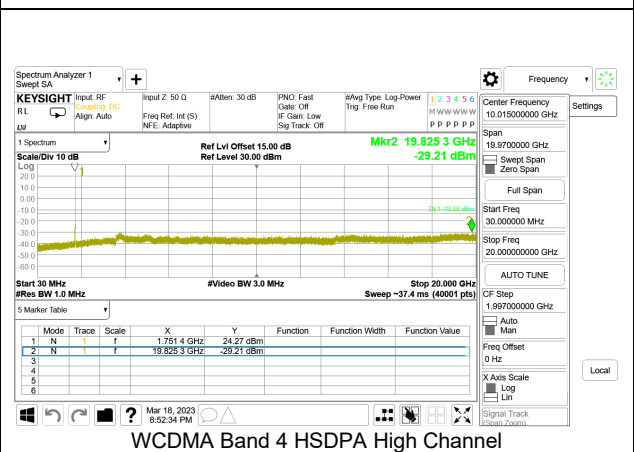
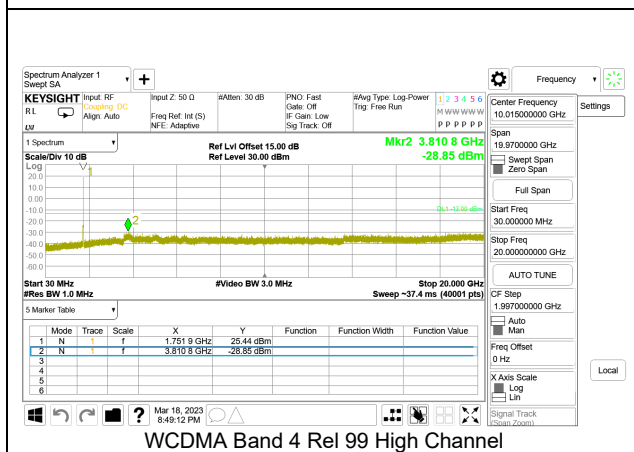
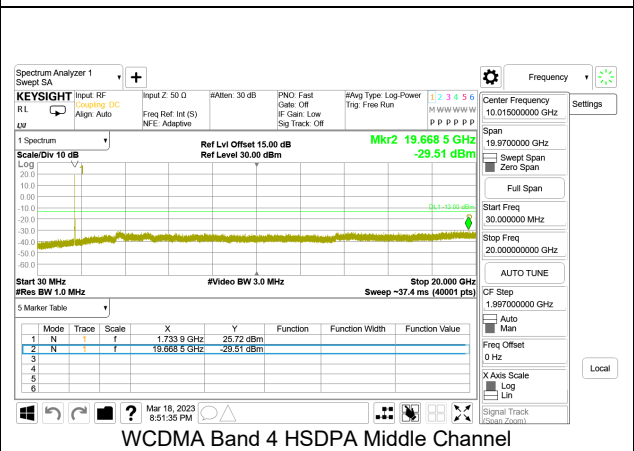
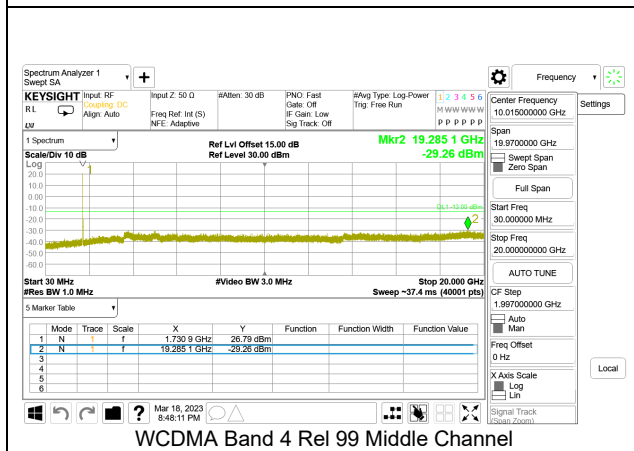
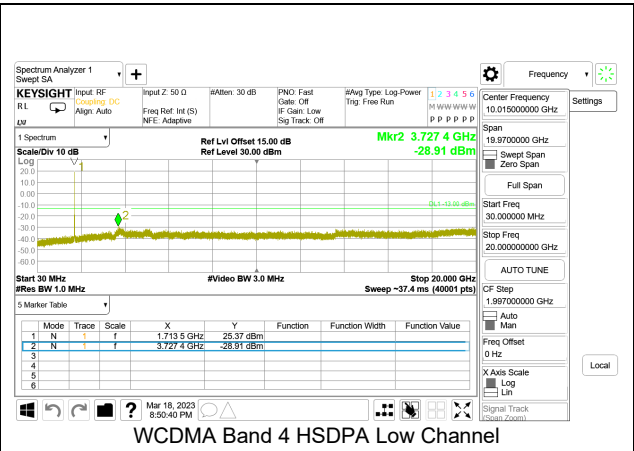
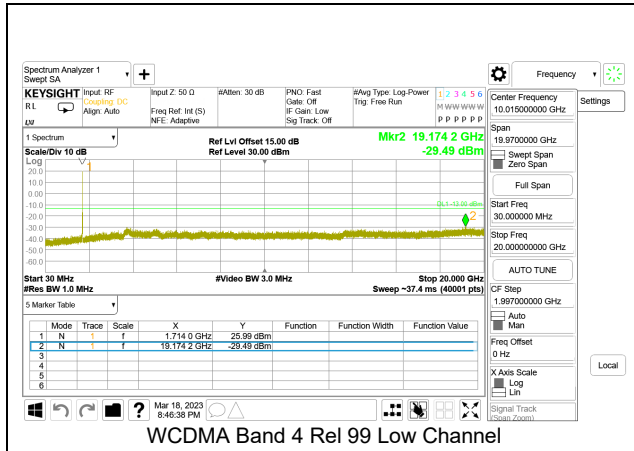


9.3.5. WCDMA BAND 4



9.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, and §27.54
ISED: RSS132§5.3; RSS133§6.3 and RSS139§5.4

LIMITS

FCC §22.355

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC §24.235 & §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

RSS132§5.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 SRSP for mobile stations and ± 1.5 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the occupied bandwidth stays within each of the sub-bands (see Section 5.1) when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS133§6.3

The carrier frequency shall not depart from the reference frequency, in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the emission bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS139§5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)
Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 2.95VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

9.4.1. GSM

Test Engineer ID:	32061	Test Date:	1/20/2023
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GPRS 850

Band	850	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Normal (20°C)	Normal	824.0419	8498.9595			
Extreme (50°C)		824.0419	8498.9595	10.3	0.012	Yes
Extreme (40°C)		824.0419	8498.9595	8.9	0.011	Yes
Extreme (30°C)		824.0419	8498.9595	7.3	0.009	Yes
Extreme (10°C)		824.0419	8498.9595	6.3	0.007	Yes
Extreme (0°C)		824.0419	8498.9595	11.6	0.014	Yes
Extreme (-10°C)		824.0419	8498.9595	8.8	0.011	Yes
Extreme (-20°C)		824.0419	8498.9595	9.0	0.011	Yes
Extreme (-30°C)		824.0419	8498.9595	10.3	0.012	Yes
20°C	15%	824.0419	8498.9595	-10.9	-0.013	Yes
	-15%	824.0419	8498.9595	-3.9	-0.005	Yes
	End Point Voltage	824.0419	8498.9595	4.5	0.005	Yes

GPRS 1900

Band	1900	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Normal (20°C)	Normal	1850.0394	1909.9591			
Extreme (50°C)		1850.0394	1909.9591	12.4	0.007	Yes
Extreme (40°C)		1850.0394	1909.9591	11.9	0.006	Yes
Extreme (30°C)		1850.0394	1909.9591	7.8	0.004	Yes
Extreme (10°C)		1850.0394	1909.9591	12.3	0.007	Yes
Extreme (0°C)		1850.0394	1909.9591	8.4	0.004	Yes
Extreme (-10°C)		1850.0394	1909.9591	10.8	0.006	Yes
Extreme (-20°C)		1850.0394	1909.9591	12.4	0.007	Yes
Extreme (-30°C)		1850.0394	1909.9591	11.7	0.006	Yes
20°C	15%	1850.0394	1909.9591	13.7	0.007	Yes
	-15%	1850.0394	1909.9591	13.9	0.007	Yes
	End Point Voltage	1850.0394	1909.9591	14.6	0.008	Yes

9.4.2. WCDMA

Test Engineer ID:	32061	Test Date:	3/16/2023
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WCDMA REL 99 BAND 5

Band	5	Frequency Range		Frequency Error Reading (Hz)	Limit	
		824	849		2.5	Within Authorized Frequency Block (Hz)
Condition		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)	Frequency Error Reading (Hz)	Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	824.0850	848.9175			
Extreme (50°C)		824.0850	848.9175	-3.0	-0.004	Yes
Extreme (40°C)		824.0850	848.9175	-3.1	-0.004	Yes
Extreme (30°C)		824.0850	848.9175	-2.6	-0.003	Yes
Extreme (10°C)		824.0850	848.9175	-1.8	-0.002	Yes
Extreme (0°C)		824.0850	848.9175	1.6	0.002	Yes
Extreme (-10°C)		824.0850	848.9175	2.0	0.002	Yes
Extreme (-20°C)		824.0850	848.9175	1.9	0.002	Yes
Extreme (-30°C)		824.0850	848.9175	1.8	0.002	Yes
20°C	15%	824.0850	848.9175	-2.2	-0.003	Yes
	-15%	824.0850	848.9175	-1.9	-0.002	Yes
	End Point Voltage	824.0850	848.9175	-1.9	-0.002	Yes

WCDMA REL 99 BAND 2

Test Engineer ID:	32061	Test Date:	3/16/2023
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Band		2		Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910	2.5	Within Authorized Frequency Block (Hz)			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)					
Normal (20°C)	Normal	1850.0750	1909.9250					
Extreme (50°C)		1850.0750	1909.9250	6.3	0.003	Yes		
Extreme (40°C)		1850.0750	1909.9250	5.7	0.003	Yes		
Extreme (30°C)		1850.0750	1909.9250	4.6	0.002	Yes		
Extreme (10°C)		1850.0750	1909.9250	3.4	0.002	Yes		
Extreme (0°C)		1850.0750	1909.9250	6.1	0.003	Yes		
Extreme (-10°C)		1850.0750	1909.9250	6.9	0.004	Yes		
Extreme (-20°C)		1850.0750	1909.9250	7.6	0.004	Yes		
Extreme (-30°C)		1850.0750	1909.9250	6.4	0.003	Yes		
20°C	15%	1850.0750	1909.9250	2.4	0.001	Yes		
	-15%	1850.0750	1909.9250	3.3	0.002	Yes		
	End Point Voltage	1850.0750	1909.9250	2.2	0.001	Yes		

WCDMA REL 99 BAND 4

Band	4	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1755		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Normal (20°C)	Normal	1710.0788	1754.9275			
Extreme (50°C)		1710.0787	1754.9275	-5.7	-0.003	Yes
Extreme (40°C)		1710.0787	1754.9275	-6.9	-0.004	Yes
Extreme (30°C)		1710.0787	1754.9275	-5.1	-0.003	Yes
Extreme (10°C)		1710.0787	1754.9275	-3.9	-0.002	Yes
Extreme (0°C)		1710.0787	1754.9275	-4.5	-0.003	Yes
Extreme (-10°C)		1710.0787	1754.9275	-3.0	-0.002	Yes
Extreme (-20°C)		1710.0787	1754.9275	-2.7	-0.002	Yes
Extreme (-30°C)		1710.0788	1754.9275	1.8	0.001	Yes
20°C		15%	1710.0787	1754.9275	-6.0	-0.003
	-15%	1710.0787	1754.9275	-6.5	-0.004	Yes
	End Point Voltage	1710.0787	1754.9275	-7.3	-0.004	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

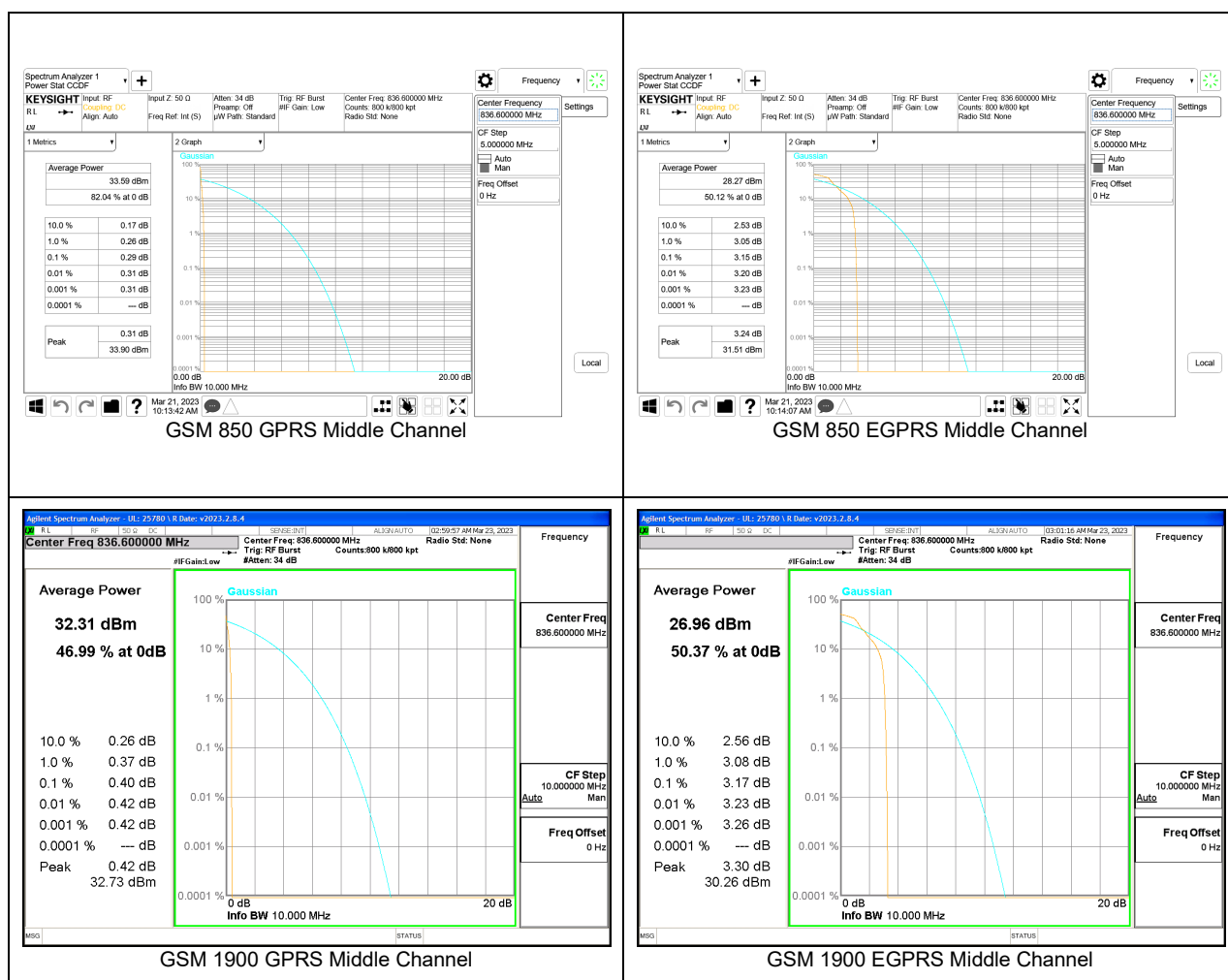
In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULT

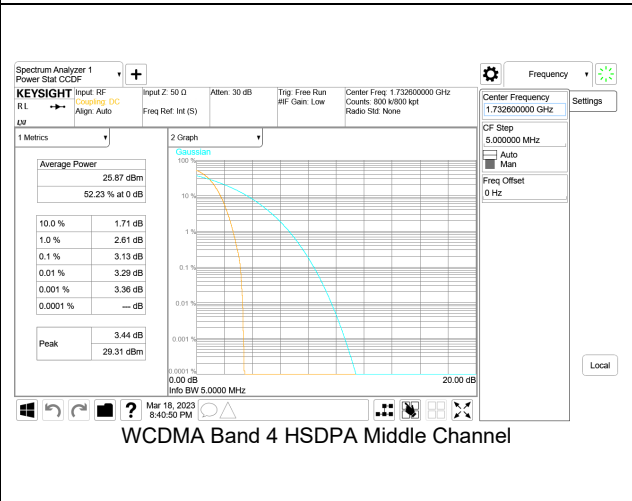
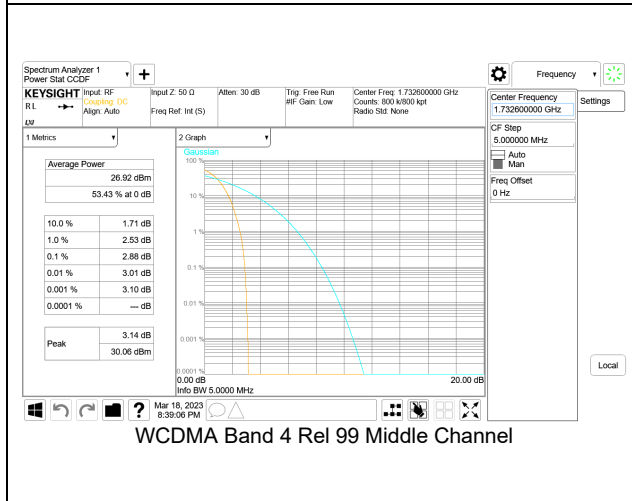
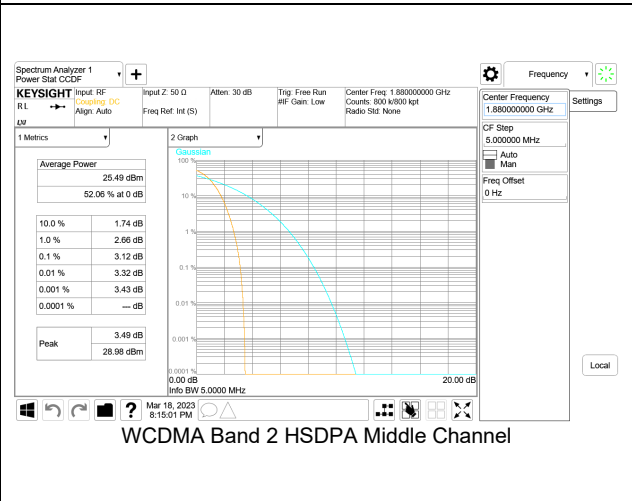
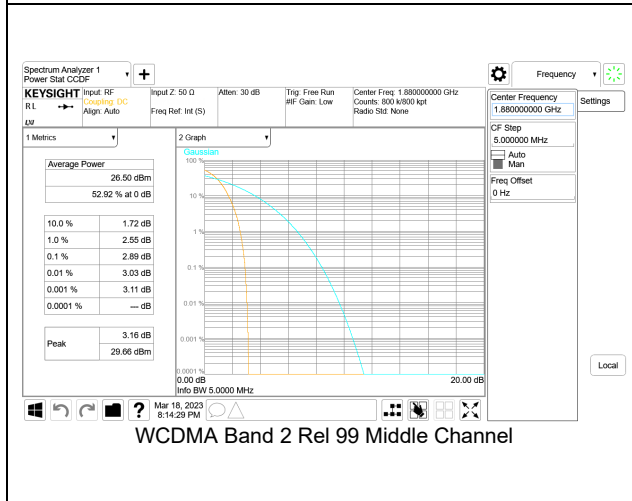
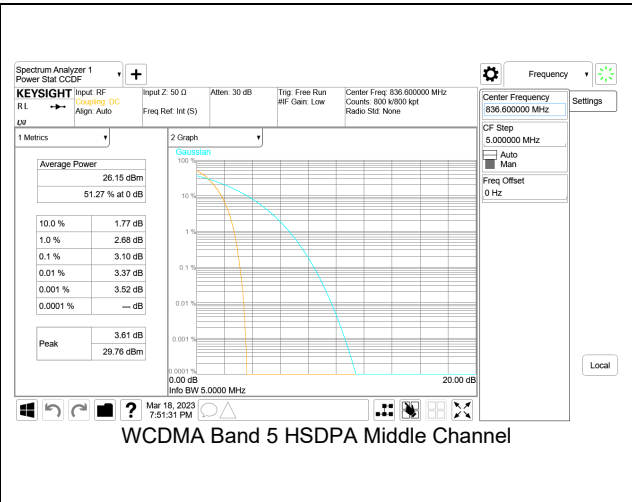
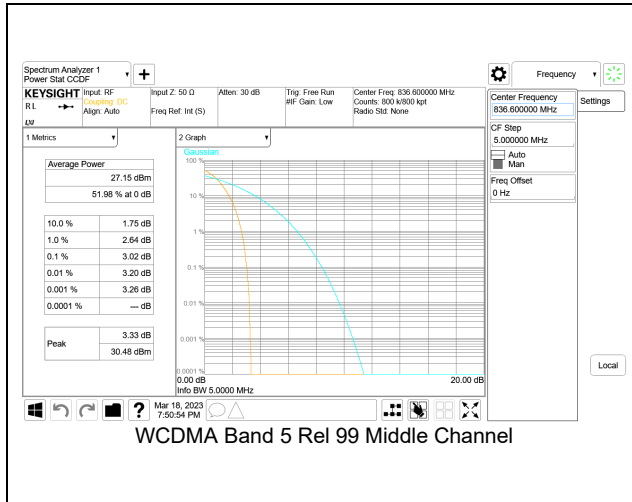
Ant 1 was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

Test Engineer ID:	25602	Test Date:	3/23/2022
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9.5.1. GSM



9.5.2. WCDMA



10. 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.

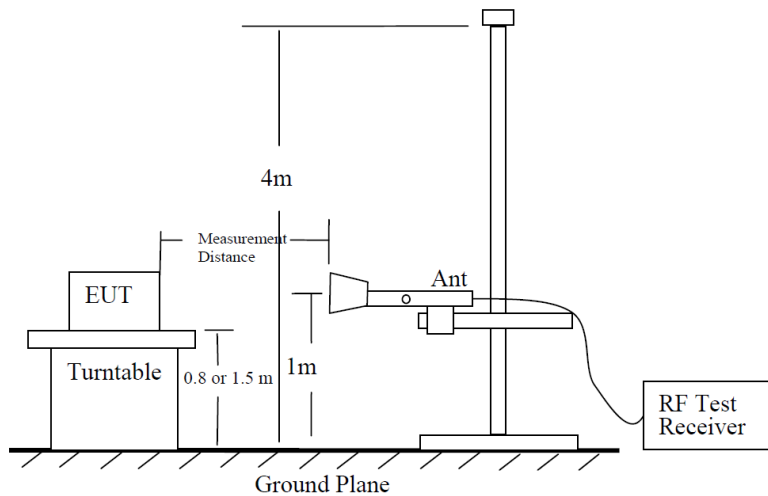


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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.

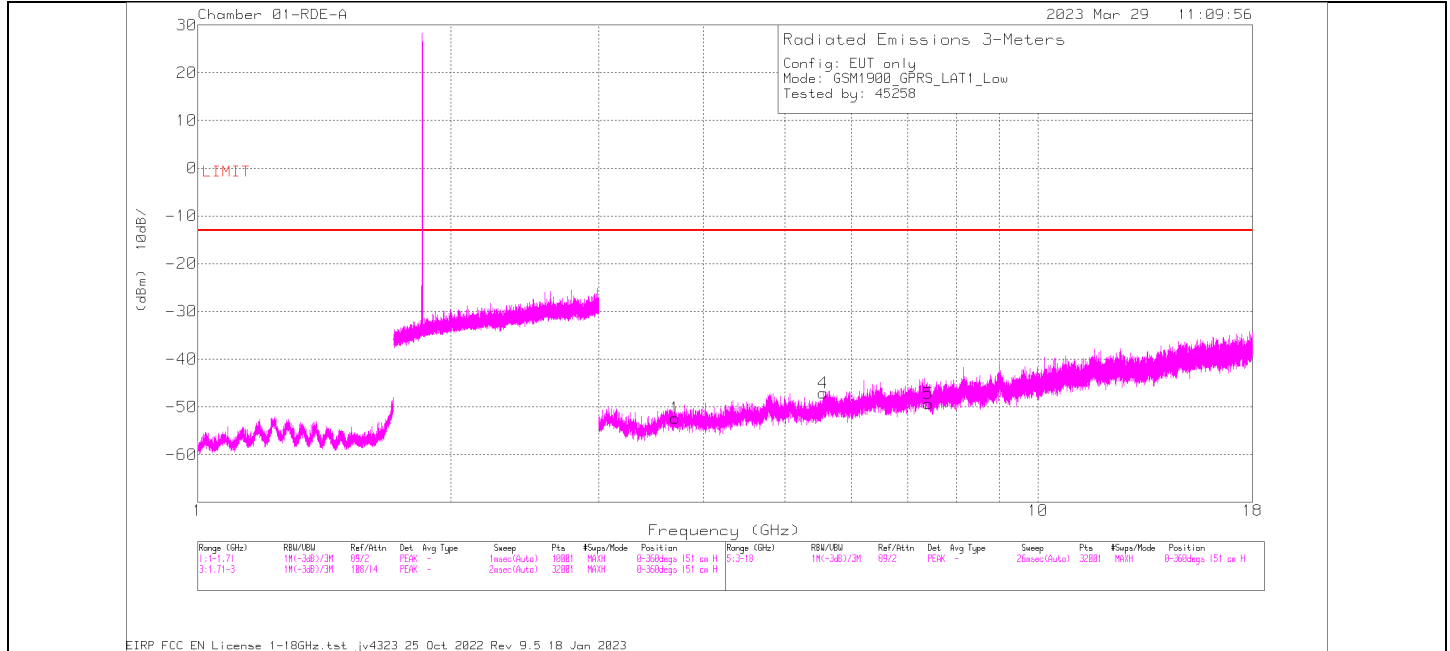
So, from d)

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

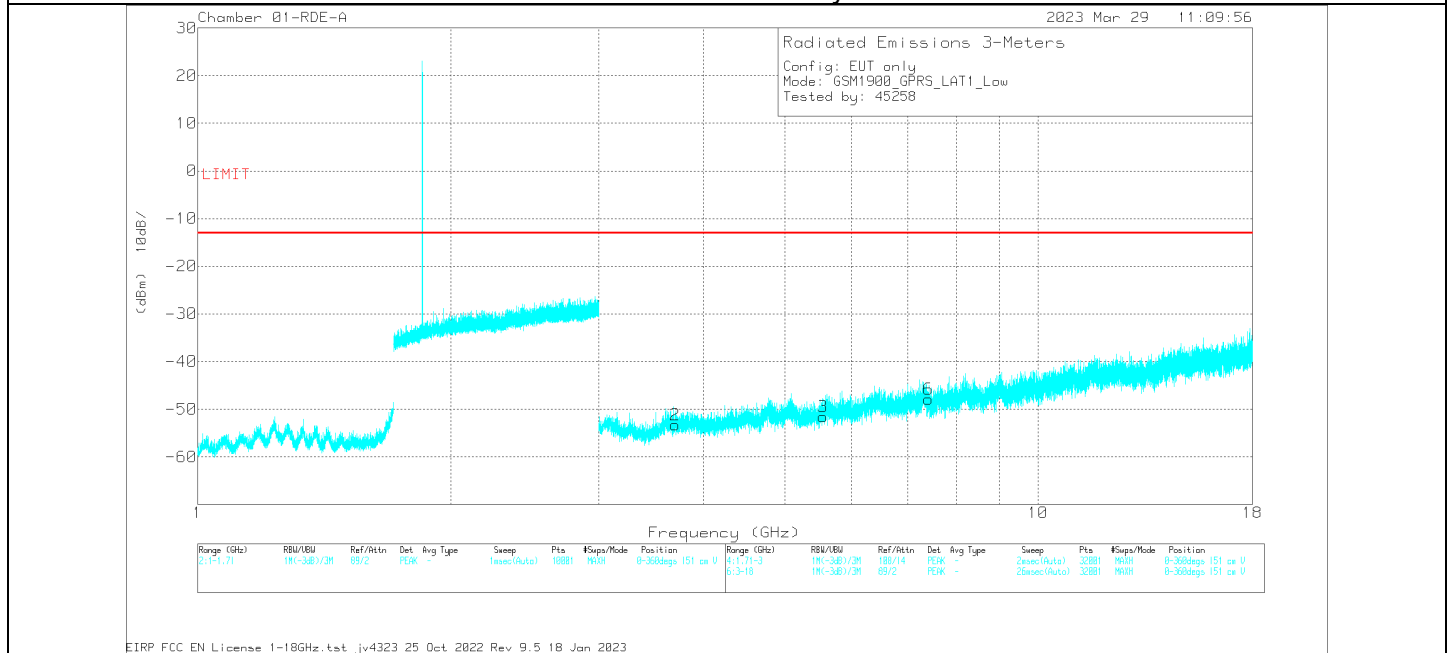
Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

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.

Example Plot



Horizontal Polarity



Vertical Polarity

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.700313	35.02	Pk	33	-95.2	-25.12	-52.3	-13	-39.3	H
3.700313	34.1	Pk	33	-95.2	-25.12	-53.22	-13	-40.22	V
5.550469	34.9	Pk	34.6	-95.2	-21.43	-47.13	-13	-34.13	H
5.550469	30.5	Pk	34.6	-95.2	-21.43	-51.53	-13	-38.53	V
7.400625	28.82	Pk	35.5	-95.2	-18.4	-49.28	-13	-36.28	H
7.400625	30.16	Pk	35.5	-95.2	-18.4	-47.94	-13	-34.94	V

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 1

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, and §27.53
ISED: RSS132§5.5; RSS133§6.5 and RSS139§5.6

LIMIT

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

Mobile and base station equipment shall comply with the limits in (i) and (ii) 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 (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).
- (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 (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS133§6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

- (i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).
- (ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS139§5.6

- (i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.
- (ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

TEST PROCEDURE

KDB 971168 D01

RESULTS

10.1.1. GSM 850

GPRS MODE

Project #:	4790592300
Date:	03/31/2022
Test Engineer:	25019
Configuration:	EUT Only
Mode:	GPRS 850
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 824.2 MHz									
1.648463	67.55	Pk	28.6	-95.2	-48.94	-47.99	-13	-34.99	H
1.648163	60.28	Pk	28.6	-95.2	-48.95	-55.27	-13	-42.27	V
2.472571	63.11	Pk	32.0	-95.2	-49.58	-49.67	-13	-36.67	H
2.472743	60.15	Pk	32.0	-95.2	-49.57	-52.62	-13	-39.62	V
3.295888	55.82	Pk	32.9	-95.2	-46.77	-53.25	-13	-40.25	H
3.296600	52.81	Pk	32.9	-95.2	-46.75	-56.24	-13	-43.24	V
Mid Channel, 836.6 MHz									
1.673044	62.55	Pk	28.9	-95.2	-48.94	-52.69	-13	-39.69	H
1.673127	58.33	Pk	28.9	-95.2	-48.93	-56.90	-13	-43.90	V
2.509723	66.49	Pk	32.1	-95.2	-49.50	-46.11	-13	-33.11	H
2.509696	59.70	Pk	32.1	-95.2	-49.50	-52.90	-13	-39.90	V
3.345859	55.63	Pk	32.8	-95.2	-46.82	-53.59	-13	-40.59	V
3.347308	56.45	Pk	32.8	-95.2	-46.87	-52.82	-13	-39.82	H
High Channel, 848.8 MHz									
1.735682	59.60	Pk	29.8	-95.2	-48.74	-54.54	-13	-41.54	H
1.737720	59.50	Pk	29.8	-95.2	-48.78	-54.68	-13	-41.68	V
2.546789	59.92	Pk	32.2	-95.2	-49.48	-52.56	-13	-39.56	H
2.546649	61.96	Pk	32.2	-95.2	-49.47	-50.51	-13	-37.51	V
3.393665	55.19	Pk	32.8	-95.2	-46.65	-53.86	-13	-40.86	H
3.393587	55.76	Pk	32.8	-95.2	-46.66	-53.30	-13	-40.30	V

EGPRS MODE

Project #:	4790592300
Date:	03/31/2022
Test Engineer:	25019
Configuration:	EUT Only
Mode:	EGPRS 850
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 824.2 MHz									
1.645750	56.26	Pk	29	-95.2	-46.48	-56.42	-13	-43.42	H
1.638775	55.41	Pk	29	-95.2	-46.38	-57.17	-13	-44.17	V
2.476450	55.69	Pk	32.3	-95.2	-45.97	-53.18	-13	-40.18	H
2.478700	55.86	Pk	32.3	-95.2	-45.98	-53.02	-13	-40.02	V
3.285100	54.02	Pk	32.9	-95.2	-44.9	-53.18	-13	-40.18	H
3.276100	54.19	Pk	32.9	-95.2	-44.89	-53	-13	-40.00	V
Mid Channel, 836.6 MHz									
1.673088	60.51	Pk	28.9	-95.2	-48.94	-54.73	-13	-41.73	H
1.674932	58.57	Pk	28.9	-95.2	-48.89	-56.62	-13	-43.62	V
2.509819	66.05	Pk	32.1	-95.2	-49.50	-46.55	-13	-33.55	H
2.510035	71.52	Pk	32.1	-95.2	-49.50	-41.08	-13	-28.08	V
4.182866	58.66	Pk	33.3	-95.2	-46.66	-49.90	-13	-36.90	H
4.182913	56.79	Pk	33.3	-95.2	-46.67	-51.78	-13	-38.78	V
High Channel, 848.8 MHz									
1.697394	59.79	Pk	29.2	-95.2	-48.88	-55.09	-13	-42.09	H
1.697735	59.61	Pk	29.2	-95.2	-48.87	-55.26	-13	-42.26	V
2.546591	72.32	Pk	32.2	-95.2	-49.47	-40.15	-13	-27.15	H
2.546297	66.68	Pk	32.2	-95.2	-49.45	-45.77	-13	-32.77	V
3.395466	55.59	Pk	32.8	-95.2	-46.51	-53.32	-13	-40.32	H
3.394227	55.15	Pk	32.8	-95.2	-46.62	-53.87	-13	-40.87	V

10.1.2. GSM 1900

GPRS MODE

Project #:	4790592300
Date:	03/30/2022
Test Engineer:	25019
Configuration:	EUT Only
Mode:	GPRS 1900
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.700951	54.77	Pk	33.1	-95.2	-45.71	-53.04	-13	-40.04	H
3.699285	54.55	Pk	33.1	-95.2	-45.64	-53.19	-13	-40.19	V
5.552031	55.99	Pk	34.4	-95.2	-46.88	-51.69	-13	-38.69	H
5.548592	56.85	Pk	34.4	-95.2	-46.83	-50.78	-13	-37.78	V
7.401604	55.90	Pk	35.7	-95.2	-46.11	-49.71	-13	-36.71	H
7.398579	55.29	Pk	35.7	-95.2	-46.05	-50.26	-13	-37.26	V
Mid Channel, 1880MHz									
3.758269	54.56	Pk	33.2	-95.2	-45.58	-53.02	-13	-40.02	H
3.759137	55.02	Pk	33.2	-95.2	-45.54	-52.52	-13	-39.52	V
5.640216	56.60	Pk	34.5	-95.2	-46.54	-50.64	-13	-37.64	H
5.638982	56.85	Pk	34.5	-95.2	-46.60	-50.45	-13	-37.45	V
7.520780	55.66	Pk	35.6	-95.2	-46.15	-50.09	-13	-37.09	H
7.519040	55.66	Pk	35.6	-95.2	-46.06	-50.00	-13	-37.00	V
High Channel, 1909.8MHz									
3.821164	55.15	Pk	33.3	-95.2	-45.85	-52.6	-13	-39.60	H
3.820980	55.26	Pk	33.3	-95.2	-45.84	-52.48	-13	-39.48	V
5.729810	55.29	Pk	34.5	-95.2	-46.44	-51.85	-13	-38.85	H
5.729626	57.64	Pk	34.5	-95.2	-46.47	-49.53	-13	-36.53	V
7.638865	56.53	Pk	35.7	-95.2	-46.11	-49.08	-13	-36.08	H
7.639781	55.88	Pk	35.7	-95.2	-46.15	-49.77	-13	-36.77	V

EGPRS MODE

Project #:	4790592300
Date:	3/30/2023
Test Engineer:	25019
Configuration:	EUT Only
Mode:	EGPRS 1900
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 824.2 MHz									
3.699909	55.31	Pk	33.1	-95.2	-45.65	-52.44	-13	-39.44	H
3.700129	54.67	Pk	33.1	-95.2	-45.66	-53.09	-13	-40.09	V
5.551234	57.14	Pk	34.4	-95.2	-46.90	-50.56	-13	-37.56	H
5.548575	57.25	Pk	34.4	-95.2	-46.83	-50.38	-13	-37.38	V
7.402193	55.29	Pk	35.7	-95.2	-46.12	-50.33	-13	-37.33	H
7.399957	56.01	Pk	35.7	-95.2	-46.06	-49.55	-13	-36.55	V
Mid Channel, 836.6 MHz									
3.761237	54.51	Pk	33.2	-95.2	-45.71	-53.2	-13	-40.20	H
3.761894	54.86	Pk	33.2	-95.2	-45.76	-52.9	-13	-39.90	V
5.641722	55.89	Pk	34.5	-95.2	-46.60	-51.41	-13	-38.41	H
5.638865	56.74	Pk	34.5	-95.2	-46.61	-50.57	-13	-37.57	V
7.518732	55.66	Pk	35.6	-95.2	-46.05	-49.99	-13	-36.99	H
7.521975	55.96	Pk	35.6	-95.2	-46.20	-49.84	-13	-36.84	V
High Channel, 848.8 MHz									
3.819981	54.96	Pk	33.3	-95.2	-45.79	-52.73	-13	-39.73	H
3.820126	55.83	Pk	33.3	-95.2	-45.8	-51.87	-13	-38.87	V
5.73071	55.66	Pk	34.5	-95.2	-46.39	-51.43	-13	-38.43	H
5.730984	55.81	Pk	34.5	-95.2	-46.38	-51.27	-13	-38.27	V
7.637971	57.24	Pk	35.7	-95.2	-46.14	-48.4	-13	-35.4	H
7.637877	56.08	Pk	35.7	-95.2	-46.13	-49.55	-13	-36.55	V

10.1.3. WCDMA BAND 5

REL 99 MODE

Project #:	4790592300
Date:	4/14/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	REL 99 Band 5
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.646650	58.76	Pk	28.0	-95.2	-48.81	-57.25	-13	-44.25	H
1.634050	59.29	Pk	27.8	-95.2	-48.65	-56.76	-13	-43.76	V
2.480950	58.92	Pk	32.5	-95.2	-48.26	-52.04	-13	-39.04	H
2.479600	57.94	Pk	32.5	-95.2	-48.21	-52.97	-13	-39.97	V
3.294100	55.56	Pk	32.9	-95.2	-46.30	-53.04	-13	-40.04	H
3.297250	56.74	Pk	32.9	-95.2	-46.48	-52.04	-13	-39.04	V
Mid Channel, 836.6 MHz									
1.671400	59.69	Pk	28.4	-95.2	-48.65	-55.76	-13	-42.76	H
1.675000	59.74	Pk	28.4	-95.2	-48.68	-55.74	-13	-42.74	V
2.503900	58.31	Pk	32.6	-95.2	-47.94	-52.23	-13	-39.23	H
2.503000	57.81	Pk	32.6	-95.2	-47.95	-52.74	-13	-39.74	V
3.343600	55.22	Pk	32.9	-95.2	-46.04	-53.12	-13	-40.12	H
3.341350	55.08	Pk	32.9	-95.2	-46.06	-53.28	-13	-40.28	V
High Channel, 848.6 MHz									
1.688050	59.11	Pk	28.6	-95.2	-48.62	-56.11	-13	-43.11	H
1.691650	59.91	Pk	28.7	-95.2	-48.75	-55.34	-13	-42.34	V
2.524600	57.24	Pk	32.6	-95.2	-47.98	-53.34	-13	-40.34	H
2.514250	58.13	Pk	32.6	-95.2	-47.98	-52.45	-13	-39.45	V
3.376000	54.55	Pk	32.8	-95.2	-46.28	-54.13	-13	-41.13	H
3.376900	54.78	Pk	32.8	-95.2	-46.22	-53.84	-13	-40.84	V

HSDPA MODE

Project #:	4790592300
Date:	3/14/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	HSDPA Band 5
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.651150	58.87	Pk	28.1	-95.2	-48.82	-57.05	-13	-44.05	H
1.645750	58.92	Pk	28.0	-95.2	-48.84	-57.12	-13	-44.12	V
2.475100	58.67	Pk	32.5	-95.2	-48.23	-52.26	-13	-39.26	H
2.486350	58.83	Pk	32.5	-95.2	-48.25	-52.12	-13	-39.12	V
3.305800	56.18	Pk	32.9	-95.2	-46.35	-52.47	-13	-39.47	H
3.305350	56.58	Pk	32.9	-95.2	-46.33	-52.05	-13	-39.05	V
Mid Channel, 836.6 MHz									
1.677250	60.34	Pk	28.5	-95.2	-48.77	-55.13	-13	-42.13	H
1.674550	59.33	Pk	28.4	-95.2	-48.7	-56.17	-13	-43.17	V
2.511550	57.58	Pk	32.6	-95.2	-47.93	-52.95	-13	-39.95	H
2.515600	58.35	Pk	32.6	-95.2	-48.02	-52.27	-13	-39.27	V
3.341800	55.38	Pk	32.9	-95.2	-46.00	-52.92	-13	-39.92	H
3.350800	54.53	Pk	32.9	-95.2	-46.10	-53.87	-13	-40.87	V
High Channel, 848.6 MHz									
1.685350	58.66	Pk	28.6	-95.2	-48.56	-56.50	-13	-43.5	H
1.691650	60.67	Pk	28.7	-95.2	-48.75	-54.58	-13	-41.58	V
2.53990	57.99	Pk	32.5	-95.2	-48.25	-52.96	-13	-39.96	H
2.526400	56.56	Pk	32.6	-95.2	-47.96	-54.00	-13	-41.00	V
3.384550	54.72	Pk	32.8	-95.2	-46.29	-53.97	-13	-40.97	H
3.382750	54.78	Pk	32.8	-95.2	-46.22	-53.84	-13	-40.84	V

10.1.4. WCDMA BAND 2

REL 99 MODE

Project #:	4790592300
Date:	4/7/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	REL 99 Band 2
Chamber #:	04-RDE-J

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.704531	53.79	Pk	33.2	-44.3	-95.2	-52.51	-13	-39.51	H
3.720938	53.41	Pk	33.2	-44.4	-95.2	-52.99	-13	-39.99	V
5.557031	54.01	Pk	34.6	-43.3	-95.2	-49.89	-13	-36.89	H
5.560313	52.82	Pk	34.6	-43.4	-95.2	-51.18	-13	-38.18	V
7.426875	48.23	Pk	35.8	-40.0	-95.2	-51.17	-13	-38.17	H
7.432969	49.13	Pk	35.8	-40.1	-95.2	-50.37	-13	-37.37	V
Mid Channel, 1880MHz									
3.758438	53.50	Pk	33.2	-44	-95.2	-52.50	-13	-39.50	H
3.753750	52.46	Pk	33.2	-43.9	-95.2	-53.44	-13	-40.44	V
5.636306	61.82	Pk	34.6	-43.5	-95.2	-42.28	-13	-29.28	H
5.643564	62.70	Pk	34.6	-43.6	-95.2	-41.50	-13	-28.50	V
7.506563	49.27	Pk	35.8	-39.8	-95.2	-49.93	-13	-36.93	H
7.515469	48.66	Pk	35.8	-39.9	-95.2	-50.64	-13	-37.64	V
High Channel, 1907.6MHz									
3.803906	53.57	Pk	33.4	-44.3	-95.2	-52.53	-13	-39.53	H
3.808125	52.51	Pk	33.4	-44.0	-95.2	-53.29	-13	-40.29	V
5.734688	51.26	Pk	34.7	-42.9	-95.2	-52.14	-13	-39.14	H
5.721094	51.90	Pk	34.7	-43.1	-95.2	-51.7	-13	-38.70	V
7.629375	48.51	Pk	35.8	-39.8	-95.2	-50.69	-13	-37.69	H
7.656094	48.42	Pk	35.8	-39.8	-95.2	-50.78	-13	-37.78	V

HSDPA MODE

Project #:	4790592300
Date:	3/7/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	04-RDE-J

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.699844	54.23	Pk	33.2	-44.4	-95.2	-52.17	-13	-39.17	H
3.705938	53.69	Pk	33.2	-44.4	-95.2	-52.71	-13	-39.71	V
5.570156	52.90	Pk	34.6	-43.5	-95.2	-51.20	-13	-38.20	H
5.589375	52.39	Pk	34.6	-43.5	-95.2	-51.71	-13	-38.71	V
7.391719	49.11	Pk	35.8	-40.3	-95.2	-50.59	-13	-37.59	H
7.390313	49.90	Pk	35.8	-40.3	-95.2	-49.80	-13	-36.80	V
Mid Channel, 1880MHz									
3.750469	54.01	Pk	33.2	-44.0	-95.2	-51.99	-13	-38.99	H
3.753281	53.70	Pk	33.2	-43.9	-95.2	-52.20	-13	-39.20	V
5.643281	52.83	Pk	34.6	-43.6	-95.2	-51.37	-13	-38.37	H
5.651719	52.27	Pk	34.6	-43.4	-95.2	-51.73	-13	-38.73	V
7.519688	49.05	Pk	35.8	-40.0	-95.2	-50.35	-13	-37.35	H
7.515000	49.31	Pk	35.8	-39.8	-95.2	-49.89	-13	-36.89	V
High Channel, 1907.6MHz									
3.825938	52.75	Pk	33.4	-44.3	-95.2	-53.35	-13	-40.35	H
3.820313	52.72	Pk	33.4	-44.2	-95.2	-53.28	-13	-40.28	V
5.732344	52.35	Pk	34.7	-43.0	-95.2	-51.15	-13	-38.15	H
5.734688	52.42	Pk	34.7	-42.9	-95.2	-50.98	-13	-37.98	V
7.607344	48.39	Pk	35.8	-39.6	-95.2	-50.61	-13	-37.61	H
7.590000	48.18	Pk	35.8	-39.7	-95.2	-50.92	-13	-37.92	V

10.1.5. WCDMA BAND 4

REL 99 MODE

Project #:	4790592300
Date:	4/18/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	REL 99 Band 4
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
3.440156	35.50	Pk	32.6	-95.2	-25.60	-52.70	-13	-39.70	H
3.431719	35.96	Pk	32.5	-95.2	-25.78	-52.52	-13	-39.52	V
5.124844	35.23	Pk	34.4	-95.2	-22.32	-47.89	-13	-34.89	H
5.114531	35.42	Pk	34.4	-95.2	-22.12	-47.50	-13	-34.50	V
6.875625	34.64	Pk	35.5	-95.2	-20.02	-45.08	-13	-32.08	H
6.858281	32.56	Pk	35.5	-95.2	-19.98	-47.12	-13	-34.12	V
Mid Channel, 1732.6MHz									
3.487969	34.57	Pk	32.5	-95.2	-24.70	-52.83	-13	-39.83	H
3.485156	34.54	Pk	32.5	-95.2	-24.73	-52.89	-13	-39.89	V
5.199375	35.60	Pk	34.5	-95.2	-23.00	-48.10	-13	-35.10	H
5.218125	35.59	Pk	34.5	-95.2	-22.90	-48.01	-13	-35.01	V
6.946406	33.30	Pk	35.5	-95.2	-19.40	-45.80	-13	-32.80	H
6.934219	33.39	Pk	35.5	-95.2	-19.53	-45.84	-13	-32.84	V
High Channel, 1752.6MHz									
3.520313	35.51	Pk	32.5	-95.2	-24.29	-51.48	-13	-38.48	H
3.508125	34.37	Pk	32.5	-95.2	-24.38	-52.71	-13	-39.71	V
5.275313	35.24	Pk	34.6	-95.2	-22.22	-47.58	-13	-34.58	H
5.261719	37.23	Pk	34.6	-95.2	-22.32	-45.69	-13	-32.69	V
7.003594	33.69	Pk	35.5	-95.2	-18.8	-44.81	-13	-31.81	H
6.986250	33.15	Pk	35.5	-95.2	-19.01	-45.56	-13	-32.56	V

HSDPA MODE

Project #:	4790592300
Date:	3/29/2023
Test Engineer:	24943
Configuration:	EUT Only
Mode:	HSDPA Band 4
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
3.398438	35.32	Pk	32.5	-95.2	-25.65	-53.03	-13	-40.03	H
3.398906	34.52	Pk	32.5	-95.2	-25.66	-53.84	-13	-40.84	V
5.114531	35.06	Pk	34.4	-95.2	-22.12	-47.86	-13	-34.86	H
5.122031	34.51	Pk	34.3	-95.2	-22.24	-48.63	-13	-35.63	V
6.834375	33.27	Pk	35.5	-95.2	-19.76	-46.19	-13	-33.19	H
6.838125	32.18	Pk	35.5	-95.2	-19.81	-47.33	-13	-34.33	V
Mid Channel, 1732.6MHz									
3.474844	34.55	Pk	32.5	-95.2	-25.17	-53.32	-13	-40.32	H
3.474844	35.65	Pk	32.5	-95.2	-25.17	-52.22	-13	-39.22	V
5.201250	34.62	Pk	34.5	-95.2	-22.97	-49.05	-13	-36.05	H
5.201250	36.22	Pk	34.5	-95.2	-22.97	-47.45	-13	-34.45	V
6.947813	33.37	Pk	35.5	-95.2	-19.40	-45.73	-13	-32.73	H
6.925313	34.03	Pk	35.5	-95.2	-19.66	-45.33	-13	-32.33	V
High Channel, 1752.6MHz									
3.530156	34.99	Pk	32.6	-95.2	-24.2	-51.81	-13	-38.81	H
3.518906	35.67	Pk	32.5	-95.2	-24.36	-51.39	-13	-38.39	V
5.273906	34.81	Pk	34.6	-95.2	-22.18	-47.97	-13	-34.97	H
5.285625	34.05	Pk	34.6	-95.2	-22.19	-48.74	-13	-35.74	V
7.009688	34.80	Pk	35.5	-95.2	-18.8	-43.70	-13	-30.70	H
7.017188	32.88	Pk	35.5	-95.2	-18.75	-45.57	-13	-32.57	V

10.2. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 2

10.2.1. GSM 850

GPRS MODE

Project #:	4790592300
Date:	04/13/2023
Test Engineer:	25019
Configuration:	EUT Only
Mode:	GPRS 850
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 824.2 MHz									
1.649518	59.41	Pk	28.6	-95.2	-48.90	-56.09	-13	-43.09	H
1.648746	59.10	Pk	28.6	-95.2	-48.93	-56.43	-13	-43.43	V
2.470665	60.00	Pk	32.0	-95.2	-49.58	-52.78	-13	-39.78	H
2.472545	59.06	Pk	32.0	-95.2	-49.58	-53.72	-13	-40.72	V
3.294506	55.80	Pk	32.9	-95.2	-46.90	-53.40	-13	-40.40	H
3.297597	55.89	Pk	32.9	-95.2	-46.75	-53.16	-13	-40.16	V
Mid Channel, 836.6 MHz									
1.672093	58.27	Pk	28.9	-95.2	-48.93	-56.96	-13	-43.96	H
1.672763	58.80	Pk	28.9	-95.2	-48.94	-56.44	-13	-43.44	V
2.509789	60.38	Pk	32.1	-95.2	-49.5	-52.22	-13	-39.22	H
2.507482	59.09	Pk	32.1	-95.2	-49.44	-53.45	-13	-40.45	V
3.345381	56.24	Pk	32.8	-95.2	-46.79	-52.95	-13	-39.95	H
3.343957	55.63	Pk	32.8	-95.2	-46.67	-53.44	-13	-40.44	V
High Channel, 848.8 MHz									
1.697404	59.05	Pk	29.2	-95.2	-48.88	-55.83	-13	-42.83	H
1.698080	56.44	Pk	29.2	-95.2	-48.86	-58.42	-13	-45.42	V
2.546840	54.60	Pk	32.2	-95.2	-49.48	-57.88	-13	-44.88	H
2.546840	56.11	Pk	32.2	-95.2	-49.48	-56.37	-13	-43.37	V
3.395160	51.32	Pk	32.8	-95.2	-46.56	-57.64	-13	-44.64	H
3.395160	53.04	Pk	32.8	-95.2	-46.56	-55.92	-13	-42.92	V

EGPRS MODE

Project #:	4790592300
Date:	3/10/2023
Test Engineer:	12501
Configuration:	EUT Only
Mode:	EGPRS 850
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 824.2 MHz									
1.671680	55.64	Pk	28.9	-95.2	-48.95	-59.61	-13	-46.61	H
1.671680	56.25	Pk	28.9	-95.2	-48.95	-59.00	-13	-46.00	V
2.509440	57.13	Pk	32.1	-95.2	-49.51	-55.48	-13	-42.48	H
2.509440	56.86	Pk	32.1	-95.2	-49.51	-55.75	-13	-42.75	V
3.347640	52.33	Pk	32.8	-95.2	-46.86	-56.93	-13	-43.93	H
3.347640	53.12	Pk	32.8	-95.2	-46.86	-56.14	-13	-43.14	V
Mid Channel, 836.6 MHz									
1.673436	57.97	Pk	28.9	-95.2	-48.92	-57.25	-13	-44.25	H
1.675011	58.02	Pk	28.9	-95.2	-48.89	-57.17	-13	-44.17	V
2.509783	60.61	Pk	32.1	-95.2	-49.50	-51.99	-13	-38.99	H
2.509842	59.11	Pk	32.1	-95.2	-49.50	-53.49	-13	-40.49	V
3.346951	56.07	Pk	32.8	-95.2	-46.89	-53.22	-13	-40.22	H
3.347226	56.39	Pk	32.8	-95.2	-46.88	-52.89	-13	-39.89	V
High Channel, 848.8 MHz									
1.673440	57.43	Pk	28.9	-95.2	-48.92	-57.79	-13	-44.79	H
1.673440	55.67	Pk	28.9	-95.2	-48.92	-59.55	-13	-46.55	V
2.509440	56.72	Pk	32.1	-95.2	-49.51	-55.89	-13	-42.89	H
2.509440	57.25	Pk	32.1	-95.2	-49.51	-55.36	-13	-42.36	V
3.346760	52.93	Pk	32.8	-95.2	-46.88	-56.35	-13	-43.35	H
3.346760	53.12	Pk	32.8	-95.2	-46.88	-56.16	-13	-43.16	V

10.2.2. GSM 1900

GPRS MODE

Project #:	4790592300
Date:	3/3/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	GPRS 1900
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.723750	34.63	Pk	33.0	-95.2	-24.88	-52.45	-13	-39.45	H
3.719531	34.52	Pk	33.1	-95.2	-24.94	-52.52	-13	-39.52	V
5.533125	32.83	Pk	34.6	-95.2	-21.71	-49.48	-13	-36.48	H
5.541563	32.57	Pk	34.6	-95.2	-21.58	-49.61	-13	-36.61	V
7.411875	30.87	Pk	35.5	-95.2	-18.62	-47.45	-13	-34.45	H
7.395000	30.62	Pk	35.4	-95.2	-18.28	-47.46	-13	-34.46	V
Mid Channel, 1880MHz									
3.760001	55.22	Pk	33.2	-95.2	-45.54	-52.32	-13	-39.32	H
3.760467	54.49	Pk	33.2	-95.2	-45.61	-53.12	-13	-40.12	V
5.639479	59.68	Pk	34.5	-95.2	-46.56	-47.58	-13	-34.58	H
5.640069	61.77	Pk	34.5	-95.2	-46.52	-45.45	-13	-32.45	V
7.522955	56.24	Pk	35.6	-95.2	-46.24	-49.60	-13	-36.60	H
7.520353	56.35	Pk	35.6	-95.2	-46.13	-49.38	-13	-36.38	V
High Channel, 1909.8MHz									
3.818390	55.28	Pk	33.3	-95.2	-45.87	-52.49	-13	-39.49	H
3.820132	54.81	Pk	33.3	-95.2	-45.80	-52.89	-13	-39.89	V
5.729428	58.20	Pk	34.5	-95.2	-46.49	-48.99	-13	-35.99	H
5.729646	63.18	Pk	34.5	-95.2	-46.47	-43.99	-13	-30.99	V
7.640073	56.04	Pk	35.7	-95.2	-46.16	-49.62	-13	-36.62	H
7.640828	55.72	Pk	35.7	-95.2	-46.18	-49.96	-13	-36.96	V

EGPRS MODE

Project #:	4790592300
Date:	4/3/2023
Test Engineer:	25819
Configuration:	EUT Only
Mode:	EGPRS 1900
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.700356	54.60	Pk	33.1	-95.2	-45.67	-53.17	-13	-40.17	H
3.700417	54.92	Pk	33.1	-95.2	-45.68	-52.86	-13	-39.86	V
5.549440	56.67	Pk	34.4	-95.2	-46.86	-50.99	-13	-37.99	H
5.549020	56.37	Pk	34.4	-95.2	-46.82	-51.25	-13	-38.25	V
7.398601	55.39	Pk	35.7	-95.2	-46.05	-50.16	-13	-37.16	H
7.401905	55.24	Pk	35.7	-95.2	-46.12	-50.38	-13	-37.38	V
Mid Channel, 1880MHz									
3.760566	54.90	Pk	33.2	-95.2	-45.62	-52.72	-13	-39.72	H
3.759957	54.96	Pk	33.2	-95.2	-45.54	-52.58	-13	-39.58	V
5.639043	56.09	Pk	34.5	-95.2	-46.6	-51.21	-13	-38.21	H
5.641523	56.38	Pk	34.5	-95.2	-46.6	-50.92	-13	-37.92	V
7.519682	56.24	Pk	35.6	-95.2	-46.1	-49.46	-13	-36.46	H
7.522306	55.82	Pk	35.6	-95.2	-46.21	-49.99	-13	-36.99	V
High Channel, 1909.8MHz									
3.821106	55.31	Pk	33.3	-95.2	-45.85	-52.44	-13	-39.44	H
3.817957	54.88	Pk	33.3	-95.2	-45.93	-52.95	-13	-39.95	V
5.729645	56.13	Pk	34.5	-95.2	-46.47	-51.04	-13	-38.04	H
5.727510	56.97	Pk	34.5	-95.2	-46.54	-50.27	-13	-37.27	V
7.638720	55.87	Pk	35.7	-95.2	-46.12	-49.75	-13	-36.75	H
7.638948	55.48	Pk	35.7	-95.2	-46.11	-50.13	-13	-37.13	V

10.2.3. WCDMA BAND 5

REL 99 MODE

Project #:	4790592300
Date:	4/14/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	REL 99 Band 5
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.642600	59.51	Pk	27.9	-95.2	-48.76	-56.55	-13	-43.55	H
1.637200	59.01	Pk	27.9	-95.2	-48.78	-57.07	-13	-44.07	V
2.475550	58.80	Pk	32.5	-95.2	-48.22	-52.12	-13	-39.12	H
2.475100	58.11	Pk	32.5	-95.2	-48.23	-52.82	-13	-39.82	V
3.297700	55.84	Pk	32.9	-95.2	-46.41	-52.87	-13	-39.87	H
3.300400	56.03	Pk	32.9	-95.2	-46.36	-52.63	-13	-39.63	V
Mid Channel, 836.6 MHz									
1.679050	60.59	Pk	28.5	-95.2	-48.69	-54.80	-13	-41.80	H
1.681300	58.81	Pk	28.5	-95.2	-48.69	-56.58	-13	-43.58	V
2.512000	58.17	Pk	32.6	-95.2	-47.99	-52.42	-13	-39.42	H
2.513350	57.57	Pk	32.6	-95.2	-47.98	-53.01	-13	-40.01	V
3.338200	56.15	Pk	32.9	-95.2	-45.95	-52.10	-13	-39.10	H
3.348100	54.30	Pk	32.9	-95.2	-46.21	-54.21	-13	-41.21	V
High Channel, 848.6 MHz									
1.686250	58.88	Pk	28.6	-95.2	-48.63	-56.35	-13	-43.35	H
1.687150	58.20	Pk	28.6	-95.2	-48.67	-57.07	-13	-44.07	V
2.551150	57.31	Pk	32.4	-95.2	-48.34	-53.83	-13	-40.83	H
2.561950	57.12	Pk	32.3	-95.2	-48.28	-54.06	-13	-41.06	V
3.386800	54.86	Pk	32.8	-95.2	-46.39	-53.93	-13	-40.93	H
3.415600	55.00	Pk	32.8	-95.2	-46.57	-53.97	-13	-40.97	V

HSDPA MODE

Project #:	4790592300
Date:	4/14/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	HSDPA Band 5
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.657450	58.69	Pk	28.2	-95.2	-48.74	-57.05	-13	-44.05	V
1.658800	58.64	Pk	28.2	-95.2	-48.8	-57.16	-13	-44.16	H
2.468800	58.52	Pk	32.4	-95.2	-48.34	-52.62	-13	-39.62	H
2.474650	59.53	Pk	32.5	-95.2	-48.30	-51.47	-13	-38.47	V
3.317500	55.68	Pk	32.9	-95.2	-46.23	-52.85	-13	-39.85	H
3.326050	55.21	Pk	32.9	-95.2	-45.97	-53.06	-13	-40.06	V
Mid Channel, 836.6 MHz									
1.678150	59.46	Pk	28.5	-95.2	-48.76	-56.00	-13	-43.00	H
1.689400	58.53	Pk	28.7	-95.2	-48.73	-56.70	-13	-43.70	V
2.503450	57.58	Pk	32.6	-95.2	-47.95	-52.97	-13	-39.97	H
2.514700	57.17	Pk	32.6	-95.2	-47.96	-53.39	-13	-40.39	V
3.347650	55.51	Pk	32.9	-95.2	-46.13	-52.92	-13	-39.92	H
3.356200	54.21	Pk	32.9	-95.2	-46.14	-54.23	-13	-41.23	V
High Channel, 848.6 MHz									
1.697050	58.45	Pk	28.8	-95.2	-48.91	-56.86	-13	-43.86	H
1.693000	58.26	Pk	28.7	-95.2	-48.98	-57.22	-13	-44.22	V
2.525050	57.53	Pk	32.6	-95.2	-47.94	-53.01	-13	-40.01	H
2.529550	56.70	Pk	32.6	-95.2	-48.02	-53.92	-13	-40.92	V
3.400750	55.06	Pk	32.8	-95.2	-46.42	-53.76	-13	-40.76	H
3.411550	55.37	Pk	32.8	-95.2	-46.51	-53.54	-13	-40.54	V

10.2.4. WCDMA BAND 2

REL 99 MODE

Project #:	4790592300
Date:	03/31/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	REL 99 Band 2
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.728500	56.28	Pk	33.4	-95.2	-46.97	-52.49	-13	-39.49	H
3.718000	55.88	Pk	33.4	-95.2	-46.79	-52.71	-13	-39.71	V
5.549000	56.62	Pk	34.7	-95.2	-46.75	-50.63	-13	-37.63	H
5.563500	55.25	Pk	34.7	-95.2	-46.79	-52.04	-13	-39.04	V
7.413500	54.66	Pk	35.8	-95.2	-45.99	-50.73	-13	-37.73	H
7.425000	55.21	Pk	35.8	-95.2	-46.02	-50.21	-13	-37.21	V
Mid Channel, 1880MHz									
3.751000	55.79	Pk	33.4	-95.2	-46.94	-52.95	-13	-39.95	H
3.739500	55.45	Pk	33.4	-95.2	-46.98	-53.33	-13	-40.33	V
5.648000	55.65	Pk	34.8	-95.2	-46.74	-51.49	-13	-38.49	H
5.636500	55.30	Pk	34.8	-95.2	-46.78	-51.88	-13	-38.88	V
7.503000	56.59	Pk	35.8	-95.2	-45.78	-48.59	-13	-35.59	H
7.506500	53.77	Pk	35.8	-95.2	-45.60	-51.23	-13	-38.23	V
High Channel, 1907.6MHz									
3.801563	52.80	Pk	33.4	-44.2	-95.2	-53.20	-13	-40.20	H
3784688	52.76	Pk	33.3	-44.2	-95.2	-53.34	-13	-40.34	V
5.734688	51.88	Pk	34.7	-42.9	-95.2	-51.52	-13	-38.52	H
5.735156	51.24	Pk	34.7	-42.8	-95.2	-52.06	-13	-39.06	V
7.626563	48.10	Pk	35.8	-39.8	-95.2	-51.10	-13	-38.10	H
7.622813	48.13	Pk	35.8	-39.9	-95.2	-51.17	-13	-38.17	V

HSDPA MODE

Project #:	4790592300
Date:	4/7/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	04-RDE-J

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.711563	54.30	Pk	33.2	-44.3	-95.2	-52.00	-13	-39.00	H
3.723281	53.35	Pk	33.2	-44.4	-95.2	-53.05	-13	-40.05	V
5.577656	52.32	Pk	34.6	-43.4	-95.2	-51.68	-13	-38.68	H
5.584688	53.09	Pk	34.6	-43.5	-95.2	-51.01	-13	-38.01	V
7.437188	48.46	Pk	35.8	-39.9	-95.2	-50.84	-13	-37.84	H
7.419375	49.18	Pk	35.8	-40.1	-95.2	-50.32	-13	-37.32	V
Mid Channel, 1880MHz									
3.747656	53.82	Pk	33.2	-44.1	-95.2	-52.28	-13	-39.28	H
3.751406	53.19	Pk	33.2	-44	-95.2	-52.81	-13	-39.81	V
5.639063	52.60	Pk	34.6	-43.5	-95.2	-51.50	-13	-38.50	H
5.626875	53.05	Pk	34.6	-43.7	-95.2	-51.25	-13	-38.25	V
7.502813	47.78	Pk	35.8	-39.7	-95.2	-51.32	-13	-38.32	H
7.502344	48.08	Pk	35.8	-39.7	-95.2	-51.02	-13	-38.02	V
High Channel, 1907.6MHz									
3.811875	53.03	Pk	33.4	-44.2	-95.2	-52.97	-13	-39.97	H
3.806250	52.21	Pk	33.4	-44.1	-95.2	-53.69	-13	-40.69	V
5.708906	51.70	Pk	34.7	-43.3	-95.2	-52.1	-13	-39.1	H
5.730938	51.80	Pk	34.7	-43.2	-95.2	-51.9	-13	-38.9	V
7.651875	48.78	Pk	35.8	-39.9	-95.2	-50.52	-13	-37.52	H
7.647188	48.09	Pk	35.8	-39.8	-95.2	-51.11	-13	-38.11	V

10.2.5. WCDMA BAND 4

REL 99 MODE

Project #:	4790592300
Date:	4/18/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	REL 99 Band 4
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1732.6MHz									
3.420000	36.27	Pk	32.6	-95.2	-25.73	-52.06	-13	-39.06	H
3.422813	34.95	Pk	32.6	-95.2	-25.81	-53.46	-13	-40.46	V
5.135156	36.73	Pk	34.4	-95.2	-22.43	-46.50	-13	-33.50	H
5.134219	35.62	Pk	34.4	-95.2	-22.45	-47.63	-13	-34.63	V
6.827813	34.09	Pk	35.4	-95.2	-19.74	-45.45	-13	-32.45	H
6.829688	33.57	Pk	35.4	-95.2	-19.75	-45.98	-13	-32.98	V
Low Channel, 1712.4MHz									
3.475313	35.14	Pk	32.5	-95.2	-25.13	-52.69	-13	-39.69	H
3.480469	34.29	Pk	32.5	-95.2	-24.97	-53.38	-13	-40.38	V
5.186719	35.19	Pk	34.5	-95.2	-23.04	-48.55	-13	-35.55	H
5.199844	35.55	Pk	34.5	-95.2	-22.98	-48.13	-13	-35.13	V
6.954844	33.19	Pk	35.4	-95.2	-19.30	-45.91	-13	-32.91	H
6.936094	33.35	Pk	35.5	-95.2	-19.52	-45.87	-13	-32.87	V
High Channel, 1752.61MHz									
3.526875	35.27	Pk	32.6	-95.2	-24.22	-51.55	-13	-38.55	H
3.529688	35.40	Pk	32.6	-95.2	-24.18	-51.38	-13	-38.38	V
5.234531	34.69	Pk	34.5	-95.2	-22.60	-48.61	-13	-35.61	H
5.200313	35.07	Pk	34.5	-95.2	-22.97	-48.60	-13	-35.60	V
7.023750	33.63	Pk	35.5	-95.2	-18.69	-44.76	-13	-31.76	H
7.042031	33.57	Pk	35.4	-95.2	-18.74	-44.97	-13	-31.97	V

HSDPA MODE

Project #:	4790592300
Date:	4/18/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	HSDPA Band 4
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1732.6MHz									
3.410625	35.84	Pk	32.5	-95.2	-25.76	-52.62	-13	-39.62	H
3.420938	34.89	Pk	32.6	-95.2	-25.75	-53.46	-13	-40.46	V
5.125781	35.46	Pk	34.4	-95.2	-22.33	-47.67	-13	-34.67	H
5.130469	35.58	Pk	34.4	-95.2	-22.36	-47.58	-13	-34.58	V
6.865781	33.30	Pk	35.4	-95.2	-20.02	-46.52	-13	-33.52	H
6.885938	33.10	Pk	35.4	-95.2	-19.91	-46.61	-13	-33.61	V
Low Channel, 1712.4MHz									
3.455625	35.38	Pk	32.5	-95.2	-25.4	-52.72	-13	-39.72	H
3.441094	35.35	Pk	32.5	-95.2	-25.57	-52.92	-13	-39.92	V
5.177813	36.54	Pk	34.5	-95.2	-23.04	-47.20	-13	-34.20	H
5.185313	34.73	Pk	34.5	-95.2	-23.06	-49.03	-13	-36.03	V
6.951563	34.53	Pk	35.4	-95.2	-19.34	-44.61	-13	-31.61	H
6.965156	33.74	Pk	35.4	-95.2	-19.27	-45.33	-13	-32.33	V
High Channel, 1752.61MHz									
3.522188	34.25	Pk	32.6	-95.2	-24.26	-52.61	-13	-39.61	H
3.522188	33.99	Pk	32.6	-95.2	-24.26	-52.87	-13	-39.87	V
5.268281	34.66	Pk	34.6	-95.2	-22.22	-48.16	-13	-35.16	H
5.272031	34.36	Pk	34.6	-95.2	-22.22	-48.46	-13	-35.46	V
7.032656	33.22	Pk	35.5	-95.2	-18.65	-45.13	-13	-32.13	V
7.034063	33.84	Pk	35.5	-95.2	-18.67	-44.53	-13	-31.53	H

10.3. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 3

10.3.1. GSM 1900

GPRS MODE

Project #:	4790592300
Date:	4/6/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	GPRS 1900
Chamber #:	04-RDE-J

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.721875	53.94	Pk	33.2	-44.4	-95.2	-52.46	-13	-39.46	H
3.728906	54.24	Pk	33.2	-44.4	-95.2	-52.16	-13	-39.16	V
5.551875	54.12	Pk	34.6	-43.5	-95.2	-49.98	-13	-36.98	H
5.568281	51.74	Pk	34.6	-43.4	-95.2	-52.26	-13	-39.26	V
7.398281	49.32	Pk	35.8	-40.5	-95.2	-50.58	-13	-37.58	H
7.431563	48.52	Pk	35.8	-40.1	-95.2	-50.98	-13	-37.98	V
Mid Channel, 1880MHz									
3.740625	53.99	Pk	33.2	-44.0	-95.2	-52.01	-13	-39.01	H
3.729844	53.89	Pk	33.2	-44.3	-95.2	-52.41	-13	-39.41	V
5.638125	52.10	Pk	34.6	-43.5	-95.2	-52.00	-13	-39.00	H
5.645625	52.61	Pk	34.6	-43.5	-95.2	-51.49	-13	-38.49	V
7.534688	49.27	Pk	35.8	-39.8	-95.2	-49.93	-13	-36.93	H
7.552031	48.64	Pk	35.8	-39.8	-95.2	-50.56	-13	-37.56	V
High Channel, 1752.61MHz									
3.833438	52.55	Pk	33.4	-44.4	-95.2	-53.65	-13	-40.65	H
3.843281	53.45	Pk	33.4	-44.4	-95.2	-52.75	-13	-39.75	V
5.727188	52.08	Pk	34.7	-43.2	-95.2	-51.62	-13	-38.62	H
5.733281	51.05	Pk	34.7	-43.0	-95.2	-52.45	-13	-39.45	V
7.661250	47.74	Pk	35.8	-39.9	-95.2	-51.56	-13	-38.56	H
7.670156	47.76	Pk	35.8	-39.9	-95.2	-51.54	-13	-38.54	V

EGPRS MODE

Project #:	4790592300
Date:	4/6/2023
Test Engineer:	32145
Configuration:	EUT Only
Mode:	EGPRS 1900
Chamber #:	04-RDE-J

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1732.6MHz									
3.712969	53.44	Pk	33.2	-44.3	-95.2	-52.86	-13	-39.86	H
3.709688	53.25	Pk	33.2	-44.5	-95.2	-53.25	-13	-40.25	V
5.557969	52.05	Pk	34.6	-43.3	-95.2	-51.85	-13	-38.85	H
5.557500	51.83	Pk	34.6	-43.3	-95.2	-52.07	-13	-39.07	V
7.429688	48.49	Pk	35.8	-40.1	-95.2	-51.01	-13	-38.01	H
7.446563	48.73	Pk	35.8	-40.1	-95.2	-50.77	-13	-37.77	V
Low Channel, 1712.4MHz									
3.753750	53.57	Pk	33.2	-43.9	-95.2	-52.33	-13	-39.33	H
3.741094	54.55	Pk	33.2	-44	-95.2	-51.45	-13	-38.45	V
5.640000	54.12	Pk	34.6	-43.5	-95.2	-49.98	-13	-36.98	H
5.637656	51.97	Pk	34.6	-43.5	-95.2	-52.13	-13	-39.13	V
7.503750	48.58	Pk	35.8	-39.7	-95.2	-50.52	-13	-37.52	H
7.493906	48.93	Pk	35.8	-39.7	-95.2	-50.17	-13	-37.17	V
High Channel, 1752.61MHz									
3.814219	53.04	Pk	33.4	-44.1	-95.2	-52.86	-13	-39.86	H
3.819375	52.84	Pk	33.4	-44.2	-95.2	-53.16	-13	-40.16	V
5.752500	51.84	Pk	34.7	-43.0	-95.2	-51.66	-13	-38.66	H
5.748750	51.48	Pk	34.7	-42.9	-95.2	-51.92	-13	-38.92	V
7.627031	48.33	Pk	35.8	-39.8	-95.2	-50.87	-13	-37.87	H
7.620469	48.01	Pk	35.8	-39.8	-95.2	-51.19	-13	-38.19	V

10.3.2. WCDMA BAND 2

REL 99 MODE

Project #:	4790592300
Date:	5/3/2023
Test Engineer:	25196
Configuration:	EUT Only
Mode:	REL 99 Band 2
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1732.6MHz									
3.695000	55.56	Pk	33.2	-95.2	-46.89	-53.33	-13	-40.33	H
3.676000	55.56	Pk	33.1	-95.2	-46.84	-53.38	-13	-40.38	V
5.557000	57.35	Pk	34.7	-95.2	-46.91	-50.06	-13	-37.06	H
5.554500	57.12	Pk	34.7	-95.2	-46.76	-50.14	-13	-37.14	V
7.430500	55.41	Pk	35.8	-95.2	-46.00	-49.99	-13	-36.99	H
7.413500	54.47	Pk	35.8	-95.2	-45.99	-50.92	-13	-37.92	V
Low Channel, 1712.4MHz									
3.792000	55.79	Pk	33.5	-95.2	-46.67	-52.58	-13	-39.58	H
3.785000	55.35	Pk	33.5	-95.2	-46.74	-53.09	-13	-40.09	V
5.665000	55.95	Pk	34.8	-95.2	-46.54	-50.99	-13	-37.99	H
5.682000	54.98	Pk	34.8	-95.2	-46.45	-51.87	-13	-38.87	V
7.537500	54.22	Pk	35.8	-95.2	-45.66	-50.84	-13	-37.84	H
7.550500	55.45	Pk	35.8	-95.2	-45.65	-49.60	-13	-36.60	V
High Channel, 1752.61MHz									
3.824063	38.53	Pk	33.4	-95.2	-31.86	-55.13	-13	-42.13	H
3.832031	38.68	Pk	33.4	-95.2	-31.82	-54.94	-13	-41.94	V
5.726587	45.21	Pk	34.6	-95.2	-29.00	-44.39	-13	-31.39	H
5.719437	46.40	Pk	34.6	-95.2	-29.05	-43.25	-13	-30.25	V
7.629375	34.63	Pk	35.9	-95.2	-26.64	-51.31	-13	-38.31	H
7.560938	33.22	Pk	36.0	-95.2	-26.22	-52.2	-13	-39.20	V

HSDPA MODE

Project #:	4790592300
Date:	5/3/2023
Test Engineer:	25196
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1732.6MHz									
3.696563	41.64	Pk	33.1	-95.2	-32.40	-52.86	-13	-39.86	H
3.702656	40.76	Pk	33.1	-95.2	-32.43	-53.77	-13	-40.77	V
5.560852	46.98	Pk	34.5	-95.2	-29.57	-43.29	-13	-30.29	H
5.561057	48.73	Pk	34.5	-95.2	-29.58	-41.55	-13	-28.55	V
7.383281	36.19	Pk	35.8	-95.2	-26.61	-49.82	-13	-36.82	H
7.375313	37.69	Pk	35.8	-95.2	-26.76	-48.47	-13	-35.47	V
Low Channel, 1712.4MHz									
3.705938	40.82	Pk	33.1	-95.2	-32.42	-53.70	-13	-40.70	H
3.702188	40.30	Pk	33.1	-95.2	-32.47	-54.27	-13	-41.27	V
5.637419	47.14	Pk	34.5	-95.2	-30.11	-43.67	-13	-30.67	H
5.636296	49.29	Pk	34.5	-95.2	-30.12	-41.53	-13	-28.53	V
7.489219	35.72	Pk	35.9	-95.2	-26.33	-49.91	-13	-36.91	H
7.493467	37.56	Pk	35.9	-95.2	-26.27	-48.01	-13	-35.01	V
High Channel, 1752.61MHz									
3.848438	38.25	Pk	33.4	-95.2	-31.71	-55.26	-13	-42.26	H
3.840938	40.95	Pk	33.4	-95.2	-31.75	-52.6	-13	-39.6	V
5.726931	45.93	Pk	34.6	-95.2	-28.98	-43.65	-13	-30.65	H
5.719813	46.79	Pk	34.6	-95.2	-29.06	-42.87	-13	-29.87	V
7.607813	36.23	Pk	36	-95.2	-26.56	-49.53	-13	-36.53	H
7.651875	38.12	Pk	35.9	-95.2	-26.68	-47.86	-13	-34.86	V

10.3.3. WCDMA BAND 4

REL 99 MODE

Project #:	4790592300
Date:	5/4/2023
Test Engineer:	26128
Configuration:	EUT Only
Mode:	REL 99 Band 4
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1732.6MHz									
3.433125	40.96	Pk	32.6	-95.2	-32.94	-54.58	-13	-41.58	H
3.439219	41.07	Pk	32.6	-95.2	-32.99	-54.52	-13	-41.52	V
5.137031	37.89	Pk	34.8	-95.2	-30.26	-52.77	-13	-39.77	H
5.137031	36.90	Pk	34.8	-95.2	-30.26	-53.76	-13	-40.76	V
6.849375	33.80	Pk	35.7	-95.2	-26.86	-52.56	-13	-39.56	H
6.849375	34.44	Pk	35.7	-95.2	-26.86	-51.92	-13	-38.92	V
Low Channel, 1712.4MHz									
3.465000	39.07	Pk	32.6	-95.2	-33.06	-56.59	-13	-43.59	H
3.465000	39.32	Pk	32.6	-95.2	-33.06	-56.34	-13	-43.34	V
5.197031	35.90	Pk	34.7	-95.2	-29.35	-53.95	-13	-40.95	H
5.197031	36.94	Pk	34.7	-95.2	-29.35	-52.91	-13	-39.91	V
6.930000	34.25	Pk	35.7	-95.2	-26.42	-51.67	-13	-38.67	H
6.930000	33.83	Pk	35.7	-95.2	-26.42	-52.09	-13	-39.09	V
High Channel, 1752.61MHz									
3.502500	39.03	Pk	32.7	-95.2	-33.00	-56.47	-13	-43.47	H
3.502500	39.64	Pk	32.7	-95.2	-33.00	-55.86	-13	-42.86	V
5.257969	37.33	Pk	34.7	-95.2	-29.03	-52.20	-13	-39.20	H
5.257969	36.46	Pk	34.7	-95.2	-29.03	-53.07	-13	-40.07	V
7.0106250	33.60	Pk	35.7	-95.2	-26.71	-52.61	-13	-39.61	H
7.010625	33.31	Pk	35.7	-95.2	-26.71	-52.90	-13	-39.90	V

HSDPA MODE

Project #:	4790592300
Date:	5/4/2023
Test Engineer:	26128
Configuration:	EUT Only
Mode:	HSDPA Band 4
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl (dB)	EIRP CF	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
3.424688	38.55	Pk	32.6	-95.2	-33.06	-57.11	-13	-44.11	H
3.424688	39.62	Pk	32.6	-95.2	-33.06	-56.04	-13	-43.04	V
5.137031	38.58	Pk	34.8	-95.2	-30.26	-52.08	-13	-39.08	H
5.137031	36.98	Pk	34.8	-95.2	-30.26	-53.68	-13	-40.68	V
6.848906	34.47	Pk	35.7	-95.2	-26.82	-51.85	-13	-38.85	H
6.848906	33.61	Pk	35.7	-95.2	-26.82	-52.71	-13	-39.71	V
Mid Channel, 1732.6MHz									
3.465469	38.09	Pk	32.6	-95.2	-33.06	-57.57	-13	-44.57	H
3.465469	39.80	Pk	32.6	-95.2	-33.06	-55.86	-13	-42.86	V
5.197969	38.45	Pk	34.7	-95.2	-29.35	-51.4	-13	-38.40	H
5.197969	36.27	Pk	34.7	-95.2	-29.35	-53.58	-13	-40.58	V
6.930469	34.35	Pk	35.7	-95.2	-26.5	-51.65	-13	-38.65	H
6.930469	34.96	Pk	35.7	-95.2	-26.5	-51.04	-13	-38.04	V
High Channel, 1752.61MHz									
3.506250	38.18	Pk	32.7	-95.2	-32.98	-57.30	-13	-44.30	H
3.506250	40.29	Pk	32.7	-95.2	-32.98	-55.19	-13	-42.19	V
5.257500	37.07	Pk	34.7	-95.2	-28.99	-52.42	-13	-39.42	H
5.257500	36.78	Pk	34.7	-95.2	-28.99	-52.71	-13	-39.71	V
7.010156	33.51	Pk	35.7	-95.2	-26.66	-52.65	-13	-39.65	H
7.010156	33.72	Pk	35.7	-95.2	-26.66	-52.44	-13	-39.44	V

10.4. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 4

10.4.1. GSM 1900

GPRS MODE

Project #:	4790592300
Date:	4/6/2023
Test Engineer:	31300
Configuration:	EUT Only
Mode:	GPRS 1900
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.715500	54.67	Pk	33.6	-95.2	-44.83	-51.76	-13	-38.76	H
3.713500	53.15	Pk	33.6	-95.2	-44.78	-53.23	-13	-40.23	V
5.581500	53.38	Pk	34.8	-95.2	-44.1	-51.12	-13	-38.12	H
5.587000	52.08	Pk	34.9	-95.2	-44.01	-52.23	-13	-39.23	V
7.397500	51.9	Pk	35.8	-95.2	-42.13	-49.63	-13	-36.63	H
7.398500	51.75	Pk	35.9	-95.2	-42.16	-49.71	-13	-36.71	V
Mid Channel, 1880MHz									
3.765276	57.09	Pk	33.4	-95.2	-46.91	-51.62	-13	-38.62	H
3.760057	57.69	Pk	33.4	-95.2	-46.96	-51.07	-13	-38.07	V
5.639953	68.66	Pk	34.8	-95.2	-46.79	-38.53	-13	-25.53	H
5.639591	62.48	Pk	34.8	-95.2	-46.77	-44.69	-13	-31.69	V
7.520603	56.48	Pk	35.8	-95.2	-45.72	-48.64	-13	-35.64	H
7.519950	57.45	Pk	35.8	-95.2	-45.74	-47.69	-13	-34.69	V
High Channel, 1909.8MHz									
3.819257	57.98	Pk	33.5	-95.2	-46.70	-50.42	-13	-37.42	H
3.819615	59.14	Pk	33.5	-95.2	-46.70	-49.26	-13	-36.26	V
5.729515	66.91	Pk	34.8	-95.2	-46.15	-39.64	-13	-26.64	H
5.729161	63.32	Pk	34.8	-95.2	-46.08	-43.16	-13	-30.16	V
7.642492	56.12	Pk	35.7	-95.2	-45.64	-49.02	-13	-36.02	H
7.638955	56.91	Pk	35.7	-95.2	-45.61	-48.20	-13	-35.20	V

EGPRS MODE

Project #:	4790592300
Date:	4/6/2023
Test Engineer:	31300
Configuration:	EUT Only
Mode:	EGPRS 1900
Chamber #:	04-RDE-J

Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.711094	53.79	Pk	33.2	-44.4	-95.2	-52.61	-13	-39.61	H
3.718594	53.32	Pk	33.2	-44.4	-95.2	-53.08	-13	-40.08	V
5.572031	52.14	Pk	34.6	-43.5	-95.2	-51.96	-13	-38.96	H
5.552344	52.64	Pk	34.6	-43.5	-95.2	-51.46	-13	-38.46	V
7.411406	48.53	Pk	35.8	-40.2	-95.2	-51.07	-13	-38.07	H
7.400156	48.56	Pk	35.8	-40.4	-95.2	-51.24	-13	-38.24	V
Mid Channel, 1880MHz									
3.705469	53.21	Pk	33.2	-44.4	-95.2	-53.19	-13	-40.19	H
3.700781	53.06	Pk	33.2	-44.5	-95.2	-53.44	-13	-40.44	V
5.623594	52.21	Pk	34.6	-43.5	-95.2	-51.89	-13	-38.89	H
5.621250	51.65	Pk	34.6	-43.5	-95.2	-52.45	-13	-39.45	V
7.545938	49.22	Pk	35.8	-39.8	-95.2	-49.98	-13	-36.98	H
7.539844	48.42	Pk	35.8	-39.8	-95.2	-50.78	-13	-37.78	V
High Channel, 1909.8MHz									
3.820313	53.03	Pk	33.4	-44.2	-95.2	-52.97	-13	-39.97	H
3.816094	51.73	Pk	33.4	-44.1	-95.2	-54.17	-13	-41.17	V
5.714531	51.62	Pk	34.7	-43.3	-95.2	-52.18	-13	-39.18	H
5.700938	50.95	Pk	34.7	-43.4	-95.2	-52.95	-13	-39.95	V
7.616719	48.13	Pk	35.8	-39.7	-95.2	-50.97	-13	-37.97	H
7.617656	48.05	Pk	35.8	-39.7	-95.2	-51.05	-13	-38.05	V

10.4.2. WCDMA BAND 2

REL 99 MODE

Project #:	4790592300
Date:	3/3/2023
Test Engineer:	25196
Configuration:	EUT Only
Mode:	REL 99 Band 2
Chamber #:	01-RDE-B

Frequency	Meter	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected	LIMIT	Margin	Polarity
Low Channel, 1852.4MHz									
3.720000	41.67	Pk	33.1	-95.2	-32.24	-52.67	-13	-39.67	H
3.713906	40.85	Pk	33.1	-95.2	-32.28	-53.53	-13	-40.53	V
5.546719	38.16	Pk	34.5	-95.2	-29.26	-51.80	-13	-38.80	H
5.553391	42.81	Pk	34.5	-95.2	-29.37	-47.26	-13	-34.26	V
7.410000	35.19	Pk	35.8	-95.2	-26.47	-50.68	-13	-37.68	H
7.399219	36.02	Pk	35.8	-95.2	-26.47	-49.85	-13	-36.85	V
Mid Channel, 1880MHz									
3.849844	41.97	Pk	33.4	-95.2	-31.75	-51.58	-13	-38.58	H
3.863438	40.57	Pk	33.4	-95.2	-31.68	-52.91	-13	-39.91	V
5.643750	40.66	Pk	34.5	-95.2	-30.05	-50.09	-13	-37.09	H
5.636519	47.91	Pk	34.5	-95.2	-30.12	-42.91	-13	-29.91	V
7.520625	36.01	Pk	35.9	-95.2	-26.46	-49.75	-13	-36.75	H
7.521563	36.04	Pk	35.9	-95.2	-26.46	-49.72	-13	-36.72	V
High Channel, 1907.6MHz									
3.841875	41.13	Pk	33.4	-95.2	-31.72	-52.39	-13	-39.39	H
3.824531	40.69	Pk	33.4	-95.2	-31.89	-53.00	-13	-40.00	V
5.702344	40.25	Pk	34.6	-95.2	-29.41	-49.76	-13	-36.76	H
5.720625	38.59	Pk	34.6	-95.2	-29.06	-51.07	-13	-38.07	V
7.638750	35.89	Pk	35.9	-95.2	-26.64	-50.05	-13	-37.05	H
7.650938	36.42	Pk	35.9	-95.2	-26.65	-49.53	-13	-36.53	V

HSDPA MODE

Project #:	4790592300
Date:	3/3/2023
Test Engineer:	25196
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	01-RDE-B

Frequency	Meter	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected	LIMIT	Margin	Polarity
Low Channel, 1852.4MHz									
3.726563	40.74	Pk	33.1	-95.2	-32.27	-53.63	-13	-40.63	H
3.721875	40.66	Pk	33.1	-95.2	-32.21	-53.65	-13	-40.65	V
5.557500	37.59	Pk	34.5	-95.2	-29.48	-52.59	-13	-39.59	H
5.557500	38.85	Pk	34.5	-95.2	-29.48	-51.33	-13	-38.33	V
7.414219	36.33	Pk	35.8	-95.2	-26.42	-49.49	-13	-36.49	H
7.442344	35.83	Pk	35.9	-95.2	-26.45	-49.92	-13	-36.92	V
Mid Channel, 1880MHz									
3.698438	40.84	Pk	33.1	-95.2	-32.42	-53.68	-13	-40.68	H
3.680156	41.37	Pk	33.1	-95.2	-32.42	-53.15	-13	-40.15	V
4.504758	41.01	Pk	34.3	-95.2	-30.33	-50.22	-13	-37.22	H
4.492500	40.64	Pk	34.3	-95.2	-30.45	-50.71	-13	-37.71	V
7.395000	36.70	Pk	35.8	-95.2	-26.59	-49.29	-13	-36.29	H
7.282031	37.02	Pk	35.8	-95.2	-26.02	-48.40	-13	-35.40	V
High Channel, 1907.6MHz									
3.684815	43.69	Pk	33.1	-95.2	-32.37	-50.78	-13	-37.78	H
3.796761	43.18	Pk	33.3	-95.2	-31.93	-50.65	-13	-37.65	V
5.722031	38.34	Pk	34.6	-95.2	-28.98	-51.24	-13	-38.24	H
5.715000	37.08	Pk	34.6	-95.2	-29.04	-52.56	-13	-39.56	V
7.626094	36.99	Pk	35.9	-95.2	-26.54	-48.85	-13	-35.85	H
7.648594	36.88	Pk	35.9	-95.2	-26.67	-49.09	-13	-36.09	V

10.4.3. WCDMA BAND 4

REL 99 MODE

Project #:	4790592300
Date:	4/4/2023
Test Engineer:	25196
Configuration:	EUT Only
Mode:	REL 99 Band 4
Chamber #:	04-RDE-O

Frequency	Meter	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected	LIMIT	Margin	Polarity
Low Channel, 1852.4MHz									
3.321500	54.28	Pk	33.0	-95.2	-44.42	-52.34	-13	-39.34	H
3.318500	53.83	Pk	33.0	-95.2	-44.53	-52.90	-13	-39.90	V
5.143000	53.42	Pk	34.4	-95.2	-45.14	-52.52	-13	-39.52	H
5.084500	53.40	Pk	34.3	-95.2	-45.31	-52.81	-13	-39.81	V
6.864500	50.83	Pk	36.2	-95.2	-42.76	-50.93	-13	-37.93	H
6.837500	51.44	Pk	36.0	-95.2	-43.03	-50.79	-13	-37.79	V
Mid Channel, 1880MHz									
3.482000	53.60	Pk	33.2	-95.2	-44.82	-53.22	-13	-40.22	H
3.499500	53.38	Pk	34.9	-95.2	-44.79	-51.71	-13	-38.71	V
5.193500	53.00	Pk	34.4	-95.2	-45.08	-52.88	-13	-39.88	H
5.189500	53.74	Pk	34.3	-95.2	-45.09	-52.25	-13	-39.25	V
6.946500	51.36	Pk	36	-95.2	-43.01	-50.85	-13	-37.85	H
6.881000	51.31	Pk	36.1	-95.2	-42.91	-50.70	-13	-37.70	V
High Channel, 1907.6MHz									
3.509500	53.44	Pk	34.1	-95.2	-44.94	-52.60	-13	-39.60	H
3.461000	53.98	Pk	32.9	-95.2	-44.85	-53.17	-13	-40.17	V
5.228000	53.50	Pk	34.6	-95.2	-44.99	-52.09	-13	-39.09	H
5.199000	52.55	Pk	34.5	-95.2	-45.03	-53.18	-13	-40.18	V
7.004500	51.35	Pk	36.0	-95.2	-42.73	-50.58	-13	-37.58	H
6.974000	51.41	Pk	36.0	-95.2	-42.93	-50.72	-13	-37.72	V

HSDPA MODE

Project #:	4790592300
Date:	4/4/2023
Test Engineer:	26120
Configuration:	EUT Only
Mode:	HSDPA Band 4
Chamber #:	01-RDE-B

Frequency	Meter	Det	222740 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected	LIMIT	Margin	Polarity
Low Channel, 1712.4MHz									
3.424219	38.76	Pk	32.6	-95.2	-33.03	-56.87	-13	-43.87	H
3.424219	37.40	Pk	32.6	-95.2	-33.03	-58.23	-13	-45.23	V
5.137969	39.79	Pk	34.8	-95.2	-30.21	-50.82	-13	-37.82	H
5.137969	37.39	Pk	34.8	-95.2	-30.21	-53.22	-13	-40.22	V
6.849375	34.03	Pk	35.7	-95.2	-26.86	-52.33	-13	-39.33	H
6.849375	35.34	Pk	35.7	-95.2	-26.86	-51.02	-13	-38.02	V
Mid Channel, 1732.6MHz									
3.465469	38.09	Pk	32.6	-95.2	-33.06	-57.57	-13	-44.57	H
3.465469	38.96	Pk	32.6	-95.2	-33.06	-56.70	-13	-43.70	V
5.197500	38.35	Pk	34.7	-95.2	-29.35	-51.50	-13	-38.50	H
5.197500	36.41	Pk	34.7	-95.2	-29.35	-53.44	-13	-40.44	V
6.930469	34.96	Pk	35.7	-95.2	-26.50	-51.04	-13	-38.04	H
6.930469	34.75	Pk	35.7	-95.2	-26.50	-51.25	-13	-38.25	V
High Channel, 1752.61MHz									
3.503438	39.88	Pk	32.7	-95.2	-33.02	-55.64	-13	-42.64	H
3.503438	38.54	Pk	32.7	-95.2	-33.02	-56.98	-13	-43.98	V
5.2575	36.66	Pk	34.7	-95.2	-28.99	-52.83	-13	-39.83	H
5.2575	36.8	Pk	34.7	-95.2	-28.99	-52.69	-13	-39.69	V
7.010156	34.28	Pk	35.7	-95.2	-26.66	-51.88	-13	-38.88	H
7.010156	34.09	Pk	35.7	-95.2	-26.66	-52.07	-13	-39.07	V

11. SETUP PHOTOS

Please refer to 14523778-EP1V1 for Setup Photo Report for setup photos.

END OF REPORT