TEST REPORT

Report Number: 15496277-E21V2

Applicant	:	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	:	A3258
Brand	:	APPLE
FCC ID	:	BCG-E8947A
IC	:	579C-E8947A
EUT Description	:	SMARTPHONE
Test Standard(s)	:	FCC 47 CFR PART 2, PART 22H, PART 24E, PART 27, PART 25 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-132 ISSUE 4, RSS-133 ISSUE 7, RSS-139 ISSUE 4

Date Of Issue:
2025-08-14

Prepared by:
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ACCREDITED
CERT #0751.05

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-08-01	Initial Review	--
V2	2025-08-14	Updated Section 10	Eric Ting

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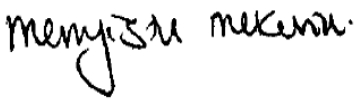
1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3258
Brand	APPLE
FCC ID	BCG-E8947A
IC	579C-E8947A
EUT Description	SMARTPHONE
Serial Number	RADIATED: DQMWH1905G, GQQ7TY7JLY, J46VHKX6H, DMXG3RKJYV CONDUCTED: J6HHCW0001W0000WEZ, J6HHG2000FA0000WEZ, J6HHH50000V0000WEZ
Sample Receipt Date	2024-11-21
Date Tested	2025-03-05 to 2025-07-08
Applicable Standards	FCC 47 CFR PART 2, PART 22H, PART 24E, PART 27, PART 25 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-132 ISSUE 4, RSS-133 ISSUE 7, RSS-139 ISSUE 4
Test Results	COMPLIES

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc will constitute fraud and shall nullify the document.

Approved & Released By:	Reviewed By:	Prepared By:
		
Mengistu Mekuria Staff Laboratory Engineer UL Verification Services Inc.	Tewodros Woldemichael Laboratory Engineer UL Verification Services Inc	Michael Vang Laboratory Engineer UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.4.)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
RF Conducted Output Power	2.1046	-	Complies	
Effective Radiated Power	22.913 (a)(5)	RSS132§5.4	Complies	
Equivalent Isotropic Radiated power	24.232 (c), 27.50 (d) (4)	RSS133§5.5 & SRSP-510, 5.1.2 RSS139§5.5	Complies	
Occupied Bandwidth	2.1049	RSS132 RSS133 RSS139 RSS-GEN§6.7	Complies	
Band Edge and Emission Mask	2.1051, 22.917 (a), 24.238 (a), 27.53 (h)	RSS132§5.5 RSS133§5.6 RSS139§5.6	Complies	
Out of Band Emissions	2.1051, 22.917 (a), 24.238 (a), 27.53 (h)	RSS132§5.5 RSS133§5.6 RSS139§5.6	Complies	
Frequency Stability	2.1055, 22.355, 24.235, 27.54	RSS132§5.3 RSS133§5.4 RSS139§5.4	Complies	
Peak-to-Average Ratio	22.913 (d), 24.232 (d), 27.50 (d) (5)	RSS132§5.4 RSS133§5.5 RSS139§5.5	Complies	
Field Strength of Spurious Radiation	2.1053, 22.917 (a), 24.238 (a), 27.53 (h)	RSS132§5.5 RSS133§5.6 RSS139§5.6	Complies	

SUPPLEMENTAL COVERAGE FROM SPACE (SCS)

Under section § 25.109 (f) of the FCC rules Space and SCS earth stations providing SCS are subject to technical rules in parts 2, 22, 24, and 27 of this chapter based on the operating frequency band. Section § 25.204 (g) specifies that earth stations providing SCS pursuant to §§ 25.125 and 25.115 shall comply with the power requirements and out-of-band emission limits corresponding to devices operating in parts 22, 24, or 27 of this chapter (e.g., §§ 22.913, 24.232, 27.50), as required for their operating frequencies. We have clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.

The table below identifies the SCS frequencies available for use and, for each band, the applicable FCC Part 22, 24, 27, and 90R technical requirements, the air interfaces supported by the device for SCS use.

The bands available for SCS and the bands supported by the devices in the scope of this report are:

	Frequency		Part 22/24/27/90 Rule parts	3GPP Band	Supported	Applicable to This Report
Band	DL (MHz)	UL (MHz)				
600 MHz:	614-652	663-698	27.5 (c) 27.50 (c) 27.53 (g)	71/n71	Yes	No
700 MHz:	729 – 746	699 –716	27.5 (c) 27.50 (c) 27.53 (g)	12/n12 17	Yes	No
	746 – 756	777 – 787	27.5 (b) 27.50 (b) 27.53 (f)	13/n13	Yes	No
	758-769	788-799	90R Note 1	14 / n14	Yes	No
	805-806 MHz				No	
800 MHz:	869-894	824-849	22H	WCDMA 5 5/n5 26/N26	Yes	Yes
Broadband PCS:	1930-1995	1850-1915	24E 24E	WCDMA 2 2/n2 25/n25	Yes	Yes
Note 1: Clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.						

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following.
FCC published lists of measurement procedures for compliance testing.
ISED published lists of normative test standards and acceptable alternatives procedures.

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 22H, Part 24E, Part 27 and Part 25
- FCC KDB 971168 D01: Power Meas License Digital Systems (ISED acceptable alternative procedure)
- FCC KDB 971168 D02: Misc Rev Approv License Devices
- FCC KDB 412172 D01: Determining ERP and EIRP
- FCC KDB 273109 D02: Part 25 SCS and CMRS-Bands
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-132 Issue 4, RSS-133 Issue 7, RSS-139 Issue 4

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☐	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
RF Power Measurement Direct Method Using Power Meter	0.450 dB Ave. 1.300 dB Peak
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5GNR1, 5GNR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

$ERP/EIRP = P_{Meas} + G_T - L_C$
where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;
G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

The EUT has different power levels for head use configuration and body use configuration. The below tables contain the highest of all configurations average conducted and peak EIRP/ERP output powers as follows:

GSM MODES

Part 22 / RSS 132 (ANT 2)									
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	FCC Limit (W)	ISED Limit (W)	ERP		99% BW (kHz)	Emission Designator
						(dBm)	(W)		
824.2-848.8	GPRS	32.20	-5.50	7.0	7.0	24.55	0.285	243.32	243KGXW
	EGPRS	27.00				19.35	0.086	243.11	243KG7W
Part 24 / RSS 133 (ANT 3)									
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	Limit (W)		EIRP		99% BW (kHz)	Emission Designator
						(dBm)	(W)		
1850.2-1909.8	GPRS	31.18	-1.70	2.0		29.48	0.887	244.46	244KGXW
	EGPRS	26.50				24.80	0.302	244.73	245KG7W

WCDMA MODE

Part 22 / RSS 132 Band 5 (ANT 2)										
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	FCC Limit (W)	ISED Limit (W)	ERP		99% BW (MHz)	99% BW (kHz)	Emission Designator
						(dBm)	(W)			
826.4-846.6	REL 99	25.20	-5.50	7.0	7.0	17.55	0.057	4.143	4142.6	4M14F9W
	HSDPA	24.24				16.59	0.046	4.130	4130.0	4M13F9W
Part 24 / RSS 133 Band 2 (ANT 3)										
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	Limit (W)		EIRP		99% BW (MHz)	99% BW (kHz)	Emission Designator
						(dBm)	(W)			
1852.4-1907.6	REL 99	25.50	-1.70	2.0		23.80	0.240	4.153	4152.6	4M15F9W
	HSDPA	24.53				22.83	0.192	4.154	4154.4	4M15F9W
Part 27 / RSS 139 Band 4 (ANT 1)										
Frequency range (MHz)	Modulation	Conducted (Average) (dBm)	Antenna Gain (dBi)	Limit (W)		EIRP		99% BW (MHz)	99% BW (kHz)	Emission Designator
						(dBm)	(W)			
1712.4-1752.6	REL 99	25.70	-1.50	1.0		24.20	0.263	4.148	4148.2	4M15F9W
	HSDPA	24.71				23.21	0.209	4.154	4154.1	4M15F9W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.8.0.0.

6.4. MAXIMUM ANTENNA GAIN AND MAXIMUM ALLOWED OUTPUT POWER

The IFA antenna(s) gain/ allowed output power, as provided by the manufacturer' are as follows:

Bands	Frequency Range (MHz)	Antenna	Gain (dBi)	Max Allowed Conducted Output Power (dBm)	ERP/EIRP (dBm)
GSM850	824 - 849	ANT1	-6.20	33.0	24.65
		ANT2	-5.50	32.5	**24.85**
		ANT3			
		ANT4			
GSM1900	1850 - 1910	ANT1	-3.70	32.0	28.30
		ANT2	-3.70	29.5	25.80
		ANT3	-1.70	31.5	**29.80**
		ANT4	0.40	29.0	29.40
WCDMA 5	824 - 849	ANT1	-6.20	25.7	17.35
		ANT2	-5.50	25.2	**17.55**
		ANT3			
		ANT4			
WCDMA 2	1850 - 1910	ANT1	-3.70	25.7	22.00
		ANT2	-3.70	23.4	19.70
		ANT3	-1.70	25.5	**23.80**
		ANT4	0.40	22.9	23.30
WCDMA 4	1710 - 1755	ANT1	-1.50	25.7	**24.20**
		ANT2	-2.60	23.4	20.80
		ANT3	-1.70	25.5	23.80
		ANT4	-0.10	22.9	22.80

6.5. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in three orthogonal orientations X/Y/Z on all available antennas to determine the worst-case orientation. The following table exhibits the worst-case orientation for different frequency bands. The full tests of the EUT have made upon the orientations shown in the table below.

Frequency Bands (MHz)	ANT1	ANT2	ANT3	ANT4
824 – 849	X	Y	N/A	N/A
1710 – 1915	X	X	X	X

Based on average conducted output power measurement investigations. The worst-case is Ant1 with the highest power. Therefore, Ant 1 was used to perform all conducted tests.

The worst-case scenario for all measurements as followed:
- GSM GPRS
- GSM EGPRS
- WCDMA REL 99
- WCDMA HSDPA

Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 1GHz and above 18GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GHz WLAN, UWB, and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies, and widest operation bandwidths. No noticeable new emission was found.

6.6. DESCRIPTION OF TEST SETUP

Refer to Appendix A for description of test setup.

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Asset**	**Cal Due**
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	85723	2026-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	230297	2026-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2026-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	200897	2026-04-30
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2026-01-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2026-02-28
RF Filter Box, 1-18GHz, 17 Port	UL-FR1	RATS 2	236726	2025-10-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	80403	2026-08-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	171863	2026-11-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224490	2026-05-06
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2025-07-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2025-07-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262735	2026-03-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262734	2026-04-30
PXA Signal Analyzer	Agilent Technologies Inc	N9030A	87738	2026-01-16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	230298	2026-02-28
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	222793	2026-02-28
Conducted Switch Box	N/A	CSB	227264	2026-03-31
Conducted Switch Box	N/A	CSB	262286	2026-04-30
Filter, BRF 3400-3800MHz, 18GHz max	Micro-Tronics	BRM50711	217364	2025-09-30
Filter, BRF 2305-2315	Micro-Tronics	BRC20553	224186	2026-06-29
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257704	2026-03-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	89097	2025-10-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	82472	2025-08-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	CLT	Ver.2023 11.21.0 & .2024.3.20.0 & 2022.7.6.0 & 2023.6.21	
Conducted Software	UL	Power Measurement	Ver.2023.8.14 & 2022.4.29 & 2023.6.8	
Conducted Software	UL	Antenna Port	Ver.2022.8.16& 2021.5.13	
Conducted Software	UL	Station Tool	Ver. 5.0 & 5.3 & 6.0 & 6.1	
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	

8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All bands conducted average power is obtained from the base station simulator.
The following tests were conducted according to the test requirements outlined in ANSI C63.26 Section 5.2.

RESULT

The EUT has different power levels for head use configuration and body use configuration. All measurements are made with the device operating at the highest average conducted output powers.

8.1. GSM

8.1.1. GSM 850

Test Engineer ID:	32061	Test Date:	2025-07-10

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Conducted Average Power (dBm)	
					ANT 1	ANT 2
GPRS (GMSK)	CS1	1	128	824.2	**33.00**	31.57
			190	836.6	32.82	**32.20**
			251	848.8	32.81	31.85
		2	128	824.2	32.00	30.81
			190	836.6	31.86	31.50
			251	848.8	31.85	31.26
EGPRS (8PSK)	MCS5	1	128	824.2	27.14	26.38
			190	836.6	**27.50**	**27.00**
			251	848.8	27.27	26.53
		2	128	824.2	26.14	25.38
			190	836.6	26.50	26.00
			251	848.8	26.25	25.58

8.1.2. GSM 1900

Test Engineer ID:	32061	Test Date:	2025-07-10

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Conducted Average Power (dBm)			
					ANT 1	ANT 2	ANT 3	ANT 4
GPRS (GMSK)	CS1	1	512	1850.2	31.86	28.44	30.59	28.23
			661	1880	**32.00**	**29.45**	**31.18**	**29.00**
			810	1909.8	31.90	28.03	31.09	28.02
		2	512	1850.2	30.88	27.58	29.79	27.21
			661	1880	31.00	28.50	30.50	28.00
			810	1909.8	30.90	27.10	30.48	27.06
EGPRS (8PSK)	MCS5	1	512	1850.2	26.62	23.66	25.98	23.19
			661	1880	26.55	**24.00**	**26.50**	**24.00**
			810	1909.8	**26.63**	23.91	26.32	22.79
		2	512	1850.2	25.43	22.63	24.95	22.37
			661	1880	25.34	23.00	25.50	23.00
			810	1909.8	25.43	22.08	25.37	22.08

8.2. WCDMA

8.2.1. WCDMA BAND 5

Test Engineer ID:	19146	Test Date:	2025-02-07

Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Conducted Average Power (dBm)	
						ANT 1	ANT 2
W-CDMA Band 5 (850MHz)	Rel 99	RMC, 12.2 kbps	4132	826.4	N/A	25.68	**25.20**
			4183	836.6	N/A	**25.70**	**25.20**
			4233	846.6	N/A	25.63	25.13
	HSDPA	Subtest 1	4132	826.4	0	**24.69**	**24.24**
			4183	836.6	0	**24.69**	24.20
			4233	846.6	0	24.63	24.13
		Subtest 2	4132	826.4	0	24.68	24.23
			4183	836.6	0	24.67	24.19
			4233	846.6	0	24.61	24.12
		Subtest 3	4132	826.4	0.5	24.19	23.74
			4183	836.6	0.5	24.20	23.69
			4233	846.6	0.5	24.14	23.65
		Subtest 4	4132	826.4	0.5	24.20	23.74
			4183	836.6	0.5	24.18	23.70
			4233	846.6	0.5	24.14	23.62
	HSPA (HSDPA & HSUPA)	Subtest 1	4132	826.4	0	24.67	24.20
			4183	836.6	0	24.61	24.17
			4233	846.6	0	24.62	24.09
		Subtest 2	4132	826.4	2	22.68	22.22
			4183	836.6	2	22.23	22.19
			4233	846.6	2	22.62	22.12
		Subtest 3	4132	826.4	1	23.65	23.21
			4183	836.6	1	23.68	23.19
			4233	846.6	1	23.61	23.09
		Subtest 4	4132	826.4	2	22.69	22.22
			4183	836.6	2	22.64	22.18
			4233	846.6	2	22.59	22.10
		Subtest 5	4132	826.4	0	24.24	23.77
			4183	836.6	0	24.24	23.74
			4233	846.6	0	24.16	23.67
	DC-HSDPA	Subtest 1	4132	826.4	0	24.64	24.18
			4183	836.6	0	24.67	24.21
			4233	846.6	0	24.62	24.13
		Subtest 2	4132	826.4	0	24.67	24.22
			4183	836.6	0	24.68	24.20
			4233	846.6	0	24.63	24.14
		Subtest 3	4132	826.4	0.5	24.18	23.73
			4183	836.6	0.5	24.20	23.71
			4233	846.6	0.5	24.13	23.66
		Subtest 4	4132	826.4	0.5	24.19	23.73
			4183	836.6	0.5	24.18	23.70
			4233	846.6	0.5	24.13	23.66

8.2.2. WCDMA BAND 2

Test Engineer ID:	19146	Test Date:	2025-02-06

Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Conducted Average Power (dBm)			
						ANT 1	ANT 2	ANT 3	ANT 4
W-CDMA Band 2 (1900MHz)	Rel 99	RMC, 12.2 kbps	9262	1852.4	N/A	25.66	23.39	25.45	**22.90**
			9400	1880.0	N/A	25.59	23.38	**25.50**	22.80
			9538	1907.6	N/A	**25.70**	**23.40**	25.49	22.83
	HSDPA	Subtest 1	9262	1852.4	0	24.71	22.44	24.49	21.94
			9400	1880.0	0	24.58	22.35	24.51	21.83
			9538	1907.6	0	24.68	22.39	24.47	21.84
		Subtest 2	9262	1852.4	0	24.68	**22.46**	24.48	21.93
			9400	1880.0	0	24.59	22.36	**24.53**	21.83
			9538	1907.6	0	24.69	22.41	24.49	21.84
		Subtest 3	9262	1852.4	0.5	24.20	21.94	23.99	21.43
			9400	1880.0	0.5	24.07	21.87	24.00	21.30
			9538	1907.6	0.5	24.17	21.92	23.95	21.34
		Subtest 4	9262	1852.4	0.5	24.19	21.91	23.96	21.45
			9400	1880.0	0.5	24.09	21.87	23.99	21.29
			9538	1907.6	0.5	24.18	21.84	23.97	21.30
	HSPA (HSDPA & HSUPA)	Subtest 1	9262	1852.4	0	24.70	22.41	24.46	21.95
			9400	1880.0	0	24.54	22.34	24.47	21.80
			9538	1907.6	0	24.63	22.39	24.40	21.83
		Subtest 2	9262	1852.4	2	22.60	20.35	22.40	19.90
			9400	1880.0	2	22.49	20.30	22.39	19.74
			9538	1907.6	2	22.56	20.35	22.34	19.77
		Subtest 3	9262	1852.4	1	23.49	21.38	23.44	20.88
			9400	1880.0	1	23.47	21.29	23.41	20.75
			9538	1907.6	1	23.59	21.33	23.35	20.80
		Subtest 4	9262	1852.4	2	22.66	20.38	22.43	19.93
			9400	1880.0	2	22.50	20.33	22.43	19.79
			9538	1907.6	2	22.59	20.35	22.39	19.80
		Subtest 5	9262	1852.4	0	24.20	21.93	24.03	21.47
			9400	1880.0	0	24.09	21.84	24.03	21.36
			9538	1907.6	0	24.20	21.95	24.01	21.37
	DC-HSDPA	Subtest 1	9262	1852.4	0	24.65	22.42	24.42	21.93
			9400	1880.0	0	24.57	22.37	24.49	21.81
			9538	1907.6	0	24.67	22.40	24.48	21.82
		Subtest 2	9262	1852.4	0	**24.72**	22.45	24.47	**21.97**
			9400	1880.0	0	24.61	22.38	24.52	21.85
			9538	1907.6	0	24.71	22.42	24.47	21.88
		Subtest 3	9262	1852.4	0.5	24.23	21.96	24.00	21.48
			9400	1880.0	0.5	24.11	21.90	24.01	21.35
			9538	1907.6	0.5	24.20	21.92	23.99	21.35
		Subtest 4	9262	1852.4	0.5	24.21	21.95	23.96	21.51
			9400	1880.0	0.5	24.10	21.90	24.03	21.32
			9538	1907.6	0.5	24.17	21.92	23.95	21.33

8.2.3. WCDMA BAND 4

Test Engineer ID:	19146	Test Date:	2025-02-07

Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Conducted Average Power (dBm)			
						ANT 1	ANT 2	ANT 3	ANT 4
W-CDMA Band 4 (1700MHz)	Rel 99	RMC, 12.2 kbps	1312	1712.4	N/A	25.60	23.39	**25.50**	22.74
			1413	1732.6	N/A	**25.70**	**23.40**	25.41	**22.90**
			1513	1752.6	N/A	25.64	23.34	25.15	22.89
	HSDPA	Subtest 1	1312	1712.4	0	24.63	22.40	24.54	21.80
			1413	1732.6	0	24.67	22.41	24.42	21.93
			1513	1752.6	0	24.65	22.35	24.15	21.88
		Subtest 2	1312	1712.4	0	24.64	22.38	24.56	21.79
			1413	1732.6	0	**24.71**	22.40	24.44	**21.94**
			1513	1752.6	0	24.64	22.32	24.18	21.90
		Subtest 3	1312	1712.4	0.5	24.12	21.91	24.10	21.26
			1413	1732.6	0.5	24.20	21.93	23.93	21.45
			1513	1752.6	0.5	24.16	21.86	23.66	21.43
		Subtest 4	1312	1712.4	0.5	24.13	21.93	24.06	21.30
			1413	1732.6	0.5	24.19	21.90	23.92	21.45
			1513	1752.6	0.5	24.13	21.83	23.66	21.42
	HSPA (HSDPA & HSUPA)	Subtest 1	1312	1712.4	0	24.63	**22.42**	24.55	21.78
			1413	1732.6	0	24.67	**22.42**	24.40	**21.94**
			1513	1752.6	0	24.61	22.35	24.11	21.88
		Subtest 2	1312	1712.4	2	22.56	20.34	22.51	19.73
			1413	1732.6	2	22.61	20.36	22.37	19.90
			1513	1752.6	2	22.55	20.27	22.09	19.86
		Subtest 3	1312	1712.4	1	23.61	21.34	23.49	10.84
			1413	1732.6	1	23.59	21.36	23.36	20.89
			1513	1752.6	1	23.60	21.31	23.08	20.85
		Subtest 4	1312	1712.4	2	22.59	20.37	22.51	19.72
			1413	1732.6	2	22.60	20.37	22.36	19.86
			1513	1752.6	2	22.58	20.30	22.04	19.83
		Subtest 5	1312	1712.4	0	24.17	21.91	24.08	21.31
			1413	1732.6	0	24.20	21.93	23.94	21.46
			1513	1752.6	0	24.14	21.86	23.66	21.43
	DC-HSDPA	Subtest 1	1312	1712.4	0	24.60	22.39	24.54	21.75
			1413	1732.6	0	24.70	22.40	24.40	21.91
			1513	1752.6	0	24.61	22.33	24.14	21.86
		Subtest 2	1312	1712.4	0	24.65	22.40	**24.60**	21.79
			1413	1732.6	0	24.70	22.39	24.44	21.93
			1513	1752.6	0	24.63	22.30	24.17	21.90
		Subtest 3	1312	1712.4	0.5	24.14	21.92	24.09	21.30
			1413	1732.6	0.5	24.20	21.93	23.93	21.46
			1513	1752.6	0.5	24.14	21.84	23.65	21.40
		Subtest 4	1312	1712.4	0.5	24.15	21.92	24.11	21.28
			1413	1732.6	0.5	24.19	21.91	23.95	21.46
			1513	1752.6	0.5	24.14	21.84	23.64	21.37

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS132; RSS133; RSS139

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

RESULTS

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was tested.

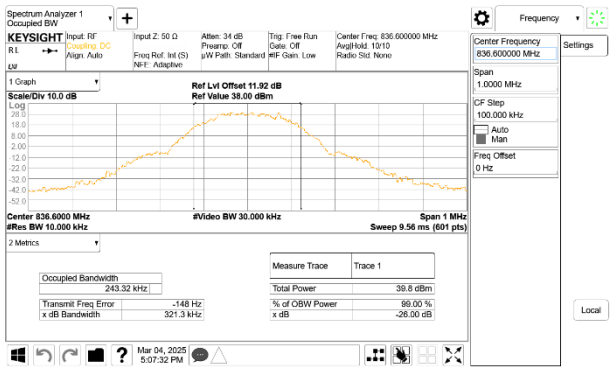
GSM

Band	Modulation	f(MHz)	99% BW (kHz)	-26dB BW (kHz)
850	GPRS	836.6	243.32	321.3
	EGPRS		243.11	311.2
1900	GPRS	1880.0	244.46	316.8
	EGPRS		244.73	311.8

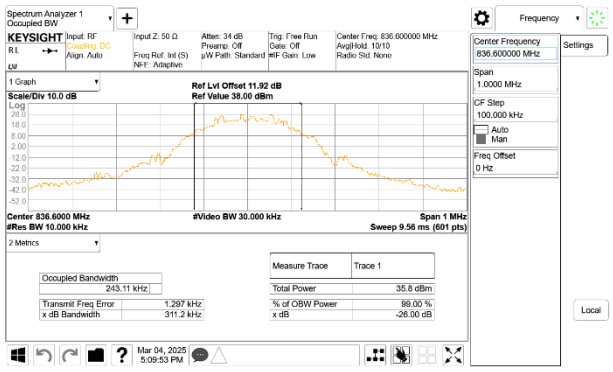
WCDMA

Band	Modulation	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
BAND 5	REL 99	836.6	4.1426	4.678
	HSDPA		4.1300	4.673
BAND 2	REL 99	1880.0	4.1526	4.682
	HSDPA		4.1544	4.709
BAND 4	REL 99	1732.6	4.1482	4.694
	HSDPA		4.1541	4.696

9.1.1. GSM



GSM 850 GPRS Middle Channel ID: 32061



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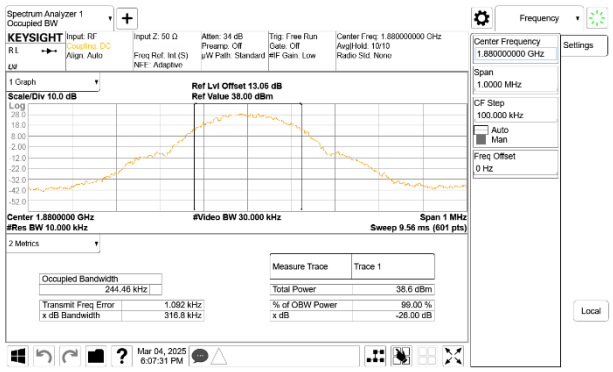

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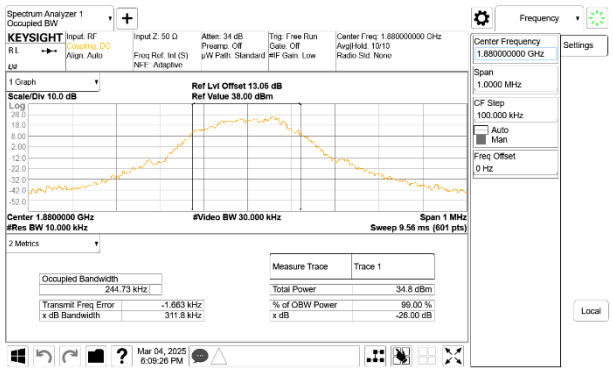

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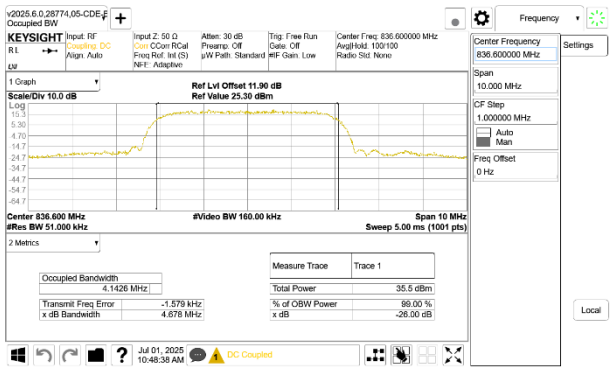
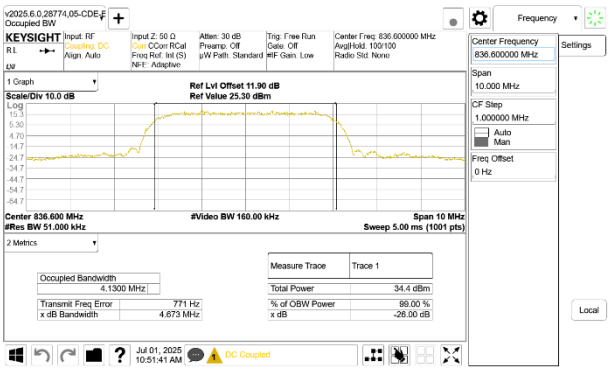
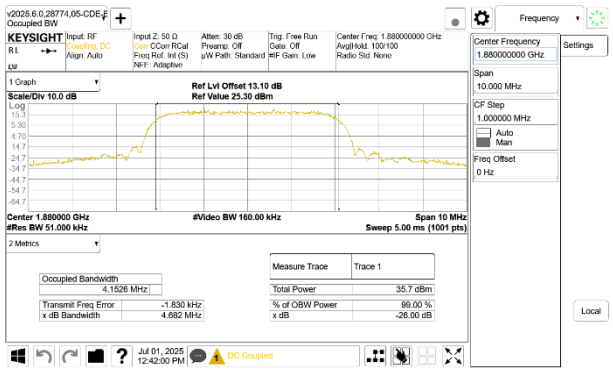
9.1.2. WCDMA



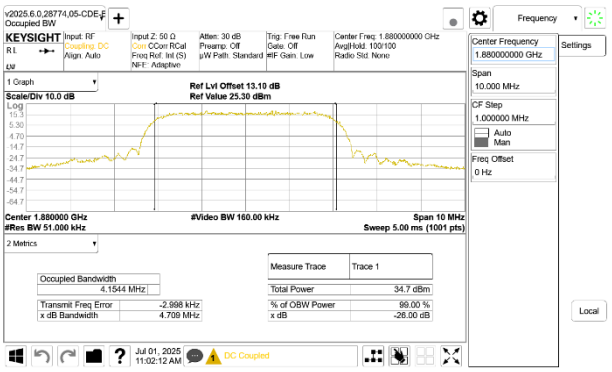
WCDMA Band 5 Rel 99 Middle Channel



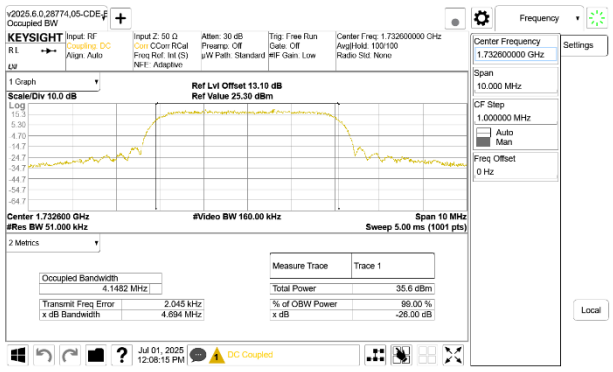
WCDMA Band 5 HSDPA Middle Channel



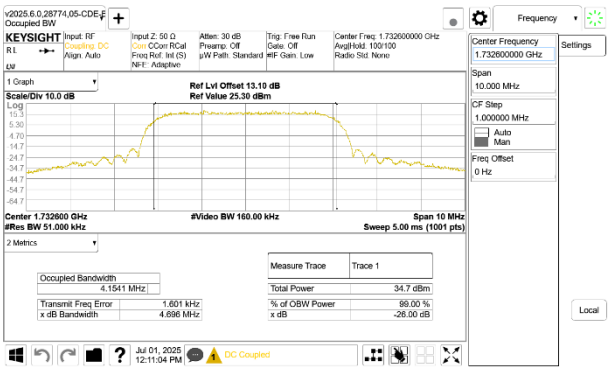
WCDMA Band 2 Rel 99 Middle Channel



WCDMA Band 2 HSDPA Middle Channel



WCDMA Band 4 Rel 99 Middle Channel



WCDMA Band 4 HSDPA Middle Channel

9.2. BAND EDGE AND EMISSION MASK

LIMITS

FCC: §22.917(a), §24.238, §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

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 B*)
> 1 MHz	-13 dBm/MHz

*B is the frequency block or frequency block group.

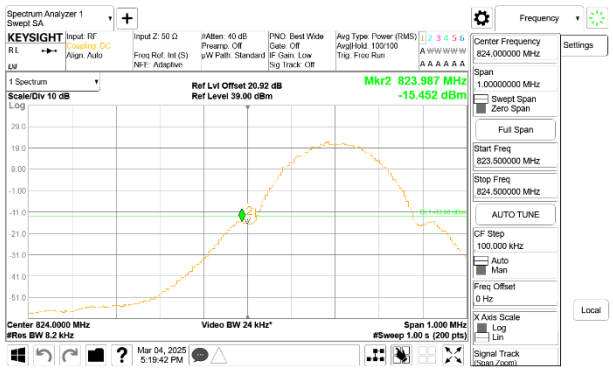
TEST PROCEDURE

The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.
For each band edge measurement:

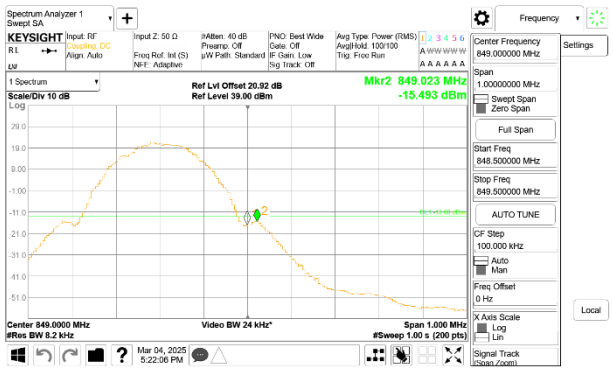
- Set the spectrum analyzer span to include the block edge frequency.
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm
- Set resolution bandwidth to at least 1% of emission bandwidth.

RESULTS

9.2.1. GSM 850



GSM 850 GPRS Low Channel ID: 32061

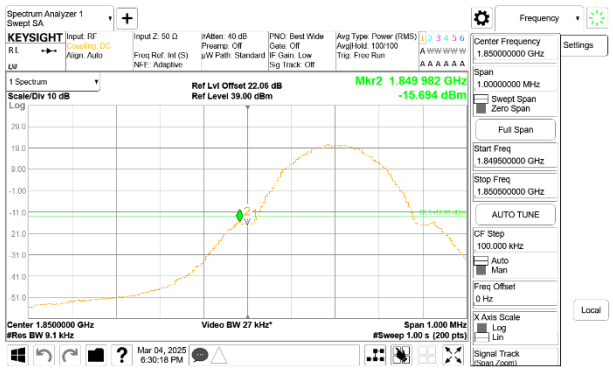


GSM 850 GPRS High Channel ID: 32061

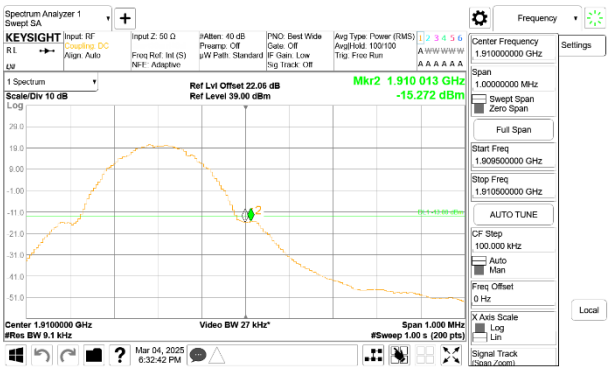
GSM 850 EGPRS Low Channel ID: 32061

GSM 850 EGPRS High Channel ID: 32061

9.2.2. GSM 1900

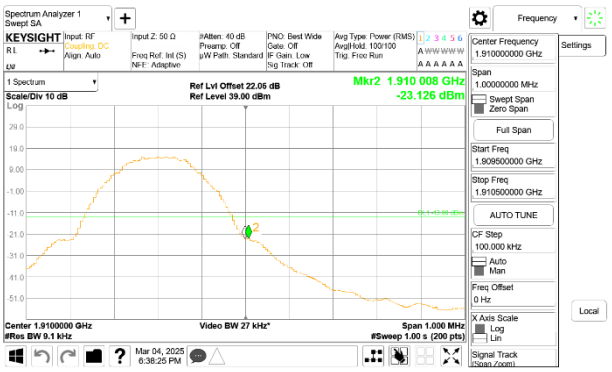


GSM 1900 GPRS Low Channel ID: 32061



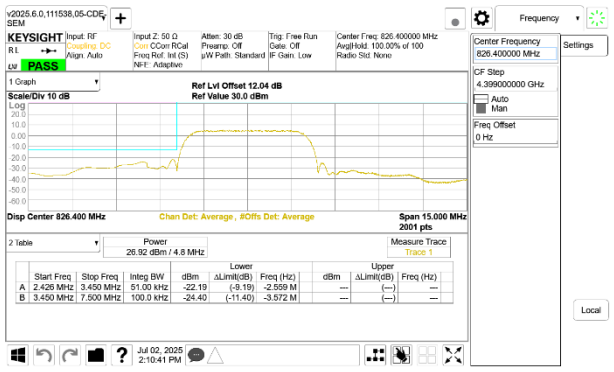
GSM 1900 GPRS High Channel ID: 32061

GSM 1900 EGPRS Low Channel ID: 32061

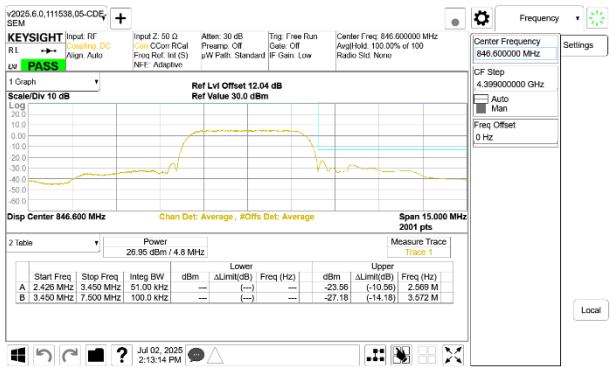


GSM 1900 EGPRS High Channel ID: 32061

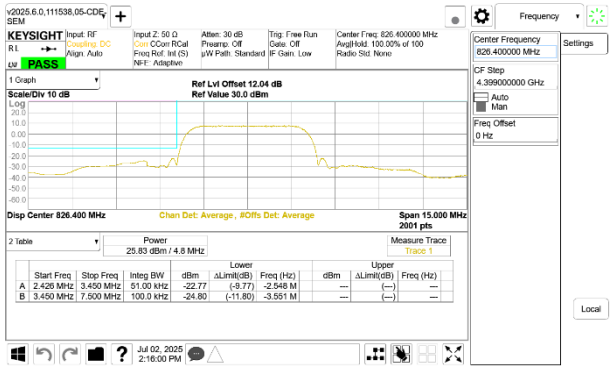
9.2.3. WCDMA BAND 5



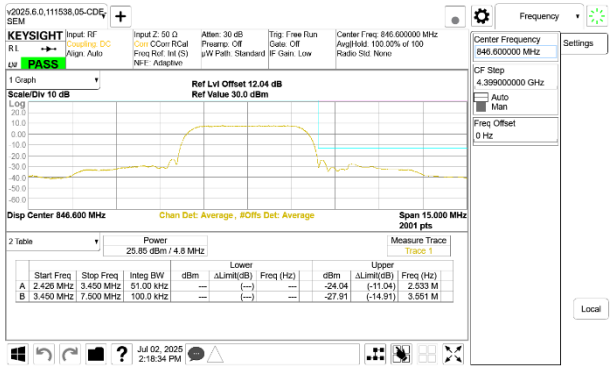
WCDMA Band 5 Rel 99 Low Channel



WCDMA Band 5 Rel 99 High Channel

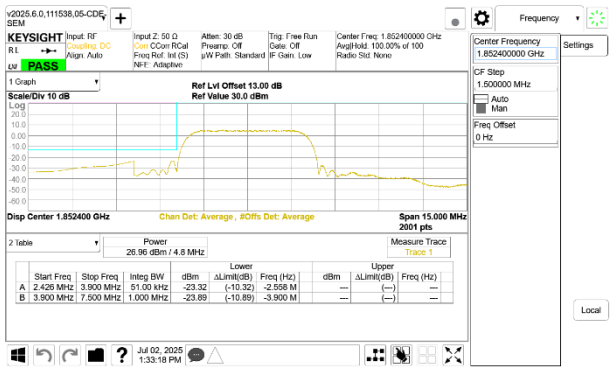


WCDMA Band 5 HSDPA Low Channel

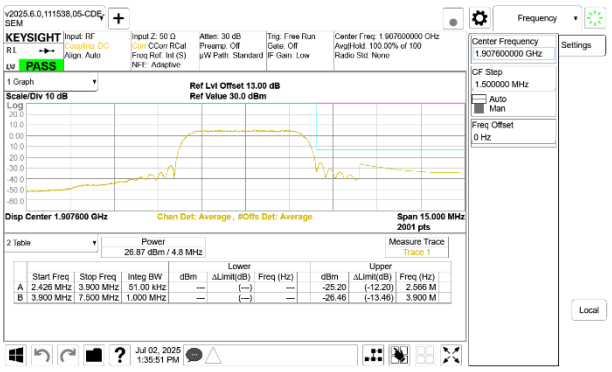


WCDMA Band 5 HSDPA High Channel

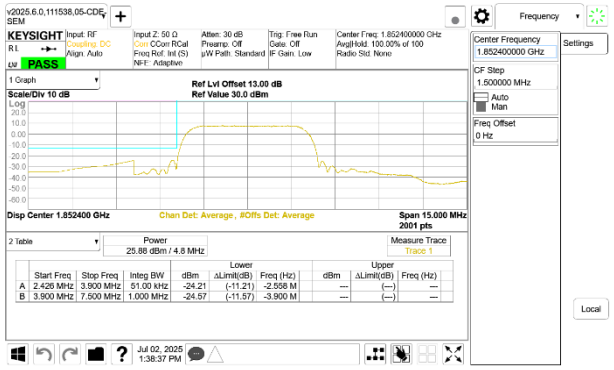
9.2.4. WCDMA BAND 2



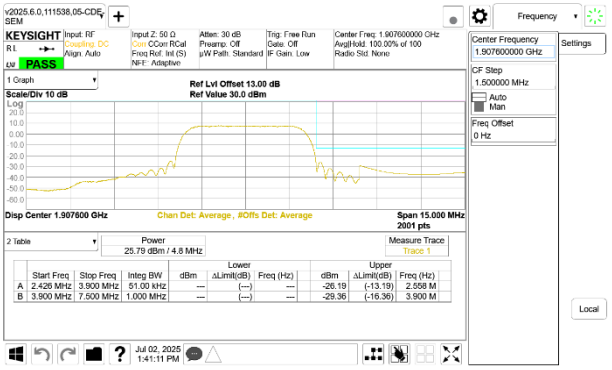
WCDMA Band 2 Rel 99 Low Channel



WCDMA Band 2 Rel 99 High Channel

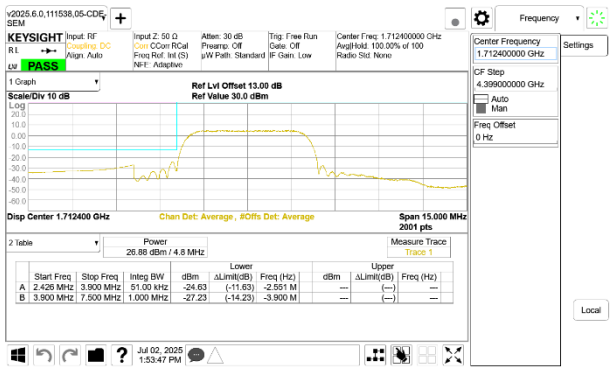


WCDMA Band 2 HSDPA Low Channel

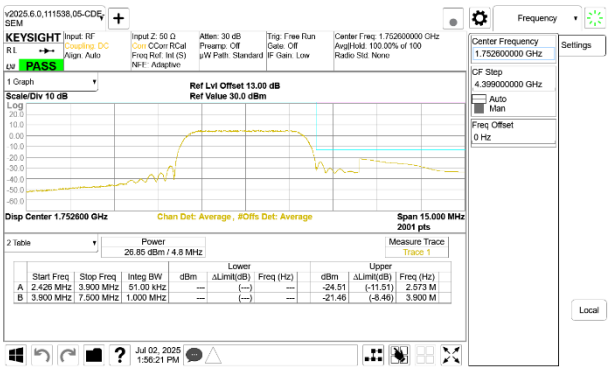


WCDMA Band 2 HSDPA High Channel

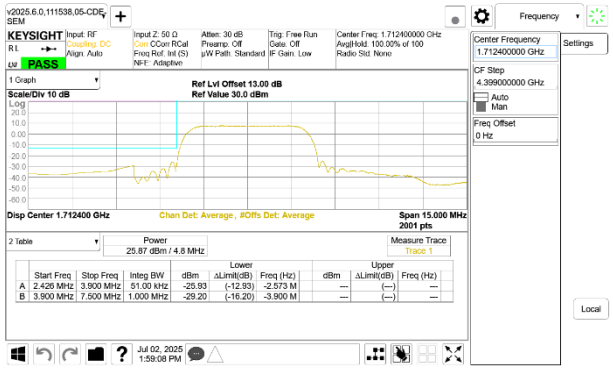
9.2.5. WCDMA BAND 4



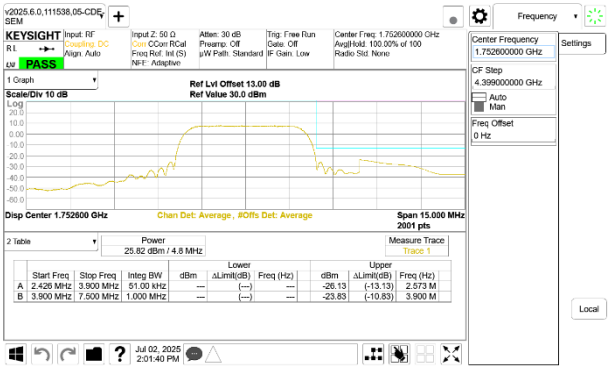
WCDMA Band 4 Rel 99 Low Channel



WCDMA Band 4 Rel 99 High Channel



WCDMA Band 4 HSDPA Low Channel



WCDMA Band 4 HSDPA High Channel

9.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.917, §24.238, and §27.53
ISED: RSS132§5.5; RSS133§6.5 and RSS139§5.6

LIMITS

FCC: §22.917(a), §24.238, §27.53 (h)
The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.

RSS132§5.5, RSS133§5.6, RSS139§5.6
The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.

TEST PROCEDURE

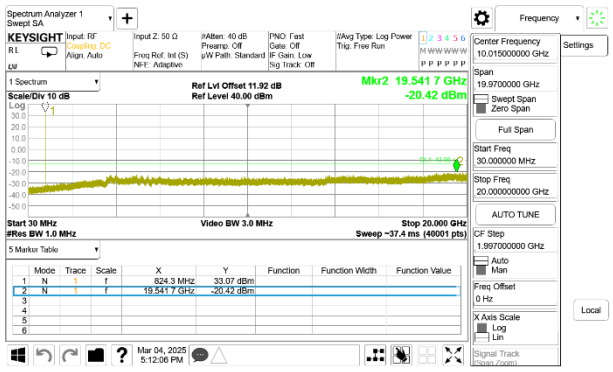
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

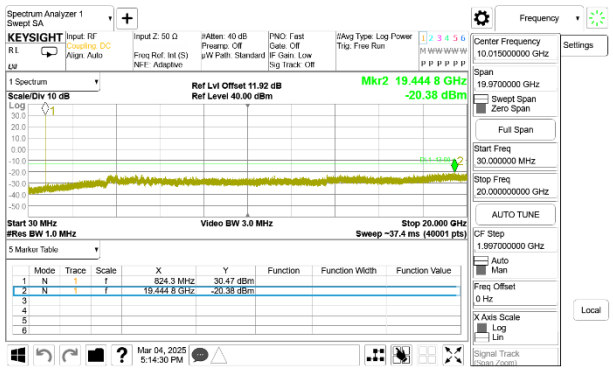
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz. (NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

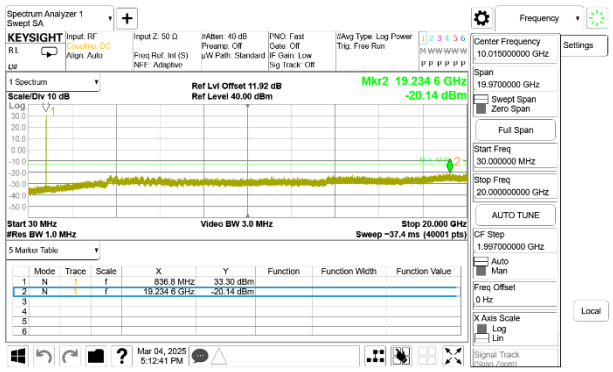
9.3.1. GSM 850



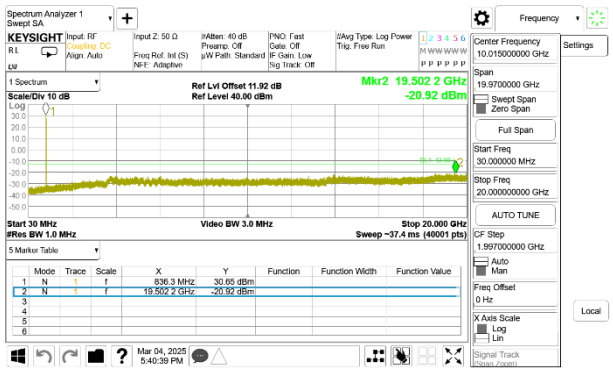
GSM 850 GPRS Low Channel, ID: 32061



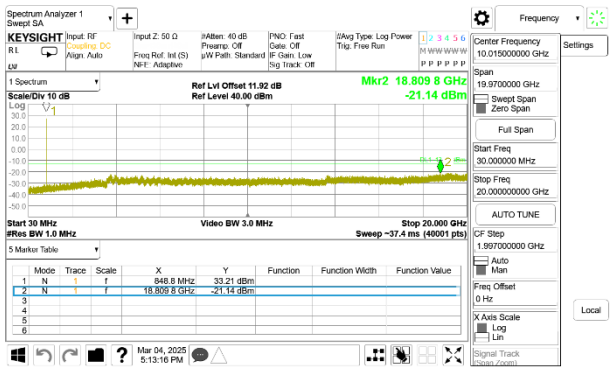
GSM 850 EGPRS Low Channel, ID: 32061



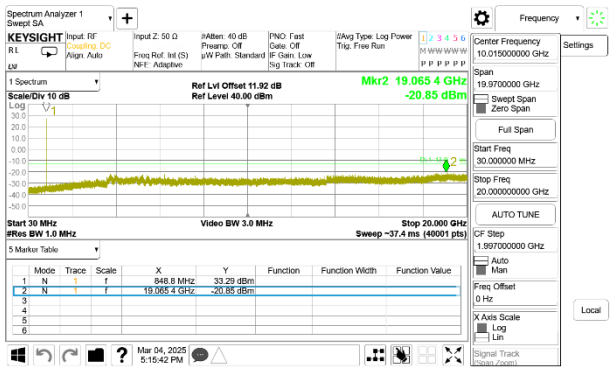
GSM 850 GPRS Middle Channel, ID: 32061



GSM 850 EGPRS Middle Channel, ID: 32061

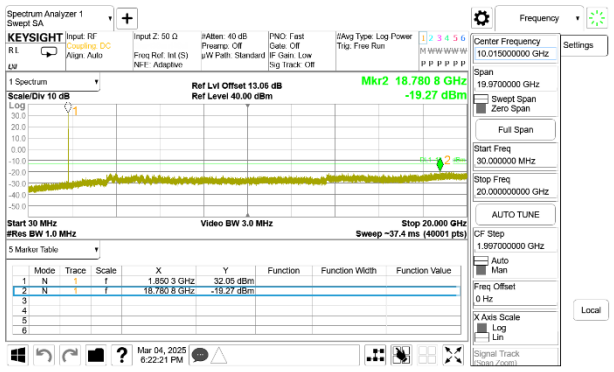


GSM 850 GPRS High Channel, ID: 32061



GSM 850 EGPRS High Channel, ID: 32061

9.3.2. GSM 1900



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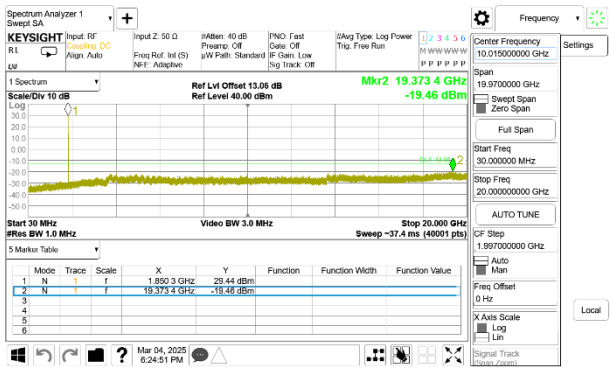

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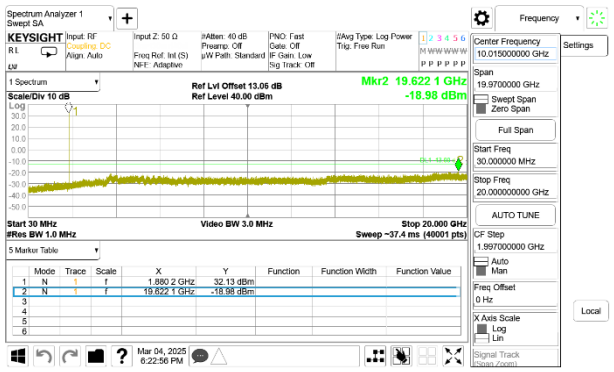

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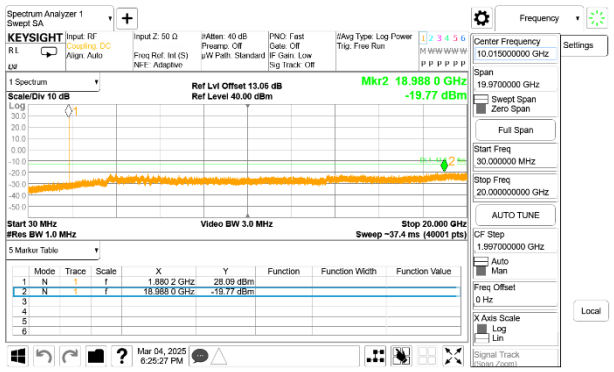

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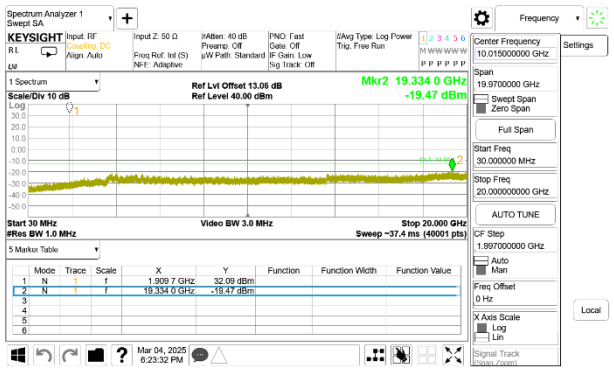
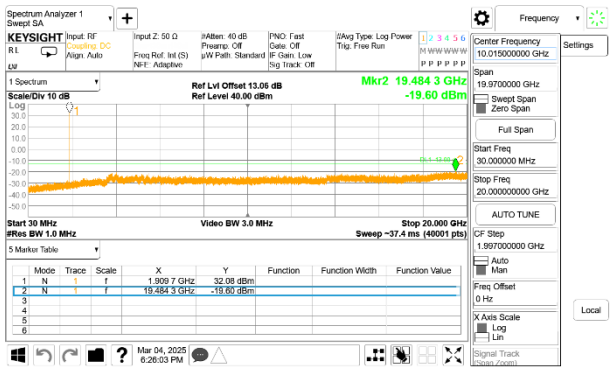
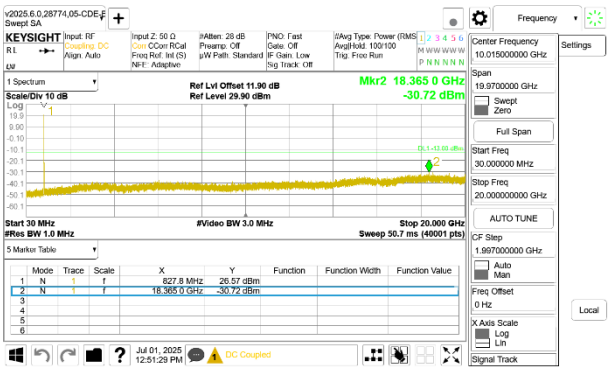


GSM 1900 GPRS High Channel ID: 32061

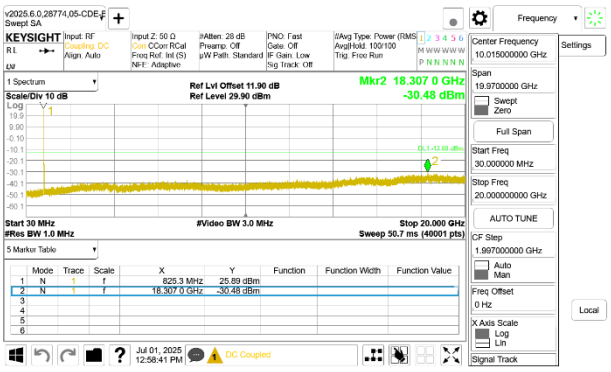


GSM 1900 EGPRS High Channel ID: 32061

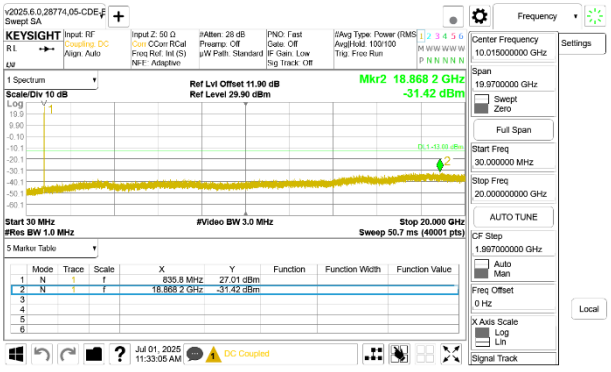
9.3.3. WCDMA BAND 5



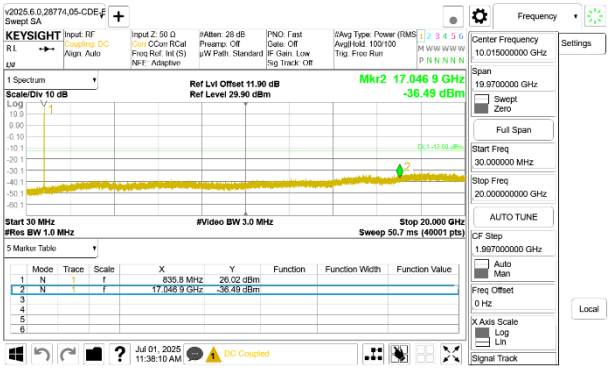
WCDMA Band 5 Rel 99 Low Channel



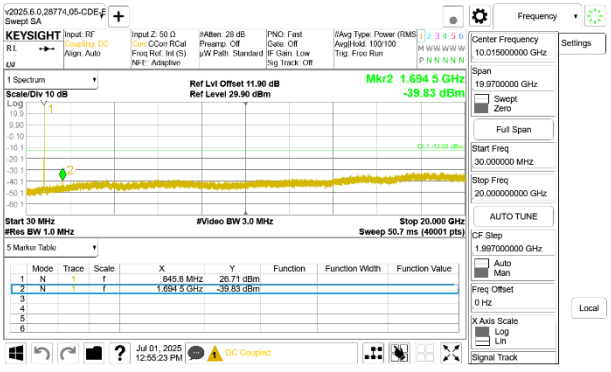
WCDMA Band 5 HSDPA Low Channel



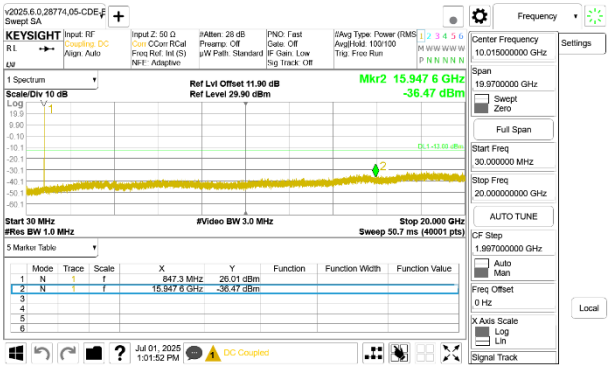
WCDMA Band 5 Rel 99 Middle Channel



WCDMA Band 5 HSDPA Middle Channel

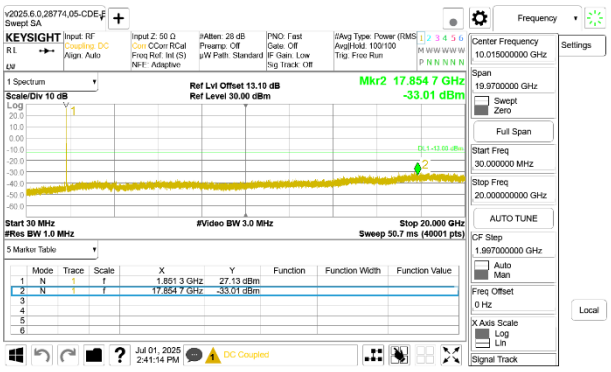


WCDMA Band 5 Rel 99 High Channel

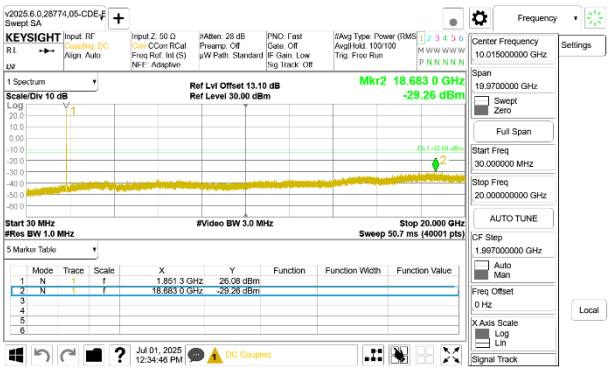


WCDMA Band 5 HSDPA High Channel

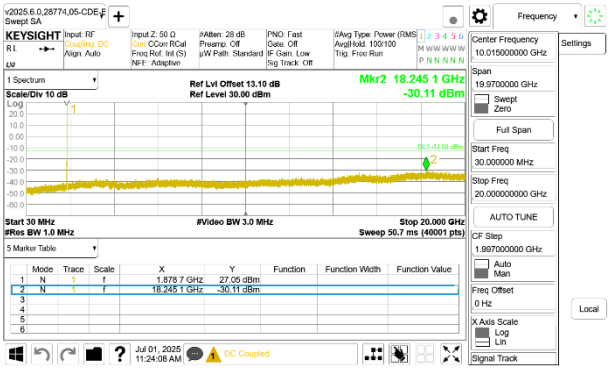
9.3.4. WCDMA BAND 2



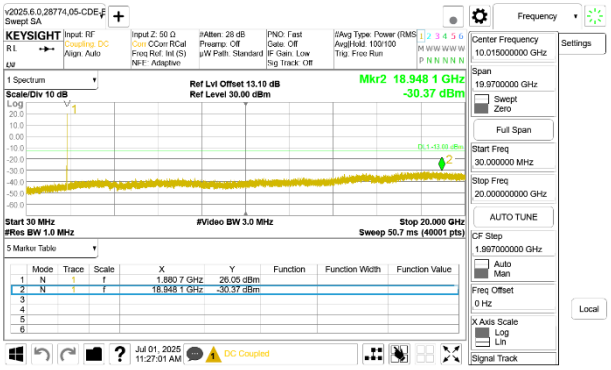
WCDMA Band 2 Rel 99 Low Channel



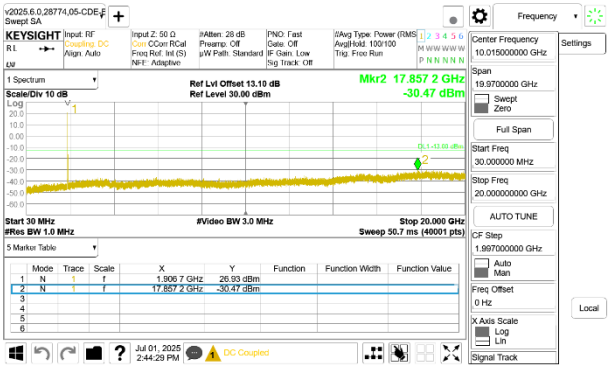
WCDMA Band 2 HSDPA Low Channel



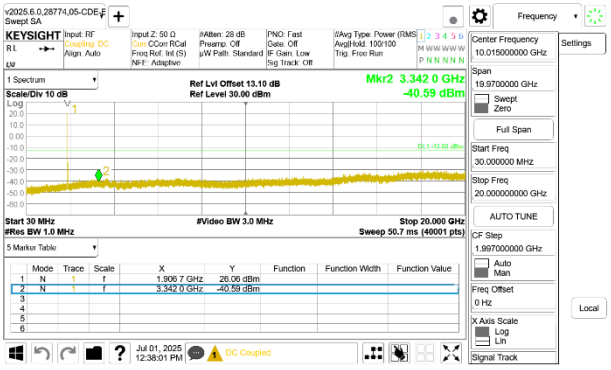
WCDMA Band 2 Rel 99 Middle Channel



WCDMA Band 2 HSDPA Middle Channel

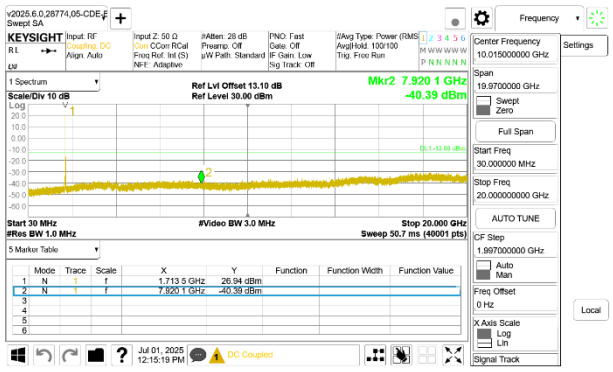


WCDMA Band 2 Rel 99 High Channel

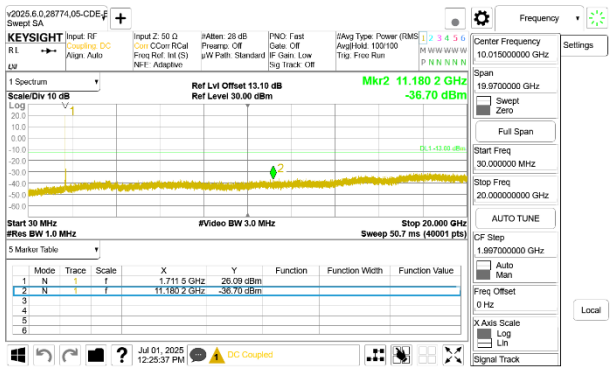


WCDMA Band 2 HSDPA High Channel

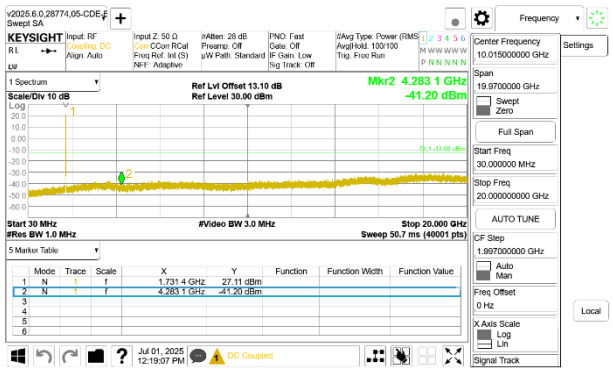
9.3.5. WCDMA BAND 4



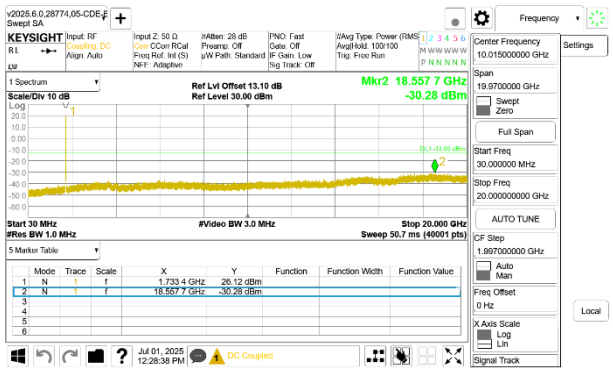
WCDMA Band 4 Rel 99 Low Channel



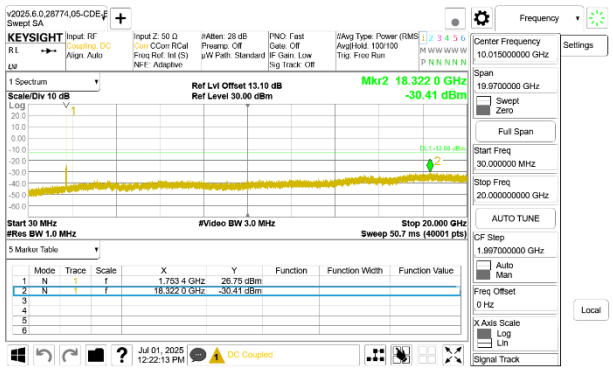
WCDMA Band 4 HSDPA Low Channel



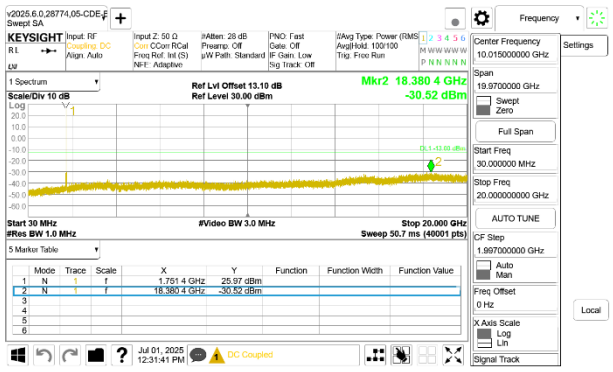
WCDMA Band 4 Rel 99 Middle Channel



WCDMA Band 4 HSDPA Middle Channel



WCDMA Band 4 Rel 99 High Channel



WCDMA Band 4 HSDPA High Channel

9.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, and §27.54
ISED: RSS132§5.3; RSS133§5.4 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 frequency stability shall be sufficient to ensure that the occupied bandwidth stays within each of the sub-bands when tested at the temperature and supply voltage variations specified in RSS-Gen.

RSS133§5.4
The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group 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 or frequency block group when tested to the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = −30°C to +50°C
- Voltage = (85% - 115%)

  Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
  End Voltage, 3.2VDC.

Frequency Stability vs Temperature:
The EUT is place inside a temperature chamber. The temperature is set to 20ºC 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 +50ºC 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:	32546	Test Date:	2025-05-05

GPRS 850

Band	5	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)		824.0103	848.9808			
Extreme (50°C)		824.0103	848.9809	44.8	0.054	Yes
Extreme (40°C)		824.0103	848.9809	37.7	0.045	Yes
Extreme (30°C)		824.0103	848.9809	34.3	0.041	Yes
Extreme (10°C)	Normal	824.0103	848.9809	49.0	0.059	Yes
Extreme (0°C)		824.0103	848.9809	34.8	0.042	Yes
Extreme (-10°C)		824.0103	848.9809	41.3	0.049	Yes
Extreme (-20°C)		824.0103	848.9809	39.2	0.047	Yes
Extreme (-30°C)		824.0103	848.9809	48.8	0.058	Yes
20°C	15%	824.0103	848.9808	27.8	0.033	Yes
	-15%	824.0103	848.9808	20.8	0.025	Yes
	End Point Voltage	824.0103	848.9808	26.2	0.031	Yes

GPRS 1900

Band	2	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910		2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)		1850.0268	1909.9780			
Extreme (50°C)		1850.0268	1909.9780	23.2	0.012	Yes
Extreme (40°C)		1850.0268	1909.9780	22.4	0.012	Yes
Extreme (30°C)		1850.0268	1909.9780	24.3	0.013	Yes
Extreme (10°C)	Normal	1850.0268	1909.9780	24.5	0.013	Yes
Extreme (0°C)		1850.0268	1909.9780	25.6	0.014	Yes
Extreme (-10°C)		1850.0268	1909.9780	35.2	0.019	Yes
Extreme (-20°C)		1850.0268	1909.9780	31.1	0.017	Yes
Extreme (-30°C)		1850.0268	1909.9780	33.3	0.018	Yes
20°C	15%	1850.0268	1909.9780	25.3	0.013	Yes
	-15%	1850.0268	1909.9780	23.0	0.012	Yes
	End Point Voltage	1850.0268	1909.9780	26.2	0.014	Yes

9.4.2. WCDMA

Test Engineer ID:	32546	Test Date:	2025-05-06

WCDMA REL 99 BAND 5

Band	5	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)		824.1221	848.8708			
Extreme (50°C)		824.1221	848.8708	-3.5	-0.004	Yes
Extreme (40°C)		824.1221	848.8708	-4.2	-0.005	Yes
Extreme (30°C)		824.1221	848.8708	6.2	0.007	Yes
Extreme (10°C)	Normal	824.1221	848.8708	-24.8	-0.030	Yes
Extreme (0°C)		824.1221	848.8708	-17.0	-0.020	Yes
Extreme (-10°C)		824.1221	848.8708	4.2	0.005	Yes
Extreme (-20°C)		824.1221	848.8708	-4.7	-0.006	Yes
Extreme (-30°C)		824.1221	848.8708	3.3	0.004	Yes
			.			
20°C	15%	824.1222	848.8708	24.6	0.029	Yes
	-15%	824.1222	848.8708	25.3	0.030	Yes
	End Point Voltage	824.1221	848.8708	-13.3	-0.016	Yes

WCDMA REL 99 BAND 2

Band	2	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910		2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)		1850.1348	1909.8878			
Extreme (50°C)		1850.1348	1909.8878	6.3	0.003	Yes
Extreme (40°C)		1850.1348	1909.8878	5.1	0.003	Yes
Extreme (30°C)		1850.1348	1909.8878	5.7	0.003	Yes
Extreme (10°C)	Normal	1850.1348	1909.8878	7.0	0.004	Yes
Extreme (0°C)		1850.1348	1909.8878	6.7	0.004	Yes
Extreme (-10°C)		1850.1348	1909.8878	10.7	0.006	Yes
Extreme (-20°C)		1850.1348	1909.8878	9.0	0.005	Yes
Extreme (-30°C)		1850.1348	1909.8878	10.7	0.006	Yes
20°C	15%	1850.1348	1909.8878	6.6	0.004	Yes
	-15%	1850.1348	1909.8878	5.8	0.003	Yes
	End Point Voltage	1850.1348	1909.8878	6.2	0.003	Yes

WCDMA REL 99 BAND 4

Band	4	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1755			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	1710.1375	1754.8582			
Extreme (50°C)		1710.1375	1754.8582	-7.2	-0.004	Yes
Extreme (40°C)		1710.1375	1754.8582	-8.0	-0.005	Yes
Extreme (30°C)		1710.1375	1754.8582	-7.1	-0.004	Yes
Extreme (10°C)		1710.1375	1754.8582	-7.0	-0.004	Yes
Extreme (0°C)		1710.1375	1754.8582	-5.9	-0.003	Yes
Extreme (-10°C)		1710.1375	1754.8582	-6.4	-0.004	Yes
Extreme (-20°C)		1710.1375	1754.8582	-5.6	-0.003	Yes
Extreme (-30°C)		1710.1375	1754.8582	-7.1	-0.004	Yes
20°C	15%	1710.1375	1754.8582	-7.3	-0.004	Yes
	-15%	1710.1375	1754.8582	-7.2	-0.004	Yes
	End Point Voltage	1710.1375	1754.8582	-6.4	-0.004	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

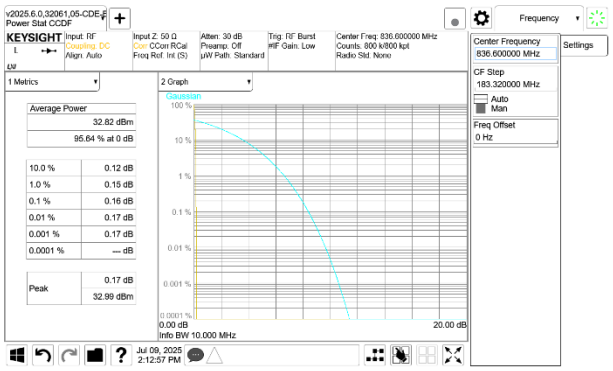
LIMIT

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.

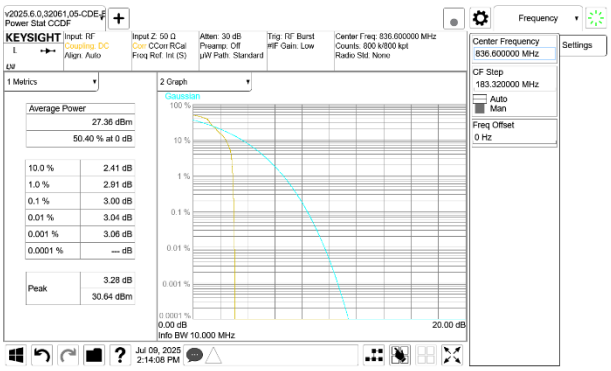
RESULT

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.

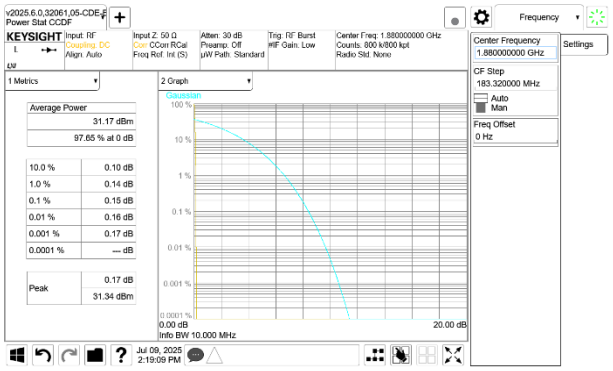
9.5.1. GSM



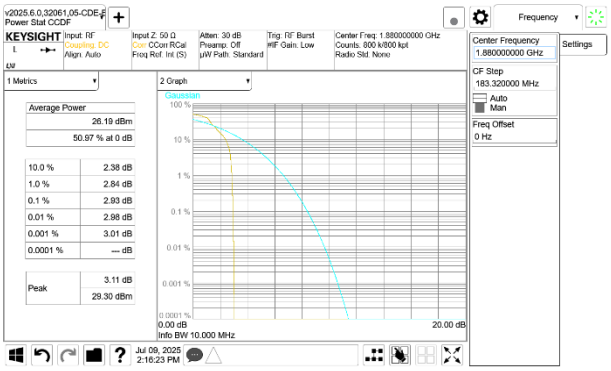
GSM 850 GPRS Middle Channel



GSM 850 EGPRS Middle Channel

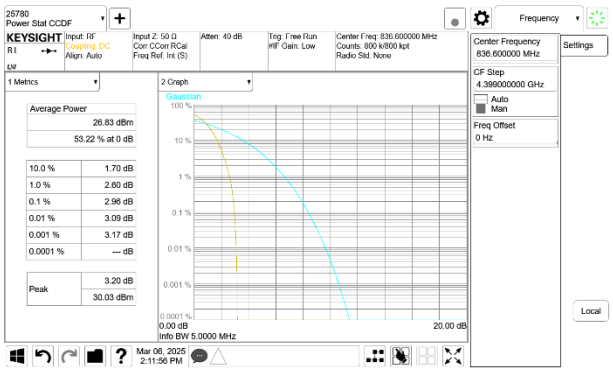


GSM 1900 GPRS Middle Channel

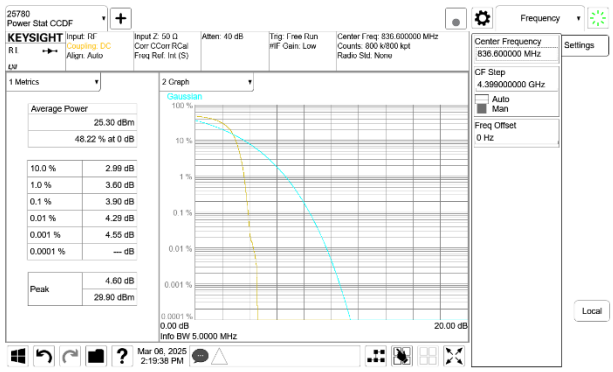


GSM 1900 EGPRS Middle Channel

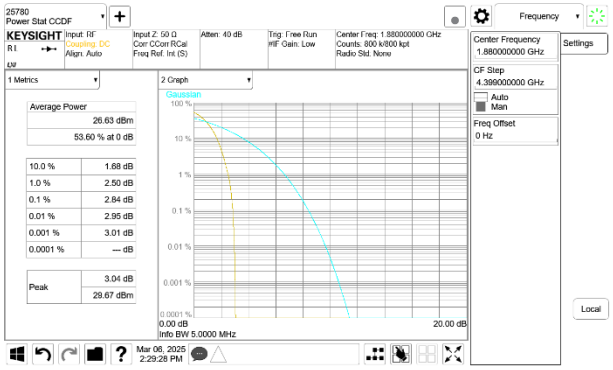
9.5.2. WCDMA



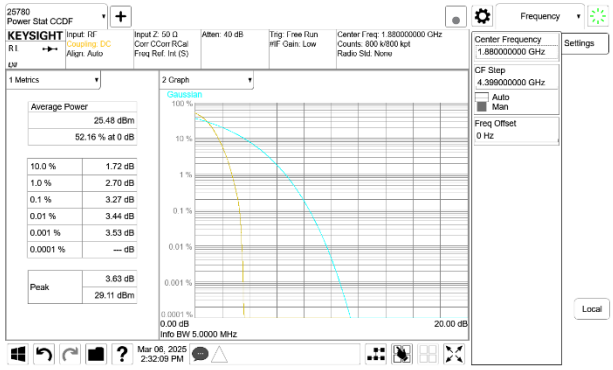
WCDMA Band 5 Rel 99 Middle Channel



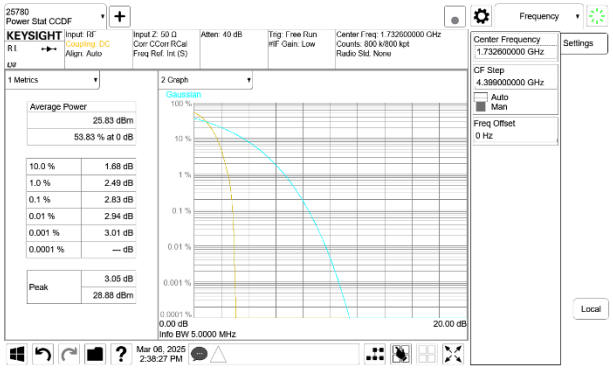
WCDMA Band 5 HSDPA Middle Channel



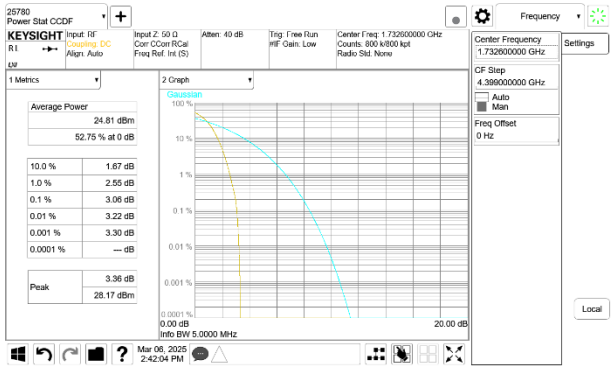
WCDMA Band 2 Rel 99 Middle Channel



WCDMA Band 2 HSDPA Middle Channel



WCDMA Band 4 Rel 99 Middle Channel



WCDMA Band 4 HSDPA Middle Channel

10. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured 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.

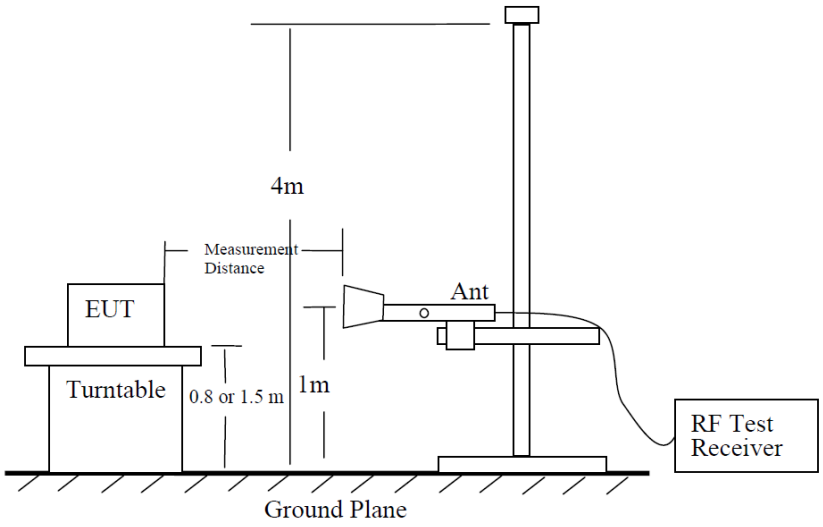


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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

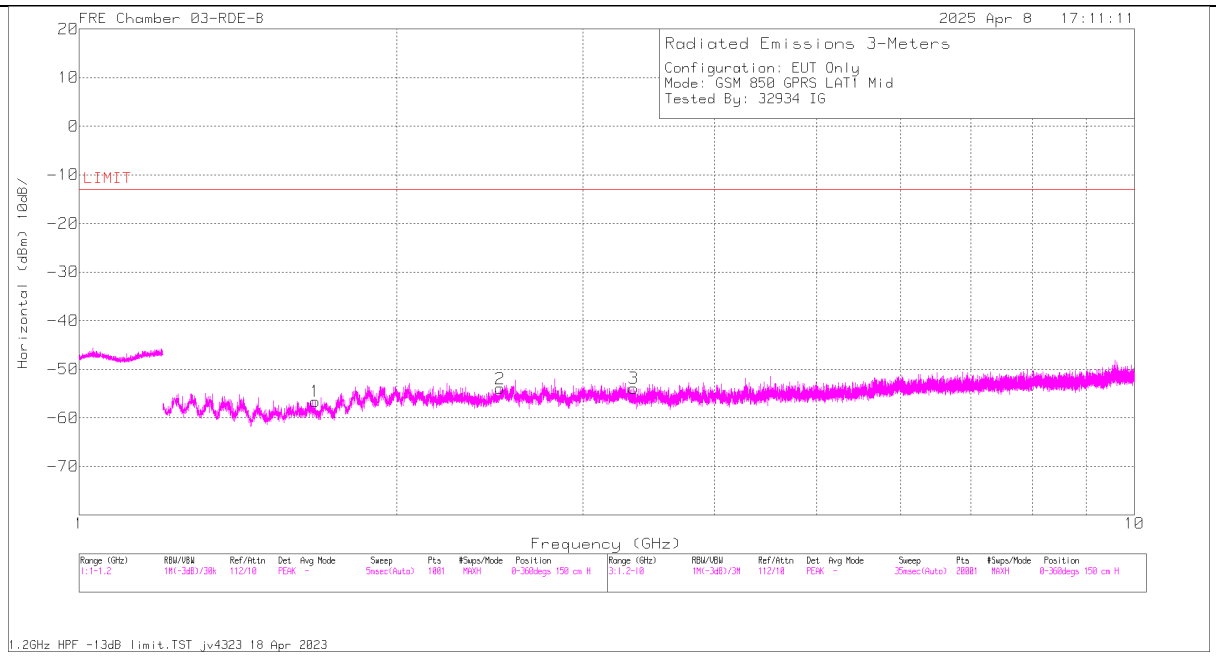
a) E (dBμV/m) = Measured amplitude level (dBμV) + Cable Loss (dB) + Antenna Factor (dB/m).
b) E (dBμV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m).
c) E (dBμV/m) = EIRP (dBm) − 20log(D) + 104.8; where D is the measurement distance (in the far field region) in m.
d) EIRP (dBm) = E (dBμV/m) + 20log(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*Log(3)=9.5424

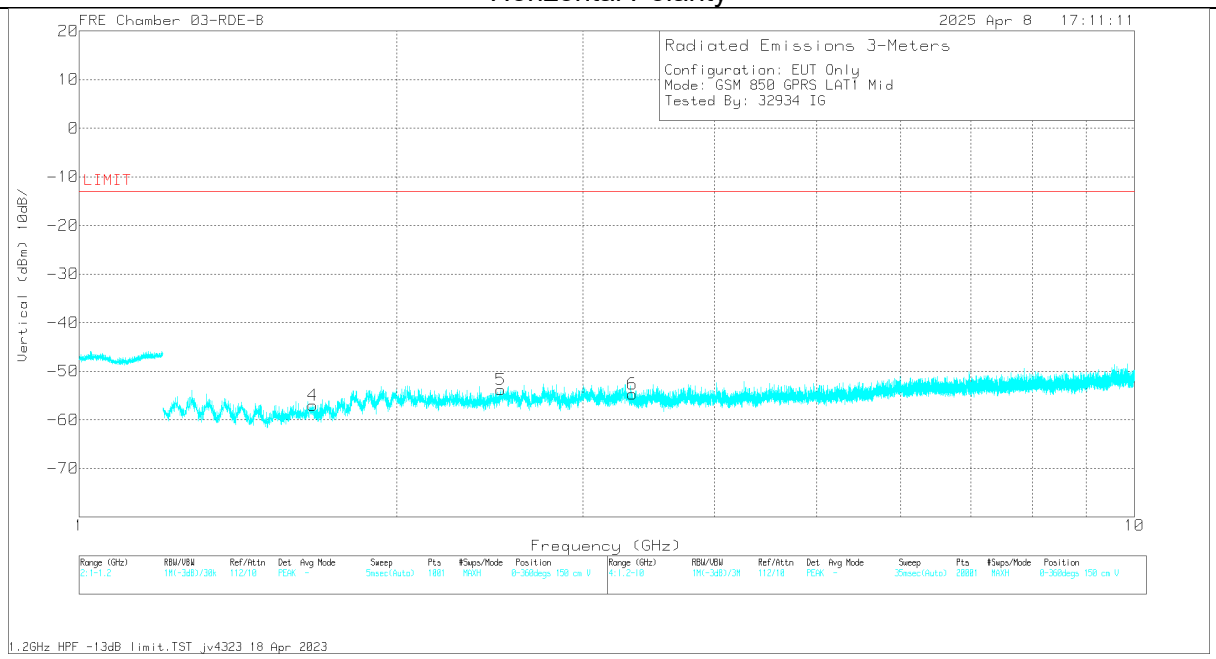
Then, EIRP (dBm) = E (dBμV/m) + 9.5424 − 104.8 = E (dBμV/m) – 95.2576

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

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
1.673440	59.00	Pk	29.0	-95.2	-49.40	-56.60	-13	-43.60	H
1.664640	58.72	Pk	29.0	-95.2	-49.50	-56.98	-13	-43.98	V
2.505920	59.14	Pk	32.0	-95.2	-49.91	-53.97	-13	-40.97	H
2.510320	59.33	Pk	32.0	-95.2	-49.90	-53.77	-13	-40.77	V
3.345880	54.89	Pk	32.7	-95.2	-47.11	-54.72	-13	-41.72	V
3.352480	55.74	Pk	32.7	-95.2	-47.15	-53.91	-13	-40.91	H

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz

RULE PART(S)

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

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 B*)
> 1 MHz	-13 dBm/MHz

*B is the frequency block or frequency block group.

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

10.1.1. GSM 850

GPRS MODE, ANT 1

Project #:	1596282
Date:	2025-05-08
Test Engineer:	32934
Configuration;	EUT Only
Mode:	GSM 850 GPRS
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz									
1.648360	59.03	Pk	28.9	-95.2	-49.40	-56.67	-13	-43.67	V
1.649240	58.98	Pk	28.9	-95.2	-49.40	-56.72	-13	-43.72	H
2.468520	60.06	Pk	31.8	-95.2	-50.15	-53.49	-13	-40.49	H
2.473360	59.98	Pk	31.8	-95.2	-50.10	-53.52	-13	-40.52	V
3.302760	55.76	Pk	32.8	-95.2	-47.32	-53.96	-13	-40.96	H
3.308480	56.55	Pk	32.8	-95.2	-47.40	-53.25	-13	-40.25	V
Mid Channel, 836.6MHz									
1.673440	59.00	Pk	29.0	-95.2	-49.40	-56.60	-13	-43.60	H
1.664640	58.72	Pk	29.0	-95.2	-49.50	-56.98	-13	-43.98	V
2.505920	59.14	Pk	32.0	-95.2	-49.91	-53.97	-13	-40.97	H
2.510320	59.33	Pk	32.0	-95.2	-49.90	-53.77	-13	-40.77	V
3.352480	55.74	Pk	32.7	-95.2	-47.15	-53.91	-13	-40.91	H
3.345880	54.89	Pk	32.7	-95.2	-47.11	-54.72	-13	-41.72	V
High Channel, 848.8MHz									
1.697640	58.47	Pk	29.2	-95.2	-49.50	-57.03	-13	-44.03	H
1.692360	57.29	Pk	29.2	-95.2	-49.50	-58.21	-13	-45.21	V
2.550360	58.85	Pk	32.2	-95.2	-49.60	-53.75	-13	-40.75	H
2.577640	59.69	Pk	32.3	-95.2	-49.34	-52.55	-13	-39.55	V
3.441800	55.04	Pk	32.8	-95.2	-47.70	-55.06	-13	-42.06	V
3.443120	56.75	Pk	32.8	-95.2	-47.59	-53.24	-13	-40.24	H

GPRS MODE, ANT 2

Project #:	1596282
Date:	2025-05-14
Test Engineer:	20756
Configuration;	EUT Only
Mode:	GSM 850 GPRS
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz									
1.658480	58.49	Pk	28.6	-95.2	-49.68	-57.79	-13	-44.79	V
1.659360	59.42	Pk	28.6	-95.2	-49.69	-56.87	-13	-43.87	H
2.470280	59.28	Pk	32.4	-95.2	-49.66	-53.18	-13	-40.18	V
2.471600	58.57	Pk	32.4	-95.2	-49.61	-53.84	-13	-40.84	H
3.293520	56.52	Pk	33.0	-95.2	-47.06	-52.74	-13	-39.74	H
3.297040	56.34	Pk	32.9	-95.2	-47.03	-52.99	-13	-39.99	V
Mid Channel, 836.6MHz									
1.672120	58.09	Pk	28.8	-95.2	-49.55	-57.86	-13	-44.86	V
1.678280	59.06	Pk	28.9	-95.2	-49.49	-56.73	-13	-43.73	H
2.512520	57.93	Pk	32.4	-95.2	-49.34	-54.21	-13	-41.21	V
2.514720	59.54	Pk	32.4	-95.2	-49.34	-52.60	-13	-39.60	H
3.338840	55.53	Pk	32.9	-95.2	-46.62	-53.39	-13	-40.39	V
3.344560	55.74	Pk	32.9	-95.2	-46.72	-53.28	-13	-40.28	H
High Channel, 848.8MHz									
1.697200	59.25	Pk	29.1	-95.2	-49.31	-56.16	-13	-43.16	V
1.704240	59.92	Pk	29.2	-95.2	-49.31	-55.39	-13	-42.39	H
2.555200	58.94	Pk	32.5	-95.2	-49.43	-53.19	-13	-40.19	H
2.557840	58.01	Pk	32.5	-95.2	-49.40	-54.09	-13	-41.09	V
3.389000	56.54	Pk	32.9	-95.2	-47.33	-53.09	-13	-40.09	V
3.395600	56.19	Pk	32.8	-95.2	-47.22	-53.43	-13	-40.43	H

EGPRS MODE, ANT 1

Project #:	15496282
Date:	2025-05-08
Test Engineer:	32934
Configuration;	EUT Only
Mode:	GSM 850 EGPRS
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz									
1.642640	58.91	Pk	28.9	-95.2	-49.40	-56.79	-13	-43.79	V
1.650560	59.38	Pk	28.9	-95.2	-49.40	-56.32	-13	-43.32	H
2.487880	60.37	Pk	31.9	-95.2	-50.01	-52.94	-13	-39.94	V
2.468520	59.60	Pk	31.8	-95.2	-50.15	-53.95	-13	-40.95	H
3.301440	57.30	Pk	32.8	-95.2	-47.40	-52.50	-13	-39.50	H
3.304960	55.87	Pk	32.8	-95.2	-47.30	-53.83	-13	-40.83	V
Mid Channel, 836.6MHz									
1.675640	58.15	Pk	29.0	-95.2	-49.46	-57.51	-13	-44.51	H
1.674320	58.20	Pk	29.0	-95.2	-49.40	-57.40	-13	-44.40	V
2.503720	59.69	Pk	32.0	-95.2	-49.93	-53.44	-13	-40.44	H
2.504160	58.83	Pk	32.0	-95.2	-49.92	-54.29	-13	-41.29	V
3.338840	55.16	Pk	32.7	-95.2	-47.30	-54.64	-13	-41.64	H
3.347200	55.81	Pk	32.7	-95.2	-47.20	-53.89	-13	-40.89	V
High Channel, 848.8MHz									
1.696760	58.04	Pk	29.2	-95.2	-49.50	-57.46	-13	-44.46	H
1.687960	58.49	Pk	29.1	-95.2	-49.40	-57.01	-13	-44.01	V
2.529680	58.48	Pk	32.2	-95.2	-49.70	-54.22	-13	-41.22	V
2.532320	59.35	Pk	32.2	-95.2	-49.70	-53.35	-13	-40.35	H
3.392520	54.60	Pk	32.8	-95.2	-47.20	-55.00	-13	-42.00	V
3.392960	55.54	Pk	32.8	-95.2	-47.20	-54.06	-13	-41.06	H

EGPRS MODE, ANT 2

Project #:	15496282
Date:	2025-05-14
Test Engineer:	20756
Configuration;	EUT Only
Mode:	GSM 850 EGPRS
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 824.2MHz									
1.652760	59.28	Pk	28.5	-95.2	-49.68	-57.10	-13	-44.10	V
1.655400	59.91	Pk	28.6	-95.2	-49.66	-56.35	-13	-43.35	H
2.469840	58.70	Pk	32.4	-95.2	-49.67	-53.77	-13	-40.77	V
2.476000	58.92	Pk	32.4	-95.2	-49.51	-53.39	-13	-40.39	H
3.272400	56.98	Pk	33.0	-95.2	-47.41	-52.63	-13	-39.63	V
3.281200	57.51	Pk	33.0	-95.2	-47.20	-51.89	-13	-38.89	H
Mid Channel, 836.6MHz									
1.664200	59.29	Pk	28.7	-95.2	-49.64	-56.85	-13	-43.85	V
1.666840	59.04	Pk	28.7	-95.2	-49.60	-57.06	-13	-44.06	H
2.503280	59.34	Pk	32.4	-95.2	-49.31	-52.77	-13	-39.77	H
2.504600	57.08	Pk	32.4	-95.2	-49.31	-55.03	-13	-42.03	V
3.331360	57.81	Pk	32.9	-95.2	-46.76	-51.25	-13	-38.25	V
3.341480	55.97	Pk	32.9	-95.2	-46.66	-52.99	-13	-39.99	H
High Channel, 848.8MHz									
1.673449	59.09	Pk	28.8	-95.2	-49.56	-56.87	-13	-43.87	V
1.684889	58.73	Pk	29.0	-95.2	-49.41	-56.88	-13	-43.88	H
2.547289	58.19	Pk	32.5	-95.2	-49.45	-54.05	-13	-41.05	V
2.559169	58.29	Pk	32.5	-95.2	-49.40	-53.81	-13	-40.81	H
3.402299	56.44	Pk	32.8	-95.2	-47.31	-53.27	-13	-40.27	V
3.410129	56.22	Pk	32.8	-95.2	-47.33	-53.51	-13	-40.51	H

10.1.2. GSM 1900

GPRS MODE, ANT 1

Project #:	1596282
Date:	2025-05-08
Test Engineer:	32934
Configuration;	EUT Only
Mode:	GSM 1900 GPRS
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.686000	56.55	Pk	33.0	-95.2	-47.10	-52.75	-13	-39.75	H
3.658500	57.19	Pk	32.8	-95.2	-47.20	-52.41	-13	-39.41	V
5.541500	57.09	Pk	34.4	-95.2	-48.40	-52.11	-13	-39.11	V
5.560000	56.40	Pk	34.4	-95.2	-48.30	-52.7	-13	-39.70	H
7.432500	55.96	Pk	35.7	-95.2	-47.60	-51.14	-13	-38.14	H
7.419500	56.86	Pk	35.6	-95.2	-47.50	-50.24	-13	-37.24	V
Mid Channel, 1880MHz									
3.785500	57.11	Pk	33.2	-95.2	-47.75	-52.64	-13	-39.64	H
3.768500	56.00	Pk	33.1	-95.2	-47.55	-53.65	-13	-40.65	V
5.635500	56.26	Pk	34.5	-95.2	-47.90	-52.34	-13	-39.34	V
5.638000	55.54	Pk	34.5	-95.2	-47.90	-53.06	-13	-40.06	H
7.533000	55.28	Pk	35.7	-95.2	-47.60	-51.82	-13	-38.82	H
7.520500	57.00	Pk	35.7	-95.2	-47.70	-50.20	-13	-37.20	V
High Channel, 1909.8MHz									
3.819000	56.77	Pk	33.2	-95.2	-47.40	-52.63	-13	-39.63	H
3.822000	57.30	Pk	33.3	-95.2	-47.60	-52.20	-13	-39.20	V
5.698000	56.71	Pk	34.5	-95.2	-47.70	-51.69	-13	-38.69	V
5.724000	56.57	Pk	34.6	-95.2	-47.70	-51.73	-13	-38.73	H
7.640000	55.88	Pk	35.8	-95.2	-47.10	-50.62	-13	-37.62	H
7.524500	57.68	Pk	35.7	-95.2	-47.70	-49.52	-13	-36.52	V

GPRS MODE, ANT 2

Project #:	15496282
Date:	2025-05-14
Test Engineer:	20756
Configuration;	EUT Only
Mode:	GSM 1900 GPRS
Chamber #:	05-RDE-D

Frequency (MHz)	Meter Reading (dBuV)	Det	81887 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.718000	56.26	Pk	33.0	-95.2	-47.60	-53.54	-13	-40.54	V
3.728000	56.92	Pk	33.0	-95.2	-47.74	-53.02	-13	-40.02	H
5.544500	57.21	Pk	34.9	-95.2	-47.86	-50.95	-13	-37.95	H
5.551000	56.13	Pk	34.9	-95.2	-47.86	-52.03	-13	-39.03	V
7.419500	56.23	Pk	35.6	-95.2	-47.10	-50.47	-13	-37.47	H
7.441500	55.38	Pk	35.6	-95.2	-46.96	-51.18	-13	-38.18	V
Mid Channel, 1880MHz									
3.748500	56.96	Pk	33.0	-95.2	-47.56	-52.80	-13	-39.80	V
3.765000	56.10	Pk	33.1	-95.2	-47.45	-53.45	-13	-40.45	H
5.618500	56.37	Pk	35.0	-95.2	-47.59	-51.42	-13	-38.42	V
5.630500	56.81	Pk	35.0	-95.2	-47.56	-50.95	-13	-37.95	H
7.512500	54.81	Pk	35.6	-95.2	-46.84	-51.63	-13	-38.63	V
7.539000	55.12	Pk	35.6	-95.2	-46.80	-51.28	-13	-38.28	H
High Channel, 1909.8MHz									
3.823000	56.39	Pk	33.3	-95.2	-47.49	-53.00	-13	-40.00	H
3.830000	55.69	Pk	33.4	-95.2	-47.58	-53.69	-13	-40.69	V
5.732500	55.43	Pk	35.1	-95.2	-47.11	-51.78	-13	-38.78	V
5.754500	55.50	Pk	35.1	-95.2	-46.90	-51.50	-13	-38.50	H
7.621500	55.83	Pk	35.7	-95.2	-46.96	-50.63	-13	-37.63	H
7.623000	55.82	Pk	35.7	-95.2	-46.89	-50.57	-13	-37.57	V

GPRS MODE, ANT 3

Project #:	15496282
Date:	2025-05-28
Test Engineer:	32934
Configuration;	EUT Only
Mode:	GSM 1900 GPRS
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.668500	56.34	Pk	32.9	-95.2	-47.00	-52.96	-13	-39.96	V
3.717000	55.72	Pk	33.0	-95.2	-47.20	-53.68	-13	-40.68	H
5.492500	55.70	Pk	34.4	-95.2	-48.35	-53.45	-13	-40.45	V
5.543500	56.66	Pk	34.4	-95.2	-48.35	-52.49	-13	-39.49	H
7.411000	54.93	Pk	35.6	-95.2	-47.60	-52.27	-13	-39.27	V
7.419500	55.42	Pk	35.6	-95.2	-47.50	-51.68	-13	-38.68	H
Mid Channel, 1880MHz									
3.742000	55.99	Pk	33.1	-95.2	-47.50	-53.61	-13	-40.61	V
3.749000	55.60	Pk	33.1	-95.2	-47.60	-54.10	-13	-41.10	H
5.637000	55.80	Pk	34.5	-95.2	-47.90	-52.80	-13	-39.80	V
5.649000	56.81	Pk	34.5	-95.2	-47.90	-51.79	-13	-38.79	H
7.507000	55.59	Pk	35.7	-95.2	-47.80	-51.71	-13	-38.71	V
7.512000	56.94	Pk	35.7	-95.2	-47.80	-50.36	-13	-37.36	H
High Channel, 1909.8MHz									
3.804000	56.21	Pk	33.2	-95.2	-47.60	-53.39	-13	-40.39	V
3.819500	56.51	Pk	33.3	-95.2	-47.45	-52.84	-13	-39.84	H
5.722500	56.99	Pk	34.6	-95.2	-47.70	-51.31	-13	-38.31	V
5.726500	55.96	Pk	34.6	-95.2	-47.70	-52.34	-13	-39.34	H
7.635000	56.22	Pk	35.7	-95.2	-47.10	-50.38	-13	-37.38	H
7.676000	56.00	Pk	35.8	-95.2	-47.40	-50.80	-13	-37.80	V

GPRS MODE, ANT 4

Project #:	15496282
Date:	2025-05-18
Test Engineer:	23522
Configuration;	EUT Only
Mode:	GSM 1900 GPRS
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.700500	52.07	Pk	33.1	-95.2	-46.26	-56.29	-13	-43.29	H
3.700500	52.48	Pk	33.1	-95.2	-46.26	-55.88	-13	-42.88	V
5.500500	55.29	Pk	34.3	-95.2	-48.02	-53.63	-13	-40.63	H
5.500500	54.54	Pk	34.3	-95.2	-48.02	-54.38	-13	-41.38	V
7.401000	52.66	Pk	35.7	-95.2	-46.75	-53.59	-13	-40.59	H
7.401000	54.53	Pk	35.7	-95.2	-46.75	-51.72	-13	-38.72	V
Mid Channel, 1880MHz									
3.760500	54.60	Pk	33.4	-95.2	-47.20	-54.40	-13	-41.40	H
3.760500	53.79	Pk	33.4	-95.2	-47.20	-55.21	-13	-42.21	V
5.640000	54.96	Pk	34.4	-95.2	-47.20	-53.04	-13	-40.04	H
5.640000	52.85	Pk	34.4	-95.2	-47.20	-55.15	-13	-42.15	V
7.520000	53.46	Pk	35.8	-95.2	-46.10	-52.04	-13	-39.04	H
7.520000	52.78	Pk	35.8	-95.2	-46.10	-52.72	-13	-39.72	V
High Channel, 1909.8MHz									
3.819500	54.30	Pk	33.5	-95.2	-46.90	-54.30	-13	-41.30	H
3.819500	53.68	Pk	33.5	-95.2	-46.90	-54.92	-13	-41.92	V
5.729500	53.48	Pk	34.6	-95.2	-46.70	-53.82	-13	-40.82	H
5.729500	53.59	Pk	34.6	-95.2	-46.70	-53.71	-13	-40.71	V
7.639500	52.22	Pk	35.9	-95.2	-45.05	-52.13	-13	-39.13	H
7.639500	53.35	Pk	35.9	-95.2	-45.05	-51.00	-13	-38.00	V

EGPRS MODE, ANT 1

Project #:	15496282
Date:	2025-05-08
Test Engineer:	32934
Configuration;	EUT Only
Mode:	GSM 1900 EGPRS
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.706500	57.26	Pk	33.0	-95.2	-47.05	-51.99	-13	-38.99	H
3.664000	56.91	Pk	32.8	-95.2	-47.00	-52.49	-13	-39.49	V
5.532000	56.98	Pk	34.4	-95.2	-48.30	-52.12	-13	-39.12	V
5.542000	56.44	Pk	34.4	-95.2	-48.40	-52.76	-13	-39.76	H
7.462500	56.98	Pk	35.7	-95.2	-47.80	-50.32	-13	-37.32	H
7.438000	55.41	Pk	35.7	-95.2	-47.60	-51.69	-13	-38.69	V
Mid Channel, 1880MHz									
3.770500	56.40	Pk	33.1	-95.2	-47.65	-53.35	-13	-40.35	H
3.737500	55.47	Pk	33.1	-95.2	-47.20	-53.83	-13	-40.83	V
5.607000	56.76	Pk	34.4	-95.2	-48.10	-52.14	-13	-39.14	V
5.651000	55.40	Pk	34.5	-95.2	-47.90	-53.20	-13	-40.20	H
7.519500	56.31	Pk	35.7	-95.2	-47.70	-50.89	-13	-37.89	H
7.508000	56.81	Pk	35.7	-95.2	-47.80	-50.49	-13	-37.49	V
High Channel, 1909.8MHz									
3.795500	56.13	Pk	33.2	-95.2	-47.55	-53.42	-13	-40.42	H
3.813000	56.41	Pk	33.2	-95.2	-47.40	-52.99	-13	-39.99	V
5.687000	55.91	Pk	34.5	-95.2	-47.90	-52.69	-13	-39.69	H
5.713000	56.75	Pk	34.6	-95.2	-47.70	-51.55	-13	-38.55	V
7.611500	55.88	Pk	35.7	-95.2	-46.85	-50.47	-13	-37.47	H
7.626500	55.49	Pk	35.7	-95.2	-46.90	-50.91	-13	-37.91	V

EGPRS MODE, ANT 2

Project #:	15496282
Date:	2025-05-11
Test Engineer:	32545
Configuration;	EUT Only
Mode:	GSM 1900 EGPRS
Chamber #:	05-RDE-D

Frequency (MHz)	Meter Reading (dBuV)	Det	81887 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.687000	56.13	Pk	33.0	-95.2	-47.60	-53.67	-13	-40.67	H
3.711000	56.25	Pk	33.0	-95.2	-47.74	-53.69	-13	-40.69	V
5.544500	55.95	Pk	34.9	-95.2	-47.86	-52.21	-13	-39.21	V
5.558500	56.54	Pk	34.9	-95.2	-47.84	-51.60	-13	-38.60	H
7.387000	55.39	Pk	35.6	-95.2	-47.02	-51.23	-13	-38.23	V
7.408500	56.78	Pk	35.6	-95.2	-47.12	-49.94	-13	-36.94	H
Mid Channel, 1880MHz									
3.761500	55.92	Pk	33.1	-95.2	-47.45	-53.63	-13	-40.63	V
3.780500	57.35	Pk	33.2	-95.2	-47.42	-52.07	-13	-39.07	H
5.534000	57.41	Pk	34.8	-95.2	-47.83	-50.82	-13	-37.82	H
5.557500	56.47	Pk	34.9	-95.2	-47.88	-51.71	-13	-38.71	V
7.521000	55.61	Pk	35.6	-95.2	-46.84	-50.83	-13	-37.83	V
7.527000	55.27	Pk	35.6	-95.2	-46.82	-51.15	-13	-38.15	H
High Channel, 1909.8MHz									
3.805000	56.58	Pk	33.2	-95.2	-47.45	-52.87	-13	-39.87	V
3.827500	56.19	Pk	33.4	-95.2	-47.60	-53.21	-13	-40.21	H
5.740000	55.27	Pk	35.1	-95.2	-46.98	-51.81	-13	-38.81	V
5.747500	56.87	Pk	35.1	-95.2	-47.05	-50.28	-13	-37.28	H
7.635500	55.18	Pk	35.7	-95.2	-46.81	-51.13	-13	-38.13	H
7.648000	54.88	Pk	35.7	-95.2	-46.69	-51.31	-13	-38.31	V

EGPRS MODE, ANT 3

Project #:	15496282
Date:	2025-05-28
Test Engineer:	32934
Configuration;	EUT Only
Mode:	GSM 1900 EGPRS
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.692000	54.73	Pk	33.0	-95.2	-46.90	-54.37	-13	-41.37	V
3.703500	55.41	Pk	33.0	-95.2	-46.95	-53.74	-13	-40.74	H
5.534000	56.09	Pk	34.4	-95.2	-48.30	-53.01	-13	-40.01	V
5.556500	57.36	Pk	34.4	-95.2	-48.30	-51.74	-13	-38.74	H
7.416500	55.15	Pk	35.6	-95.2	-47.60	-52.05	-13	-39.05	V
3.692000	54.73	Pk	33.0	-95.2	-46.9	-54.37	-13	-41.37	V
Mid Channel, 1880MHz									
3.808500	57.01	Pk	33.2	-95.2	-47.50	-52.49	-13	-39.49	V
3.816000	57.66	Pk	33.2	-95.2	-47.60	-51.94	-13	-38.94	H
5.580500	55.82	Pk	34.4	-95.2	-48.30	-53.28	-13	-40.28	V
5.592500	57.66	Pk	34.4	-95.2	-48.10	-51.24	-13	-38.24	H
7.521000	55.72	Pk	35.7	-95.2	-47.70	-51.48	-13	-38.48	H
7.560500	54.95	Pk	35.7	-95.2	-47.25	-51.80	-13	-38.80	V
High Channel, 1909.8MHz									
3.813000	56.25	Pk	33.2	-95.2	-47.40	-53.15	-13	-40.15	V
3.818000	57.08	Pk	33.2	-95.2	-47.50	-52.42	-13	-39.42	H
5.725000	55.92	Pk	34.6	-95.2	-47.70	-52.38	-13	-39.38	V
5.738500	55.93	Pk	34.6	-95.2	-47.75	-52.42	-13	-39.42	H
7.625500	55.08	Pk	35.7	-95.2	-46.90	-51.32	-13	-38.32	V
7.632000	54.98	Pk	35.7	-95.2	-47.00	-51.52	-13	-38.52	H

EGPRS MODE, ANT 4

Project #:	15496282
Date:	2025-05-17
Test Engineer:	23522
Configuration;	EUT Only
Mode:	GSM 1900 EGPRS
Chamber #:	04-RDE-P

Frequency (MHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1850.2MHz									
3.700500	51.83	Pk	33.1	-95.2	-46.26	-56.53	-13	-43.53	H
3.700500	52.98	Pk	33.1	-95.2	-46.26	-55.38	-13	-42.38	V
5.550500	53.83	Pk	34.3	-95.2	-47.80	-54.87	-13	-41.87	H
5.550500	53.19	Pk	34.3	-95.2	-47.80	-55.51	-13	-42.51	V
7.400500	53.08	Pk	35.7	-95.2	-46.74	-53.16	-13	-40.16	H
7.400500	53.16	Pk	35.7	-95.2	-46.74	-53.08	-13	-40.08	V
Mid Channel, 1880MHz									
3.760000	52.96	Pk	33.3	-95.2	-46.11	-55.05	-13	-42.05	H
3.760000	52.61	Pk	33.3	-95.2	-46.11	-55.40	-13	-42.40	V
5.640000	55.47	Pk	34.4	-95.2	-47.54	-52.87	-13	-39.87	H
5.640000	53.82	Pk	34.4	-95.2	-47.54	-54.52	-13	-41.52	V
7.540500	53.71	Pk	35.7	-95.2	-47.37	-53.16	-13	-40.16	H
7.540500	55.85	Pk	35.7	-95.2	-47.37	-51.02	-13	-38.02	V
High Channel, 1909.8MHz									
3.919500	53.26	Pk	33.4	-95.2	-46.52	-55.06	-13	-42.06	H
3.919500	53.25	Pk	33.4	-95.2	-46.52	-55.07	-13	-42.07	V
5.730000	53.13	Pk	34.5	-95.2	-47.01	-54.58	-13	-41.58	H
5.730000	55.17	Pk	34.5	-95.2	-47.01	-52.54	-13	-39.54	V
7.639000	53.75	Pk	35.8	-95.2	-46.68	-52.33	-13	-39.33	H
7.639000	52.92	Pk	35.8	-95.2	-46.68	-53.16	-13	-40.16	V

10.1.3. WCDMA BAND 5

REL 99 MODE, ANT 1

Project #:	15496282
Date:	2025-07-13
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 5
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.654520	58.64	Pk	29.0	-95.2	-49.40	-56.96	-13	-43.96	V
1.655400	59.18	Pk	29.0	-95.2	-49.34	-56.36	-13	-43.36	H
2.471600	60.12	Pk	31.8	-95.2	-50.14	-53.42	-13	-40.42	H
2.479080	58.94	Pk	31.9	-95.2	-50.10	-54.46	-13	-41.46	V
3.301440	56.46	Pk	32.8	-95.2	-47.40	-53.34	-13	-40.34	V
3.305840	56.42	Pk	32.8	-95.2	-47.30	-53.28	-13	-40.28	H
Mid Channel, 836.6MHz									
1.671680	59.13	Pk	29.0	-95.2	-49.40	-56.47	-13	-43.47	H
1.673440	58.57	Pk	29.0	-95.2	-49.40	-57.03	-13	-44.03	V
2.499760	59.43	Pk	32.0	-95.2	-50.02	-53.79	-13	-40.79	V
3.350280	55.84	Pk	32.7	-95.2	-47.20	-53.86	-13	-40.86	H
2.510760	59.84	Pk	32.0	-95.2	-49.90	-53.26	-13	-40.26	H
3.327840	56.81	Pk	32.8	-95.2	-47.30	-52.89	-13	-39.89	V
High Channel, 846.6MHz									
1.695000	58.76	Pk	29.2	-95.2	-49.50	-56.74	-13	-43.74	H
1.695440	58.70	Pk	29.2	-95.2	-49.50	-56.80	-13	-43.80	V
2.544640	59.23	Pk	32.2	-95.2	-49.66	-53.43	-13	-40.43	H
2.544640	58.98	Pk	32.2	-95.2	-49.66	-53.68	-13	-40.68	V
3.390320	55.46	Pk	32.8	-95.2	-47.30	-54.24	-13	-41.24	H
3.403520	54.82	Pk	32.8	-95.2	-47.35	-54.93	-13	-41.93	V

REL 99 MODE, ANT 2

Project #:	15496282
Date:	2025-05-21
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 5
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.652760	57.02	Pk	28.4	-95.2	-49.08	-58.86	-13	-45.86	H
1.652760	57.58	Pk	28.4	-95.2	-49.08	-58.30	-13	-45.30	V
2.479080	57.71	Pk	32.2	-95.2	-49.19	-54.48	-13	-41.48	H
2.479080	57.61	Pk	32.2	-95.2	-49.19	-54.58	-13	-41.58	V
3.305840	54.07	Pk	32.8	-95.2	-47.10	-55.43	-13	-42.43	H
3.305840	54.12	Pk	32.8	-95.2	-47.10	-55.38	-13	-42.38	V
Mid Channel, 836.6MHz									
1.673440	57.40	Pk	28.7	-95.2	-49.10	-58.20	-13	-45.20	H
1.673440	58.73	Pk	28.7	-95.2	-49.10	-56.87	-13	-43.87	V
2.509880	56.08	Pk	32.2	-95.2	-49.10	-56.02	-13	-43.02	H
2.509880	56.44	Pk	32.2	-95.2	-49.10	-55.66	-13	-42.66	V
3.346320	54.20	Pk	32.8	-95.2	-46.77	-54.97	-13	-41.97	H
3.346320	55.43	Pk	32.8	-95.2	-46.77	-53.74	-13	-40.74	V
High Channel, 846.6MHz									
1.693240	57.39	Pk	28.9	-95.2	-49.00	-57.91	-13	-44.91	H
1.693240	57.49	Pk	28.9	-95.2	-49.00	-57.81	-13	-44.81	V
2.539800	56.98	Pk	32.2	-95.2	-48.88	-54.90	-13	-41.90	H
2.539800	56.52	Pk	32.2	-95.2	-48.88	-55.36	-13	-42.36	V
3.386360	53.06	Pk	32.8	-95.2	-46.46	-55.80	-13	-42.80	H
3.386360	52.90	Pk	32.8	-95.2	-46.46	-55.96	-13	-42.96	V

HSDPA MODE, ANT 1

Project #:	15496282
Date:	2025-07-13
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 5
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.653200	59.65	Pk	28.9	-95.2	-49.42	-56.07	-13	-43.07	V
1.658040	58.67	Pk	29.0	-95.2	-49.40	-56.93	-13	-43.93	H
2.461920	59.55	Pk	31.8	-95.2	-50.11	-53.96	-13	-40.96	V
2.476000	59.19	Pk	31.9	-95.2	-50.10	-54.21	-13	-41.21	H
3.308920	56.83	Pk	32.8	-95.2	-47.40	-52.97	-13	-39.97	H
3.310240	56.16	Pk	32.8	-95.2	-47.30	-53.54	-13	-40.54	V
Mid Channel, 836.6MHz									
1.675640	57.92	Pk	29.0	-95.2	-49.46	-57.74	-13	-44.74	H
1.672120	58.46	Pk	29.0	-95.2	-49.40	-57.14	-13	-44.14	V
3.355120	55.25	Pk	32.7	-95.2	-47.19	-54.44	-13	-41.44	V
2.524840	59.53	Pk	32.1	-95.2	-49.70	-53.27	-13	-40.27	V
2.527920	60.39	Pk	32.1	-95.2	-49.80	-52.51	-13	-39.51	H
3.345440	54.92	Pk	32.7	-95.2	-47.16	-54.74	-13	-41.74	H
High Channel, 846.6MHz									
1.692360	58.24	Pk	29.2	-95.2	-49.50	-57.26	-13	-44.26	H
1.691920	59.06	Pk	29.2	-95.2	-49.50	-56.44	-13	-43.44	V
2.534960	58.61	Pk	32.2	-95.2	-49.60	-53.99	-13	-40.99	H
2.538480	58.89	Pk	32.2	-95.2	-49.60	-53.71	-13	-40.71	V
3.389000	54.75	Pk	32.7	-95.2	-47.40	-55.15	-13	-42.15	H
3.395600	55.10	Pk	32.8	-95.2	-47.34	-54.64	-13	-41.64	V

HSDPA MODE, ANT 2

Project #:	15496282
Date:	2025-04-17
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 5
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 826.4MHz									
1.677242	61.02	Pk	28.7	-95.2	-49.10	-54.58	-13	-41.58	H
1.656253	60.43	Pk	28.5	-95.2	-49.00	-55.27	-13	-42.27	V
2.335553	60.11	Pk	32.0	-95.2	-49.30	-52.39	-13	-39.39	H
2.322877	60.33	Pk	31.9	-95.2	-49.30	-52.27	-13	-39.27	V
3.298360	56.29	Pk	32.8	-95.2	-47.10	-53.21	-13	-40.21	V
3.301440	55.80	Pk	32.8	-95.2	-46.90	-53.5	-13	-40.50	H
Mid Channel, 836.6MHz									
1.678280	59.63	Pk	28.7	-95.2	-49.07	-55.94	-13	-42.94	H
1.674505	65.48	Pk	28.7	-95.2	-49.10	-50.12	-13	-37.12	V
2.516040	58.10	Pk	32.2	-95.2	-49.00	-53.90	-13	-40.90	H
2.524840	58.32	Pk	32.2	-95.2	-48.98	-53.66	-13	-40.66	V
3.343240	55.54	Pk	32.8	-95.2	-46.82	-53.68	-13	-40.68	H
3.352040	55.44	Pk	32.8	-95.2	-46.80	-53.76	-13	-40.76	V
High Channel, 846.6MHz									
1.691609	64.14	Pk	28.9	-95.2	-49.06	-51.22	-13	-38.22	V
1.717394	60.37	Pk	29.2	-95.2	-48.76	-54.39	-13	-41.39	H
2.542880	58.19	Pk	32.2	-95.2	-48.81	-53.62	-13	-40.62	V
2.545960	58.86	Pk	32.2	-95.2	-48.80	-52.94	-13	-39.94	H
3.380640	54.67	Pk	32.8	-95.2	-46.30	-54.03	-13	-41.03	H
3.396040	54.81	Pk	32.8	-95.2	-46.51	-54.10	-13	-41.10	V

10.1.1. WCDMA BAND 2

REL 99 MODE, ANT 1

Project #:	15496282
Date:	2025-05-16
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 2
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.714500	56.76	Pk	33.3	-95.2	-47.30	-52.44	-13	-39.44	H
3.720000	56.15	Pk	33.3	-95.2	-47.40	-53.15	-13	-40.15	V
5.545500	55.07	Pk	34.4	-95.2	-47.40	-53.13	-13	-40.13	V
5.561500	56.12	Pk	34.4	-95.2	-47.20	-51.88	-13	-38.88	H
7.386500	55.27	Pk	35.8	-95.2	-45.65	-49.78	-13	-36.78	H
7.392500	54.10	Pk	35.8	-95.2	-45.70	-51.00	-13	-38.00	V
Mid Channel, 1880MHz									
3.741500	55.37	Pk	33.4	-95.2	-47.10	-53.53	-13	-40.53	V
3.754000	55.85	Pk	33.4	-95.2	-47.10	-53.05	-13	-40.05	H
5.631000	54.53	Pk	34.4	-95.2	-47.10	-53.37	-13	-40.37	V
5.637500	54.62	Pk	34.4	-95.2	-47.10	-53.28	-13	-40.28	H
7.520000	55.07	Pk	35.8	-95.2	-46.10	-50.43	-13	-37.43	V
7.531000	54.85	Pk	35.9	-95.2	-45.90	-50.35	-13	-37.35	H
High Channel, 1907.6MHz									
3.863500	55.46	Pk	33.5	-95.2	-47.00	-53.24	-13	-40.24	V
3.879500	56.55	Pk	33.5	-95.2	-47.15	-52.30	-13	-39.30	H
5.717000	54.58	Pk	34.6	-95.2	-47.00	-53.02	-13	-40.02	V
5.726500	55.81	Pk	34.6	-95.2	-46.85	-51.64	-13	-38.64	H
7.328000	56.04	Pk	35.8	-95.2	-45.80	-49.16	-13	-36.16	V
7.698000	55.62	Pk	35.9	-95.2	-45.60	-49.28	-13	-36.28	H

REL 99 MODE, ANT 2

Project #:	15496282
Date:	2025-05-16
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 2
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.698500	55.72	Pk	33.2	-95.2	-47.20	-53.48	-13	-40.48	H
3.704000	56.27	Pk	33.2	-95.2	-47.20	-52.93	-13	-39.93	V
5.561000	55.78	Pk	34.4	-95.2	-47.20	-52.22	-13	-39.22	H
5.568500	56.36	Pk	34.4	-95.2	-47.25	-51.69	-13	-38.69	V
7.410000	54.45	Pk	35.8	-95.2	-45.90	-50.85	-13	-37.85	H
7.436000	54.76	Pk	35.8	-95.2	-46.30	-50.94	-13	-37.94	V
Mid Channel, 1880MHz									
3.773000	56.00	Pk	33.4	-95.2	-47.00	-52.80	-13	-39.80	H
3.781000	55.50	Pk	33.4	-95.2	-46.90	-53.20	-13	-40.20	V
5.619500	55.93	Pk	34.4	-95.2	-47.10	-51.97	-13	-38.97	V
5.637500	54.49	Pk	34.4	-95.2	-47.10	-53.41	-13	-40.41	H
7.522000	55.15	Pk	35.8	-95.2	-46.00	-50.25	-13	-37.25	H
7.561000	55.52	Pk	35.9	-95.2	-45.40	-49.18	-13	-36.18	V
High Channel, 1907.6MHz									
3.834500	56.33	Pk	33.5	-95.2	-46.85	-52.22	-13	-39.22	H
3.850500	54.94	Pk	33.5	-95.2	-47.00	-53.76	-13	-40.76	V
5.720000	55.01	Pk	34.6	-95.2	-47.00	-52.59	-13	-39.59	V
5.722500	56.27	Pk	34.6	-95.2	-46.80	-51.13	-13	-38.13	H
7.613500	54.39	Pk	35.9	-95.2	-44.90	-49.81	-13	-36.81	V
7.636500	53.70	Pk	35.9	-95.2	-45.00	-50.60	-13	-37.60	H

REL 99 MODE, ANT 3

Project #:	15496282
Date:	2025-05-18
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 2
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.705000	54.73	Pk	33.2	-95.2	-47.30	-54.57	-13	-41.57	H
3.705000	54.10	Pk	33.2	-95.2	-47.30	-55.20	-13	-42.20	V
5.557500	53.61	Pk	34.4	-95.2	-47.35	-54.54	-13	-41.54	H
5.557500	53.52	Pk	34.4	-95.2	-47.35	-54.63	-13	-41.63	V
7.409500	52.73	Pk	35.8	-95.2	-45.90	-52.57	-13	-39.57	H
7.409500	52.21	Pk	35.8	-95.2	-45.90	-53.09	-13	-40.09	V
Mid Channel, 1880MHz									
3.760000	53.42	Pk	33.4	-95.2	-47.20	-55.58	-13	-42.58	H
3.760000	53.80	Pk	33.4	-95.2	-47.20	-55.20	-13	-42.20	V
7.520500	53.68	Pk	35.8	-95.2	-46.05	-51.77	-13	-38.77	H
7.520500	53.75	Pk	35.8	-95.2	-46.05	-51.70	-13	-38.70	V
5.640000	53.42	Pk	34.4	-95.2	-47.20	-54.58	-13	-41.58	H
5.640000	53.01	Pk	34.4	-95.2	-47.20	-54.99	-13	-41.99	V
High Channel, 1907.6MHz									
3.815000	53.48	Pk	33.5	-95.2	-46.90	-55.12	-13	-42.12	H
3.815000	53.27	Pk	33.5	-95.2	-46.90	-55.33	-13	-42.33	V
5.722500	54.31	Pk	34.6	-95.2	-46.80	-53.09	-13	-40.09	H
5.722500	53.86	Pk	34.6	-95.2	-46.80	-53.54	-13	-40.54	V
7.630500	53.33	Pk	35.9	-95.2	-44.90	-50.87	-13	-37.87	H
7.630500	51.05	Pk	35.9	-95.2	-44.90	-53.15	-13	-40.15	V

REL 99 MODE, ANT 4

Project #:	15496282
Date:	2025-05-18
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 2
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.704500	54.07	Pk	33.2	-95.2	-47.25	-55.18	-13	-42.18	H
3.704500	55.79	Pk	33.2	-95.2	-47.25	-53.46	-13	-40.46	V
5.557500	53.75	Pk	34.4	-95.2	-47.35	-54.40	-13	-41.40	H
5.557500	53.69	Pk	34.4	-95.2	-47.35	-54.46	-13	-41.46	V
7.409500	52.12	Pk	35.8	-95.2	-45.90	-53.18	-13	-40.18	H
7.409500	53.94	Pk	35.8	-95.2	-45.90	-51.36	-13	-38.36	V
Mid Channel, 1880MHz									
3.760500	52.99	Pk	33.4	-95.2	-47.20	-56.01	-13	-43.01	H
3.760500	54.41	Pk	33.4	-95.2	-47.20	-54.59	-13	-41.59	V
5.640500	53.56	Pk	34.4	-95.2	-47.25	-54.49	-13	-41.49	H
5.640500	53.70	Pk	34.4	-95.2	-47.25	-54.35	-13	-41.35	V
7.520500	53.59	Pk	35.8	-95.2	-46.05	-51.86	-13	-38.86	H
7.520500	52.87	Pk	35.8	-95.2	-46.05	-52.58	-13	-39.58	V
High Channel, 1907.6MHz									
3.815500	54.13	Pk	33.5	-95.2	-46.95	-54.52	-13	-41.52	H
3.815500	53.29	Pk	33.5	-95.2	-46.95	-55.36	-13	-42.36	V
5.723000	53.96	Pk	34.6	-95.2	-46.80	-53.44	-13	-40.44	H
5.723000	55.72	Pk	34.6	-95.2	-46.80	-51.68	-13	-38.68	V
7.631000	51.91	Pk	35.9	-95.2	-44.90	-52.29	-13	-39.29	H
7.631000	52.48	Pk	35.9	-95.2	-44.90	-51.72	-13	-38.72	V

HSDPA MODE, ANT 1

Project #:	15496282
Date:	2025-05-15
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 2
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.730500	56.28	Pk	33.3	-95.2	-47.25	-52.87	-13	-39.87	H
3.728722	57.58	Pk	33.3	-95.2	-47.23	-51.55	-13	-38.55	V
5.555000	56.99	Pk	34.4	-95.2	-47.40	-51.21	-13	-38.21	H
5.560324	61.31	Pk	34.4	-95.2	-47.20	-46.69	-13	-33.69	V
7.401500	53.74	Pk	35.8	-95.2	-45.80	-51.46	-13	-38.46	H
7.406500	54.93	Pk	35.8	-95.2	-45.85	-50.32	-13	-37.32	V
Mid Channel, 1880MHz									
3.769500	56.04	Pk	33.4	-95.2	-47.00	-52.76	-13	-39.76	V
3.772500	56.02	Pk	33.4	-95.2	-46.95	-52.73	-13	-39.73	H
5.636178	60.58	Pk	34.4	-95.2	-47.18	-47.40	-13	-34.40	V
5.642000	54.93	Pk	34.4	-95.2	-47.20	-53.07	-13	-40.07	H
7.517500	54.93	Pk	35.8	-95.2	-46.05	-50.52	-13	-37.52	V
7.527000	54.25	Pk	35.8	-95.2	-46.00	-51.15	-13	-38.15	H
High Channel, 1907.6MHz									
3.812000	55.08	Pk	33.5	-95.2	-46.70	-53.32	-13	-40.32	V
3.813500	55.07	Pk	33.5	-95.2	-46.85	-53.48	-13	-40.48	H
5.719000	55.67	Pk	34.6	-95.2	-47.00	-51.93	-13	-38.93	H
5.726000	54.76	Pk	34.6	-95.2	-46.80	-52.64	-13	-39.64	V
7.630500	54.21	Pk	35.9	-95.2	-44.90	-49.99	-13	-36.99	H
7.665000	55.12	Pk	35.9	-95.2	-45.30	-49.48	-13	-36.48	V

HSDPA MODE, ANT 2

Project #:	15496282
Date:	2025-05-17
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 2
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.716500	55.91	Pk	33.3	-95.2	-47.25	-53.24	-13	-40.24	H
7.408000	55.15	Pk	35.8	-95.2	-46.00	-50.25	-13	-37.25	H
3.703500	56.57	Pk	33.2	-95.2	-47.20	-52.63	-13	-39.63	V
7.414000	54.55	Pk	35.8	-95.2	-46.00	-50.85	-13	-37.85	V
5.551000	55.98	Pk	34.4	-95.2	-47.30	-52.12	-13	-39.12	V
5.559000	56.08	Pk	34.4	-95.2	-47.30	-52.02	-13	-39.02	H
Mid Channel, 1880MHz									
3.765500	56.83	Pk	33.4	-95.2	-47.05	-52.02	-13	-39.02	H
7.529000	53.58	Pk	35.9	-95.2	-45.80	-51.52	-13	-38.52	H
3.758000	55.99	Pk	33.4	-95.2	-47.20	-53.01	-13	-40.01	V
7.529500	54.44	Pk	35.9	-95.2	-45.85	-50.71	-13	-37.71	V
5.632000	55.25	Pk	34.4	-95.2	-47.10	-52.65	-13	-39.65	V
5.643500	55.27	Pk	34.4	-95.2	-47.20	-52.73	-13	-39.73	H
High Channel, 1907.6MHz									
3.823000	54.95	Pk	33.5	-95.2	-47.00	-53.75	-13	-40.75	H
7.625000	54.57	Pk	35.9	-95.2	-44.90	-49.63	-13	-36.63	H
3.807500	55.19	Pk	33.5	-95.2	-46.85	-53.36	-13	-40.36	V
7.649500	54.08	Pk	35.9	-95.2	-45.10	-50.32	-13	-37.32	V
5.717500	55.56	Pk	34.6	-95.2	-47.00	-52.04	-13	-39.04	V
5.739000	54.70	Pk	34.6	-95.2	-46.70	-52.60	-13	-39.60	H

HSDPA MODE, ANT 3

Project #:	15496282
Date:	2025-05-18
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 2
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.705000	54.05	Pk	33.2	-95.2	-47.30	-55.25	-13	-42.25	H
7.410000	53.48	Pk	35.8	-95.2	-45.90	-51.82	-13	-38.82	H
3.705000	54.27	Pk	33.2	-95.2	-47.30	-55.03	-13	-42.03	V
7.410000	52.90	Pk	35.8	-95.2	-45.90	-52.40	-13	-39.40	V
5.557500	52.68	Pk	34.4	-95.2	-47.35	-55.47	-13	-42.47	H
5.557500	54.47	Pk	34.4	-95.2	-47.35	-53.68	-13	-40.68	V
Mid Channel, 1880MHz									
3.760000	54.14	Pk	33.4	-95.2	-47.20	-54.86	-13	-41.86	H
3.760000	53.80	Pk	33.4	-95.2	-47.20	-55.20	-13	-42.20	V
7.520500	53.71	Pk	35.8	-95.2	-46.05	-51.74	-13	-38.74	H
7.520500	53.86	Pk	35.8	-95.2	-46.05	-51.59	-13	-38.59	V
5.640500	52.56	Pk	34.4	-95.2	-47.25	-55.49	-13	-42.49	H
5.640500	52.57	Pk	34.4	-95.2	-47.25	-55.48	-13	-42.48	V
High Channel, 1907.6MHz									
3.815000	52.56	Pk	33.5	-95.2	-46.90	-56.04	-13	-43.04	H
7.630500	52.12	Pk	35.9	-95.2	-44.90	-52.08	-13	-39.08	H
3.815000	54.37	Pk	33.5	-95.2	-46.90	-54.23	-13	-41.23	V
7.630500	51.70	Pk	35.9	-95.2	-44.90	-52.50	-13	-39.50	V
5.723000	52.89	Pk	34.6	-95.2	-46.80	-54.51	-13	-41.51	H
5.723000	53.12	Pk	34.6	-95.2	-46.80	-54.28	-13	-41.28	V

HSDPA MODE, ANT 4

Project #:	15496282
Date:	2025-05-21
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 2
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1852.4MHz									
3.704500	53.93	Pk	33.2	-95.2	-47.25	-55.32	-13	-42.32	H
7.410000	53.39	Pk	35.8	-95.2	-45.90	-51.91	-13	-38.91	H
3.704500	55.67	Pk	33.2	-95.2	-47.25	-53.58	-13	-40.58	V
7.410000	54.04	Pk	35.8	-95.2	-45.90	-51.26	-13	-38.26	V
5.557500	52.85	Pk	34.4	-95.2	-47.35	-55.30	-13	-42.30	H
5.557500	53.96	Pk	34.4	-95.2	-47.35	-54.19	-13	-41.19	V
Mid Channel, 1880MHz									
3.760000	54.55	Pk	33.4	-95.2	-47.20	-54.45	-13	-41.45	H
7.520500	55.38	Pk	35.8	-95.2	-46.05	-50.07	-13	-37.07	H
3.760000	54.33	Pk	33.4	-95.2	-47.20	-54.67	-13	-41.67	V
7.520500	52.63	Pk	35.8	-95.2	-46.05	-52.82	-13	-39.82	V
5.640000	53.01	Pk	34.4	-95.2	-47.20	-54.99	-13	-41.99	H
5.640000	51.72	Pk	34.4	-95.2	-47.20	-56.28	-13	-43.28	V
High Channel, 1907.6MHz									
3.815500	52.14	Pk	33.5	-95.2	-46.95	-56.51	-13	-43.51	H
7.630500	51.90	Pk	35.9	-95.2	-44.90	-52.30	-13	-39.30	H
3.815500	52.42	Pk	33.5	-95.2	-46.95	-56.23	-13	-43.23	V
7.630500	52.76	Pk	35.9	-95.2	-44.90	-51.44	-13	-38.44	V
5.723000	53.48	Pk	34.6	-95.2	-46.80	-53.92	-13	-40.92	H
5.723000	54.96	Pk	34.6	-95.2	-46.80	-52.44	-13	-39.44	V

10.1.2. WCDMA BAND 4

REL 99 MODE, ANT 1

Project #:	15496282
Date:	2025-05-15
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 4
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
3.392000	56.80	Pk	32.8	-95.2	-46.90	-52.50	-13	-39.50	V
3.441000	54.93	Pk	32.8	-95.2	-46.70	-54.17	-13	-41.17	H
5.128500	55.48	Pk	34.2	-95.2	-47.70	-53.22	-13	-40.22	H
5.131500	55.49	Pk	34.2	-95.2	-47.60	-53.11	-13	-40.11	V
6.847500	54.93	Pk	35.8	-95.2	-45.45	-49.92	-13	-36.92	V
6.855500	53.47	Pk	35.8	-95.2	-45.15	-51.08	-13	-38.08	H
Mid Channel, 1732.6MHz									
3.448500	56.40	Pk	32.8	-95.2	-46.65	-52.65	-13	-39.65	V
3.464000	55.40	Pk	32.9	-95.2	-46.70	-53.60	-13	-40.60	H
5.193500	55.55	Pk	34.3	-95.2	-47.75	-53.10	-13	-40.10	H
5.194500	55.53	Pk	34.3	-95.2	-47.65	-53.02	-13	-40.02	V
6.938000	54.47	Pk	35.8	-95.2	-46.10	-51.03	-13	-38.03	H
6.956000	53.82	Pk	35.8	-95.2	-46.20	-51.78	-13	-38.78	V
High Channel, 1752.6MHz									
3.498000	55.33	Pk	32.9	-95.2	-46.90	-53.87	-13	-40.87	V
3.516000	54.96	Pk	32.9	-95.2	-46.70	-54.04	-13	-41.04	H
5.231000	57.06	Pk	34.4	-95.2	-47.90	-51.64	-13	-38.64	V
5.253000	55.50	Pk	34.5	-95.2	-47.90	-53.10	-13	-40.10	H
7.010500	55.26	Pk	35.8	-95.2	-46.00	-50.14	-13	-37.14	H
7.026000	54.28	Pk	35.8	-95.2	-45.70	-50.82	-13	-37.82	V

REL 99 MODE, ANT 2

Project #:	15496282
Date:	2025-05-16
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 4
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
3.414500	55.45	Pk	32.8	-95.2	-46.95	-53.90	-13	-40.90	V
3.429000	56.86	Pk	32.8	-95.2	-46.90	-52.44	-13	-39.44	H
5.115500	56.23	Pk	34.1	-95.2	-47.65	-52.52	-13	-39.52	V
5.130000	56.46	Pk	34.2	-95.2	-47.70	-52.24	-13	-39.24	H
6.853000	55.03	Pk	35.8	-95.2	-45.30	-49.67	-13	-36.67	V
6.860500	53.85	Pk	35.8	-95.2	-45.10	-50.65	-13	-37.65	H
Mid Channel, 1732.6MHz									
3.464000	54.95	Pk	32.9	-95.2	-46.70	-54.05	-13	-41.05	V
3.466000	54.65	Pk	32.9	-95.2	-46.60	-54.25	-13	-41.25	H
5.205000	56.14	Pk	34.3	-95.2	-47.70	-52.46	-13	-39.46	H
5.226500	56.53	Pk	34.4	-95.2	-47.80	-52.07	-13	-39.07	V
6.779500	55.78	Pk	35.8	-95.2	-45.40	-49.02	-13	-36.02	H
6.862500	54.14	Pk	35.8	-95.2	-45.10	-50.36	-13	-37.36	V
High Channel, 1752.6MHz									
3.472500	55.11	Pk	32.9	-95.2	-46.65	-53.84	-13	-40.84	V
3.497000	55.55	Pk	32.9	-95.2	-46.80	-53.55	-13	-40.55	H
5.254500	56.49	Pk	34.5	-95.2	-47.90	-52.11	-13	-39.11	V
5.257500	56.11	Pk	34.5	-95.2	-47.85	-52.44	-13	-39.44	H
7.018500	53.90	Pk	35.8	-95.2	-45.85	-51.35	-13	-38.35	V
7.028500	53.96	Pk	35.8	-95.2	-45.65	-51.09	-13	-38.09	H

REL 99 MODE, ANT 3

Project #:	15496282
Date:	2025-05-18
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 4
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
5.137000	53.84	Pk	34.2	-95.2	-47.80	-54.96	-13	-41.96	H
5.137000	54.03	Pk	34.2	-95.2	-47.80	-54.77	-13	-41.77	V
3.424000	54.41	Pk	32.8	-95.2	-46.80	-54.79	-13	-41.79	H
3.424000	53.71	Pk	32.8	-95.2	-46.80	-55.49	-13	-42.49	V
6.850000	53.35	Pk	35.8	-95.2	-45.30	-51.35	-13	-38.35	H
6.850000	51.96	Pk	35.8	-95.2	-45.30	-52.74	-13	-39.74	V
Mid Channel, 1732.6MHz									
3.465500	54.33	Pk	32.9	-95.2	-46.60	-54.57	-13	-41.57	H
3.465500	53.20	Pk	32.9	-95.2	-46.60	-55.70	-13	-42.70	V
5.197500	54.08	Pk	34.3	-95.2	-47.70	-54.52	-13	-41.52	H
5.197500	54.08	Pk	34.3	-95.2	-47.70	-54.52	-13	-41.52	V
6.930500	52.80	Pk	35.8	-95.2	-46.15	-52.75	-13	-39.75	H
6.930500	53.20	Pk	35.8	-95.2	-46.15	-52.35	-13	-39.35	V
High Channel, 1752.6MHz									
3.505500	54.60	Pk	32.9	-95.2	-46.80	-54.50	-13	-41.50	H
3.505500	53.82	Pk	32.9	-95.2	-46.80	-55.28	-13	-42.28	V
5.257500	53.30	Pk	34.5	-95.2	-47.85	-55.25	-13	-42.25	H
5.257500	54.20	Pk	34.5	-95.2	-47.85	-54.35	-13	-41.35	V
7.010000	52.10	Pk	35.8	-95.2	-46.00	-53.30	-13	-40.30	H
7.010000	54.19	Pk	35.8	-95.2	-46.00	-51.21	-13	-38.21	V

REL 99 MODE, ANT 4

Project #:	15496282
Date:	2025-05-21
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMA REL 99 Band 4
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
5.137500	53.55	Pk	34.2	-95.2	-47.80	-55.25	-13	-42.25	H
5.137500	54.46	Pk	34.2	-95.2	-47.80	-54.34	-13	-41.34	V
3.424000	52.67	Pk	32.8	-95.2	-46.80	-56.53	-13	-43.53	H
3.424000	53.81	Pk	32.8	-95.2	-46.80	-55.39	-13	-42.39	V
6.849500	54.27	Pk	35.8	-95.2	-45.35	-50.48	-13	-37.48	H
6.849500	53.78	Pk	35.8	-95.2	-45.35	-50.97	-13	-37.97	V
Mid Channel, 1732.6MHz									
3.465000	52.66	Pk	32.9	-95.2	-46.60	-56.24	-13	-43.24	H
3.465000	54.50	Pk	32.9	-95.2	-46.60	-54.40	-13	-41.40	V
5.198000	53.40	Pk	34.3	-95.2	-47.70	-55.20	-13	-42.20	H
5.198000	54.28	Pk	34.3	-95.2	-47.70	-54.32	-13	-41.32	V
6.931000	52.81	Pk	35.8	-95.2	-46.10	-52.69	-13	-39.69	H
6.931000	54.80	Pk	35.8	-95.2	-46.10	-50.70	-13	-37.70	V
High Channel, 1752.6MHz									
3.505500	54.47	Pk	32.9	-95.2	-46.80	-54.63	-13	-41.63	H
3.505500	52.86	Pk	32.9	-95.2	-46.80	-56.24	-13	-43.24	V
5.258000	53.99	Pk	34.5	-95.2	-47.80	-54.51	-13	-41.51	H
5.258000	53.70	Pk	34.5	-95.2	-47.80	-54.80	-13	-41.80	V
7.011000	52.47	Pk	35.8	-95.2	-46.00	-52.93	-13	-39.93	H
7.011000	52.34	Pk	35.8	-95.2	-46.00	-53.06	-13	-40.06	V

HSDPA MODE, ANT 1

Project #:	15496282
Date:	2025-05-15
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 4
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
3.3925000	56.03	Pk	32.8	-95.2	-46.85	-53.22	-13	-40.22	V
3.412000	54.72	Pk	32.8	-95.2	-46.90	-54.58	-13	-41.58	H
5.152500	56.77	Pk	34.2	-95.2	-47.95	-52.18	-13	-39.18	H
5.156000	55.20	Pk	34.2	-95.2	-47.90	-53.70	-13	-40.70	V
6.850500	54.27	Pk	35.8	-95.2	-45.35	-50.48	-13	-37.48	H
6.854000	53.71	Pk	35.8	-95.2	-45.20	-50.89	-13	-37.89	V
Mid Channel, 1732.6MHz									
3.469500	55.43	Pk	32.9	-95.2	-46.80	-53.67	-13	-40.67	V
3.488000	55.86	Pk	32.9	-95.2	-46.80	-53.24	-13	-40.24	H
5.160500	55.53	Pk	34.2	-95.2	-48.00	-53.47	-13	-40.47	V
5.184000	55.35	Pk	34.3	-95.2	-47.80	-53.35	-13	-40.35	H
6.928000	53.94	Pk	35.8	-95.2	-46.10	-51.56	-13	-38.56	H
6.975500	54.57	Pk	35.8	-95.2	-46.10	-50.93	-13	-37.93	V
High Channel, 1752.6MHz									
3.505500	55.30	Pk	32.9	-95.2	-46.80	-53.80	-13	-40.80	V
3.508000	55.27	Pk	32.9	-95.2	-46.80	-53.83	-13	-40.83	H
5.243000	56.23	Pk	34.4	-95.2	-47.90	-52.47	-13	-39.47	V
5.268500	56.36	Pk	34.5	-95.2	-47.70	-52.04	-13	-39.04	H
7.001500	54.92	Pk	35.8	-95.2	-46.05	-50.53	-13	-37.53	V
7.004000	54.47	Pk	35.8	-95.2	-45.90	-50.83	-13	-37.83	H

HSDPA MODE, ANT 2

Project #:	15496282
Date:	2025-05-17
Test Engineer:	32934
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 4
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
5.134500	55.77	Pk	34.2	-95.2	-47.75	-52.98	-13	-39.98	H
5.140000	55.19	Pk	34.2	-95.2	-47.70	-53.51	-13	-40.51	V
3.400000	55.00	Pk	32.8	-95.2	-46.90	-54.30	-13	-41.30	V
3.423500	55.50	Pk	32.8	-95.2	-46.85	-53.75	-13	-40.75	H
6.792000	55.28	Pk	35.8	-95.2	-45.00	-49.12	-13	-36.12	V
6.846500	53.68	Pk	35.8	-95.2	-45.45	-51.17	-13	-38.17	H
Mid Channel, 1732.6MHz									
3.467500	55.46	Pk	32.9	-95.2	-46.70	-53.54	-13	-40.54	V
3.476500	55.28	Pk	32.9	-95.2	-46.85	-53.87	-13	-40.87	H
5.210000	56.88	Pk	34.4	-95.2	-47.70	-51.62	-13	-38.62	H
5.220000	56.13	Pk	34.4	-95.2	-47.80	-52.47	-13	-39.47	V
6.916000	54.36	Pk	35.8	-95.2	-46.10	-51.14	-13	-38.14	V
6.925500	54.54	Pk	35.8	-95.2	-46.10	-50.96	-13	-37.96	H
High Channel, 1752.6MHz									
3.479500	55.10	Pk	32.9	-95.2	-46.75	-53.95	-13	-40.95	V
3.498500	54.71	Pk	32.9	-95.2	-46.90	-54.49	-13	-41.49	H
5.267500	55.30	Pk	34.5	-95.2	-47.60	-53.00	-13	-40.00	H
5.344500	57.07	Pk	34.6	-95.2	-47.75	-51.28	-13	-38.28	V
7.026500	54.59	Pk	35.8	-95.2	-45.75	-50.56	-13	-37.56	H
7.089500	55.44	Pk	35.8	-95.2	-45.20	-49.16	-13	-36.16	V

HSDPA MODE, ANT 3

Project #:	15496282
Date:	2025-05-18
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMA HSDPA Band 4
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
5.137000	53.79	Pk	34.2	-95.2	-47.80	-55.01	-13	-42.01	H
5.137000	54.24	Pk	34.2	-95.2	-47.80	-54.56	-13	-41.56	V
3.425000	54.31	Pk	32.8	-95.2	-46.80	-54.89	-13	-41.89	H
3.425000	53.12	Pk	32.8	-95.2	-46.80	-56.08	-13	-43.08	V
6.849500	52.84	Pk	35.8	-95.2	-45.35	-51.91	-13	-38.91	H
6.849500	52.27	Pk	35.8	-95.2	-45.35	-52.48	-13	-39.48	V
Mid Channel, 1732.6MHz									
3.465500	52.42	Pk	32.9	-95.2	-46.60	-56.48	-13	-43.48	H
3.465500	52.67	Pk	32.9	-95.2	-46.60	-56.23	-13	-43.23	V
5.197500	53.58	Pk	34.3	-95.2	-47.70	-55.02	-13	-42.02	H
5.197500	55.14	Pk	34.3	-95.2	-47.70	-53.46	-13	-40.46	V
6.930000	52.96	Pk	35.8	-95.2	-46.20	-52.64	-13	-39.64	H
6.930000	51.61	Pk	35.8	-95.2	-46.20	-53.99	-13	-40.99	V
High Channel, 1752.6MHz									
3.505500	54.01	Pk	32.9	-95.2	-46.80	-55.09	-13	-42.09	H
3.505500	53.51	Pk	32.9	-95.2	-46.80	-55.59	-13	-42.59	V
5.257000	54.85	Pk	34.5	-95.2	-47.90	-53.75	-13	-40.75	H
5.257000	53.98	Pk	34.5	-95.2	-47.90	-54.62	-13	-41.62	V
7.010500	52.67	Pk	35.8	-95.2	-46.00	-52.73	-13	-39.73	H
7.010500	52.24	Pk	35.8	-95.2	-46.00	-53.16	-13	-40.16	V

HSDPA MODE, ANT 4

Project #:	15496282
Date:	2025-05-21
Test Engineer:	32703
Configuration;	EUT Only
Mode:	WCDMAHSDPA Band 4
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1712.4MHz									
5.137500	54.45	Pk	34.2	-95.2	-47.80	-54.35	-13	-41.35	H
5.137500	55.36	Pk	34.2	-95.2	-47.80	-53.44	-13	-40.44	V
3.425000	54.31	Pk	32.8	-95.2	-46.80	-54.89	-13	-41.89	H
3.425000	53.74	Pk	32.8	-95.2	-46.80	-55.46	-13	-42.46	V
6.849250	52.28	Pk	35.8	-95.2	-45.38	-52.50	-13	-39.50	H
6.849500	52.16	Pk	35.8	-95.2	-45.35	-52.59	-13	-39.59	V
Mid Channel, 1732.6MHz									
3.465000	53.21	Pk	32.9	-95.2	-46.60	-55.69	-13	-42.69	H
3.465000	54.11	Pk	32.9	-95.2	-46.60	-54.79	-13	-41.79	V
5.197500	55.88	Pk	34.3	-95.2	-47.70	-52.72	-13	-39.72	H
5.197500	54.89	Pk	34.3	-95.2	-47.70	-53.71	-13	-40.71	V
6.930500	51.92	Pk	35.8	-95.2	-46.15	-53.63	-13	-40.63	H
6.930500	52.48	Pk	35.8	-95.2	-46.15	-53.07	-13	-40.07	V
High Channel, 1752.6MHz									
3.505500	53.41	Pk	32.9	-95.2	-46.80	-55.69	-13	-42.69	H
3.505500	53.26	Pk	32.9	-95.2	-46.80	-55.84	-13	-42.84	V
5.257500	55.07	Pk	34.5	-95.2	-47.85	-53.48	-13	-40.48	H
5.257500	53.98	Pk	34.5	-95.2	-47.85	-54.57	-13	-41.57	V
7.010500	53.20	Pk	35.8	-95.2	-46.00	-52.20	-13	-39.20	H
7.010500	52.50	Pk	35.8	-95.2	-46.00	-52.90	-13	-39.90	V

11. SETUP PHOTOS

Refer to 15496277-EP1 for setup photos.

END OF REPORT