

FCC TEST REPORT

Product Name: Mobile Phone

Trade Mark: BLU

Model No.: C5 2019

Add. Model No.: GRAND X3+, J2

Report Number: 190708011RFM-1

Test Standards: FCC 47 CFR Part 22 Subpart H
FCC 47 CFR Part 24 Subpart E
FCC 47 CFR Part 27 Subpart L

FCC ID: YHLBLUC519

Test Result: PASS

Date of Issue: July 31, 2019

Prepared for:

BLU Products, Inc.
10814 NW 33rd St # 100 Doral, FL 33172, USA

Prepared by:

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Version

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V1.0	July 31, 2019	Original

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	BLU Products, Inc.
Address of Applicant:	10814 NW 33rd St # 100 Doral, FL 33172, USA
Manufacturer:	BLU Products, Inc.
Address of Manufacturer:	10814 NW 33rd St # 100 Doral, FL 33172, USA

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Mobile Phone	
Model No.:	C5 2019	
Add. Model No.:	GRAND X3+, J2	
Trade Mark:	BLU	
DUT Stage:	Identical Prototype	
EUT Supports Function:	GSM Bands:	GSM850/1900
	UTRA Bands:	Band II/ Band IV/ Band V
	2.4 GHz ISM Band:	IEEE 802.11b/g/n Bluetooth V4.2
Sample Received Date:	July 10, 2019	
Sample Tested Date:	July 10, 2019 to July 30, 2019	
Note: The additional model GRAND X3+, J2 is identical with the test model C5 2019 except the model number for marketing purpose.		

1.2.2 Description of Accessories

Adapter	
Model No.:	US-WW-1003
Input:	100-240 V~50/60 Hz 0.2 A
Output:	5.0 V == 1A

Battery	
Model No.:	C775443200L
Battery Type:	Lithium-ion Rechargeable Battery
Rated Voltage:	3.8 Vdc
Rated Capacity:	2000 mAh

Cable	
Description:	USB Micro-B Plug Cable
Cable Type:	Unshielded without ferrite
Length:	1.00 Meter

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	GSM, GPRS, WCDMA, HSDPA, HSUPA	
Type of Modulation:	GSM/GPRS:	GMSK
	WCDMA	BPSK
	HSDPA:	QPSK
	HSUPA:	QPSK
Frequency Range:	GSM/GPRS 850:	824.2-848.8 MHz
	GSM/GPRS 1900:	1850.2-1909.8 MHz
	WCDMA Band II:	1852.4-1907.6 MHz
	WCDMA Band IV:	1712.4-1752.6 MHz
	WCDMA Band V:	826.4-846.6 MHz
Max RF Output Power:	GSM/GPRS 850:	33.39dBm
	GSM/GPRS 1900:	29.43dBm
	WCDMA Band II:	22.99dBm
	WCDMA Band IV:	23.67dBm
	WCDMA Band V:	23.42dBm
Emission Designator:	GSM/GPRS 850:	247KGXW
	GSM/GPRS 1900:	249KGXW
	WCDMA Band II:	4M17F9W
	WCDMA Band IV:	4M17F9W
	WCDMA Band V:	4M16F9W
IEMI:	Radiation: 863911029829631, 863911029829649	
	Conducted: 863911029829672, 863911029829680	
Antenna Type:	PIFA Antenna	
Antenna Gain:	GSM 850:	-2.0 dBi
	PCS 1900:	-1.2 dBi
	WCDMA Band II:	-1.2 dBi
	WCDMA Band IV:	-1.0 dBi
	WCDMA Band V:	-2.0 dBi
GPRS Class:	Class 12	
Normal Test Voltage:	3.8 Vdc	
Extreme Test Voltage:	3.5 to 4.3Vdc	
Extreme Test Temperature:	0 °C to +50 °C	

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested independently

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China 518109

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1.6 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

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1.10 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.8 dB
2	Conducted emission 150KHz-30MHz	±3.4 dB
3	Radiated emission 9KHz-30MHz	±4.9 dB
4	Radiated emission 30MHz-1GHz	±4.7 dB
5	Radiated emission 1GHz-18GHz	±5.1 dB
6	Radiated emission 18GHz-26GHz	±5.2 dB
7	Radiated emission 26GHz-40GHz	±5.2 dB

2. TEST SUMMARY

FCC 47 CFR Part 22 Subpart H Test Cases			
Test Item	Test Requirement	Test Method	Result
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 22.917(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 24 Subpart E Test Cases			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 24.232(d)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 24.238(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 24.238(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 24.235	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Subpart L Test Cases			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(h)(1)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
<input checked="" type="checkbox"/>	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 03, 2018	Dec. 03, 2021
<input checked="" type="checkbox"/>	Receiver	R&S	ESIB26	100114	Nov. 24, 2018	Nov. 24, 2019
<input checked="" type="checkbox"/>	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Dec. 08, 2018	Dec. 08, 2019
<input checked="" type="checkbox"/>	6dB Attenuator	Talent	RA6A5-N-18	18103001	Dec. 08, 2018	Dec. 08, 2019
<input checked="" type="checkbox"/>	Preamplifier	HP	8447F	2805A02960	Nov. 24, 2018	Nov. 24, 2019
<input type="checkbox"/>	Horn Antenna	ETS-LINDGREN	3117	00164202	Dec. 08, 2018	Dec. 08, 2019
<input checked="" type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	May 18, 2019	May 18, 2020
<input type="checkbox"/>	Horn Antenna	ETS-LINDGREN	3116C	00200180	Jun. 23, 2019	Jun. 23, 2020
<input checked="" type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Jan. 05, 2019	Jan. 05, 2020
<input checked="" type="checkbox"/>	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
<input checked="" type="checkbox"/>	Test Software	Audix	e3	Software Version: 9.160333		

RF Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
<input checked="" type="checkbox"/>	Receiver	R&S	ESR7	1316.3003K07-101181-K3	Nov. 24, 2018	Nov. 24, 2019
<input checked="" type="checkbox"/>	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Nov. 24, 2018	Nov. 24, 2019
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	119583	Jun. 07, 2019	Jun. 07, 2020
<input type="checkbox"/>	Universal Radio Communication Tester	R&S	CMU200	114713	Nov. 24, 2018	Nov. 24, 2019
<input checked="" type="checkbox"/>	DC Source	KIKUSUI	PWR400L	LK003024	Sep. 18, 2018	Sep. 18, 2019
<input checked="" type="checkbox"/>	Temp & Humidity chamber	Espec	GL(U)04K A(W)	16921H201P3	Sep. 20, 2018	Sep. 20, 2019
<input checked="" type="checkbox"/>	Temp & Humidity chamber	Votisch	VT4002	58566133290 020	Jun. 05, 2018	Jun. 05, 2020

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	3.8	20 to 75
TL/VL	0	3.5	20 to 75
TH/VL	+50	3.5	20 to 75
TL/VH	0	4.3	20 to 75
TH/VH	+50	4.3	20 to 75

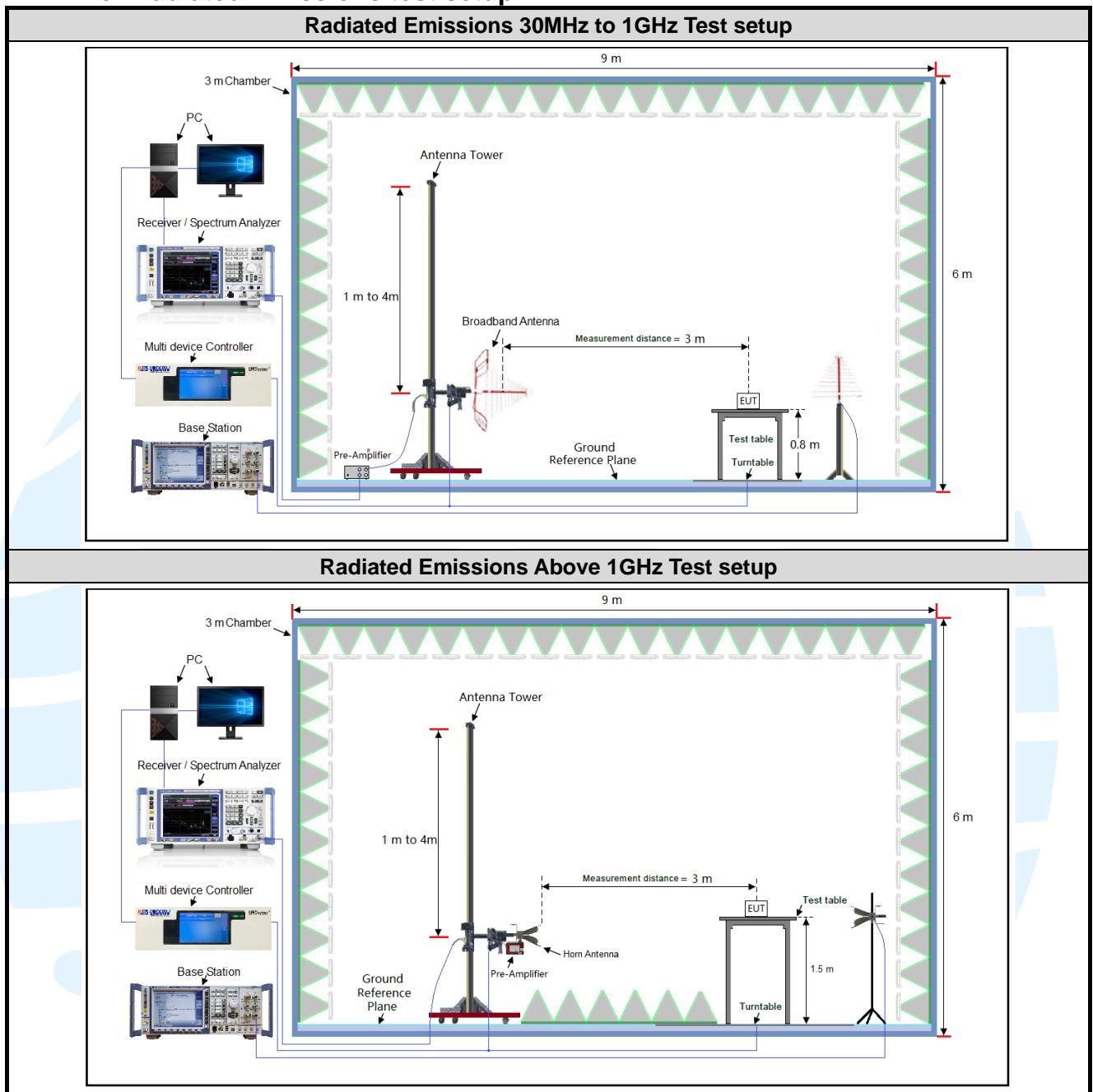
Remark:

1) The EUT just work in such extreme temperature of 0 °C to +50 °C and the extreme voltage of 3.5 V to 4.3 V, so here the EUT is tested in the temperature of 0 °C to +50 °C and the voltage of 3.5 V to 4.3 V.

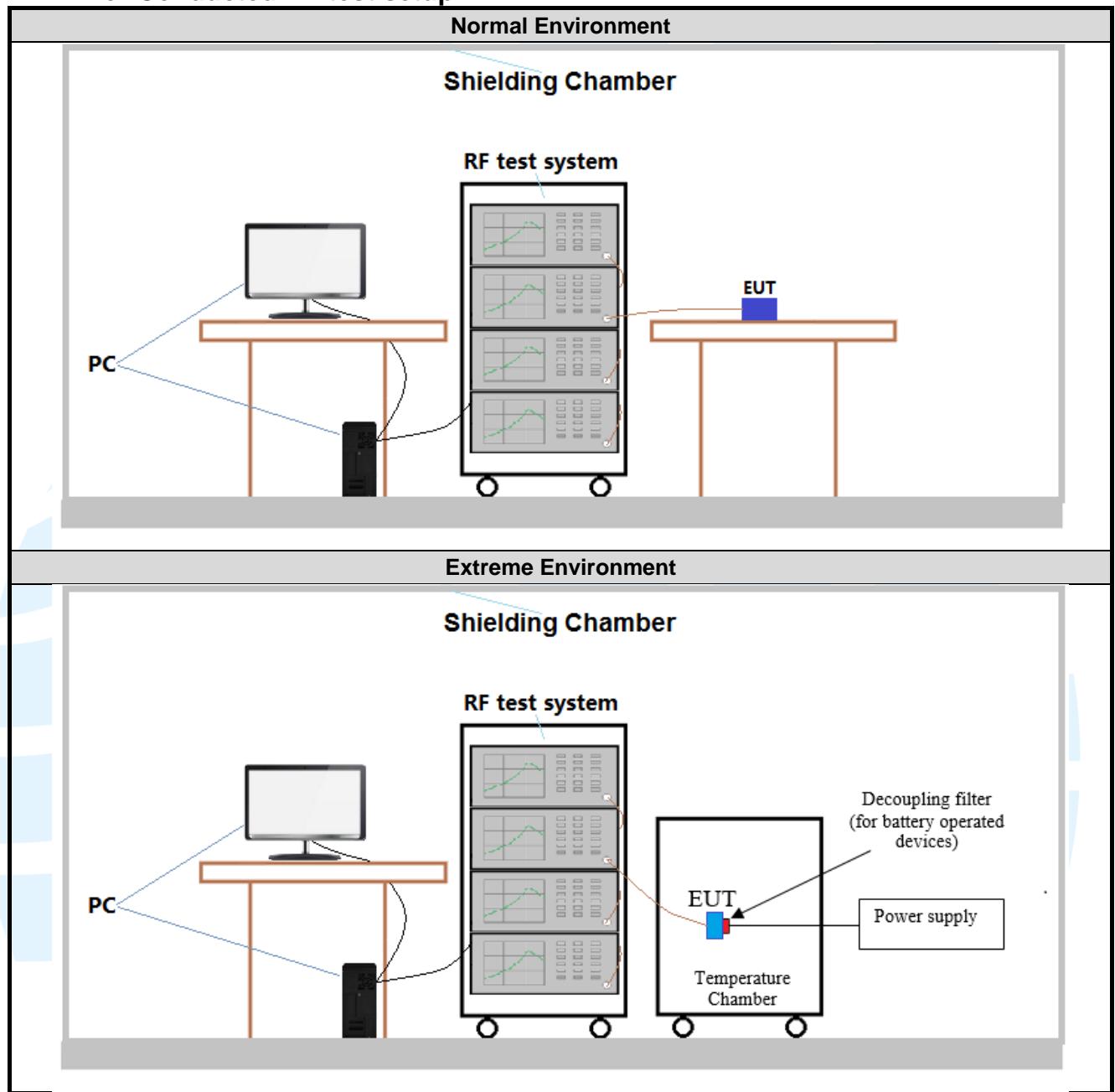
2) VN: Normal Voltage; TN: Normal Temperature;
TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

4.2 TEST SETUP

4.2.1 For Radiated Emissions test setup



4.2.2 For Conducted RF test setup



4.3 TEST CHANNELS

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
GSM/GPRS 850	Tx (824 MHz ~ 849 MHz)	Channel 128	Channel 190	Channel 251
		824.2 MHz	836.6 MHz	848.8 MHz
WCDMA band V	Tx (824 MHz ~ 849 MHz)	Channel 4132	Channel 4182	Channel 4233
		826.4 MHz	836.4 MHz	846.6 MHz

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
GSM/GPRS 1900	Tx (1850 MHz-1910 MHz)	Channel 512	Channel 661	Channel 810
		1850.2 MHz	1880.0 MHz	1909.8 MHz
WCDMA Band II	Tx (1850 MHz-1910 MHz)	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
WCDMA Band IV	Tx (1710 MHz-1755 MHz)	Channel 1312	Channel 1412	Channel 1513
		1712.4 MHz	1732.4 MHz	1752.6 MHz

4.4 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.8Vdc rechargeable Li-on battery. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

The worst case was found when positioned as the table below.

Bands	Mode	Antenna Port	Worst-case axis positioning
GSM 850	1TX	Chain 0	Y axis
PCS 1900	1TX	Chain 0	Y axis
WCDMA Band II	1TX	Chain 0	Y axis
WCDMA Band IV	1TX	Chain 0	Y axis
WCDMA Band V	1TX	Chain 0	Y axis

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.5 PRE-SCAN

Pre-scan under all rate at lowest middle and highest channel, find the transmitter power as below:
SIM 1 Card Conducted transmitter power measurement result.

GSM 850 Maximum Average Power (dBm)			
Channel	128	190	251
Frequency(MHz)	824.2 MHz	836.6 MHz	848.8 MHz
GSM (GMSK, 1Tx-slot)	33.29	33.28	33.30
GPRS (GMSK, 1Tx-slot)	33.37	33.39	33.38
GPRS (GMSK, 2Tx-slot)	31.56	31.57	31.51
GPRS (GMSK, 3Tx-slot)	29.98	29.93	29.89
GPRS (GMSK, 4Tx-slot)	28.31	28.29	28.22

PCS 1900 Maximum Average Power (dBm)			
Channel	512	661	810
Frequency(MHz)	1850.2 MHz	1880.0 MHz	1909.8 MHz
GSM (GMSK, 1Tx-slot)	29.24	29.27	29.42
GPRS (GMSK, 1Tx-slot)	29.28	29.36	29.43
GPRS (GMSK, 2Tx-slot)	27.07	27.06	27.17
GPRS (GMSK, 3Tx-slot)	25.69	25.65	25.76
GPRS (GMSK, 4Tx-slot)	23.86	23.79	23.87

WCDMA Band II Maximum Average Power (dBm)			
Channel	9262	9400	9538
Frequency(MHz)	1852.4 MHz	1880.0 MHz	1907.6 MHz
RMC 12.2kbps	22.99	22.82	22.88
HSDPA Subtest-1	21.98	22.29	21.94
HSDPA Subtest-2	21.76	21.82	21.42
HSDPA Subtest-3	21.27	21.43	20.92
HSDPA Subtest-4	21.34	21.41	20.93
HSUPA Subtest-1	21.19	21.39	20.99
HSUPA Subtest-2	18.92	19.09	18.75
HSUPA Subtest-3	18.73	19.05	18.61
HSUPA Subtest-4	19.27	19.39	19.09
HSUPA Subtest-5	21.56	21.64	21.23

WCDMA Band IV Maximum Average Power (dBm)			
Channel	1312	1412	1513
Frequency(MHz)	1712.4 MHz	1732.4 MHz	1752.6 MHz
RMC 12.2kbps	23.53	23.67	23.25
HSDPA Subtest-1	22.24	21.82	22.15
HSDPA Subtest-2	21.89	21.57	21.82
HSDPA Subtest-3	20.96	20.52	20.88
HSDPA Subtest-4	20.95	20.53	20.89
HSUPA Subtest-1	21.38	21.24	21.32
HSUPA Subtest-2	19.78	19.36	19.78
HSUPA Subtest-3	19.56	19.05	19.72
HSUPA Subtest-4	20.07	19.67	20.02
HSUPA Subtest-5	22.01	21.78	21.97

WCDMA Band V Maximum Average Power (dBm)			
Channel	4132	4182	4233
Frequency(MHz)	826.4 MHz	836.4 MHz	846.6 MHz
RMC 12.2kbps	23.37	23.42	23.19
HSDPA Subtest-1	21.48	22.47	21.44
HSDPA Subtest-2	21.85	22.75	21.78
HSDPA Subtest-3	21.05	21.97	21.01
HSDPA Subtest-4	21.08	22.01	21.02
HSUPA Subtest-1	20.79	21.83	20.80
HSUPA Subtest-2	18.11	19.17	18.04
HSUPA Subtest-3	18.35	19.34	18.31
HSUPA Subtest-4	18.41	19.47	18.32
HSUPA Subtest-5	21.38	22.29	21.27

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the worse mode applicability and tested channel detail as below:

Band	Radiated	Conducted
GSM/GPRS 850/1900	1) GSM (GMSK, 1Tx-slot) Link 2) GPRS (GMSK, 1Tx-slot) Link	1) GSM (GMSK, 1Tx-slot) Link 2) GPRS (GMSK, 1Tx-slot) Link
WCDMA Band II/IVV	RMC 12.2kbps Link	RMC 12.2kbps Link

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 22	Public Mobile Services
3	FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services
4	FCC 47 CFR Part 24	Personal Communications Services
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01

5.2 MAXIMUM ERP/EIRP

Test Requirement: FCC 47 CFR Part 2.1046(a),
FCC 47 CFR Part 22.913(a),
FCC 47 CFR Part 24.232(c),
FCC 47 CFR Part 27.50(d)(4)

Test Method: KDB 971168 D01v03r01 Section 5.6 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a)

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c)

Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4)

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

Test Procedure:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_c$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as PMeas, 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.

Test Setup: Refer to section 4.2.1 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: See table below

Bands	Modulation	Max. Conducted Avg. Power	Ant. Gain	Limit	ERP		Result
		(dBm)	(dBi)	(W)	(dBm)	(W)	
GSM 850 (824-849 MHz)	GPRS	33.39	-2.00	7.0	31.39	1.377209	Pass
WCDMA Band V (824-849 MHz)	RMC 12.2kbps	23.42	-2.00	7.0	21.42	0.138676	Pass
	HSUPA	22.29	-2.00		20.29	0.106905	Pass
	HSDPA	22.75	-2.00		20.75	0.118850	Pass

Bands	Modulation	Max. Conducted Avg. Power	Ant. Gain	Limit	EIRP		Result
		(dBm)	(dBi)	(W)	(dBm)	(W)	
PCS 1900 (1850-1910 MHz)	GPRS	29.43	-1.20	2.0	28.23	0.665273	Pass
WCDMA Band II (1850-1910 MHz)	RMC 12.2kbps	22.99	-1.20	2.0	21.79	0.151008	Pass
	HSUPA	21.64	-1.20		20.44	0.110662	Pass
	HSDPA	22.29	-1.20		21.09	0.128529	Pass
WCDMA Band IV (1710-1755 MHz)	RMC 12.2kbps	23.67	-1.00	1.0	22.67	0.184927	Pass
	HSUPA	22.01	-1.00		21.01	0.126183	Pass
	HSDPA	22.24	-1.00		21.24	0.133045	Pass

5.3 CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 2.1046(a),
FCC 47 CFR Part 22.913(a),
FCC 47 CFR Part 24.232(c),
FCC 47 CFR Part 27.50(d)(4)

Test Method: KDB 971168 D01v03r01 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a)

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c)

Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4)

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

Test Procedure:

The EUT was set up for the maximum power with GSM, GPRS, WCDMA, CDMA2000, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: The full result refer to section 4.5 for details.

5.4 PEAK-TO-AVERAGE RATIO

FCC 47 CFR Part 22.913(a),

Test Requirement: FCC 47 CFR Part 24.232(c),

FCC 47 CFR Part 27.50(d)(5)

Test Method: KDB 971168 D01v03r01 Section 5.7

Limit: In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

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.

- a) Set resolution/measurement bandwidth \geq signal's occupied bandwidth
- b) Set the number of counts to a value that stabilizes the measured CCDF curve
- c) Record the maximum PAPR level associated with a probability of 0.1 %

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

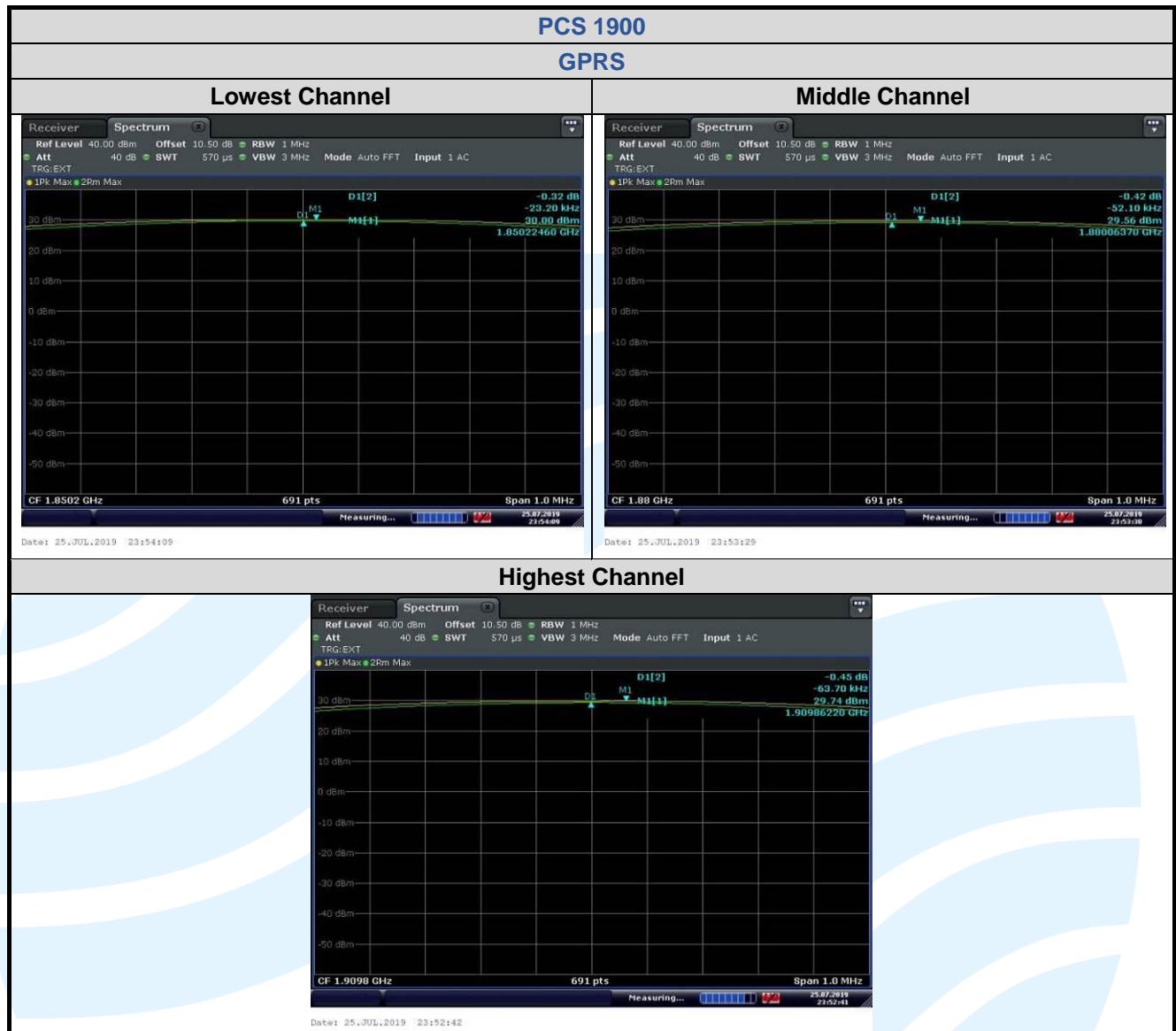
Test Results: Pass

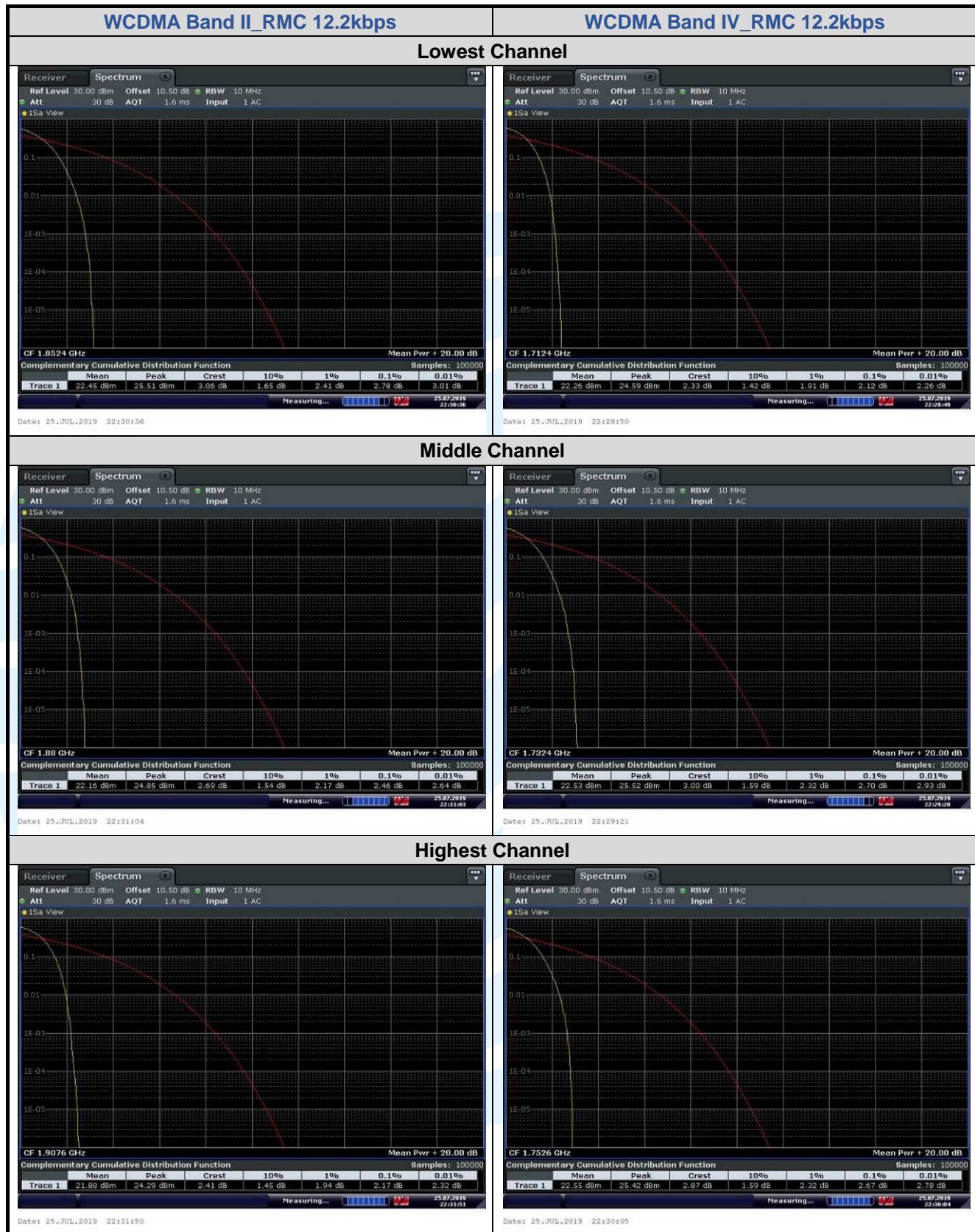
Test Data: See table below

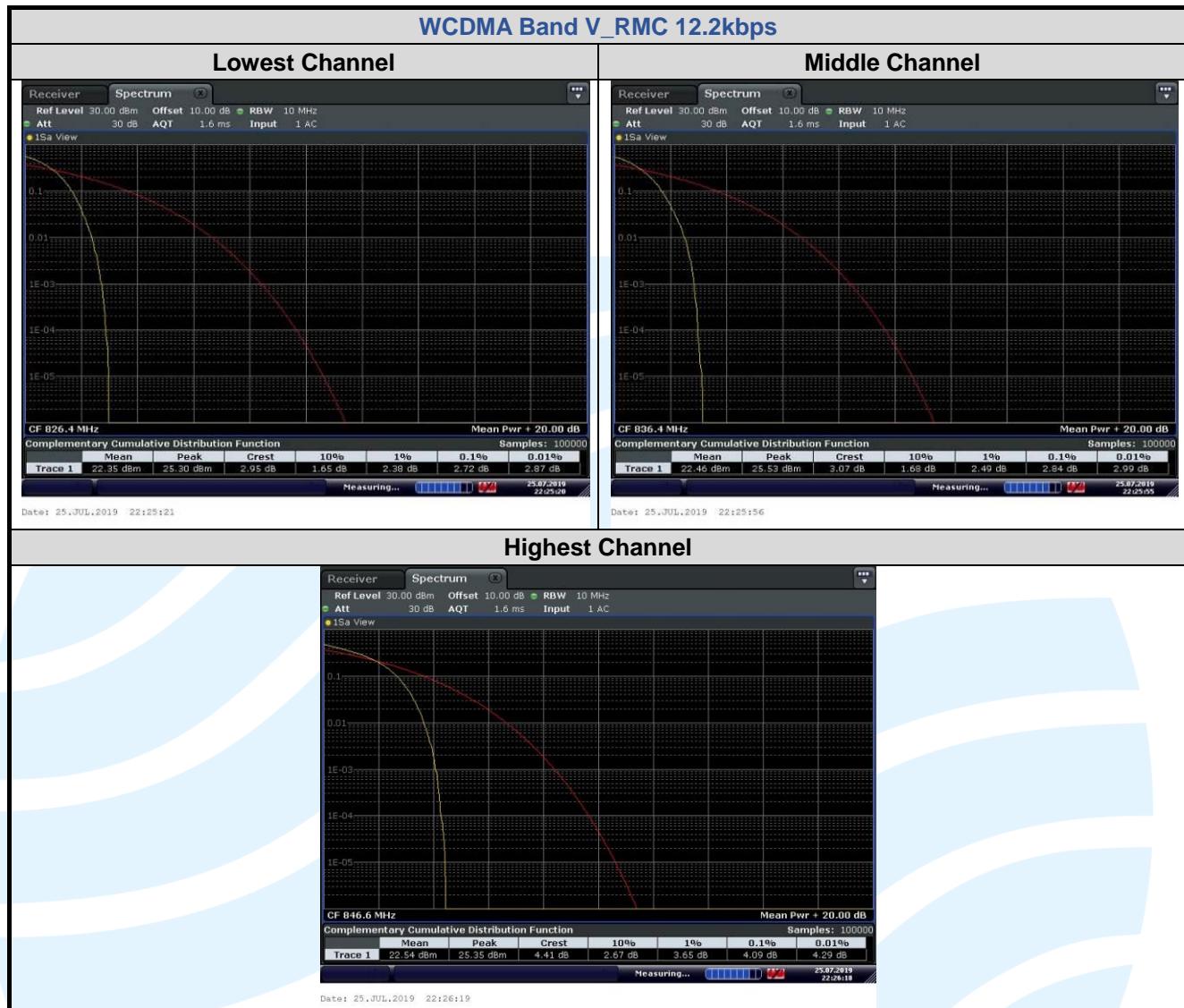
Bands	Modulation	Peak-to-average ratio (dB)			Limit (dB)	Result
		Lowest	Middle	Highest		
GSM 850	GPRS	0.34	0.33	0.33	13	Pass
PCS 1900	GPRS	0.39	0.34	0.35	13	Pass
WCDMA Band II	RMC 12.2kbps	2.78	2.46	2.17	13	Pass
WCDMA Band IV	RMC 12.2kbps	2.12	2.70	2.67	13	Pass
WCDMA Band V	RMC 12.2kbps	2.72	2.84	4.09	13	Pass

The test plots as follows:









5.5 99%&26DB BANDWIDTH

FCC 47 CFR Part 2.1049(h),
FCC 47 CFR Part 22.917(b),
FCC 47 CFR Part 24.238(b),
FCC 47 CFR Part 27.53(h)

Test Requirement: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 4

Test Method: No Limit, 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 low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

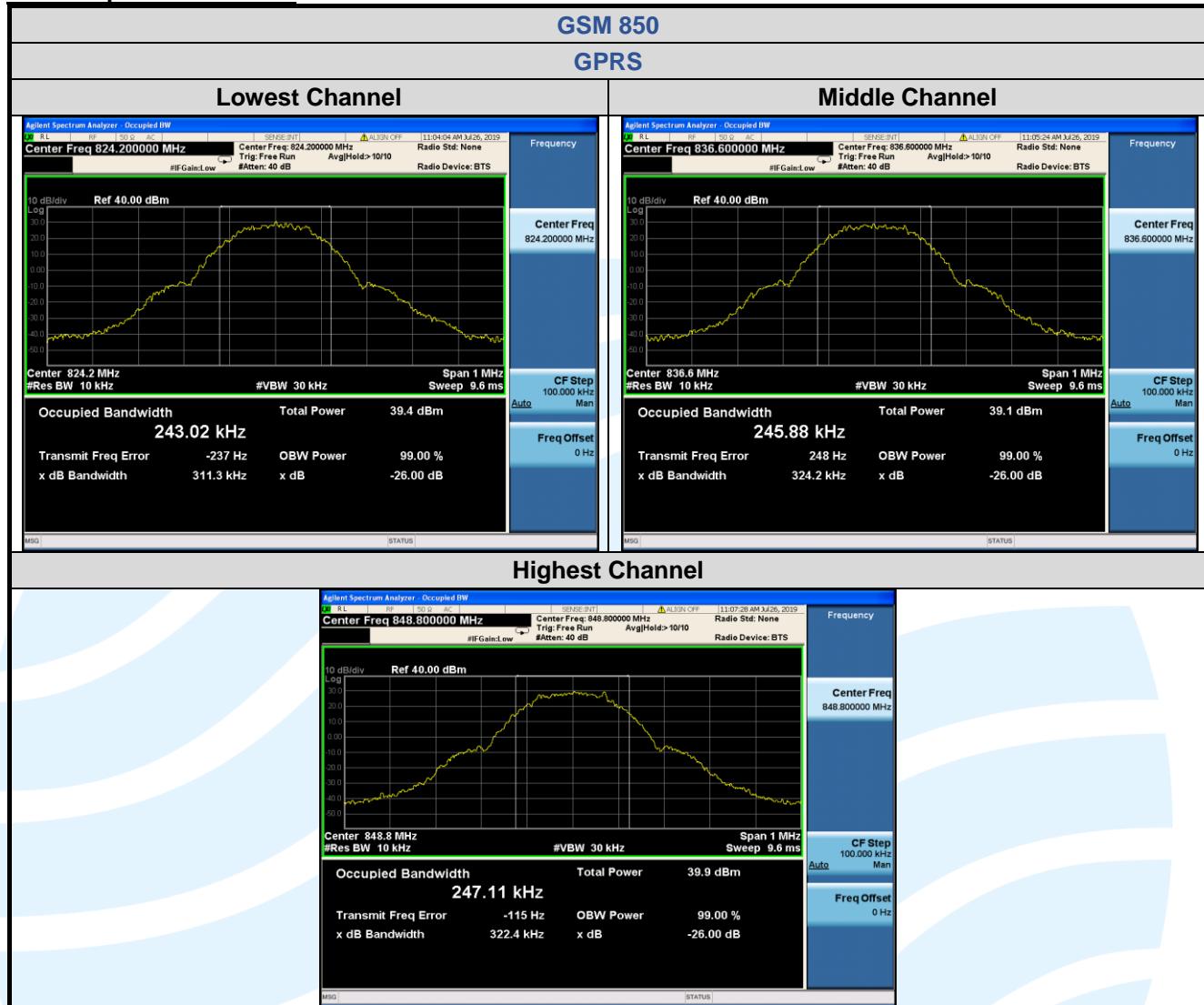
Test Mode: Link mode

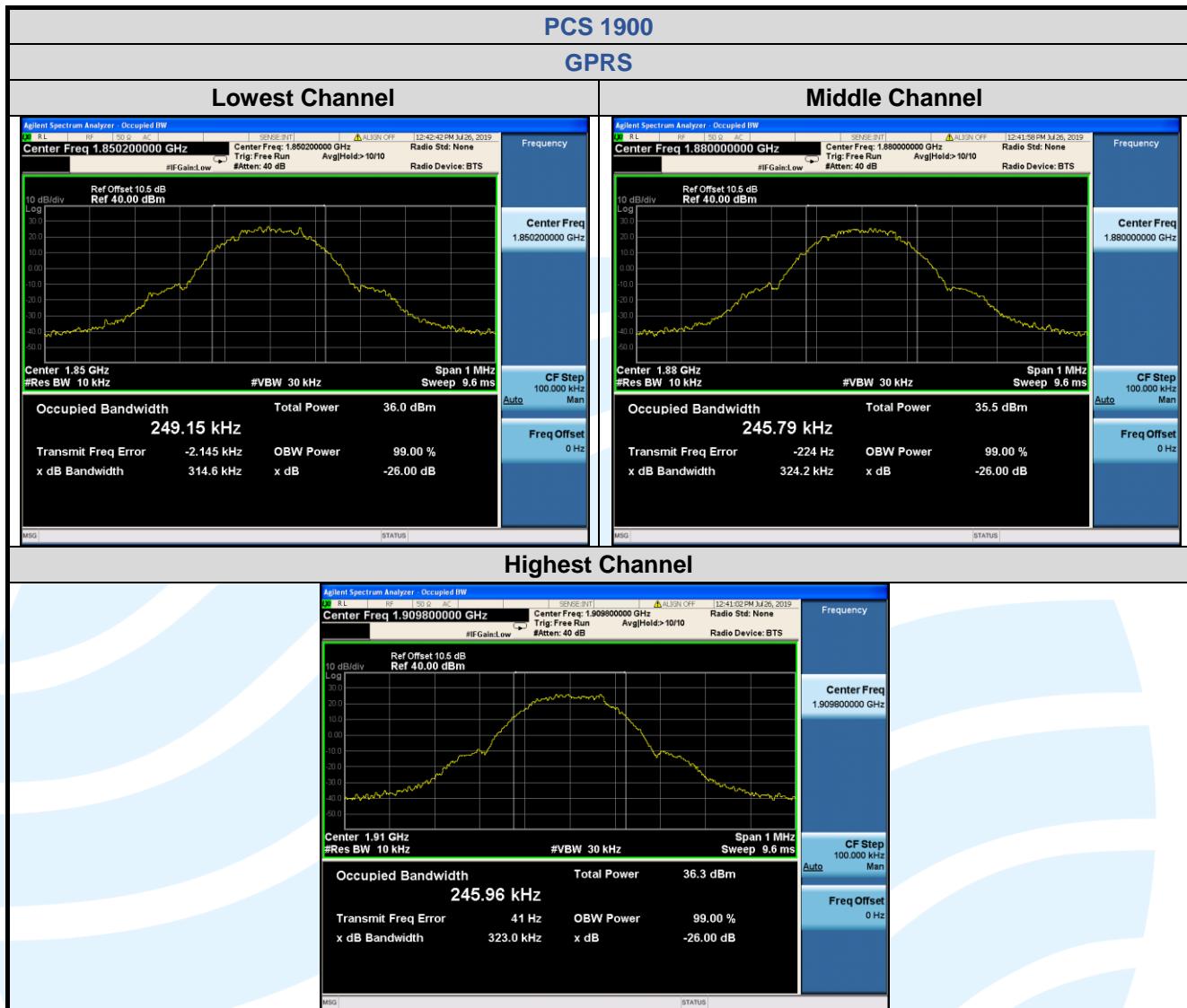
Test Results: Pass

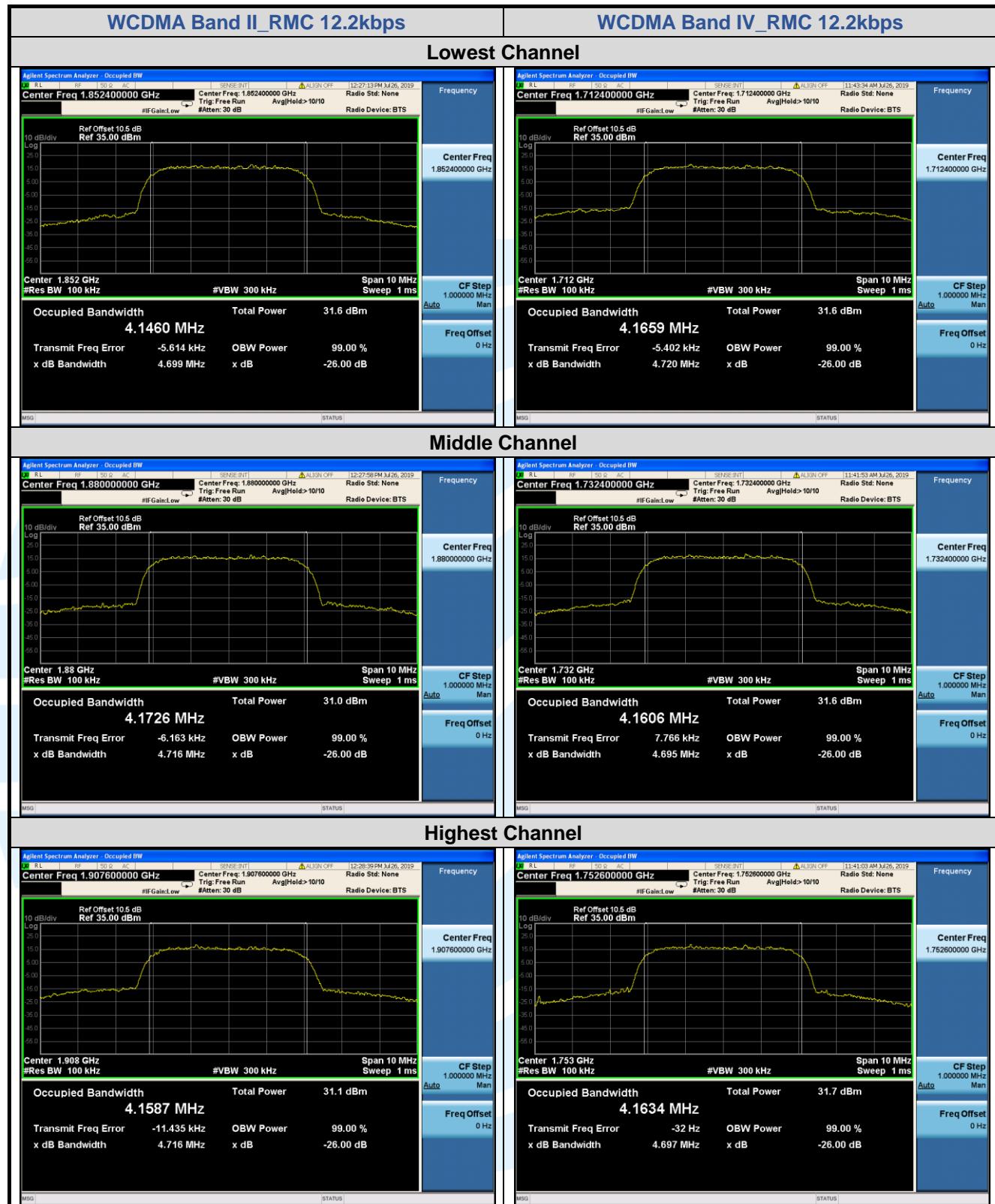
Test Data: See table below

Bands	Modulation	Channel	Frequency (MHz)	26 dB BW (kHz)	99% BW (kHz)
GSM 850	GPRS	128	824.2	311.3	243.02
		190	836.6	324.2	245.88
		251	848.8	322.4	247.11
PCS 1900	GPRS	512	1850.2	314.6	249.15
		661	1880.0	324.2	245.79
		810	1909.8	323.0	245.96
Bands	Modulation	Channel	Frequency (MHz)	26 dB BW (MHz)	99% BW (MHz)
WCDMA Band II	RMC 12.2kbps	9262	1852.4	4.699	4.1460
		9400	1880.0	4.716	4.1726
		9538	1907.6	4.716	4.1587
WCDMA Band IV	RMC 12.2kbps	1312	1712.4	4.720	4.1659
		1412	1732.4	4.695	4.1606
		1513	1752.6	4.697	4.1634
WCDMA Band V	RMC 12.2kbps	4132	826.4	4.681	4.1383
		4182	836.4	4.689	4.1608
		4233	846.6	4.673	4.1558

The test plots as follows:









5.6 BAND EDGE AT ANTENNA TERMINALS

FCC 47 CFR Part 2.1051,

FCC 47 CFR Part 22.917(a),

FCC 47 CFR Part 24.238(a),

FCC 47 CFR Part 27.53(h)(1)

Test Requirement: ANSI C63.26-2015 & KDB 971168 D01v03r01

Test Method:

Limit:

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. The emission limit equal to -13 dBm.

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.

For each band edge measurement:

- 1) Set the spectrum analyzer span to include the block edge frequency.
- 2) Set a marker to point the corresponding band edge frequency in each test case.
- 3) Set display line at -13 dBm
- 4) Set resolution bandwidth to at least 1% of emission bandwidth.
- 5) Set spectrum analyzer with RMS detector.
- 6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

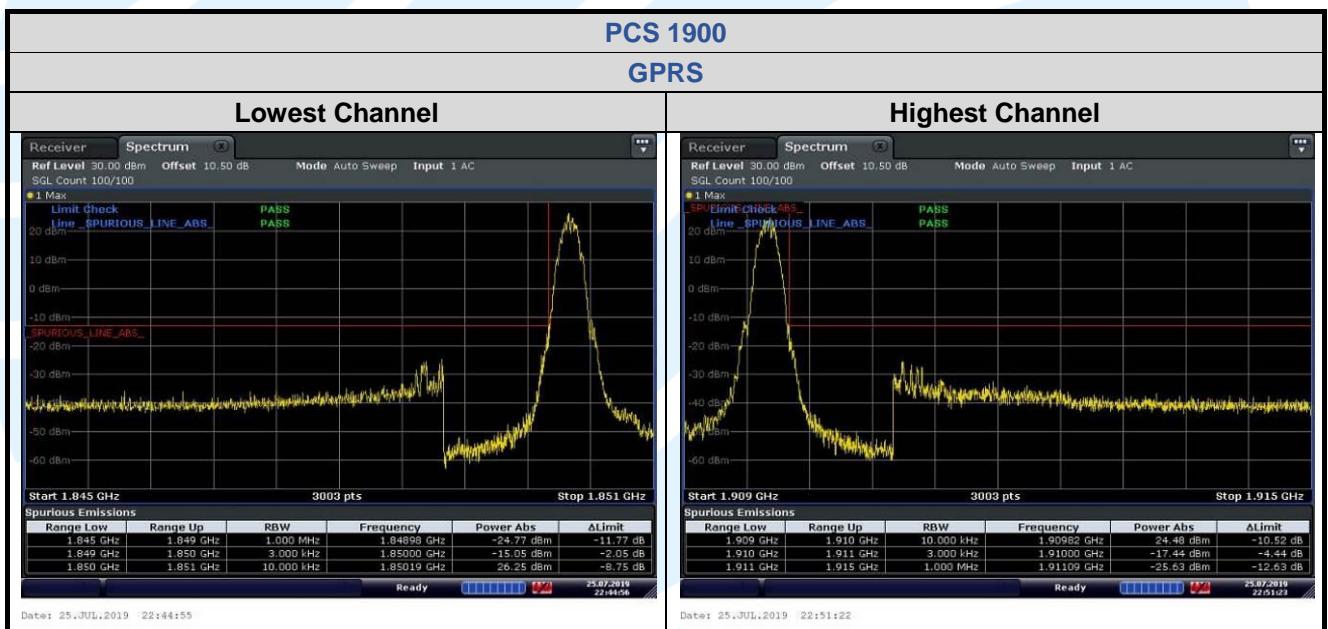
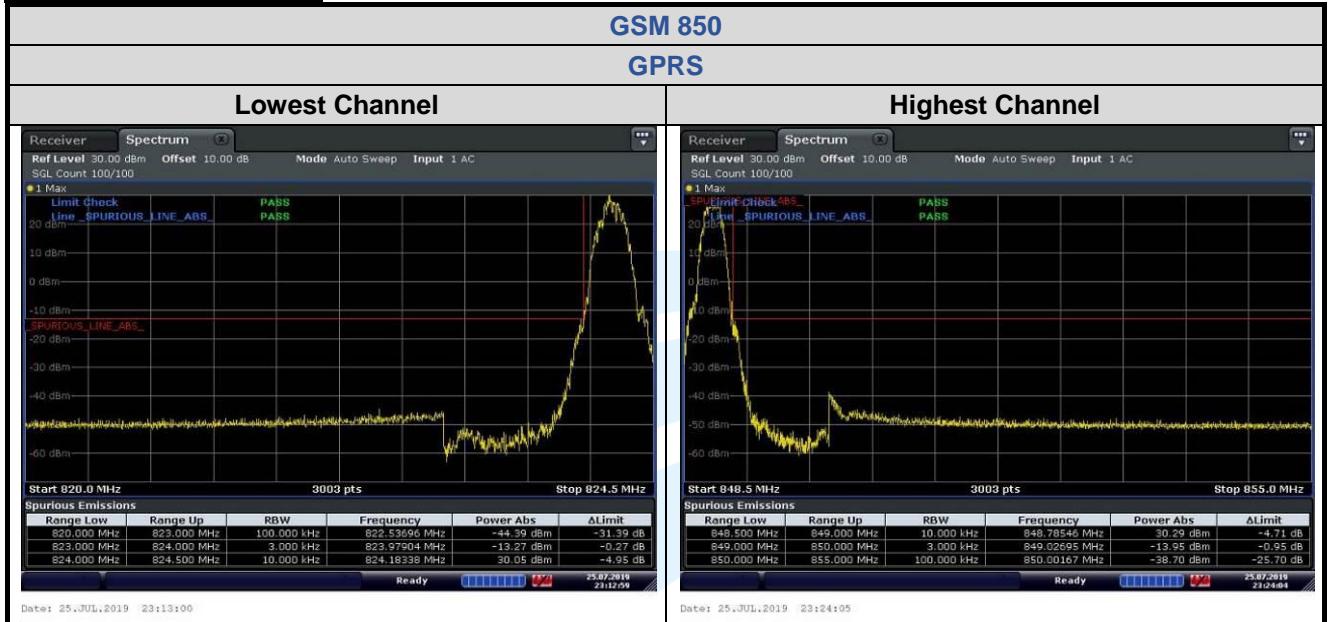
Test Setup: Refer to section 4.2.2 for details.

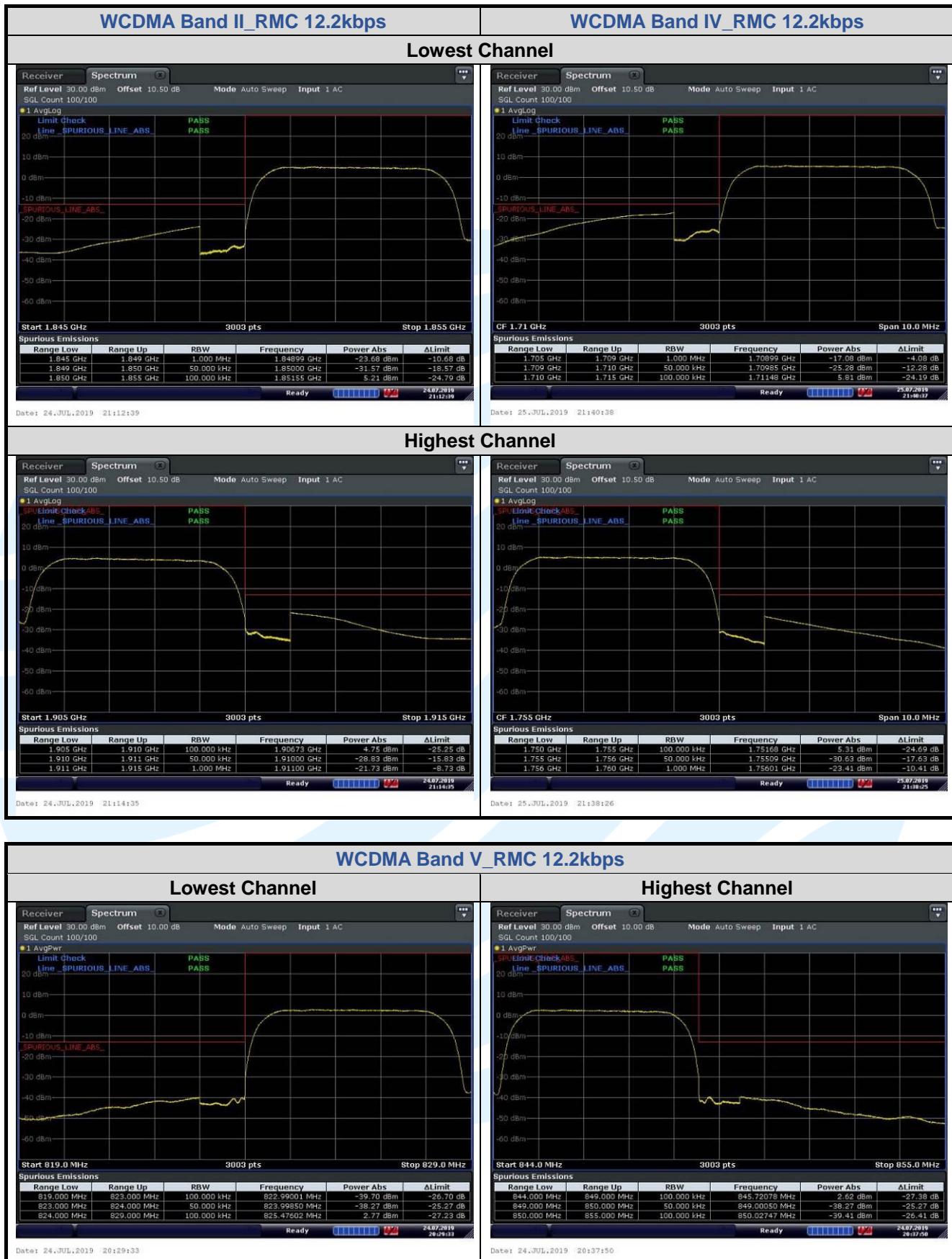
Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

The test plots as follows:





5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

FCC 47 CFR Part 2.1051,

FCC 47 CFR Part 22.917(a)(b),

FCC 47 CFR Part 24.238(a)(b),

FCC 47 CFR Part 27.53(h)(1)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

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. The emission limit equal to -13 dBm.

Test Procedure:

The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

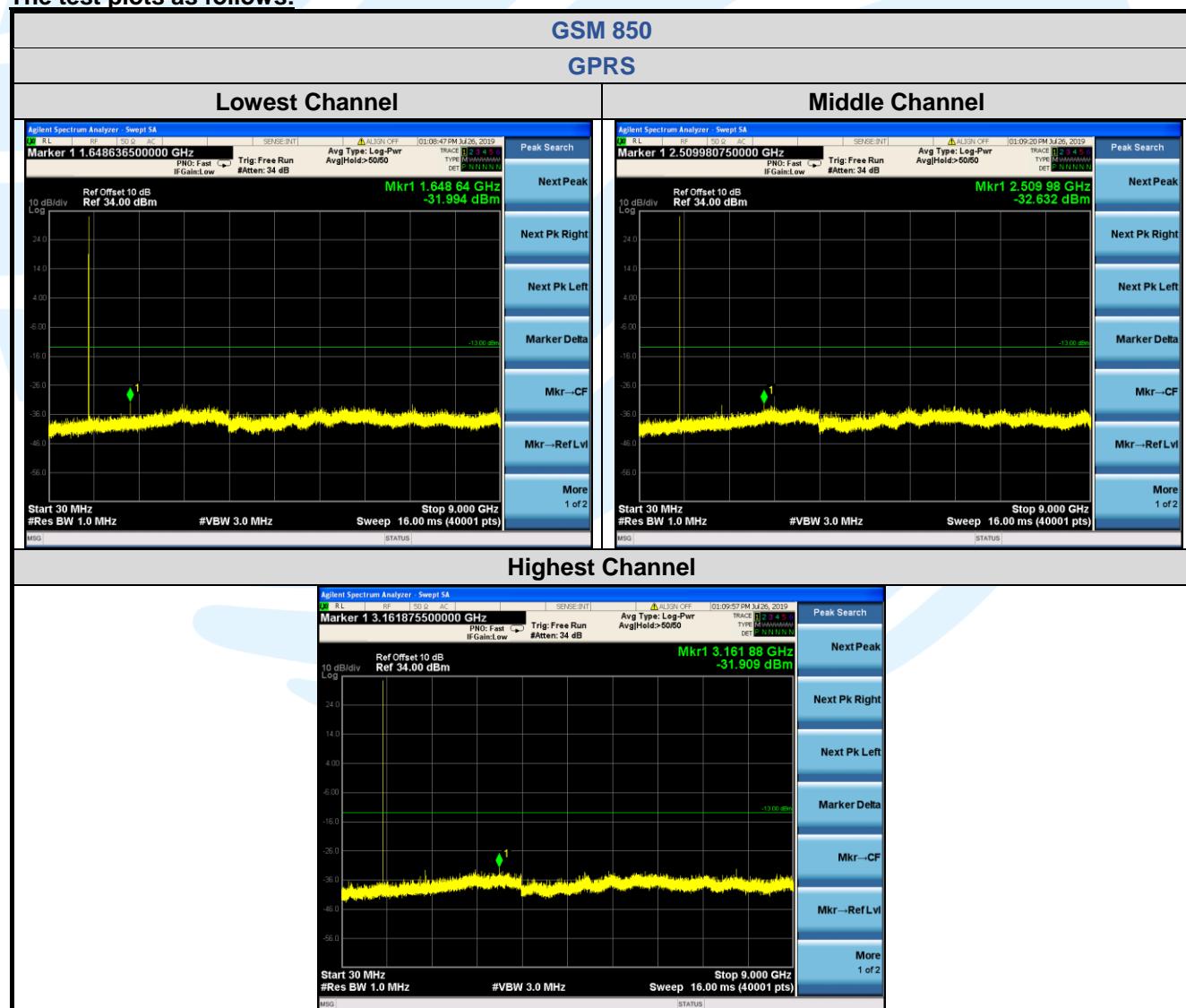
Test Setup: Refer to section 4.2.2 for details.

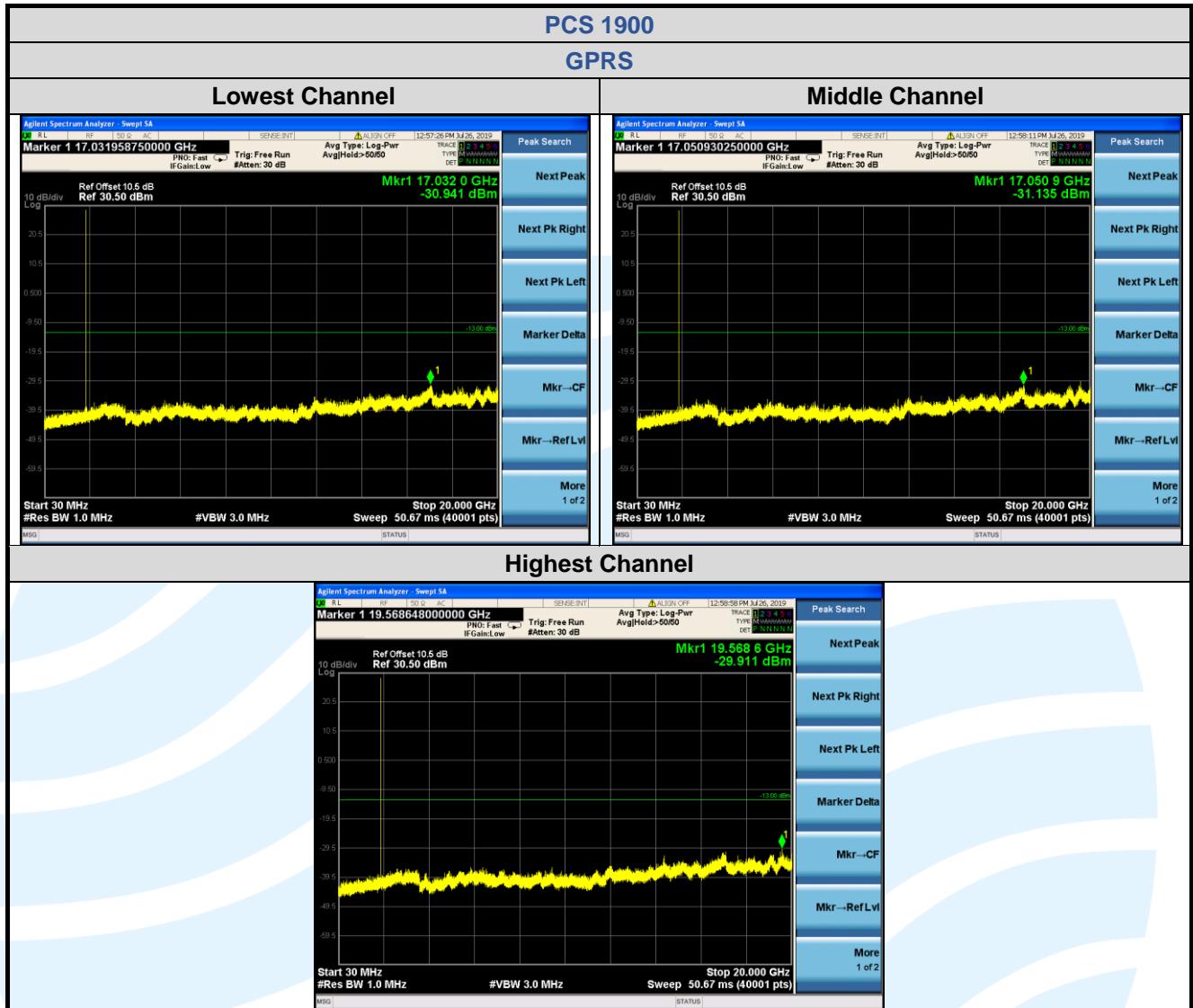
Instruments Used: Refer to section 3 for details

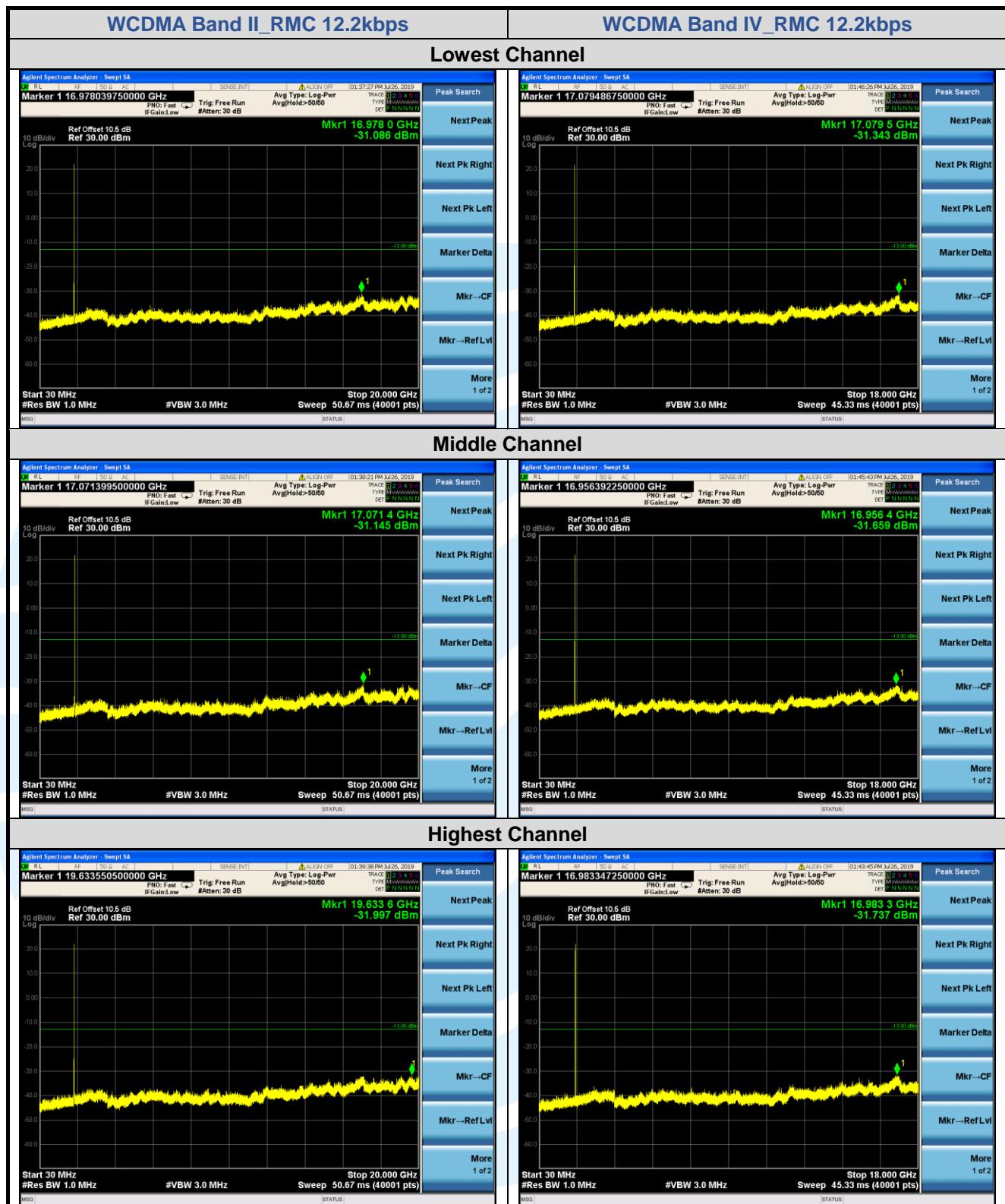
Test Mode: Link mode

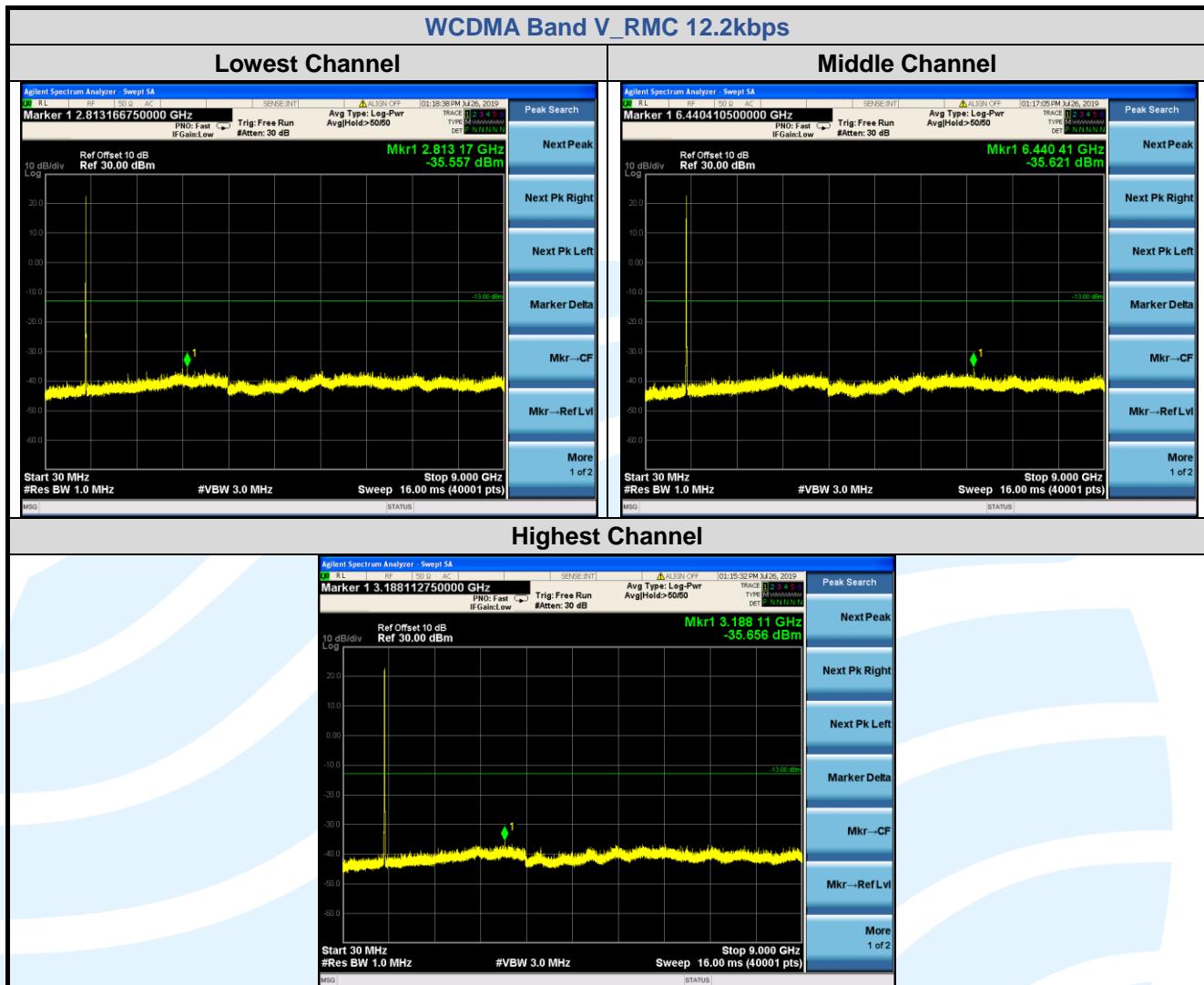
Test Results: Pass

The test plots as follows:









5.8 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: FCC 47 CFR Part 2.1053,
 FCC 47 CFR Part 22.917(a)(b),
 FCC 47 CFR Part 24.238(a)(b),
 FCC 47 CFR Part 27.53(h)(1)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 7

Limits:

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. The emission limit equal to -13 dBm.

Test Setup: Refer to section 4.2.1 for details.

Test Procedures: KDB 971168 D01v03r01 Section 7

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GPRS_Lowest Channel							
1	53.379	-82.94	24.76	-58.18	-13.00	-45.18	Horizontal
2	2472.600	-52.46	9.16	-43.30	-13.00	-30.30	Horizontal
3	4121.000	-54.23	14.53	-39.70	-13.00	-26.70	Horizontal
4	250.486	-55.37	1.04	-54.33	-13.00	-41.33	Vertical
5	2472.600	-64.79	11.49	-53.30	-13.00	-40.30	Vertical
6	4121.000	-64.75	15.99	-48.76	-13.00	-35.76	Vertical
GPRS_Middle Channel							
1	611.462	-60.18	8.57	-51.61	-13.00	-38.61	Horizontal
2	2509.800	-59.36	9.17	-50.19	-13.00	-37.19	Horizontal
3	4183.000	-59.82	14.67	-45.15	-13.00	-32.15	Horizontal
4	615.774	-59.01	8.63	-50.38	-13.00	-37.38	Vertical
5	2509.800	-62.62	11.46	-51.16	-13.00	-38.16	Vertical
6	4183.000	-62.65	16.05	-46.60	-13.00	-33.60	Vertical
GPRS_Highest Channel							
1	771.047	-60.65	10.77	-49.88	-13.00	-36.88	Horizontal
2	1697.600	-49.79	2.78	-47.01	-13.00	-34.01	Horizontal
3	4244.000	-59.25	14.78	-44.47	-13.00	-31.47	Horizontal
4	798.620	-60.33	11.16	-49.17	-13.00	-36.17	Vertical
5	2546.400	-62.94	11.45	-51.49	-13.00	-38.49	Vertical
6	4244.000	-65.00	16.09	-48.91	-13.00	-35.91	Vertical

PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GPRS_Lowest Channel							
1	979.139	-82.58	16.01	-66.57	-13.00	-53.57	Horizontal
2	3700.400	-67.19	13.77	-53.42	-13.00	-40.42	Horizontal
3	5550.600	-57.07	16.02	-41.05	-13.00	-28.05	Horizontal
4	952.000	-82.86	14.79	-68.07	-13.00	-55.07	Vertical
5	3700.400	-66.86	15.13	-51.73	-13.00	-38.73	Vertical
6	5550.600	-46.21	16.91	-29.30	-13.00	-16.30	Vertical
GPRS_Middle Channel							
1	881.184	-82.65	12.27	-70.38	-13.00	-57.38	Horizontal
2	3760.000	-64.63	13.87	-50.76	-13.00	-37.76	Horizontal
3	5640.000	-52.73	16.10	-36.63	-13.00	-23.63	Horizontal
4	868.886	-80.69	12.01	-68.68	-13.00	-55.68	Vertical
5	3760.000	-63.44	15.28	-48.16	-13.00	-35.16	Vertical
6	5640.000	-49.61	16.97	-32.64	-13.00	-19.64	Vertical
GPRS_Highest Channel							
1	979.139	-82.28	16.01	-66.27	-13.00	-53.27	Horizontal
2	3819.600	-60.65	13.98	-46.67	-13.00	-33.67	Horizontal
3	5729.400	-54.05	16.37	-37.68	-13.00	-24.68	Horizontal
4	655.977	-80.25	8.96	-71.29	-13.00	-58.29	Vertical
5	3819.600	-62.15	15.44	-46.71	-13.00	-33.71	Vertical
6	5729.400	-51.21	17.23	-33.98	-13.00	-20.98	Vertical

WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	124.050	-66.42	-1.97	-68.39	-13.00	-55.39	Horizontal
2	3704.800	-63.58	13.78	-49.80	-13.00	-36.80	Horizontal
3	9262.000	-60.81	20.97	-39.84	-13.00	-26.84	Horizontal
4	107.785	-67.85	-2.17	-70.02	-13.00	-57.02	Vertical
5	3704.800	-64.09	15.14	-48.95	-13.00	-35.95	Vertical
6	5557.200	-65.50	16.90	-48.60	-13.00	-35.60	Vertical
RMC 12.2kbps_ Middle Channel							
1	655.977	-80.25	8.96	-71.29	-13.00	-58.29	Horizontal
2	3760.000	-65.11	13.87	-51.24	-13.00	-38.24	Horizontal
3	9400.000	-58.47	21.19	-37.28	-13.00	-24.28	Horizontal
4	107.785	-67.74	-2.17	-69.91	-13.00	-56.91	Vertical
5	3760.000	-65.60	15.28	-50.32	-13.00	-37.32	Vertical
6	9400.000	-63.62	19.91	-43.71	-13.00	-30.71	Vertical
RMC 12.2kbps_ Highest Channel							
1	655.977	-80.25	8.96	-71.29	-13.00	-58.29	Horizontal
2	3815.200	-65.88	13.97	-51.91	-13.00	-38.91	Horizontal
3	9538.000	-57.34	21.24	-36.10	-13.00	-23.10	Horizontal
4	121.462	-66.35	-2.08	-68.43	-13.00	-55.43	Vertical
5	3815.200	-65.48	15.43	-50.05	-13.00	-37.05	Vertical
6	9538.000	-62.18	19.87	-42.31	-13.00	-29.31	Vertical

WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	123.181	-64.71	-2.00	-66.71	-13.00	-53.71	Horizontal
2	3424.800	-67.16	12.45	-54.71	-13.00	-41.71	Horizontal
3	5137.200	-69.04	16.11	-52.93	-13.00	-39.93	Horizontal
4	108.546	-69.18	-2.09	-71.27	-13.00	-58.27	Vertical
5	3424.800	-65.16	13.70	-51.46	-13.00	-38.46	Vertical
6	5137.200	-68.30	17.08	-51.22	-13.00	-38.22	Vertical
RMC 12.2kbps_ Middle Channel							
1	655.977	-80.25	8.96	-71.29	-13.00	-58.29	Horizontal
2	3464.800	-64.38	12.74	-51.64	-13.00	-38.64	Horizontal
3	5197.200	-69.91	16.21	-53.70	-13.00	-40.70	Horizontal
4	122.319	-67.71	-2.05	-69.76	-13.00	-56.76	Vertical
5	3464.800	-63.81	13.97	-49.84	-13.00	-36.84	Vertical
6	5197.200	-67.66	17.17	-50.49	-13.00	-37.49	Vertical
RMC 12.2kbps_ Highest Channel							
1	123.181	-65.25	-2.00	-67.25	-13.00	-54.25	Horizontal
2	3505.200	-63.49	13.03	-50.46	-13.00	-37.46	Horizontal
3	5241.490	-66.06	16.20	-49.86	-13.00	-36.86	Horizontal
4	107.785	-68.44	-2.17	-70.61	-13.00	-57.61	Vertical
5	3505.200	-64.35	14.24	-50.11	-13.00	-37.11	Vertical
6	5257.800	-65.63	17.15	-48.48	-13.00	-35.48	Vertical

WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	32.184	-85.78	32.91	-52.87	-13.00	-39.87	Horizontal
2	1652.800	-61.41	2.43	-58.98	-13.00	-45.98	Horizontal
3	2479.200	-57.06	9.16	-47.90	-13.00	-34.90	Horizontal
4	32.184	-85.53	32.91	-52.62	-13.00	-39.62	Vertical
5	1652.800	-66.81	4.08	-62.73	-13.00	-49.73	Vertical
6	2479.200	-64.67	11.48	-53.19	-13.00	-40.19	Vertical
RMC 12.2kbps_ Middle Channel							
1	427.292	-87.58	33.88	-53.70	-13.00	-40.70	Horizontal
2	1672.800	-68.23	2.59	-65.64	-13.00	-52.64	Horizontal
3	2509.200	-65.70	9.17	-56.53	-13.00	-43.53	Horizontal
4	509.356	-88.44	35.18	-53.26	-13.00	-40.26	Vertical
5	1672.800	-66.77	4.31	-62.46	-13.00	-49.46	Vertical
6	2509.200	-57.48	11.46	-46.02	-13.00	-33.02	Vertical
RMC 12.2kbps_ Highest Channel							
1	573.988	-87.85	36.53	-51.32	-13.00	-38.32	Horizontal
2	1693.200	-60.77	2.75	-58.02	-13.00	-45.02	Horizontal
3	2539.800	-64.42	9.22	-55.20	-13.00	-42.20	Horizontal
4	32.184	-88.09	32.91	-55.18	-13.00	-42.18	Vertical
5	1693.200	-68.54	4.54	-64.00	-13.00	-51.00	Vertical
6	2539.800	-60.00	11.45	-48.55	-13.00	-35.55	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit

5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 &
 FCC 47 CFR Part 22.355 &
 FCC 47 CFR Part 24.235 &
 FCC 47 CFR Part 27.54

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

FCC 47 CFR Part 22.355,

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

FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54

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

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

- 1) Use CMW 500 with Frequency Error measurement capability.
 - a) Temp. = -30° to $+50^{\circ}\text{C}$
 - b) Voltage = low voltage, 3.5 Vdc, Normal, 3.8 Vdc and High voltage, 4.3 Vdc.
- 2) Frequency Stability vs Temperature:

The EUT is place inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize.

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

3) Frequency Stability vs Voltage:

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

Equipment Used: Refer to section 3 for details.

Test Result: Pass

Modulation	Channel/ Frequency (MHz)	Voltage	Temperature	Deviation	Deviation	Limit	Result
		(Vdc)	($^{\circ}\text{C}$)	(Hz)	(ppm)	(ppm)	
GSM 850							
GPRS	190 / 836.6	VL	TN	-14	-0.0167	± 2.5	Pass
		VN		7	0.0084	± 2.5	Pass
		VH		19	0.0227	± 2.5	Pass
		VN	50	-16	-0.0191	± 2.5	Pass
			40	12	0.0143	± 2.5	Pass
			30	-8	-0.0096	± 2.5	Pass
			20	2	0.0024	± 2.5	Pass
			10	5	0.0060	± 2.5	Pass
			0	15	0.0179	± 2.5	Pass
			-10	10	0.0120	± 2.5	Pass
			-20	15	0.0179	± 2.5	Pass
			-30	-4	-0.0048	± 2.5	Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
PCS 1900							
GPRS	661 / 1880.0	VL	TN	-3	-0.0016	N/A	Pass
				-11	-0.0059		Pass
				-11	-0.0059		Pass
		VN	50	8	0.0043		Pass
			40	5	0.0027		Pass
			30	-13	-0.0069		Pass
			20	16	0.0085		Pass
			10	9	0.0048		Pass
			0	3	0.0016		Pass
			-10	1	0.0005		Pass
			-20	-13	-0.0069		Pass
			-30	12	0.0064		Pass
Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
WCDMA Band II							
RMC 12.2kbps	9400 / 1880.0	VL	TN	4	0.0021	N/A	Pass
				20	0.0106		Pass
				8	0.0043		Pass
		VN	50	5	0.0027		Pass
			40	12	0.0064		Pass
			30	-3	-0.0016		Pass
			20	5	0.0027		Pass
			10	-20	-0.0106		Pass
			0	-10	-0.0053		Pass
			-10	14	0.0074		Pass
			-20	-15	-0.0080		Pass
			-30	-10	-0.0053		Pass
Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
WCDMA Band IV							
RMC 12.2kbps	1412 / 1732.4	VL	TN	-6	-0.0035	N/A	Pass
				18	0.0104		Pass
				12	0.0069		Pass
		VN	50	-10	-0.0058		Pass
			40	-13	-0.0075		Pass
			30	-10	-0.0058		Pass
			20	-20	-0.0115		Pass
			10	-6	-0.0035		Pass
			0	-15	-0.0087		Pass
			-10	10	0.0058		Pass
			-20	1	0.0006		Pass
			-30	-11	-0.0063		Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
WCDMA Band V							
RMC 12.2kbps	4182 / 836.4	VL	TN	-5	-0.0060	± 2.5	Pass
				-9	-0.0108	± 2.5	Pass
				5	0.0060	± 2.5	Pass
		VN	50	10	0.0120	± 2.5	Pass
			40	6	0.0072	± 2.5	Pass
			30	-15	-0.0179	± 2.5	Pass
			20	12	0.0143	± 2.5	Pass
			10	-18	-0.0215	± 2.5	Pass
			0	1	0.0012	± 2.5	Pass
			-10	-6	-0.0072	± 2.5	Pass
			-20	13	0.0155	± 2.5	Pass
			-30	-5	-0.0060	± 2.5	Pass

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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