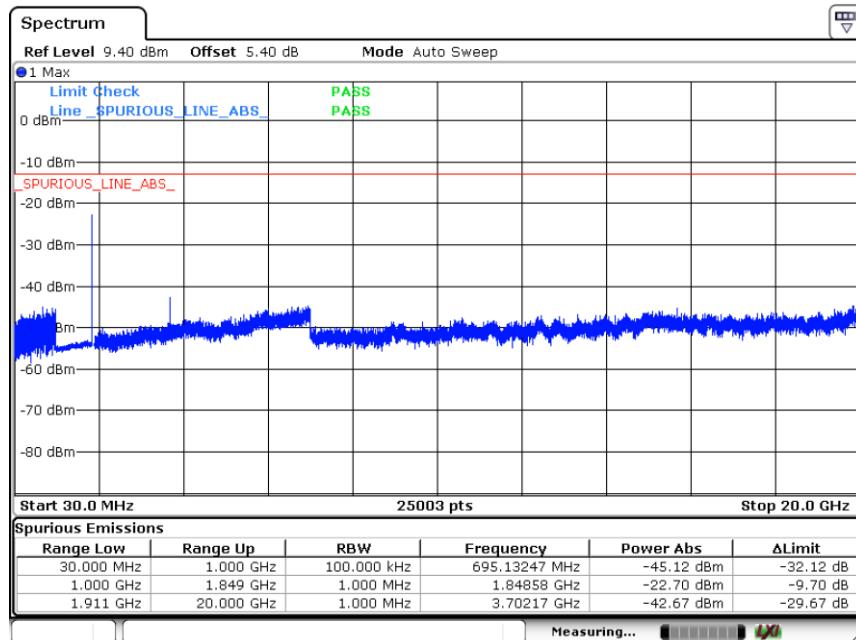


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6.1.2 Test Band = CDMA BC1

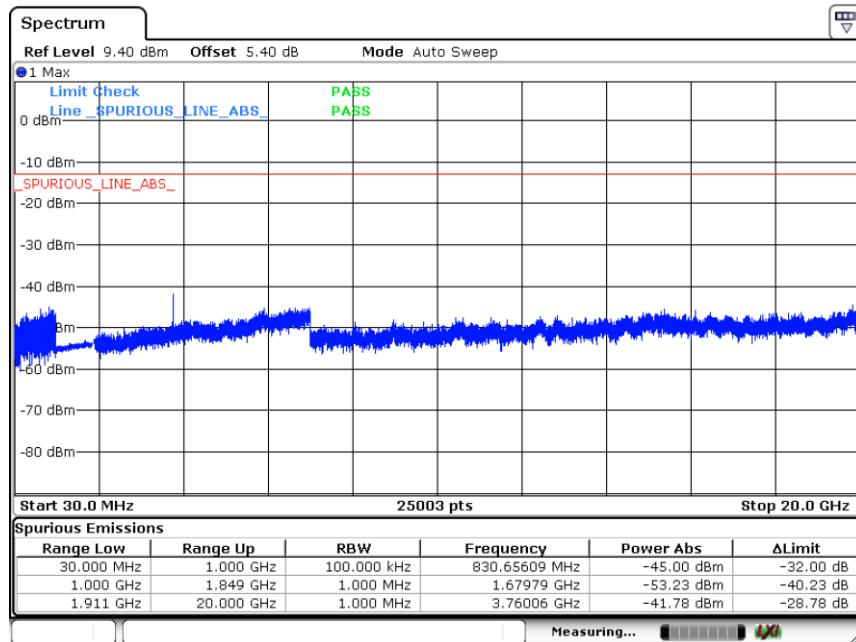
6.1.2.1 Test Mode = CDMA /TM1

6.1.2.1.1 Test Channel = LCH



Date: 9.SEP.2020 11:08:55

6.1.2.1.2 Test Channel = MCH



Date: 9.SEP.2020 11:08:43

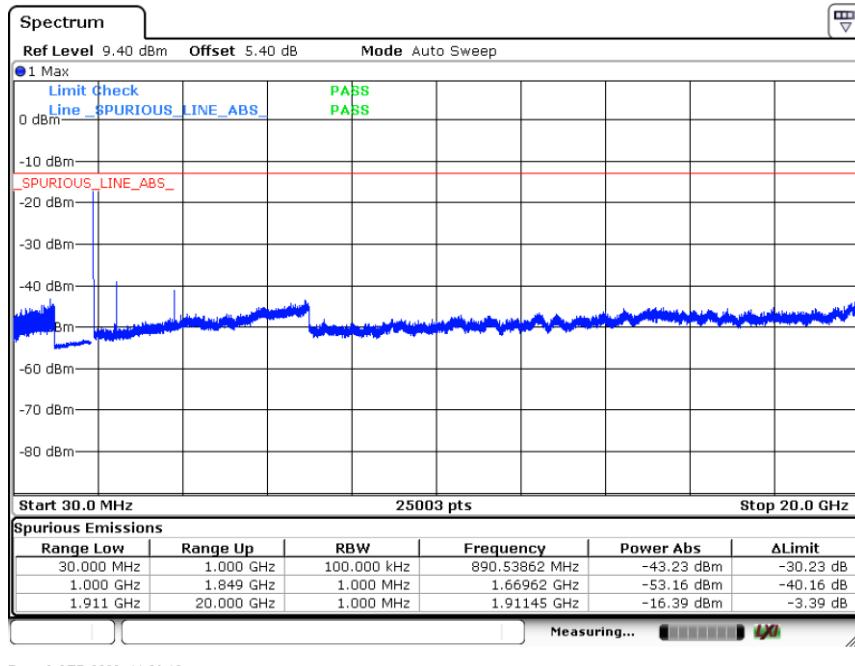
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6.1.2.1.3 Test Channel = HCH

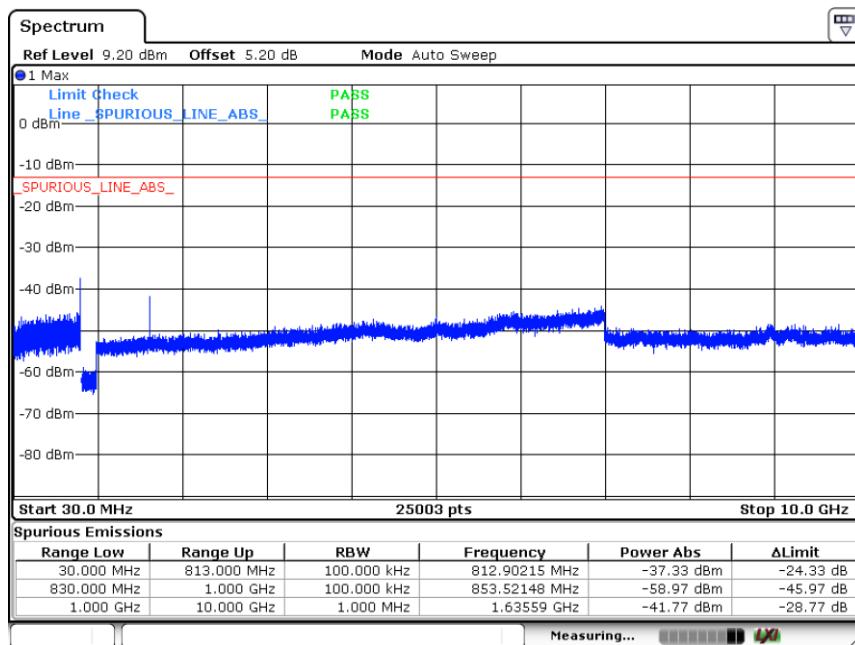


Date: 9.SEP.2020 11:08:12

6.1.3 Test Band = CDMA BC10

6.1.3.1 Test Mode = CDMA /TM1

6.1.3.1.1 Test Channel = LCH



Date: 9.SEP.2020 11:18:10

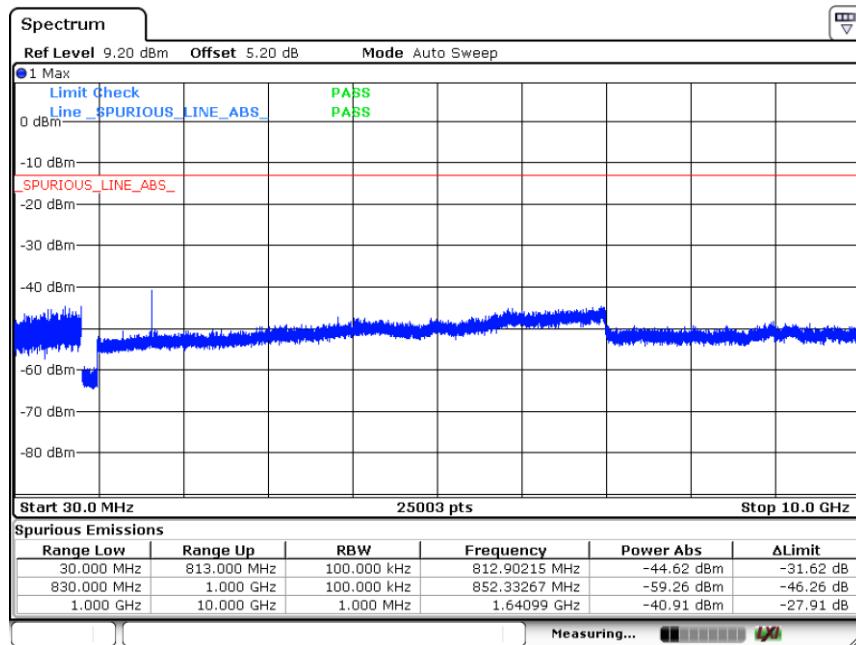
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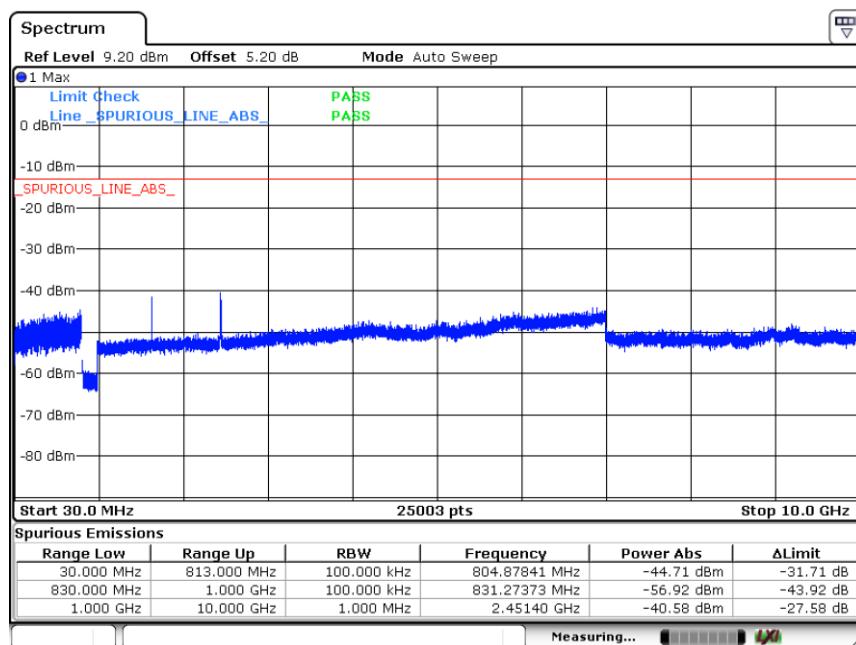
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6.1.3.1.2 Test Channel = MCH



Date: 9 SEP 2020 11:17:57

6.1.3.1.3 Test Channel = HCH



Date: 9 SEP 2020 11:17:23

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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)	Height [cm]	Angle [°]	Polarization
114.9762	-62.59	-13.00	49.59	254	23	Vertical
396.1448	-64.91	-13.00	51.91	159	170	Vertical
1673.3347	-45.21	-13.00	32.21	196	299	Vertical
2509.5019	-43.32	-13.00	30.32	184	151	Vertical
4184.4395	-59.42	-13.00	46.42	231	23	Vertical
9825.9275	-52.19	-13.00	39.19	261	23	Vertical
43.4837	-63.07	-13.00	50.07	254	58	Horizontal
235.3108	-64.76	-13.00	51.76	163	260	Horizontal
1673.3347	-41.52	-13.00	28.52	213	70	Horizontal
2509.5019	-40.36	-13.00	27.36	258	158	Horizontal
4184.6728	-57.37	-13.00	44.37	194	157	Horizontal
9540.7847	-52.82	-13.00	39.82	164	157	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.9505	-62.67	-13.00	49.67	258	216	Vertical
1696.1392	-41.40	-13.00	28.40	174	300	Vertical
2545.5091	-46.14	-13.00	33.14	196	188	Vertical
3392.0131	-59.76	-13.00	46.76	321	3	Vertical
4240.2080	-60.09	-13.00	47.09	262	316	Vertical
9830.8277	-52.27	-13.00	39.27	261	3	Vertical
41.9801	-62.39	-13.00	49.39	174	0	Horizontal
239.3365	-65.65	-13.00	52.65	185	64	Horizontal
1696.1392	-38.63	-13.00	25.63	196	31	Horizontal
2544.7089	-42.36	-13.00	29.36	231	21	Horizontal
3391.5464	-55.23	-13.00	42.23	262	228	Horizontal
9564.3521	-52.49	-13.00	39.49	261	64	Horizontal

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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.2116	-62.65	-13.00	49.65	258	77	Vertical
1648.9298	-47.36	-13.00	34.36	274	199	Vertical
2475.0950	-44.57	-13.00	31.57	185	150	Vertical
3000.0000	-56.38	-13.00	43.38	196	35	Vertical
4125.1708	-59.09	-13.00	46.09	312	8	Vertical
9837.5946	-52.56	-13.00	39.56	211	352	Vertical
41.7861	-62.69	-13.00	49.69	185	22	Horizontal
233.0312	-64.95	-13.00	51.95	174	154	Horizontal
1648.9298	-45.50	-13.00	32.50	196	23	Horizontal
2473.8948	-39.91	-13.00	26.91	231	155	Horizontal
4121.9041	-57.71	-13.00	44.71	262	58	Horizontal
9359.4786	-52.85	-13.00	39.85	264	22	Horizontal

7.1.2 Test Band = CDMA BC1
7.1.2.1 Test Mode = CDMA /TM1

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.1745	-65.24	-13.00	52.24	231	222	Vertical
2699.5399	-37.70	-13.00	24.70	184	162	Vertical
3702.0234	-50.44	-13.00	37.44	231	254	Vertical
5552.5851	-34.46	-13.00	21.46	261	222	Vertical
7406.1469	-46.01	-13.00	33.01	194	222	Vertical
17996.9999	-39.84	-13.00	26.84	187	173	Vertical
45.7148	-64.60	-13.00	51.60	258	253	Horizontal
2702.3405	-36.40	-13.00	23.40	274	220	Horizontal
3703.0234	-50.34	-13.00	37.34	185	224	Horizontal
5554.5852	-36.10	-13.00	23.10	196	12	Horizontal
7403.6468	-49.43	-13.00	36.43	231	119	Horizontal
16394.4465	-43.72	-13.00	30.72	262	199	Horizontal

7.1.2.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.5440	-65.02	-13.00	52.02	174	284	Vertical

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2695.5391	-37.76	-13.00	24.76	185	185	Vertical
3760.5254	-48.15	-13.00	35.15	196	258	Vertical
5640.5880	-33.99	-13.00	20.99	213	234	Vertical
7521.6507	-49.24	-13.00	36.24	218	14	Vertical
17992.9998	-39.93	-13.00	26.93	151	94	Vertical
44.5507	-63.99	-13.00	50.99	258	118	Horizontal
2698.7397	-36.51	-13.00	23.51	184	144	Horizontal
3760.5254	-47.67	-13.00	34.67	196	229	Horizontal
5639.0880	-36.14	-13.00	23.14	312	34	Horizontal
7520.1507	-50.58	-13.00	37.58	261	118	Horizontal
16385.9462	-43.56	-13.00	30.56	184	310	Horizontal

7.1.2.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.5140	-64.49	-13.00	51.49	174	158	Vertical
2699.5399	-37.64	-13.00	24.64	185	193	Vertical
3817.0272	-47.44	-13.00	34.44	196	248	Vertical
5725.5909	-33.13	-13.00	20.13	321	222	Vertical
7636.6546	-48.07	-13.00	35.07	262	0	Vertical
17993.4998	-40.00	-13.00	27.00	254	75	Vertical
46.4908	-64.74	-13.00	51.74	258	291	Horizontal
2699.5399	-36.59	-13.00	23.59	174	358	Horizontal
3817.0272	-47.70	-13.00	34.70	196	26	Horizontal
5727.0909	-33.93	-13.00	20.93	321	51	Horizontal
7633.6545	-52.95	-13.00	39.95	262	153	Horizontal
16387.4462	-43.37	-13.00	30.37	261	127	Horizontal

7.1.3 Test Band = CDMA BC10

7.1.3.1 Test Mode = CDMA/TM1

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
108.3799	-62.69	-13.00	49.69	258	166	Vertical
356.3243	-66.46	-13.00	53.46	274	230	Vertical
1635.7271	-53.42	-13.00	40.42	196	253	Vertical
2453.0906	-48.85	-13.00	35.85	231	12	Vertical
4089.2363	-57.58	-13.00	44.58	262	166	Vertical
9322.1441	-52.01	-13.00	39.01	215	293	Vertical
43.1442	-62.57	-13.00	49.57	174	46	Horizontal

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240.1125	-65.75	-13.00	52.75	185	116	Horizontal
1636.1272	-48.59	-13.00	35.59	196	58	Horizontal
2453.8908	-41.09	-13.00	28.09	231	334	Horizontal
3270.2090	-56.30	-13.00	43.30	261	148	Horizontal
9326.1109	-52.98	-13.00	39.98	154	217	Horizontal

7.1.3.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.4541	-62.64	-13.00	49.64	261	8	Vertical
606.8878	-61.13	-13.00	48.13	184	198	Vertical
1641.3283	-51.05	-13.00	38.05	178	258	Vertical
2473.4947	-46.76	-13.00	33.76	159	98	Vertical
4102.3034	-58.13	-13.00	45.13	261	261	Vertical
9886.1295	-52.05	-13.00	39.05	184	325	Vertical
44.1627	-62.89	-13.00	49.89	185	103	Horizontal
237.1539	-65.64	-13.00	52.64	196	8	Horizontal
1640.9282	-48.26	-13.00	35.26	174	4	Horizontal
2461.4923	-38.49	-13.00	25.49	231	332	Horizontal
4102.3034	-55.36	-13.00	42.36	252	230	Horizontal
9307.6769	-52.03	-13.00	39.03	261	166	Horizontal

7.1.3.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
116.8193	-62.92	-13.00	49.92	174	131	Vertical
617.1219	-60.58	-13.00	47.58	185	4	Vertical
1646.1292	-48.92	-13.00	35.92	196	228	Vertical
2469.4939	-46.70	-13.00	33.70	231	263	Vertical
4115.3705	-59.13	-13.00	46.13	233	99	Vertical
9892.4297	-52.03	-13.00	39.03	261	131	Vertical
43.7747	-63.16	-13.00	50.16	231	9	Horizontal
236.0868	-65.68	-13.00	52.68	261	9	Horizontal
1647.3295	-53.02	-13.00	40.02	298	4	Horizontal
2469.4939	-38.25	-13.00	25.25	213	337	Horizontal
4115.6039	-57.51	-13.00	44.51	215	167	Horizontal
9322.3774	-52.33	-13.00	39.33	196	72	Horizontal

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- 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	-1.45	-0.00176	PASS
				VN	-0.35	-0.00042	PASS
				VH	-1.94	-0.00235	PASS
		MCH	TN	VL	1.83	0.00219	PASS
				VN	0.78	0.00093	PASS
				VH	-1.67	-0.00200	PASS
		HCH	TN	VL	1.02	0.00120	PASS
				VN	-2.61	-0.00308	PASS
				VH	-2.96	-0.00349	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	-4.30	-0.00232	PASS
				VN	-1.44	-0.00078	PASS
				VH	2.02	0.00109	PASS
		MCH	TN	VL	-3.84	-0.00204	PASS
				VN	2.34	0.00124	PASS
				VH	-1.75	-0.00093	PASS
		HCH	TN	VL	0.65	0.00034	PASS
				VN	-1.42	-0.00074	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	-4.21	-0.00515	PASS
				VN	-1.38	-0.00169	PASS
				VH	2.32	0.00284	PASS
		MCH	TN	VL	-3.44	-0.00419	PASS
				VN	1.30	0.00158	PASS
				VH	-2.45	-0.00299	PASS
		HCH	TN	VL	1.66	0.00202	PASS
				VN	-4.50	-0.00547	PASS
				VH	2.43	0.00295	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	-4.06	-0.004923	PASS
				-20	2.60	0.003153	PASS
				-10	1.25	0.001516	PASS
				0	-2.64	-0.003201	PASS
				10	3.56	0.004317	PASS
				20	-4.80	-0.005820	PASS
				30	1.60	0.001940	PASS
				40	-2.22	-0.002692	PASS
				50	-6.65	-0.008064	PASS
		MCH	VN	-30	-3.20	-0.003825	PASS
				-20	-5.53	-0.006611	PASS
				-10	-1.39	-0.001662	PASS
				0	-2.38	-0.002845	PASS
				10	1.31	0.001566	PASS
				20	2.39	0.002857	PASS
				30	1.61	0.001925	PASS
				40	3.13	0.003742	PASS
				50	-4.08	-0.004877	PASS
		HCH	VN	-30	-2.17	-0.002558	PASS
				-20	3.44	0.004055	PASS
				-10	2.55	0.003006	PASS
				0	-5.07	-0.005977	PASS
				10	1.37	0.001615	PASS
				20	-2.78	-0.003277	PASS
				30	3.22	0.003796	PASS
				40	-4.63	-0.005458	PASS
				50	-2.55	-0.003006	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC1	CDMA/TM1	LCH	VN	-30	-2.36	-0.001275	PASS
				-20	1.90	0.001026	PASS
				-10	-2.97	-0.001604	PASS
				0	0.59	0.000319	PASS
				10	-4.65	-0.002512	PASS
				20	-4.22	-0.002280	PASS
				30	-2.96	-0.001599	PASS
				40	-5.66	-0.003057	PASS
				50	-2.03	-0.001097	PASS
				-30	-1.94	-0.001032	PASS
		MCH	VN	-20	3.55	0.001888	PASS
				-10	-4.34	-0.002309	PASS
				0	1.75	0.000931	PASS
				10	-5.10	-0.002713	PASS
				20	-3.43	-0.001824	PASS
				30	-2.13	-0.001133	PASS
				40	-1.43	-0.000761	PASS
				50	-3.22	-0.001713	PASS
				-30	-3.25	-0.001703	PASS
				-20	-2.24	-0.001174	PASS
		HCH	VN	-10	-2.00	-0.001048	PASS
				0	-5.34	-0.002798	PASS
				10	1.62	0.000849	PASS
				20	-4.55	-0.002384	PASS
				30	-3.22	-0.001687	PASS
				40	-1.84	-0.000964	PASS
				50	-3.97	-0.002080	PASS
				-30	-3.25	-0.001703	PASS
				-20	-2.24	-0.001174	PASS
				-10	-2.00	-0.001048	PASS

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CDMA BC10	CDMA/TM1	LCH	VN	-30	-3.22	-0.003937	PASS
				-20	-4.55	-0.005563	PASS
				-10	1.94	0.002372	PASS
				0	-3.47	-0.004243	PASS
				10	-2.58	-0.003154	PASS
				20	1.08	0.001320	PASS
				30	-3.44	-0.004206	PASS
				40	-5.30	-0.006480	PASS
				50	-1.43	-0.001748	PASS
		MCH	VN	-30	-2.92	-0.003559	PASS
				-20	1.27	0.001548	PASS
				-10	-5.43	-0.006618	PASS
				0	4.84	0.005899	PASS
				10	-3.23	-0.003937	PASS
				20	-6.44	-0.007849	PASS
				30	-2.27	-0.002767	PASS
				40	-6.32	-0.007703	PASS
				50	-4.54	-0.005533	PASS
		HCH	VN	-30	-2.35	-0.002855	PASS
				-20	3.63	0.004410	PASS
				-10	-1.85	-0.002248	PASS
				0	-5.21	-0.006330	PASS
				10	-2.65	-0.003220	PASS
				20	-4.16	-0.005054	PASS
				30	1.22	0.001482	PASS
				40	-2.92	-0.003548	PASS
				50	-4.55	-0.005528	PASS

The End

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