NVLAP TESTING
NVLAP LAB CODE 600341-0

BACL Bay Area Compliance Labs Corp.

TEST REPORT

Applicant:	**INGENICO**
Address:	**9 Avenue de la gare - Rovaltain TGV,BP25156,Valence Cedex9,26958,France**
Product Name:	**Smart POS Terminal**
FCC ID:	**XKB-DX8CL4GWBT2**
Standard(s):	**47 CFR Part 2, 47 CFR Part 22, Subpart H 47 CFR Part 24, Subpart E ,47 CFR Part 27 47 CFR Part 90 ANSI C63.26-2015**
Report Number:	**2502P42842E-RF-00E**
Report Date:	**2025/3/28**

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502P42842E-RF-00E	Original Report	2025/3/28

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Smart POS Terminal
EUT Model:	AXIUM DX8000
Operation Bands and modes:	GPRS,EDGE: 850/1900 WCDMA: Band 2/4/5 LTE: Band 2/4/5/7/12/13/17/25/26/41/66
Modulation Type:	GMSK, 8PSK, BPSK, QPSK, 16QAM
Rated Input Voltage:	DC 5V from adapter or DC 7.2V from battery
Serial Number:	2XVR-1 (For RF Conducted Test) 2XVR-10 (For Radiated spurious emission test)
EUT Received Date:	2025/1/22
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	XIAMEN KELI ELECTRONICS CO.,LTD.	SW-0983	Input: 100-240Vac~50/60Hz 0.5A Output: 5.0Vdc 2.0A

1.3 Operation Voltage (V_{DC})▲

Lowest:	6.4	Normal:	7.2	Highest:	8.4

1.4 Transmission Antenna Information▲

Antenna	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain (G_T) (dBi)	L_C (dB)
Main Antenna	Omni	GSM850	824-849	-1.54	0.1
		PCS1900	1850-1910	0.98	0.2
		WCDMA B2	1850-1910	0.98	0.2
		WCDMA B4	1710-1755	1.33	0.2
		WCDMA B5	824-849	-1.54	0.1
		LTE B2	1850-1910	0.98	0.2
		LTE B4	1710-1755	1.33	0.2
		LTE B5	824-849	-1.54	0.1
		LTE B7	2500-2570	-0.16	0.3
		LTE B12	699-716	-1.92	0.1
		LTE B13	777-787	-0.28	0.1
		LTE B17	704-716	-1.92	0.1
		LTE B25	1850-1915	0.98	0.2
		LTE B26	814-824	-1.54	0.1
		LTE B26	824-849	-1.54	0.1
		LTE B41	2496-2690	-0.16	0.3
		LTE B66	1710-1780	1.33	0.2
Note: Lc= Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.					

1.5 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC§2.1046; § 22.913;§ 24.232; §27.50; §90.635	RF Output Power	Reporting
FCC§ 2.1047	Modulation Characteristics	Not Applicable
FCC§ 2.1049; § 22.905, §22.917; § 24.238; §27.53; §90.209	Occupied Bandwidth	Compliant*
FCC§ 2.1051;§ 22.917; § 24.238; §27.53;§90.691	Spurious Emissions at Antenna Terminal	Compliant*
FCC§ 22.917; § 24.238; §27.53; §90.691	Out of band emission, Band Edge	Compliant*
FCC§ 2.1055;§ 22.355; § 24.235; §27.54;§90.213	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
FCC§ 2.1053§ 22.917; § 24.238; §27.53; §90.691	Radiated Spurious Emission	Compliant

Note 1:
Compliant*: The device built in a certified module, model:INGE808-NA, FCC ID: XKB-INGE808NA, per spot check, the RF parameters are identical with the original module report, therefore, the RF conducted test items please refer to the module report: TCWA24060013401▲, which was issued by Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. on 2024/10/14. (according to KDB 996369 D02 Module Q&A v02r02, Answer 1 b))

The Bay Area Compliance Laboratories Corp.(Dongguan) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

Note 2:
For RF Output Power item, Spot Check GSM 850 only since its power is Maximum for 2G, Spot Check WCDMA B2 only since its power is Maximum for 3G and Spot Check LTE B4 only since its power is Maximum for 4G.

3. DESCRIPTION OF TEST CONFIGURATION

3.1 EUT Operation Condition:

The maximum power was configured per 3GPP Standard for each operation modes as below setting:

GPRS/EDGE

Function: Menu select > GSM Mobile Station > GSM 850/1900
Press Connection control to choose the different menus
Press RESET > choose all the reset all settings
Connection Press Signal Off to turn off the signal and change settings
Network Support > GPRS or EGSM
Main Service > Packet Data
Service selection > Test Mode A – Auto Slot Config. off
MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting
> Slot configuration > Uplink/Gamma
> 33 dBm for GPRS 850
> 30 dBm for GPRS 1900
> 27 dBm for EGPRS 850
> 26 dBm for EGPRS 1900
BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel
Frequency Offset > + 0 Hz
Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)
BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off
P0 > 4 dB
Slot Config > Unchanged (if already set under MS signal)
TCH > choose desired test channel
Hopping > Off
Main Timeslot > 3
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)

Bit Stream > 2E9-1 PSR Bit Stream
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
Connection Press Signal on to turn on the signal and change settings

WCDMA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	**1**	**2**	**3**	**4**	**5**
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	βc	11/15	6/15	15/15	2/15	15/15
	βd	15/15	15/15	9/15	1 / 5	0
	βec	20 /225	12/15	30 15	2/15	5/15
	βc/ βd	11/15	6/15	15/9	2/15	-
	βhs	22/15	12/15	30 15	4/15	5/15
	CM (dB)	1.0	3.0	2.0	3.0	1.0
	PR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	Ahs=βhs/ βc	30/15				
HSUPA Specific Settings	DE-DPCCH	6		8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	5	67	92	71	81
	Associated Max UL Data Rate ps	242.1	174.9	482.8	205.8	308.9
	Reference E_F 1	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	

LTE (FDD):

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23[1]	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

LTE(TDD):

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle = Extended cyclic prefix in uplink x (T_s) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
where
T_s = 1/(15000 x 2048) seconds

3.2 Support Equipment List and Details

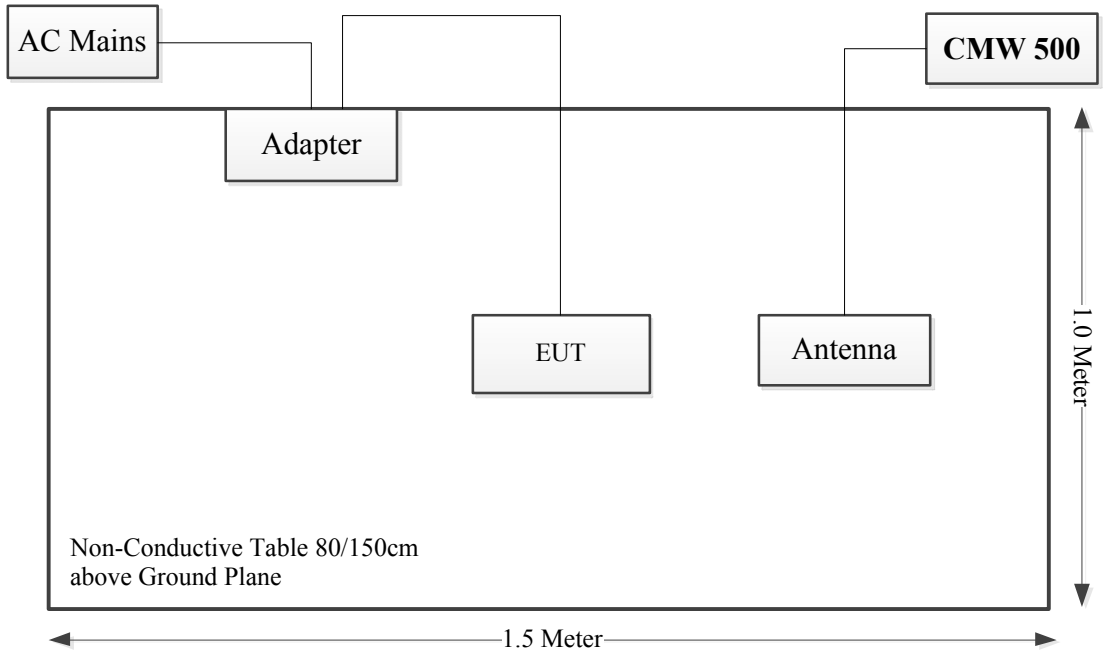
Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	144976
InHand	Antenna	SMA	AANT090033

3.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	Adapter	EUT
Signal Cable	No	No	3	Wideband Radio Communication Tester	Antenna

3.4 Block Diagram of Test Setup

Radiated Spurious Emission:



3.5 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 829273, the FCC Designation No.: CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.6 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
RF Frequency	$\pm 0.082 \times 10^{-6}$

4. REQUIREMENTS AND TEST PROCEDURES

4.1 Applicable Standard for Part 22 Subpart H

4.1.1 RF Output Power

FCC §22.913
(a)(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.

(d) *Power measurement.* Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-toaverage ratio (PAR) of the transmission must not exceed 13 dB. Power measurements for base transmitters and repeaters must be made in accordance with either of the following:
(1) A Commission-approved average power technique (*see* FCC Laboratory's Knowledge Database); or
(2) For purposes of this section, peak transmit power must be measured over an interval of continuous transmission using instrumentation calibrated in terms of an rmsequivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, *etc.*, so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

4.1.2 Spurious Emissions

FCC §22.917

(a) Out of band emissions. 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.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a reference bandwidth as follows:
(1) In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
(2) In the spectrum above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz

4.1.3 Frequency stability

FCC §22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1 - Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20	20	50
50 to 450	5	5	50
450 to 512	2.5	5	5
821 to 896	1.5	**2.5**	**2.5**
928 to 929	5	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10	n/a	n/a

4.2 Applicable Standard for Part 24 Subpart E

4.2.1 RF Output Power

FCC §24.232
(c)Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

(d)Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. 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.

4.2.2 Spurious Emissions

FCC §24.238

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

(a) Out of band emissions. 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.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(c) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.

(d) Interference caused by out of band emissions. If any emission from a transmitter operating in this service results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than specified in this section.

4.2.3 Frequency stability

FCC §24.235

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

4.3 Applicable Standard for Part 27

4.3.1 RF Output Power

FCC §27.50

(a)(3) *Mobile and portable stations.*
(i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.
(ii) Mobile and portable stations are not permitted to transmit in the 2315-2320 MHz and 2345-2350 MHz bands.
(iii) *Automatic transmit power control.* Mobile and portable stations transmitting in the 2305-2315 MHz band or in the 2350-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications.
(iv) *Prohibition on external vehicle-mounted antennas.* The use of external vehicle-mounted antennas for mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band is prohibited.

(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

(c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

(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. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(h) The following power limits shall apply in the BRS and EBS:
(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

4.3.2 Spurious Emissions

FCC §27.53

(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:
(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

(c)For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to – 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and – 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(h) AWS emission limits

(1) ***General protection levels.*** Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}$ (P) dB.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

4.3.3 Frequency stability

FCC §27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

4.4 Applicable Standard For Part 90:

4.4.1 RF Output Power

FCC §90.635

(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

4.4.2 Spurious Emissions

FCC §90.691

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

4.4.3 Frequency stability

FCC §90.213

809-824 MHz band, 2.5ppm for 2W or less output power.

4.5 Test Method

4.5.1 Transmitter output power, e.r.p. and e.i.r.p

According to CFR Part 2.1046, ANSI C63.26-2015 Section 5.2.5.5:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

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

where:

ERP or EIRP = effective radiated power or equivalent isotropically 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.

Test Setup Block:

CMW500

Note: The Insertion loss of the RF cable and coaxial Attenuator was offset into the Reading of CMW500.

4.5.2 Occupied Bandwidth

According to ANSI C63.26-2015 Section 5.4.4

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of 1.5 × OBW is sufficient).

b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.

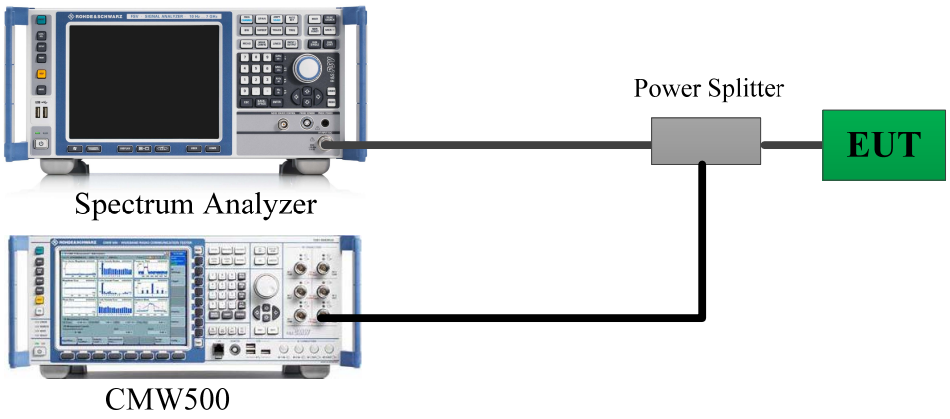
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3. NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

d) Set the detection mode to peak, and the trace mode to max-hold.

e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.

f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

Test Setup Block:



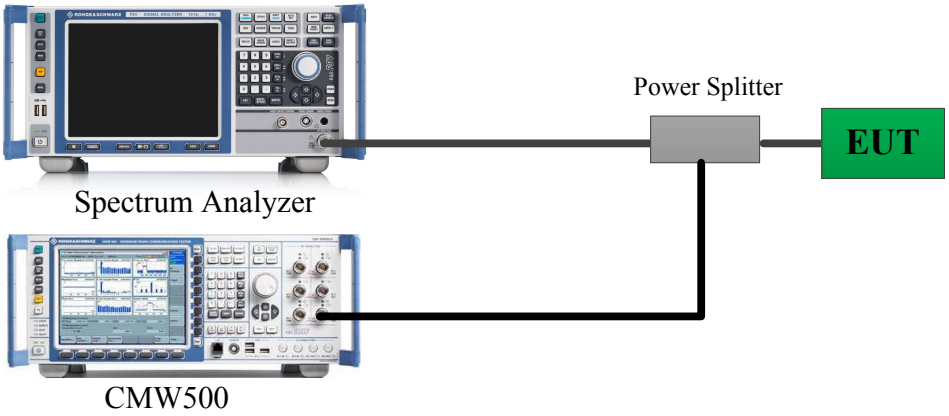
Note: The Insertion loss of the RF cable and Power Splitter was offset into the Reading of Spectrum Analyzer.

4.5.3 Transmitter unwanted emissions-at antenna terminals

According to ANSI C63.26-2015 Section 5.7.4:

the applicable rule part specifies the reference bandwidth for measuring unwanted emission levels (typically, 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz),8 effectively depicting the unwanted emission limit in terms of a power spectral density. In those cases where no reference bandwidth is explicitly specified, the values in the preceding sentence should be used.

Test Setup Block:



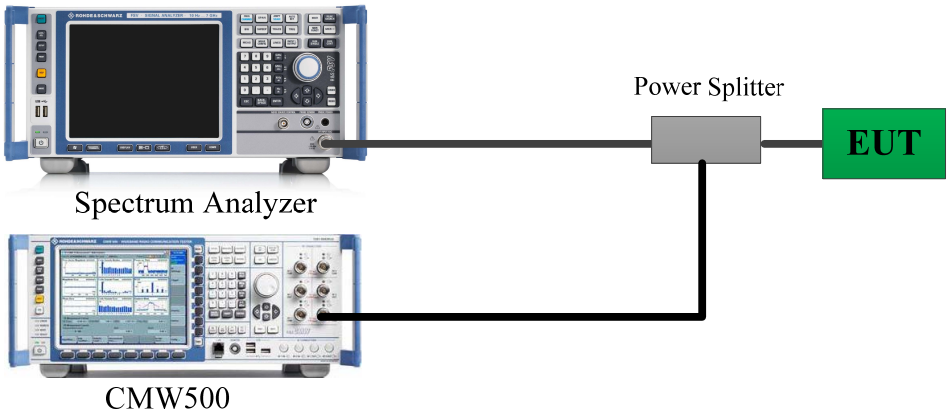
Note: The Insertion loss of the RF cable and Power Splitter was offset into the Reading of Spectrum Analyzer.

4.5.4 Transmitter unwanted emissions-Out of band emission

According to ANSI C63.26-2015 Section 5.7.3:

Typically, a measurement (resolution) bandwidth smaller than the reference bandwidth is allowed for measurements within a specified frequency range at the edge of the authorized frequency block/band (e.g., within the first Y MHz outside of the authorized frequency band/block, where the value of Y is specified in the relevant rule part). Some FCC out-of-band emission rules permit the use of a narrower RBW (typically limited to a minimum RBW of 1 % of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth. Beyond the specified frequency range in which this relaxation of the uniform reference bandwidth is permitted, it typically is also acceptable to use a narrower RBW (again limited to a minimum of 1 % of OBW) to increase accuracy, but the measurement result must subsequently be integrated over the full reference bandwidth.

Test Setup Block:



Note: The Insertion loss of the RF cable and Power Splitter was offset into the Reading of Spectrum Analyzer.

4.5.5 Frequency stability

According to ANSI C63.26-2015 Section 5.6:

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage.

The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is tested:

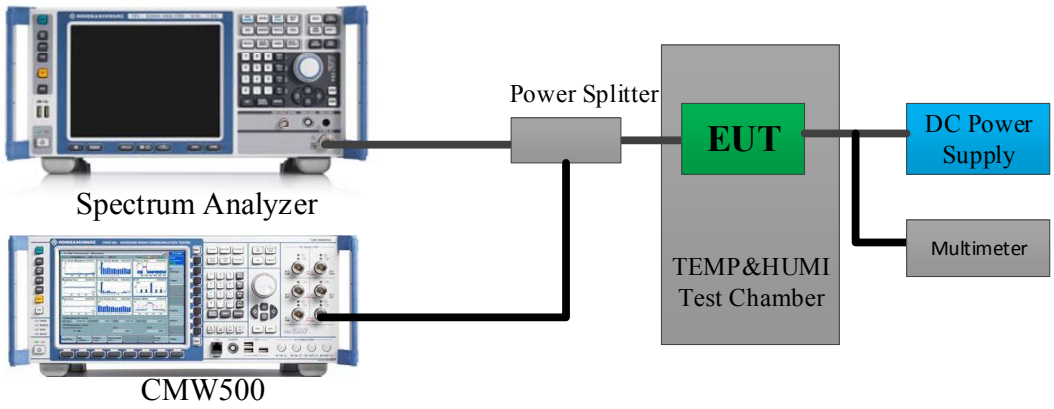
a) At 10 °C intervals of temperatures between −30 °C and +50 °C at the manufacturer's rated supply voltage, and

b) At +20 °C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage then the −15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

During the test all necessary settings, adjustments and control of the EUT have to be performed without disturbing the test environment, i.e., without opening the environmental chamber. The frequency stabilities can be maintained to a lesser temperature range provided that the transmitter is automatically inhibited from operating outside the lesser temperature range. For handheld equipment that is only capable of operating from internal batteries and the supply voltage cannot be varied, the frequency stability tests shall be performed at the nominal battery voltage and the battery end point voltage specified by the manufacturer. An external supply voltage can be used and set at the internal battery nominal voltage, and again at the battery operating end point voltage which shall be specified by the equipment manufacturer.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy). Full details on the choice of values shall be included in the test report.

Test Setup Block:



4.5.6 Transmitter unwanted emissions- Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

Test setup:

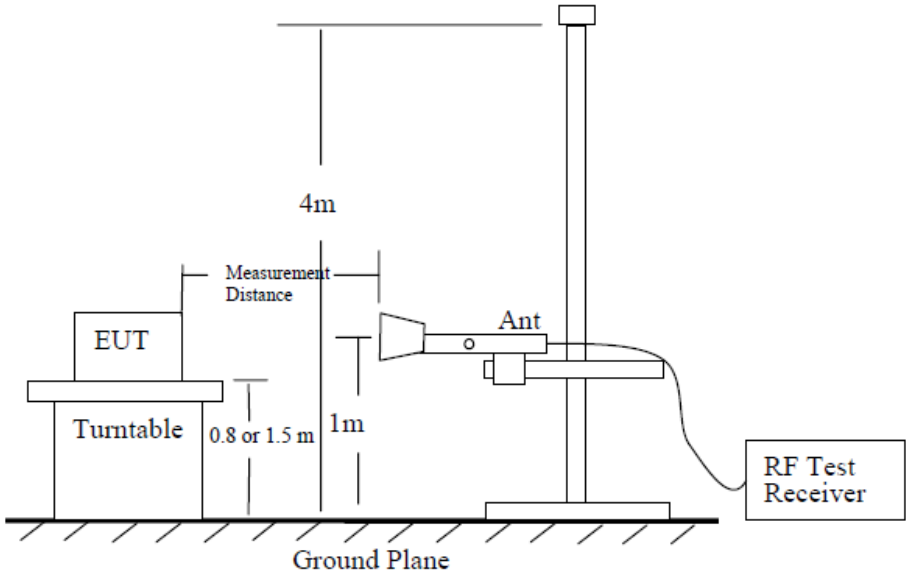


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

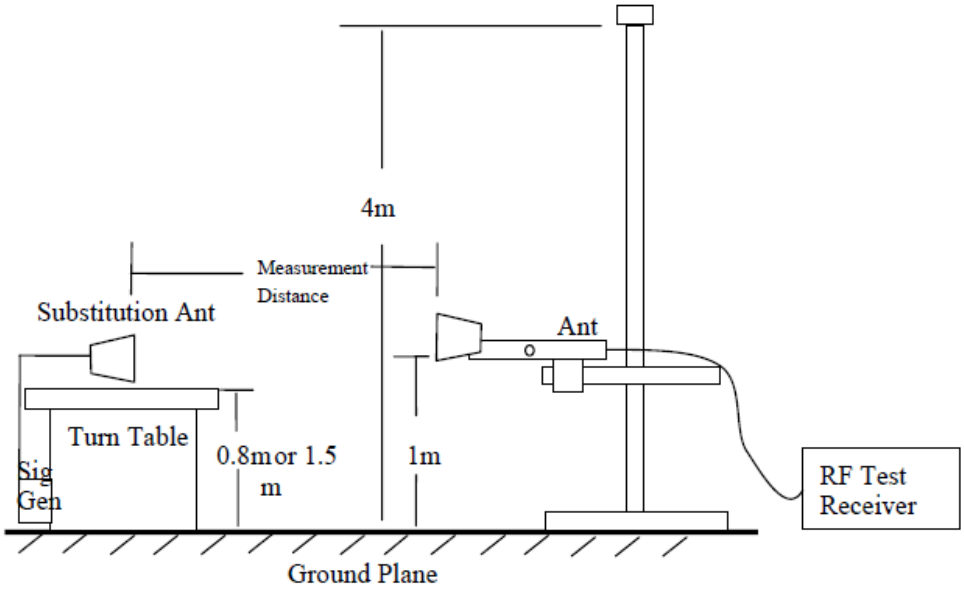


Figure 7—Substitution method set-up for radiated emission

Test Procedure:

a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.

b) Each emission under consideration shall be evaluated:

1) Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.

2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.

3) Return the turntable to the azimuth where the highest emission amplitude level was observed.

4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.

5) Record the measured emission amplitude level and frequency using the appropriate RBW.

c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.

d) Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.

e) Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.

f) Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.

g) For each emission that was detected and measured in the initial test [i.e., in step b) and step c)]:

1) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.

2) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step b) and step c).

3) Record the output power level of the signal generator when equivalence is achieved in step 2).

h) Repeat step e) through step g) with the measurement antenna oriented in the opposite polarization.

i) Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

$$Pe = Ps(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

where

Pe = equivalent emission power in dBm
Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

j) Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) − 2.15 dB. If necessary, the antenna gain can be calculated from calibrated antenna factor information

k) Provide the complete measurement results as a part of the test report.

5. Test DATA AND RESULTS

5.1 Spot Check With Maximum Conducted Output Power

Serial Number:	2XVR-1	Test Date:	2025/3/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.8	Relative Humidity: (%)	42	ATM Pressure: (kPa)	100.2

Test Equipment List and Details:					
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2024/9/5	2025/9/4

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

GSM 850 band:

Test Frequency For Each Mode:			
Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
GPRS	824.2	836.6	848.8
EDGE	824.2	836.6	848.8

Test Mode	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GPRS 1 Slot	33.12	33.01	33.24	29.45	38.45
GPRS 2 Slots	32.11	31.97	32.22	28.43	38.45
GPRS 3 Slots	30.09	30.03	30.37	26.58	38.45
GPRS 4 Slots	29.17	29.22	29.74	25.95	38.45
EDGE 1 Slot	26.18	26.15	26.37	22.58	38.45
EDGE 2 Slots	25.18	25.23	25.34	21.55	38.45
EDGE 3 Slots	23.15	23.27	22.01	19.48	38.45
EDGE 4 Slots	22.19	22.46	22.38	18.67	38.45
Note: ERP= Conducted Power(dBm) - L_C(dB) + G_T(dBd) G_T(dBd)=G_T(dBi)-2.15					
				Result:	**Pass**

WCDMA Band 2:

Test Frequency For Each Mode:			
Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	1852.4	1880	1907.6

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	24.17	24.37	24.23	25.75	33
Note: EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi)					
				Result:	**Pass**

LTE Band 4:

Test Frequency For Each Mode:			
Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1732.5	1754.3
3MHz	1711.5	1732.5	1753.5
5MHz	1712.5	1732.5	1752.5
10MHz	1715	1732.5	1750
15MHz	1717.5	1732.5	1747.5
20MHz	1720	1732.5	1745

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	24.04	23.75	23.63	25.17	30
	RB1#2	24.03	23.94	23.84		
	RB1#5	24.01	23.91	23.65		
	RB6#0	23.41	22.89	22.79		
1.4MHz 16QAM	RB1#0	23.04	22.84	23.07	24.35	30
	RB1#2	23.17	22.79	23.22		
	RB1#5	22.76	22.94	23.15		
	RB6#0	22.15	21.79	21.78		
3MHz QPSK	RB1#0	24.17	24.07	23.64	25.30	30
	RB1#8	24.06	23.79	23.69		
	RB1#14	24.08	24.05	23.84		
	RB15#0	23.37	23.16	22.99		
3MHz 16QAM	RB1#0	23.21	23.07	23.06	24.57	30
	RB1#8	23.35	22.61	23.44		

	RB1#14	23.19	22.73	23.17		
	RB15#0	22.34	21.76	21.79		
5MHz QPSK	RB1#0	24.01	23.84	23.94	25.47	30
	RB1#12	24.34	23.87	23.86		
	RB1#24	24.32	23.71	23.78		
	RB25#0	23.29	22.83	23.01		
5MHz 16QAM	RB1#0	23.04	22.71	23.13	24.26	30
	RB1#12	23.01	22.74	23.04		
	RB1#24	23.09	22.43	22.85		
	RB25#0	22.44	21.88	22.07		
10MHz QPSK	RB1#0	24.08	24.01	24.18	25.64	30
	RB1#24	24.51	23.89	24.05		
	RB1#49	24.11	23.74	23.97		
	RB50#0	23.15	23.01	23.14		
10MHz 16QAM	RB1#0	23.38	23.05	23.01	24.85	30
	RB1#24	23.72	22.79	23.35		
	RB1#49	23.2	22.84	23.57		
	RB50#0	22.31	22.16	22.15		
15MHz QPSK	RB1#0	23.84	23.78	24.04	25.26	30
	RB1#38	24.13	23.51	23.87		
	RB1#74	24.04	23.57	23.78		
	RB75#0	23.11	23.01	23.06		
15MHz 16QAM	RB1#0	23.34	23.01	23.81	24.94	30
	RB1#38	23.17	22.78	23.66		
	RB1#74	23.08	22.84	22.64		
	RB75#0	22.34	22.01	22.11		
20MHz QPSK	RB1#0	24.17	24.15	24.01	25.78	30
	RB1#49	24.65	24.04	24.12		
	RB1#99	23.99	23.81	23.97		
	RB100#0	23.35	23.03	23.16		
20MHz 16QAM	RB1#0	23.12	23.19	22.78	25.16	30
	RB1#49	24.03	23.71	23.04		
	RB1#99	23.07	23.08	22.97		
	RB100#0	22.27	22.04	22.13		
Note: EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi)						
					Result:	**Pass**

Output Power And Antenna Gain Information:

Operation Modes	Frequency (MHz)	Antenna Gain (dBi)	Conducted output power including Tune-up Tolerance▲ (dBm)	L_C (dB)	EIRP/ERP (dBm)	Limit (dBm)
GSM850	824-849	-1.54	35.0	0.1	33.36	38.45
PCS1900	1850-1910	0.98	32.0	0.2	32.78	33.0
WCDMA B2	1850-1910	0.98	26.0	0.2	26.78	33.0
WCDMA B4	1710-1755	1.33	26.0	0.2	27.13	30.0
WCDMA B5	824-849	-1.54	26.0	0.1	24.36	38.45
LTE B2	1850-1910	0.98	25.0	0.2	25.78	33.0
LTE B4	1710-1755	1.33	25.0	0.2	26.13	30.0
LTE B5	824-849	-1.54	25.0	0.1	23.36	38.45
LTE B7	2500-2570	-0.16	25.0	0.3	24.54	33.0
LTE B12	699-716	-1.92	25.0	0.1	22.98	34.77
LTE B13	777-787	-0.28	25.0	0.1	24.62	34.77
LTE B17	704-716	-1.92	25.0	0.1	22.98	34.77
LTE B25	1850-1915	0.98	25.0	0.2	25.78	34.77
LTE B26	814-824	-1.54	25.0	0.1	23.36	33.00
LTE B26	824-849	-1.54	25.0	0.1	23.36	50.0
LTE B41	2496-2690	-0.16	25.0	0.3	24.54	38.45
LTE B66	1710-1780	1.33	25.0	0.2	26.13	30.0
Note: ERP is for operation below 1 GHz and EIRP for above 1 GHz.						

5.2 Frequency Stability

Serial Number:	2XVR-1	Test Date:	2025/3/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.8	Relative Humidity: (%)	42	ATM Pressure: (kPa)	100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101947	2024/9/5	2025/9/4
Micro-Coax	Coaxial Cable	UFB205A	323308-024	2024/6/1	2025/5/31
Mini-Circuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2025/2/25	2026/2/24
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2024/9/6	2025/9/5
All-sun	Multimeter	EM305A	8348897	2024/8/16	2025/8/15
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A
Agilent	Signal Generator	E8247C	MY43321350	2024/9/5	2025/9/4
Agilent	MXG Vector Signal Generator	N5182B	MY51350142	2024/8/26	2025/8/25

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

GSM850:

Test Modulation:	GMSK		Test Channel:	836.6	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	-7.44	-0.009	2.5
	-20	7.2	-3.91	-0.005	2.5
	-10	7.2	0.96	0.001	2.5
	0	7.2	8	0.010	2.5
	10	7.2	-8.92	-0.011	2.5
	20	7.2	6.18	0.007	2.5
	30	7.2	3.35	0.004	2.5
	40	7.2	6.15	0.007	2.5
	50	7.2	-1.66	-0.002	2.5
Frequency Stability vs. Voltage	20	6.4	9.84	0.012	2.5
	20	8.4	7.43	0.009	2.5
				Result:	**Pass**

Test Modulation:	8PSK		Test Channel:	836.6	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	-6	-0.007	2.5
	-20	7.2	-1.2	-0.001	2.5
	-10	7.2	0.18	0.000	2.5
	0	7.2	-9.68	-0.012	2.5
	10	7.2	7.65	0.009	2.5
	20	7.2	-9.19	-0.011	2.5
	30	7.2	-8.92	-0.011	2.5
	40	7.2	-3.19	-0.004	2.5
	50	7.2	4.27	0.005	2.5
Frequency Stability vs. Voltage	20	6.4	3.7	0.004	2.5
	20	8.4	-4.27	-0.005	2.5
				Result:	**Pass**

PCS 1900

Test Mode:	GMSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1850.049	1850.000	1909.896	1910.000
	-20	7.2	1850.058	1850.000	1909.896	1910.000
	-10	7.2	1850.067	1850.000	1909.914	1910.000
	0	7.2	1850.076	1850.000	1909.899	1910.000
	10	7.2	1850.076	1850.000	1909.914	1910.000
	20	7.2	1850.082	1850.000	1909.924	1910.000
	30	7.2	1850.109	1850.000	1909.941	1910.000
	40	7.2	1850.088	1850.000	1909.926	1910.000
	50	7.2	1850.091	1850.000	1909.932	1910.000
Frequency Stability vs. Voltage	20	6.4	1850.109	1850.000	1909.929	1910.000
	20	8.4	1850.088	1850.000	1909.929	1910.000
					Result:	**Pass**

Test Mode:	8PSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1850.073	1850.000	1909.893	1910.000
	-20	7.2	1850.073	1850.000	1909.920	1910.000
	-10	7.2	1850.067	1850.000	1909.905	1910.000
	0	7.2	1850.067	1850.000	1909.902	1910.000
	10	7.2	1850.079	1850.000	1909.896	1910.000
	20	7.2	1850.082	1850.000	1909.923	1910.000
	30	7.2	1850.100	1850.000	1909.935	1910.000
	40	7.2	1850.103	1850.000	1909.938	1910.000
	50	7.2	1850.109	1850.000	1909.947	1910.000
Frequency Stability vs. Voltage	20	6.4	1850.100	1850.000	1909.947	1910.000
	20	8.4	1850.094	1850.000	1909.926	1910.000
					Result:	**Pass**

WCDMA Band 2:

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1850.280	1850.000	1909.666	1910.000
	-20	7.2	1850.295	1850.000	1909.660	1910.000
	-10	7.2	1850.292	1850.000	1909.681	1910.000
	0	7.2	1850.310	1850.000	1909.678	1910.000
	10	7.2	1850.307	1850.000	1909.681	1910.000
	20	7.2	1850.316	1850.000	1909.684	1910.000
	30	7.2	1850.322	1850.000	1909.702	1910.000
	40	7.2	1850.334	1850.000	1909.690	1910.000
	50	7.2	1850.328	1850.000	1909.690	1910.000
Frequency Stability vs. Voltage	20	6.4	1850.337	1850.000	1909.711	1910.000
	20	8.4	1850.334	1850.000	1909.705	1910.000
					Result:	**Pass**

WCDMA Band 4:

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1710.021	1710.000	1754.660	1755.000
	-20	7.2	1710.015	1710.000	1754.675	1755.000
	-10	7.2	1710.018	1710.000	1754.663	1755.000
	0	7.2	1710.027	1710.000	1754.681	1755.000
	10	7.2	1710.030	1710.000	1754.666	1755.000
	20	7.2	1710.033	1710.000	1754.684	1755.000
	30	7.2	1710.060	1710.000	1754.690	1755.000
	40	7.2	1710.054	1710.000	1754.699	1755.000
	50	7.2	1710.051	1710.000	1754.687	1755.000
Frequency Stability vs. Voltage	20	6.4	1710.060	1710.000	1754.702	1755.000
	20	8.4	1710.057	1710.000	1754.702	1755.000
					Result:	**Pass**

WCDMA Band 5:

Test Modulation:	WCDMA R99		Test Channel:	836.6	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	3.09	0.004	2.5
	-20	7.2	1.43	0.002	2.5
	-10	7.2	4.46	0.005	2.5
	0	7.2	-4.93	-0.006	2.5
	10	7.2	9.85	0.012	2.5
	20	7.2	-8.1	-0.010	2.5
	30	7.2	1.91	0.002	2.5
	40	7.2	-2.53	-0.003	2.5
	50	7.2	-4.3	-0.005	2.5
Frequency Stability vs. Voltage	20	6.4	7.33	0.009	2.5
	20	8.4	6.62	0.008	2.5
				Result:	**Pass**

LTE Band 2:

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1851.028	1850.000	1908.921	1910.000
	-20	7.2	1851.034	1850.000	1908.924	1910.000
	-10	7.2	1851.043	1850.000	1908.936	1910.000
	0	7.2	1851.037	1850.000	1908.933	1910.000
	10	7.2	1851.052	1850.000	1908.921	1910.000
	20	7.2	1851.058	1850.000	1908.942	1910.000
	30	7.2	1851.067	1850.000	1908.951	1910.000
	40	7.2	1851.076	1850.000	1908.966	1910.000
	50	7.2	1851.070	1850.000	1908.969	1910.000
Frequency Stability vs. Voltage	20	6.4	1851.067	1850.000	1908.960	1910.000
	20	8.4	1851.082	1850.000	1908.969	1910.000
					Result:	**Pass**

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1851.016	1850.000	1908.918	1910.000
	-20	7.2	1851.043	1850.000	1908.933	1910.000
	-10	7.2	1851.055	1850.000	1908.930	1910.000
	0	7.2	1851.046	1850.000	1908.939	1910.000
	10	7.2	1851.040	1850.000	1908.939	1910.000
	20	7.2	1851.059	1850.000	1908.942	1910.000
	30	7.2	1851.070	1850.000	1908.945	1910.000
	40	7.2	1851.070	1850.000	1908.966	1910.000
	50	7.2	1851.082	1850.000	1908.951	1910.000
Frequency Stability vs. Voltage	20	6.4	1851.085	1850.000	1908.963	1910.000
	20	8.4	1851.061	1850.000	1908.969	1910.000
					Result:	**Pass**

LTE Band 4:

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1711.028	1710.00	1753.930	1755
	-20	7.2	1711.040	1710.00	1753.933	1755
	-10	7.2	1711.040	1710.00	1753.933	1755
	0	7.2	1711.049	1710.00	1753.930	1755
	10	7.2	1711.031	1710.00	1753.924	1755
	20	7.2	1711.058	1710.00	1753.942	1755
	30	7.2	1711.076	1710.00	1753.954	1755
	40	7.2	1711.067	1710.00	1753.945	1755
	50	7.2	1711.085	1710.00	1753.954	1755
Frequency Stability vs. Voltage	20	6.4	1711.061	1710.00	1753.963	1755
	20	8.4	1711.076	1710.00	1753.960	1755
					Result:	**Pass**

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1711.019	1710.00	1753.921	1755
	-20	7.2	1711.037	1710.00	1753.936	1755
	-10	7.2	1711.043	1710.00	1753.924	1755
	0	7.2	1711.031	1710.00	1753.939	1755
	10	7.2	1711.037	1710.00	1753.936	1755
	20	7.2	1711.061	1710.00	1753.942	1755
	30	7.2	1711.076	1710.00	1753.951	1755
	40	7.2	1711.076	1710.00	1753.966	1755
	50	7.2	1711.076	1710.00	1753.966	1755
Frequency Stability vs. Voltage	20	6.4	1711.082	1710.00	1753.945	1755
	20	8.4	1711.070	1710.00	1753.969	1755
					Result:	**Pass**

LTE Band 5

Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	-1.94	-0.002	2.5
	-20	7.2	-9.95	-0.012	2.5
	-10	7.2	4.65	0.006	2.5
	0	7.2	5.92	0.007	2.5
	10	7.2	1.06	0.001	2.5
	20	7.2	-4.21	-0.005	2.5
	30	7.2	4.27	0.005	2.5
	40	7.2	-0.12	0.000	2.5
	50	7.2	9.15	0.011	2.5
Frequency Stability vs. Voltage	20	6.4	-8.55	-0.010	2.5
	20	8.4	-4.67	-0.006	2.5
				Result:	**Pass**

Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	-9.83	-0.012	2.5
	-20	7.2	-4.52	-0.005	2.5
	-10	7.2	-1.81	-0.002	2.5
	0	7.2	-3.28	-0.004	2.5
	10	7.2	-7.52	-0.009	2.5
	20	7.2	-8.17	-0.010	2.5
	30	7.2	-7.1	-0.008	2.5
	40	7.2	-2.21	-0.003	2.5
	50	7.2	-4.94	-0.006	2.5
Frequency Stability vs. Voltage	20	6.4	3.46	0.004	2.5
	20	8.4	2.6	0.003	2.5
				Result:	**Pass**

LTE B7:

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	2501.105	2500.00	2568.936	2570
	-20	7.2	2501.117	2500.00	2568.915	2570
	-10	7.2	2501.129	2500.00	2568.918	2570
	0	7.2	2501.135	2500.00	2568.915	2570
	10	7.2	2501.111	2500.00	2568.927	2570
	20	7.2	2501.138	2500.00	2568.942	2570
	30	7.2	2501.150	2500.00	2568.969	2570
	40	7.2	2501.156	2500.00	2568.957	2570
	50	7.2	2501.165	2500.00	2568.963	2570
Frequency Stability vs. Voltage	20	6.4	2501.156	2500.00	2568.954	2570
	20	8.4	2501.165	2500.00	2568.948	2570
					Result:	**Pass**

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	2501.043	2500.00	2568.998	2570
	-20	7.2	2501.052	2500.00	2569.016	2570
	-10	7.2	2501.055	2500.00	2569.001	2570
	0	7.2	2501.055	2500.00	2569.001	2570
	10	7.2	2501.052	2500.00	2569.007	2570
	20	7.2	2501.058	2500.00	2569.022	2570
	30	7.2	2501.073	2500.00	2569.031	2570
	40	7.2	2501.085	2500.00	2569.049	2570
	50	7.2	2501.073	2500.00	2569.028	2570
Frequency Stability vs. Voltage	20	6.4	2501.073	2500.00	2569.049	2570
	20	8.4	2501.067	2500.00	2569.034	2570
					Result:	**Pass**

LTE B12:

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	700.124	699.00	714.936	716.00
	-20	7.2	700.148	699.00	714.942	716.00
	-10	7.2	700.148	699.00	714.930	716.00
	0	7.2	700.136	699.00	714.936	716.00
	10	7.2	700.130	699.00	714.942	716.00
	20	7.2	700.157	699.00	714.949	716.00
	30	7.2	700.172	699.00	714.951	716.00
	40	7.2	700.178	699.00	714.966	716.00
	50	7.2	700.163	699.00	714.972	716.00
Frequency Stability vs. Voltage	20	6.4	700.169	699.00	714.960	716.00
	20	8.4	700.172	699.00	714.951	716.00
					Result:	**Pass**

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	700.127	699.00	714.939	716.00
	-20	7.2	700.151	699.00	714.927	716.00
	-10	7.2	700.139	699.00	714.942	716.00
	0	7.2	700.145	699.00	714.924	716.00
	10	7.2	700.151	699.00	714.927	716.00
	20	7.2	700.154	699.00	714.948	716.00
	30	7.2	700.184	699.00	714.969	716.00
	40	7.2	700.178	699.00	714.975	716.00
	50	7.2	700.175	699.00	714.966	716.00
Frequency Stability vs. Voltage	20	6.4	700.175	699.00	714.957	716.00
	20	8.4	700.172	699.00	714.963	716.00
					Result:	**Pass**

LTE B13

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	778.113	777.00	785.630	787.00
	-20	7.2	778.125	777.00	785.627	787.00
	-10	7.2	778.119	777.00	785.642	787.00
	0	7.2	778.131	777.00	785.624	787.00
	10	7.2	778.137	777.00	785.621	787.00
	20	7.2	778.146	777.00	785.648	787.00
	30	7.2	778.152	777.00	785.651	787.00
	40	7.2	778.170	777.00	785.651	787.00
	50	7.2	778.167	777.00	785.654	787.00
Frequency Stability vs. Voltage	20	6.4	778.152	777.00	785.666	787.00
	20	8.4	778.167	777.00	785.654	787.00
					Result:	**Pass**

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	778.137	777.00	785.642	787.00
	-20	7.2	778.143	777.00	785.642	787.00
	-10	7.2	778.122	777.00	785.645	787.00
	0	7.2	778.134	777.00	785.636	787.00
	10	7.2	778.140	777.00	785.621	787.00
	20	7.2	778.146	777.00	785.648	787.00
	30	7.2	778.155	777.00	785.657	787.00
	40	7.2	778.173	777.00	785.675	787.00
	50	7.2	778.149	777.00	785.657	787.00
Frequency Stability vs. Voltage	20	6.4	778.149	777.00	785.669	787.00
	20	8.4	778.158	777.00	785.672	787.00
					Result:	**Pass**

LTE B17:

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	706.091	704.00	714.843	716.00
	-20	7.2	706.097	704.00	714.855	716.00
	-10	7.2	706.106	704.00	714.855	716.00
	0	7.2	706.109	704.00	714.858	716.00
	10	7.2	706.109	704.00	714.858	716.00
	20	7.2	706.124	704.00	714.879	716.00
	30	7.2	706.145	704.00	714.903	716.00
	40	7.2	706.148	704.00	714.906	716.00
	50	7.2	706.127	704.00	714.897	716.00
Frequency Stability vs. Voltage	20	6.4	706.136	704.00	714.885	716.00
	20	8.4	706.127	704.00	714.897	716.00
					Result:	**Pass**

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	706.115	704.00	714.846	716.00
	-20	7.2	706.100	704.00	714.852	716.00
	-10	7.2	706.121	704.00	714.876	716.00
	0	7.2	706.121	704.00	714.864	716.00
	10	7.2	706.121	704.00	714.870	716.00
	20	7.2	706.124	704.00	714.879	716.00
	30	7.2	706.127	704.00	714.885	716.00
	40	7.2	706.136	704.00	714.891	716.00
	50	7.2	706.151	704.00	714.894	716.00
Frequency Stability vs. Voltage	20	6.4	706.151	704.00	714.894	716.00
	20	8.4	706.127	704.00	714.903	716.00
					Result:	**Pass**

LTE B25:

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1851.214	1850.000	1913.824	1915.000
	-20	7.2	1851.241	1850.000	1913.839	1915.000
	-10	7.2	1851.253	1850.000	1913.830	1915.000
	0	7.2	1851.229	1850.000	1913.839	1915.000
	10	7.2	1851.241	1850.000	1913.839	1915.000
	20	7.2	1851.254	1850.000	1913.845	1915.000
	30	7.2	1851.259	1850.000	1913.857	1915.000
	40	7.2	1851.259	1850.000	1913.854	1915.000
	50	7.2	1851.268	1850.000	1913.866	1915.000
Frequency Stability vs. Voltage	20	6.4	1851.277	1850.000	1913.857	1915.000
	20	8.4	1851.277	1850.000	1913.851	1915.000
					Result:	**Pass**

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1851.232	1850.000	1913.821	1915.000
	-20	7.2	1851.235	1850.000	1913.842	1915.000
	-10	7.2	1851.241	1850.000	1913.821	1915.000
	0	7.2	1851.247	1850.000	1913.833	1915.000
	10	7.2	1851.247	1850.000	1913.824	1915.000
	20	7.2	1851.256	1850.000	1913.845	1915.000
	30	7.2	1851.283	1850.000	1913.854	1915.000
	40	7.2	1851.259	1850.000	1913.863	1915.000
	50	7.2	1851.271	1850.000	1913.863	1915.000
Frequency Stability vs. Voltage	20	6.4	1851.277	1850.000	1913.869	1915.000
	20	8.4	1851.262	1850.000	1913.863	1915.000
					Result:	**Pass**

LTE Band 26:
814-824MHz:

Test Modulation:	15 MHz QPSK		Test Channel:	821.5	MHz
Test Item	Temperature (℃)	Voltage (VDC)	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	-0.47	-0.001	2.5
	-20	7.2	-9.32	-0.011	2.5
	-10	7.2	2.42	0.003	2.5
	0	7.2	-1.87	-0.002	2.5
	10	7.2	7.24	0.009	2.5
	20	7.2	3.54	0.004	2.5
	30	7.2	-8.58	-0.010	2.5
	40	7.2	-1.42	-0.002	2.5
	50	7.2	-5.22	-0.006	2.5
Frequency Stability vs. Voltage	20	6.4	-4.6	-0.006	2.5
	20	8.4	7.76	0.009	2.5
				Result:	**Pass**

Test Modulation:	15 MHz 16QAM		Test Channel:	821.5	MHz
Test Item	Temperature (℃)	Voltage (VDC)	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	2.41	0.003	2.5
	-20	7.2	5.12	0.006	2.5
	-10	7.2	-5.43	-0.007	2.5
	0	7.2	-1.35	-0.002	2.5
	10	7.2	-7.2	-0.009	2.5
	20	7.2	-8.86	-0.011	2.5
	30	7.2	-4.59	-0.006	2.5
	40	7.2	4.77	0.006	2.5
	50	7.2	-2.25	-0.003	2.5
Frequency Stability vs. Voltage	20	6.4	-8.37	-0.010	2.5
	20	8.4	6.93	0.008	2.5
				Result:	**Pass**

824-849MHz:

Test Modulation:	15 MHz QPSK		Test Channel:	831.5	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	-6.61	-0.008	2.5
	-20	7.2	2.88	0.003	2.5
	-10	7.2	5.87	0.007	2.5
	0	7.2	4.25	0.005	2.5
	10	7.2	4.16	0.005	2.5
	20	7.2	7.41	0.009	2.5
	30	7.2	0.43	0.001	2.5
	40	7.2	-8.47	-0.010	2.5
	50	7.2	-0.96	-0.001	2.5
Frequency Stability vs. Voltage	20	6.4	9.76	0.012	2.5
	20	8.4	2.89	0.003	2.5
				Result:	**Pass**

Test Modulation:	15 MHz 16QAM		Test Channel:	831.5	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.2	3.57	0.004	2.5
	-20	7.2	-0.47	-0.001	2.5
	-10	7.2	-8.5	-0.010	2.5
	0	7.2	0.25	0.000	2.5
	10	7.2	5.84	0.007	2.5
	20	7.2	0.73	0.001	2.5
	30	7.2	5.92	0.007	2.5
	40	7.2	-1.23	-0.001	2.5
	50	7.2	-4.62	-0.006	2.5
Frequency Stability vs. Voltage	20	6.4	-7.37	-0.009	2.5
	20	8.4	9.49	0.011	2.5
				Result:	**Pass**

LTE Band 41:

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	2497.088	2496.00	2688.849	2690
	-20	7.2	2497.106	2496.00	2688.843	2690
	-10	7.2	2497.100	2496.00	2688.858	2690
	0	7.2	2497.112	2496.00	2688.858	2690
	10	7.2	2497.103	2496.00	2688.837	2690
	20	7.2	2497.121	2496.00	2688.864	2690
	30	7.2	2497.136	2496.00	2688.867	2690
	40	7.2	2497.142	2496.00	2688.876	2690
	50	7.2	2497.127	2496.00	2688.879	2690
Frequency Stability vs. Voltage	20	6.4	2497.136	2496.00	2688.870	2690
	20	8.4	2497.142	2496.00	2688.867	2690
					Result:	**Pass**

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	2497.085	2496.00	2688.861	2690
	-20	7.2	2497.103	2496.00	2688.855	2690
	-10	7.2	2497.112	2496.00	2688.843	2690
	0	7.2	2497.100	2496.00	2688.852	2690
	10	7.2	2497.097	2496.00	2688.861	2690
	20	7.2	2497.127	2496.00	2688.874	2690
	30	7.2	2497.139	2496.00	2688.873	2690
	40	7.2	2497.124	2496.00	2688.876	2690
	50	7.2	2497.139	2496.00	2688.888	2690
Frequency Stability vs. Voltage	20	6.4	2497.142	2496.00	2688.891	2690
	20	8.4	2497.139	2496.00	2688.873	2690
					Result:	**Pass**

LTE Band 66:

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1710.948	1710.00	1779.005	1780
	-20	7.2	1710.948	1710.00	1779.020	1780
	-10	7.2	1710.957	1710.00	1778.999	1780
	0	7.2	1710.972	1710.00	1779.014	1780
	10	7.2	1710.954	1710.00	1779.020	1780
	20	7.2	1710.975	1710.00	1779.023	1780
	30	7.2	1710.996	1710.00	1779.029	1780
	40	7.2	1711.002	1710.00	1779.041	1780
	50	7.2	1710.978	1710.00	1779.032	1780
Frequency Stability vs. Voltage	20	6.4	1711.002	1710.00	1779.050	1780
	20	8.4	1710.978	1710.00	1779.050	1780
					Result:	**Pass**

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.2	1710.960	1710.00	1778.996	1780
	-20	7.2	1710.954	1710.00	1779.005	1780
	-10	7.2	1710.972	1710.00	1779.014	1780
	0	7.2	1710.966	1710.00	1778.996	1780
	10	7.2	1710.963	1710.00	1779.002	1780
	20	7.2	1710.975	1710.00	1779.023	1780
	30	7.2	1710.981	1710.00	1779.035	1780
	40	7.2	1710.990	1710.00	1779.038	1780
	50	7.2	1710.978	1710.00	1779.029	1780
Frequency Stability vs. Voltage	20	6.4	1710.999	1710.00	1779.032	1780
	20	8.4	1710.999	1710.00	1779.050	1780
					Result:	**Pass**

5.3 Radiated Spurious Emissions

Serial Number:	2XVR-10	Test Date:	Below 1GHz: 2025/2/19 Above 1GHz: 2025/2/26
Test Site:	Chamber10m, ChamberB	Test Mode:	Transmitting
Tester:	Leesin Xiang, Bill Yang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	21.9~22.4	Relative Humidity: (%)	51~52	ATM Pressure: (kPa)	101.7~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
30MHz~1000MHz					
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESCI	100224	2024/8/26	2025/8/25
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Micro-Coax	Coaxial Cable	UFA210B	99G1448	2024/9/5	2025/9/4
Agilent	Signal Generator	E8247C	MY43321350	2024/9/5	2025/9/4
E-Microwave	Band Rejection Filter	OBF-ZP-703-748-SMAF	OE01902425	2024/6/7	2025/6/6
E-Microwave	Band Rejection Filter	BSF-ZP-777-787-SMAF	OE01902430	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF824-862MS	1438001	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF880-915MN	0382003	2024/6/11	2025/6/10

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
AH	Horn Antenna	SAS-571	1177	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-03 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-02 1302	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
Micro-Coax	Coaxial Cable	UFA210B	99G1448	2024/9/5	2025/9/4
Agilent	Signal Generator	E8247C	MY43321350	2024/9/5	2025/9/4
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
R&S	Wideband Radio Communication Tester	CMW500	149216	2024/9/5	2025/9/4
E-Microwave	Band Rejection Filter	OBF-ZP-703-748-SMAF	OE01902425	2024/6/7	2025/6/6
E-Microwave	Band Rejection Filter	BSF-ZP-777-787-SMAF	OE01902430	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF824-862MS	1438001	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF880-915MN	0382003	2024/6/11	2025/6/10
Sinoscite	Band Rejection Filter	BSF1710-1785MN	0383003	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF1850-1910MS	0935V2001	2024/6/11	2025/6/10
E-Microwave	Band Rejection Filter	OBF-ZP-1920-1980-SMAF	OE01602353	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF2500-2750MS	1439001	2024/6/7	2025/6/6
Mini-Circuits	High Pass Filter	VHF-650+	31052	2024/8/1	2025/7/31
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (30MHz-10GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GPRS 850 Frequency:824.2MHz								
684.74	H	41.08	-60.05	0.00	0.38	-60.43	-13.00	47.43
704.40	V	46.21	-51.23	0.00	0.38	-51.61	-13.00	38.61
1648.40	H	65.87	-59.26	10.44	0.71	-49.53	-13.00	36.53
1648.40	V	68.59	-57.14	10.44	0.71	-47.41	-13.00	34.41
2472.60	H	70.65	-52.13	12.88	1.25	-40.50	-13.00	27.50
2472.60	V	68.60	-54.23	12.88	1.25	-42.60	-13.00	29.60
3296.80	H	60.84	-58.55	13.60	1.59	-46.54	-13.00	33.54
3296.80	V	64.85	-54.54	13.60	1.59	-42.53	-13.00	29.53
GPRS 850 Frequency:836.6MHz								
688.28	H	41.66	-59.42	0.00	0.38	-59.80	-13.00	46.80
701.40	V	47.01	-50.49	0.00	0.38	-50.87	-13.00	37.87
1673.20	H	63.84	-60.91	10.61	0.73	-51.03	-13.00	38.03
1673.20	V	60.87	-64.48	10.61	0.73	-54.60	-13.00	41.60
2509.80	H	71.98	-50.90	13.11	1.25	-39.04	-13.00	26.04
2509.80	V	69.52	-53.38	13.11	1.25	-41.52	-13.00	28.52
3346.40	H	62.08	-57.13	13.83	1.61	-44.91	-13.00	31.91
3346.40	V	66.41	-52.85	13.83	1.61	-40.63	-13.00	27.63
GPRS 850 Frequency:848.8MHz								
669.50	H	42.17	-59.20	0.00	0.37	-59.57	-13.00	46.57
703.17	V	46.27	-51.20	0.00	0.38	-51.58	-13.00	38.58
1697.60	H	61.58	-62.79	10.78	0.75	-52.76	-13.00	39.76
1697.60	V	60.59	-64.38	10.78	0.75	-54.35	-13.00	41.35
2546.40	H	72.51	-50.36	13.15	1.27	-38.48	-13.00	25.48
2546.40	V	70.52	-52.49	13.15	1.27	-40.61	-13.00	27.61
3395.20	H	62.44	-56.55	14.08	1.64	-44.11	-13.00	31.11
3395.20	V	64.95	-54.14	14.08	1.64	-41.70	-13.00	28.70

PCS Band (30MHz-20GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GPRS 1900 Frequency:1850.2MHz								
678.47	H	40.68	-60.55	0.00	0.38	-60.93	-13.00	47.93
703.44	V	46.47	-50.99	0.00	0.38	-51.37	-13.00	38.37
3700.40	H	58.96	-59.61	14.00	1.83	-47.44	-13.00	34.44
3700.40	V	56.32	-62.23	14.00	1.83	-50.06	-13.00	37.06
5550.60	H	62.50	-51.61	13.95	1.27	-38.93	-13.00	25.93
5550.60	V	60.49	-53.47	13.95	1.27	-40.79	-13.00	27.79
GPRS 1900 Frequency:1880MHz								
688.30	H	41.07	-60.01	0.00	0.38	-60.39	-13.00	47.39
700.84	V	45.49	-52.02	0.00	0.38	-52.40	-13.00	39.40
3760.00	H	62.30	-55.54	13.76	1.63	-43.41	-13.00	30.41
3760.00	V	62.35	-55.36	13.76	1.63	-43.23	-13.00	30.23
5640.00	H	62.48	-51.24	14.02	1.31	-38.53	-13.00	25.53
5640.00	V	59.26	-54.35	14.02	1.31	-41.64	-13.00	28.64
GPRS 1900 Frequency:1909.8MHz								
684.73	H	40.61	-60.52	0.00	0.38	-60.90	-13.00	47.90
702.34	V	46.40	-51.08	0.00	0.38	-51.46	-13.00	38.46
3819.60	H	61.35	-55.92	13.56	1.50	-43.86	-13.00	30.86
3819.60	V	66.38	-50.70	13.56	1.50	-38.64	-13.00	25.64
5729.40	H	59.48	-54.54	13.96	1.31	-41.89	-13.00	28.89
5729.40	V	57.98	-56.01	13.96	1.31	-43.36	-13.00	30.36

WCDMA Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 2 Frequency:1852.4 MHz								
687.66	H	39.27	-61.82	0.00	0.38	-62.20	-13.00	49.20
705.40	V	44.08	-53.34	0.00	0.39	-53.73	-13.00	40.73
3704.80	H	52.10	-66.42	13.98	1.81	-54.25	-13.00	41.25
3704.80	V	53.22	-65.27	13.98	1.81	-53.10	-13.00	40.10
5557.20	H	50.14	-63.91	13.97	1.27	-51.21	-13.00	38.21
5557.20	V	49.57	-64.33	13.97	1.27	-51.63	-13.00	38.63
WCDMA Band 2 Frequency:1880MHz								
680.80	H	40.27	-60.92	0.00	0.38	-61.30	-13.00	48.30
704.38	V	45.74	-51.70	0.00	0.38	-52.08	-13.00	39.08
3760.00	H	49.68	-68.16	13.76	1.63	-56.03	-13.00	43.03
3760.00	V	52.23	-65.48	13.76	1.63	-53.35	-13.00	40.35
5640.00	H	51.23	-62.49	14.02	1.31	-49.78	-13.00	36.78
5640.00	V	51.42	-62.19	14.02	1.31	-49.48	-13.00	36.48
WCDMA Band 2 Frequency:1907.6MHz								
685.44	H	41.14	-59.98	0.00	0.38	-60.36	-13.00	47.36
702.50	V	45.68	-51.80	0.00	0.38	-52.18	-13.00	39.18
3815.20	H	51.19	-66.10	13.57	1.50	-54.03	-13.00	41.03
3815.20	V	50.45	-66.65	13.57	1.50	-54.58	-13.00	41.58
5722.80	H	51.30	-62.69	13.95	1.32	-50.06	-13.00	37.06
5722.80	V	50.78	-63.16	13.95	1.32	-50.53	-13.00	37.53

WCDMA Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 4 Frequency:1712.4 MHz								
686.78	H	39.68	-61.42	0.00	0.38	-61.80	-13.00	48.80
693.48	V	43.47	-54.22	0.00	0.38	-54.60	-13.00	41.60
3424.80	H	49.71	-69.19	14.03	1.63	-56.79	-13.00	43.79
3424.80	V	49.69	-69.28	14.03	1.63	-56.88	-13.00	43.88
5137.20	H	51.53	-64.97	13.94	1.39	-52.42	-13.00	39.42
5137.20	V	50.89	-65.53	13.94	1.39	-52.98	-13.00	39.98
WCDMA Band 4 Frequency:1732.6MHz								
689.40	H	40.16	-60.90	0.00	0.38	-61.28	-13.00	48.28
698.70	V	44.27	-53.29	0.00	0.38	-53.67	-13.00	40.67
3465.20	H	48.96	-69.82	13.90	1.62	-57.54	-13.00	44.54
3465.20	V	50.50	-68.31	13.90	1.62	-56.03	-13.00	43.03
5197.80	H	51.07	-65.30	14.00	1.52	-52.82	-13.00	39.82
5197.80	V	50.21	-66.23	14.00	1.52	-53.75	-13.00	40.75
WCDMA Band 4 Frequency:1752.6MHz								
685.70	H	39.87	-61.25	0.00	0.38	-61.63	-13.00	48.63
701.20	V	43.68	-53.83	0.00	0.38	-54.21	-13.00	41.21
3505.20	H	52.36	-66.34	13.82	1.60	-54.12	-13.00	41.12
3505.20	V	50.89	-67.81	13.82	1.60	-55.59	-13.00	42.59
5257.80	H	52.36	-64.37	14.17	1.31	-51.51	-13.00	38.51
5257.80	V	50.44	-66.37	14.17	1.31	-53.51	-13.00	40.51

WCDMA Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
678.70	H	38.88	-62.35	0.00	0.38	-62.73	-13.00	49.73
700.42	V	44.41	-53.11	0.00	0.38	-53.49	-13.00	40.49
1652.80	H	48.12	-76.94	10.47	0.72	-67.19	-13.00	54.19
1652.80	V	47.89	-77.77	10.47	0.72	-68.02	-13.00	55.02
2479.20	H	48.36	-74.44	12.93	1.25	-62.76	-13.00	49.76
2479.20	V	48.52	-74.32	12.93	1.25	-62.64	-13.00	49.64
3305.60	H	49.27	-70.12	13.63	1.59	-58.08	-13.00	45.08
3305.60	V	49.36	-70.04	13.63	1.59	-58.00	-13.00	45.00
WCDMA Band 5 Frequency:836.6MHz								
681.78	H	39.47	-61.71	0.00	0.38	-62.09	-13.00	49.09
698.70	V	43.82	-53.74	0.00	0.38	-54.12	-13.00	41.12
1673.20	H	48.33	-76.42	10.61	0.73	-66.54	-13.00	53.54
1673.20	V	49.31	-76.04	10.61	0.73	-66.16	-13.00	53.16
2509.80	H	49.06	-73.82	13.11	1.25	-61.96	-13.00	48.96
2509.80	V	48.86	-74.04	13.11	1.25	-62.18	-13.00	49.18
3346.40	H	51.53	-67.68	13.83	1.61	-55.46	-13.00	42.46
3346.40	V	50.39	-68.87	13.83	1.61	-56.65	-13.00	43.65
WCDMA Band 5 Frequency:846.6MHz								
679.87	H	38.97	-62.24	0.00	0.38	-62.62	-13.00	49.62
695.38	V	44.58	-53.06	0.00	0.38	-53.44	-13.00	40.44
1693.20	H	48.04	-76.40	10.75	0.75	-66.40	-13.00	53.40
1693.20	V	47.53	-77.51	10.75	0.75	-67.51	-13.00	54.51
2539.80	H	48.25	-74.62	13.14	1.27	-62.75	-13.00	49.75
2539.80	V	48.10	-74.89	13.14	1.27	-63.02	-13.00	50.02
3386.40	H	50.57	-68.46	14.03	1.63	-56.06	-13.00	43.06
3386.40	V	50.99	-68.13	14.03	1.63	-55.73	-13.00	42.73

LTE Bands:

(The Worst modulation and bandwidth was below)

LTE Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK,Frequency:1850.7 MHz								
332.64	H	42.26	-65.78	0.00	0.33	-66.11	-13.00	53.11
701.24	V	46.40	-51.10	0.00	0.38	-51.48	-13.00	38.48
3701.40	H	61.53	-57.03	13.99	1.83	-44.87	-13.00	31.87
3701.40	V	62.39	-56.15	13.99	1.83	-43.99	-13.00	30.99
5552.10	H	56.80	-57.30	13.96	1.27	-44.61	-13.00	31.61
5552.10	V	53.36	-60.59	13.96	1.27	-47.90	-13.00	34.90
1RB, 1.4MHz, QPSK,Frequency:1880 MHz								
333.65	H	38.98	-69.04	0.00	0.33	-69.37	-13.00	56.37
703.50	V	45.43	-52.03	0.00	0.38	-52.41	-13.00	39.41
3760.00	H	62.12	-55.72	13.76	1.63	-43.59	-13.00	30.59
3760.00	V	60.31	-57.40	13.76	1.63	-45.27	-13.00	32.27
5640.00	H	57.09	-56.63	14.02	1.31	-43.92	-13.00	30.92
5640.00	V	53.62	-59.99	14.02	1.31	-47.28	-13.00	34.28
1RB, 1.4MHz, QPSK,Frequency:1909.3 MHz								
340.47	H	39.47	-68.43	0.00	0.34	-68.77	-13.00	55.77
702.47	V	44.68	-52.80	0.00	0.38	-53.18	-13.00	40.18
3818.60	H	61.74	-55.53	13.56	1.50	-43.47	-13.00	30.47
3818.60	V	62.36	-54.73	13.56	1.50	-42.67	-13.00	29.67
5727.90	H	57.48	-56.53	13.96	1.31	-43.88	-13.00	30.88
5727.90	V	52.36	-61.62	13.96	1.31	-48.97	-13.00	35.97

LTE Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK,Frequency:1710.7 MHz								
341.14	H	40.85	-67.03	0.00	0.34	-67.37	-13.00	54.37
666.32	V	45.67	-52.70	0.00	0.37	-53.07	-13.00	40.07
3421.40	H	62.23	-56.68	14.04	1.63	-44.27	-13.00	31.27
3421.40	V	60.74	-58.24	14.04	1.63	-45.83	-13.00	32.83
5132.10	H	54.43	-62.08	13.93	1.37	-49.52	-13.00	36.52
5132.10	V	52.16	-64.26	13.93	1.37	-51.70	-13.00	38.70
1RB, 1.4MHz, QPSK,Frequency:1732.5 MHz								
336.68	H	39.93	-68.04	0.00	0.34	-68.38	-13.00	55.38
674.40	V	44.71	-53.45	0.00	0.37	-53.82	-13.00	40.82
3465.00	H	60.43	-58.35	13.91	1.62	-46.06	-13.00	33.06
3465.00	V	57.16	-61.65	13.91	1.62	-49.36	-13.00	36.36
5197.50	H	55.12	-61.25	14.00	1.52	-48.77	-13.00	35.77
5197.50	V	52.06	-64.38	14.00	1.52	-51.90	-13.00	38.90
1RB, 1.4MHz, QPSK,Frequency:1754.3MHz								
351.50	H	38.47	-69.22	0.00	0.35	-69.57	-13.00	56.57
668.51	V	45.56	-52.75	0.00	0.37	-53.12	-13.00	40.12
3508.60	H	62.14	-56.57	13.83	1.60	-44.34	-13.00	31.34
3508.60	V	56.98	-61.73	13.83	1.60	-49.50	-13.00	36.50
5262.90	H	55.32	-61.45	14.19	1.29	-48.55	-13.00	35.55
5262.90	V	52.74	-64.11	14.19	1.29	-51.21	-13.00	38.21

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK, Frequency: 824.7 MHz								
332.40	H	39.81	-68.24	0.00	0.33	-68.57	-13.00	55.57
687.40	V	43.87	-53.97	0.00	0.38	-54.35	-13.00	41.35
1649.40	H	54.36	-70.75	10.45	0.71	-61.01	-13.00	48.01
1649.40	V	51.71	-74.00	10.45	0.71	-64.26	-13.00	51.26
2474.10	H	63.35	-59.43	12.89	1.25	-47.79	-13.00	34.79
2474.10	V	56.43	-66.40	12.89	1.25	-54.76	-13.00	41.76
3298.80	H	55.14	-64.27	13.60	1.59	-52.26	-13.00	39.26
3298.80	V	54.13	-65.28	13.60	1.59	-53.27	-13.00	40.27
1RB, 1.4MHz, QPSK, Frequency: 836.5 MHz								
356.40	H	39.22	-68.38	0.00	0.35	-68.73	-13.00	55.73
674.40	V	44.01	-54.15	0.00	0.37	-54.52	-13.00	41.52
1673.00	H	54.15	-70.60	10.61	0.73	-60.72	-13.00	47.72
1673.00	V	55.36	-69.99	10.61	0.73	-60.11	-13.00	47.11
2509.50	H	60.29	-62.59	13.11	1.25	-50.73	-13.00	37.73
2509.50	V	58.15	-64.75	13.11	1.25	-52.89	-13.00	39.89
3346.00	H	59.43	-59.78	13.83	1.61	-47.56	-13.00	34.56
3346.00	V	52.13	-67.13	13.83	1.61	-54.91	-13.00	41.91
1RB, 1.4MHz, QPSK, Frequency: 848.3 MHz								
360.05	H	40.44	-67.09	0.00	0.35	-67.44	-13.00	54.44
688.70	V	44.07	-53.74	0.00	0.38	-54.12	-13.00	41.12
1696.60	H	55.10	-69.28	10.78	0.75	-59.25	-13.00	46.25
1696.60	V	54.36	-70.62	10.78	0.75	-60.59	-13.00	47.59
2544.90	H	62.34	-60.53	13.14	1.27	-48.66	-13.00	35.66
2544.90	V	58.48	-64.53	13.14	1.27	-52.66	-13.00	39.66
3393.20	H	56.19	-62.81	14.07	1.64	-50.38	-13.00	37.38
3393.20	V	55.73	-63.36	14.07	1.64	-50.93	-13.00	37.93

LTE Band 7(30MHz-26GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 5MHz, QPSK, Frequency: 2502.5 MHz								
342.50	H	38.57	-69.29	0.00	0.34	-69.63	-25.00	44.63
669.80	V	45.15	-53.13	0.00	0.37	-53.50	-25.00	28.50
5005.00	H	62.13	-55.52	14.00	1.43	-42.95	-25.00	17.95
5005.00	V	57.24	-60.17	14.00	1.43	-47.60	-25.00	22.60
7507.50	H	54.32	-54.81	13.20	1.33	-42.94	-25.00	17.94
7507.50	V	52.03	-57.58	13.20	1.33	-45.71	-25.00	20.71
1RB, 5MHz, QPSK, Frequency: 2535 MHz								
347.80	H	39.03	-68.73	0.00	0.34	-69.07	-25.00	44.07
671.08	V	44.52	-53.73	0.00	0.37	-54.10	-25.00	29.10
5070.00	H	62.43	-54.48	13.93	1.34	-41.89	-25.00	16.89
5070.00	V	57.78	-58.94	13.93	1.34	-46.35	-25.00	21.35
7605.00	H	52.43	-56.98	13.21	1.40	-45.17	-25.00	20.17
7605.00	V	49.46	-60.35	13.21	1.40	-48.54	-25.00	23.54
1RB, 5MHz, QPSK, Frequency: 2567.5 MHz								
321.13	H	37.82	-70.44	0.00	0.32	-70.76	-25.00	45.76
680.52	V	43.64	-54.37	0.00	0.38	-54.75	-25.00	29.75
5135.00	H	64.45	-52.05	13.94	1.38	-39.49	-25.00	14.49
5135.00	V	58.19	-58.23	13.94	1.38	-45.67	-25.00	20.67
7702.50	H	51.42	-58.27	13.40	1.47	-46.34	-25.00	21.34
7702.50	V	49.30	-60.71	13.40	1.47	-48.78	-25.00	23.78

LTE Band 12(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK, Frequency: 699.7 MHz								
345.10	H	38.60	-69.21	0.00	0.34	-69.55	-13.00	56.55
683.08	V	46.03	-51.92	0.00	0.38	-52.30	-13.00	39.30
1399.40	H	64.39	-59.81	9.00	1.20	-52.01	-13.00	39.01
1399.40	V	65.83	-58.97	9.00	1.20	-51.17	-13.00	38.17
2099.10	H	70.22	-53.26	11.41	1.10	-42.95	-13.00	29.95
2099.10	V	58.43	-65.05	11.41	1.10	-54.74	-13.00	41.74
2798.80	H	60.20	-61.90	13.10	1.36	-50.16	-13.00	37.16
2798.80	V	62.80	-59.50	13.10	1.36	-47.76	-13.00	34.76
1RB, 1.4MHz,QPSK, Frequency:707.5 MHz								
328.47	H	39.66	-68.46	0.00	0.33	-68.79	-13.00	55.79
678.91	V	43.47	-54.58	0.00	0.38	-54.96	-13.00	41.96
1415.00	H	65.36	-59.13	9.08	1.22	-51.27	-13.00	38.27
1415.00	V	68.98	-56.03	9.08	1.22	-48.17	-13.00	35.17
2122.50	H	63.63	-59.81	11.27	1.11	-49.65	-13.00	36.65
2122.50	V	57.01	-66.41	11.27	1.11	-56.25	-13.00	43.25
2830.00	H	62.10	-59.57	13.34	1.36	-47.59	-13.00	34.59
2830.00	V	64.45	-57.45	13.34	1.36	-45.47	-13.00	32.47
1RB, 1.4MHz,QPSK, Frequency: 715.3 MHz								
333.32	H	40.57	-67.46	0.00	0.33	-67.79	-13.00	54.79
658.40	V	42.91	-55.65	0.00	0.37	-56.02	-13.00	43.02
1430.60	H	62.30	-62.49	9.15	1.25	-54.59	-13.00	41.59
1430.60	V	65.01	-60.22	9.15	1.25	-52.32	-13.00	39.32
2145.90	H	66.36	-57.05	11.12	1.12	-47.05	-13.00	34.05
2145.90	V	58.26	-65.11	11.12	1.12	-55.11	-13.00	42.11
2861.20	H	63.34	-57.89	13.59	1.35	-45.65	-13.00	32.65
2861.20	V	65.11	-56.38	13.59	1.35	-44.14	-13.00	31.14

LTE Band 13 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 5MHz,QPSK, Frequency: 779.5 MHz								
342.58	H	39.33	-68.53	0.00	0.34	-68.87	-13.00	55.87
679.80	V	42.87	-55.16	0.00	0.38	-55.54	-13.00	42.54
1559.00	H	56.42	-69.56	9.85	0.95	-60.66	-40.00	20.66
1559.00	V	54.16	-72.22	9.85	0.95	-63.32	-40.00	23.32
2338.50	H	58.78	-63.60	11.62	1.25	-53.23	-13.00	40.23
2338.50	V	56.36	-66.04	11.62	1.25	-55.67	-13.00	42.67
3118.00	H	53.10	-66.62	13.27	1.78	-55.13	-13.00	42.13
3118.00	V	51.12	-68.62	13.27	1.78	-57.13	-13.00	44.13
1RB, 5MHz,QPSK, Frequency:784.5 MHz								
340.60	H	40.41	-67.48	0.00	0.34	-67.82	-13.00	54.82
684.80	V	45.08	-52.83	0.00	0.38	-53.21	-13.00	40.21
1569.00	H	53.21	-72.75	9.91	0.89	-63.73	-40.00	23.73
1569.00	V	52.16	-74.24	9.91	0.89	-65.22	-40.00	25.22
2353.50	H	58.42	-63.99	11.79	1.26	-53.46	-13.00	40.46
2353.50	V	54.36	-68.11	11.79	1.26	-57.58	-13.00	44.58
3138.00	H	52.11	-67.34	13.35	1.73	-55.72	-13.00	42.72
3138.00	V	51.04	-68.43	13.35	1.73	-56.81	-13.00	43.81

LTE Band 17(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 5MHz,QPSK, Frequency: 706.5 MHz								
695.70	H	38.44	-62.53	0.00	0.38	-62.91	-13.00	49.91
362.74	V	44.35	-60.85	0.00	0.35	-61.20	-13.00	48.20
1413.00	H	62.12	-62.33	9.07	1.22	-54.48	-13.00	41.48
1413.00	V	66.36	-58.62	9.07	1.22	-50.77	-13.00	37.77
2119.50	H	60.34	-63.10	11.28	1.11	-52.93	-13.00	39.93
2119.50	V	55.98	-67.44	11.28	1.11	-57.27	-13.00	44.27
2826.00	H	57.15	-64.58	13.31	1.36	-52.63	-13.00	39.63
2826.00	V	59.39	-62.57	13.31	1.36	-50.62	-13.00	37.62
1RB, 5MHz,QPSK, Frequency:710 MHz								
685.40	H	39.47	-61.65	0.00	0.38	-62.03	-13.00	49.03
351.34	V	43.57	-61.95	0.00	0.35	-62.30	-13.00	49.30
1420.00	H	62.42	-62.16	9.10	1.23	-54.29	-13.00	41.29
1420.00	V	65.39	-59.69	9.10	1.23	-51.82	-13.00	38.82
2130.00	H	58.13	-65.30	11.22	1.11	-55.19	-13.00	42.19
2130.00	V	55.25	-68.15	11.22	1.11	-58.04	-13.00	45.04
2840.00	H	57.43	-64.10	13.42	1.36	-52.04	-13.00	39.04
2840.00	V	60.13	-61.64	13.42	1.36	-49.58	-13.00	36.58
1RB, 5MHz,QPSK, Frequency: 713.5 MHz								
659.80	H	37.82	-63.70	0.00	0.37	-64.07	-13.00	51.07
336.60	V	45.14	-60.80	0.00	0.34	-61.14	-13.00	48.14
1427.00	H	59.83	-64.89	9.14	1.24	-56.99	-13.00	43.99
1427.00	V	62.13	-63.05	9.14	1.24	-55.15	-13.00	42.15
2140.50	H	59.74	-63.68	11.16	1.12	-53.64	-13.00	40.64
2140.50	V	58.14	-65.24	11.16	1.12	-55.20	-13.00	42.20
2854.00	H	58.43	-62.90	13.53	1.35	-50.72	-13.00	37.72
2854.00	V	58.16	-63.43	13.53	1.35	-51.25	-13.00	38.25

LTE Band 25 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 5MHz,QPSK, Frequency: 1852.5 MHz								
674.40	H	39.27	-62.02	0.00	0.37	-62.39	-13.00	49.39
341.65	V	44.21	-61.59	0.00	0.34	-61.93	-13.00	48.93
3705.00	H	61.23	-57.29	13.98	1.81	-45.12	-13.00	32.12
3705.00	V	63.35	-55.14	13.98	1.81	-42.97	-13.00	29.97
5557.50	H	54.16	-59.88	13.97	1.27	-47.18	-13.00	34.18
5557.50	V	55.26	-58.63	13.97	1.27	-45.93	-13.00	32.93
1RB, 5MHz,QPSK, Frequency: 1882.5 MHz								
664.87	H	40.36	-61.08	0.00	0.37	-61.45	-13.00	48.45
328.47	V	39.64	-66.54	0.00	0.33	-66.87	-13.00	53.87
3765.00	H	57.89	-59.89	13.74	1.62	-47.77	-13.00	34.77
3765.00	V	58.43	-59.21	13.74	1.62	-47.09	-13.00	34.09
5647.50	H	50.49	-63.25	14.01	1.31	-50.55	-13.00	37.55
5647.50	V	50.36	-63.27	14.01	1.31	-50.57	-13.00	37.57
1RB, 5MHz,QPSK, Frequency: 1912.5 MHz								
681.70	H	40.22	-60.96	0.00	0.38	-61.34	-13.00	48.34
338.41	V	43.57	-62.32	0.00	0.34	-62.66	-13.00	49.66
3825.00	H	60.45	-56.79	13.55	1.51	-44.75	-13.00	31.75
3825.00	V	60.19	-56.88	13.55	1.51	-44.84	-13.00	31.84
5737.50	H	50.39	-63.67	13.98	1.31	-51.00	-13.00	38.00
5737.50	V	50.44	-63.60	13.98	1.31	-50.93	-13.00	37.93

LTE Band 26(30MHz-10GHz):
814-824MHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz,QPSK, Frequency: 814.7 MHz								
672.82	H	39.57	-61.75	0.00	0.37	-62.12	-13.00	49.12
352.50	V	44.71	-60.78	0.00	0.35	-61.13	-13.00	48.13
1629.40	H	56.38	-69.05	10.31	0.70	-59.44	-13.00	46.44
1629.40	V	56.97	-69.06	10.31	0.70	-59.45	-13.00	46.45
2444.10	H	60.12	-62.55	12.65	1.27	-51.17	-13.00	38.17
2444.10	V	55.05	-67.73	12.65	1.27	-56.35	-13.00	43.35
3258.80	H	56.43	-62.64	13.60	1.58	-50.62	-13.00	37.62
3258.80	V	57.31	-61.79	13.60	1.58	-49.77	-13.00	36.77
1RB, 1.4MHz,QPSK, Frequency:823.3 MHz								
671.54	H	38.69	-62.65	0.00	0.37	-63.02	-13.00	50.02
348.80	V	44.08	-61.51	0.00	0.34	-61.85	-13.00	48.85
1646.60	H	50.05	-75.11	10.43	0.71	-65.39	-13.00	52.39
1646.60	V	53.12	-72.64	10.43	0.71	-62.92	-13.00	49.92
2469.90	H	60.84	-61.93	12.86	1.26	-50.33	-13.00	37.33
2469.90	V	56.19	-66.64	12.86	1.26	-55.04	-13.00	42.04
3293.20	H	55.43	-63.93	13.60	1.59	-51.92	-13.00	38.92
3293.20	V	54.73	-64.64	13.60	1.59	-52.63	-13.00	39.63

824-849MHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz,QPSK, Frequency: 824.7 MHz								
677.82	H	39.48	-61.76	0.00	0.38	-62.14	-13.00	49.14
358.07	V	45.17	-60.16	0.00	0.35	-60.51	-13.00	47.51
1649.40	H	52.43	-72.68	10.45	0.71	-62.94	-13.00	49.94
1649.40	V	52.69	-73.02	10.45	0.71	-63.28	-13.00	50.28
2474.10	H	62.34	-60.44	12.89	1.25	-48.80	-13.00	35.80
2474.10	V	55.12	-67.71	12.89	1.25	-56.07	-13.00	43.07
3298.80	H	54.36	-65.05	13.60	1.59	-53.04	-13.00	40.04
3298.80	V	54.13	-65.28	13.60	1.59	-53.27	-13.00	40.27
1RB, 1.4MHz,QPSK, Frequency:836.5 MHz								
671.80	H	40.00	-61.33	0.00	0.37	-61.70	-13.00	48.70
334.71	V	45.67	-60.33	0.00	0.33	-60.66	-13.00	47.66
1673.00	H	56.26	-68.49	10.61	0.73	-58.61	-13.00	45.61
1673.00	V	57.28	-68.07	10.61	0.73	-58.19	-13.00	45.19
2509.50	H	61.43	-61.45	13.11	1.25	-49.59	-13.00	36.59
2509.50	V	56.86	-66.04	13.11	1.25	-54.18	-13.00	41.18
3346.00	H	56.98	-62.23	13.83	1.61	-50.01	-13.00	37.01
3346.00	V	54.26	-65.00	13.83	1.61	-52.78	-13.00	39.78
1RB, 1.4MHz,QPSK, Frequency: 848.3 MHz								
675.80	H	41.06	-60.21	0.00	0.38	-60.59	-13.00	47.59
352.28	V	44.77	-60.72	0.00	0.35	-61.07	-13.00	48.07
1696.60	H	54.03	-70.35	10.78	0.75	-60.32	-13.00	47.32
1696.60	V	52.88	-72.10	10.78	0.75	-62.07	-13.00	49.07
2544.90	H	63.43	-59.44	13.14	1.27	-47.57	-13.00	34.57
2544.90	V	59.16	-63.85	13.14	1.27	-51.98	-13.00	38.98
3393.20	H	56.74	-62.26	14.07	1.64	-49.83	-13.00	36.83
3393.20	V	55.38	-63.71	14.07	1.64	-51.28	-13.00	38.28

LTE Band 41(30MHz-27GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 5MHz,QPSK, Frequency: 2498.5 MHz								
680.47	H	38.67	-62.53	0.00	0.38	-62.91	-25.00	37.91
331.13	V	45.17	-60.93	0.00	0.33	-61.26	-25.00	36.26
4997.00	H	61.98	-55.69	14.00	1.44	-43.13	-25.00	18.13
4997.00	V	56.48	-60.93	14.00	1.44	-48.37	-25.00	23.37
7495.50	H	50.32	-58.80	13.20	1.32	-46.92	-25.00	21.92
7495.50	V	50.41	-59.20	13.20	1.32	-47.32	-25.00	22.32
1RB, 5MHz,QPSK, Frequency:2593 MHz								
690.74	H	37.88	-63.16	0.00	0.38	-63.54	-25.00	38.54
358.71	V	46.11	-59.20	0.00	0.35	-59.55	-25.00	34.55
5186.00	H	64.53	-51.86	13.99	1.50	-39.37	-25.00	14.37
5186.00	V	57.82	-58.62	13.99	1.50	-46.13	-25.00	21.13
7779.00	H	50.18	-59.73	13.32	1.53	-47.94	-25.00	22.94
7779.00	V	50.32	-59.85	13.32	1.53	-48.06	-25.00	23.06
1RB, 5MHz,QPSK, Frequency: 2687.5 MHz								
679.97	H	38.89	-62.32	0.00	0.38	-62.70	-25.00	37.70
346.51	V	43.87	-61.79	0.00	0.34	-62.13	-25.00	37.13
5375.00	H	65.95	-48.68	14.15	1.38	-35.91	-25.00	10.91
5375.00	V	59.98	-54.64	14.15	1.38	-41.87	-25.00	16.87
8062.50	H	57.84	-52.47	13.34	1.72	-40.85	-25.00	15.85
8062.50	V	54.85	-55.53	13.34	1.72	-43.91	-25.00	18.91

LTE Band 66(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz,QPSK, Frequency: 1710.7 MHz								
672.83	H	38.70	-62.62	0.00	0.37	-62.99	-13.00	49.99
347.06	V	45.54	-60.10	0.00	0.34	-60.44	-13.00	47.44
3421.40	H	68.17	-50.74	14.04	1.63	-38.33	-13.00	25.33
3421.40	V	70.52	-48.46	14.04	1.63	-36.05	-13.00	23.05
5132.10	H	59.41	-57.10	13.93	1.37	-44.54	-13.00	31.54
5132.10	V	61.24	-55.18	13.93	1.37	-42.62	-13.00	29.62
1RB, 1.4MHz,QPSK, Frequency:1745 MHz								
684.58	H	39.00	-62.14	0.00	0.38	-62.52	-13.00	49.52
328.40	V	45.76	-60.42	0.00	0.33	-60.75	-13.00	47.75
3490.00	H	67.18	-51.52	13.83	1.61	-39.30	-13.00	26.30
3490.00	V	63.15	-55.56	13.83	1.61	-43.34	-13.00	30.34
5235.00	H	56.32	-60.27	14.11	1.40	-47.56	-13.00	34.56
5235.00	V	56.10	-60.57	14.11	1.40	-47.86	-13.00	34.86
1RB, 1.5MHz,QPSK, Frequency: 1779.3 MHz								
673.54	H	40.34	-60.96	0.00	0.37	-61.33	-13.00	48.33
336.82	V	46.44	-59.50	0.00	0.34	-59.84	-13.00	46.84
3558.60	H	70.98	-47.93	13.98	1.55	-35.50	-13.00	22.50
3558.60	V	70.62	-48.29	13.98	1.55	-35.86	-13.00	22.86
5337.90	H	56.32	-59.49	14.22	1.26	-46.53	-13.00	33.53
5337.90	V	55.62	-60.22	14.22	1.26	-47.26	-13.00	34.26

Note:
1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
3) Margin = Limit-Absolute Level

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502P42842E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502P42842E-RF-INP EUT INTERNAL PHOTOGRAPHS

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502P42842E-RF-00E-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******