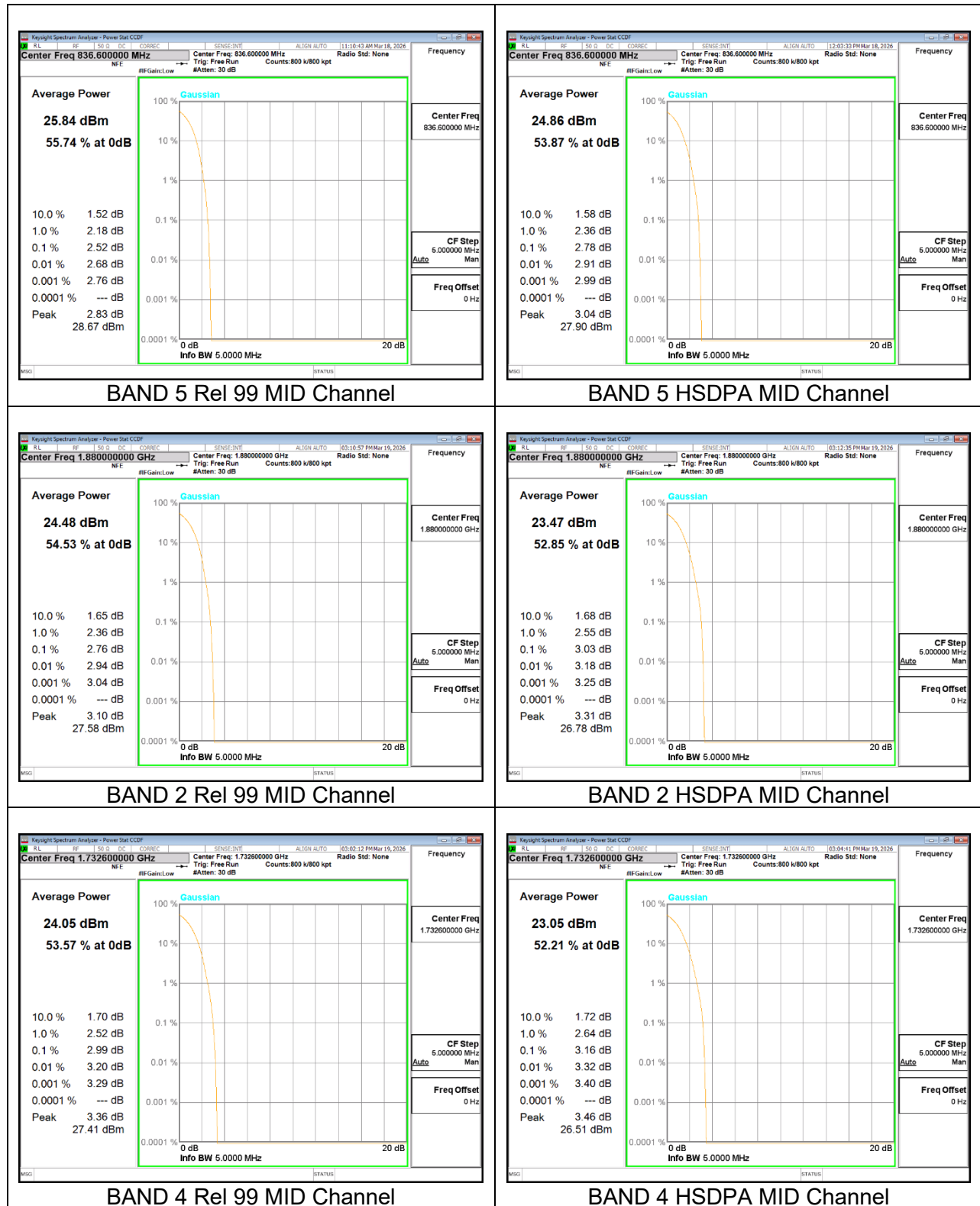


8.5.2. WCDMA



9. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, we measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement method.

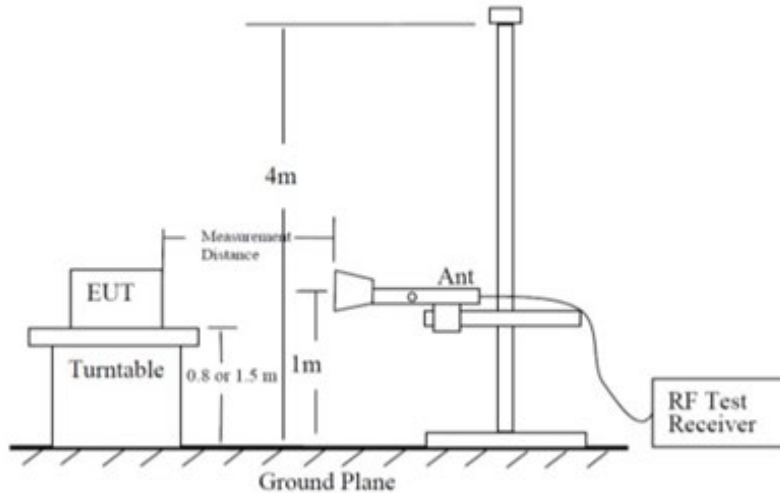


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8;$ where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8;$ where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

9.1. EFFECTIVE RADIATED POWER ERP/EIRP

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50

ISED: RSS132§5.4, RSS133§5.5 & SRSP-510, 5.1.2 RSS139§5.5

LIMITS

RSS132§5.4

22.913 (a)(5) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

RSS133§6.4 & SRSP-510 5.1.2

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

RSS139§5.5

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP.

RSS139§5.5

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI C63.26:2015

KDB 971168 D01 Section 5.2

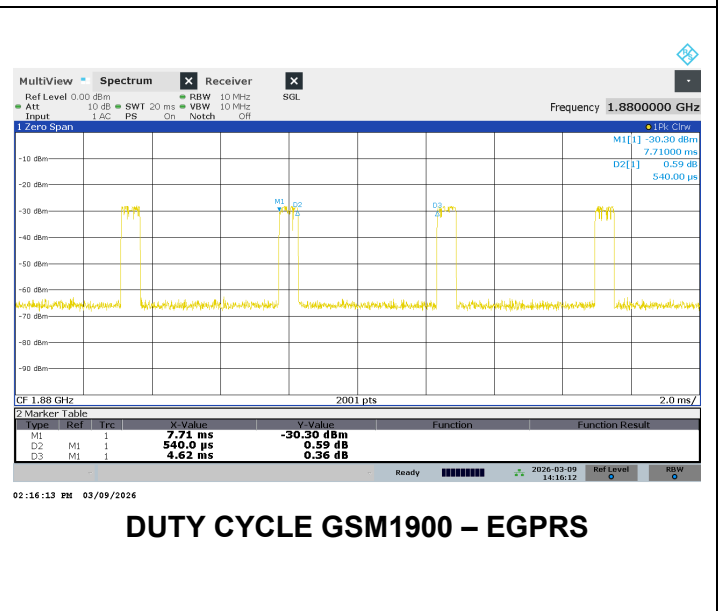
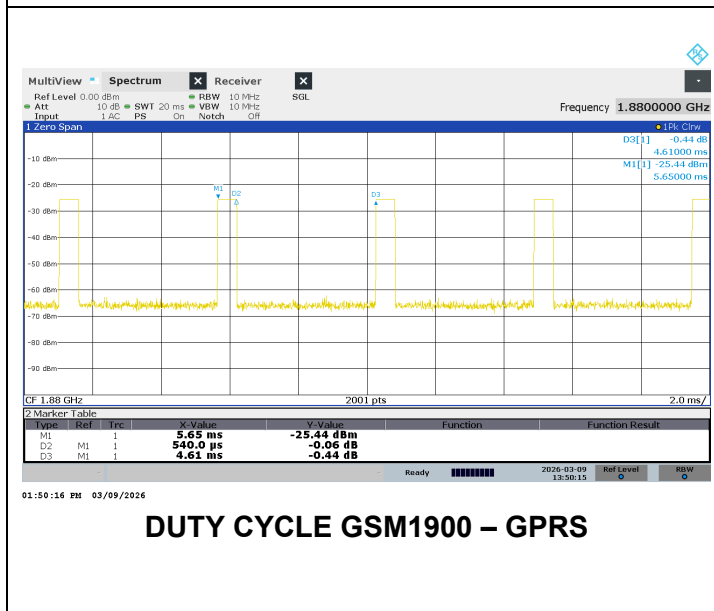
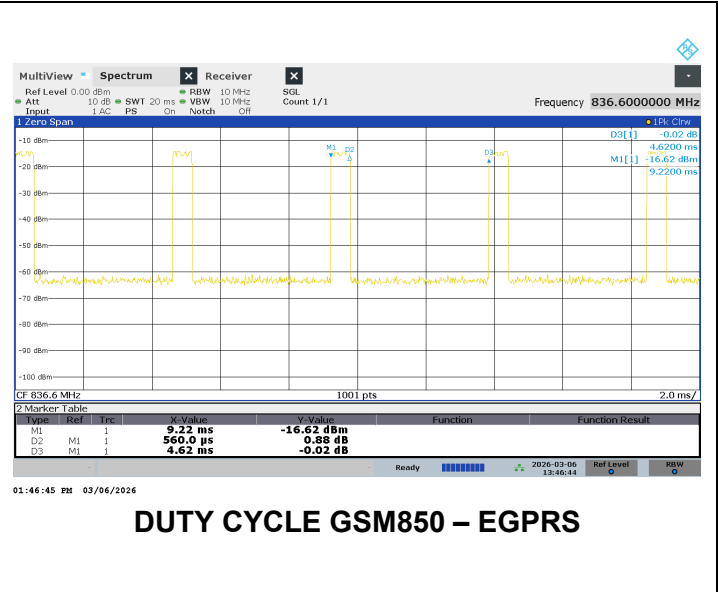
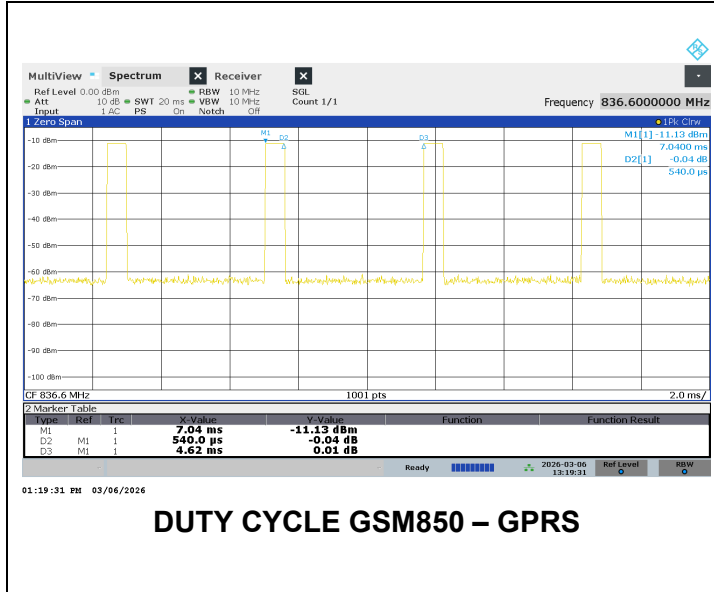
For average power measurements:

- a) Set span to at least 1.5 times the OBW;
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz;
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set number of points in sweep $\geq 2 \times$ span / RBW;
- e) Sweep time = auto-couple;
- f) Detector = RMS (power averaging);
- g) Use free run trigger If burst duty cycle ≥ 98 ;
- h) Add a duty cycle correction factor (10Log(DC) if burst duty cycle < 98 ;
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
Chain 0						
GSM850 - GPRS	0.540	4.620	0.117	11.69	9.32	1.852
GSM850 - EGPRS	0.560	4.620	0.121	12.12	9.16	1.786
GSM1900 - GPRS	0.540	4.610	0.117	11.71	9.31	1.852
GSM1900 - EGPRS	0.540	4.620	0.117	11.69	9.32	1.852



9.1.1. GSM GSM850

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
824.2	GSM850 (ANT A+C)	NA	GPRS	0.432	26.35	38.45	-12.10
836.6		NA	GPRS	0.598	27.77	38.45	-10.68
848.8		NA	GPRS	0.486	26.87	38.45	-11.58
824.2	EDGE 850 (ANT A+C)	NA	EGPRS	0.137	21.37	38.45	-17.08
836.6		NA	EGPRS	0.147	21.68	38.45	-16.77
848.8		NA	EGPRS	0.150	21.77	38.45	-16.68

CONFIG 0

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
824.2	GSM850 (ANT E)	NA	GPRS	0.451	26.54	38.45	-11.91
836.6		NA	GPRS	0.499	26.98	38.45	-11.47
848.8		NA	GPRS	0.495	26.95	38.45	-11.50
824.2	EDGE 850 (ANT E)	NA	EGPRS	0.097	19.89	38.45	-18.56
836.6		NA	EGPRS	0.133	21.25	38.45	-17.20
848.8		NA	EGPRS	0.112	20.50	38.45	-17.95

CONFIG 1

9.1.2. GSM GSM1900

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
1850.200	GSM1900	N/A	GPRS	0.391	25.92	33.01	-7.09
1880.000		N/A	GPRS	0.482	26.83	33.01	-6.18
1909.800		N/A	GPRS	0.524	27.19	33.01	-5.82
1850.200	GSM1900	N/A	EGPRS	0.075	18.77	33.01	-14.24
1880.000		N/A	EGPRS	0.112	20.51	33.01	-12.50
1909.800		N/A	EGPRS	0.138	21.40	33.01	-11.61

CONFIG 0

9.1.3. WCDMA BAND 5

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
826.4	WCDMA B5 (ANT A+C)	NA	Rel.99	0.121	20.81	38.45	-17.64
836.6		NA	Rel.99	0.098	19.93	38.45	-18.52
846.6		NA	Rel.99	0.097	19.86	38.45	-18.59

CONFIG 0

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
826.4	WCDMA B5 (ANT E)	NA	Rel.99	0.095	19.76	38.45	-18.69
836.6		NA	Rel.99	0.077	18.87	38.45	-19.58
846.6		NA	Rel.99	0.076	18.81	38.45	-19.64

CONFIG 1

9.1.4. WCDMA BAND 2

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
1852.400	WCDMA2 (ANT G)	N/A	Rel.99	0.091	19.60	33.01	-13.41
1880.000		N/A	Rel.99	0.104	20.19	33.01	-12.82
1907.600		N/A	Rel.99	0.146	21.65	33.01	-11.36

CONFIG 0

9.1.5. WCDMA BAND 4

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
1712.400	WCDMA4 (ANT G)	N/A	Rel.99	0.085	19.29	30.00	-10.71
1732.400		N/A	Rel.99	0.124	20.94	30.00	-9.06
1752.600		N/A	Rel.99	0.118	20.73	30.00	-9.27

CONFIG 0

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238 and §27.53
ISED: RSS132§5.5; RSS133§5.6 and RSS139§5.6

LIMITS

FCC: §22.917(a), §24.238(a), §27.53 (h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

RSS133§5.6

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment	
Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

Note: EBW used over OBW as worst-case

RSS139§5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group)	Unwanted emission limit
≤ 1 MHz	-13 dBm/(1% of OB*)
> 1 MHz	-13 dBm/MHz

*OB is the frequency block or frequency block group. Note: EBW used over OB as worst-case.

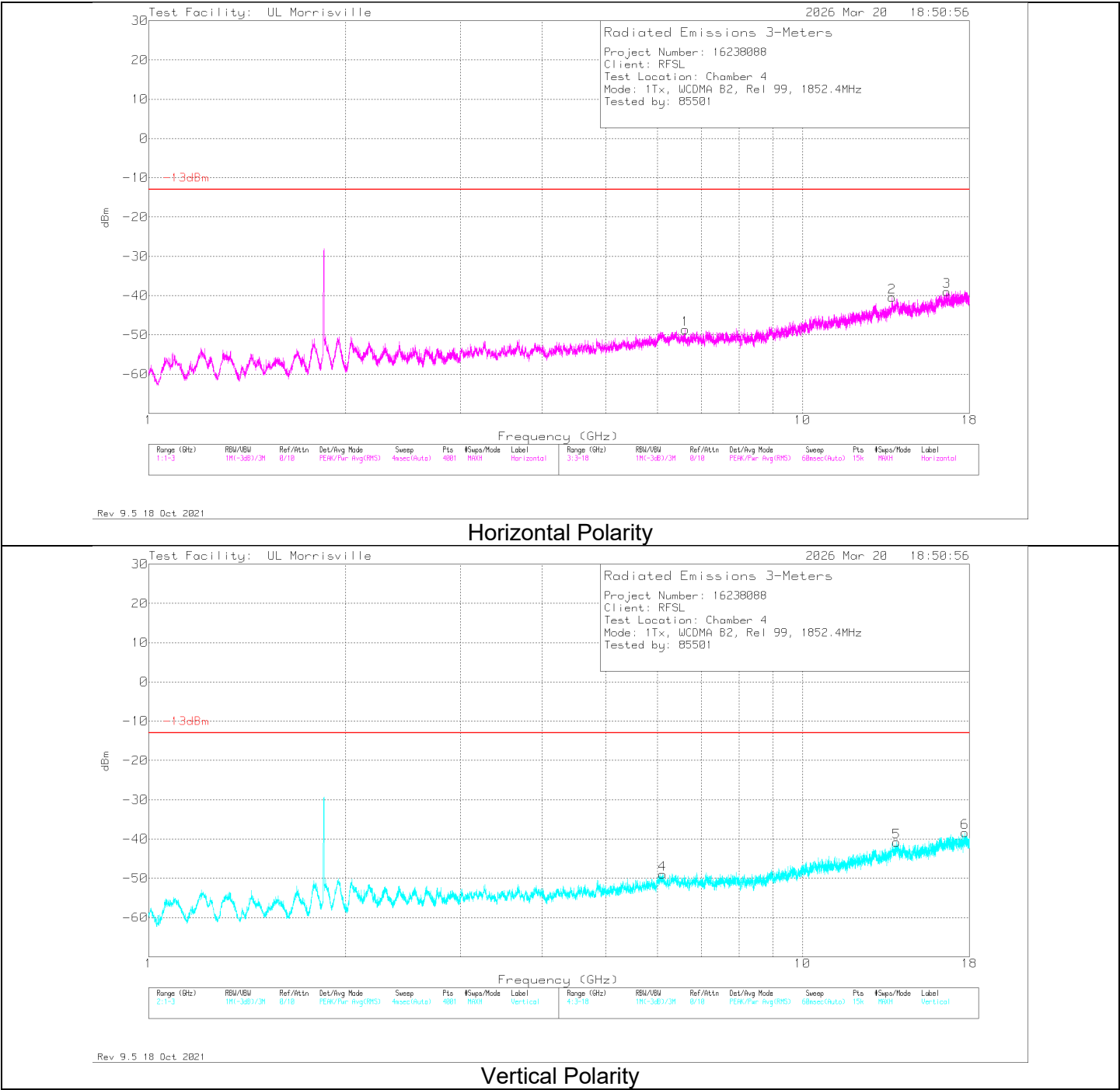
TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

RESULTS

Example Plot



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.109	-53.78	Pk	35.3	-42.3	11.8	0	-48.98	-13	-35.98	0-360	101	V
1	6.617	-52.84	Pk	35.4	-43	11.8	0	-48.64	-13	-35.64	0-360	101	H
2	13.717	-55.33	Pk	38.5	-35.4	11.8	0	-40.43	-13	-27.43	0-360	199	H
5	13.925	-56.29	Pk	38.6	-34.9	11.8	0	-40.79	-13	-27.79	0-360	300	V
3	16.63	-55.75	Pk	41.3	-36.3	11.8	0	-38.95	-13	-25.95	0-360	101	H
6	17.712	-56.32	Pk	41	-34.8	11.8	0	-38.32	-13	-25.32	0-360	300	V

Pk - Peak detector

9.2.1. GSM GSM850

CONFIG 0

GPRS - Slot 1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz										
2.0485	-62.03	Pk	31.7	-35.7	.5	11.8	-53.73	-13	-40.73	H
2.2132	-61.43	Pk	31.4	-35.4	.4	11.8	-53.23	-13	-40.23	V
4.5928	-64.58	Pk	34.2	-31.5	.2	11.8	-49.88	-13	-36.88	H
6.4045	-66.73	Pk	35.4	-28.3	.3	11.8	-47.53	-13	-34.53	V
9.5878	-67.05	Pk	36.6	-24.5	.6	11.8	-42.55	-13	-29.55	V
9.6733	-66.26	Pk	36.6	-24.6	.5	11.8	-41.96	-13	-28.96	H
Mid Channel, 836.6MHz										
2.2789	-61.62	Pk	31.8	-35.6	.5	11.8	-53.12	-13	-40.12	H
2.5327	-61.92	Pk	32.4	-35.6	.5	11.8	-52.82	-13	-39.82	V
4.6504	-64.87	Pk	34.2	-31.5	.3	11.8	-50.07	-13	-37.07	V
4.6828	-64.43	Pk	34.1	-31.3	.4	11.8	-49.43	-13	-36.43	H
9.3385	-66.41	Pk	36.4	-24.8	.4	11.8	-42.61	-13	-29.61	V
9.5338	-66.12	Pk	36.7	-25.3	.5	11.8	-42.42	-13	-29.42	H
High Channel, 848.8MHz										
1.6975	-59.62	Pk	29	-35.7	.5	11.8	-54.02	-13	-41.02	H
2.3014	-61.58	Pk	31.9	-35.6	.5	11.8	-52.98	-13	-39.98	V
4.6522	-64.35	Pk	34.2	-31.5	.3	11.8	-49.55	-13	-36.55	V
4.7818	-64.15	Pk	33.9	-31.3	.3	11.8	-49.45	-13	-36.45	H
9.5797	-65.71	Pk	36.6	-24.7	.6	11.8	-41.41	-13	-28.41	H
9.6814	-66.26	Pk	36.7	-24.5	.6	11.8	-41.66	-13	-28.66	V

Pk - Peak detector

EGPRS - Slot 1 Mode

Marker	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 836.6MHz										
2.5921	-60.99	Pk	32.2	-35.7	.4	11.8	-52.29	-13	-39.29	H
2.6821	-62.44	Pk	32.1	-35.1	.4	11.8	-53.24	-13	-40.24	V
4.5361	-64.36	Pk	33.9	-31.6	.3	11.8	-49.96	-13	-36.96	V
4.6576	-64.45	Pk	34.2	-31.6	.3	11.8	-49.75	-13	-36.75	H
9.5365	-65.65	Pk	36.7	-25.2	.5	11.8	-41.85	-13	-28.85	H
9.5626	-66.65	Pk	36.7	-24.8	.6	11.8	-42.35	-13	-29.35	V

Pk - Peak detector

CONFIG 1

GPRS - Slot 1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz										
1.648	-56.78	Pk	28.9	-35.6	.5	11.8	-51.18	-13	-38.18	H
1.648	-62.66	Pk	28.9	-35.6	.5	11.8	-57.06	-13	-44.06	V
2.4724	-55.53	Pk	32.2	-35.4	.4	11.8	-46.53	-13	-33.53	H
2.4724	-59.55	Pk	32.2	-35.4	.4	11.8	-50.55	-13	-37.55	V
8.9623	-65.45	Pk	36	-25.1	.4	11.8	-42.35	-13	-29.35	V
9.1378	-65.7	Pk	36.2	-25	.4	11.8	-42.3	-13	-29.3	H
Mid Channel, 836.6MHz										
2.5093	-60.84	Pk	32.4	-35.7	.4	11.8	-51.94	-13	-38.94	H
2.5093	-60.38	Pk	32.4	-35.7	.4	11.8	-51.48	-13	-38.48	V
6.7366	-66.65	Pk	35.5	-27.8	.5	11.8	-46.65	-13	-33.65	V
7.0525	-67.04	Pk	35.5	-27.4	.6	11.8	-46.54	-13	-33.54	H
9.6148	-66.2	Pk	36.6	-24.9	.5	11.8	-42.2	-13	-29.2	H
9.6706	-66.52	Pk	36.6	-24.7	.5	11.8	-42.32	-13	-29.32	V
High Channel, 848.8MHz										
2.5462	-54.98	Pk	32.4	-35.7	.5	11.8	-45.98	-13	-32.98	H
2.5462	-59.45	Pk	32.4	-35.7	.5	11.8	-50.45	-13	-37.45	V
6.6817	-67.11	Pk	35.5	-27.8	.5	11.8	-47.11	-13	-34.11	H
6.8212	-66.73	Pk	35.4	-27.8	.5	11.8	-46.83	-13	-33.83	V
9.5437	-66.4	Pk	36.7	-24.8	.5	11.8	-42.2	-13	-29.2	V
9.8884	-65.73	Pk	37	-24.9	.5	11.8	-41.33	-13	-28.33	H

Pk - Peak detector

EGPRS - Slot 1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 836.6MHz										
3.1267	-61.92	Pk	32.9	-34.8	.4	11.8	-51.62	-13	-38.62	H
3.5731	-62.8	Pk	32.8	-33.9	.4	11.8	-51.7	-13	-38.7	V
4.5919	-63.93	Pk	34.2	-31.5	.2	11.8	-49.23	-13	-36.23	H
5.9473	-66.07	Pk	35.1	-29.5	.3	11.8	-48.37	-13	-35.37	V
8.9425	-65.72	Pk	36	-25	.3	11.8	-42.62	-13	-29.62	H
9.0352	-65.92	Pk	36	-24.5	.4	11.8	-42.22	-13	-29.22	V

Pk - Peak detector

9.2.2. GSM GSM1900

CONFIG 0

GPRS - Slot 1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz										
2.6385	-62.49	Pk	32.3	-35.5	11.8	.5	-53.39	-13	-40.39	V
2.775	-62.06	Pk	32.3	-35.2	11.8	.4	-52.76	-13	-39.76	H
9.034	-66.36	Pk	36	-23.3	11.8	0	-41.86	-13	-28.86	H
9.073	-65.64	Pk	36	-23.5	11.8	0	-41.34	-13	-28.34	V
17.562	-67.2	Pk	41.1	-15.8	11.8	0	-30.1	-13	-17.1	H
17.602	-66.77	Pk	41.2	-16.1	11.8	0	-29.87	-13	-16.87	V
Mid Channel, 1880MHz										
2.7315	-62	Pk	31.7	-35.1	11.8	.4	-53.2	-13	-40.2	V
2.8455	-62.66	Pk	32.3	-34.8	11.8	.4	-52.96	-13	-39.96	H
9.054	-66.08	Pk	36	-23.2	11.8	0	-41.48	-13	-28.48	H
9.06	-66.8	Pk	36	-23.3	11.8	0	-42.3	-13	-29.3	V
17.522	-65.85	Pk	41	-16.4	11.8	0	-29.45	-13	-16.45	V
17.576	-66.75	Pk	41.2	-15.3	11.8	0	-29.05	-13	-16.05	H
High Channel, 1909.8MHz										
2.7775	-61.92	Pk	32.3	-35.2	11.8	.4	-52.62	-13	-39.62	H
2.953	-62.79	Pk	32.6	-34.8	11.8	.5	-52.69	-13	-39.69	V
9.045	-66.05	Pk	36	-23.3	11.8	0	-41.55	-13	-28.55	V
9.065	-65.46	Pk	36	-23.5	11.8	0	-41.16	-13	-28.16	H
17.574	-67.15	Pk	41.1	-15.3	11.8	0	-29.55	-13	-16.55	H
17.944	-66.64	Pk	41.1	-15.8	11.8	0	-29.54	-13	-16.54	V

Pk - Peak detector

EGPRS - Slot 1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 1880MHz										
2.7755	-62.31	Pk	32.3	-35.2	11.8	.4	-53.01	-13	-40.01	V
2.888	-61.95	Pk	32.3	-34.9	11.8	.3	-52.45	-13	-39.45	H
9.015	-65.96	Pk	36	-23.9	11.8	0	-42.06	-13	-29.06	H
9.031	-65.56	Pk	36	-23.4	11.8	0	-41.16	-13	-28.16	V
17.245	-66.37	Pk	41	-16.5	11.8	0	-30.07	-13	-17.07	H
17.614	-66.61	Pk	41.2	-16.2	11.8	0	-29.81	-13	-16.81	V

Pk - Peak detector

9.2.3. WCDMA BAND 5

CONFIG 0

Rel 99.1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 826.4MHz										
2.53	-61.35	Pk	32.4	-35.6	.5	11.8	-52.25	-13	-39.25	H
2.575	-62.32	Pk	32.4	-35.6	.4	11.8	-53.32	-13	-40.32	V
6.5485	-66.63	Pk	35.5	-28.3	.4	11.8	-47.23	-13	-34.23	H
6.6961	-66.86	Pk	35.5	-27.6	.5	11.8	-46.66	-13	-33.66	V
8.9911	-65.67	Pk	36	-24.8	.4	11.8	-42.27	-13	-29.27	V
9.6958	-66.41	Pk	36.7	-24.7	.6	11.8	-42.01	-13	-29.01	H
Mid Channel, 836.6MHz										
2.5822	-61.71	Pk	32.3	-35.7	.4	11.8	-52.91	-13	-39.91	H
2.8531	-62.04	Pk	32.3	-35.1	.3	11.8	-52.74	-13	-39.74	V
6.2263	-66.94	Pk	35.3	-28.6	.4	11.8	-48.04	-13	-35.04	H
6.328	-66.94	Pk	35.4	-28.8	.3	11.8	-48.24	-13	-35.24	V
9.5815	-66.58	Pk	36.6	-24.7	.6	11.8	-42.28	-13	-29.28	V
9.6778	-67.14	Pk	36.7	-24.5	.6	11.8	-42.54	-13	-29.54	H
High Channel, 846.6MHz										
2.4724	-61.83	Pk	32.2	-35.4	.4	11.8	-52.83	-13	-39.83	H
2.8945	-62.62	Pk	32.3	-35	.5	11.8	-53.02	-13	-40.02	V
4.5775	-65.65	Pk	34.1	-31.1	.2	11.8	-50.65	-13	-37.65	V
4.5811	-64.81	Pk	34.1	-31.2	.2	11.8	-49.91	-13	-36.91	H
9.5968	-66.63	Pk	36.6	-24.7	.5	11.8	-42.43	-13	-29.43	H
9.6859	-67.09	Pk	36.7	-24.4	.6	11.8	-42.39	-13	-29.39	V

Pk - Peak detector

HSDPA.1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 836.6MHz										
2.9386	-61.54	Pk	32.5	-35	.4	11.8	-51.84	-13	-38.84	H
2.9827	-62.77	Pk	32.6	-35	.3	11.8	-53.07	-13	-40.07	V
5.8033	-64.9	Pk	34.6	-29.8	.3	11.8	-48	-13	-35	H
5.8168	-66.75	Pk	34.7	-29.5	.3	11.8	-49.45	-13	-36.45	V
9.0298	-65.8	Pk	36	-24.6	.4	11.8	-42.2	-13	-29.2	V
9.208	-65.06	Pk	36.3	-25.3	.3	11.8	-41.96	-13	-28.96	H

Pk - Peak detector

CONFIG 1

Rel 99.1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 826.4MHz										
2.476	-57.86	Pk	32.3	-35.5	.4	11.8	-48.86	-13	-35.86	H
2.4823	-60.94	Pk	32.3	-35.6	.4	11.8	-52.04	-13	-39.04	V
7.1668	-66.83	Pk	35.5	-27.5	.5	11.8	-46.53	-13	-33.53	H
7.8067	-66.55	Pk	35.7	-27.1	.5	11.8	-45.65	-13	-32.65	V
9.0199	-65.45	Pk	36	-24.7	.4	11.8	-41.95	-13	-28.95	H
9.1594	-66.17	Pk	36.2	-25.1	.5	11.8	-42.77	-13	-29.77	V
2.476	-57.86	Pk	32.3	-35.5	.4	11.8	-48.86	-13	-35.86	H
Mid Channel, 836.6MHz										
2.512	-61.54	Pk	32.4	-35.7	.5	11.8	-52.54	-13	-39.54	H
3.898	-63.2	Pk	33.4	-32.8	.2	11.8	-50.6	-13	-37.6	V
5.2516	-64.49	Pk	34.3	-31	.3	11.8	-49.09	-13	-36.09	H
6.9859	-66.74	Pk	35.4	-27.8	.5	11.8	-46.84	-13	-33.84	V
9.5914	-66.37	Pk	36.6	-24.6	.5	11.8	-42.07	-13	-29.07	V
9.5932	-65.95	Pk	36.6	-24.6	.5	11.8	-41.65	-13	-28.65	H
High Channel, 846.6MHz										
2.5354	-61.73	Pk	32.5	-35.5	.5	11.8	-52.43	-13	-39.43	H
2.9242	-61.89	Pk	32.5	-35.1	.3	11.8	-52.39	-13	-39.39	V
6.9004	-66.62	Pk	35.5	-27.7	.5	11.8	-46.52	-13	-33.52	H
6.931	-67.01	Pk	35.5	-27.5	.5	11.8	-46.71	-13	-33.71	V
9.5428	-66.28	Pk	36.7	-24.9	.5	11.8	-42.18	-13	-29.18	V
9.9271	-66.32	Pk	37	-24.9	.6	11.8	-41.82	-13	-28.82	H

Pk - Peak detector

HSDPA.1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 836.6MHz										
1.8091	-61.97	Pk	30	-35.4	.4	11.8	-55.17	-13	-42.17	H
2.6218	-61.86	Pk	32.2	-35.2	.4	11.8	-52.66	-13	-39.66	V
3.7486	-62.77	Pk	33.2	-33.2	.2	11.8	-50.77	-13	-37.77	H
4.9312	-64.46	Pk	33.8	-31.2	.3	11.8	-49.76	-13	-36.76	V
9.5887	-66.12	Pk	36.6	-24.5	.6	11.8	-41.62	-13	-28.62	V
9.6904	-66.3	Pk	36.7	-24.5	.6	11.8	-41.7	-13	-28.7	H

Pk - Peak detector

9.2.4. WCDMA BAND 2

CONFIG 0

Rel 99.1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz										
6.109	-53.78	Pk	35.3	-42.3	11.8	0	-48.98	-13	-35.98	V
6.617	-52.84	Pk	35.4	-43	11.8	0	-48.64	-13	-35.64	H
13.717	-55.33	Pk	38.5	-35.4	11.8	0	-40.43	-13	-27.43	H
13.925	-56.29	Pk	38.6	-34.9	11.8	0	-40.79	-13	-27.79	V
16.63	-55.75	Pk	41.3	-36.3	11.8	0	-38.95	-13	-25.95	H
17.712	-56.32	Pk	41	-34.8	11.8	0	-38.32	-13	-25.32	V
Mid Channel, 1880MHz										
9.153	-53.69	Pk	36.2	-40.8	11.8	0	-46.49	-13	-33.49	V
9.566	-54.35	Pk	36.7	-40.8	11.8	0	-46.65	-13	-33.65	H
13.928	-56.92	Pk	38.6	-34.6	11.8	0	-41.12	-13	-28.12	H
14.293	-55.3	Pk	39.1	-36.7	11.8	0	-41.1	-13	-28.1	V
16.724	-55.73	Pk	41.4	-36.3	11.8	0	-38.83	-13	-25.83	V
17.537	-56.17	Pk	41	-35.2	11.8	0	-38.57	-13	-25.57	H
High Channel, 1907.6MHz										
6.059	-53.95	Pk	35.4	-41.7	11.8	0	-48.45	-13	-35.45	V
6.06	-54.27	Pk	35.4	-41.6	11.8	0	-48.67	-13	-35.67	H
13.927	-55.79	Pk	38.6	-34.7	11.8	0	-40.09	-13	-27.09	V
14.869	-55.29	Pk	39.7	-36.6	11.8	0	-40.39	-13	-27.39	H
17.317	-56.9	Pk	41.1	-35.3	11.8	0	-39.3	-13	-26.3	H
17.696	-54.91	Pk	41	-36.4	11.8	0	-38.51	-13	-25.51	V

Pk - Peak detector

HSDPA.1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 1880MHz										
6.061	-54.86	Pk	35.4	-41.5	11.8	0	-49.16	-13	-36.16	H
6.299	-54.06	Pk	35.7	-42.4	11.8	0	-48.96	-13	-35.96	V
11.191	-54.91	Pk	38.1	-39	11.8	0	-44.01	-13	-31.01	V
13.931	-56.73	Pk	38.6	-35	11.8	0	-41.33	-13	-28.33	H
16.258	-56.19	Pk	40.8	-35.7	11.8	0	-39.29	-13	-26.29	H
16.652	-55.94	Pk	41.3	-36.4	11.8	0	-39.24	-13	-26.24	V

Pk - Peak detector

9.2.5. WCDMA BAND 4

CONFIG 0

Rel 99.1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz										
2.1125	-45.37	Pk	31.4	-48	11.8	1.4	-48.77	-	-	H
2.113	-41.3	Pk	31.4	-48	11.8	1.4	-44.7	-	-	V
6.391	-53.96	Pk	35.6	-42.6	11.8	0	-49.16	-13	-36.16	H
7.202	-53.77	Pk	35.6	-42.3	11.8	0	-48.67	-13	-35.67	V
13.72	-55.58	Pk	38.5	-35.7	11.8	0	-40.98	-13	-27.98	V
14.25	-56.28	Pk	39.1	-36.2	11.8	0	-41.58	-13	-28.58	H
16.58	-54.78	Pk	41.2	-37.1	11.8	0	-38.88	-13	-25.88	H
17.71	-56.23	Pk	41	-35	11.8	0	-38.43	-13	-25.43	V
Mid Channel, 1732.6MHz										
2.1345	-44.34	Pk	31.5	-48.3	11.8	1.3	-48.04	-13	-35.04	H
2.1345	-38.07	Pk	31.5	-48.3	11.8	1.3	-41.77	-13	-28.77	V
6.06	-54.32	Pk	35.4	-41.6	11.8	0	-48.72	-13	-35.72	H
6.37	-53.41	Pk	35.6	-42.6	11.8	0	-48.61	-13	-35.61	V
13.925	-56.58	Pk	38.6	-34.9	11.8	0	-41.08	-13	-28.08	V
13.948	-56.17	Pk	38.6	-35.3	11.8	0	-41.07	-13	-28.07	H
17.149	-55.48	Pk	41.2	-36.3	11.8	0	-38.78	-13	-25.78	V
17.717	-56.59	Pk	41	-35	11.8	0	-38.79	-13	-25.79	H
High Channel, 1752.6MHz										
2.1515	-38.99	Pk	31.5	-47.9	11.8	1.2	-42.39	-13	-29.39	V
2.152	-44.41	Pk	31.5	-48	11.8	1.2	-47.91	-13	-34.91	H
6.409	-53.39	Pk	35.6	-42.7	11.8	0	-48.69	-13	-35.69	V
11.492	-55.63	Pk	38.2	-38.4	11.8	0	-44.03	-13	-31.03	H
13.924	-56.39	Pk	38.6	-35	11.8	0	-40.99	-13	-27.99	V
16.244	-55.7	Pk	40.8	-36	11.8	0	-39.1	-13	-26.1	V
16.725	-56.53	Pk	41.4	-36.3	11.8	0	-39.63	-13	-26.63	H
17.701	-55.27	Pk	41	-36	11.8	0	-38.47	-13	-25.47	H

Pk - Peak detector

HSDPA.1 Mode

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 1732.6MHz										
2.1325 (DL)	-32.11	Pk	31.5	-48.2	11.8	1.3	-35.71	-	-	H
2.133 (DL)	-23.68	Pk	31.5	-48.2	11.8	1.3	-27.28	-	-	V
6.067	-53.64	Pk	35.4	-41.8	11.8	0	-48.24	-13	-35.24	H
6.108	-53.23	Pk	35.3	-42.3	11.8	0	-48.43	-13	-35.43	V
13.715	-56.05	Pk	38.5	-35.2	11.8	0	-40.95	-13	-27.95	V
14.25	-56.04	Pk	39.1	-36.2	11.8	0	-41.34	-13	-28.34	H
17.139	-55.44	Pk	41.2	-36.2	11.8	0	-38.64	-13	-25.64	V
17.849	-55.76	Pk	40.9	-35.3	11.8	0	-38.36	-13	-25.36	H

Pk - Peak detector

10. SETUP PHOTOS

Please see R16238088-EP1 for Setup Diagrams and Setup Photos.

END OF REPORT