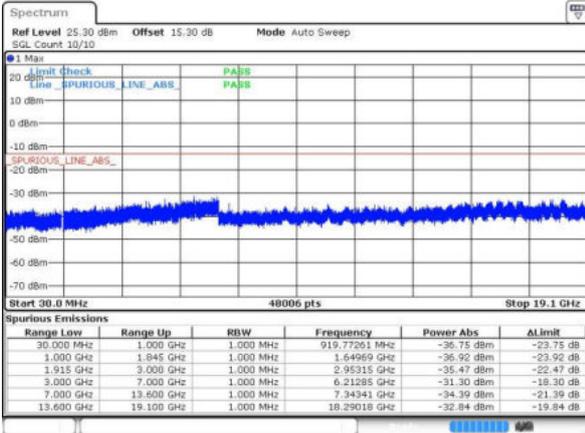




GSM1900 (GSM)

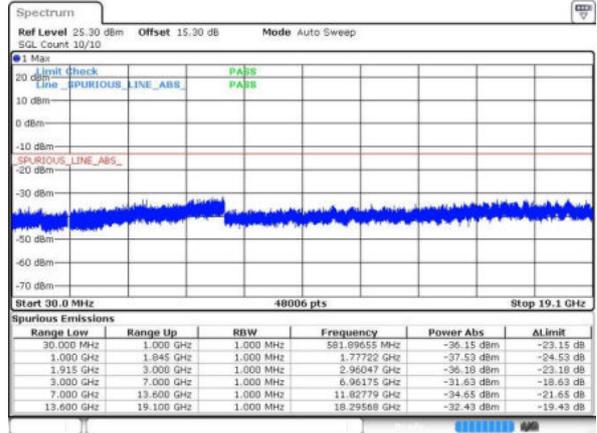
Lowest Channel



Date: 8 MAY 2017 22:34:30

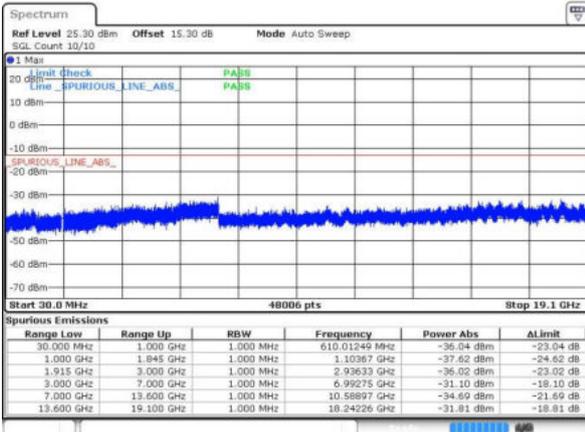
GSM1900 (EDGE class 8)

Lowest Channel



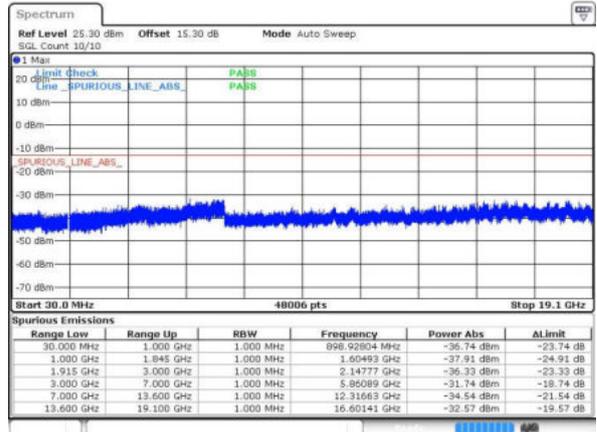
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Middle Channel



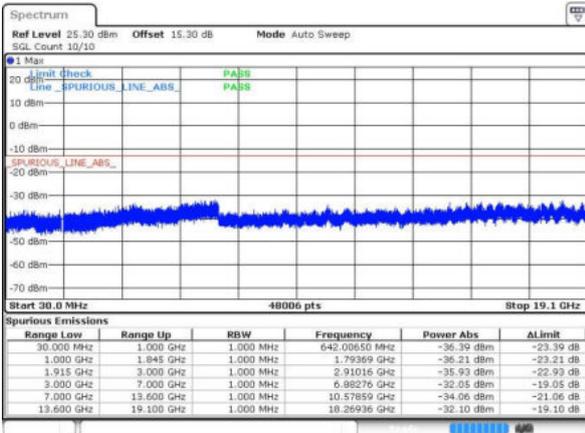
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Middle Channel



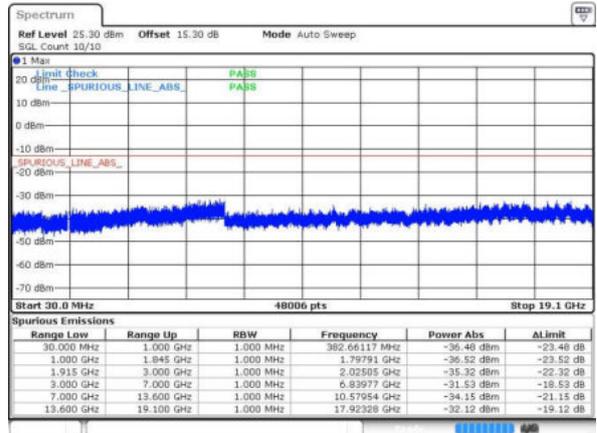
Date: 8 MAY 2017 22:57:02

Highest Channel



Date: 8 MAY 2017 22:37:12

Highest Channel

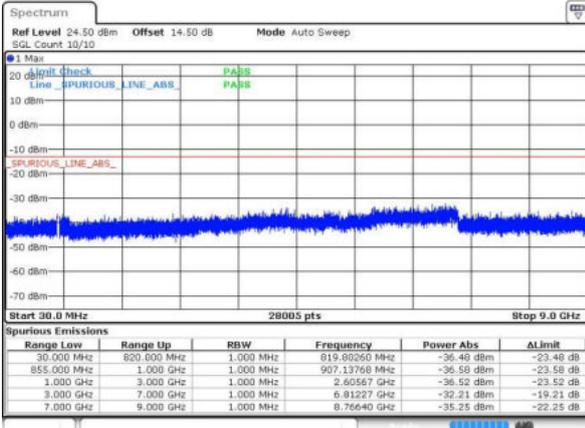


Date: 8 MAY 2017 22:58:36



CDMA BC0 (1xRTT)

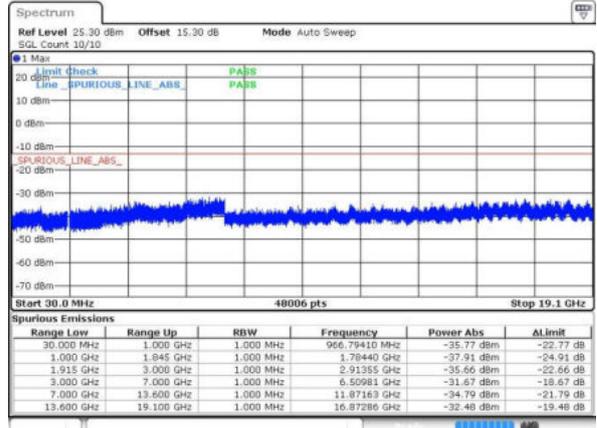
Lowest Channel



Date: 9 MAY 2017 22:20:35

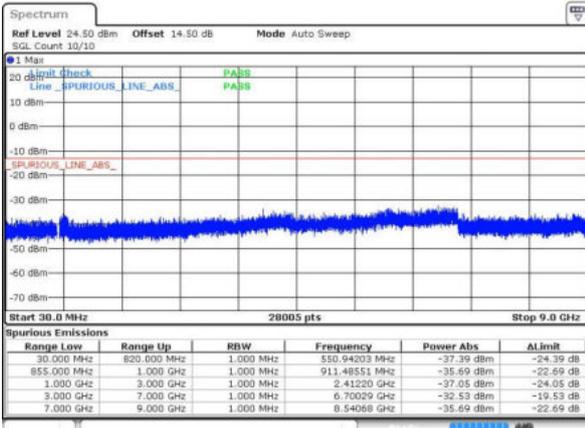
CDMA BC1 (1xRTT)

Lowest Channel



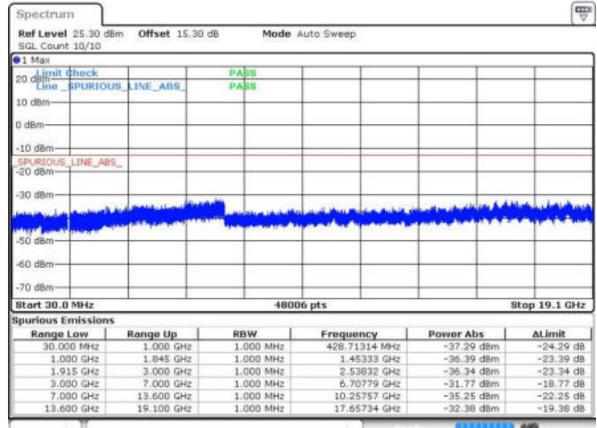
Date: 9 MAY 2017 23:02:32

Middle Channel



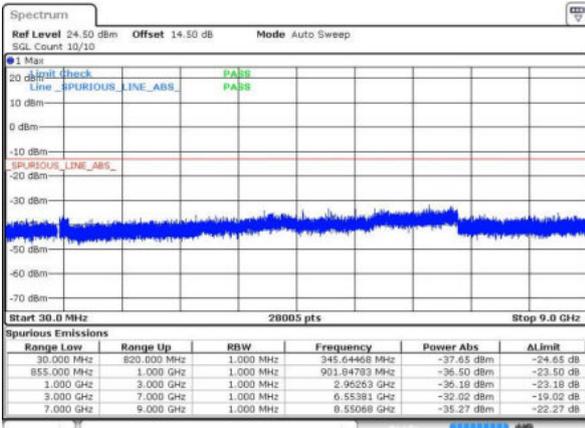
Date: 9 MAY 2017 22:21:54

Middle Channel



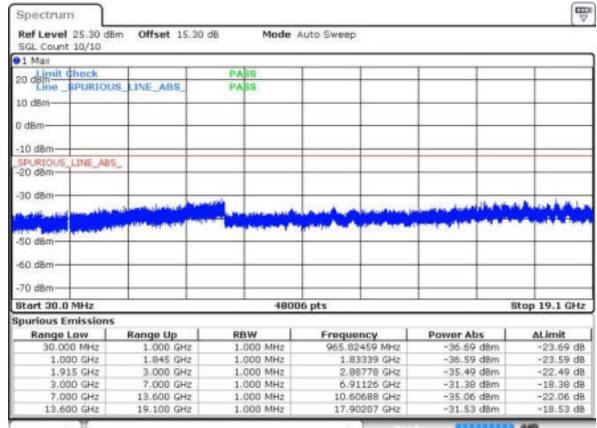
Date: 9 MAY 2017 23:03:53

Highest Channel



Date: 9 MAY 2017 22:23:13

Highest Channel

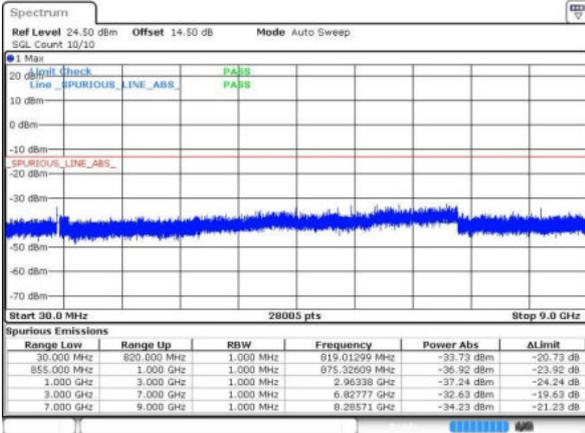


Date: 9 MAY 2017 23:05:12



WCDMA Band V (RMC 12.2Kbps)

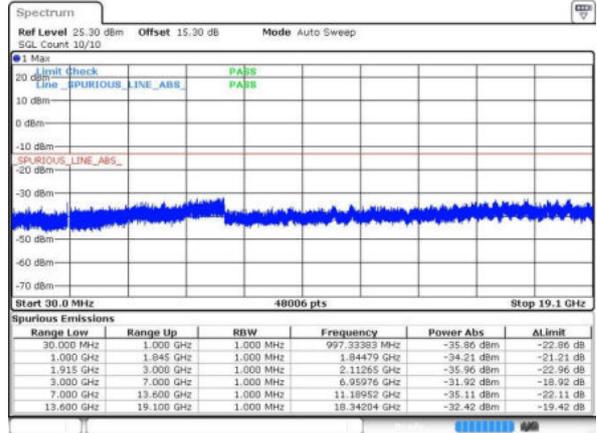
Lowest Channel



Date: 8 MAY 2017 23:55:36

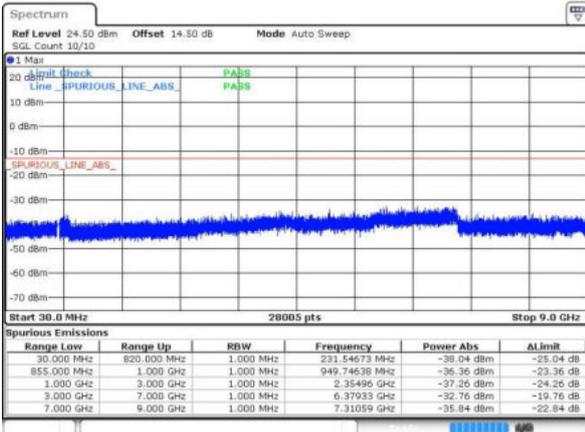
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



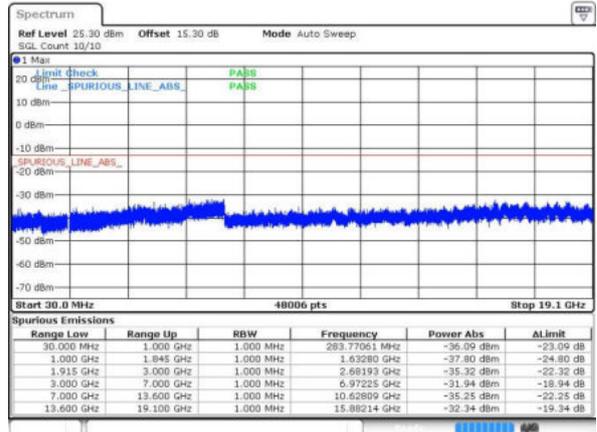
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Middle Channel



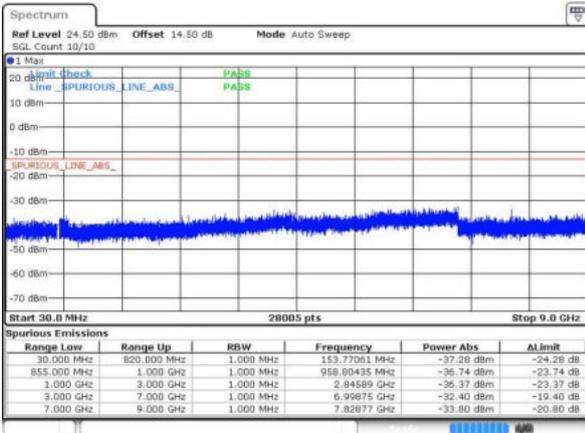
Date: 8 MAY 2017 23:56:55

Middle Channel



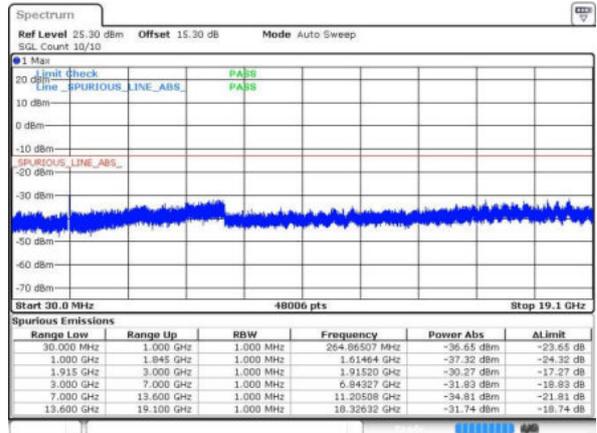
Date: 8 MAY 2017 23:16:35

Highest Channel



Date: 8 MAY 2017 23:58:15

Highest Channel

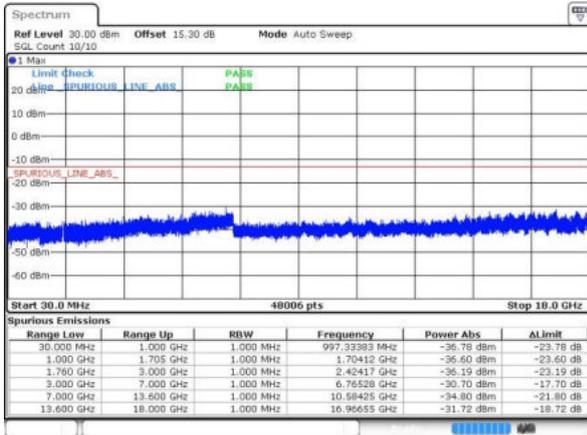


Date: 8 MAY 2017 23:17:54



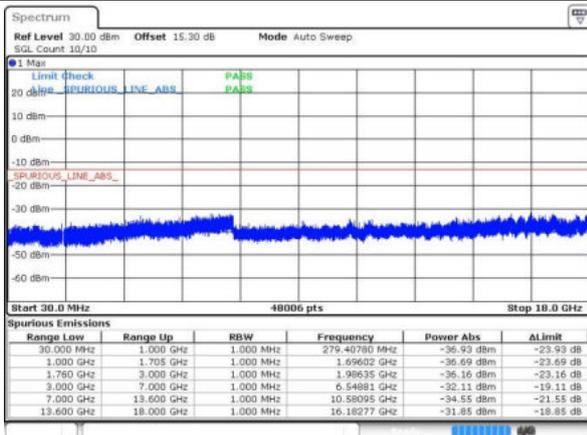
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



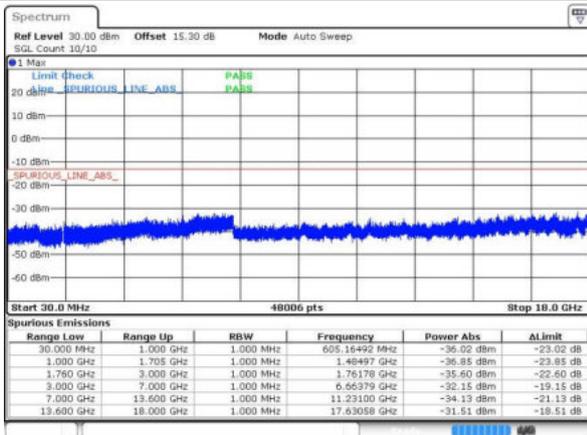
Date: 8 MAY 2017 23:37:06

Middle Channel



Date: 8 MAY 2017 23:38:26

Highest Channel



Date: 8 MAY 2017 23:39:45



**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0048	0.0072	PASS
40	Normal Voltage	0.0060	0.0024	
30	Normal Voltage	0.0024	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0036	0.0024	
0	Normal Voltage	0.0072	0.0096	
-10	Normal Voltage	0.0108	0.0024	
-20	Normal Voltage	0.0132	0.0060	
-30	Normal Voltage	0.0120	0.0048	
20	Maximum Voltage	0.0143	0.0072	
20	Normal Voltage	0.0084	0.0048	
20	Battery End Point	0.0179	0.0012	

Note: Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage =4.45 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0106	0.0016	PASS
40	Normal Voltage	0.0112	0.0122	
30	Normal Voltage	0.0122	0.0005	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0043	0.0021	
0	Normal Voltage	0.0037	0.0021	
-10	Normal Voltage	0.0016	0.0027	
-20	Normal Voltage	0.0032	0.0011	
-30	Normal Voltage	0.0021	0.0101	
20	Maximum Voltage	0.0011	0.0037	
20	Normal Voltage	0.0133	0.0005	
20	Battery End Point	0.0096	0.0154	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0275	PASS
40	Normal Voltage	0.0251	
30	Normal Voltage	0.0347	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0359	
0	Normal Voltage	0.0239	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0263	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0287	
20	Battery End Point	0.0347	

Note: Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage =4.45 V

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0149	PASS
40	Normal Voltage	0.0144	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0176	
-10	Normal Voltage	0.0122	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0106	
20	Maximum Voltage	0.0128	
20	Normal Voltage	0.0117	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0132	
30	Normal Voltage	0.0108	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0311	
-20	Normal Voltage	0.0323	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0383	
20	Normal Voltage	0.0299	
20	Battery End Point	0.0335	

Note: Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage =4.45 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0069	
-20	Normal Voltage	0.0059	
-30	Normal Voltage	0.0085	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0059	
20	Battery End Point	0.0048	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0087	PASS
40	Normal Voltage	0.0069	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0098	
-20	Normal Voltage	0.0121	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0110	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0092	

**Note:**

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

GSM850 (GSM)									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-55.10	-13	-42.10	-58.93	-57.74	1.01	5.80	H
	2508	-35.94	-13	-22.94	-51.62	-39.51	1.18	6.90	H
	3345	-61.31	-13	-48.31	-70.75	-64.88	1.78	7.50	H
	4182	-65.67	-13	-52.67	-73.59	-69.18	1.64	7.30	H
	5018.4	-64.32	-13	-51.32	-75.22	-69.41	1.76	9.00	H
	5854.8	-55.76	-13	-42.76	-75.70	-62.73	1.87	11.00	H
	6691.2	-55.35	-13	-42.35	-76.41	-63.06	2.04	11.90	H
	7527	-52.11	-13	-39.11	-72.51	-59.51	2.41	11.96	H
	8364	-53.16	-13	-40.16	-71.18	-61.97	2.77	13.73	H
	1672	-60.28	-13	-47.28	-60.93	-62.92	1.01	5.80	V
	2508	-41.42	-13	-28.42	-54.87	-44.99	1.18	6.90	V
	3345	-62.79	-13	-49.79	-71.11	-66.36	1.78	7.50	V
	4182	-67.69	-13	-54.69	-75.9	-71.19	1.64	7.30	V
	5018.4	-64.65	-13	-51.65	-75.59	-69.74	1.76	9.00	V
	5854.8	-62.13	-13	-49.13	-75.56	-69.10	1.87	11.00	V
	6691.2	-57.68	-13	-44.68	-76	-65.38	2.04	11.90	V
	7527	-54.39	-13	-41.39	-70.18	-61.79	2.41	11.96	V
	8364	-48.53	-13	-35.53	-66.3	-57.33	2.77	13.73	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM850 (EDGE class 8)									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-68.09	-13	-55.09	-66.60	-70.73	1.01	5.80	H
	2508	-55.28	-13	-42.28	-63.86	-58.85	1.18	6.90	H
	3345	-66.40	-13	-53.40	-75.84	-69.97	1.78	7.50	H
	4182	-69.19	-13	-56.19	-77.11	-72.70	1.64	7.30	H
	5018.4	-65.23	-13	-52.23	-76.13	-70.32	1.76	9.00	H
	5854.8	-57.06	-13	-44.06	-77.00	-64.03	1.87	11.00	H
	6690	-56.34	-13	-43.34	-77.40	-64.05	2.04	11.90	H
	7527.6	-56.45	-13	-43.45	-76.85	-63.85	2.41	11.96	H
	8364	-59.71	-13	-46.71	-77.73	-68.52	2.77	13.73	H
	1672.8	-71.79	-13	-58.79	-70.91	-74.43	1.01	5.80	V
	2508	-58.12	-13	-45.12	-67.26	-61.69	1.18	6.90	V
	3345.6	-68.87	-13	-55.87	-77.19	-72.44	1.78	7.50	V
	4182	-68.91	-13	-55.91	-77.12	-72.41	1.64	7.30	V
	5018.4	-65.88	-13	-52.88	-76.82	-70.97	1.76	9.00	V
	5856	-63.94	-13	-50.94	-77.37	-70.91	1.87	11.00	V
	6691.2	-58.67	-13	-45.67	-76.99	-66.37	2.04	11.90	V
	7527.6	-60.48	-13	-47.48	-76.27	-67.88	2.41	11.96	V
	8364	-54.31	-13	-41.31	-72.08	-63.11	2.77	13.73	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM1900 (GSM)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-61.36	-13	-48.36	-69.75	-66.84	1.62	7.10	H
	5640	-29.17	-13	-16.17	-50.22	-37.71	1.86	10.40	H
	7519	-53.94	-13	-40.94	-72.25	-63.49	2.40	11.94	H
	9399	-44.42	-13	-31.42	-62.21	-55.21	2.43	13.22	H
	11280	-56.38	-13	-43.38	-77.38	-65.92	2.56	12.10	H
	13160	-45.74	-13	-32.74	-73.66	-56.62	2.40	13.28	H
	3759	-60.19	-13	-47.19	-69.78	-65.67	1.62	7.10	V
	5640	-45.58	-13	-32.58	-60.71	-54.12	1.86	10.40	V
	7521	-56.46	-13	-43.46	-72.58	-66.01	2.40	11.94	V
	9399	-35.30	-13	-22.30	-57.84	-46.09	2.43	13.22	V
	11280	-52.24	-13	-39.24	-75.12	-61.78	2.56	12.10	V
	13160	-46.12	-13	-33.12	-74.93	-57.00	2.40	13.28	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE class 8)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-66.28	-13	-53.28	-74.67	-71.76	1.62	7.10	H
	5640	-49.70	-13	-36.70	-62.89	-58.24	1.86	10.40	H
	7520	-58.37	-13	-45.37	-76.68	-67.92	2.40	11.94	H
	9399	-51.13	-13	-38.13	-68.92	-61.92	2.43	13.22	H
	11280	-57.09	-13	-44.09	-78.09	-66.63	2.56	12.10	H
	3760	-64.75	-13	-51.75	-74.34	-70.23	1.62	7.10	V
	5640	-54.27	-13	-41.27	-66.35	-62.81	1.86	10.40	V
	7520	-60.92	-13	-47.92	-77.04	-70.47	2.40	11.94	V
	9399	-40.81	-13	-27.81	-61.07	-51.60	2.43	13.22	V
	11280	-51.71	-13	-38.71	-74.59	-61.25	2.56	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



CDMA BC0(1xRTT)									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-65.10	-13	-52.10	-63.61	-67.74	1.01	5.80	H
	2510	-61.12	-13	-48.12	-69.70	-64.69	1.18	6.90	H
	3345	-65.34	-13	-52.34	-74.78	-68.91	1.78	7.50	H
	1672	-68.58	-13	-55.58	-67.7	-71.22	1.01	5.80	V
	2510	-62.39	-13	-49.39	-71.53	-65.96	1.18	6.90	V
	3345	-66.79	-13	-53.79	-75.11	-70.36	1.78	7.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

CDMA BC1(1xRTT)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-54.03	-13	-41.03	-62.42	-59.51	1.62	7.10	H
	5640	-29.42	-13	-16.42	-50.46	-37.97	1.86	10.40	H
	7521	-46.96	-13	-33.96	-65.27	-56.51	2.40	11.94	H
	3759	-63.75	-13	-50.75	-73.34	-69.23	1.62	7.10	V
	5640	-43.31	-13	-30.31	-59.72	-51.85	1.86	10.40	V
	7521	-53.65	-13	-40.65	-69.77	-63.20	2.40	11.94	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band V (RMC 12.2Kbps)									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-72.51	-13	-59.51	-71.02	-75.15	1.01	5.80	H
	2510	-65.32	-13	-52.32	-73.90	-68.89	1.18	6.90	H
	3345	-67.08	-13	-54.08	-76.52	-70.65	1.78	7.50	H
	1672	-72.63	-13	-59.63	-71.75	-75.27	1.01	5.80	V
	2509.2	-64.07	-13	-51.07	-73.21	-67.64	1.18	6.90	V
	3345	-67.55	-13	-54.55	-75.87	-71.12	1.78	7.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II (RMC 12.2Kbps)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-62.01	-13	-49.01	-70.40	-67.49	1.62	7.10	H
	5640	-47.35	-13	-34.35	-61.63	-55.90	1.86	10.40	H
	7520	-54.10	-13	-41.10	-72.41	-63.65	2.40	11.94	H
	3759	-63.05	-13	-50.05	-72.64	-68.53	1.62	7.10	V
	5640	-55.04	-13	-42.04	-67.12	-63.58	1.86	10.40	V
	7520	-57.59	-13	-44.59	-73.71	-67.14	2.40	11.94	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band IV (RMC 12.2Kbps)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-61.00	-13	-48.00	-73.43	-67.16	1.43	7.59	H
	5197.8	-52.96	-13	-39.96	-67.80	-60.52	1.83	9.39	H
	6930	-54.97	-13	-41.97	-72.70	-64.56	2.08	11.67	H
	8664	-55.08	-13	-42.08	-75.78	-66.29	2.43	13.63	H
	3465.2	-65.47	-13	-52.47	-75.25	-71.63	1.43	7.59	V
	5196	-58.17	-13	-45.17	-73.44	-65.73	1.83	9.39	V
	6930.4	-56.03	-13	-43.03	-72.91	-65.62	2.08	11.67	V
	8664	-53.01	-13	-40.01	-73.53	-64.22	2.43	13.63	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.