

FCC RF TEST REPORT

For

Amplimax

Model Number: EPRL16, EPRL20

FCC ID: 2AZC5-01

Report Number : WT218000494

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection
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Test report declaration

Applicant : ELSYS EQUIPAMENTOS ELETRONICOS LTDA
Address : RUA DOUTOR ALCIDES GOMES MIRANDA, 251 Valinhos SP
13277-220 Brazil
Manufacturer : ELSYS EQUIPAMENTOS ELETRONICOS LTDA
Address : RUA DOUTOR ALCIDES GOMES MIRANDA, 251 Valinhos SP
13277-220 Brazil
EUT Description : Amplimax

Model No. : EPRL16, EPRL20
Trade mark : ELSYS
FCC ID : 2AZC5-01

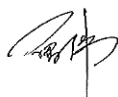
Test Standards:

FCC PART 2, 22H , 24E , 27 & 90R (2019)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26 (2015) & KDB971168 and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 2, 22H , 24E , 27 & 90R.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project
Engineer:



(Zeng Wei 曾伟)

Date: May 06, 2021

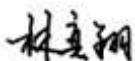
Checked by:



(Shi Changda 施昌达)

Date: May 06, 2021

Approved by:



(Lin Yixiang 林奕翔)

Date: May 06, 2021

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1. TEST RESULTS SUMMARY

FCC Measurement Specification	Limits Part(s)	Description	Result
2.1046	24.232 27.50	Conducted Power & Effective Radiated Power	PASS
2.1046	24.232 27.50	Peak to Average Ratio	PASS
2.1049	24.238(b) 27.53	Occupied Bandwidth & Emission Bandwidth	PASS
2.1051	24.238 27.53	Conducted Spurious Emissions	PASS
2.1051	24.238 27.53	Conducted Band Edge	PASS
2.1055	24.235 27.54	Frequency Stability	PASS
2.1053	24.238 27.53	Radiated Spurious Emissions	PASS

Remark: "N/A" means "Not applicable."

The tests documented in this report were performed in accordance with ANSI C63.26 (2015), FCC PART 22H , 24E , 27 & 90R.

2. GENERAL INFORMATION

2.1. Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The samples mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting from false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacture.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078, and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for Laboratory Accreditation (A2LA) and certificate number is 3292.01.

3. PRODUCT DESCRIPTION

3.1.EUT Description

Specification of the Equipment under Test

Hardware Revision :	02
Software Revision :	1.7.1.1
Frequency:	WCDMA 850: TX 824MHz~849MHz RX 869MHz~894MHz WCDMA 1700: TX: 1710MHz~1755MHz RX 2110MHz~2155MHz WCDMA 1900: TX 1850MHz~1910MHz RX 1930MHz~1990MHz LTE Band 2: TX 1850MHz~1910MHz RX 1930MHz~1990MHz LTE Band 4: TX: 1710MHz~1755MHz RX 2110MHz~2155MHz LTE Band 5: TX 824MHz~849MHz RX 869MHz~894MHz LTE Band 12: TX 699MHz ~ 716MHz RX 729 ~ 746MHz LTE Band 13: TX 777MHz ~ 787MHz RX 746~ 756MHz LTE Band 14: TX 788MHz ~ 798MHz RX 758~ 768MHz LTE Band 66: TX:1710MHz~1780MHz RX 2110MHz~2200MHz LTE Band 71: TX:663MHz~698MHz RX 617MHz~652MHz
Type(s) of Modulation:	WCDMA:QPSK LTE:QPSK, 16QAM
Remark:	All models are identical except that EPRL 16 does not have the voice feature and components related to the voice feature. Unless otherwise specified, the model EPRL 20 was chosen as representative model to perform all the tests. This EUT contains already certified module (FCC ID: XMR201808EC25AF) without other RF modules. According to the data reported by the certified module, only the worst data is reflected in this report.

Antenna Type:	Internal antenna
Antenna Gain:	663MHz~698MHz: 4.00 dBi 699MHz~716MHz: 5.62 dBi 777MHz~787MHz: 5.28 dBi 788MHz~798MHz: 5.26 dBi 824MHz~849MHz: 5.66 dBi 1710MHz~1780MHz: 6.65 dBi 1850MHz~1910MHz: 8.67 dBi
Power Supply Voltage	DC 11.4V (Low)/ DC12~24V (Nominal)/ DC25.2V (Max)

NOTE: The extreme test conditions for temperature and antenna gain were declared by the manufacturer.

3.2. Identification of Accessory equipment

AE #	Type	Manufacturer	Model	Serial Number
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3.3. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AZC5-01 filing to comply with FCC PART 22H, 24E, 27 and 90R.

3.4. Operating Condition of EUT

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).

Radiated spurious emissions were investigated below 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found on below 30MHz and 30MHz-1GHz.

TM1: WCDMA Mode with QPSK Modulation

TM2: LTE Mode with QPSK Modulation

TM3: LTE Mode with 16QAM Modulation

3.5. Conducted Power

Band: WCDMA Band IV	Average Power [dBm]		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	23.78	23.67	23.78
HSDPA Subtest-1	22.57	22.57	22.65
HSDPA Subtest-2	21.69	21.78	21.84
HSDPA Subtest-3	21.58	21.68	21.77
HSDPA Subtest-4	21.57	21.71	21.73

HSUPA Subtest-1	22.07	21.87	22.10
HSUPA Subtest-2	21.65	21.46	21.87
HSUPA Subtest-3	21.26	21.19	21.39
HSUPA Subtest-4	21.96	21.99	22.05
HSUPA Subtest-5	22.63	22.66	22.61

Band: WCDMA Band II	Average Power [dBm]		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.11	23.63	23.58
HSDPA Subtest-1	22.36	22.66	22.53
HSDPA Subtest-2	21.46	21.77	21.81
HSDPA Subtest-3	21.43	21.71	21.77
HSDPA Subtest-4	21.37	21.69	21.76
HSUPA Subtest-1	22.07	21.77	21.94
HSUPA Subtest-2	21.45	21.24	21.61
HSUPA Subtest-3	20.50	21.39	21.23
HSUPA Subtest-4	21.70	21.84	21.94
HSUPA Subtest-5	22.35	22.50	22.56

LTE					
Band	Bandwidth	Modulation	Channel	RB Config.	Power (dBm)
Band2	1.4MHz	QPSK	18607	1RB#0	23.09
Band2	1.4MHz	QPSK	18607	1RB#3	23.16
Band2	1.4MHz	QPSK	18607	1RB#5	23.00
Band2	1.4MHz	QPSK	18607	3RB#0	23.03
Band2	1.4MHz	QPSK	18607	3RB#1	22.95
Band2	1.4MHz	QPSK	18607	3RB#3	22.99
Band2	1.4MHz	QPSK	18607	6RB#0	21.97
Band2	1.4MHz	QPSK	18900	1RB#0	23.11
Band2	1.4MHz	QPSK	18900	1RB#3	23.02
Band2	1.4MHz	QPSK	18900	1RB#5	22.95
Band2	1.4MHz	QPSK	18900	3RB#0	22.93
Band2	1.4MHz	QPSK	18900	3RB#1	22.90
Band2	1.4MHz	QPSK	18900	3RB#3	23.01
Band2	1.4MHz	QPSK	18900	6RB#0	22.00
Band2	1.4MHz	QPSK	19193	1RB#0	22.92
Band2	1.4MHz	QPSK	19193	1RB#3	22.98
Band2	1.4MHz	QPSK	19193	1RB#5	22.75
Band2	1.4MHz	QPSK	19193	3RB#0	22.85

Band2	1.4MHz	QPSK	19193	3RB#1	22.81
Band2	1.4MHz	QPSK	19193	3RB#3	22.77
Band2	1.4MHz	QPSK	19193	6RB#0	21.85
Band2	1.4MHz	16QAM	18607	1RB#0	22.25
Band2	1.4MHz	16QAM	18607	1RB#3	22.46
Band2	1.4MHz	16QAM	18607	1RB#5	22.17
Band2	1.4MHz	16QAM	18607	3RB#0	22.08
Band2	1.4MHz	16QAM	18607	3RB#1	21.89
Band2	1.4MHz	16QAM	18607	3RB#3	21.95
Band2	1.4MHz	16QAM	18607	6RB#0	21.08
Band2	1.4MHz	16QAM	18900	1RB#0	22.04
Band2	1.4MHz	16QAM	18900	1RB#3	22.08
Band2	1.4MHz	16QAM	18900	1RB#5	22.11
Band2	1.4MHz	16QAM	18900	3RB#0	22.01
Band2	1.4MHz	16QAM	18900	3RB#1	21.95
Band2	1.4MHz	16QAM	18900	3RB#3	22.04
Band2	1.4MHz	16QAM	18900	6RB#0	21.13
Band2	1.4MHz	16QAM	19193	1RB#0	21.88
Band2	1.4MHz	16QAM	19193	1RB#3	22.12
Band2	1.4MHz	16QAM	19193	1RB#5	21.83
Band2	1.4MHz	16QAM	19193	3RB#0	21.91
Band2	1.4MHz	16QAM	19193	3RB#1	21.78
Band2	1.4MHz	16QAM	19193	3RB#3	21.83
Band2	1.4MHz	16QAM	19193	6RB#0	20.98
Band2	3MHz	QPSK	18615	1RB#0	23.04
Band2	3MHz	QPSK	18615	1RB#7	23.03
Band2	3MHz	QPSK	18615	1RB#14	23.13
Band2	3MHz	QPSK	18615	8RB#0	22.14
Band2	3MHz	QPSK	18615	8RB#4	22.12
Band2	3MHz	QPSK	18615	8RB#7	22.13
Band2	3MHz	QPSK	18615	15RB#0	21.98
Band2	3MHz	QPSK	18900	1RB#0	23.01
Band2	3MHz	QPSK	18900	1RB#7	22.91
Band2	3MHz	QPSK	18900	1RB#14	23.07
Band2	3MHz	QPSK	18900	8RB#0	21.95
Band2	3MHz	QPSK	18900	8RB#4	21.94
Band2	3MHz	QPSK	18900	8RB#7	21.94
Band2	3MHz	QPSK	18900	15RB#0	21.93
Band2	3MHz	QPSK	19185	1RB#0	22.78
Band2	3MHz	QPSK	19185	1RB#7	22.66
Band2	3MHz	QPSK	19185	1RB#14	22.75
Band2	3MHz	QPSK	19185	8RB#0	21.70
Band2	3MHz	QPSK	19185	8RB#4	21.80
Band2	3MHz	QPSK	19185	8RB#7	21.72
Band2	3MHz	QPSK	19185	15RB#0	21.75
Band2	3MHz	16QAM	18615	1RB#0	21.94

Band2	3MHz	16QAM	18615	1RB#7	21.76
Band2	3MHz	16QAM	18615	1RB#14	22.02
Band2	3MHz	16QAM	18615	8RB#0	21.15
Band2	3MHz	16QAM	18615	8RB#4	21.02
Band2	3MHz	16QAM	18615	8RB#7	21.07
Band2	3MHz	16QAM	18615	15RB#0	20.95
Band2	3MHz	16QAM	18900	1RB#0	22.06
Band2	3MHz	16QAM	18900	1RB#7	22.09
Band2	3MHz	16QAM	18900	1RB#14	22.02
Band2	3MHz	16QAM	18900	8RB#0	20.96
Band2	3MHz	16QAM	18900	8RB#4	21.03
Band2	3MHz	16QAM	18900	8RB#7	20.96
Band2	3MHz	16QAM	18900	15RB#0	20.96
Band2	3MHz	16QAM	19185	1RB#0	21.71
Band2	3MHz	16QAM	19185	1RB#7	21.44
Band2	3MHz	16QAM	19185	1RB#14	21.65
Band2	3MHz	16QAM	19185	8RB#0	20.82
Band2	3MHz	16QAM	19185	8RB#4	20.85
Band2	3MHz	16QAM	19185	8RB#7	20.88
Band2	3MHz	16QAM	19185	15RB#0	20.70
Band2	5MHz	QPSK	18625	1RB#0	23.05
Band2	5MHz	QPSK	18625	1RB#12	23.13
Band2	5MHz	QPSK	18625	1RB#24	23.06
Band2	5MHz	QPSK	18625	12RB#0	22.01
Band2	5MHz	QPSK	18625	12RB#6	22.10
Band2	5MHz	QPSK	18625	12RB#13	22.02
Band2	5MHz	QPSK	18625	25RB#0	21.98
Band2	5MHz	QPSK	18900	1RB#0	22.97
Band2	5MHz	QPSK	18900	1RB#12	22.96
Band2	5MHz	QPSK	18900	1RB#24	22.98
Band2	5MHz	QPSK	18900	12RB#0	21.96
Band2	5MHz	QPSK	18900	12RB#6	21.96
Band2	5MHz	QPSK	18900	12RB#13	21.96
Band2	5MHz	QPSK	18900	25RB#0	22.00
Band2	5MHz	QPSK	19175	1RB#0	22.70
Band2	5MHz	QPSK	19175	1RB#12	22.70
Band2	5MHz	QPSK	19175	1RB#24	22.69
Band2	5MHz	QPSK	19175	12RB#0	21.77
Band2	5MHz	QPSK	19175	12RB#6	21.77
Band2	5MHz	QPSK	19175	12RB#13	21.68
Band2	5MHz	QPSK	19175	25RB#0	21.74
Band2	5MHz	16QAM	18625	1RB#0	22.20
Band2	5MHz	16QAM	18625	1RB#12	22.15
Band2	5MHz	16QAM	18625	1RB#24	22.31
Band2	5MHz	16QAM	18625	12RB#0	20.99
Band2	5MHz	16QAM	18625	12RB#6	21.14

Band2	5MHz	16QAM	18625	12RB#13	21.04
Band2	5MHz	16QAM	18625	25RB#0	20.98
Band2	5MHz	16QAM	18900	1RB#0	22.21
Band2	5MHz	16QAM	18900	1RB#12	22.03
Band2	5MHz	16QAM	18900	1RB#24	22.33
Band2	5MHz	16QAM	18900	12RB#0	20.99
Band2	5MHz	16QAM	18900	12RB#6	20.94
Band2	5MHz	16QAM	18900	12RB#13	21.07
Band2	5MHz	16QAM	18900	25RB#0	21.02
Band2	5MHz	16QAM	19175	1RB#0	21.93
Band2	5MHz	16QAM	19175	1RB#12	21.72
Band2	5MHz	16QAM	19175	1RB#24	21.63
Band2	5MHz	16QAM	19175	12RB#0	20.85
Band2	5MHz	16QAM	19175	12RB#6	20.83
Band2	5MHz	16QAM	19175	12RB#13	20.71
Band2	5MHz	16QAM	19175	25RB#0	20.81
Band2	10MHz	QPSK	18650	1RB#0	23.01
Band2	10MHz	QPSK	18650	1RB#24	23.04
Band2	10MHz	QPSK	18650	1RB#49	23.00
Band2	10MHz	QPSK	18650	25RB#0	21.93
Band2	10MHz	QPSK	18650	25RB#12	21.91
Band2	10MHz	QPSK	18650	25RB#25	21.89
Band2	10MHz	QPSK	18650	50RB#0	21.94
Band2	10MHz	QPSK	18900	1RB#0	22.86
Band2	10MHz	QPSK	18900	1RB#24	22.92
Band2	10MHz	QPSK	18900	1RB#49	22.94
Band2	10MHz	QPSK	18900	25RB#0	21.88
Band2	10MHz	QPSK	18900	25RB#12	21.87
Band2	10MHz	QPSK	18900	25RB#25	21.95
Band2	10MHz	QPSK	18900	50RB#0	21.75
Band2	10MHz	QPSK	19150	1RB#0	22.72
Band2	10MHz	QPSK	19150	1RB#24	22.77
Band2	10MHz	QPSK	19150	1RB#49	22.62
Band2	10MHz	QPSK	19150	25RB#0	21.67
Band2	10MHz	QPSK	19150	25RB#12	21.67
Band2	10MHz	QPSK	19150	25RB#25	21.67
Band2	10MHz	QPSK	19150	50RB#0	21.74
Band2	10MHz	16QAM	18650	1RB#0	22.06
Band2	10MHz	16QAM	18650	1RB#24	22.10
Band2	10MHz	16QAM	18650	1RB#49	21.64
Band2	10MHz	16QAM	18650	25RB#0	20.96
Band2	10MHz	16QAM	18650	25RB#12	20.95
Band2	10MHz	16QAM	18650	25RB#25	20.95
Band2	10MHz	16QAM	18650	50RB#0	21.01
Band2	10MHz	16QAM	18900	1RB#0	21.66
Band2	10MHz	16QAM	18900	1RB#24	21.92

Band2	10MHz	16QAM	18900	1RB#49	21.82
Band2	10MHz	16QAM	18900	25RB#0	20.92
Band2	10MHz	16QAM	18900	25RB#12	20.85
Band2	10MHz	16QAM	18900	25RB#25	20.90
Band2	10MHz	16QAM	18900	50RB#0	20.82
Band2	10MHz	16QAM	19150	1RB#0	21.76
Band2	10MHz	16QAM	19150	1RB#24	21.91
Band2	10MHz	16QAM	19150	1RB#49	21.69
Band2	10MHz	16QAM	19150	25RB#0	20.67
Band2	10MHz	16QAM	19150	25RB#12	20.77
Band2	10MHz	16QAM	19150	25RB#25	20.79
Band2	10MHz	16QAM	19150	50RB#0	20.72
Band2	15MHz	QPSK	18675	1RB#0	23.01
Band2	15MHz	QPSK	18675	1RB#38	23.13
Band2	15MHz	QPSK	18675	1RB#74	23.16
Band2	15MHz	QPSK	18675	38RB#0	22.14
Band2	15MHz	QPSK	18675	38RB#18	22.11
Band2	15MHz	QPSK	18675	38RB#37	21.93
Band2	15MHz	QPSK	18675	75RB#0	22.08
Band2	15MHz	QPSK	18900	1RB#0	23.03
Band2	15MHz	QPSK	18900	1RB#38	22.33
Band2	15MHz	QPSK	18900	1RB#74	22.32
Band2	15MHz	QPSK	18900	38RB#0	21.37
Band2	15MHz	QPSK	18900	38RB#18	21.57
Band2	15MHz	QPSK	18900	38RB#37	21.86
Band2	15MHz	QPSK	18900	75RB#0	21.93
Band2	15MHz	QPSK	19125	1RB#0	23.12
Band2	15MHz	QPSK	19125	1RB#38	22.70
Band2	15MHz	QPSK	19125	1RB#74	22.51
Band2	15MHz	QPSK	19125	38RB#0	21.94
Band2	15MHz	QPSK	19125	38RB#18	21.75
Band2	15MHz	QPSK	19125	38RB#37	21.91
Band2	15MHz	QPSK	19125	75RB#0	21.93
Band2	15MHz	16QAM	18675	1RB#0	22.23
Band2	15MHz	16QAM	18675	1RB#38	21.88
Band2	15MHz	16QAM	18675	1RB#74	21.93
Band2	15MHz	16QAM	18675	38RB#0	21.90
Band2	15MHz	16QAM	18675	38RB#18	21.96
Band2	15MHz	16QAM	18675	38RB#37	22.06
Band2	15MHz	16QAM	18675	75RB#0	20.88
Band2	15MHz	16QAM	18900	1RB#0	21.45
Band2	15MHz	16QAM	18900	1RB#38	21.33
Band2	15MHz	16QAM	18900	1RB#74	21.36
Band2	15MHz	16QAM	18900	38RB#0	21.72
Band2	15MHz	16QAM	18900	38RB#18	21.86
Band2	15MHz	16QAM	18900	38RB#37	21.92

Band2	15MHz	16QAM	18900	75RB#0	20.90
Band2	15MHz	16QAM	19125	1RB#0	21.98
Band2	15MHz	16QAM	19125	1RB#38	22.01
Band2	15MHz	16QAM	19125	1RB#74	21.82
Band2	15MHz	16QAM	19125	38RB#0	22.12
Band2	15MHz	16QAM	19125	38RB#18	21.92
Band2	15MHz	16QAM	19125	38RB#37	21.74
Band2	15MHz	16QAM	19125	75RB#0	20.92
Band2	20MHz	QPSK	18700	1RB#0	22.98
Band2	20MHz	QPSK	18700	1RB#49	23.28
Band2	20MHz	QPSK	18700	1RB#99	23.09
Band2	20MHz	QPSK	18700	50RB#0	22.17
Band2	20MHz	QPSK	18700	50RB#25	22.07
Band2	20MHz	QPSK	18700	50RB#50	22.08
Band2	20MHz	QPSK	18700	100RB#0	21.98
Band2	20MHz	QPSK	18900	1RB#0	23.03
Band2	20MHz	QPSK	18900	1RB#49	23.21
Band2	20MHz	QPSK	18900	1RB#99	23.17
Band2	20MHz	QPSK	18900	50RB#0	22.21
Band2	20MHz	QPSK	18900	50RB#25	22.20
Band2	20MHz	QPSK	18900	50RB#50	22.18
Band2	20MHz	QPSK	18900	100RB#0	22.20
Band2	20MHz	QPSK	19100	1RB#0	23.29
Band2	20MHz	QPSK	19100	1RB#49	23.14
Band2	20MHz	QPSK	19100	1RB#99	22.80
Band2	20MHz	QPSK	19100	50RB#0	22.10
Band2	20MHz	QPSK	19100	50RB#25	22.10
Band2	20MHz	QPSK	19100	50RB#50	22.03
Band2	20MHz	QPSK	19100	100RB#0	22.06
Band2	20MHz	16QAM	18700	1RB#0	22.17
Band2	20MHz	16QAM	18700	1RB#49	23.03
Band2	20MHz	16QAM	18700	1RB#99	21.87
Band2	20MHz	16QAM	18700	50RB#0	21.13
Band2	20MHz	16QAM	18700	50RB#25	21.06
Band2	20MHz	16QAM	18700	50RB#50	20.99
Band2	20MHz	16QAM	18700	100RB#0	21.00
Band2	20MHz	16QAM	18900	1RB#0	22.23
Band2	20MHz	16QAM	18900	1RB#49	22.89
Band2	20MHz	16QAM	18900	1RB#99	22.26
Band2	20MHz	16QAM	18900	50RB#0	21.16
Band2	20MHz	16QAM	18900	50RB#25	21.29
Band2	20MHz	16QAM	18900	50RB#50	21.23
Band2	20MHz	16QAM	18900	100RB#0	21.26
Band2	20MHz	16QAM	19100	1RB#0	22.93
Band2	20MHz	16QAM	19100	1RB#49	21.92
Band2	20MHz	16QAM	19100	1RB#99	22.30

Band2	20MHz	16QAM	19100	50RB#0	21.10
Band2	20MHz	16QAM	19100	50RB#25	21.22
Band2	20MHz	16QAM	19100	50RB#50	20.95
Band2	20MHz	16QAM	19100	100RB#0	21.13
Band4	1.4MHz	QPSK	19957	1RB#0	21.94
Band4	1.4MHz	QPSK	19957	1RB#3	22.03
Band4	1.4MHz	QPSK	19957	1RB#5	21.89
Band4	1.4MHz	QPSK	19957	3RB#0	21.97
Band4	1.4MHz	QPSK	19957	3RB#2	21.92
Band4	1.4MHz	QPSK	19957	3RB#3	21.93
Band4	1.4MHz	QPSK	19957	6RB#0	21.02
Band4	1.4MHz	QPSK	20175	1RB#0	22.04
Band4	1.4MHz	QPSK	20175	1RB#3	22.24
Band4	1.4MHz	QPSK	20175	1RB#5	22.17
Band4	1.4MHz	QPSK	20175	3RB#0	22.12
Band4	1.4MHz	QPSK	20175	3RB#2	22.14
Band4	1.4MHz	QPSK	20175	3RB#3	22.18
Band4	1.4MHz	QPSK	20175	6RB#0	21.05
Band4	1.4MHz	QPSK	20393	1RB#0	23.09
Band4	1.4MHz	QPSK	20393	1RB#3	23.30
Band4	1.4MHz	QPSK	20393	1RB#5	23.17
Band4	1.4MHz	QPSK	20393	3RB#0	23.15
Band4	1.4MHz	QPSK	20393	3RB#2	23.17
Band4	1.4MHz	QPSK	20393	3RB#3	23.14
Band4	1.4MHz	QPSK	20393	6RB#0	22.11
Band4	1.4MHz	16QAM	19957	1RB#0	20.91
Band4	1.4MHz	16QAM	19957	1RB#3	20.90
Band4	1.4MHz	16QAM	19957	1RB#5	20.72
Band4	1.4MHz	16QAM	19957	3RB#0	20.96
Band4	1.4MHz	16QAM	19957	3RB#2	20.92
Band4	1.4MHz	16QAM	19957	3RB#3	20.93
Band4	1.4MHz	16QAM	19957	6RB#0	20.09
Band4	1.4MHz	16QAM	20175	1RB#0	21.10
Band4	1.4MHz	16QAM	20175	1RB#3	21.32
Band4	1.4MHz	16QAM	20175	1RB#5	21.25
Band4	1.4MHz	16QAM	20175	3RB#0	20.99
Band4	1.4MHz	16QAM	20175	3RB#2	20.97
Band4	1.4MHz	16QAM	20175	3RB#3	21.19
Band4	1.4MHz	16QAM	20175	6RB#0	20.11
Band4	1.4MHz	16QAM	20393	1RB#0	22.31
Band4	1.4MHz	16QAM	20393	1RB#3	22.55
Band4	1.4MHz	16QAM	20393	1RB#5	22.31
Band4	1.4MHz	16QAM	20393	3RB#0	22.16
Band4	1.4MHz	16QAM	20393	3RB#2	22.17
Band4	1.4MHz	16QAM	20393	3RB#3	22.19
Band4	1.4MHz	16QAM	20393	6RB#0	21.14

Band4	3MHz	QPSK	19965	1RB#0	22.05
Band4	3MHz	QPSK	19965	1RB#7	22.22
Band4	3MHz	QPSK	19965	1RB#14	22.22
Band4	3MHz	QPSK	19965	8RB#0	21.30
Band4	3MHz	QPSK	19965	8RB#4	21.25
Band4	3MHz	QPSK	19965	8RB#7	21.23
Band4	3MHz	QPSK	19965	15RB#0	21.11
Band4	3MHz	QPSK	20175	1RB#0	22.21
Band4	3MHz	QPSK	20175	1RB#7	22.28
Band4	3MHz	QPSK	20175	1RB#14	22.30
Band4	3MHz	QPSK	20175	8RB#0	21.16
Band4	3MHz	QPSK	20175	8RB#4	21.09
Band4	3MHz	QPSK	20175	8RB#7	21.17
Band4	3MHz	QPSK	20175	15RB#0	20.99
Band4	3MHz	QPSK	20385	1RB#0	22.16
Band4	3MHz	QPSK	20385	1RB#7	22.23
Band4	3MHz	QPSK	20385	1RB#14	22.22
Band4	3MHz	QPSK	20385	8RB#0	21.18
Band4	3MHz	QPSK	20385	8RB#4	21.09
Band4	3MHz	QPSK	20385	8RB#7	21.21
Band4	3MHz	QPSK	20385	15RB#0	21.12
Band4	3MHz	16QAM	19965	1RB#0	21.26
Band4	3MHz	16QAM	19965	1RB#7	21.10
Band4	3MHz	16QAM	19965	1RB#14	21.49
Band4	3MHz	16QAM	19965	8RB#0	20.24
Band4	3MHz	16QAM	19965	8RB#4	20.19
Band4	3MHz	16QAM	19965	8RB#7	20.30
Band4	3MHz	16QAM	19965	15RB#0	20.12
Band4	3MHz	16QAM	20175	1RB#0	21.40
Band4	3MHz	16QAM	20175	1RB#7	21.51
Band4	3MHz	16QAM	20175	1RB#14	21.50
Band4	3MHz	16QAM	20175	8RB#0	20.13
Band4	3MHz	16QAM	20175	8RB#4	20.15
Band4	3MHz	16QAM	20175	8RB#7	20.07
Band4	3MHz	16QAM	20175	15RB#0	20.07
Band4	3MHz	16QAM	20385	1RB#0	21.19
Band4	3MHz	16QAM	20385	1RB#7	20.89
Band4	3MHz	16QAM	20385	1RB#14	21.19
Band4	3MHz	16QAM	20385	8RB#0	20.15
Band4	3MHz	16QAM	20385	8RB#4	20.20
Band4	3MHz	16QAM	20385	8RB#7	20.21
Band4	3MHz	16QAM	20385	15RB#0	20.29
Band4	5MHz	QPSK	19975	1RB#0	22.10
Band4	5MHz	QPSK	19975	1RB#12	22.02
Band4	5MHz	QPSK	19975	1RB#24	22.10
Band4	5MHz	QPSK	19975	12RB#0	21.11

Band4	5MHz	QPSK	19975	12RB#6	21.10
Band4	5MHz	QPSK	19975	12RB#13	21.06
Band4	5MHz	QPSK	19975	25RB#0	21.09
Band4	5MHz	QPSK	20175	1RB#0	22.04
Band4	5MHz	QPSK	20175	1RB#12	22.13
Band4	5MHz	QPSK	20175	1RB#24	22.05
Band4	5MHz	QPSK	20175	12RB#0	20.98
Band4	5MHz	QPSK	20175	12RB#6	20.97
Band4	5MHz	QPSK	20175	12RB#13	21.04
Band4	5MHz	QPSK	20175	25RB#0	21.03
Band4	5MHz	QPSK	20375	1RB#0	22.16
Band4	5MHz	QPSK	20375	1RB#12	22.22
Band4	5MHz	QPSK	20375	1RB#24	22.23
Band4	5MHz	QPSK	20375	12RB#0	21.14
Band4	5MHz	QPSK	20375	12RB#6	21.15
Band4	5MHz	QPSK	20375	12RB#13	21.24
Band4	5MHz	QPSK	20375	25RB#0	21.15
Band4	5MHz	16QAM	19975	1RB#0	21.37
Band4	5MHz	16QAM	19975	1RB#12	21.17
Band4	5MHz	16QAM	19975	1RB#24	21.17
Band4	5MHz	16QAM	19975	12RB#0	20.15
Band4	5MHz	16QAM	19975	12RB#6	20.19
Band4	5MHz	16QAM	19975	12RB#13	20.10
Band4	5MHz	16QAM	19975	25RB#0	20.08
Band4	5MHz	16QAM	20175	1RB#0	21.05
Band4	5MHz	16QAM	20175	1RB#12	21.18
Band4	5MHz	16QAM	20175	1RB#24	21.04
Band4	5MHz	16QAM	20175	12RB#0	19.98
Band4	5MHz	16QAM	20175	12RB#6	20.05
Band4	5MHz	16QAM	20175	12RB#13	20.07
Band4	5MHz	16QAM	20175	25RB#0	20.04
Band4	5MHz	16QAM	20375	1RB#0	21.29
Band4	5MHz	16QAM	20375	1RB#12	21.39
Band4	5MHz	16QAM	20375	1RB#24	21.57
Band4	5MHz	16QAM	20375	12RB#0	20.24
Band4	5MHz	16QAM	20375	12RB#6	20.23
Band4	5MHz	16QAM	20375	12RB#13	20.29
Band4	5MHz	16QAM	20375	25RB#0	20.15
Band4	10MHz	QPSK	20000	1RB#0	22.23
Band4	10MHz	QPSK	20000	1RB#24	22.08
Band4	10MHz	QPSK	20000	1RB#49	21.93
Band4	10MHz	QPSK	20000	25RB#0	21.19
Band4	10MHz	QPSK	20000	25RB#12	21.10
Band4	10MHz	QPSK	20000	25RB#25	20.92
Band4	10MHz	QPSK	20000	50RB#0	20.95
Band4	10MHz	QPSK	20175	1RB#0	22.13

Band4	10MHz	QPSK	20175	1RB#24	22.48
Band4	10MHz	QPSK	20175	1RB#49	22.65
Band4	10MHz	QPSK	20175	25RB#0	21.14
Band4	10MHz	QPSK	20175	25RB#12	21.14
Band4	10MHz	QPSK	20175	25RB#25	21.48
Band4	10MHz	QPSK	20175	50RB#0	21.25
Band4	10MHz	QPSK	20350	1RB#0	23.11
Band4	10MHz	QPSK	20350	1RB#24	23.28
Band4	10MHz	QPSK	20350	1RB#49	23.33
Band4	10MHz	QPSK	20350	25RB#0	22.18
Band4	10MHz	QPSK	20350	25RB#12	22.19
Band4	10MHz	QPSK	20350	25RB#25	22.18
Band4	10MHz	QPSK	20350	50RB#0	22.17
Band4	10MHz	16QAM	20000	1RB#0	21.20
Band4	10MHz	16QAM	20000	1RB#24	21.05
Band4	10MHz	16QAM	20000	1RB#49	20.76
Band4	10MHz	16QAM	20000	25RB#0	20.17
Band4	10MHz	16QAM	20000	25RB#12	20.18
Band4	10MHz	16QAM	20000	25RB#25	19.96
Band4	10MHz	16QAM	20000	50RB#0	20.00
Band4	10MHz	16QAM	20175	1RB#0	21.18
Band4	10MHz	16QAM	20175	1RB#24	21.24
Band4	10MHz	16QAM	20175	1RB#49	21.53
Band4	10MHz	16QAM	20175	25RB#0	20.20
Band4	10MHz	16QAM	20175	25RB#12	20.22
Band4	10MHz	16QAM	20175	25RB#25	20.54
Band4	10MHz	16QAM	20175	50RB#0	20.32
Band4	10MHz	16QAM	20350	1RB#0	22.01
Band4	10MHz	16QAM	20350	1RB#24	22.54
Band4	10MHz	16QAM	20350	1RB#49	22.15
Band4	10MHz	16QAM	20350	25RB#0	21.19
Band4	10MHz	16QAM	20350	25RB#12	21.27
Band4	10MHz	16QAM	20350	25RB#25	21.28
Band4	10MHz	16QAM	20350	50RB#0	21.25
Band4	15MHz	QPSK	20025	1RB#0	22.14
Band4	15MHz	QPSK	20025	1RB#38	22.11
Band4	15MHz	QPSK	20025	1RB#74	22.12
Band4	15MHz	QPSK	20025	38RB#0	21.10
Band4	15MHz	QPSK	20025	38RB#18	21.05
Band4	15MHz	QPSK	20025	38RB#37	21.31
Band4	15MHz	QPSK	20025	75RB#0	21.13
Band4	15MHz	QPSK	20175	1RB#0	21.15
Band4	15MHz	QPSK	20175	1RB#38	21.54
Band4	15MHz	QPSK	20175	1RB#74	21.48
Band4	15MHz	QPSK	20175	38RB#0	20.51
Band4	15MHz	QPSK	20175	38RB#18	20.64

Band4	15MHz	QPSK	20175	38RB#37	21.35
Band4	15MHz	QPSK	20175	75RB#0	21.33
Band4	15MHz	QPSK	20325	1RB#0	22.24
Band4	15MHz	QPSK	20325	1RB#38	22.48
Band4	15MHz	QPSK	20325	1RB#74	22.27
Band4	15MHz	QPSK	20325	38RB#0	21.33
Band4	15MHz	QPSK	20325	38RB#18	21.62
Band4	15MHz	QPSK	20325	38RB#37	20.69
Band4	15MHz	QPSK	20325	75RB#0	21.46
Band4	15MHz	16QAM	20025	1RB#0	21.31
Band4	15MHz	16QAM	20025	1RB#38	20.94
Band4	15MHz	16QAM	20025	1RB#74	21.33
Band4	15MHz	16QAM	20025	38RB#0	21.02
Band4	15MHz	16QAM	20025	38RB#18	21.17
Band4	15MHz	16QAM	20025	38RB#37	21.24
Band4	15MHz	16QAM	20025	75RB#0	19.39
Band4	15MHz	16QAM	20175	1RB#0	20.45
Band4	15MHz	16QAM	20175	1RB#38	20.41
Band4	15MHz	16QAM	20175	1RB#74	20.44
Band4	15MHz	16QAM	20175	38RB#0	20.41
Band4	15MHz	16QAM	20175	38RB#18	21.46
Band4	15MHz	16QAM	20175	38RB#37	21.35
Band4	15MHz	16QAM	20175	75RB#0	20.45
Band4	15MHz	16QAM	20325	1RB#0	21.50
Band4	15MHz	16QAM	20325	1RB#38	21.48
Band4	15MHz	16QAM	20325	1RB#74	21.41
Band4	15MHz	16QAM	20325	38RB#0	21.48
Band4	15MHz	16QAM	20325	38RB#18	20.88
Band4	15MHz	16QAM	20325	38RB#37	20.58
Band4	15MHz	16QAM	20325	75RB#0	20.53
Band4	20MHz	QPSK	20050	1RB#0	22.47
Band4	20MHz	QPSK	20050	1RB#49	22.61
Band4	20MHz	QPSK	20050	1RB#99	22.34
Band4	20MHz	QPSK	20050	50RB#0	21.23
Band4	20MHz	QPSK	20050	50RB#25	21.28
Band4	20MHz	QPSK	20050	50RB#50	21.31
Band4	20MHz	QPSK	20050	100RB#0	21.22
Band4	20MHz	QPSK	20175	1RB#0	22.47
Band4	20MHz	QPSK	20175	1RB#49	22.83
Band4	20MHz	QPSK	20175	1RB#99	22.31
Band4	20MHz	QPSK	20175	50RB#0	21.39
Band4	20MHz	QPSK	20175	50RB#25	21.40
Band4	20MHz	QPSK	20175	50RB#50	21.28
Band4	20MHz	QPSK	20175	100RB#0	21.44
Band4	20MHz	QPSK	20300	1RB#0	22.35
Band4	20MHz	QPSK	20300	1RB#49	22.62

Band4	20MHz	QPSK	20300	1RB#99	22.22
Band4	20MHz	QPSK	20300	50RB#0	21.50
Band4	20MHz	QPSK	20300	50RB#25	21.49
Band4	20MHz	QPSK	20300	50RB#50	21.40
Band4	20MHz	QPSK	20300	100RB#0	21.30
Band4	20MHz	16QAM	20050	1RB#0	21.09
Band4	20MHz	16QAM	20050	1RB#49	21.72
Band4	20MHz	16QAM	20050	1RB#99	21.36
Band4	20MHz	16QAM	20050	50RB#0	20.31
Band4	20MHz	16QAM	20050	50RB#25	20.30
Band4	20MHz	16QAM	20050	50RB#50	20.36
Band4	20MHz	16QAM	20050	100RB#0	20.31
Band4	20MHz	16QAM	20175	1RB#0	21.59
Band4	20MHz	16QAM	20175	1RB#49	21.73
Band4	20MHz	16QAM	20175	1RB#99	22.08
Band4	20MHz	16QAM	20175	50RB#0	20.41
Band4	20MHz	16QAM	20175	50RB#25	20.32
Band4	20MHz	16QAM	20175	50RB#50	20.35
Band4	20MHz	16QAM	20175	100RB#0	20.41
Band4	20MHz	16QAM	20300	1RB#0	21.65
Band4	20MHz	16QAM	20300	1RB#49	21.48
Band4	20MHz	16QAM	20300	1RB#99	21.05
Band4	20MHz	16QAM	20300	50RB#0	20.43
Band4	20MHz	16QAM	20300	50RB#25	20.37
Band4	20MHz	16QAM	20300	50RB#50	20.54
Band4	20MHz	16QAM	20300	100RB#0	20.31
Band66	1.4MHz	QPSK	131979	1RB#0	22.62
Band66	1.4MHz	QPSK	131979	1RB#3	22.62
Band66	1.4MHz	QPSK	131979	1RB#5	22.46
Band66	1.4MHz	QPSK	131979	3RB#0	22.56
Band66	1.4MHz	QPSK	131979	3RB#2	22.53
Band66	1.4MHz	QPSK	131979	3RB#3	22.53
Band66	1.4MHz	QPSK	131979	6RB#0	21.59
Band66	1.4MHz	QPSK	132322	1RB#0	22.92
Band66	1.4MHz	QPSK	132322	1RB#3	22.93
Band66	1.4MHz	QPSK	132322	1RB#5	22.74
Band66	1.4MHz	QPSK	132322	3RB#0	22.82
Band66	1.4MHz	QPSK	132322	3RB#2	22.81
Band66	1.4MHz	QPSK	132322	3RB#3	22.78
Band66	1.4MHz	QPSK	132322	6RB#0	21.92
Band66	1.4MHz	QPSK	132665	1RB#0	22.68
Band66	1.4MHz	QPSK	132665	1RB#3	22.82
Band66	1.4MHz	QPSK	132665	1RB#5	21.93
Band66	1.4MHz	QPSK	132665	3RB#0	22.69
Band66	1.4MHz	QPSK	132665	3RB#2	22.65
Band66	1.4MHz	QPSK	132665	3RB#3	22.79

Band66	1.4MHz	QPSK	132665	6RB#0	21.76
Band66	1.4MHz	16QAM	131979	1RB#0	21.48
Band66	1.4MHz	16QAM	131979	1RB#3	21.68
Band66	1.4MHz	16QAM	131979	1RB#5	21.48
Band66	1.4MHz	16QAM	131979	3RB#0	21.47
Band66	1.4MHz	16QAM	131979	3RB#2	21.56
Band66	1.4MHz	16QAM	131979	3RB#3	21.56
Band66	1.4MHz	16QAM	131979	6RB#0	20.55
Band66	1.4MHz	16QAM	132322	1RB#0	21.75
Band66	1.4MHz	16QAM	132322	1RB#3	21.92
Band66	1.4MHz	16QAM	132322	1RB#5	21.83
Band66	1.4MHz	16QAM	132322	3RB#0	21.94
Band66	1.4MHz	16QAM	132322	3RB#2	21.91
Band66	1.4MHz	16QAM	132322	3RB#3	21.82
Band66	1.4MHz	16QAM	132322	6RB#0	20.99
Band66	1.4MHz	16QAM	132665	1RB#0	21.93
Band66	1.4MHz	16QAM	132665	1RB#3	21.23
Band66	1.4MHz	16QAM	132665	1RB#5	21.64
Band66	1.4MHz	16QAM	132665	3RB#0	21.65
Band66	1.4MHz	16QAM	132665	3RB#2	21.89
Band66	1.4MHz	16QAM	132665	3RB#3	21.61
Band66	1.4MHz	16QAM	132665	6RB#0	20.86
Band66	3MHz	QPSK	131987	1RB#0	22.17
Band66	3MHz	QPSK	131987	1RB#8	22.22
Band66	3MHz	QPSK	131987	1RB#14	22.61
Band66	3MHz	QPSK	131987	8RB#0	21.58
Band66	3MHz	QPSK	131987	8RB#4	21.58
Band66	3MHz	QPSK	131987	8RB#7	21.63
Band66	3MHz	QPSK	131987	15RB#0	21.55
Band66	3MHz	QPSK	132322	1RB#0	22.85
Band66	3MHz	QPSK	132322	1RB#8	22.78
Band66	3MHz	QPSK	132322	1RB#14	22.63
Band66	3MHz	QPSK	132322	8RB#0	21.74
Band66	3MHz	QPSK	132322	8RB#4	21.72
Band66	3MHz	QPSK	132322	8RB#7	21.66
Band66	3MHz	QPSK	132322	15RB#0	21.68
Band66	3MHz	QPSK	132657	1RB#0	22.79
Band66	3MHz	QPSK	132657	1RB#8	22.70
Band66	3MHz	QPSK	132657	1RB#14	22.76
Band66	3MHz	QPSK	132657	8RB#0	21.87
Band66	3MHz	QPSK	132657	8RB#4	21.88
Band66	3MHz	QPSK	132657	8RB#7	21.88
Band66	3MHz	QPSK	132657	15RB#0	21.86
Band66	3MHz	16QAM	131987	1RB#0	21.25
Band66	3MHz	16QAM	131987	1RB#8	21.26
Band66	3MHz	16QAM	131987	1RB#14	21.62

Band66	3MHz	16QAM	131987	8RB#0	20.64
Band66	3MHz	16QAM	131987	8RB#4	20.52
Band66	3MHz	16QAM	131987	8RB#7	20.61
Band66	3MHz	16QAM	131987	15RB#0	20.58
Band66	3MHz	16QAM	132322	1RB#0	21.92
Band66	3MHz	16QAM	132322	1RB#8	21.84
Band66	3MHz	16QAM	132322	1RB#14	21.69
Band66	3MHz	16QAM	132322	8RB#0	20.70
Band66	3MHz	16QAM	132322	8RB#4	20.75
Band66	3MHz	16QAM	132322	8RB#7	20.64
Band66	3MHz	16QAM	132322	15RB#0	20.68
Band66	3MHz	16QAM	132657	1RB#0	21.78
Band66	3MHz	16QAM	132657	1RB#8	21.85
Band66	3MHz	16QAM	132657	1RB#14	21.80
Band66	3MHz	16QAM	132657	8RB#0	20.95
Band66	3MHz	16QAM	132657	8RB#4	20.97
Band66	3MHz	16QAM	132657	8RB#7	20.84
Band66	3MHz	16QAM	132657	15RB#0	20.85
Band66	5MHz	QPSK	131997	1RB#0	22.42
Band66	5MHz	QPSK	131997	1RB#12	22.61
Band66	5MHz	QPSK	131997	1RB#24	22.60
Band66	5MHz	QPSK	131997	12RB#0	21.69
Band66	5MHz	QPSK	131997	12RB#6	21.68
Band66	5MHz	QPSK	131997	12RB#13	21.60
Band66	5MHz	QPSK	131997	25RB#0	21.74
Band66	5MHz	QPSK	132322	1RB#0	22.81
Band66	5MHz	QPSK	132322	1RB#12	22.85
Band66	5MHz	QPSK	132322	1RB#24	22.54
Band66	5MHz	QPSK	132322	12RB#0	21.87
Band66	5MHz	QPSK	132322	12RB#6	21.89
Band66	5MHz	QPSK	132322	12RB#13	21.66
Band66	5MHz	QPSK	132322	25RB#0	21.63
Band66	5MHz	QPSK	132647	1RB#0	22.83
Band66	5MHz	QPSK	132647	1RB#12	22.83
Band66	5MHz	QPSK	132647	1RB#24	22.72
Band66	5MHz	QPSK	132647	12RB#0	21.94
Band66	5MHz	QPSK	132647	12RB#6	21.94
Band66	5MHz	QPSK	132647	12RB#13	21.84
Band66	5MHz	QPSK	132647	25RB#0	21.87
Band66	5MHz	16QAM	131997	1RB#0	21.33
Band66	5MHz	16QAM	131997	1RB#12	21.75
Band66	5MHz	16QAM	131997	1RB#24	21.59
Band66	5MHz	16QAM	131997	12RB#0	20.52
Band66	5MHz	16QAM	131997	12RB#6	20.68
Band66	5MHz	16QAM	131997	12RB#13	20.58
Band66	5MHz	16QAM	131997	25RB#0	20.63

Band66	5MHz	16QAM	132322	1RB#0	22.10
Band66	5MHz	16QAM	132322	1RB#12	21.90
Band66	5MHz	16QAM	132322	1RB#24	21.52
Band66	5MHz	16QAM	132322	12RB#0	20.94
Band66	5MHz	16QAM	132322	12RB#6	20.80
Band66	5MHz	16QAM	132322	12RB#13	20.72
Band66	5MHz	16QAM	132322	25RB#0	20.68
Band66	5MHz	16QAM	132647	1RB#0	21.98
Band66	5MHz	16QAM	132647	1RB#12	21.93
Band66	5MHz	16QAM	132647	1RB#24	21.77
Band66	5MHz	16QAM	132647	12RB#0	20.93
Band66	5MHz	16QAM	132647	12RB#6	20.89
Band66	5MHz	16QAM	132647	12RB#13	20.97
Band66	5MHz	16QAM	132647	25RB#0	20.89
Band66	10MHz	QPSK	132022	1RB#0	22.38
Band66	10MHz	QPSK	132022	1RB#24	22.56
Band66	10MHz	QPSK	132022	1RB#49	22.40
Band66	10MHz	QPSK	132022	25RB#0	21.62
Band66	10MHz	QPSK	132022	25RB#12	21.52
Band66	10MHz	QPSK	132022	25RB#25	21.73
Band66	10MHz	QPSK	132022	50RB#0	21.69
Band66	10MHz	QPSK	132322	1RB#0	22.50
Band66	10MHz	QPSK	132322	1RB#24	22.58
Band66	10MHz	QPSK	132322	1RB#49	22.67
Band66	10MHz	QPSK	132322	25RB#0	21.85
Band66	10MHz	QPSK	132322	25RB#12	21.87
Band66	10MHz	QPSK	132322	25RB#25	21.66
Band66	10MHz	QPSK	132322	50RB#0	21.77
Band66	10MHz	QPSK	132622	1RB#0	22.83
Band66	10MHz	QPSK	132622	1RB#24	23.06
Band66	10MHz	QPSK	132622	1RB#49	22.80
Band66	10MHz	QPSK	132622	25RB#0	21.89
Band66	10MHz	QPSK	132622	25RB#12	21.79
Band66	10MHz	QPSK	132622	25RB#25	21.82
Band66	10MHz	QPSK	132622	50RB#0	21.85
Band66	10MHz	16QAM	132022	1RB#0	21.41
Band66	10MHz	16QAM	132022	1RB#24	21.96
Band66	10MHz	16QAM	132022	1RB#49	21.77
Band66	10MHz	16QAM	132022	25RB#0	20.57
Band66	10MHz	16QAM	132022	25RB#12	20.39
Band66	10MHz	16QAM	132022	25RB#25	20.69
Band66	10MHz	16QAM	132022	50RB#0	20.60
Band66	10MHz	16QAM	132322	1RB#0	21.64
Band66	10MHz	16QAM	132322	1RB#24	21.79
Band66	10MHz	16QAM	132322	1RB#49	21.76
Band66	10MHz	16QAM	132322	25RB#0	20.78

Band66	10MHz	16QAM	132322	25RB#12	20.76
Band66	10MHz	16QAM	132322	25RB#25	20.63
Band66	10MHz	16QAM	132322	50RB#0	20.66
Band66	10MHz	16QAM	132622	1RB#0	22.01
Band66	10MHz	16QAM	132622	1RB#24	22.24
Band66	10MHz	16QAM	132622	1RB#49	21.91
Band66	10MHz	16QAM	132622	25RB#0	20.89
Band66	10MHz	16QAM	132622	25RB#12	20.86
Band66	10MHz	16QAM	132622	25RB#25	20.79
Band66	10MHz	16QAM	132622	50RB#0	20.78
Band66	15MHz	QPSK	132047	1RB#0	22.49
Band66	15MHz	QPSK	132047	1RB#38	22.59
Band66	15MHz	QPSK	132047	1RB#74	22.67
Band66	15MHz	QPSK	132047	38RB#0	21.40
Band66	15MHz	QPSK	132047	38RB#18	21.77
Band66	15MHz	QPSK	132047	38RB#37	21.46
Band66	15MHz	QPSK	132047	75RB#0	21.61
Band66	15MHz	QPSK	132322	1RB#0	22.60
Band66	15MHz	QPSK	132322	1RB#38	22.73
Band66	15MHz	QPSK	132322	1RB#74	22.62
Band66	15MHz	QPSK	132322	38RB#0	21.76
Band66	15MHz	QPSK	132322	38RB#18	21.78
Band66	15MHz	QPSK	132322	38RB#37	21.65
Band66	15MHz	QPSK	132322	75RB#0	21.77
Band66	15MHz	QPSK	132597	1RB#0	22.55
Band66	15MHz	QPSK	132597	1RB#38	22.63
Band66	15MHz	QPSK	132597	1RB#74	22.58
Band66	15MHz	QPSK	132597	38RB#0	21.81
Band66	15MHz	QPSK	132597	38RB#18	22.40
Band66	15MHz	QPSK	132597	38RB#37	21.76
Band66	15MHz	QPSK	132597	75RB#0	21.63
Band66	15MHz	16QAM	132047	1RB#0	21.93
Band66	15MHz	16QAM	132047	1RB#38	21.71
Band66	15MHz	16QAM	132047	1RB#74	21.80
Band66	15MHz	16QAM	132047	38RB#0	21.79
Band66	15MHz	16QAM	132047	38RB#18	21.32
Band66	15MHz	16QAM	132047	38RB#37	21.59
Band66	15MHz	16QAM	132047	75RB#0	20.61
Band66	15MHz	16QAM	132322	1RB#0	21.71
Band66	15MHz	16QAM	132322	1RB#38	21.48
Band66	15MHz	16QAM	132322	1RB#74	21.68
Band66	15MHz	16QAM	132322	38RB#0	21.81
Band66	15MHz	16QAM	132322	38RB#18	21.58
Band66	15MHz	16QAM	132322	38RB#37	21.56
Band66	15MHz	16QAM	132322	75RB#0	20.77
Band66	15MHz	16QAM	132597	1RB#0	21.69

Band66	15MHz	16QAM	132597	1RB#38	21.51
Band66	15MHz	16QAM	132597	1RB#74	21.71
Band66	15MHz	16QAM	132597	38RB#0	22.05
Band66	15MHz	16QAM	132597	38RB#18	21.70
Band66	15MHz	16QAM	132597	38RB#37	21.74
Band66	15MHz	16QAM	132597	75RB#0	20.73
Band66	20MHz	QPSK	132072	1RB#0	22.85
Band66	20MHz	QPSK	132072	1RB#49	22.66
Band66	20MHz	QPSK	132072	1RB#99	22.62
Band66	20MHz	QPSK	132072	50RB#0	21.84
Band66	20MHz	QPSK	132072	50RB#25	21.75
Band66	20MHz	QPSK	132072	50RB#50	21.77
Band66	20MHz	QPSK	132072	100RB#0	21.76
Band66	20MHz	QPSK	132322	1RB#0	22.78
Band66	20MHz	QPSK	132322	1RB#49	22.96
Band66	20MHz	QPSK	132322	1RB#99	22.74
Band66	20MHz	QPSK	132322	50RB#0	21.55
Band66	20MHz	QPSK	132322	50RB#25	21.60
Band66	20MHz	QPSK	132322	50RB#50	21.40
Band66	20MHz	QPSK	132322	100RB#0	21.65
Band66	20MHz	QPSK	132572	1RB#0	22.50
Band66	20MHz	QPSK	132572	1RB#49	22.82
Band66	20MHz	QPSK	132572	1RB#99	22.53
Band66	20MHz	QPSK	132572	50RB#0	21.48
Band66	20MHz	QPSK	132572	50RB#25	21.43
Band66	20MHz	QPSK	132572	50RB#50	21.39
Band66	20MHz	QPSK	132572	100RB#0	21.63
Band66	20MHz	16QAM	132072	1RB#0	21.74
Band66	20MHz	16QAM	132072	1RB#49	22.24
Band66	20MHz	16QAM	132072	1RB#99	22.23
Band66	20MHz	16QAM	132072	50RB#0	20.81
Band66	20MHz	16QAM	132072	50RB#25	20.90
Band66	20MHz	16QAM	132072	50RB#50	20.86
Band66	20MHz	16QAM	132072	100RB#0	20.64
Band66	20MHz	16QAM	132322	1RB#0	22.00
Band66	20MHz	16QAM	132322	1RB#49	21.66
Band66	20MHz	16QAM	132322	1RB#99	21.22
Band66	20MHz	16QAM	132322	50RB#0	20.63
Band66	20MHz	16QAM	132322	50RB#25	20.54
Band66	20MHz	16QAM	132322	50RB#50	20.63
Band66	20MHz	16QAM	132322	100RB#0	20.69
Band66	20MHz	16QAM	132572	1RB#0	21.61
Band66	20MHz	16QAM	132572	1RB#49	22.36
Band66	20MHz	16QAM	132572	1RB#99	21.29
Band66	20MHz	16QAM	132572	50RB#0	20.37
Band66	20MHz	16QAM	132572	50RB#25	20.49

Band66	20MHz	16QAM	132572	50RB#50	20.49
Band66	20MHz	16QAM	132572	100RB#0	20.56

3.6.Environmental Conditions

Date of test : Mar.20, 2021 – May 6, 2021

Date of EUT Receive : Mar.01, 2021

Temperature: (22-26) °C

Relative Humidity: (44-51)%

Air Pressure: (100.7-101.9) kPa

3.7.Special Accessories

Not available for this EUT intended for grant.

3.8.Equipment Modifications

Not available for this EUT intended for grant.

4. TEST EQUIPMENT USED

Radiated spurious test equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB8501/09	EMI Test Receiver	Rohde & Schwarz	ESU40	Feb.05, 2021	1 Year
SB5472/02	Bilog Antenna	Schwarzbeck	VULB9163	Nov.15, 2020	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Dec.16, 2020	1 Year
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	Feb.05, 2021	1 Year
SB8501/14	Preamplifier	Rohde & Schwarz	SCU-03	Feb.05, 2021	1 Year
SB12724/06	Wideband Radio communication Tester	Rohde & Schwarz	CMW500	May.18, 2020	1 Year
SB8501/09	EMI Test Receiver	Rohde & Schwarz	ESU40	Feb.05, 2021	1 Year
--	Radiated Test Software	Rohde & Schwarz	EMC 32	--	--

Conducted test equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB18827	Wideband Radio communication Tester	Rohde & Schwarz	CMW500	Jan.25, 2021	1 Year
SB9721/02	Signal Analyzer	Agilent	N9020A	May.18, 2020	1 Year
SB7941/02	Signal Analyzer	Rohde & Schwarz	FSV30	May.18, 2020	1 Year
SB9721/07	DC Power Supply	Agilent	66319D	--	--
SB11818	Temperature & Humidity Test chamber	Espec	EH-010U	Mar.19, 2021	1 Year
--	Test Software	Tonscend	JS1120	--	--

5. MEASUREMENT UNCERTAINTY

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

26dB & Occupied Bandwidth: $\pm 0.39\%$

Frequency Stability: $\pm 0.42\%$

Peak to Average Ratio: ± 0.45 dB

Conducted power: ± 0.3 dB

Conducted Spurious Emissions: ± 2.0 dB

Conducted Band Edge: ± 2.0 dB

Temperature: ± 0.698 °C

Supply voltages: $\pm 0.15\%$

Radiated Emission:

30MHz~1000MHz 4.5dB

1GHz~6GHz 4.6dB

6GHz~18GHz 5.1dB

18GHz~26.5GHz 5.1dB

6. TEST ITEMS

6.1. Conducted Power & Effective Radiated Power

6.1.1. Test Standard

FCC: CFR Part 2.1046, 24.232, 27.50

6.1.2. Test Limit

24.232 (b)(c) Power limits.

(b) Mobile/portable stations are limited to 2 Watts effective isotropic radiated power (EIRP).

(c) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any 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 over the full bandwidth of the channel.

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

27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

27.50 (c) The following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band (10) Portable stations (hand-held de-vices) are limited to 3 watts ERP.

27.50 (h) (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.

6.1.3. Test Procedure

KDB 971168 Section 5.6

$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB)}$

$ERP/EIRP = P_{Meas} + GT - LC$

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

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

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers.

6.1.4. Test Data

Please refer to Appendix A

6.2. Peak to Average Ratio

6.2.1. Test Standard

FCC: CFR 47 (FCC) part 24.232, 27.50

6.2.2. Test Limit

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

6.2.3. Test Procedure

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

For LTE operating mode: a. The EUT was connected to spectrum and system simulator via a power divider. b. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer. c. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%. d. Record the deviation as Peak to Average Ratio.

6.2.4. Test Data

Please refer to Appendix B

6.3.Occupied Bandwidth & Emission Bandwidth

6.3.1.Test Standard

FCC: CFR Part 2.1049, CFR Part 24.238, CRF Part 27

6.3.2.Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable.

Transmitters employing digital modulation techniques-when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated.

6.3.3.Test Procedure

1. Connect the equipment as shown in the above diagram.
 2. Adjust the settings of the Universal Radio Communication Tester (CMU/CMW) to set the EUT to its maximum power at the required channel.
 3. Set the spectrum analyzer to measure the 99% occupied bandwidth. Record the value.
 4. Set the spectrum analyzer to measure the -26 dB emission bandwidth. Record the value.
 5. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
- Spectrum analyzer settings: Measurement bandwidth of at least 1% of the occupied bandwidth.

6.3.4.Test Data

Please refer to Appendix C

6.4. Conducted Band Edge

6.4.1. Test Standard

FCC: CFR Part 2.1051, 24.238, 27.53

6.4.2. Test Limit

The radio frequency voltage or power generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in FCC 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

§24.238:

specifies that “on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10} (P)$ dB.”

§27.53:

(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;

(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 MHz 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 $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 megahertz from the channel edges. (Channel edges are defined under §27.5 (i) Frequency assignment for the BRS/EBS band)

(m)(6) 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. 100 kHz of 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.

6.4.3. Test Procedure

1. Connect the equipment as shown in the above diagram with the EUT's antenna in a horizontal orientation.
 2. Adjust the settings of the Wideband Radio Communication Tester (CMW500) to set the EUT to its maximum power at the required channel.
 3. Set the spectrum analyzer to measure peak hold with the required settings.
 4. Place the measurement antenna in a horizontal orientation. Rotate the EUT 360 . Raise the measurement antenna up to 4 meters in 0.5 meters increments and rotate the EUT 360 at each height to maximize all emissions. Measure and record all spurious emissions (LVL) up to the tenth harmonic of the carrier frequency.
 5. Replace the EUT with a horizontally polarized half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.
 6. Connect the antenna to a signal generator with known output power and record the path loss in dB (LOSS). $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$.
 7. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
 8. Repeat steps 4, 5 and 6 with all antennas vertically polarized.
 9. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
 10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
- (Note: Steps 5 and 6 above are performed prior to testing and LOSS is recorded by test software. Steps 3, 4 and 7 above are performed with test software.)
Spectrum analyzer settings: RBW=1MHz, VBW=3*RBW

6.4.4. Test Data

Please refer to Appendix D

6.5. Conducted Spurious Emissions

6.5.1. Test Standard

FCC: CFR Part 2.1051, CFR Part 24.238, CFR Part 27.53

6.5.2. Test Limit

The radio frequency voltage or power generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in FCC 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

(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. For all power levels +30dBm to 0dBm, this becomes a constant specification of -13dBm.

§24.238:

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

(b) Measurement procedure. Compliance with these provisions 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. 100 kHz of 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.

§27.53:

(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;
- (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 MHz 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 $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 megahertz from the channel edges. (Channel edges are defined under

§27.5 (i) Frequency assignment for the BRS/EBS band)

(m)(6) 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. 100 kHz of 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.

6.5.3. Test Procedure

1. Connect the equipment as shown in the above diagram.
 2. Set the spectrum analyzer to measure peak hold with the required settings.
 3. Set the signal generator to a known output power and record the path loss in dB (LOSS) for frequencies up to the tenth harmonic of the EUT's carrier frequency.
$$\text{LOSS} = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}.$$
 4. Replace the signal generator with the EUT.
 5. Adjust the settings of the Universal Radio Communication Tester (CMU) to set the EUT to its maximum power at the required channel.
 6. Set the spectrum analyzer to measure peak hold with the required settings. Offset the spectrum analyzer reference level by the path loss measured above.
 7. Measure and record all spurious emissions up to the tenth harmonic of the carrier frequency.
 8. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
 9. If necessary steps 6 and 7 may be performed with the spectrum analyzer set to average detector.
- (Note: Step 3 above is performed prior to testing and LOSS is recorded by test software. Steps 2, 6, and 7 above are performed with test software.)

6.5.4. Test Data

Please refer to Appendix E

6.6. Frequency Stability

6.6.1. Test Standard

FCC: CFR 47 (FCC) part 2.1055, 24.235 , 27.54

6.6.2. Test Limit

§24.235 & §27.54:

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

6.6.3. Test Setup

Frequency Stability (Temperature Variation)

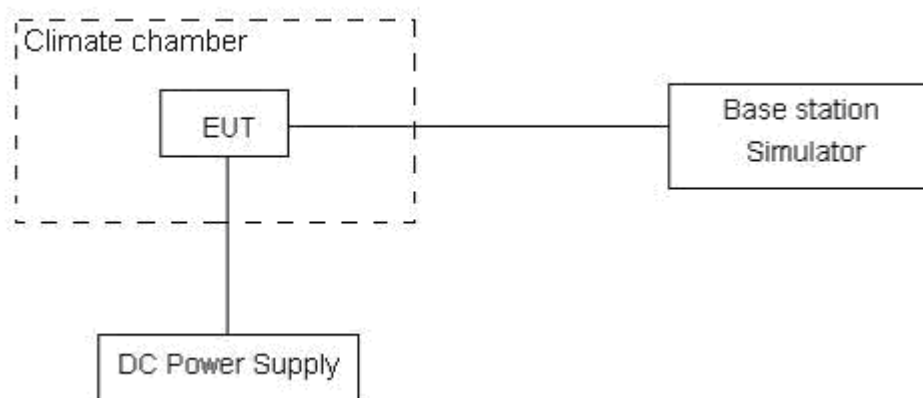
The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,

- (1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.
- (2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.
- (3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.



6.6.4. Test Data

Please refer to Appendix F

6.7. Radiated Spurious Emissions

6.7.1. Test Standard

FCC: CFR Part 2.1051, 24.238, 27.53

6.7.2. Test Limit

The radio frequency voltage or power generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in FCC 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

(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. For all power levels +30dBm to 0dBm, this becomes a constant specification of -13dBm.

§24.238:

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

(b) Measurement procedure. Compliance with these provisions 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. 100 kHz of 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.

§27.53:

(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;
- (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 MHz 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 $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 megahertz from the channel edges. (Channel edges are defined under §27.5 (i) Frequency assignment for the BRS/EBS band)

(m)(6) 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. 100 kHz of 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.

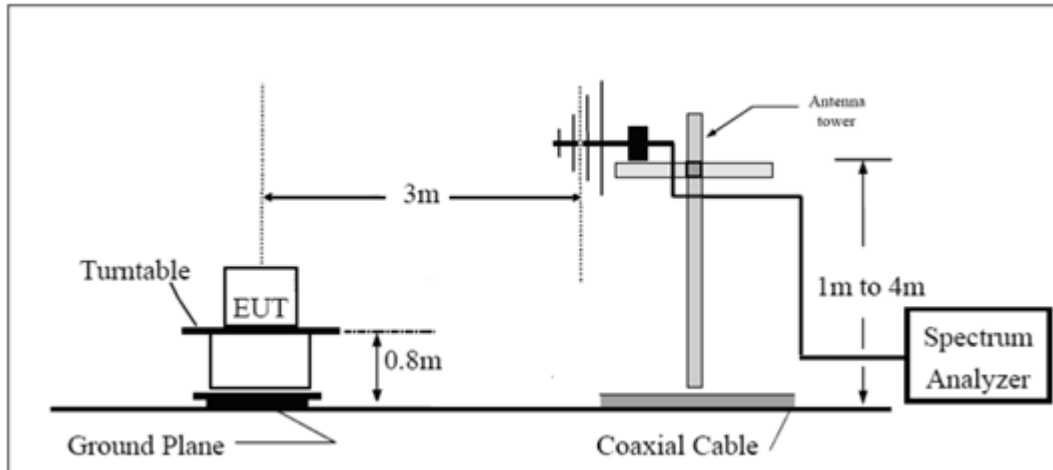
6.7.3. Test Procedure

1. Connect the equipment as shown in the above diagram with the EUT's antenna in a horizontal orientation.
 2. Adjust the settings of the Wideband Radio Communication Tester (CMW500) to set the EUT to its maximum power at the required channel.
 3. Set the spectrum analyzer to measure peak hold with the required settings.
 4. Place the measurement antenna in a horizontal orientation. Rotate the EUT 360°. Raise the measurement antenna up to 4 meters in 0.5 meters increments and rotate the EUT 360° at each height to maximize all emissions. Measure and record all spurious emissions (LVL) up to the tenth harmonic of the carrier frequency.
 5. Replace the EUT with a horizontally polarized half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.
 6. Connect the antenna to a signal generator with known output power and record the path loss in dB (LOSS). $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$.
 7. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
 8. Repeat steps 4, 5 and 6 with all antennas vertically polarized.
 9. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
 10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
- (Note: Steps 5 and 6 above are performed prior to testing and LOSS is recorded by test

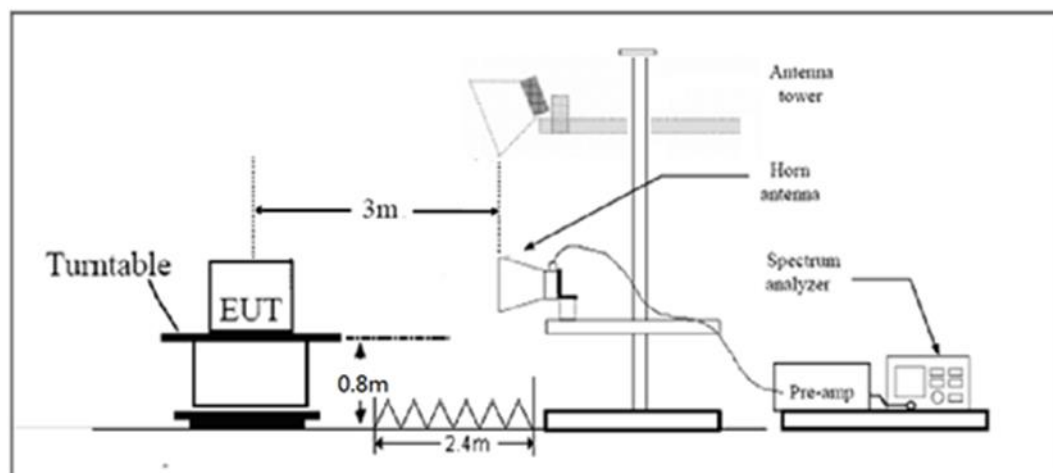
software. Steps 3, 4 and 7 above are performed with test software.)
Spectrum analyzer settings: RBW=VBW=1MHz

6.7.4. Test Setup

For Radiated test from 30MHz to 1GHz



For Radiated test above 1GHz



6.7.5. Test Data

Please refer to Appendix G

7. APPENDIX A: TEST RESULTS OF CONDUCTED POWER & EFFECTIVE RADIATED POWER

WCDMA:

Band	Channel	Conducted Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
Band2	9262	23.11	31.78	33	PASS
Band2	9400	23.63	32.30	33	PASS
Band2	9538	23.58	32.25	33	PASS
Band4	1312	23.28	29.93	30	PASS
Band4	1413	23.17	29.82	30	PASS
Band4	1513	23.28	29.93	30	PASS

LTE:

Band	Bandwidth	Modulation	Channel	RB Config.	Power (dBm)	ERP/EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.09	31.76	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#3	23.16	31.83	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.00	31.67	33	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.03	31.70	33	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	22.95	31.62	33	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.99	31.66	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.97	30.64	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.11	31.78	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#3	23.02	31.69	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.95	31.62	33	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.93	31.60	33	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.90	31.57	33	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	23.01	31.68	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.00	30.67	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.92	31.59	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#3	22.98	31.65	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.75	31.42	33	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.85	31.52	33	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.81	31.48	33	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.77	31.44	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.85	30.52	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.25	30.92	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#3	22.46	31.13	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.17	30.84	33	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.08	30.75	33	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.89	30.56	33	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.95	30.62	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.08	29.75	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.04	30.71	33	PASS

Band2	1.4MHz	16QAM	18900	1RB#3	22.08	30.75	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.11	30.78	33	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	22.01	30.68	33	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.95	30.62	33	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	22.04	30.71	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.13	29.80	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.88	30.55	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#3	22.12	30.79	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.83	30.50	33	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.91	30.58	33	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.78	30.45	33	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	21.83	30.50	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.98	29.65	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.04	31.71	33	PASS
Band2	3MHz	QPSK	18615	1RB#7	23.03	31.70	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.13	31.80	33	PASS
Band2	3MHz	QPSK	18615	8RB#0	22.14	30.81	33	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.12	30.79	33	PASS
Band2	3MHz	QPSK	18615	8RB#7	22.13	30.80	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.98	30.65	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.01	31.68	33	PASS
Band2	3MHz	QPSK	18900	1RB#7	22.91	31.58	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.07	31.74	33	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.95	30.62	33	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.94	30.61	33	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.94	30.61	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.93	30.60	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.78	31.45	33	PASS
Band2	3MHz	QPSK	19185	1RB#7	22.66	31.33	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.75	31.42	33	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.70	30.37	33	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.80	30.47	33	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.72	30.39	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.75	30.42	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.94	30.61	33	PASS
Band2	3MHz	16QAM	18615	1RB#7	21.76	30.43	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.02	30.69	33	PASS
Band2	3MHz	16QAM	18615	8RB#0	21.15	29.82	33	PASS
Band2	3MHz	16QAM	18615	8RB#4	21.02	29.69	33	PASS
Band2	3MHz	16QAM	18615	8RB#7	21.07	29.74	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.95	29.62	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.06	30.73	33	PASS
Band2	3MHz	16QAM	18900	1RB#7	22.09	30.76	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.02	30.69	33	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.96	29.63	33	PASS
Band2	3MHz	16QAM	18900	8RB#4	21.03	29.70	33	PASS

Band2	3MHz	16QAM	18900	8RB#7	20.96	29.63	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.96	29.63	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.71	30.38	33	PASS
Band2	3MHz	16QAM	19185	1RB#7	21.44	30.11	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.65	30.32	33	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.82	29.49	33	PASS
Band2	3MHz	16QAM	19185	8RB#4	20.85	29.52	33	PASS
Band2	3MHz	16QAM	19185	8RB#7	20.88	29.55	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.70	29.37	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.05	31.72	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.13	31.80	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.06	31.73	33	PASS
Band2	5MHz	QPSK	18625	12RB#0	22.01	30.68	33	PASS
Band2	5MHz	QPSK	18625	12RB#6	22.10	30.77	33	PASS
Band2	5MHz	QPSK	18625	12RB#13	22.02	30.69	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.98	30.65	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.97	31.64	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.96	31.63	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.98	31.65	33	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.96	30.63	33	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.96	30.63	33	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.96	30.63	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.00	30.67	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.70	31.37	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.70	31.37	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.69	31.36	33	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.77	30.44	33	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.77	30.44	33	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.68	30.35	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.74	30.41	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.20	30.87	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.15	30.82	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.31	30.98	33	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.99	29.66	33	PASS
Band2	5MHz	16QAM	18625	12RB#6	21.14	29.81	33	PASS
Band2	5MHz	16QAM	18625	12RB#13	21.04	29.71	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.98	29.65	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.21	30.88	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.03	30.70	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.33	31.00	33	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.99	29.66	33	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.94	29.61	33	PASS
Band2	5MHz	16QAM	18900	12RB#13	21.07	29.74	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.02	29.69	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.93	30.60	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.72	30.39	33	PASS

Band2	5MHz	16QAM	19175	1RB#24	21.63	30.30	33	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.85	29.52	33	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.83	29.50	33	PASS
Band2	5MHz	16QAM	19175	12RB#13	20.71	29.38	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.81	29.48	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.01	31.68	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.04	31.71	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.00	31.67	33	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.93	30.60	33	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.91	30.58	33	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.89	30.56	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.94	30.61	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.86	31.53	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.92	31.59	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.94	31.61	33	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.88	30.55	33	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.87	30.54	33	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.95	30.62	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.75	30.42	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.72	31.39	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.77	31.44	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.62	31.29	33	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.67	30.34	33	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.67	30.34	33	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.67	30.34	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.74	30.41	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.06	30.73	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.10	30.77	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.64	30.31	33	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.96	29.63	33	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.95	29.62	33	PASS
Band2	10MHz	16QAM	18650	25RB#25	20.95	29.62	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.01	29.68	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.66	30.33	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.92	30.59	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.82	30.49	33	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.92	29.59	33	PASS
Band2	10MHz	16QAM	18900	25RB#12	20.85	29.52	33	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.90	29.57	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.82	29.49	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.76	30.43	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.91	30.58	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.69	30.36	33	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.67	29.34	33	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.77	29.44	33	PASS
Band2	10MHz	16QAM	19150	25RB#25	20.79	29.46	33	PASS

Band2	10MHz	16QAM	19150	50RB#0	20.72	29.39	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.01	31.68	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.13	31.80	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.16	31.83	33	PASS
Band2	15MHz	QPSK	18675	38RB#0	22.14	30.81	33	PASS
Band2	15MHz	QPSK	18675	38RB#18	22.11	30.78	33	PASS
Band2	15MHz	QPSK	18675	38RB#37	21.93	30.60	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.08	30.75	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.03	31.70	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.33	31.00	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.32	30.99	33	PASS
Band2	15MHz	QPSK	18900	38RB#0	21.37	30.04	33	PASS
Band2	15MHz	QPSK	18900	38RB#18	21.57	30.24	33	PASS
Band2	15MHz	QPSK	18900	38RB#37	21.86	30.53	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.93	30.60	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.12	31.79	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.70	31.37	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.51	31.18	33	PASS
Band2	15MHz	QPSK	19125	38RB#0	21.94	30.61	33	PASS
Band2	15MHz	QPSK	19125	38RB#18	21.75	30.42	33	PASS
Band2	15MHz	QPSK	19125	38RB#37	21.91	30.58	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.93	30.60	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.23	30.90	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.88	30.55	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.93	30.60	33	PASS
Band2	15MHz	16QAM	18675	38RB#0	21.90	30.57	33	PASS
Band2	15MHz	16QAM	18675	38RB#18	21.96	30.63	33	PASS
Band2	15MHz	16QAM	18675	38RB#37	22.06	30.73	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.88	29.55	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.45	30.12	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.33	30.00	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.36	30.03	33	PASS
Band2	15MHz	16QAM	18900	38RB#0	21.72	30.39	33	PASS
Band2	15MHz	16QAM	18900	38RB#18	21.86	30.53	33	PASS
Band2	15MHz	16QAM	18900	38RB#37	21.92	30.59	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.90	29.57	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.98	30.65	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.01	30.68	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.82	30.49	33	PASS
Band2	15MHz	16QAM	19125	38RB#0	22.12	30.79	33	PASS
Band2	15MHz	16QAM	19125	38RB#18	21.92	30.59	33	PASS
Band2	15MHz	16QAM	19125	38RB#37	21.74	30.41	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.92	29.59	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.98	31.65	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.28	31.95	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.09	31.76	33	PASS

Band2	20MHz	QPSK	18700	50RB#0	22.17	30.84	33	PASS
Band2	20MHz	QPSK	18700	50RB#25	22.07	30.74	33	PASS
Band2	20MHz	QPSK	18700	50RB#50	22.08	30.75	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.98	30.65	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.03	31.70	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.21	31.88	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.17	31.84	33	PASS
Band2	20MHz	QPSK	18900	50RB#0	22.21	30.88	33	PASS
Band2	20MHz	QPSK	18900	50RB#25	22.20	30.87	33	PASS
Band2	20MHz	QPSK	18900	50RB#50	22.18	30.85	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.20	30.87	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.29	31.96	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.14	31.81	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.80	31.47	33	PASS
Band2	20MHz	QPSK	19100	50RB#0	22.10	30.77	33	PASS
Band2	20MHz	QPSK	19100	50RB#25	22.10	30.77	33	PASS
Band2	20MHz	QPSK	19100	50RB#50	22.03	30.70	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.06	30.73	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.17	30.84	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	23.03	31.70	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.87	30.54	33	PASS
Band2	20MHz	16QAM	18700	50RB#0	21.13	29.80	33	PASS
Band2	20MHz	16QAM	18700	50RB#25	21.06	29.73	33	PASS
Band2	20MHz	16QAM	18700	50RB#50	20.99	29.66	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.00	29.67	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.23	30.90	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.89	31.56	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.26	30.93	33	PASS
Band2	20MHz	16QAM	18900	50RB#0	21.16	29.83	33	PASS
Band2	20MHz	16QAM	18900	50RB#25	21.29	29.96	33	PASS
Band2	20MHz	16QAM	18900	50RB#50	21.23	29.90	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.26	29.93	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.93	31.60	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.92	30.59	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.30	30.97	33	PASS
Band2	20MHz	16QAM	19100	50RB#0	21.10	29.77	33	PASS
Band2	20MHz	16QAM	19100	50RB#25	21.22	29.89	33	PASS
Band2	20MHz	16QAM	19100	50RB#50	20.95	29.62	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.13	29.80	33	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	21.94	28.59	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#3	22.03	28.68	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	21.89	28.54	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	21.97	28.62	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#2	21.92	28.57	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	21.93	28.58	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.02	27.67	30	PASS

Band4	1.4MHz	QPSK	20175	1RB#0	22.04	28.69	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#3	22.24	28.89	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.17	28.82	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.12	28.77	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#2	22.14	28.79	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.18	28.83	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.05	27.70	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.09	29.74	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#3	23.30	29.95	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.17	29.82	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.15	29.80	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#2	23.17	29.82	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.14	29.79	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.11	28.76	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	20.91	27.56	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#3	20.90	27.55	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	20.72	27.37	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	20.96	27.61	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#2	20.92	27.57	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	20.93	27.58	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.09	26.74	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.10	27.75	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#3	21.32	27.97	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.25	27.90	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	20.99	27.64	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#2	20.97	27.62	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.19	27.84	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.11	26.76	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.31	28.96	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#3	22.55	29.20	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.31	28.96	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.16	28.81	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#2	22.17	28.82	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.19	28.84	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.14	27.79	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.05	28.70	30	PASS
Band4	3MHz	QPSK	19965	1RB#7	22.22	28.87	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.22	28.87	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.30	27.95	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.25	27.90	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.23	27.88	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.11	27.76	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.21	28.86	30	PASS
Band4	3MHz	QPSK	20175	1RB#7	22.28	28.93	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.30	28.95	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.16	27.81	30	PASS

Band4	3MHz	QPSK	20175	8RB#4	21.09	27.74	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.17	27.82	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.99	27.64	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.16	28.81	30	PASS
Band4	3MHz	QPSK	20385	1RB#7	22.23	28.88	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.22	28.87	30	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.18	27.83	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.09	27.74	30	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.21	27.86	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.12	27.77	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.26	27.91	30	PASS
Band4	3MHz	16QAM	19965	1RB#7	21.10	27.75	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.49	28.14	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.24	26.89	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.19	26.84	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.30	26.95	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.12	26.77	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.40	28.05	30	PASS
Band4	3MHz	16QAM	20175	1RB#7	21.51	28.16	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.50	28.15	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.13	26.78	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.15	26.80	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.07	26.72	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.07	26.72	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.19	27.84	30	PASS
Band4	3MHz	16QAM	20385	1RB#7	20.89	27.54	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.19	27.84	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.15	26.80	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.20	26.85	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.21	26.86	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.29	26.94	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.10	28.75	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.02	28.67	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.10	28.75	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.11	27.76	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.10	27.75	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.06	27.71	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.09	27.74	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.04	28.69	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.13	28.78	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.05	28.70	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	20.98	27.63	30	PASS
Band4	5MHz	QPSK	20175	12RB#6	20.97	27.62	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.04	27.69	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.03	27.68	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.16	28.81	30	PASS

Band4	5MHz	QPSK	20375	1RB#12	22.22	28.87	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.23	28.88	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.14	27.79	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.15	27.80	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.24	27.89	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.15	27.80	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.37	28.02	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.17	27.82	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.17	27.82	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.15	26.80	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.19	26.84	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.10	26.75	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.08	26.73	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.05	27.70	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.18	27.83	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.04	27.69	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	19.98	26.63	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.05	26.70	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.07	26.72	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.04	26.69	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.29	27.94	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.39	28.04	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.57	28.22	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.24	26.89	30	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.23	26.88	30	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.29	26.94	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.15	26.80	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.23	28.88	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.08	28.73	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.93	28.58	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.19	27.84	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.10	27.75	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	20.92	27.57	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	20.95	27.60	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.13	28.78	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.48	29.13	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.65	29.30	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.14	27.79	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.14	27.79	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.48	28.13	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.25	27.90	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.11	29.96	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.28	29.03	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.33	29.98	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.18	28.83	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.19	28.84	30	PASS

Band4	10MHz	QPSK	20350	25RB#25	22.18	28.83	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.17	28.82	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.20	27.85	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.05	27.70	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	20.76	27.41	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.17	26.82	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.18	26.83	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	19.96	26.61	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.00	26.65	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.18	27.83	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.24	27.89	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.53	28.18	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.20	26.85	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.22	26.87	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.54	27.19	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.32	26.97	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.01	28.66	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.54	29.19	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.15	28.80	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.19	27.84	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.27	27.92	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.28	27.93	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.25	27.90	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.14	28.79	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.11	28.76	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.12	28.77	30	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.10	27.75	30	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.05	27.70	30	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.31	27.96	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.13	27.78	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	21.15	27.80	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.54	28.19	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	21.48	28.13	30	PASS
Band4	15MHz	QPSK	20175	38RB#0	20.51	27.16	30	PASS
Band4	15MHz	QPSK	20175	38RB#18	20.64	27.29	30	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.35	28.00	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.33	27.98	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.24	28.89	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.48	29.13	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.27	28.92	30	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.33	27.98	30	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.62	28.27	30	PASS
Band4	15MHz	QPSK	20325	38RB#37	20.69	27.34	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.46	28.11	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.31	27.96	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	20.94	27.59	30	PASS

Band4	15MHz	16QAM	20025	1RB#74	21.33	27.98	30	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.02	27.67	30	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.17	27.82	30	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.24	27.89	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	19.39	26.04	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	20.45	27.10	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	20.41	27.06	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	20.44	27.09	30	PASS
Band4	15MHz	16QAM	20175	38RB#0	20.41	27.06	30	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.46	28.11	30	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.35	28.00	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.45	27.10	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.50	28.15	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.48	28.13	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.41	28.06	30	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.48	28.13	30	PASS
Band4	15MHz	16QAM	20325	38RB#18	20.88	27.53	30	PASS
Band4	15MHz	16QAM	20325	38RB#37	20.58	27.23	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.53	27.18	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.47	29.12	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.61	29.26	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.34	28.99	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.23	27.88	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.28	27.93	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.31	27.96	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.22	27.87	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.47	29.12	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.83	29.48	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.31	28.96	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.39	28.04	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.40	28.05	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.28	27.93	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.44	28.09	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.35	29.00	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.62	29.27	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.22	28.87	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.50	28.15	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.49	28.14	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.40	28.05	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.30	27.95	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.09	27.74	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.72	28.37	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.36	28.01	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.31	26.96	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.30	26.95	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.36	27.01	30	PASS

Band4	20MHz	16QAM	20050	100RB#0	20.31	26.96	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.59	28.24	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.73	28.38	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.08	28.73	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.41	27.06	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.32	26.97	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.35	27.00	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.41	27.06	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.65	28.30	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.48	28.13	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.05	27.70	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.43	27.08	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.37	27.02	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.54	27.19	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.31	26.96	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#0	22.62	29.27	38.5	PASS
Band66	1.4MHz	QPSK	131979	1RB#3	22.62	29.27	38.5	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	22.46	29.11	38.5	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	22.56	29.21	38.5	PASS
Band66	1.4MHz	QPSK	131979	3RB#2	22.53	29.18	38.5	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	22.53	29.18	38.5	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.59	28.24	38.5	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	22.92	29.57	38.5	PASS
Band66	1.4MHz	QPSK	132322	1RB#3	22.93	29.58	38.5	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	22.74	29.39	38.5	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	22.82	29.47	38.5	PASS
Band66	1.4MHz	QPSK	132322	3RB#2	22.81	29.46	38.5	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	22.78	29.43	38.5	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	21.92	28.57	38.5	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.68	29.33	38.5	PASS
Band66	1.4MHz	QPSK	132665	1RB#3	22.82	29.47	38.5	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	21.93	28.58	38.5	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	22.69	29.34	38.5	PASS
Band66	1.4MHz	QPSK	132665	3RB#2	22.65	29.30	38.5	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	22.79	29.44	38.5	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.76	28.41	38.5	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	21.48	28.13	38.5	PASS
Band66	1.4MHz	16QAM	131979	1RB#3	21.68	28.33	38.5	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.48	28.13	38.5	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	21.47	28.12	38.5	PASS
Band66	1.4MHz	16QAM	131979	3RB#2	21.56	28.21	38.5	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	21.56	28.21	38.5	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	20.55	27.20	38.5	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.75	28.40	38.5	PASS
Band66	1.4MHz	16QAM	132322	1RB#3	21.92	28.57	38.5	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.83	28.48	38.5	PASS

Band66	1.4MHz	16QAM	132322	3RB#0	21.94	28.59	38.5	PASS
Band66	1.4MHz	16QAM	132322	3RB#2	21.91	28.56	38.5	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	21.82	28.47	38.5	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.99	27.64	38.5	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.93	28.58	38.5	PASS
Band66	1.4MHz	16QAM	132665	1RB#3	21.23	27.88	38.5	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.64	28.29	38.5	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	21.65	28.30	38.5	PASS
Band66	1.4MHz	16QAM	132665	3RB#2	21.89	28.54	38.5	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	21.61	28.26	38.5	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.86	27.51	38.5	PASS
Band66	3MHz	QPSK	131987	1RB#0	22.17	28.82	38.5	PASS
Band66	3MHz	QPSK	131987	1RB#8	22.22	28.87	38.5	PASS
Band66	3MHz	QPSK	131987	1RB#14	22.61	29.26	38.5	PASS
Band66	3MHz	QPSK	131987	8RB#0	21.58	28.23	38.5	PASS
Band66	3MHz	QPSK	131987	8RB#4	21.58	28.23	38.5	PASS
Band66	3MHz	QPSK	131987	8RB#7	21.63	28.28	38.5	PASS
Band66	3MHz	QPSK	131987	15RB#0	21.55	28.20	38.5	PASS
Band66	3MHz	QPSK	132322	1RB#0	22.85	29.50	38.5	PASS
Band66	3MHz	QPSK	132322	1RB#8	22.78	29.43	38.5	PASS
Band66	3MHz	QPSK	132322	1RB#14	22.63	29.28	38.5	PASS
Band66	3MHz	QPSK	132322	8RB#0	21.74	28.39	38.5	PASS
Band66	3MHz	QPSK	132322	8RB#4	21.72	28.37	38.5	PASS
Band66	3MHz	QPSK	132322	8RB#7	21.66	28.31	38.5	PASS
Band66	3MHz	QPSK	132322	15RB#0	21.68	28.33	38.5	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.79	29.44	38.5	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.70	29.35	38.5	PASS
Band66	3MHz	QPSK	132657	1RB#14	22.76	29.41	38.5	PASS
Band66	3MHz	QPSK	132657	8RB#0	21.87	28.52	38.5	PASS
Band66	3MHz	QPSK	132657	8RB#4	21.88	28.53	38.5	PASS
Band66	3MHz	QPSK	132657	8RB#7	21.88	28.53	38.5	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.86	28.51	38.5	PASS
Band66	3MHz	16QAM	131987	1RB#0	21.25	27.90	38.5	PASS
Band66	3MHz	16QAM	131987	1RB#8	21.26	27.91	38.5	PASS
Band66	3MHz	16QAM	131987	1RB#14	21.62	28.27	38.5	PASS
Band66	3MHz	16QAM	131987	8RB#0	20.64	27.29	38.5	PASS
Band66	3MHz	16QAM	131987	8RB#4	20.52	27.17	38.5	PASS
Band66	3MHz	16QAM	131987	8RB#7	20.61	27.26	38.5	PASS
Band66	3MHz	16QAM	131987	15RB#0	20.58	27.23	38.5	PASS
Band66	3MHz	16QAM	132322	1RB#0	21.92	28.57	38.5	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.84	28.49	38.5	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.69	28.34	38.5	PASS
Band66	3MHz	16QAM	132322	8RB#0	20.70	27.35	38.5	PASS
Band66	3MHz	16QAM	132322	8RB#4	20.75	27.40	38.5	PASS
Band66	3MHz	16QAM	132322	8RB#7	20.64	27.29	38.5	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.68	27.33	38.5	PASS

Band66	3MHz	16QAM	132657	1RB#0	21.78	28.43	38.5	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.85	28.50	38.5	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.80	28.45	38.5	PASS
Band66	3MHz	16QAM	132657	8RB#0	20.95	27.60	38.5	PASS
Band66	3MHz	16QAM	132657	8RB#4	20.97	27.62	38.5	PASS
Band66	3MHz	16QAM	132657	8RB#7	20.84	27.49	38.5	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.85	27.50	38.5	PASS
Band66	5MHz	QPSK	131997	1RB#0	22.42	29.07	38.5	PASS
Band66	5MHz	QPSK	131997	1RB#12	22.61	29.26	38.5	PASS
Band66	5MHz	QPSK	131997	1RB#24	22.60	29.25	38.5	PASS
Band66	5MHz	QPSK	131997	12RB#0	21.69	28.34	38.5	PASS
Band66	5MHz	QPSK	131997	12RB#6	21.68	28.33	38.5	PASS
Band66	5MHz	QPSK	131997	12RB#13	21.60	28.25	38.5	PASS
Band66	5MHz	QPSK	131997	25RB#0	21.74	28.39	38.5	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.81	29.46	38.5	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.85	29.50	38.5	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.54	29.19	38.5	PASS
Band66	5MHz	QPSK	132322	12RB#0	21.87	28.52	38.5	PASS
Band66	5MHz	QPSK	132322	12RB#6	21.89	28.54	38.5	PASS
Band66	5MHz	QPSK	132322	12RB#13	21.66	28.31	38.5	PASS
Band66	5MHz	QPSK	132322	25RB#0	21.63	28.28	38.5	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.83	29.48	38.5	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.83	29.48	38.5	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.72	29.37	38.5	PASS
Band66	5MHz	QPSK	132647	12RB#0	21.94	28.59	38.5	PASS
Band66	5MHz	QPSK	132647	12RB#6	21.94	28.59	38.5	PASS
Band66	5MHz	QPSK	132647	12RB#13	21.84	28.49	38.5	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.87	28.52	38.5	PASS
Band66	5MHz	16QAM	131997	1RB#0	21.33	27.98	38.5	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.75	28.40	38.5	PASS
Band66	5MHz	16QAM	131997	1RB#24	21.59	28.24	38.5	PASS
Band66	5MHz	16QAM	131997	12RB#0	20.52	27.17	38.5	PASS
Band66	5MHz	16QAM	131997	12RB#6	20.68	27.33	38.5	PASS
Band66	5MHz	16QAM	131997	12RB#13	20.58	27.23	38.5	PASS
Band66	5MHz	16QAM	131997	25RB#0	20.63	27.28	38.5	PASS
Band66	5MHz	16QAM	132322	1RB#0	22.10	28.75	38.5	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.90	28.55	38.5	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.52	28.17	38.5	PASS
Band66	5MHz	16QAM	132322	12RB#0	20.94	27.59	38.5	PASS
Band66	5MHz	16QAM	132322	12RB#6	20.80	27.45	38.5	PASS
Band66	5MHz	16QAM	132322	12RB#13	20.72	27.37	38.5	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.68	27.33	38.5	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.98	28.63	38.5	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.93	28.58	38.5	PASS
Band66	5MHz	16QAM	132647	1RB#24	21.77	28.42	38.5	PASS
Band66	5MHz	16QAM	132647	12RB#0	20.93	27.58	38.5	PASS

Band66	5MHz	16QAM	132647	12RB#6	20.89	27.54	38.5	PASS
Band66	5MHz	16QAM	132647	12RB#13	20.97	27.62	38.5	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.89	27.54	38.5	PASS
Band66	10MHz	QPSK	132022	1RB#0	22.38	29.03	38.5	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.56	29.21	38.5	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.40	29.05	38.5	PASS
Band66	10MHz	QPSK	132022	25RB#0	21.62	28.27	38.5	PASS
Band66	10MHz	QPSK	132022	25RB#12	21.52	28.17	38.5	PASS
Band66	10MHz	QPSK	132022	25RB#25	21.73	28.38	38.5	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.69	28.34	38.5	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.50	29.15	38.5	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.58	29.23	38.5	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.67	29.32	38.5	PASS
Band66	10MHz	QPSK	132322	25RB#0	21.85	28.50	38.5	PASS
Band66	10MHz	QPSK	132322	25RB#12	21.87	28.52	38.5	PASS
Band66	10MHz	QPSK	132322	25RB#25	21.66	28.31	38.5	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.77	28.42	38.5	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.83	29.48	38.5	PASS
Band66	10MHz	QPSK	132622	1RB#24	23.06	29.71	38.5	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.80	29.45	38.5	PASS
Band66	10MHz	QPSK	132622	25RB#0	21.89	28.54	38.5	PASS
Band66	10MHz	QPSK	132622	25RB#12	21.79	28.44	38.5	PASS
Band66	10MHz	QPSK	132622	25RB#25	21.82	28.47	38.5	PASS
Band66	10MHz	QPSK	132622	50RB#0	21.85	28.50	38.5	PASS
Band66	10MHz	16QAM	132022	1RB#0	21.41	28.06	38.5	PASS
Band66	10MHz	16QAM	132022	1RB#24	21.96	28.61	38.5	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.77	28.42	38.5	PASS
Band66	10MHz	16QAM	132022	25RB#0	20.57	27.22	38.5	PASS
Band66	10MHz	16QAM	132022	25RB#12	20.39	27.04	38.5	PASS
Band66	10MHz	16QAM	132022	25RB#25	20.69	27.34	38.5	PASS
Band66	10MHz	16QAM	132022	50RB#0	20.60	27.25	38.5	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.64	28.29	38.5	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.79	28.44	38.5	PASS
Band66	10MHz	16QAM	132322	1RB#49	21.76	28.41	38.5	PASS
Band66	10MHz	16QAM	132322	25RB#0	20.78	27.43	38.5	PASS
Band66	10MHz	16QAM	132322	25RB#12	20.76	27.41	38.5	PASS
Band66	10MHz	16QAM	132322	25RB#25	20.63	27.28	38.5	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.66	27.31	38.5	PASS
Band66	10MHz	16QAM	132622	1RB#0	22.01	28.66	38.5	PASS
Band66	10MHz	16QAM	132622	1RB#24	22.24	28.89	38.5	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.91	28.56	38.5	PASS
Band66	10MHz	16QAM	132622	25RB#0	20.89	27.54	38.5	PASS
Band66	10MHz	16QAM	132622	25RB#12	20.86	27.51	38.5	PASS
Band66	10MHz	16QAM	132622	25RB#25	20.79	27.44	38.5	PASS
Band66	10MHz	16QAM	132622	50RB#0	20.78	27.43	38.5	PASS
Band66	15MHz	QPSK	132047	1RB#0	22.49	29.14	38.5	PASS

Band66	15MHz	QPSK	132047	1RB#38	22.59	29.24	38.5	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.67	29.32	38.5	PASS
Band66	15MHz	QPSK	132047	38RB#0	21.40	28.05	38.5	PASS
Band66	15MHz	QPSK	132047	38RB#18	21.77	28.42	38.5	PASS
Band66	15MHz	QPSK	132047	38RB#37	21.46	28.11	38.5	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.61	28.26	38.5	PASS
Band66	15MHz	QPSK	132322	1RB#0	22.60	29.25	38.5	PASS
Band66	15MHz	QPSK	132322	1RB#38	22.73	29.38	38.5	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.62	29.27	38.5	PASS
Band66	15MHz	QPSK	132322	38RB#0	21.76	28.41	38.5	PASS
Band66	15MHz	QPSK	132322	38RB#18	21.78	28.43	38.5	PASS
Band66	15MHz	QPSK	132322	38RB#37	21.65	28.30	38.5	PASS
Band66	15MHz	QPSK	132322	75RB#0	21.77	28.42	38.5	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.55	29.20	38.5	PASS
Band66	15MHz	QPSK	132597	1RB#38	22.63	29.28	38.5	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.58	29.23	38.5	PASS
Band66	15MHz	QPSK	132597	38RB#0	21.81	28.46	38.5	PASS
Band66	15MHz	QPSK	132597	38RB#18	22.40	29.05	38.5	PASS
Band66	15MHz	QPSK	132597	38RB#37	21.76	28.41	38.5	PASS
Band66	15MHz	QPSK	132597	75RB#0	21.63	28.28	38.5	PASS
Band66	15MHz	16QAM	132047	1RB#0	21.93	28.58	38.5	PASS
Band66	15MHz	16QAM	132047	1RB#38	21.71	28.36	38.5	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.80	28.45	38.5	PASS
Band66	15MHz	16QAM	132047	38RB#0	21.79	28.44	38.5	PASS
Band66	15MHz	16QAM	132047	38RB#18	21.32	27.97	38.5	PASS
Band66	15MHz	16QAM	132047	38RB#37	21.59	28.24	38.5	PASS
Band66	15MHz	16QAM	132047	75RB#0	20.61	27.26	38.5	PASS
Band66	15MHz	16QAM	132322	1RB#0	21.71	28.36	38.5	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.48	28.13	38.5	PASS
Band66	15MHz	16QAM	132322	1RB#74	21.68	28.33	38.5	PASS
Band66	15MHz	16QAM	132322	38RB#0	21.81	28.46	38.5	PASS
Band66	15MHz	16QAM	132322	38RB#18	21.58	28.23	38.5	PASS
Band66	15MHz	16QAM	132322	38RB#37	21.56	28.21	38.5	PASS
Band66	15MHz	16QAM	132322	75RB#0	20.77	27.42	38.5	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.69	28.34	38.5	PASS
Band66	15MHz	16QAM	132597	1RB#38	21.51	28.16	38.5	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.71	28.36	38.5	PASS
Band66	15MHz	16QAM	132597	38RB#0	22.05	28.70	38.5	PASS
Band66	15MHz	16QAM	132597	38RB#18	21.70	28.35	38.5	PASS
Band66	15MHz	16QAM	132597	38RB#37	21.74	28.39	38.5	PASS
Band66	15MHz	16QAM	132597	75RB#0	20.73	27.38	38.5	PASS
Band66	20MHz	QPSK	132072	1RB#0	22.85	29.50	38.5	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.66	29.31	38.5	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.62	29.27	38.5	PASS
Band66	20MHz	QPSK	132072	50RB#0	21.84	28.49	38.5	PASS
Band66	20MHz	QPSK	132072	50RB#25	21.75	28.40	38.5	PASS

Band66	20MHz	QPSK	132072	50RB#50	21.77	28.42	38.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.76	28.41	38.5	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.78	29.43	38.5	PASS
Band66	20MHz	QPSK	132322	1RB#49	22.96	29.61	38.5	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.74	29.39	38.5	PASS
Band66	20MHz	QPSK	132322	50RB#0	21.55	28.20	38.5	PASS
Band66	20MHz	QPSK	132322	50RB#25	21.60	28.25	38.5	PASS
Band66	20MHz	QPSK	132322	50RB#50	21.40	28.05	38.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	21.65	28.30	38.5	PASS
Band66	20MHz	QPSK	132572	1RB#0	22.50	29.15	38.5	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.82	29.47	38.5	PASS
Band66	20MHz	QPSK	132572	1RB#99	22.53	29.18	38.5	PASS
Band66	20MHz	QPSK	132572	50RB#0	21.48	28.13	38.5	PASS
Band66	20MHz	QPSK	132572	50RB#25	21.43	28.08	38.5	PASS
Band66	20MHz	QPSK	132572	50RB#50	21.39	28.04	38.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.63	28.28	38.5	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.74	28.39	38.5	PASS
Band66	20MHz	16QAM	132072	1RB#49	22.24	28.89	38.5	PASS
Band66	20MHz	16QAM	132072	1RB#99	22.23	28.88	38.5	PASS
Band66	20MHz	16QAM	132072	50RB#0	20.81	27.46	38.5	PASS
Band66	20MHz	16QAM	132072	50RB#25	20.90	27.55	38.5	PASS
Band66	20MHz	16QAM	132072	50RB#50	20.86	27.51	38.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	20.64	27.29	38.5	PASS
Band66	20MHz	16QAM	132322	1RB#0	22.00	28.65	38.5	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.66	28.31	38.5	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.22	27.87	38.5	PASS
Band66	20MHz	16QAM	132322	50RB#0	20.63	27.28	38.5	PASS
Band66	20MHz	16QAM	132322	50RB#25	20.54	27.19	38.5	PASS
Band66	20MHz	16QAM	132322	50RB#50	20.63	27.28	38.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.69	27.34	38.5	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.61	28.26	38.5	PASS
Band66	20MHz	16QAM	132572	1RB#49	22.36	29.01	38.5	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.29	27.94	38.5	PASS
Band66	20MHz	16QAM	132572	50RB#0	20.37	27.02	38.5	PASS
Band66	20MHz	16QAM	132572	50RB#25	20.49	27.14	38.5	PASS
Band66	20MHz	16QAM	132572	50RB#50	20.49	27.14	38.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	20.56	27.21	38.5	PASS