

TEST REPORT

Applicant Name: SIMO Holdings Inc.
Address: PO.Box309.UglandHouse.GrandCayman,KY1-1104,Cayman Islands
Report Number: 2501V03643E-RF-00
FCC ID: 2A9UP-SEG

Test Standard (s)

FCC PART 22H; FCC PART 24E; FCC PART 27

Sample Description

Product Type: Solis EDGE
Model No.: S5G25
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2025/07/31
Issue Date: 2025/11/21

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	3
GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	5
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY	5
TEST FACILITY	6
SYSTEM TEST CONFIGURATION	7
DESCRIPTION OF TEST CONFIGURATION	7
EQUIPMENT MODIFICATIONS	10
SUPPORT EQUIPMENT LIST AND DETAILS	10
SUPPORT CABLE DESCRIPTION	10
BLOCK DIAGRAM OF TEST SETUP	10
SUMMARY OF TEST RESULTS	11
TEST EQUIPMENT LIST	12
REQUIREMENTS AND TEST PROCEDURES	14
APPLICABLE STANDARD FOR PART 22 SUBPART H	14
APPLICABLE STANDARD FOR PART 24 SUBPART E	16
APPLICABLE STANDARD FOR PART 27	17
TEST METHOD	19
TEST DATA AND RESULTS	26
SPURIOUS RADIATED EMISSIONS	26
RF CONDUCTED DATA	38
FCC §1.1310, §2.1093 - RF EXPOSURE INFORMATION	39
EUT PHOTOGRAPHS	40
TEST SETUP PHOTOGRAPHS	41

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501V03643E-RF-00	Original Report	2025/11/21

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Solis EDGE			
Tested Model	S5G25			
Multiple Model(s)	N/A			
Frequency Range	5G NR Band 2: 1850-1910 MHz(TX); 1930-1990MHz(RX) 5G NR Band 5: 824-849 MHz(TX); 869-894MHz(RX) 5G NR Band 7: 2500-2570 MHz(TX); 2620-2690MHz(RX) 5G NR Band 12: 699-716MHz(TX); 729-746MHz(RX) 5G NR Band 25: 1850-1915 MHz(TX); 1930-1995MHz(RX) 5G NR Band 41: 2496-2690MHz(TX/RX) 5G NR Band 66: 1710-1780MHz(TX); 2110-2200MHz(RX) 5G NR Band 71: 663-698MHz(TX); 617-652MHz(RX) 5G NR Band 77: 3700-3980MHz(TX/RX) 5G NR Band 78: 3450-3550MHz (TX/RX)			
EN-DC possible combinations	DC_2A_n7A, DC_2A_n66A, DC_2A_n78A, DC_4A_n7A, DC_4A_n78A, DC_5A_n66A, DC_5A_n78A, DC_7A_n66A, DC_7A_n78A, DC_12A_n66A, DC_66A_n7A, DC_66A_n78A			
Carrier aggregation	None Carrier aggregation			
Modulation Technique	DFT-s-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM			
Antenna Specification [#]	Antenna	Operation Bands	Antenna Gain (G _T) (dBi)	L _C (dB)
	ANT0	N5	-1.44	0.1
		N12	-3.45	0.1
		N71	-4.41	0.1
	ANT1	N2/N25	0.22	0
		N7/N41	2.04	0
		N66	0.23	0
	ANT2	N77	1.15	0
		N78	1.27	0
Note: Lc= Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.				
Voltage Range	DC 3.87V from battery or DC 5V from Type-c port			
Sample serial number	38US-1 for Radiated Emissions Test 38US-3 for RF Conducted Test (Assigned by BACL, Shenzhen)			
Sample/EUT Status	Good condition			
Normal/Extreme Condition [#]	L.V.: Low Voltage 3.4V _{DC} N.V.: Normal Voltage 3.87V _{DC} H.V.: High Voltage 4.3V _{DC} (provided by the applicant)			
Adapter Information	N/A			

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part24-Subpart E, Part 27 of the Federal Communication Commission's rules.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
 Part 24 Subpart E - Personal Communication Services
 Part 27 - Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF Frequency		56.6Hz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.60dB(k=2, 95% level of confidence)
Emissions, Radiated	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The test items were performed with the EUT operating at testing mode. Test was performed with channels as below table:

Bands	Frequency Range (MHz)	SCS (kHz)	Bandwidth (MHz)	Test Frequency (MHz)		
				Low	Middle	High
N2	1850-1910	15	5	1852.5	1880	1907.5
		15,30	10	1855	1880	1905
		15,30	15	1857.5	1880	1902.5
		15,30	20	1860	1880	1900
		15,30	25	1862.5	1880	1897.5
		15,30	30	1865	1880	1895
		15,30	40	1870	1880	1890
N5	824-849	15	5	826.5	836.5	846.5
		15,30	10	829	836.5	844
		15,30	15	831.5	836.5	841.5
		15,30	20	834	836.5	839
N7	2500-2570	15	5	2502.5	2535	2567.5
		15,30	10	2505	2535	2565
		15,30	15	2507.5	2535	2562.5
		15,30	20	2510	2535	2560
N12	699-716	15	5	701.5	707.5	713.5
		15,30	10	704	707.5	711
		15,30	15	706.5	707.5	708.5
N25	1850-1915	15	5	1852.5	1882.5	1912.5
		15,30	10	1855	1882.5	1910
		15,30	15	1857.5	1882.5	1907.5
		15,30	20	1860	1882.5	1905
		15,30	25	1862.5	1882.5	1902.5
		15,30	30	1865	1882.5	1900
		15,30	40	1870	1882.5	1895

Bands	Frequency Range (MHz)	SCS (kHz)	Bandwidth (MHz)	Test Frequency (MHz)		
				Low	Middle	High
N41	2496-2690	15	10	2501.01	2593.005	2685
		15	15	2503.5	2593.005	2682.495
		15	20	2506.005	2593.005	2679.99
		15	30	2511	2593.005	2674.995
		15	40	2516.01	2593.005	2670
		15	50	2521.005	2593.005	2664.99
		30	10	2501.01	2592.99	2685
		30	15	2503.5	2592.99	2682.48
		30	20	2506.02	2592.99	2679.99
		30	30	2511	2592.99	2674.98
		30	40	2516.01	2592.99	2670
		30	50	2521.02	2592.99	2664.99
		30	60	2526	2592.99	2659.98
		30	70	2531.01	2592.99	2655
		30	80	2536.02	2592.99	2649.99
		30	90	2541	2592.99	2644.98
		30	100	2546.01	2592.99	2640
N66	1710-1780	15	5	1712.5	1745	1777.5
		15,30	10	1715	1745	1775
		15,30	15	1717.5	1745	1772.5
		15,30	20	1720	1745	1770
		15,30	25	1722.5	1745	1767.5
		15,30	30	1725	1745	1765
		15,30	40	1730	1745	1760
N71	663-698	15	5	665.5	680.5	695.5
		15,30	10	668	680.5	693
		15,30	15	670.5	680.5	690.5
		15,30	20	673	680.5	688

Bands	Frequency Range (MHz)	SCS (kHz)	Bandwidth (MHz)	Test Frequency (MHz)		
				Low	Middle	High
N77_3	3700-3980	15,30	10	3705	3840	3975
		15,30	15	3707.5	3840	3972.5
		15,30	20	3710	3840	3970
		15,30	30	3715	3840	3965
		15,30	40	3720	3840	3960
		15,30	50	3725	3840	3955
		30	60	3730	3840	3950
		30	70	3735	3840	3945
		30	80	3740	3840	3940
		30	90	3745	3840	3935
		30	100	3750	3840	3930
N78_1	3450-3550	15,30	10	3455	3500	3545
		15,30	15	3457.5	3500	3542.5
		15,30	20	3460	3500	3540
		15,30	30	3465	3500	3535
		15,30	40	3470	3500	3530
		15,30	50	3475	3500	3525
		30	60	3480	3500	3520
		30	70	3485	3500	3515
		30	80	3490	3500	3510
		30	90	3495	3500	3505
		30	100	/	3500	/

Note:

1. SCS 15kHz, 30kHz was supports by the device, they have same output power, so only SCS 15kHz was tested for FDD band, and SCS 30kHz tested for TDD band.

2. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report.

Equipment Modifications

No modification was made to the EUT.

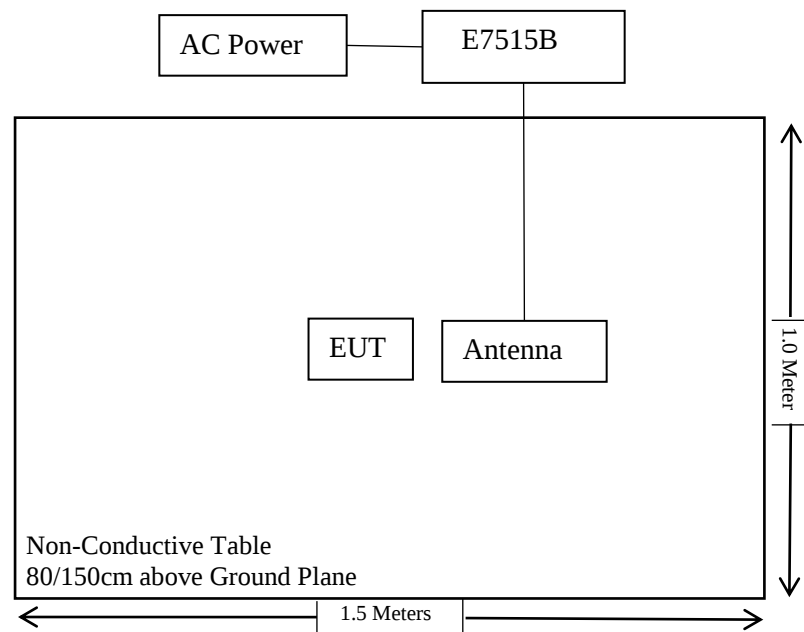
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120284

Support Cable Description

Cable Description	Length (m)	From / Port	To
Un-shielded Detachable AC cable	1.2	AC Power	E7515B

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Standard Rule(s)	Description of Test	Result
§1.1307 , §2.1093	RF Exposure (SAR)	Compliant
§2.1046; §22.913 (a) (d); § 24.232 (c)(d); §27.50 (c)(d)(h)(i)(k)	RF Output Power	Compliant
§2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; §22.905; § 22.917; § 24.238; §27.53	Occupied Bandwidth & 26dB Bandwidth	Compliant
§2.1051; §22.917 (a); §24.238 (a); §27.53	Spurious Emissions at Antenna Terminal	Compliant
§2.1053; §22.917 (a); §24.238 (a); §27.53	Field Strength of Spurious Radiation	Compliant
§22.917 (a); §24.238 (a); §27.53 (g)(h)(l)(m)(n)	Band Edge	Compliant
§ 2.1055; §22.355; §24.235; §27.54	Frequency stability	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310N	186238	2025/04/29	2026/04/28
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Chamber A Cable	Cable A3	Cable A3	2025/04/29	2026/04/28
Unknown	Chamber A Cable	Cable A4	Cable A4	2025/04/29	2026/04/28
COM-POWER	Dipole Antenna	3121C	9209-860	NCR	NCR
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2025/03/26	2026/03/25
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
The Electro-Mechanics Co.	Horn Antenna	3115	9107-3694	2024/06/06	2027/06/05
Unknown	Chamber B Cable	Cable B1	Cable B1	2024/12/06	2025/12/05
Unknown	Chamber B Cable	Cable B2	Cable B2	2024/12/06	2025/12/05
Unknown	Chamber B Cable	Cable B3	Cable B3	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2025/08/12	2026/08/11
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2025/08/12	2026/08/11
A.H.System	Pre-amplifier	PAM-1840VH	190	2025/04/29	2026/04/28
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17
UTIFLEX	Chamber B Cable	Cable B4	Cable B4	2024/12/18	2025/12/17
Anritsu	Radio Communication Test Station	MT8000A	6262309799	2024/05/17	2025/05/16
Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120284	2025/05/16	2026/05/15

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
R&S	Spectrum Analyzer	FSV40	101942	2024/09/20	2025/09/19
R&S	Spectrum Analyzer	FSV40	101942	2025/09/01	2026/08/31
BACL	Temperature & Humidity Chamber	BTH-150-40	30145	2024/12/06	2025/12/05
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2025/04/29	2026/04/28
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM220	2025/06/26	2026/06/25
WEINSCHEL	Power Splitter	1515	RH476	2025/06/26	2026/06/25
Unknown	RF Cable	65475	01670515	2025/06/26	2026/06/25
Anritsu	Radio Communication Test Station	MT8000A	6262309799	2025/05/16	2026/05/16
Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120284	2025/05/16	2026/05/15

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

REQUIREMENTS AND TEST PROCEDURES

Applicable Standard for Part 22 Subpart H

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-to-average 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 rms equivalent 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.

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

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

Applicable Standard for Part 24 Subpart E

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.

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.

Frequency stability

FCC §24.235

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

Applicable Standard for Part 27

RF Output Power

FCC §27.50

(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.

(j) The following power requirements apply to stations transmitting in the 3700–3980 MHz band:

(3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(k) The following power requirements apply to stations transmitting in the 3450–3550 MHz band:

(3) Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Spurious Emissions

FCC §27.53

(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.

(l)(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.

(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 than $43 + 10 \log (P)$ 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.

(n)(2) For mobile operations in the 3450 – 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed – 13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.

Frequency stability

FCC §27.54

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

Test Method

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

According to CFR Part 2.1046, ANSI C63.26-2015 Section 5.2:

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

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

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

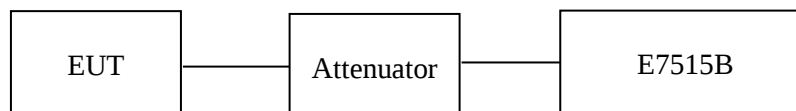
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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.

Note: The ERP is for below 1GHz, EIRP is for above 1GHz.

Test Setup Block:



Note: the worst case path loss (cable loss and splitter inset loss) among the test frequency range has included in plots.

Occupied Bandwidth

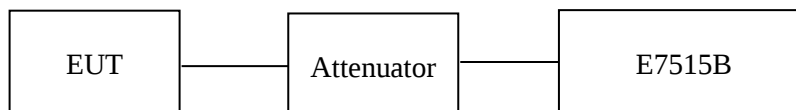
According to ANSI C63.26-2015 Section 5.4.4

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.

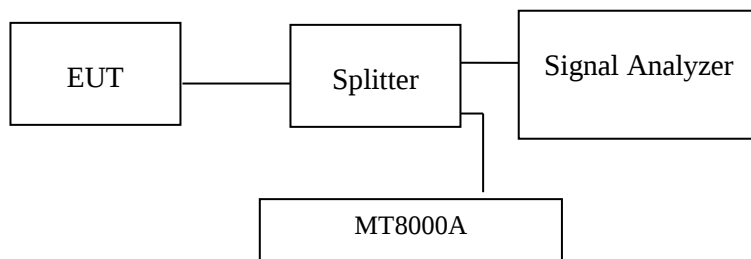
The following procedure shall be used for measuring (99%) power bandwidth:

- 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 $1.5 \times \text{OBW}$ 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 $\geq 3 \times \text{RBW}$.
- 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:



or

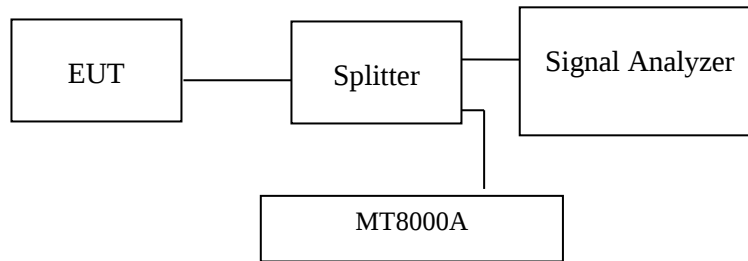


Note: the worst case path loss (cable loss and splitter inset loss) among the test frequency range has included in plots.

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.

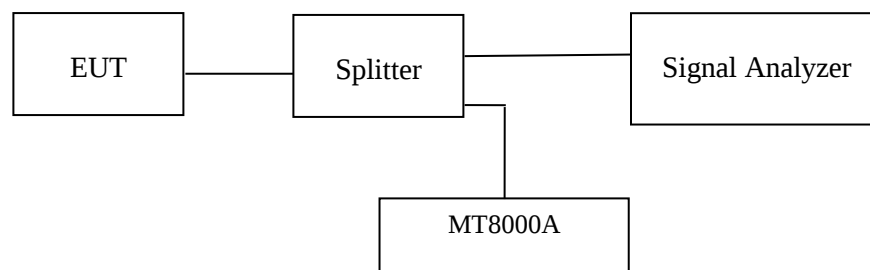
Test Setup Block:

Note: the worst case path loss (cable loss and splitter inset loss) among the test frequency range has included in plots.

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 26dB EBW) 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 26dB EBW) to increase accuracy, but the measurement result must subsequently be integrated over the full reference bandwidth.

Test Setup Block:

Note: the worst case path loss (cable loss and splitter inset loss) among the test frequency range has included in plots.

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.

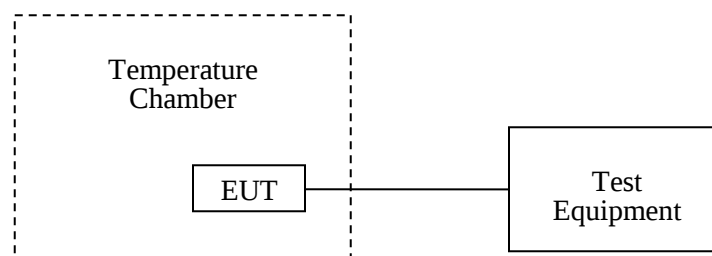
The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is 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 $\pm 15\%$ 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:



Transmitter unwanted emissions- Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

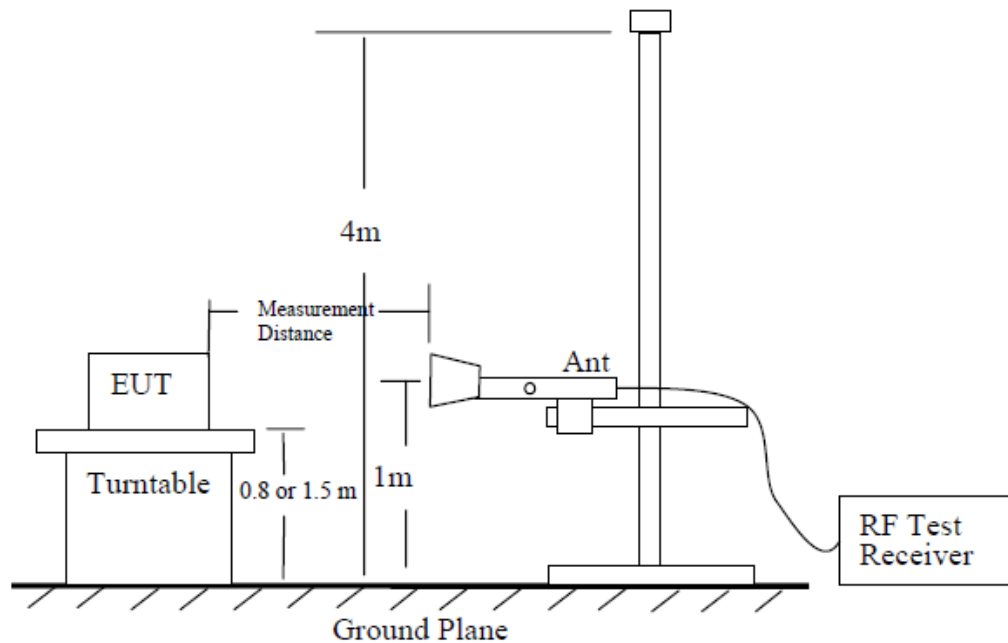
Test setup:

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

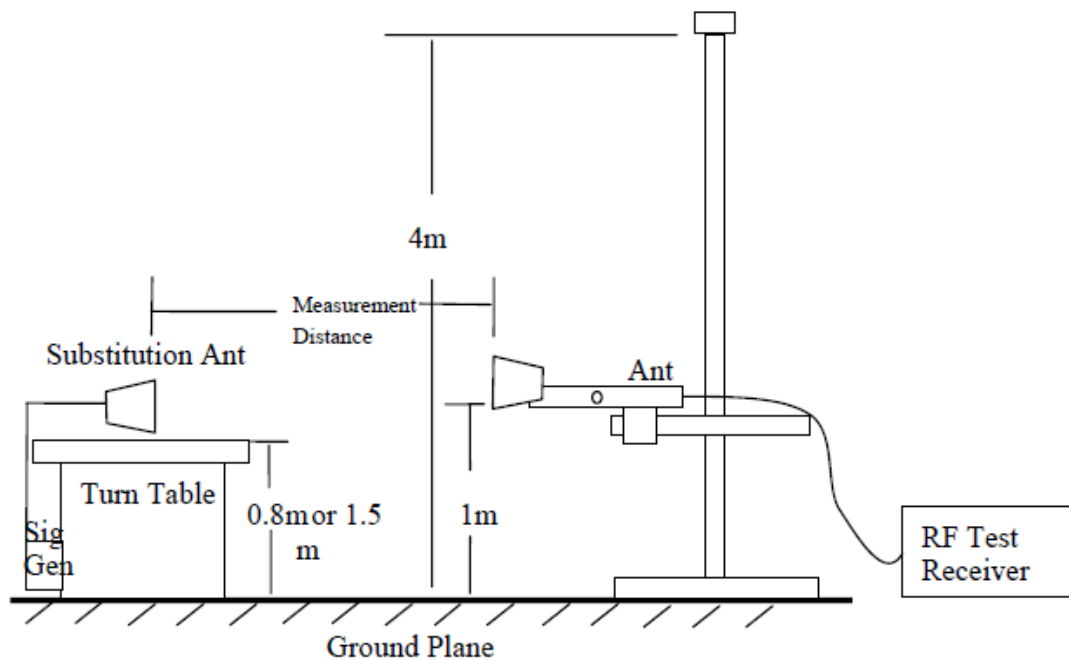


Figure 7—Substitution method set-up for radiated emission

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:
$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
where
 - P_e = equivalent emission power in dBm
 - P_s = source (signal generator) power in dBmNOTE—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: $\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB}$. 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.

TEST DATA AND RESULTS

Spurious Radiated Emissions

Environmental Conditions

Temperature (°C)	24.5~25.3°C	Relative Humidity (%)	46~53 %
ATM Pressure (kPa):	99.2~101.2kPa	Test engineer:	Anson Su & Wing K Ji
Test date:	2025.09.28-2025.10.14		
EUT operation mode:	Transmitting		
Note:	After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded.		

Test Mode Description

Mode	NR Band	Channel	SCS(kHz)	Condition
SA	n2	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n5	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n7	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n12	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n25	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n41	Low/Middle/High	30	10MHz_DFT-s-OFDM (QPSK)
	n66	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n71	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n77	Low/Middle/High	30	10MHz_DFT-s-OFDM (QPSK)
	n78	Low/Middle/High	30	10MHz_DFT-s-OFDM (QPSK)
NSA	DC_2A_n7A	Low/Middle/High	15	10MHz 5MHz_QPSK DFT-s-OFDM (QPSK)
	DC_2A_n66A	Low/Middle/High	15	10MHz 5MHz_QPSK DFT-s-OFDM (QPSK)
	DC_2A_n78A	Low/Middle/High	30	10MHz 10MHz_QPSK DFT-s-OFDM (QPSK)
	DC_4A_n7A	Low/Middle/High	15	10MHz 5MHz_QPSK DFT-s-OFDM (QPSK)
	DC_4A_n78A	Low/Middle/High	30	10MHz 10MHz_QPSK DFT-s-OFDM (QPSK)
	DC_5A_n66A	Low/Middle/High	15	10MHz 5MHz_QPSK DFT-s-OFDM (QPSK)
	DC_5A_n78A	Low/Middle/High	30	10MHz 10MHz_QPSK DFT-s-OFDM (QPSK)
	DC_7A_n66A	Low/Middle/High	15	10MHz 5MHz_QPSK DFT-s-OFDM (QPSK)
	DC_7A_n78A	Low/Middle/High	30	10MHz 10MHz_QPSK DFT-s-OFDM (QPSK)
	DC_12A_n66A	Low/Middle/High	15	10MHz 5MHz_QPSK DFT-s-OFDM (QPSK)
	DC_66A_n7A	Low/Middle/High	15	10MHz 5MHz_QPSK DFT-s-OFDM (QPSK)
	DC_66A_n78A	Low/Middle/High	30	10MHz 10MHz_QPSK DFT-s-OFDM (QPSK)

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N2_ ANT 1 (30MHz-20GHz)								
Low Channel								
120.2	31.84	H	-82.6	0.75	0	-83.35	-13	70.35
116.8	31.93	V	-76.5	0.75	0	-77.25	-13	64.25
3705.0	58.25	H	-54.5	2.1	9.7	-46.90	-13	33.90
3705.0	56.91	V	-55.7	2.1	9.7	-48.10	-13	35.10
Middle Channel								
120.2	32.03	H	-82.4	0.75	0	-83.15	-13	70.15
116.8	32.14	V	-76.3	0.75	0	-77.05	-13	64.05
3760.0	58.59	H	-54.8	2	9.6	-47.20	-13	34.20
3760.0	56.48	V	-56.8	2	9.6	-49.20	-13	36.20
High Channel								
120.2	33.62	H	-80.8	0.75	0	-81.55	-13	68.55
116.8	33.74	V	-74.7	0.75	0	-75.45	-13	62.45
3815.0	60.43	H	-53	2	9.6	-45.40	-13	32.40
3815.0	55.15	V	-58.2	2	9.6	-50.60	-13	37.60
N5_ ANT 0 (30MHz-10GHz)								
Low Channel								
120.2	31.71	H	-82.7	0.75	0	-83.45	-13	70.45
116.8	31.83	V	-76.6	0.75	0	-77.35	-13	64.35
1653.0	50.34	H	-63.8	1.5	8.8	-56.50	-13	43.50
1653.0	51.15	V	-63.6	1.5	8.8	-56.30	-13	43.30
Middle Channel								
120.2	31.92	H	-82.5	0.75	0	-83.25	-13	70.25
116.8	32.03	V	-76.4	0.75	0	-77.15	-13	64.15
1673.0	50.78	H	-63.4	1.5	8.8	-56.10	-13	43.10
1673.0	51.69	V	-63.1	1.5	8.8	-55.80	-13	42.80
High Channel								
120.2	33.51	H	-80.9	0.75	0	-81.65	-13	68.65
116.8	33.63	V	-74.8	0.75	0	-75.55	-13	62.55
1693.0	51.71	H	-62.5	1.5	8.8	-55.20	-13	42.20
1693.0	52.09	V	-62.7	1.5	8.8	-55.40	-13	42.40

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N7_ ANT 1 (30MHz-27GHz)								
Low Channel								
120.2	32.56	H	-81.8	0.75	0	-82.55	-25	57.55
116.8	32.34	V	-76.1	0.75	0	-76.85	-25	51.85
5005.0	52.78	H	-59.9	2	10.6	-51.30	-25	26.30
5005.0	51.61	V	-60.4	2	10.6	-51.80	-25	26.80
Middle Channel								
120.2	32.81	H	-81.6	0.75	0	-82.35	-25	57.35
116.8	32.59	V	-75.8	0.75	0	-76.55	-25	51.55
5070.0	54.36	H	-58.2	2.6	10.6	-50.20	-25	25.20
5070.0	52.94	V	-59.1	2.6	10.6	-51.10	-25	26.10
High Channel								
120.2	33.51	H	-80.9	0.75	0	-81.65	-25	56.65
116.8	33.46	V	-74.9	0.75	0	-75.65	-25	50.65
5135.0	53.62	H	-59	2.6	10.6	-51.00	-25	26.00
5135.0	51.94	V	-60.1	2.6	10.6	-52.10	-25	27.10
N12_ ANT 0 (30MHz-10GHz)								
Low Channel								
120.2	31.63	H	-82.8	0.75	0	-83.55	-13	70.55
116.8	31.75	V	-76.7	0.75	0	-77.45	-13	64.45
1403.0	53.91	H	-60.4	0.9	7.8	-53.50	-13	40.50
1403.0	52.53	V	-62.5	0.9	7.8	-55.60	-13	42.60
Middle Channel								
120.2	32.14	H	-82.3	0.75	0	-83.05	-13	70.05
116.8	32.21	V	-76.2	0.75	0	-76.95	-13	63.95
1415.0	52.04	H	-62.3	0.9	7.8	-55.40	-13	42.40
1415.0	51.62	V	-63.4	0.9	7.8	-56.50	-13	43.50
High Channel								
120.2	33.42	H	-81	0.75	0	-81.75	-13	68.75
116.8	33.51	V	-74.9	0.75	0	-75.65	-13	62.65
1427.0	52.25	H	-62.1	0.9	7.8	-55.20	-13	42.20
1427.0	52.42	V	-62.6	0.9	7.8	-55.70	-13	42.70

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N25_ ANT 1 (30MHz-20GHz)								
Low Channel								
120.2	31.53	H	-82.9	0.75	0	-83.65	-13	70.65
116.8	31.64	V	-76.8	0.75	0	-77.55	-13	64.55
3705.0	62.34	H	-50.4	2.1	9.7	-42.80	-13	29.80
3705.0	58.19	V	-54.4	2.1	9.7	-46.80	-13	33.80
Middle Channel								
120.2	32.42	H	-82	0.75	0	-82.75	-13	69.75
116.8	32.53	V	-75.9	0.75	0	-76.65	-13	63.65
3765.0	61.75	H	-51.6	2	9.6	-44.00	-13	31.00
3765.0	57.39	V	-55.9	2	9.6	-48.30	-13	35.30
High Channel								
120.2	33.32	H	-81.1	0.75	0	-81.85	-13	68.85
116.8	33.41	V	-75	0.75	0	-75.75	-13	62.75
3825.0	63.4	H	-50	2	9.6	-42.40	-13	29.40
3825.0	58.58	V	-54.7	2	9.6	-47.10	-13	34.10
N41_ ANT 1 (30MHz-27GHz)								
Low Channel								
120.2	32.39	H	-82	0.75	0	-82.75	-25	57.75
116.8	32.12	V	-76.3	0.75	0	-77.05	-25	52.05
5002.0	53.49	H	-59.2	2	10.6	-50.60	-25	25.60
5002.0	58.61	V	-53.4	2	10.6	-44.80	-25	19.80
Middle Channel								
120.2	33.04	H	-81.4	0.75	0	-82.15	-25	57.15
116.8	32.89	V	-75.5	0.75	0	-76.25	-25	51.25
5186.0	52.36	H	-60.1	2.4	10.6	-51.90	-25	26.90
5186.0	59.41	V	-52.7	2.4	10.6	-44.50	-25	19.50
High Channel								
120.2	33.36	H	-81	0.75	0	-81.75	-25	56.75
116.8	33.18	V	-75.2	0.75	0	-75.95	-25	50.95
5370.0	52.18	H	-59.8	2.3	10.6	-51.50	-25	26.50
5370.0	58.96	V	-53	2.3	10.6	-44.70	-25	19.70

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N66_ ANT 1 (30MHz-20GHz)								
Low channel								
120.2	31.44	H	-83	0.75	0	-83.75	-13	70.75
116.8	31.52	V	-76.9	0.75	0	-77.65	-13	64.65
3425.0	53.92	H	-59.8	1.7	9.6	-51.90	-13	38.90
3425.0	54.24	V	-59.2	1.7	9.6	-51.30	-13	38.30
Middle channel								
120.2	32.33	H	-82.1	0.75	0	-82.85	-13	69.85
116.8	32.41	V	-76	0.75	0	-76.75	-13	63.75
3490.0	53.29	H	-60.2	1.8	9.7	-52.30	-13	39.30
3490.0	53.66	V	-59.5	1.8	9.7	-51.60	-13	38.60
High channel								
120.2	33.24	H	-81.2	0.75	0	-81.95	-13	68.95
116.8	33.35	V	-75.1	0.75	0	-75.85	-13	62.85
3555.0	54.22	H	-58.5	1.9	9.6	-50.80	-13	37.80
3555.0	53.63	V	-58.9	1.9	9.6	-51.20	-13	38.20
N71_ ANT 1 (30MHz-40GHz)								
Low channel								
120.2	31.32	H	-83.1	0.75	0	-83.85	-13	70.85
116.8	31.43	V	-77	0.75	0	-77.75	-13	64.75
1331.0	53.54	H	-60.8	1	7.3	-54.50	-13	41.50
1331.0	53.59	V	-61.7	1	7.3	-55.40	-13	42.40
Middle channel								
120.2	32.23	H	-82.2	0.75	0	-82.95	-13	69.95
116.8	32.33	V	-76.1	0.75	0	-76.85	-13	63.85
1361.0	54.84	H	-59.5	0.9	7.8	-52.60	-13	39.60
1361.0	54.61	V	-60.4	0.9	7.8	-53.50	-13	40.50
High channel								
120.2	33.14	H	-81.3	0.75	0	-82.05	-13	69.05
116.8	33.21	V	-75.2	0.75	0	-75.95	-13	62.95
1391.0	54.84	H	-59.5	0.9	7.8	-52.60	-13	39.60
1391.0	54.61	V	-60.4	0.9	7.8	-53.50	-13	40.50

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N77_3(3700MHz-3980MHz) _ ANT2 (30MHz-40GHz)								
Low channel								
120.2	32.52	H	-81.9	0.75	0	-82.65	-13	69.65
116.8	32.63	V	-75.8	0.75	0	-76.55	-13	63.55
7410.0	53.2	H	-52.9	2.6	10.5	-45.00	-13	32.00
7410.0	53.49	V	-52.9	2.6	10.5	-45.00	-13	32.00
Middle channel								
120.2	32.74	H	-81.7	0.75	0	-82.45	-13	69.45
116.8	32.82	V	-75.6	0.75	0	-76.35	-13	63.35
7680.0	53.63	H	-52	2.7	10.4	-44.30	-13	31.30
7680.0	53.52	V	-52.5	2.7	10.4	-44.80	-13	31.80
High channel								
120.2	33.02	H	-81.4	0.75	0	-82.15	-13	69.15
116.8	33.14	V	-75.3	0.75	0	-76.05	-13	63.05
7950.0	54.26	H	-50.9	2.7	10.8	-42.80	-13	29.80
7950.0	53.9	V	-51.6	2.7	10.8	-43.50	-13	30.50
N78_1 (3450MHz-3550MHz) _ ANT2 (30MHz-40GHz)								
Low channel								
120.2	32.63	H	-81.8	0.75	0	-82.55	-13	69.55
116.8	32.72	V	-75.7	0.75	0	-76.45	-13	63.45
6910.0	52.84	H	-55.2	2.5	11	-46.70	-13	33.70
6910.0	53.51	V	-54.6	2.5	11	-46.10	-13	33.10
Middle channel								
120.2	32.81	H	-81.6	0.75	0	-82.35	-13	69.35
116.8	32.94	V	-75.5	0.75	0	-76.25	-13	63.25
7000.0	54.78	H	-53	2.3	10.8	-44.50	-13	31.50
7000.0	53.96	V	-53.9	2.3	10.8	-45.40	-13	32.40
High channel								
120.2	32.94	H	-81.5	0.75	0	-82.25	-13	69.25
116.8	33.01	V	-75.4	0.75	0	-76.15	-13	63.15
7090.0	54.17	H	-53.5	2.5	10.7	-45.30	-13	32.30
7090.0	53.76	V	-54	2.5	10.7	-45.80	-13	32.80

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_2A_n7A (30MHz-27GHz)								
Low channel								
120.2	32.33	H	-82.1	0.75	0	-82.85	-25	57.85
116.8	32.52	V	-75.9	0.75	0	-76.65	-25	51.65
5005	52.23	H	-60.5	2	10.6	-51.90	-25	26.90
5005	53.11	V	-58.9	2	10.6	-50.30	-25	25.30
Middle channel								
120.2	32.43	H	-82	0.75	0	-82.75	-25	57.75
116.8	32.64	V	-75.8	0.75	0	-76.55	-25	51.55
5070	52.39	H	-60.2	2.6	10.6	-52.20	-25	27.20
5070	52.04	V	-60	2.6	10.6	-52.00	-25	27.00
High channel								
120.2	33.47	H	-80.9	0.75	0	-81.65	-25	56.65
116.8	33.68	V	-74.7	0.75	0	-75.45	-25	50.45
5135	51.99	H	-60.6	2.6	10.6	-52.60	-25	27.60
5135	52.24	V	-59.8	2.6	10.6	-51.80	-25	26.80
DC_2A_n66A (30MHz-10GHz) (30MHz-20GHz)								
Low channel								
120.2	31.32	H	-83.1	0.75	0	-83.85	-13	70.85
116.8	31.44	V	-77	0.75	0	-77.75	-13	64.75
3425	51.57	H	-62.2	1.7	9.6	-54.30	-13	41.30
3425	52.14	V	-61.3	1.7	9.6	-53.40	-13	40.40
Middle channel								
120.2	31.41	H	-83	0.75	0	-83.75	-13	70.75
116.8	31.53	V	-76.9	0.75	0	-77.65	-13	64.65
3490	50.71	H	-62.8	1.8	9.7	-54.90	-13	41.90
3490	51.58	V	-61.6	1.8	9.7	-53.70	-13	40.70
High channel								
120.2	33.42	H	-81	0.75	0	-81.75	-13	68.75
116.8	33.49	V	-74.9	0.75	0	-75.65	-13	62.65
3555	51.39	H	-61.3	1.9	9.6	-53.60	-13	40.60
3555	50.97	V	-61.5	1.9	9.6	-53.80	-13	40.80

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_2A_n78A (30MHz-40GHz)								
Low channel								
120.2	31.13	H	-83.3	0.75	0	-84.05	-13	71.05
116.8	31.24	V	-77.2	0.75	0	-77.95	-13	64.95
6910	54.59	H	-53.4	2.5	11	-44.9	-13	31.9
6910	54.6	V	-53.5	2.5	11	-45	-13	32
Middle channel								
120.2	31.22	H	-83.2	0.75	0	-83.95	-13	70.95
116.8	31.32	V	-77.1	0.75	0	-77.85	-13	64.85
7000	54.58	H	-53.2	2.3	10.8	-44.7	-13	31.7
7000	54.74	V	-53.1	2.3	10.8	-44.6	-13	31.6
High channel								
120.2	33.56	H	-80.8	0.75	0	-81.55	-13	68.55
116.8	33.64	V	-74.8	0.75	0	-75.55	-13	62.55
7090	53.7	H	-53.9	2.5	10.7	-45.7	-13	32.7
7090	54.32	V	-53.5	2.5	10.7	-45.3	-13	32.3
DC_4A_n7A (30MHz-27GHz)								
Low channel								
120.2	32.51	H	-81.9	0.75	0	-82.65	-25	57.65
116.8	32.73	V	-75.7	0.75	0	-76.45	-25	51.45
5005	53.17	H	-59.5	2	10.6	-50.90	-25	25.90
5005	53.64	V	-58.3	2	10.6	-49.70	-25	24.70
Middle channel								
120.2	32.62	H	-81.8	0.75	0	-82.55	-25	57.55
116.8	32.81	V	-75.6	0.75	0	-76.35	-25	51.35
5070	52.05	H	-60.5	2.6	10.6	-52.50	-25	27.50
5070	52.74	V	-59.3	2.6	10.6	-51.30	-25	26.30
High channel								
120.2	33.39	H	-81	0.75	0	-81.75	-25	56.75
116.8	33.51	V	-74.9	0.75	0	-75.65	-25	50.65
5135	52.84	H	-59.8	2.6	10.6	-51.80	-25	26.80
5135	53.14	V	-58.9	2.6	10.6	-50.90	-25	25.90

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_4A_n78A (30MHz-40GHz)								
Low channel								
120.2	31.54	H	-82.9	0.75	0	-83.65	-13	70.65
116.8	31.62	V	-76.8	0.75	0	-77.55	-13	64.55
6910	53.84	H	-54.2	2.5	11	-45.7	-13	32.7
6910	54.18	V	-53.9	2.5	11	-45.4	-13	32.4
Middle channel								
120.2	31.63	H	-82.8	0.75	0	-83.55	-13	70.55
116.8	31.75	V	-76.7	0.75	0	-77.45	-13	64.45
7000	54.67	H	-53.1	2.3	10.8	-44.6	-13	31.6
7000	54.83	V	-53	2.3	10.8	-44.5	-13	31.5
High channel								
120.2	33.25	H	-81.1	0.75	0	-81.85	-13	68.85
116.8	33.24	V	-75.2	0.75	0	-75.95	-13	62.95
7090	54.54	H	-53.1	2.5	10.7	-44.9	-13	31.9
7090	54.21	V	-53.6	2.5	10.7	-45.4	-13	32.4
DC_5A_n66A (30MHz-20GHz)								
Low channel								
120.2	31.74	H	-82.7	0.75	0	-83.45	-13	70.45
116.8	31.82	V	-76.6	0.75	0	-77.35	-13	64.35
3425	52.08	H	-61.7	1.7	9.6	-53.80	-13	40.80
3425	52.41	V	-61	1.7	9.6	-53.10	-13	40.10
Middle channel								
120.2	31.84	H	-82.6	0.75	0	-83.35	-13	70.35
116.8	31.92	V	-76.5	0.75	0	-77.25	-13	64.25
3555	50.66	H	-62.1	1.9	9.6	-54.40	-13	41.40
3555	51.27	V	-61.2	1.9	9.6	-53.50	-13	40.50
High channel								
120.2	33.36	H	-81	0.75	0	-81.75	-13	68.75
116.8	33.31	V	-75.1	0.75	0	-75.85	-13	62.85
3555	51.89	H	-60.8	1.9	9.6	-53.10	-13	40.10
3555	50.91	V	-61.6	1.9	9.6	-53.90	-13	40.90

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_5A_n78A (30MHz-40GHz)								
Low channel								
120.2	31.93	H	-82.5	0.75	0	-83.25	-13	70.25
116.8	32.04	V	-76.4	0.75	0	-77.15	-13	64.15
6910	54.56	H	-53.4	2.5	11	-44.9	-13	31.9
6910	53.87	V	-54.2	2.5	11	-45.7	-13	32.7
Middle channel								
120.2	32.02	H	-82.4	0.75	0	-83.15	-13	70.15
116.8	32.13	V	-76.3	0.75	0	-77.05	-13	64.05
7000	54.76	H	-53	2.3	10.8	-44.5	-13	31.5
7000	54.33	V	-53.5	2.3	10.8	-45	-13	32
High channel								
120.2	33.13	H	-81.3	0.75	0	-82.05	-13	69.05
116.8	33.12	V	-75.3	0.75	0	-76.05	-13	63.05
7090	54.84	H	-52.8	2.5	10.7	-44.6	-13	31.6
7090	54.6	V	-53.2	2.5	10.7	-45	-13	32
DC_7A_n66A (30MHz-27GHz)								
Low channel								
120.2	32.14	H	-82.3	0.75	0	-83.05	-13	70.05
116.8	32.24	V	-76.2	0.75	0	-76.95	-13	63.95
3425	51.44	H	-62.3	1.7	9.6	-54.40	-13	41.40
3425	50.97	V	-62.5	1.7	9.6	-54.60	-13	41.60
Middle channel								
120.2	32.24	H	-82.2	0.75	0	-82.95	-13	69.95
116.8	32.35	V	-76.1	0.75	0	-76.85	-13	63.85
3490	52.82	H	-60.7	1.8	9.7	-52.80	-13	39.80
3490	51.95	V	-61.3	1.8	9.7	-53.40	-13	40.40
High channel								
120.2	32.32	H	-82.1	0.75	0	-82.85	-13	69.85
116.8	32.44	V	-76	0.75	0	-76.75	-13	63.75
3555	51.07	H	-61.7	1.9	9.6	-54.00	-13	41.00
3555	52.81	V	-59.7	1.9	9.6	-52.00	-13	39.00

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_7A_n78A (30MHz-40GHz)								
Low channel								
120.2	31.06	H	-83.3	0.75	0	-84.05	-13	71.05
116.8	31.15	V	-77.3	0.75	0	-78.05	-13	65.05
6910	55.11	H	-52.9	2.5	11	-44.4	-13	31.4
6910	54.45	V	-53.6	2.5	11	-45.1	-13	32.1
Middle channel								
120.2	33.61	H	-80.8	0.75	0	-81.55	-13	68.55
116.8	33.72	V	-74.7	0.75	0	-75.45	-13	62.45
7000	55.32	H	-52.4	2.3	10.8	-43.9	-13	30.9
7000	54.77	V	-53.1	2.3	10.8	-44.6	-13	31.6
High channel								
120.2	33.71	H	-80.7	0.75	0	-81.45	-13	68.45
116.8	33.86	V	-74.5	0.75	0	-75.25	-13	62.25
7090	54.08	H	-53.6	2.5	10.7	-45.4	-13	32.4
7090	54.59	V	-53.2	2.5	10.7	-45	-13	32
DC_12A_n66A (30MHz-20GHz)								
Low channel								
120.2	32.43	H	-82	0.75	0	-82.75	-13	69.75
116.8	32.54	V	-75.9	0.75	0	-76.65	-13	63.65
3425	51.25	H	-62.5	1.7	9.6	-54.60	-13	41.60
3425	51.02	V	-62.4	1.7	9.6	-54.50	-13	41.50
Middle channel								
120.2	32.54	H	-81.9	0.75	0	-82.65	-13	69.65
116.8	32.61	V	-75.8	0.75	0	-76.55	-13	63.55
3490	51.48	H	-62	1.8	9.7	-54.10	-13	41.10
3490	52.29	V	-60.9	1.8	9.7	-53.00	-13	40.00
High channel								
120.2	32.63	H	-81.8	0.75	0	-82.55	-13	69.55
116.8	32.75	V	-75.7	0.75	0	-76.45	-13	63.45
3555	52.18	H	-60.5	1.9	9.6	-52.80	-13	39.80
3555	51.47	V	-61	1.9	9.6	-53.30	-13	40.30

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_66A_n7A (30MHz-27GHz)								
Low channel								
120.2	32.91	H	-81.5	0.75	0	-82.25	-25	57.25
116.8	33.12	V	-75.3	0.75	0	-76.05	-25	51.05
5005	52.74	H	-59.9	2	10.6	-51.30	-25	26.30
5005	51.6	V	-60.4	2	10.6	-51.80	-25	26.80
Middle channel								
120.2	33.04	H	-81.4	0.75	0	-82.15	-25	57.15
116.8	33.26	V	-75.1	0.75	0	-75.85	-25	50.85
5070	52.17	H	-60.4	2.6	10.6	-52.40	-25	27.40
5070	52.66	V	-59.4	2.6	10.6	-51.40	-25	26.40
High channel								
5070	52.17	H	-60.4	2.6	10.6	-52.40	-25	27.40
5070	52.66	V	-59.4	2.6	10.6	-51.40	-25	26.40
5135	53.88	H	-58.7	2.6	10.6	-50.70	-25	25.70
5135	52.43	V	-59.6	2.6	10.6	-51.60	-25	26.60
DC_66A_n78A (30MHz-40GHz)								
Low channel								
120.2	32.84	H	-81.6	0.75	0	-82.35	-13	69.35
116.8	32.81	V	-75.6	0.75	0	-76.35	-13	63.35
6910	54.1	H	-53.9	2.5	11	-45.4	-13	32.4
6910	54.29	V	-53.8	2.5	11	-45.3	-13	32.3
Middle channel								
120.2	32.96	H	-81.4	0.75	0	-82.15	-13	69.15
116.8	32.94	V	-75.5	0.75	0	-76.25	-13	63.25
7000	54.04	H	-53.7	2.3	10.8	-45.2	-13	32.2
7000	54.82	V	-53	2.3	10.8	-44.5	-13	31.5
High channel								
120.2	33.06	H	-81.3	0.75	0	-82.05	-13	69.05
116.8	33.04	V	-75.4	0.75	0	-76.15	-13	63.15
7090	54.19	H	-53.5	2.5	10.7	-45.3	-13	32.3
7090	54.34	V	-53.4	2.5	10.7	-45.2	-13	32.2

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: Substituted Level - Cable loss+ Antenna Gain

Margin = Absolute Level-Limit

RF Conducted data

Please refer to the appendix A1~ F1.

FCC §1.1310, §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: 2501V03643E-SA.

EUT PHOTOGRAPHS

Please refer to the attachment 2502V32646-RF-EXP# External photo and 2502V32646-RF-INP# Internal photo, issued by Bay Area Compliance Laboratories Corp. (Dongguan).

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501V03643E-RF-TSP Test Setup photo.

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