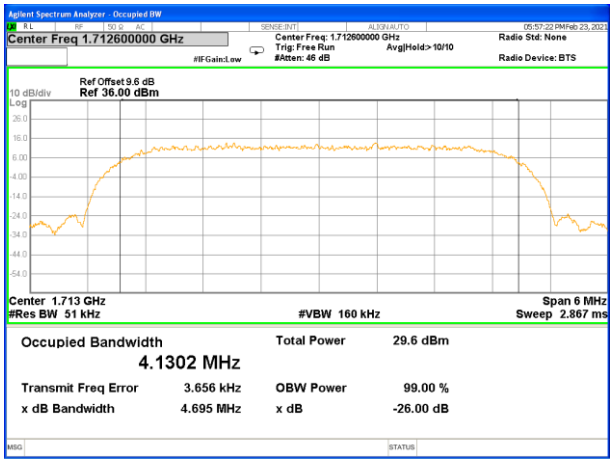
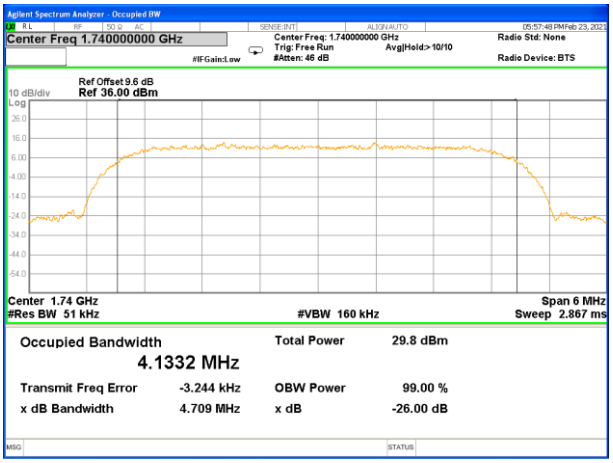
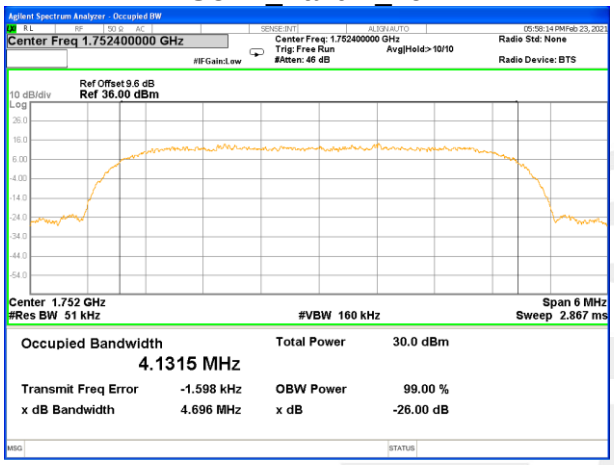


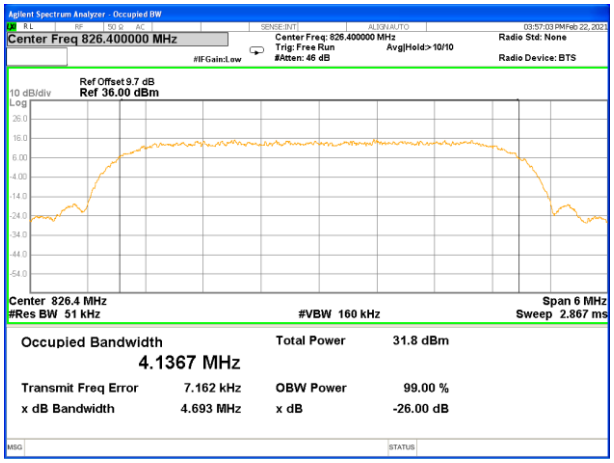
HSUPA_Band 4_Low



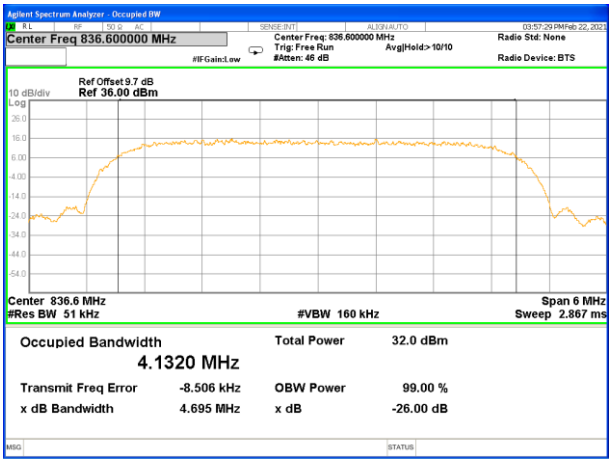
HSUPA_Band 4_Middle



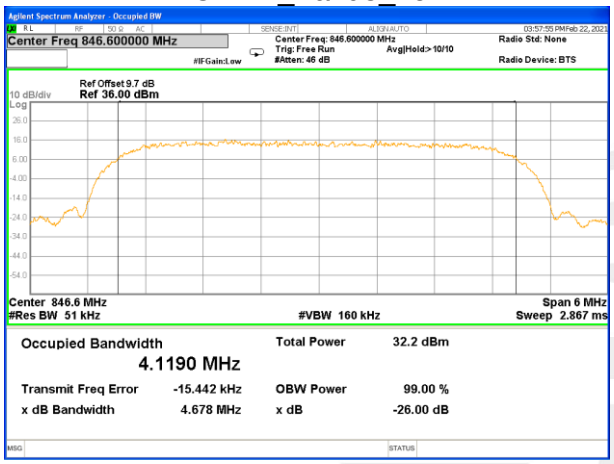
HSUPA_Band 4_High



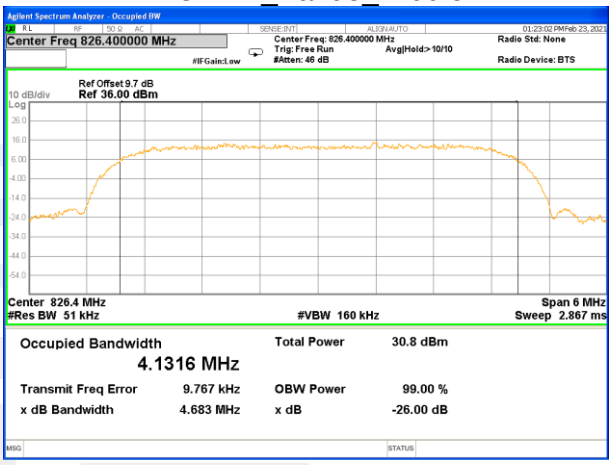
WCDMA_Band5_Low



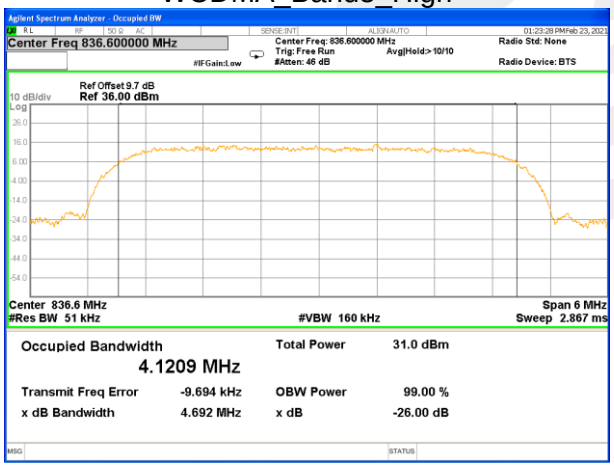
WCDMA_Band5_Middle



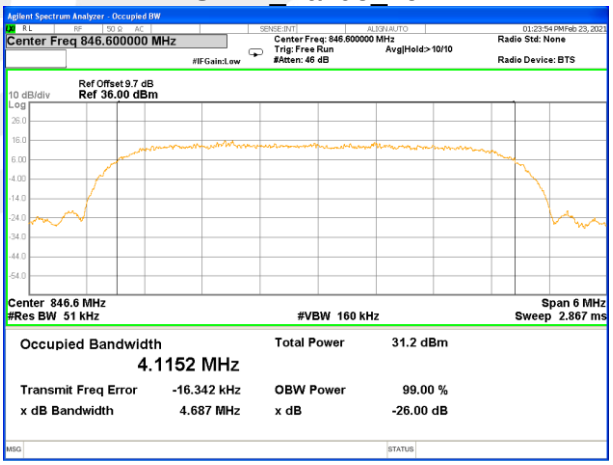
WCDMA_Band5_High



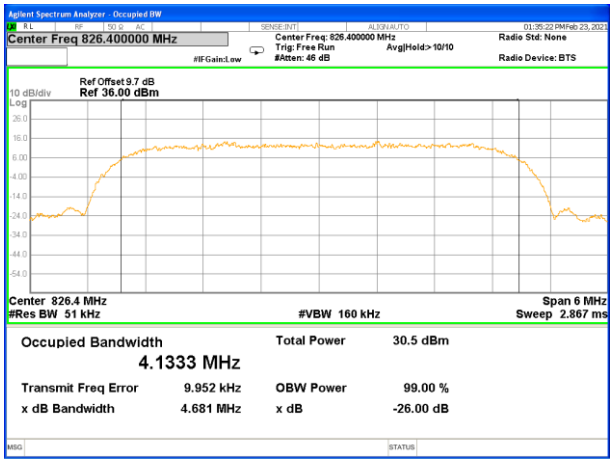
HSDPA_Band5_Low



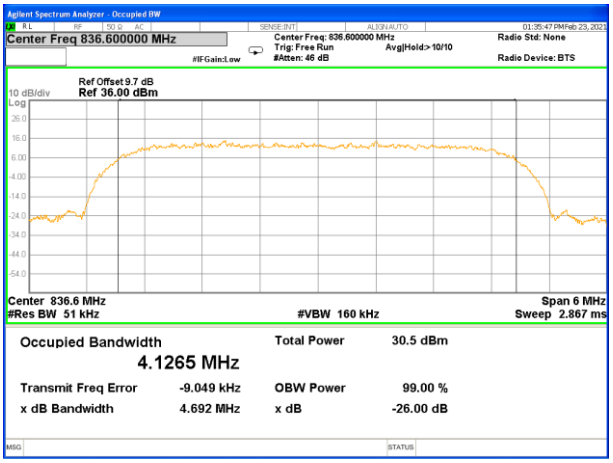
HSDPA_Band5_Middle



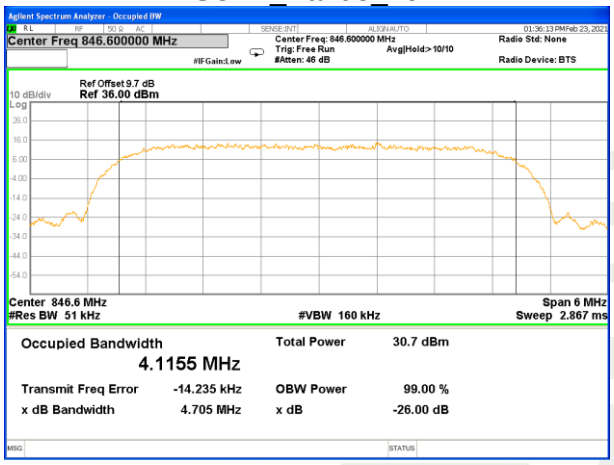
HSDPA_Band5_High



HSUPA_Band5_Low



HSUPA_Band5_Middle



HSUPA_Band5_High

A5. FREQUENCY STABILITY

Normal Voltage = 3.8V; Battery End Point (BEP) = 3.7V; Maximum Voltage =4.35V

GSM 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	27.40	0.033	2.5ppm	PASS
40		25.95	0.031		
30		34.56	0.041		
20		23.59	0.028		
10		20.27	0.024		
0		25.73	0.031		
-10		20.00	0.024		
-20		18.38	0.022		
-30		36.07	0.043		
20	Maximum Voltage	35.75	0.043		
20	BEP	34.93	0.042		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	33.72	0.040	2.5ppm	PASS
40		25.14	0.030		
30		35.46	0.042		
20		19.89	0.024		
10		15.07	0.018		
0		28.20	0.034		
-10		12.96	0.015		
-20		13.22	0.016		
-30		27.46	0.033		
20	Maximum Voltage	16.02	0.019		
20	BEP	25.35	0.030		

EGPRS 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	25.17	0.030	2.5ppm	PASS
40		28.94	0.035		
30		19.03	0.023		
20		32.27	0.039		
10		34.22	0.041		
0		34.78	0.042		
-10		28.45	0.034		
-20		27.06	0.032		
-30		30.60	0.037		
20	Maximum Voltage	23.90	0.029		
20	BEP	31.68	0.038		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	12.62	0.007	Within Authorized Band	PASS
40		19.02	0.010		
30		17.93	0.010		
20		35.41	0.019		
10		31.67	0.017		
0		18.11	0.010		
-10		18.78	0.010		
-20		25.38	0.014		
-30		30.46	0.016		
20	Maximum Voltage	22.12	0.012		
20	BEP	34.59	0.018		

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	30.22	0.016	Within Authorized Band	PASS
40		24.27	0.013		
30		21.50	0.011		
20		27.93	0.015		
10		21.35	0.011		
0		13.04	0.007		
-10		19.50	0.010		
-20		30.15	0.016		
-30		22.01	0.012		
20	Maximum Voltage	30.08	0.016		
20	BEP	35.75	0.019		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	21.10	0.011	Within Authorized Band	PASS
40		21.78	0.012		
30		31.53	0.017		
20		34.33	0.018		
10		33.42	0.018		
0		34.25	0.018		
-10		12.24	0.007		
-20		16.85	0.009		
-30		15.06	0.008		
20	Maximum Voltage	12.06	0.006		
20	BEP	16.73	0.009		

UMTS Band 2 /1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	25.97	0.014	Within Authorized Band	PASS
40		18.97	0.010		
30		13.27	0.007		
20		21.82	0.012		
10		22.78	0.012		
0		32.78	0.017		
-10		16.30	0.009		
-20		28.30	0.015		
-30		24.85	0.013		
20	Maximum Voltage	36.23	0.019		
20	BEP	17.87	0.010		

HSDPA Band 2 /1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	24.96	0.013	Within Authorized Band	PASS
40		32.47	0.017		
30		28.04	0.015		
20		14.65	0.008		
10		22.85	0.012		
0		11.62	0.006		
-10		35.19	0.019		
-20		23.26	0.012		
-30		15.49	0.008		
20	Maximum Voltage	14.42	0.008		
20	BEP	35.28	0.019		

HSUPA Band 2 /1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	17.85	0.009	Within Authorized Band	PASS
40		17.95	0.010		
30		27.38	0.015		
20		34.90	0.019		
10		25.59	0.014		
0		28.56	0.015		
-10		21.72	0.012		
-20		25.54	0.014		
-30		16.94	0.009		
20	Maximum Voltage	34.87	0.019		
20	BEP	21.04	0.011		

UMTS Band 5 / 836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	19.81	0.024	2.5ppm	PASS
40		23.75	0.028		
30		14.82	0.018		
20		20.11	0.024		
10		15.72	0.019		
0		31.81	0.038		
-10		14.15	0.017		
-20		30.12	0.036		
-30		26.54	0.032		
20	Maximum Voltage	34.54	0.041		
20	BEP	30.74	0.037		

HSDPA Band 5 / 836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev.	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	35.67	0.043	2.5ppm	PASS
40		19.51	0.023		
30		19.47	0.023		
20		23.25	0.028		
10		32.29	0.039		
0		17.02	0.020		
-10		18.61	0.022		
-20		22.90	0.027		
-30		17.04	0.020		
20	Maximum Voltage	27.96	0.033		
20	BEP	21.03	0.025		

HSUPA Band 5 / 836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	28.87	0.035	2.5ppm	PASS
40		19.91	0.024		
30		17.02	0.020		
20		29.48	0.035		
10		14.68	0.018		
0		24.90	0.030		
-10		30.88	0.037		
-20		16.49	0.020		
-30		18.40	0.022		
20	Maximum Voltage	21.64	0.026		
20	BEP	27.47	0.033		

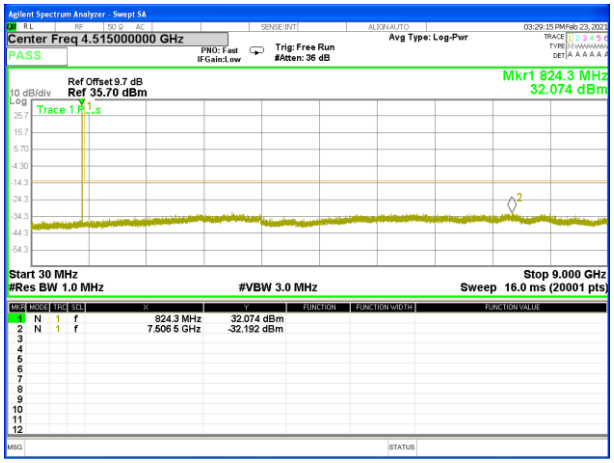
UMTS Band 4 /1740MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	30.28	0.016	Within Authorized Band	PASS
40		29.96	0.016		
30		22.52	0.012		
20		17.58	0.009		
10		27.46	0.015		
0		14.86	0.008		
-10		21.15	0.011		
-20		15.42	0.008		
-30		14.70	0.008		
20	Maximum Voltage	16.78	0.009		
20	BEP	32.64	0.017		

HSDPA Band 4 /1740MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	15.98	0.009	Within Authorized Band	PASS
40		21.80	0.012		
30		30.00	0.016		
20		12.23	0.007		
10		31.93	0.017		
0		15.97	0.008		
-10		18.96	0.010		
-20		25.14	0.013		
-30		30.80	0.016		
20	Maximum Voltage	12.29	0.007		
20	BEP	26.04	0.014		

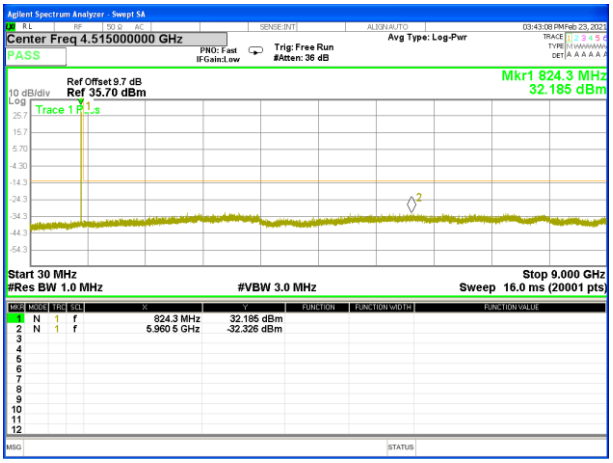
HSUPA Band 4 /1740MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	15.87	0.008	Within Authorized Band	PASS
40		23.36	0.012		
30		13.07	0.007		
20		13.54	0.007		
10		27.45	0.015		
0		15.66	0.008		
-10		24.04	0.013		
-20		23.75	0.013		
-30		22.87	0.012		
20	Maximum Voltage	16.81	0.009		
20	BEP	36.17	0.019		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

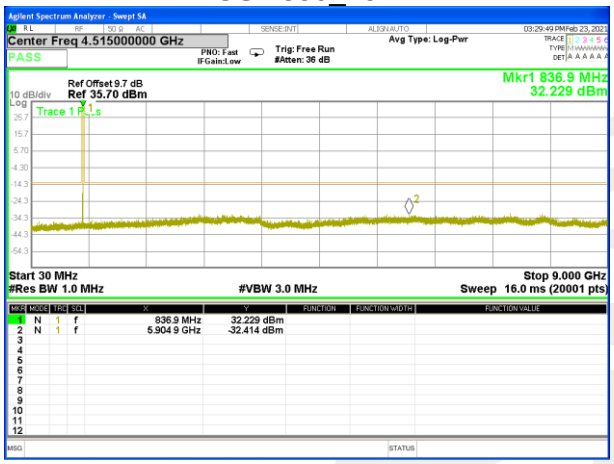
A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS



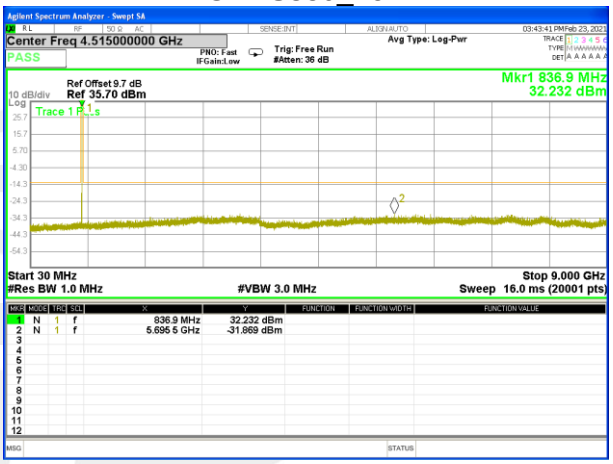
GSM850_Low



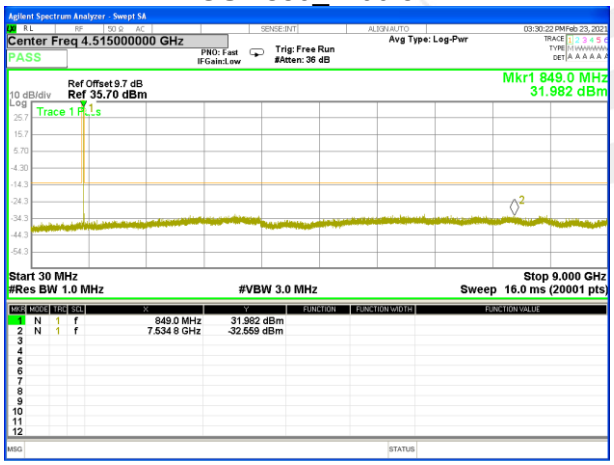
GPRS850_Low



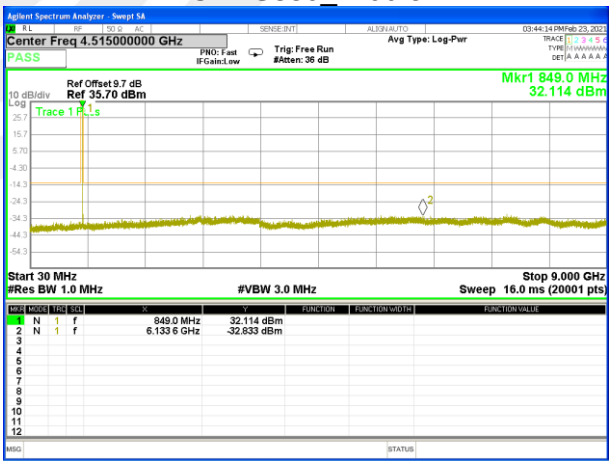
GSM850_Middle



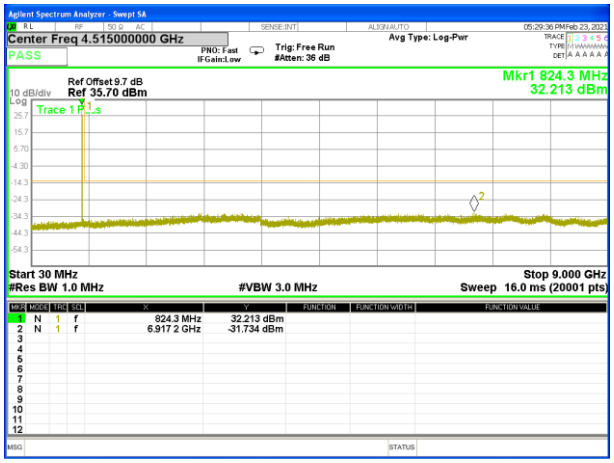
GPRS850_Middle



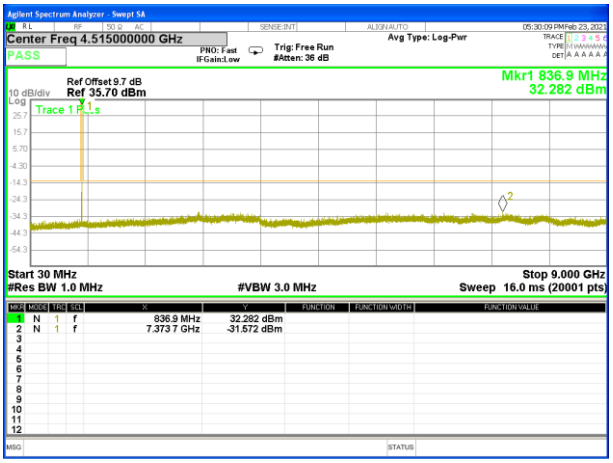
GSM850_High



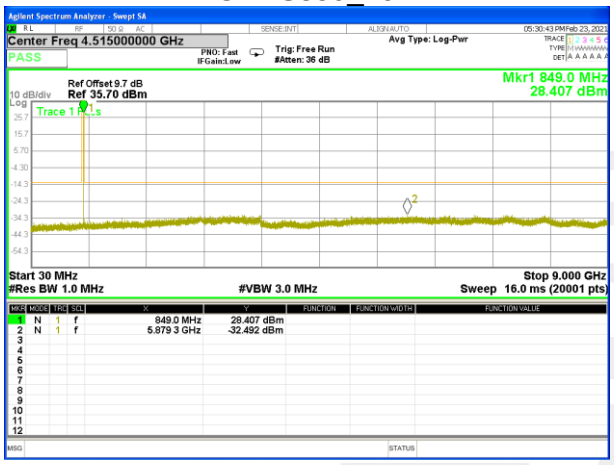
GPRS850_High



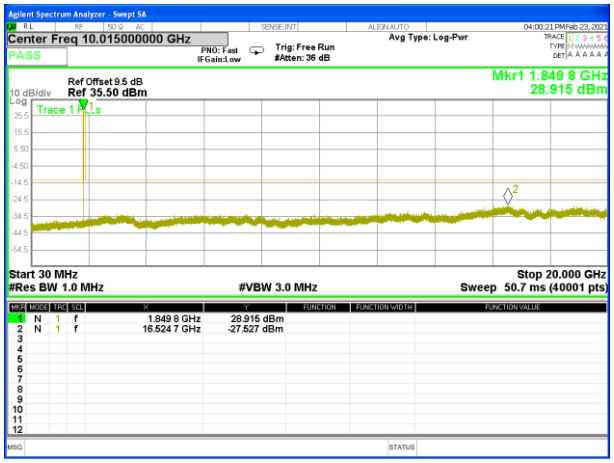
EGPRS850_Low



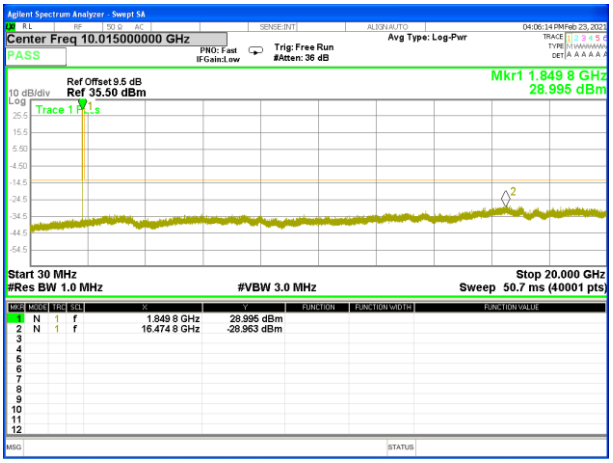
EGPRS850_Middle



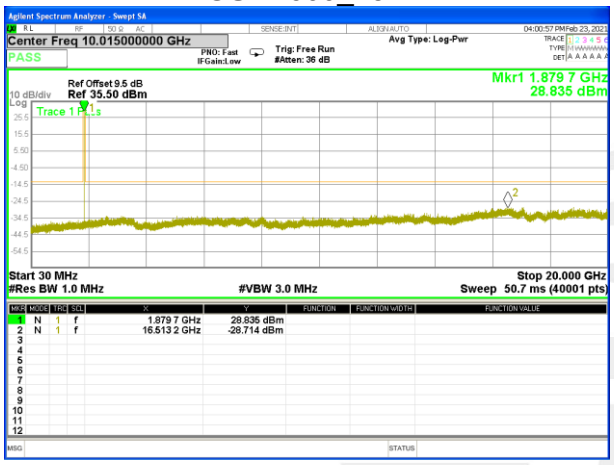
EGPRS850_High



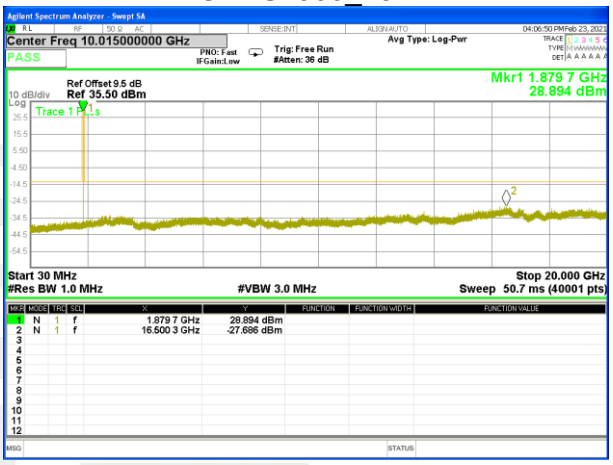
GSM1900_Low



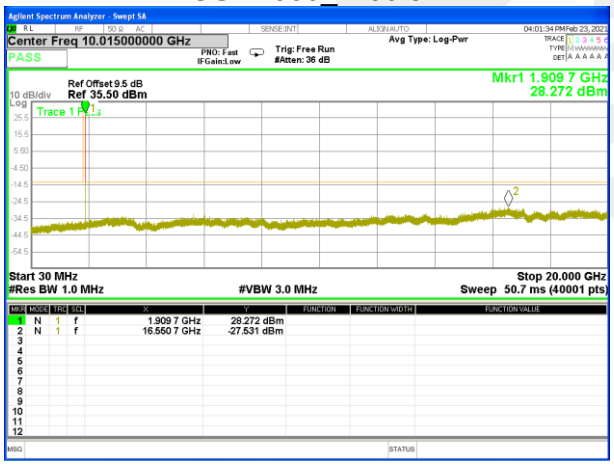
GPRS1900_Low



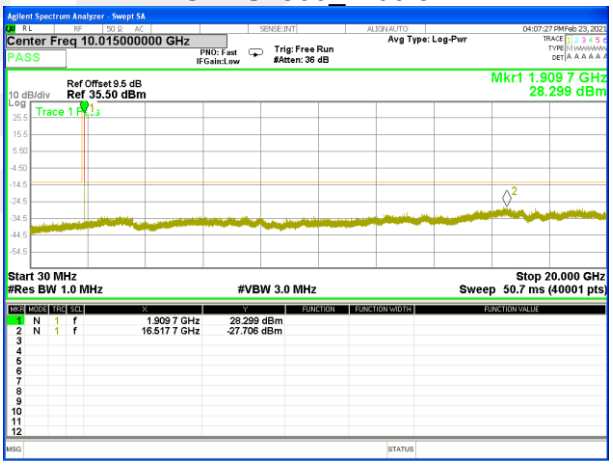
GSM1900_Middle



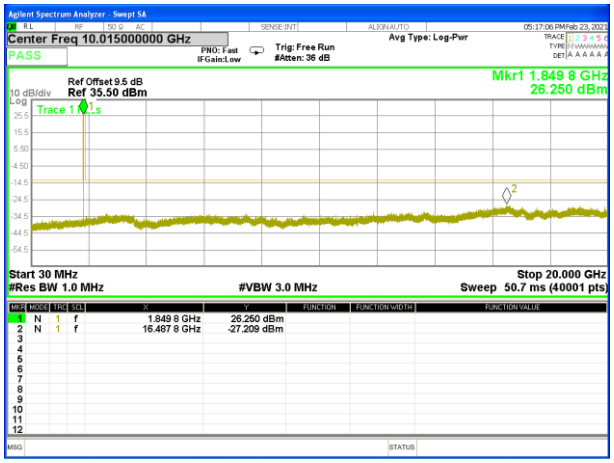
GPRS1900_Middle



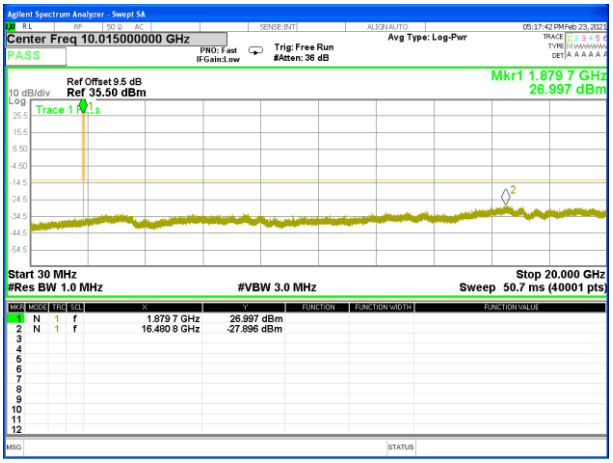
GSM1900_High



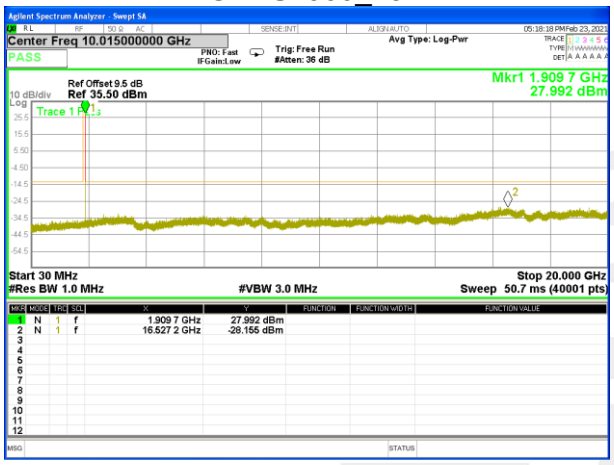
GPRS1900_High



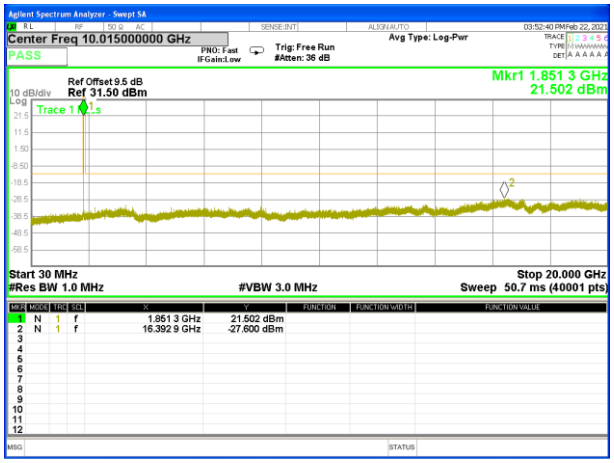
EGPRS1900_Low



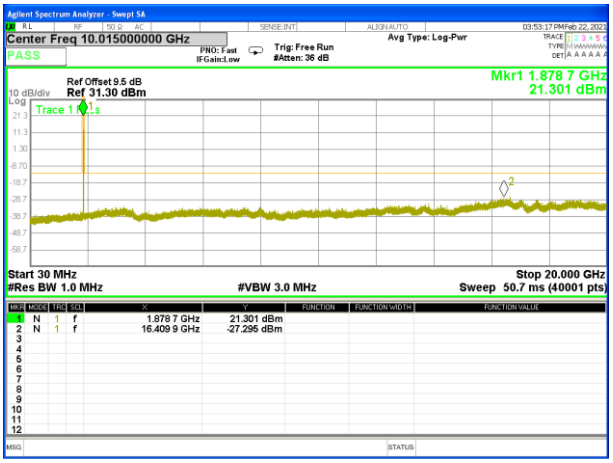
EGPRS1900_Middle



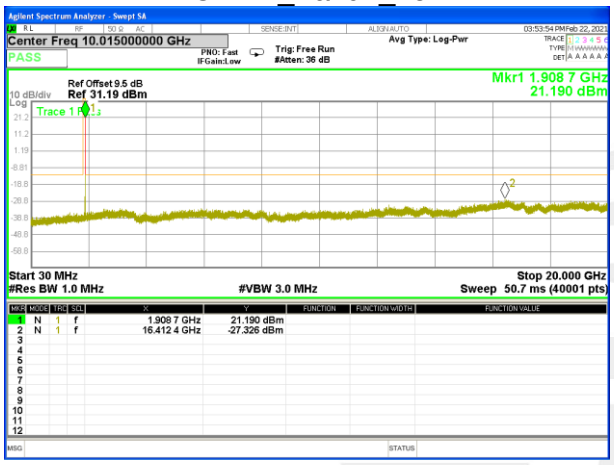
EGPRS1900_High



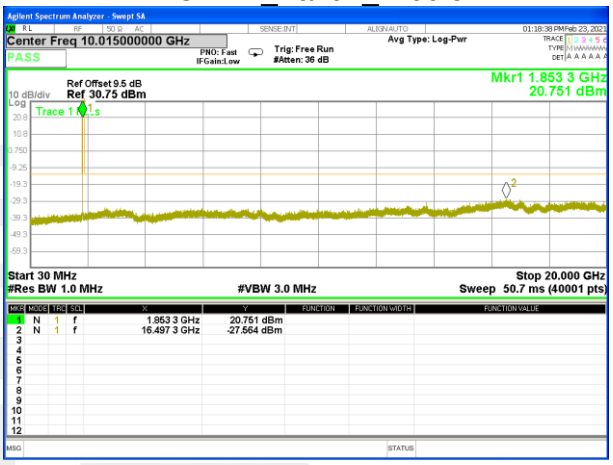
WCDMA_Band2_Low



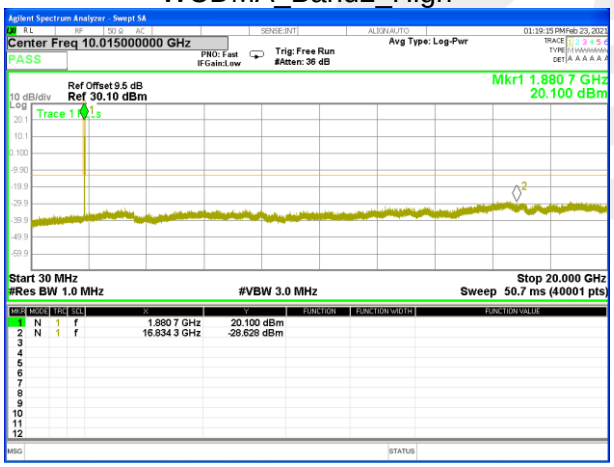
WCDMA_Band2_Middle



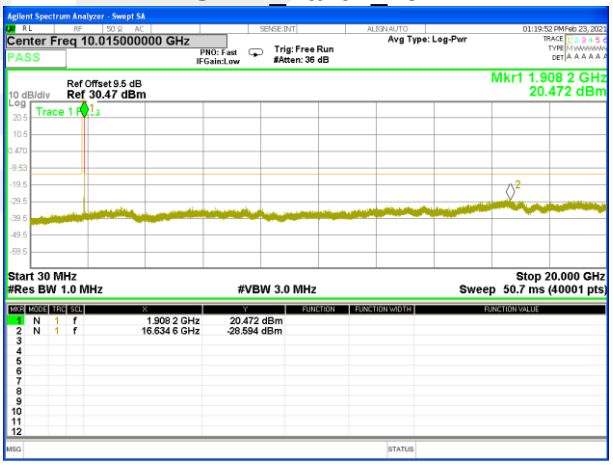
WCDMA_Band2_High



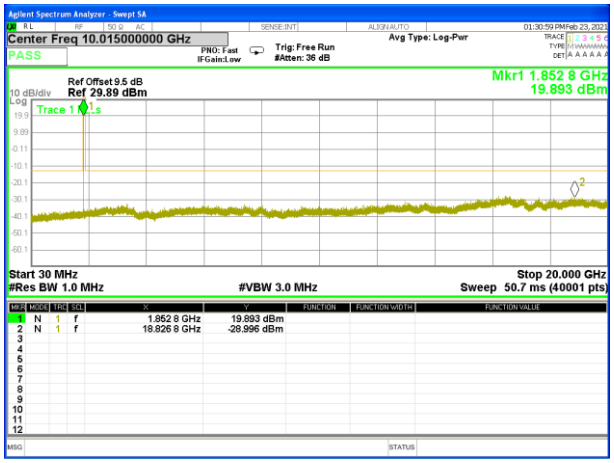
HSDPA_Band2_Low



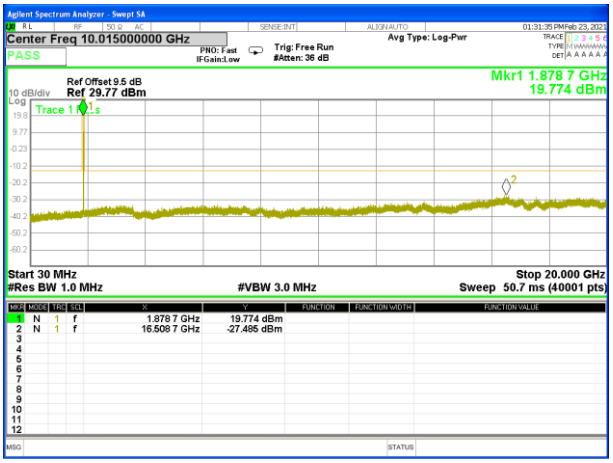
HSDPA_Band2_Middle



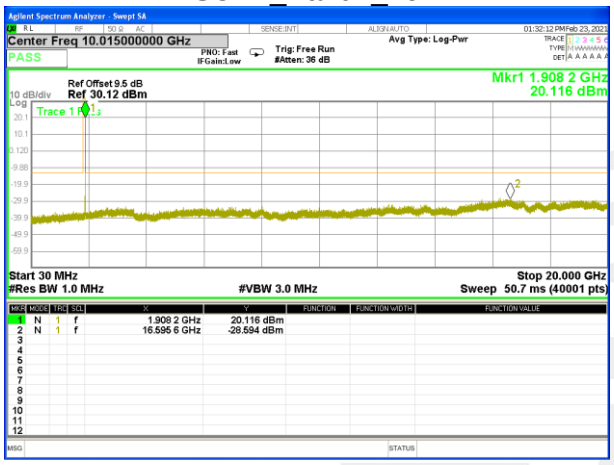
HSDPA_Band2_High



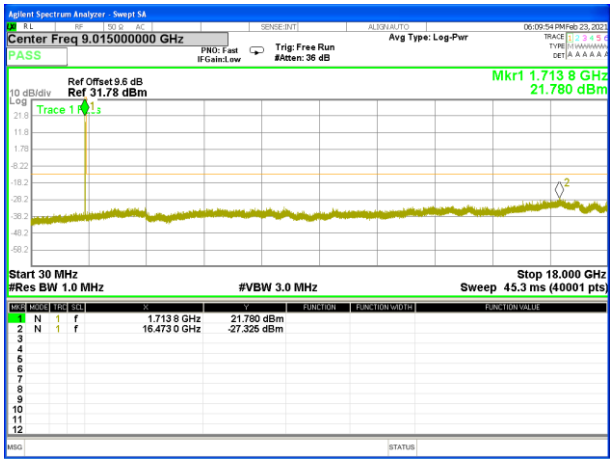
HSUPA_Band2_Low



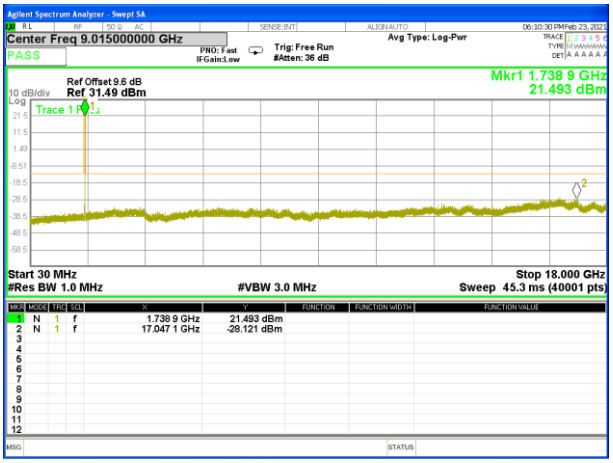
HSUPA_Band2_Middle



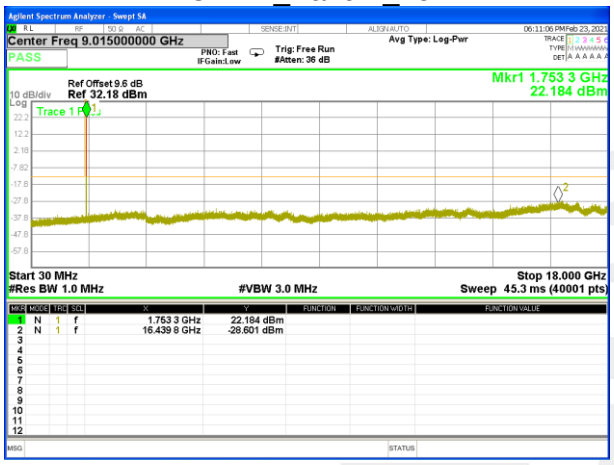
HSUPA_Band2_High



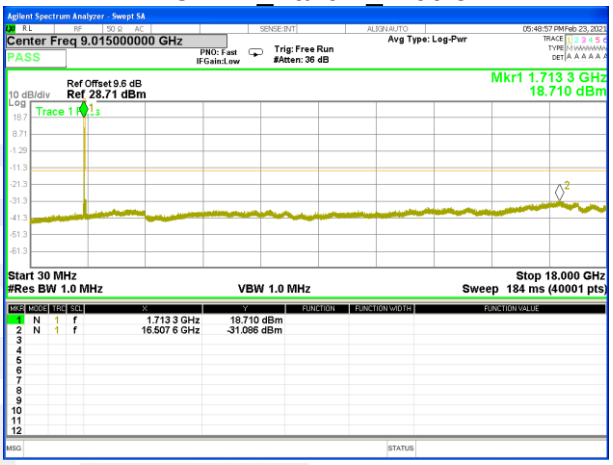
WCDMA_Band 4_Low



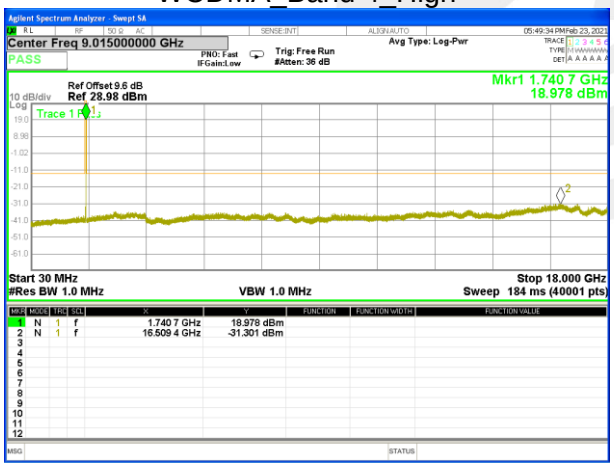
WCDMA_Band 4_Middle



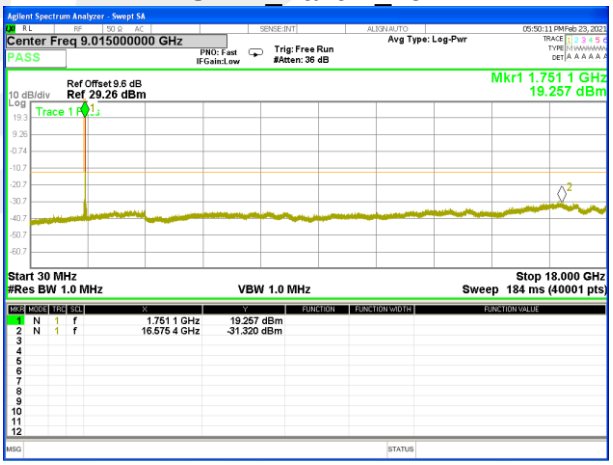
WCDMA_Band 4_High



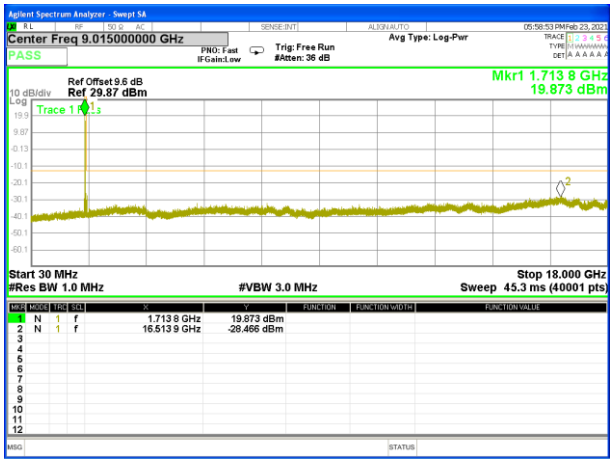
HSDPA_Band 4_Low



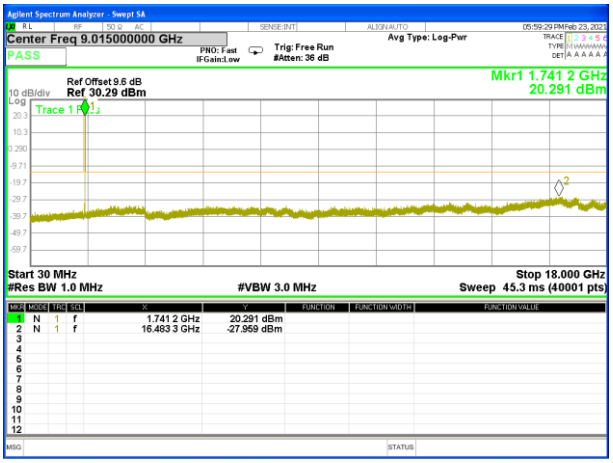
HSDPA_Band 4_Middle



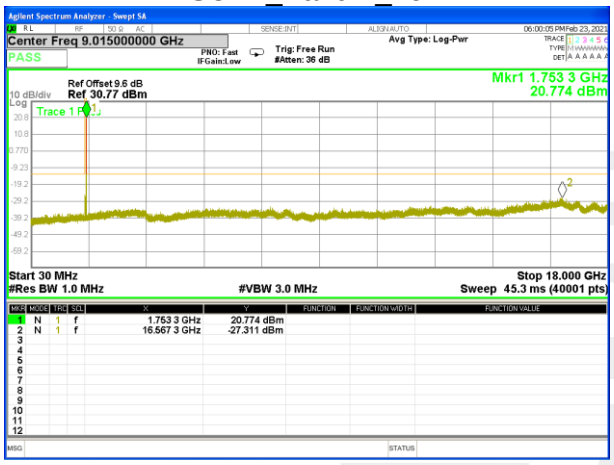
HSDPA_Band 4_High



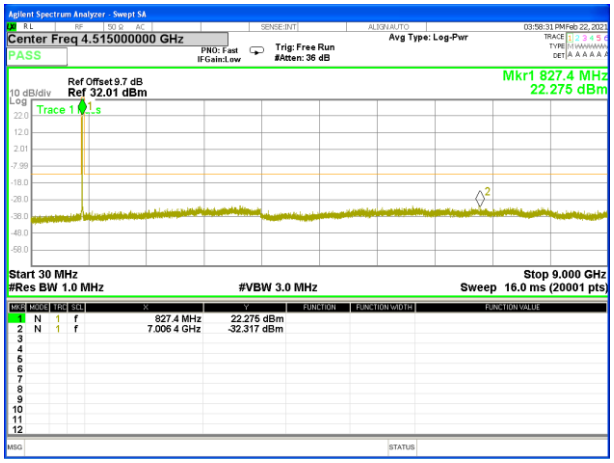
HSUPA_Band 4_Low



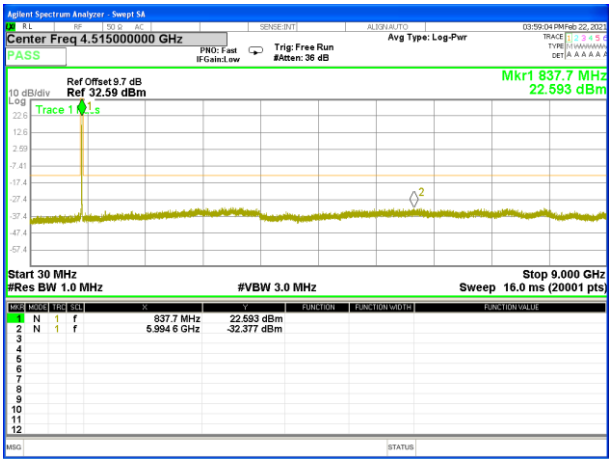
HSUPA_Band 4_Middle



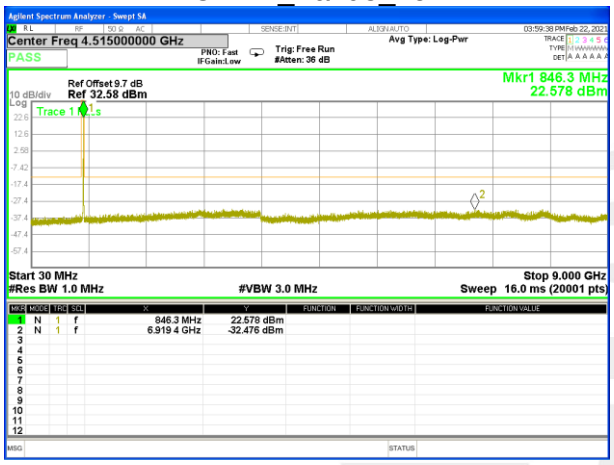
HSUPA_Band 4_High



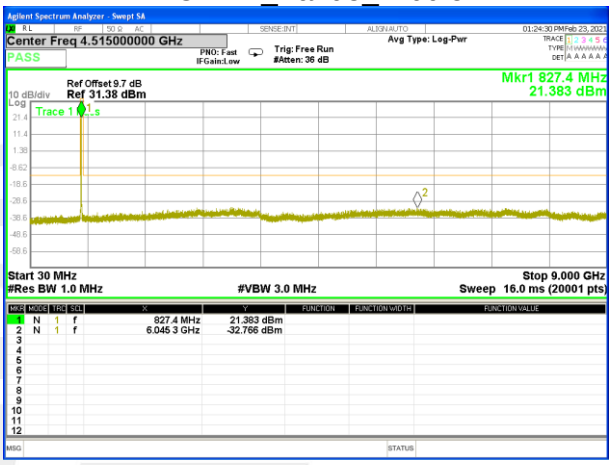
WCDMA_Band5_Low



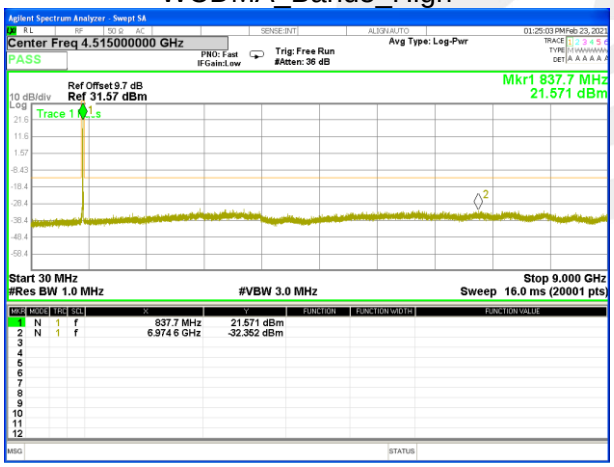
WCDMA_Band5_Middle



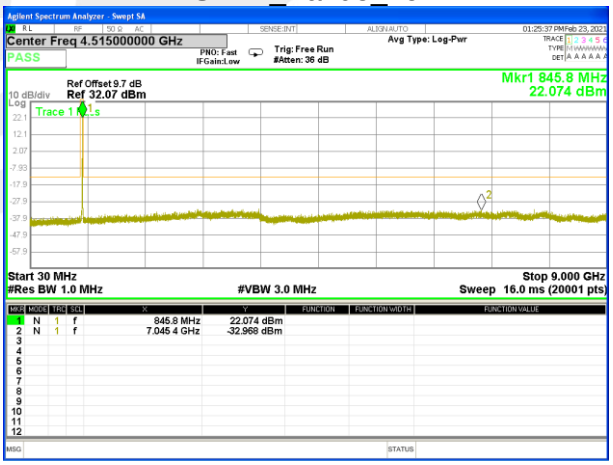
WCDMA_Band5_High



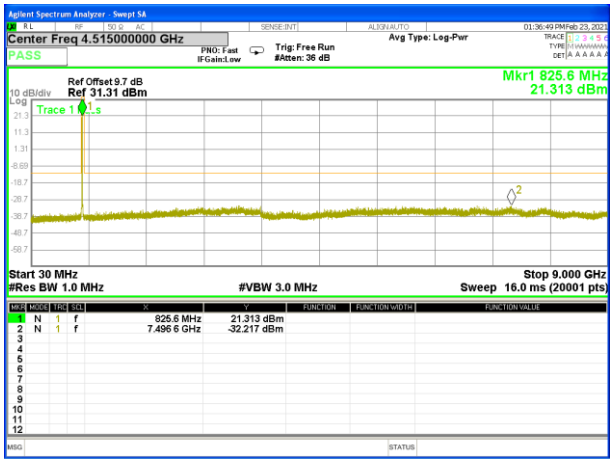
HSDPA_Band5_Low



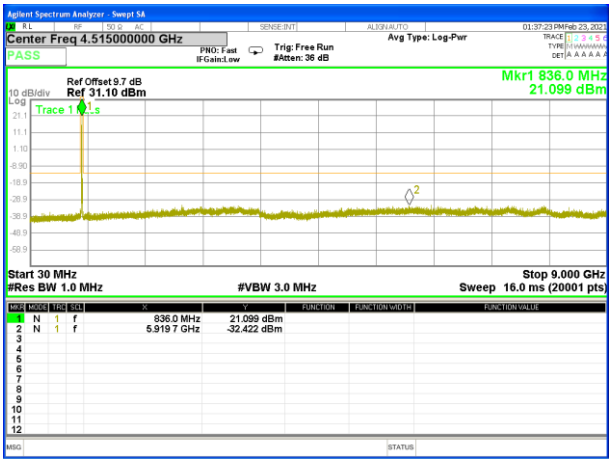
HSDPA_Band5_Middle



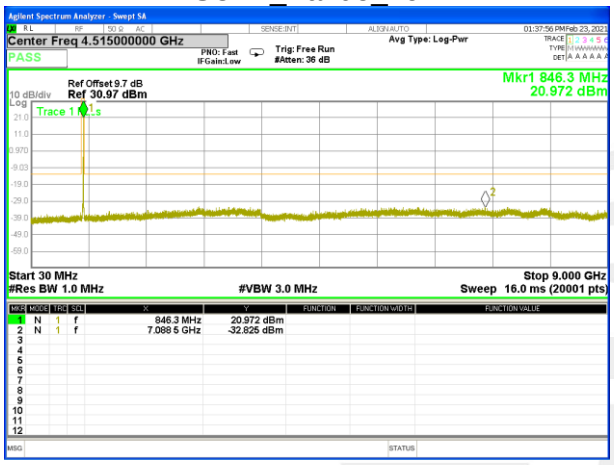
HSDPA_Band5_High



HSUPA_Band5_Low

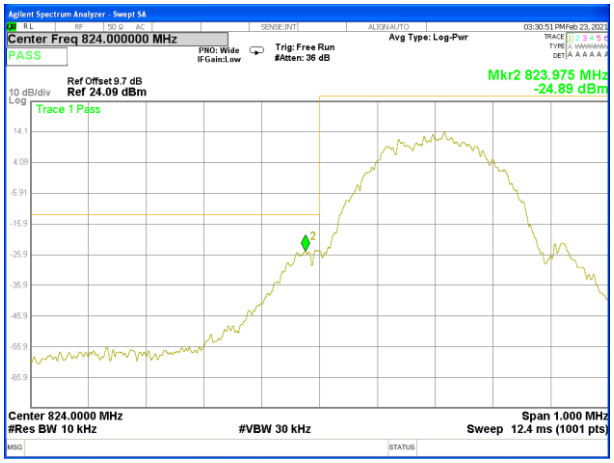


HSUPA_Band5_Middle

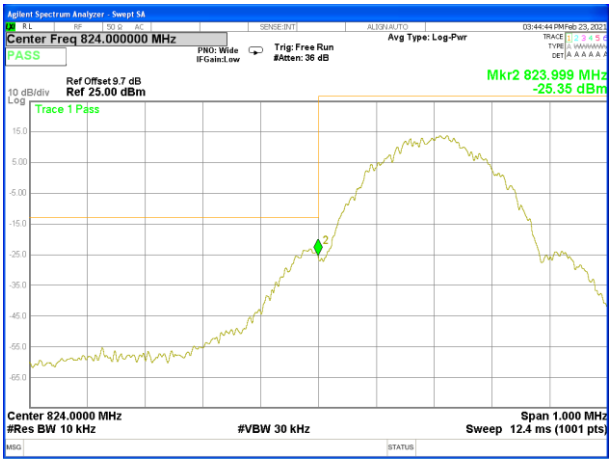


HSUPA_Band5_High

A7. BAND EDGE

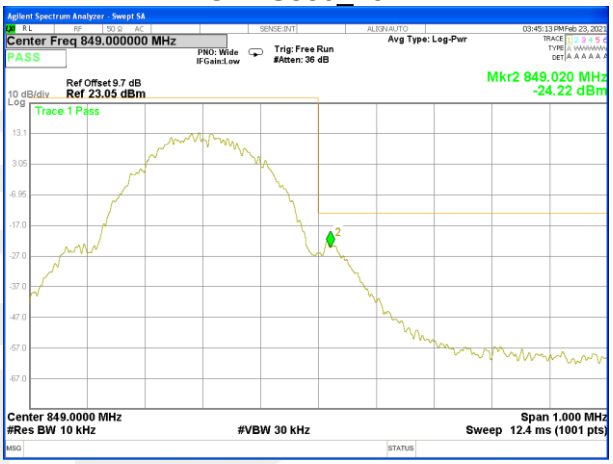


GSM850_Low

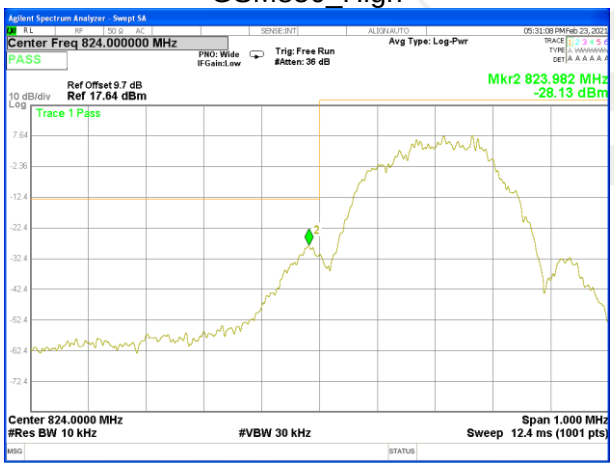


GPRS850_Low

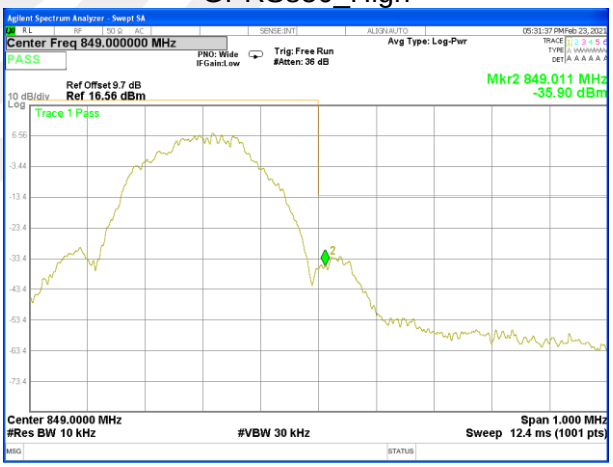
GSM850_High



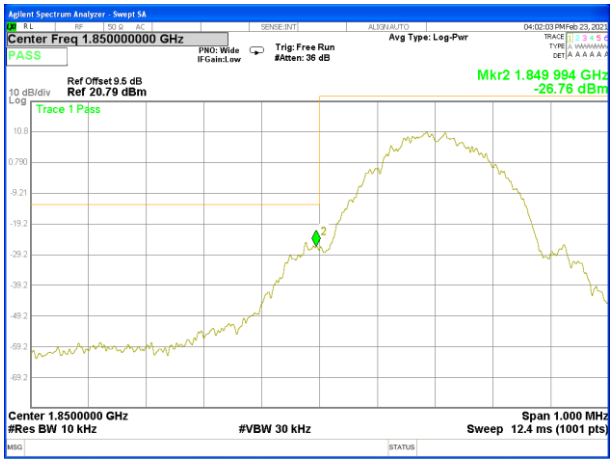
GPRS850_High



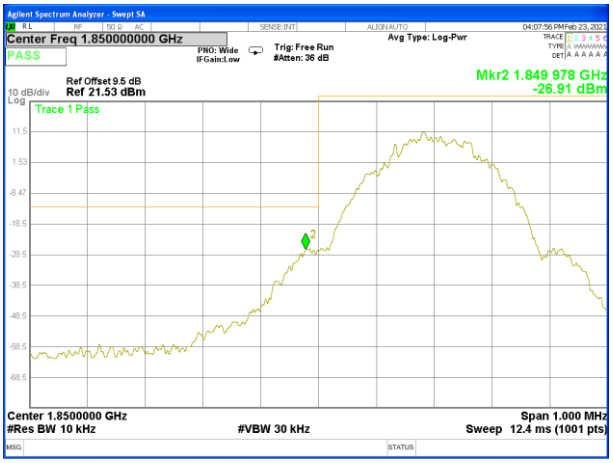
EGPRS850_Low



EGPRS850_High



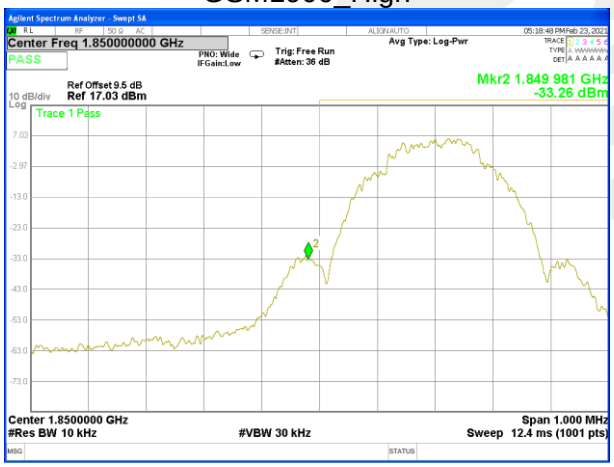
GSM1900_Low



GPRS1900_Low

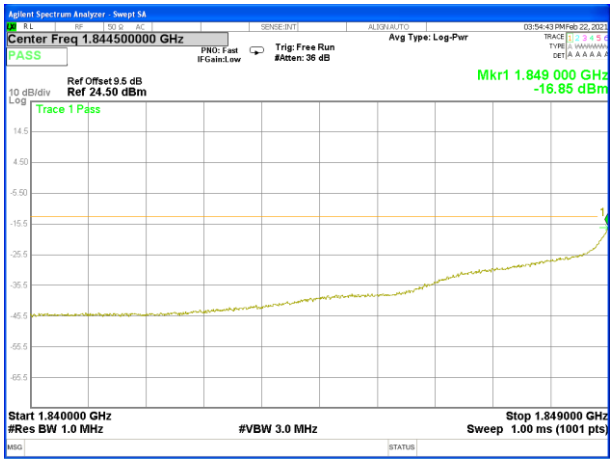
GSM1900_High

GPRS1900_High

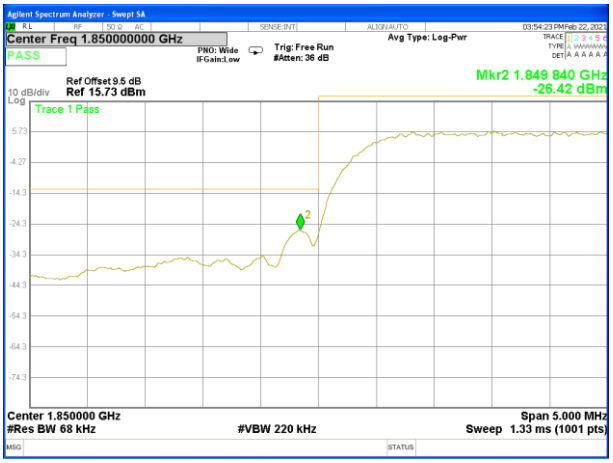


EGPRS1900_Low

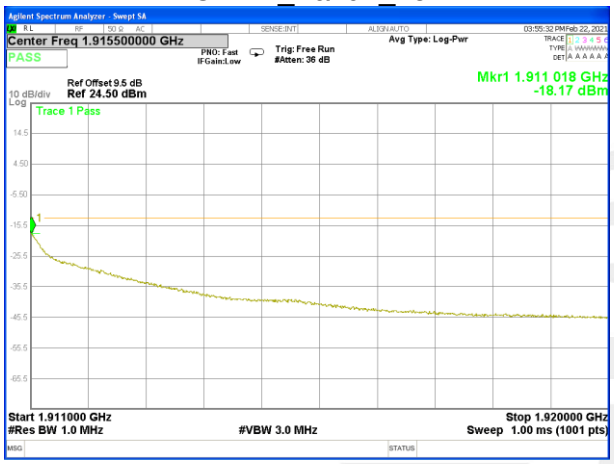
EGPRS1900_High



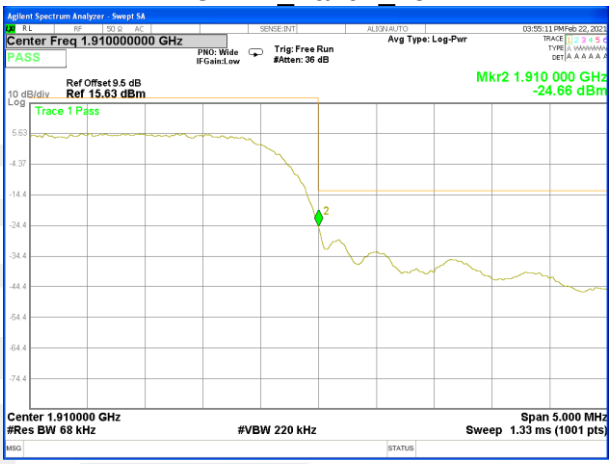
WCDMA_Band2_Low



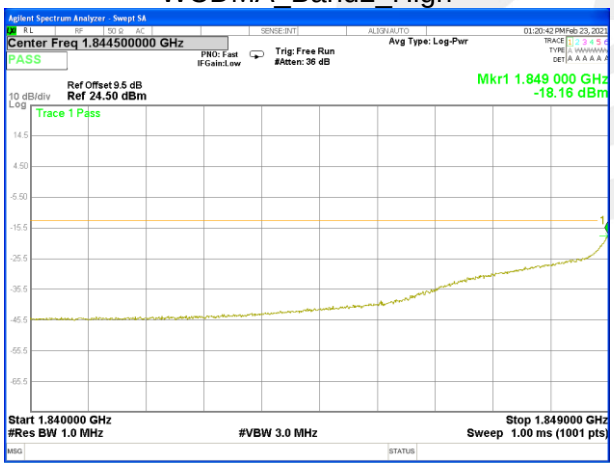
WCDMA_Band2_Low



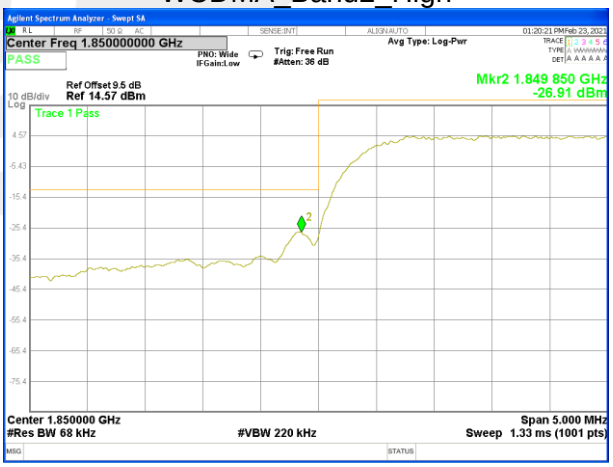
WCDMA_Band2_High



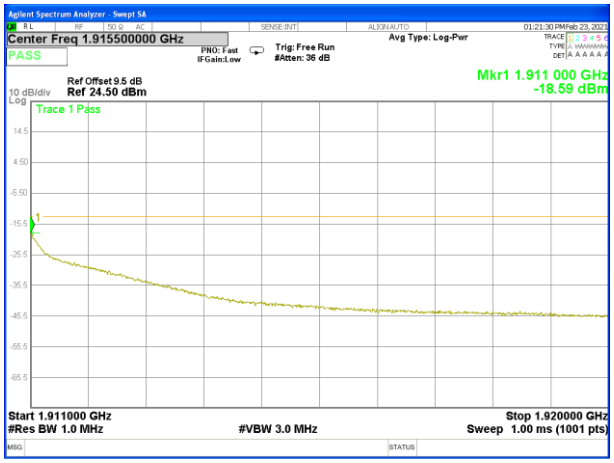
WCDMA_Band2_High



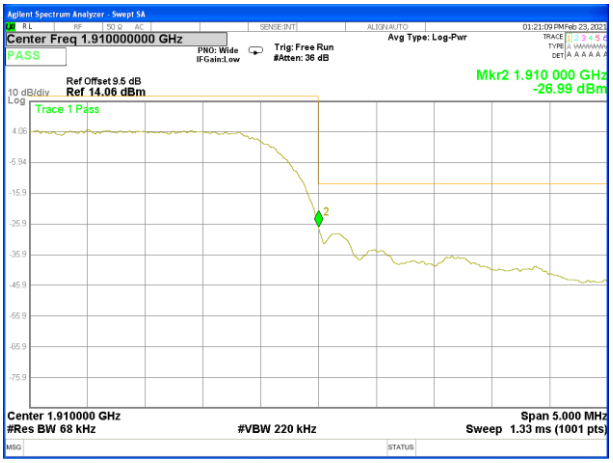
HSDPA_Band2_Low



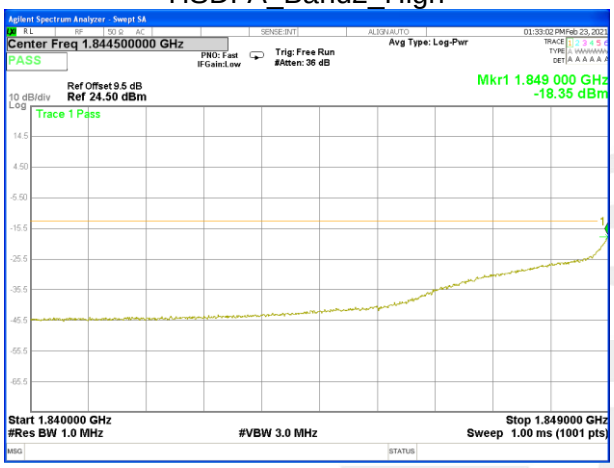
HSDPA_Band2_Low



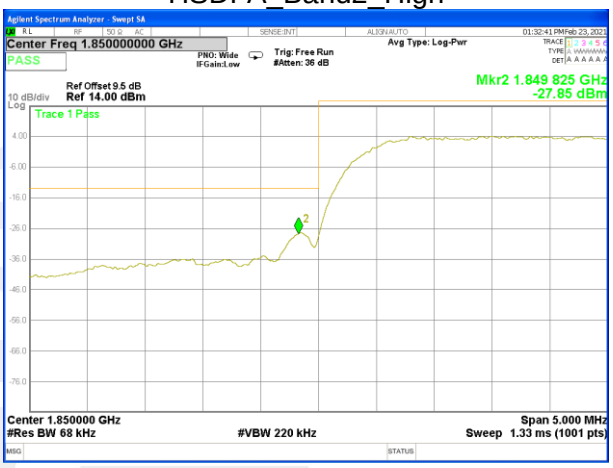
HSDPA_Band2_High



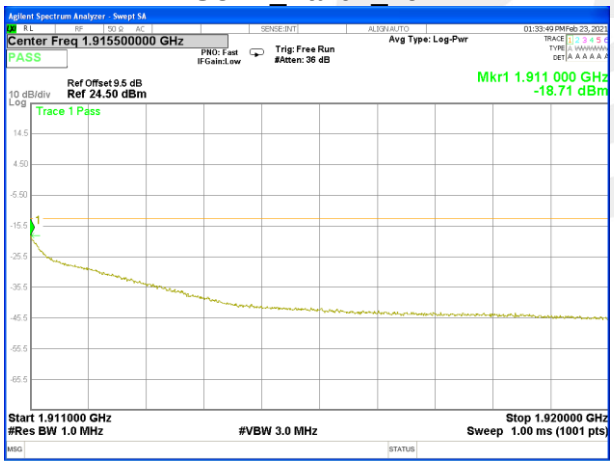
HSDPA_Band2_High



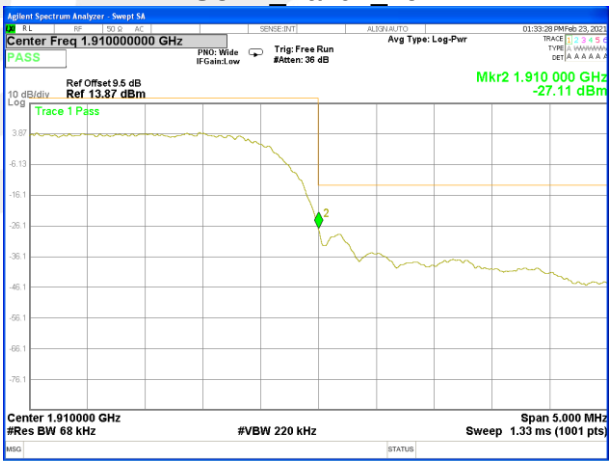
HSUPA_Band2_Low



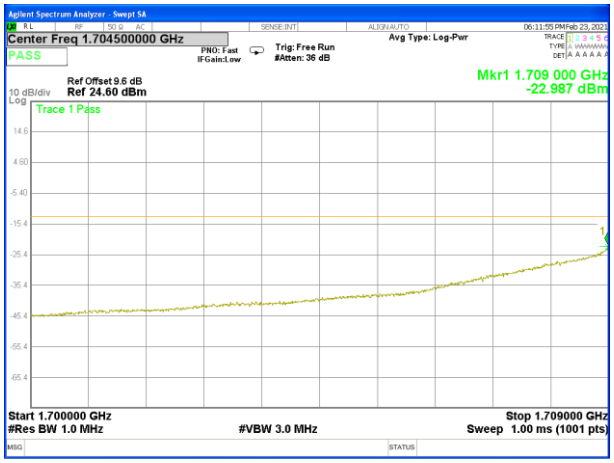
HSUPA_Band2_Low



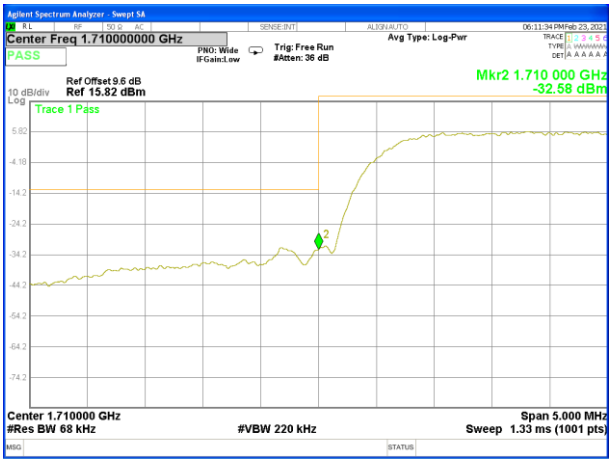
HSUPA_Band2_High



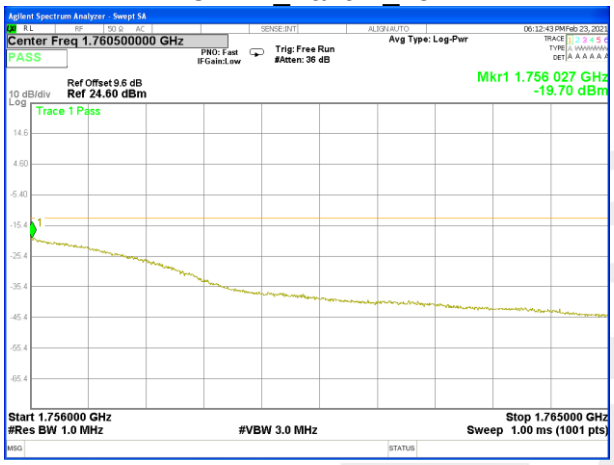
HSUPA_Band2_High



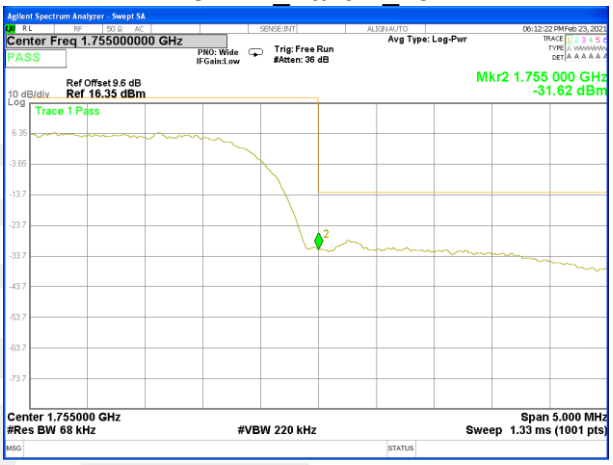
WCDMA_Band 4_Low



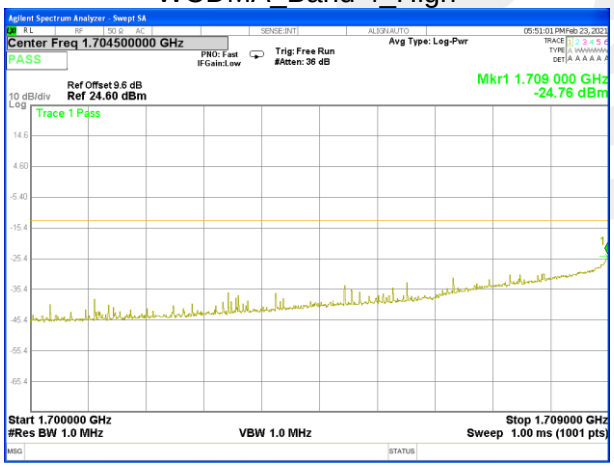
WCDMA_Band 4_Low



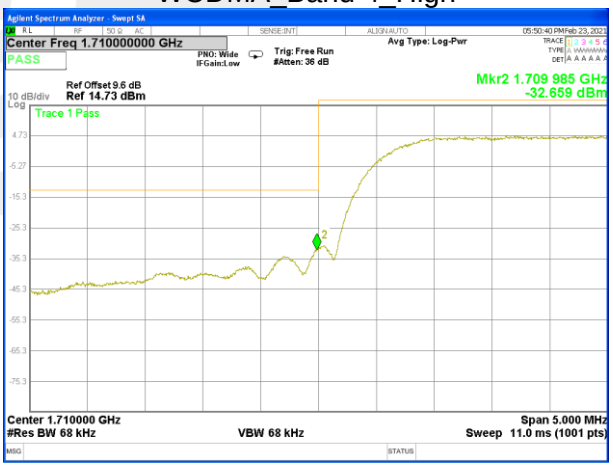
WCDMA_Band 4_High



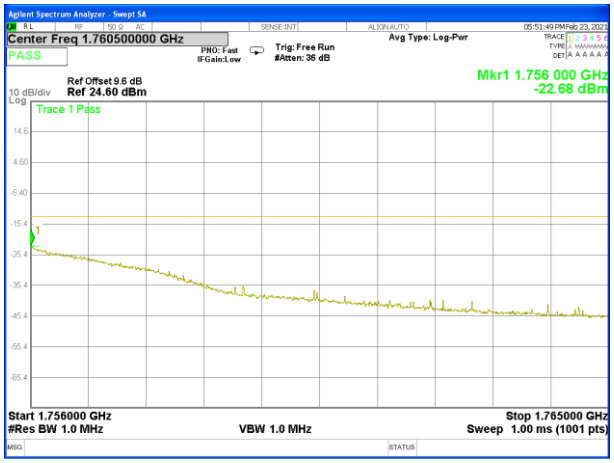
WCDMA_Band 4_High



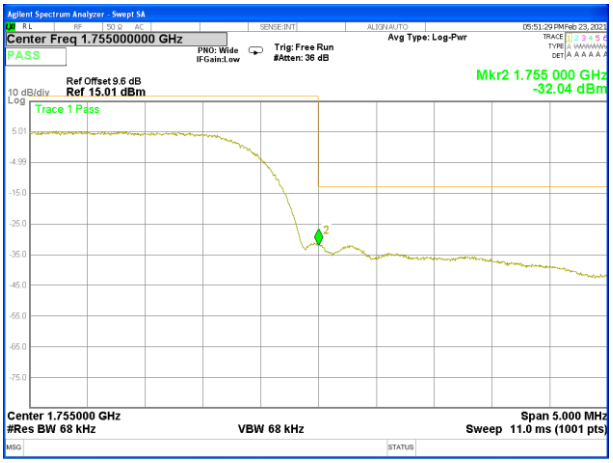
HSDPA_Band 4_Low



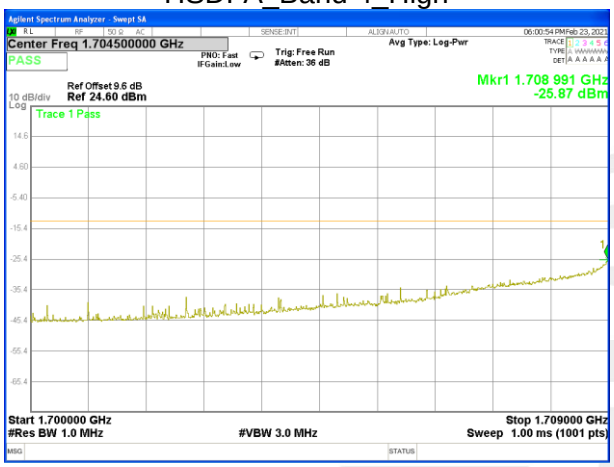
HSDPA_Band 4_Low



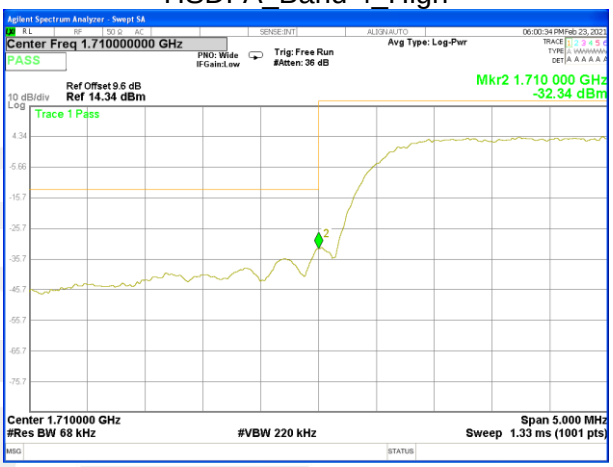
HSDPA_Band 4_High



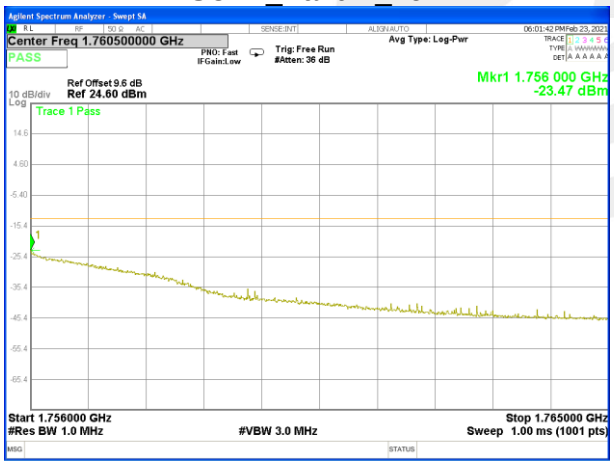
HSDPA_Band 4_High



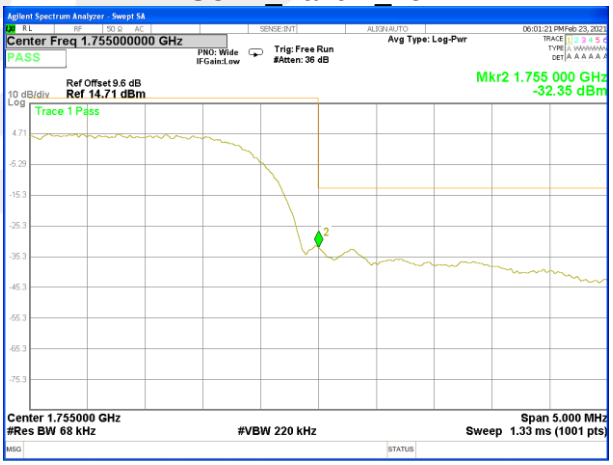
HSUPA_Band 4_Low



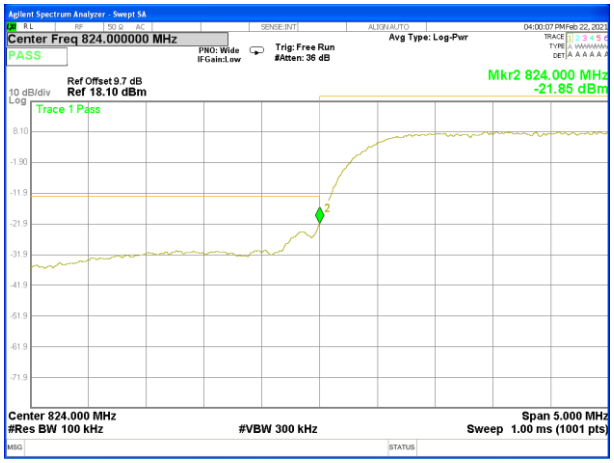
HSUPA_Band 4_Low



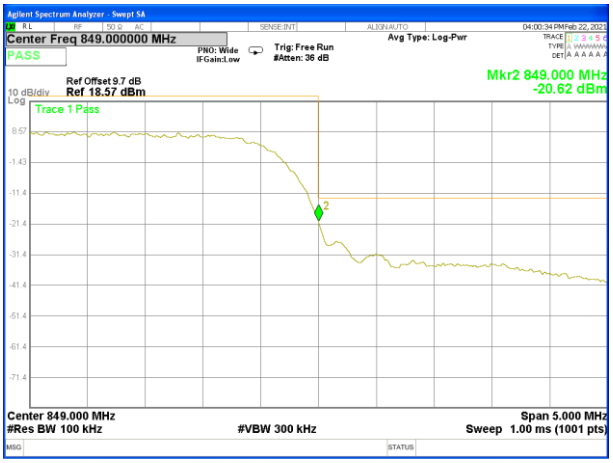
HSUPA_Band 4_High



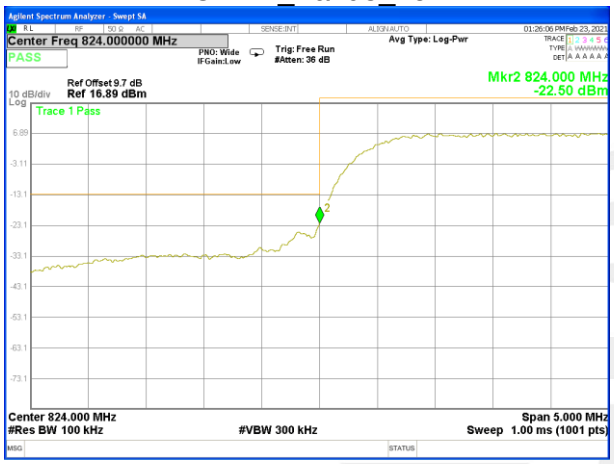
HSUPA_Band 4_High



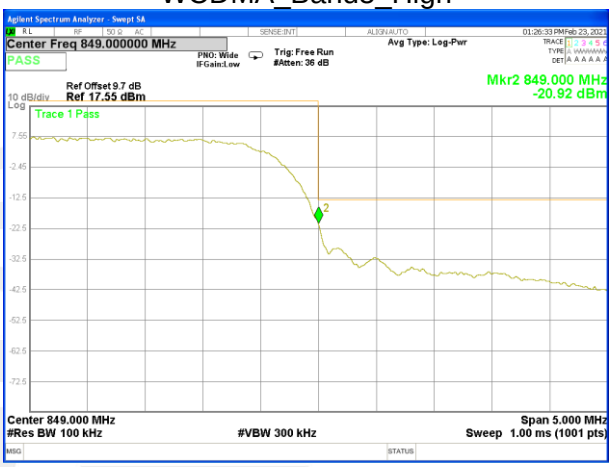
WCDMA_Band5_Low



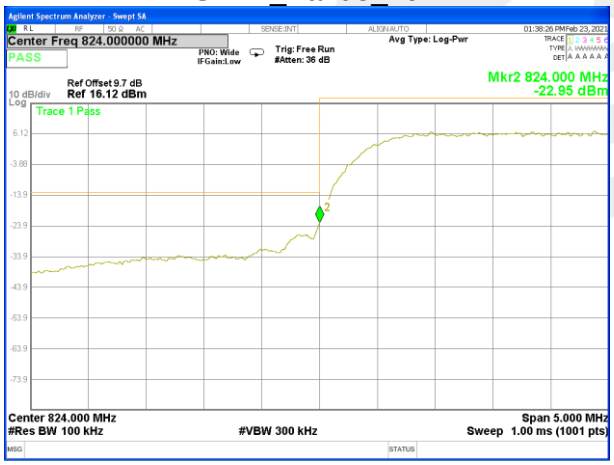
WCDMA_Band5_High



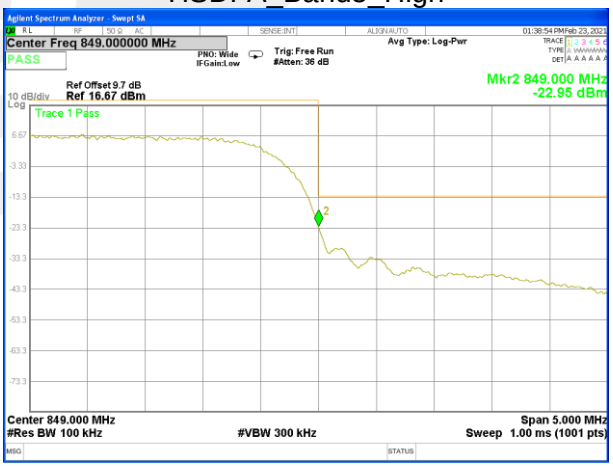
HSDPA_Band5_Low



HSDPA_Band5_High



HSUPA_Band5_Low



HSUPA_Band5_High

A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequeny below 1000MHz.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

GSM 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1648.34	-40.40	9.40	4.75	-35.75	-13.00	-22.75	H
2472.64	-39.41	10.60	8.39	-37.20	-13.00	-24.20	H
3296.76	-32.20	12.00	11.79	-31.99	-13.00	-18.99	H
1648.17	-44.07	9.40	4.75	-39.42	-13.00	-26.42	V
2472.71	-44.33	10.60	8.39	-42.12	-13.00	-29.12	V
3296.74	-42.87	12.00	11.79	-42.66	-13.00	-29.66	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.15	-40.60	9.50	4.76	-35.86	-13.00	-22.86	H
2509.66	-40.13	10.70	8.40	-37.83	-13.00	-24.83	H
3346.18	-32.00	12.20	11.80	-31.60	-13.00	-18.60	H
1672.90	-44.55	9.40	4.75	-39.90	-13.00	-26.90	V
2509.47	-45.10	10.60	8.39	-42.89	-13.00	-29.89	V
3346.01	-43.60	12.20	11.82	-43.22	-13.00	-30.22	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1697.23	-41.56	9.60	4.77	-36.73	-13.00	-23.73	H
2546.19	-40.41	10.80	8.50	-38.11	-13.00	-25.11	H
3395.02	-31.30	12.50	11.90	-30.70	-13.00	-17.70	H
1697.42	-43.38	9.60	4.77	-38.55	-13.00	-25.55	V
2546.40	-44.82	10.80	8.50	-42.52	-13.00	-29.52	V
3395.20	-43.51	12.50	11.90	-42.91	-13.00	-29.91	V

GPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1648.44	-41.56	9.40	4.75	-36.91	-13.00	-23.91	H
2472.58	-39.60	10.60	8.39	-37.39	-13.00	-24.39	H
3296.74	-31.86	12.00	11.79	-31.65	-13.00	-18.65	H
1648.23	-44.43	9.40	4.75	-39.78	-13.00	-26.78	V
2472.30	-44.51	10.60	8.39	-42.30	-13.00	-29.30	V
3296.59	-43.49	12.00	11.79	-43.28	-13.00	-30.28	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.17	-40.50	9.50	4.76	-35.76	-13.00	-22.76	H
2509.57	-39.84	10.70	8.40	-37.54	-13.00	-24.54	H
3346.34	-31.99	12.20	11.80	-31.59	-13.00	-18.59	H
1673.21	-44.05	9.40	4.75	-39.40	-13.00	-26.40	V
2509.89	-44.05	10.60	8.39	-41.84	-13.00	-28.84	V
3346.24	-43.01	12.20	11.82	-42.63	-13.00	-29.63	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1697.44	-41.03	9.60	4.77	-36.20	-13.00	-23.20	H
2546.42	-39.45	10.80	8.50	-37.15	-13.00	-24.15	H
3394.91	-30.99	12.50	11.90	-30.39	-13.00	-17.39	H
1697.40	-43.36	9.60	4.77	-38.53	-13.00	-25.53	V
2546.26	-44.08	10.80	8.50	-41.78	-13.00	-28.78	V
3395.11	-43.11	12.50	11.90	-42.51	-13.00	-29.51	V

EGPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1648.44	-40.87	9.40	4.75	-36.22	-13.00	-23.22	H
2472.61	-39.17	10.60	8.39	-36.96	-13.00	-23.96	H
3296.87	-31.18	12.00	11.79	-30.97	-13.00	-17.97	H
1648.38	-44.41	9.40	4.75	-39.76	-13.00	-26.76	V
2472.22	-44.43	10.60	8.39	-42.22	-13.00	-29.22	V
3296.68	-42.98	12.00	11.79	-42.77	-13.00	-29.77	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1672.97	-40.93	9.50	4.76	-36.19	-13.00	-23.19	H
2509.61	-39.58	10.70	8.40	-37.28	-13.00	-24.28	H
3346.25	-32.22	12.20	11.80	-31.82	-13.00	-18.82	H
1673.14	-44.55	9.40	4.75	-39.90	-13.00	-26.90	V
2509.72	-44.94	10.60	8.39	-42.73	-13.00	-29.73	V
3346.05	-43.85	12.20	11.82	-43.47	-13.00	-30.47	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1697.19	-40.49	9.60	4.77	-35.66	-13.00	-22.66	H
2546.09	-40.02	10.80	8.50	-37.72	-13.00	-24.72	H
3394.95	-31.89	12.50	11.90	-31.29	-13.00	-18.29	H
1697.23	-43.36	9.60	4.77	-38.53	-13.00	-25.53	V
2546.33	-44.13	10.80	8.50	-41.83	-13.00	-28.83	V
3395.24	-42.64	12.50	11.90	-42.04	-13.00	-29.04	V

DCS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3700.03	-33.92	12.60	12.93	-34.25	-13.00	-21.25	H
5550.19	-35.49	13.10	17.11	-39.50	-13.00	-26.50	H
7400.94	-32.83	11.50	22.20	-43.53	-13.00	-30.53	H
3700.36	-34.75	12.60	12.93	-35.08	-13.00	-22.08	V
5550.21	-35.25	13.10	17.11	-39.26	-13.00	-26.26	V
7400.55	-32.42	11.50	22.20	-43.12	-13.00	-30.12	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.06	-34.91	12.60	12.93	-35.24	-13.00	-22.24	H
5640.03	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7519.91	-33.16	11.50	22.20	-43.86	-13.00	-30.86	H
3759.94	-35.46	12.60	12.93	-35.79	-13.00	-22.79	V
5640.16	-34.26	13.10	17.11	-38.27	-13.00	-25.27	V
7520.05	-32.17	11.50	22.20	-42.87	-13.00	-29.87	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3819.72	-33.76	12.60	12.93	-34.09	-13.00	-21.09	H
5729.25	-34.25	13.10	17.11	-38.26	-13.00	-25.26	H
7639.29	-32.22	11.50	22.20	-42.92	-13.00	-29.92	H
3819.72	-34.98	12.60	12.93	-35.31	-13.00	-22.31	V
5729.40	-34.50	13.10	17.11	-38.51	-13.00	-25.51	V
7639.13	-32.17	11.50	22.20	-42.87	-13.00	-29.87	V

GPRS1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3700.47	-34.73	12.60	12.93	-35.06	-13.00	-22.06	H
5550.21	-34.79	13.10	17.11	-38.80	-13.00	-25.80	H
7400.67	-32.22	11.50	22.20	-42.92	-13.00	-29.92	H
3700.17	-35.93	12.60	12.93	-36.26	-13.00	-23.26	V
5550.35	-34.64	13.10	17.11	-38.65	-13.00	-25.65	V
7400.70	-32.26	11.50	22.20	-42.96	-13.00	-29.96	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3759.95	-34.56	12.60	12.93	-34.89	-13.00	-21.89	H
5640.17	-35.30	13.10	17.11	-39.31	-13.00	-26.31	H
7520.13	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3760.13	-34.54	12.60	12.93	-34.87	-13.00	-21.87	V
5639.86	-34.28	13.10	17.11	-38.29	-13.00	-25.29	V
7519.92	-32.03	11.50	22.20	-42.73	-13.00	-29.73	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3819.26	-33.80	12.60	12.93	-34.13	-13.00	-21.13	H
5729.30	-34.47	13.10	17.11	-38.48	-13.00	-25.48	H
7639.31	-33.55	11.50	22.20	-44.25	-13.00	-31.25	H
3819.55	-35.76	12.60	12.93	-36.09	-13.00	-23.09	V
5729.18	-34.31	13.10	17.11	-38.32	-13.00	-25.32	V
7639.29	-32.52	11.50	22.20	-43.22	-13.00	-30.22	V

EGPRS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3700.35	-33.68	12.60	12.93	-34.01	-13.00	-21.01	H
5550.37	-34.08	13.10	17.11	-38.09	-13.00	-25.09	H
7400.70	-33.61	11.50	22.20	-44.31	-13.00	-31.31	H
3700.07	-34.77	12.60	12.93	-35.10	-13.00	-22.10	V
5550.53	-34.08	13.10	17.11	-38.09	-13.00	-25.09	V
7400.61	-32.56	11.50	22.20	-43.26	-13.00	-30.26	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.10	-34.48	12.60	12.93	-34.81	-13.00	-21.81	H
5640.03	-34.49	13.10	17.11	-38.50	-13.00	-25.50	H
7519.89	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3760.19	-35.43	12.60	12.93	-35.76	-13.00	-22.76	V
5640.01	-35.08	13.10	17.11	-39.09	-13.00	-26.09	V
7520.14	-32.72	11.50	22.20	-43.42	-13.00	-30.42	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3819.71	-34.08	12.60	12.93	-34.41	-13.00	-21.41	H
5729.20	-34.84	13.10	17.11	-38.85	-13.00	-25.85	H
7639.10	-33.26	11.50	22.20	-43.96	-13.00	-30.96	H
3819.37	-35.76	12.60	12.93	-36.09	-13.00	-23.09	V
5729.50	-34.22	13.10	17.11	-38.23	-13.00	-25.23	V
7638.95	-31.80	11.50	22.20	-42.50	-13.00	-29.50	V

WCDMA Band 5: (30-9000)MHz							
The wost testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1652.50	-41.09	9.40	4.75	-36.44	-13.00	-23.44	H
2479.65	-39.48	10.60	8.39	-37.27	-13.00	-24.27	H
3305.65	-32.25	12.00	11.79	-32.04	-13.00	-19.04	H
1652.23	-44.59	9.40	4.75	-39.94	-13.00	-26.94	V
2479.51	-43.99	10.60	8.39	-41.78	-13.00	-28.78	V
3305.45	-43.61	12.00	11.79	-43.40	-13.00	-30.40	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1672.96	-40.98	9.40	4.75	-36.33	-13.00	-23.33	H
2509.42	-40.07	10.60	8.39	-37.86	-13.00	-24.86	H
3346.17	-32.20	12.00	11.79	-31.99	-13.00	-18.99	H
1673.20	-43.59	9.40	4.75	-38.94	-13.00	-25.94	V
2509.56	-44.49	10.60	8.39	-42.28	-13.00	-29.28	V
3346.25	-43.78	12.00	11.79	-43.57	-13.00	-30.57	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1693.46	-41.44	9.40	4.75	-36.79	-13.00	-23.79	H
2539.42	-40.36	10.60	8.39	-38.15	-13.00	-25.15	H
3386.17	-31.52	12.00	11.79	-31.31	-13.00	-18.31	H
1693.31	-43.84	9.40	4.75	-39.19	-13.00	-26.19	V
2539.07	-45.33	10.60	8.39	-43.12	-13.00	-30.12	V
3386.32	-42.60	12.00	11.79	-42.39	-13.00	-29.39	V

HSUPA Band 5: (30-9000)MHz							
The wost testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1652.23	-40.85	9.40	4.75	-36.20	-13.00	-23.20	H
2479.46	-40.43	10.60	8.39	-38.22	-13.00	-25.22	H
3305.66	-31.09	12.00	11.79	-30.88	-13.00	-17.88	H
1652.06	-43.32	9.40	4.75	-38.67	-13.00	-25.67	V
2479.38	-44.75	10.60	8.39	-42.54	-13.00	-29.54	V
3305.51	-43.07	12.00	11.79	-42.86	-13.00	-29.86	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.18	-41.00	9.40	4.75	-36.35	-13.00	-23.35	H
2509.64	-39.77	10.60	8.39	-37.56	-13.00	-24.56	H
3346.22	-31.92	12.00	11.79	-31.71	-13.00	-18.71	H
1673.12	-43.34	9.40	4.75	-38.69	-13.00	-25.69	V
2509.90	-44.52	10.60	8.39	-42.31	-13.00	-29.31	V
3346.34	-43.78	12.00	11.79	-43.57	-13.00	-30.57	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1693.60	-41.55	9.40	4.75	-36.90	-13.00	-23.90	H
2539.43	-39.29	10.60	8.39	-37.08	-13.00	-24.08	H
3386.30	-32.25	12.00	11.79	-32.04	-13.00	-19.04	H
1693.55	-43.41	9.40	4.75	-38.76	-13.00	-25.76	V
2539.41	-43.99	10.60	8.39	-41.78	-13.00	-28.78	V
3386.13	-42.71	12.00	11.79	-42.50	-13.00	-29.50	V

HSDPA Band 5: (30-9000)MHz							
The wost testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1652.12	-40.37	9.40	4.75	-35.72	-13.00	-22.72	H
2479.55	-39.21	10.60	8.39	-37.00	-13.00	-24.00	H
3305.76	-31.28	12.00	11.79	-31.07	-13.00	-18.07	H
1652.21	-44.64	9.40	4.75	-39.99	-13.00	-26.99	V
2479.30	-44.65	10.60	8.39	-42.44	-13.00	-29.44	V
3305.58	-43.45	12.00	11.79	-43.24	-13.00	-30.24	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.08	-41.18	9.40	4.75	-36.53	-13.00	-23.53	H
2509.43	-40.27	10.60	8.39	-38.06	-13.00	-25.06	H
3345.99	-31.52	12.00	11.79	-31.31	-13.00	-18.31	H
1673.16	-43.46	9.40	4.75	-38.81	-13.00	-25.81	V
2509.59	-44.68	10.60	8.39	-42.47	-13.00	-29.47	V
3346.15	-42.58	12.00	11.79	-42.37	-13.00	-29.37	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1693.45	-41.29	9.40	4.75	-36.64	-13.00	-23.64	H
2539.41	-40.45	10.60	8.39	-38.24	-13.00	-25.24	H
3386.19	-30.94	12.00	11.79	-30.73	-13.00	-17.73	H
1693.39	-43.78	9.40	4.75	-39.13	-13.00	-26.13	V
2539.16	-45.40	10.60	8.39	-43.19	-13.00	-30.19	V
3386.02	-43.37	12.00	11.79	-43.16	-13.00	-30.16	V

WCDMA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3704.09	-34.03	12.60	12.93	-34.36	-13.00	-21.36	H
5557.32	-34.36	13.10	17.11	-38.37	-13.00	-25.37	H
7409.85	-33.51	11.50	22.20	-44.21	-13.00	-31.21	H
3704.41	-35.83	12.60	12.93	-36.16	-13.00	-23.16	V
5557.22	-34.13	13.10	17.11	-38.14	-13.00	-25.14	V
7409.89	-32.34	11.50	22.20	-43.04	-13.00	-30.04	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.11	-33.54	12.60	12.93	-33.87	-13.00	-20.87	H
5640.28	-34.28	13.10	17.11	-38.29	-13.00	-25.29	H
7520.11	-32.49	11.50	22.20	-43.19	-13.00	-30.19	H
3760.04	-35.66	12.60	12.93	-35.99	-13.00	-22.99	V
5640.02	-34.54	13.10	17.11	-38.55	-13.00	-25.55	V
7519.99	-32.77	11.50	22.20	-43.47	-13.00	-30.47	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3815.49	-33.97	12.60	12.93	-34.30	-13.00	-21.30	H
5722.33	-34.83	13.10	17.11	-38.84	-13.00	-25.84	H
7630.32	-32.98	11.50	22.20	-43.68	-13.00	-30.68	H
3815.27	-35.18	12.60	12.93	-35.51	-13.00	-22.51	V
5722.39	-35.15	13.10	17.11	-39.16	-13.00	-26.16	V
7630.27	-31.85	11.50	22.20	-42.55	-13.00	-29.55	V

HSUPA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3704.18	-34.41	12.60	12.93	-34.74	-13.00	-21.74	H
5557.57	-34.52	13.10	17.11	-38.53	-13.00	-25.53	H
7409.76	-32.50	11.50	22.20	-43.20	-13.00	-30.20	H
3704.41	-35.61	12.60	12.93	-35.94	-13.00	-22.94	V
5557.27	-34.73	13.10	17.11	-38.74	-13.00	-25.74	V
7409.68	-32.94	11.50	22.20	-43.64	-13.00	-30.64	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.01	-33.50	12.60	12.93	-33.83	-13.00	-20.83	H
5639.94	-34.29	13.10	17.11	-38.30	-13.00	-25.30	H
7519.81	-32.60	11.50	22.20	-43.30	-13.00	-30.30	H
3759.86	-34.70	12.60	12.93	-35.03	-13.00	-22.03	V
5640.33	-35.10	13.10	17.11	-39.11	-13.00	-26.11	V
7520.25	-32.70	11.50	22.20	-43.40	-13.00	-30.40	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3815.47	-34.59	12.60	12.93	-34.92	-13.00	-21.92	H
5722.17	-34.92	13.10	17.11	-38.93	-13.00	-25.93	H
7630.19	-33.46	11.50	22.20	-44.16	-13.00	-31.16	H
3815.73	-35.28	12.60	12.93	-35.61	-13.00	-22.61	V
5722.25	-34.01	13.10	17.11	-38.02	-13.00	-25.02	V
7629.90	-32.53	11.50	22.20	-43.23	-13.00	-30.23	V

HSDPA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3704.20	-33.67	12.60	12.93	-34.00	-13.00	-21.00	H
5557.62	-35.45	13.10	17.11	-39.46	-13.00	-26.46	H
7409.66	-33.06	11.50	22.20	-43.76	-13.00	-30.76	H
3704.41	-35.09	12.60	12.93	-35.42	-13.00	-22.42	V
5557.40	-34.60	13.10	17.11	-38.61	-13.00	-25.61	V
7409.70	-32.77	11.50	22.20	-43.47	-13.00	-30.47	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.02	-34.77	12.60	12.93	-35.10	-13.00	-22.10	H
5640.07	-34.51	13.10	17.11	-38.52	-13.00	-25.52	H
7520.05	-33.65	11.50	22.20	-44.35	-13.00	-31.35	H
3760.03	-35.29	12.60	12.93	-35.62	-13.00	-22.62	V
5640.00	-34.66	13.10	17.11	-38.67	-13.00	-25.67	V
7519.85	-32.43	11.50	22.20	-43.13	-13.00	-30.13	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3815.66	-34.54	12.60	12.93	-34.87	-13.00	-21.87	H
5722.17	-34.90	13.10	17.11	-38.91	-13.00	-25.91	H
7630.19	-32.92	11.50	22.20	-43.62	-13.00	-30.62	H
3815.50	-35.06	12.60	12.93	-35.39	-13.00	-22.39	V
5722.14	-33.88	13.10	17.11	-37.89	-13.00	-24.89	V
7630.17	-32.28	11.50	22.20	-42.98	-13.00	-29.98	V

WCDMA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3424.92	-33.55	12.90	12.05	-32.70	-13.00	-19.70	H
5137.65	-35.46	12.80	16.27	-38.93	-13.00	-25.93	H
6850.35	-33.50	12.30	20.13	-41.33	-13.00	-28.33	H
3424.92	-35.86	12.90	12.05	-35.01	-13.00	-22.01	V
5137.58	-35.23	12.80	16.27	-38.70	-13.00	-25.70	V
6850.19	-32.78	12.30	20.13	-40.61	-13.00	-27.61	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3479.86	-33.96	12.90	12.05	-33.11	-13.00	-20.11	H
5219.82	-34.04	12.80	16.27	-37.51	-13.00	-24.51	H
6959.88	-32.31	12.30	20.13	-40.14	-13.00	-27.14	H
3479.85	-34.65	12.90	12.05	-33.80	-13.00	-20.80	V
5219.50	-34.80	12.80	16.27	-38.27	-13.00	-25.27	V
6959.53	-32.52	12.30	20.13	-40.35	-13.00	-27.35	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3504.47	-33.74	12.90	12.05	-32.89	-13.00	-19.89	H
5256.85	-35.10	12.80	16.27	-38.57	-13.00	-25.57	H
7009.40	-32.40	12.30	20.13	-40.23	-13.00	-27.23	H
3504.56	-35.70	12.90	12.05	-34.85	-13.00	-21.85	V
5256.74	-34.98	12.80	16.27	-38.45	-13.00	-25.45	V
7009.43	-31.95	12.30	20.13	-39.78	-13.00	-26.78	V

HSUPA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3424.72	-34.12	12.90	12.05	-33.27	-13.00	-20.27	H
5137.78	-35.13	12.80	16.27	-38.60	-13.00	-25.60	H
6849.92	-33.07	12.30	20.13	-40.90	-13.00	-27.90	H
3424.82	-34.96	12.90	12.05	-34.11	-13.00	-21.11	V
5137.57	-34.69	12.80	16.27	-38.16	-13.00	-25.16	V
6850.37	-32.30	12.30	20.13	-40.13	-13.00	-27.13	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3479.73	-33.95	12.90	12.05	-33.10	-13.00	-20.10	H
5219.62	-35.13	12.80	16.27	-38.60	-13.00	-25.60	H
6959.69	-32.29	12.30	20.13	-40.12	-13.00	-27.12	H
3479.72	-34.79	12.90	12.05	-33.94	-13.00	-20.94	V
5219.86	-34.17	12.80	16.27	-37.64	-13.00	-24.64	V
6959.83	-32.54	12.30	20.13	-40.37	-13.00	-27.37	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3504.39	-34.52	12.90	12.05	-33.67	-13.00	-20.67	H
5256.99	-34.81	12.80	16.27	-38.28	-13.00	-25.28	H
7009.26	-33.46	12.30	20.13	-41.29	-13.00	-28.29	H
3504.65	-35.64	12.90	12.05	-34.79	-13.00	-21.79	V
5256.84	-34.12	12.80	16.27	-37.59	-13.00	-24.59	V
7009.57	-33.18	12.30	20.13	-41.01	-13.00	-28.01	V

HSDPA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3425.07	-34.13	12.90	12.05	-33.28	-13.00	-20.28	H
5137.68	-34.94	12.80	16.27	-38.41	-13.00	-25.41	H
6850.28	-32.58	12.30	20.13	-40.41	-13.00	-27.41	H
3425.16	-34.57	12.90	12.05	-33.72	-13.00	-20.72	V
5137.75	-34.43	12.80	16.27	-37.90	-13.00	-24.90	V
6850.24	-32.18	12.30	20.13	-40.01	-13.00	-27.01	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3479.61	-33.54	12.90	12.05	-32.69	-13.00	-19.69	H
5219.82	-35.05	12.80	16.27	-38.52	-13.00	-25.52	H
6959.87	-33.00	12.30	20.13	-40.83	-13.00	-27.83	H
3479.91	-35.69	12.90	12.05	-34.84	-13.00	-21.84	V
5219.73	-35.24	12.80	16.27	-38.71	-13.00	-25.71	V
6959.93	-32.37	12.30	20.13	-40.20	-13.00	-27.20	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3504.56	-34.65	12.90	12.05	-33.80	-13.00	-20.80	H
5257.19	-35.21	12.80	16.27	-38.68	-13.00	-25.68	H
7009.38	-32.33	12.30	20.13	-40.16	-13.00	-27.16	H
3504.75	-35.33	12.90	12.05	-34.48	-13.00	-21.48	V
5256.83	-34.00	12.80	16.27	-37.47	-13.00	-24.47	V
7009.34	-32.09	12.30	20.13	-39.92	-13.00	-26.92	V

APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※