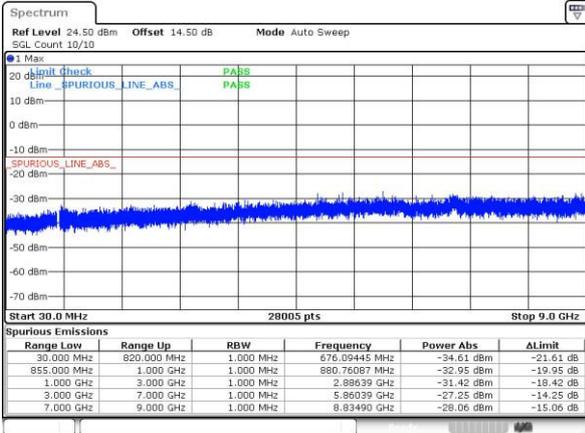




WCDMA Band V (RMC 12.2Kbps)

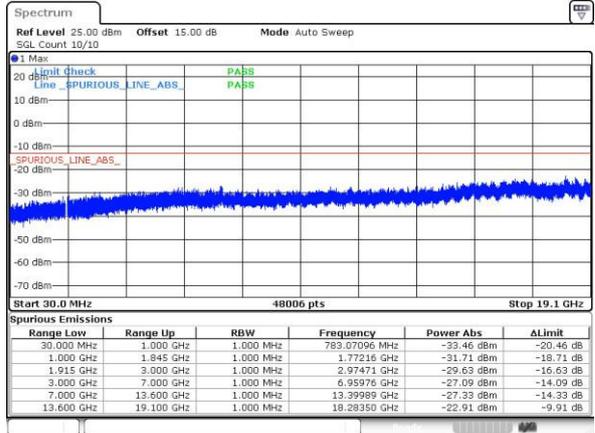
Lowest Channel



Date: 19_JUL_2016 14:13:51

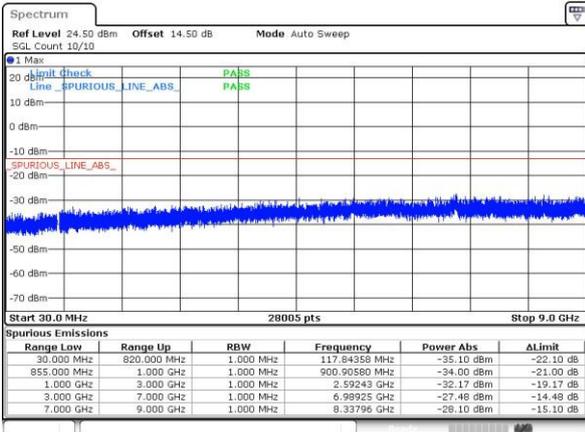
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



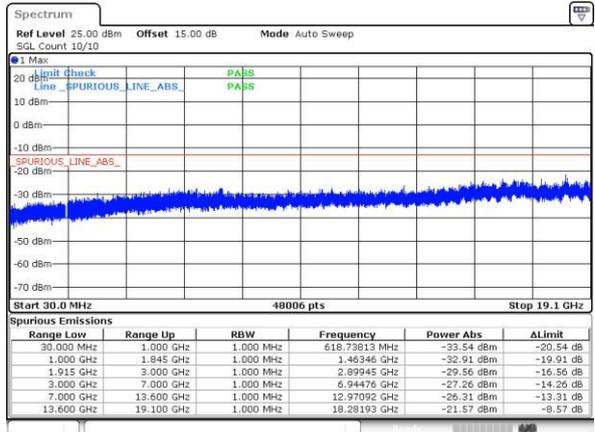
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Middle Channel



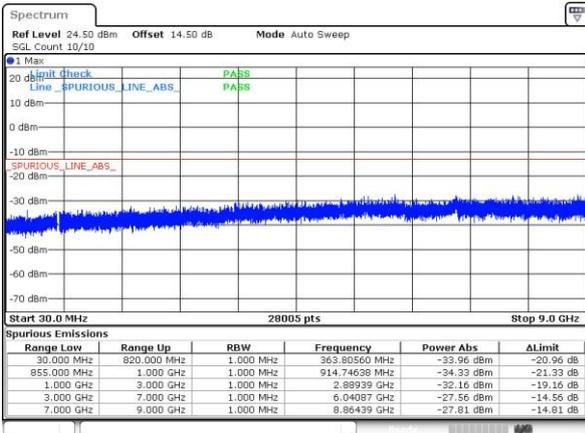
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Middle Channel



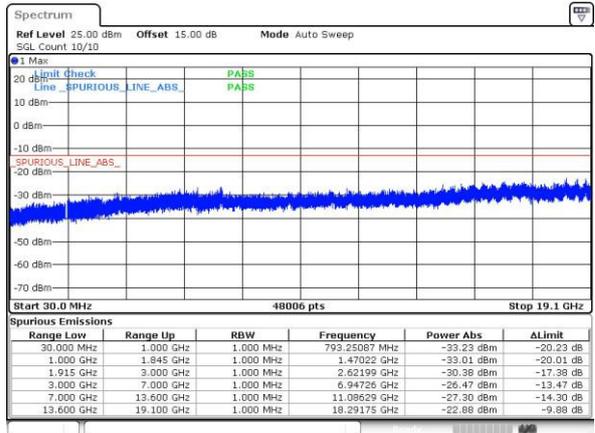
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Highest Channel



Date: 19_JUL_2016 14:16:25

Highest Channel

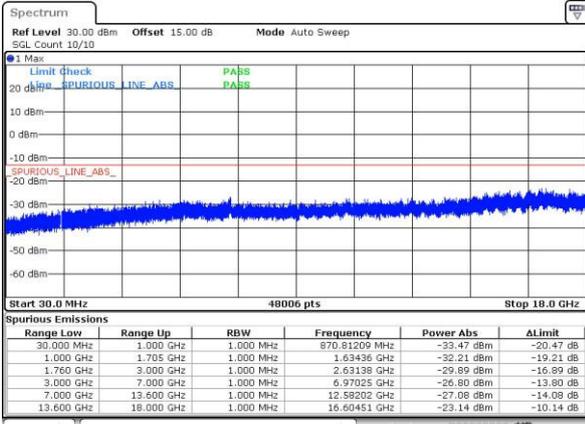


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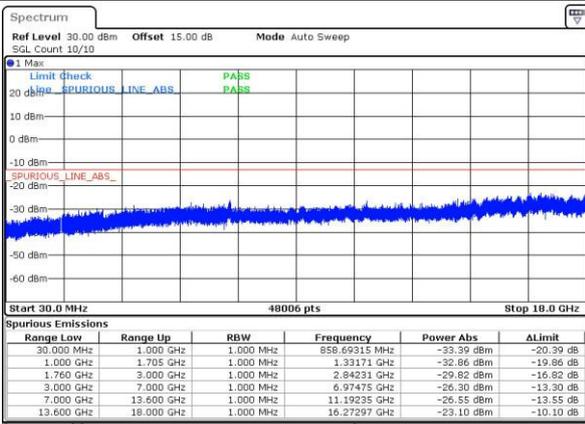
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



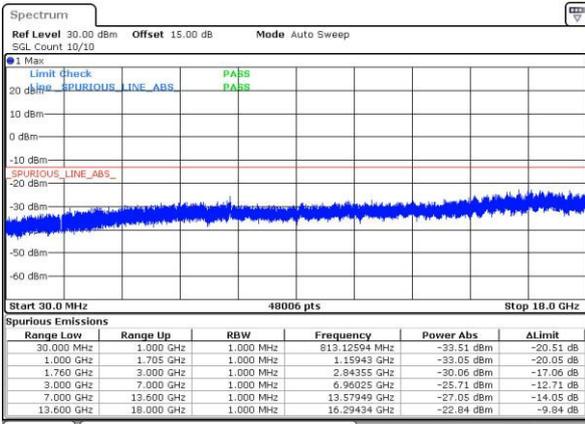
Date: 19_JUL_2016 11:53:59

Middle Channel



Date: 19_JUL_2016 11:55:16

Highest Channel



Date: 19_JUL_2016 11:56:33



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	0.0143	0.0084	PASS
40	Normal Voltage	0.0084	0.0060	
30	Normal Voltage	0.0036	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0060	0.0048	
0	Normal Voltage	0.0072	0.0072	
-10	Normal Voltage	0.0036	0.0024	
-20	Normal Voltage	0.0012	0.0000	
-30	Normal Voltage	0.0012	0.0024	
20	Maximum Voltage	0.0060	0.0048	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0084	0.0024	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0080	0.0037	PASS
40	Normal Voltage	0.0048	0.0032	
30	Normal Voltage	0.0016	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0021	0.0005	
0	Normal Voltage	0.0037	0.0005	
-10	Normal Voltage	0.0016	0.0016	
-20	Normal Voltage	0.0011	0.0027	
-30	Normal Voltage	0.0005	0.0032	
20	Maximum Voltage	0.0011	0.0021	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0021	0.0032	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0120	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0084	
-10	Normal Voltage	0.0132	
-20	Normal Voltage	0.0155	
-30	Normal Voltage	0.0191	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0048	

Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0084	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0120	
-20	Normal Voltage	0.0155	
-30	Normal Voltage	0.0179	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 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	0.0069	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0064	
-30	Normal Voltage	0.0085	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 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

ERP/EIRP

Channel	Mode	Horizontal		Vertical	
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	GSM850 GSM	28.28	0.6736	17.30	0.0538
Middle		28.64	0.7317	18.93	0.0781
Highest		29.21	0.8340	20.19	0.1044
Lowest	GSM850 EDGE class 8	21.98	0.1578	11.14	0.0130
Middle		22.15	0.1641	12.44	0.0176
Highest		22.74	0.1881	13.82	0.0241
Lowest	WCDMA Band V RMC 12.2Kbps	20.29	0.1070	9.45	0.0088
Middle		20.24	0.1056	10.34	0.0108
Highest		20.27	0.1064	10.96	0.0125
Limit	ERP < 7W	Result		PASS	



Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GSM	27.83	0.6061	28.23	0.6652
Middle		28.50	0.7074	28.33	0.6803
Highest		29.17	0.8261	28.58	0.7218
Lowest	GSM1900 EDGE class 8	22.90	0.1951	23.29	0.2133
Middle		23.81	0.2405	24.34	0.2716
Highest		24.67	0.2931	25.07	0.3217
Lowest	WCDMA Band II RMC 12.2Kbps	21.45	0.1397	22.03	0.1595
Middle		21.88	0.1542	22.44	0.1754
Highest		22.38	0.1730	22.77	0.1892
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	23.82	0.2409	24.09	0.2566
Middle		24.55	0.2849	24.30	0.2694
Highest		24.05	0.2544	23.84	0.2424
Limit	EIRP < 1W	Result		PASS	



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	-55.84	-13	-42.84	-63.41	-62.52	0.57	9.40	H
	2510	-54.10	-13	-41.10	-66.38	-61.81	0.74	10.60	H
	3346	-55.19	-13	-42.19	-70.79	-64.79	0.85	12.60	H
	1672	-51.15	-13	-38.15	-59.41	-57.83	0.57	9.40	V
	2510	-49.16	-13	-36.16	-62.37	-56.87	0.74	10.60	V
	3346	-55.76	-13	-42.76	-70.37	-65.36	0.85	12.60	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	-56.78	-13	-43.78	-64.35	-63.46	0.57	9.40	H
	2510	-56.96	-13	-43.96	-69.24	-64.67	0.74	10.60	H
	3346	-55.25	-13	-42.25	-70.85	-64.85	0.85	12.60	H
	1672	-58.18	-13	-45.18	-65.01	-64.86	0.57	9.40	V
	2510	-57.17	-13	-44.17	-68.67	-64.88	0.74	10.60	V
	3346	-55.92	-13	-42.92	-70.53	-65.52	0.85	12.60	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	3760	-46.23	-13	-33.23	-66.56	-57.96	0.87	12.60	H
	5640	-49.50	-13	-36.50	-72.37	-61.53	1.07	13.10	H
	7520	-50.51	-13	-37.51	-75.64	-60.12	1.69	11.30	H
	3760	-49.41	-13	-36.41	-70.97	-61.14	0.87	12.6	V
	5640	-50.34	-13	-37.34	-73.09	-62.37	1.07	13.1	V
	7520	-50.76	-13	-37.76	-75.67	-60.19	1.87	11.3	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	3760	-50.30	-13	-37.30	-70.63	-62.03	0.87	12.60	H
	5640	-50.31	-13	-37.31	-73.18	-62.34	1.07	13.10	H
	7520	-50.57	-13	-37.57	-75.70	-60.18	1.69	11.30	H
	3760	-51.79	-13	-38.79	-73.35	-63.52	0.87	12.6	V
	5640	-50.23	-13	-37.23	-72.98	-62.26	1.07	13.1	V
	7520	-50.86	-13	-37.86	-75.77	-60.29	1.87	11.3	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	-58.34	-13	-45.34	-65.91	-65.02	0.57	9.40	H
	2510	-56.48	-13	-43.48	-68.76	-64.19	0.74	10.60	H
	3346	-53.67	-13	-40.67	-69.27	-63.27	0.85	12.60	H
	1672	-54.36	-13	-41.36	-61.44	-61.04	0.57	9.40	V
	2510	-57.29	-13	-44.29	-68.79	-65.00	0.74	10.60	V
	3346	-55.85	-13	-42.85	-70.46	-65.45	0.85	12.60	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	-46.37	-13	-33.37	-66.70	-58.10	0.87	12.60	H
	5640	-50.58	-13	-37.58	-73.45	-62.61	1.07	13.10	H
	7520	-49.46	-13	-36.46	-74.59	-59.07	1.69	11.30	H
	3760	-50.82	-13	-37.82	-72.38	-62.55	0.87	12.6	V
	5640	-50.78	-13	-37.78	-73.53	-62.81	1.07	13.1	V
	7520	-50.67	-13	-37.67	-75.58	-60.10	1.87	11.3	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	3465.2	-43.42	-13	-30.42	-58.17	-48.69	7.33	12.60	H
	5197.8	-47.75	-13	-34.75	-65.75	-51.30	9.15	12.70	H
	6930.4	-47.27	-13	-34.27	-66.08	-48.33	10.64	11.70	H
	3465.2	-44.32	-13	-31.32	-56.99	-49.59	7.33	12.60	V
	5197.8	-52.09	-13	-39.09	-65.84	-55.64	9.15	12.70	V
	6930.4	-47.54	-13	-34.54	-65.63	-48.60	10.64	11.70	V

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