



FCC REPORT

Report Reference No..... : TRE1711007802 R/C.....: 48346

FCC ID..... : 2AJWA-LTL-6511-4G

Applicant's name..... : Zhuhai Ltl Acorn Electronics Co., Ltd.

Address..... : 3F,Bldg. B,Kindly Medical Industrial Park, No. 288 Airport East Rd.,Sanzao Town,Jinwan Dist., Zhuhai, Guangdong, China.

Manufacturer..... : Zhuhai Ltl Acorn Electronics Co., Ltd.

Address..... : 3F,Bldg. B,Kindly Medical Industrial Park, No. 288 Airport East Rd.,Sanzao Town,Jinwan Dist., Zhuhai, Guangdong, China.

Test item description : Infrared Digital Scouting Camera

Trade Mark : LTL ACORN

Model/Type reference..... : Ltl-6511W-4G(EXT.LCD)

Listed Model(s)..... : Ltl-6511-4G(EXT.LCD)

Standard : FCC Part 22: PUBLIC MOBILE SERVICES
FCC Part 24: PERSONAL COMMUNICATIONS SERVICES
FCC Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

Date of receipt of test sample..... : Nov.14,2017

Date of testing..... : Nov.15,2017 - Nov.27, 2017

Date of issue..... : Nov.28, 2017

Result..... : Pass

Compiled by
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Edward Pan

Approved by
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Hans Hu

Testing Laboratory Name : Shenzhen Huatongwei International Inspection Co., Ltd.

Address..... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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1. Test standards and Report version

1.1. Applicable Standards

The tests were performed according to following standards:

[FCC Part 22](#):PRIVATE LAND MOBILE RADIO SERVICES.

[FCC Part 24](#):PUBLIC MOBILE SERVICES

[FCC Part 27](#):MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

[TIA/EIA 603 D June 2010](#):Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[FCC Part 2](#):FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

[971168 D01 Power Meas License Digital Systems v02r02](#):provides a methodology for fully characterizing the fundamental power of wideband (> 1 MHz) digitally modulated RF signals acceptable to the FCC for demonstrating compliance for licensed transmitters.

1.2. Report version

Version No.	Date of issue	Description
00	Nov.28, 2017	Original

2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer
RF Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass	William Wang
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b)	Pass	William Wang
Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	William Wang
Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	William Wang
ERP and EIRP	Part 22.913(a) Part 24.232(b)	Pass	William Wang
Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass	William Wang
Frequency stability vs. temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass	William Wang
Frequency stability vs. voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	Pass	William Wang
Peak-Average Ratio	Part 24.232 Part 27.50	Pass	William Wang

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Zhuhai Ltl Acorn Electronics Co., Ltd.
Address:	3F,Bldg. B,Kindly Medical Industrial Park, No. 288 Airport East Rd.,Sanzao Town,Jinwan Dist., Zhuhai, Guangdong, China.
Manufacturer:	Zhuhai Ltl Acorn Electronics Co., Ltd.
Address:	3F,Bldg. B,Kindly Medical Industrial Park, No. 288 Airport East Rd.,Sanzao Town,Jinwan Dist., Zhuhai, Guangdong, China.

3.2. Product Description

Name of EUT:	Infrared Digital Scouting Camera
Trade Mark:	LTL ACORN
Model No.:	Ltl-6511W-4G(EXT.LCD)
Listed Model(s):	Ltl-6511-4G(EXT.LCD)
IMEI 1:	014339000140166
Power supply:	DC 6.0V(4*AA size battery) or 6 x DC3.7V 18650 Lithium Battery
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.45A Output: 6Vd.c.,2A
Hardware version:	LTL-6511-4G-01
Software version:	T1.2.159D_170925a-E
RF Technical Description	
☒ FDD Band 2	
Operation Frequency:	Uplink:1850.7 MHz – 1909.3 MHz Downlink: 1930.7 MHz – 1989.3 MHz
Channel bandwidth:	☒ 1.4MHz ☒ 3MHz ☒ 5MHz ☒ 10MHz ☒ 15MHz ☒ 20MHz
☒ FDD Band 4	
Operation Frequency:	Uplink:1710.7 MHz – 1754.3 MHz Downlink: 2110.7 MHz – 2154.3 MHz
Channel bandwidth:	☒ 1.4MHz ☒ 3MHz ☒ 5MHz ☒ 10MHz ☒ 15MHz ☒ 20MHz
☒ FDD Band 5	
Operation Frequency:	Uplink:824.7 MHz – 848.3 MHz Downlink: 869.7 MHz – 893.3 MHz
Channel bandwidth:	☒ 1.4MHz ☒ 3MHz ☒ 5MHz ☒ 10MHz ☐ 15MHz ☐ 20MHz
☒ FDD Band 17	
Operation Frequency:	Uplink:706.5 MHz – 713.5 MHz Downlink: 736.5 MHz – 743.5 MHz
Channel bandwidth:	☐ 1.4MHz ☐ 3MHz ☒ 5MHz ☒ 10MHz ☐ 15MHz ☐ 20MHz
Power Class:	☐ Class 1 ☐ Class 2 ☒ Class 3 ☐ Class 4
Modulation type:	☒ QPSK ☒ 16QAM ☐ 64QAM
Antenna type	PIFA antenna
Antenna Gain	Band2:3dBi

	Band4:3dBi Band5:3dBi Band17:3dBi
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3.3. Operation state

➤ Test frequency list

FDD Band 2

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15 ^[1]	18675	1857.5	675	1937.5
	20 ^[1]	18700	1860	700	1940
Mid Range	1.4/3/5/10/15 ^[1] /20 ^[1]	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15 ^[1]	19125	1902.5	1125	1982.5
	20 ^[1]	19100	1900	1100	1980

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

FDD Band 4

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
High Range	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

FDD Band 5

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	20407	824.7	2407	869.7
	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
	10 ^[1]	20450	829	2450	874
Mid Range	1.4/3/5/10 ^[1]	20525	836.5	2525	881.5
High Range	1.4	20643	848.3	2643	893.3
	3	20635	847.5	2635	892.5
	5	20625	846.5	2625	891.5
	10 ^[1]	20600	844	2600	889

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

FDD Band 17

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5 ^[1]	23755	706.5	5755	736.5
	10 ^[1]	23780	709	5780	739
Mid Range	5 ^[1] /10 ^[1]	23790	710	5790	740
High Range	5 ^[1]	23825	713.5	5825	743.5
	10 ^[1]	23800	711	5800	741

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

3.4. EUT operation mode

For RF test items

The EUT has been tested under typical operating condition. Testing was performed by configuring EUT to maximum output power status.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v			v	v	v	v
	4	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v	-	-	v	v			v	v	v	v
	17	-	-	v	v	-	-	v	v			v	v	v	v
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v		v	v		v
	4	v	v	v	v	v	v	v	v	v		v	v		v
	5	v	v	v	v	-	-	v	v	v		v	v		v
	17	-	-	v	v	-	-	v	v	v		v	v		v
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v			v	v	v
E.R.P./ E.I.R.P.	2	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v			v	v	v
	17			v	v	-	-	v	v	v			v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v	-	-	v		v			v	v	v
	17			v	v	-	-	v		v			v	v	v
Frequency Stability	2						v	v	v			v		v	
	4						v	v	v			v		v	
	5				v			v	v			v		v	
	17				v			v	v			v		v	
Peak-to-Average Ratio	2						v	v	v	v		v	v	v	v
	4						v	v	v	v		v	v	v	v
	5				v			v	v	v		v	v	v	v
	17				v			v	v	v		v	v	v	v
Remark	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.														

3.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

		Manufacturer :	
		Model No. :	
		Manufacturer :	
		Model No. :	

3.6. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

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

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

RF Conducted						
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal. (mm/dd/yy)	Next Cal. (mm/dd/yy)
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	11/11/2017	11/11/2018
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	137688	10/26/2017	10/25/2018
3	Spectrum Analyzer	Rohde&Schwarz	FSW26	103440	11/11/2017	11/10/2018
4	MXA Signal Analyzer	Agilent Technologies	N9020A	MY5050187	11/10/2017	11/09/2018
5	Splitter	Mini-Circuit	ZAPD-4	400059	03/20/2017	03/19/2018
6	Climate Chamber	ESPEC	EL-10KA	05107008	11/10/2017	11/09/2018

RF Radiated						
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal. (mm/dd/yy)	Next Cal. (mm/dd/yy)
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	11/11/2017	11/11/2018
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	137688	10/26/2017	10/25/2018
3	Spectrum Analyzer	Rohde&Schwarz	FSW26	103440	11/11/2017	11/10/2018
4	HORNANTENNA	ShwarzBeck	9120D	1011	03/27/2017	03/26/2020
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	04/05/2017	04/04/2020
6	TURNTABLE	MATURO	TT2.0	----		N/A
7	ANTENNA MAST	MATURO	TAM-4.0-P	----		N/A
8	EMI Test Software	Audix	E3	N/A		N/A
9	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018
10	High pass filter	Compliance Direction systems	BSU-6	34202	11/21/2017	11/20/2018
11	Preamplifier	ShwarzBeck	BBV 9718	9718-248	10/18/2017	10/17/2018
12	Broadband Preamplifier	ShwarzBeck	BBV 9743	9743-0022	10/18/2017	10/17/2018
13	Signal Generator	Rohde&Schwarz	SMB100A	114360	06/13/2017	06/12/2018
14	Pre-amplifier	SCHWARZBECK	BBV 9742	N/A	11/22/2017	11/21/2018
15	Turntable	Maturo Germany	TT2.0-1T	/	N/A	N/A
16	Antenna Mast	Maturo Germany	CAM-4.0-P-12	/	N/A	N/A
17	Test Software	R&S	ES-K1	/	N/A	N/A
18	Loop Antenna	R&S	HFH2-Z2	100020	11/20/2017	11/19/2020
19	RF Connection Cable	HUBER+SUHNER	N/A	N/A	11/21/2017	11/20/2018
20	RF Connection Cable	HUBER+SUHNER	SUCOFLEX104	501184/4	11/21/2017	11/20/2018
21	RF Connection Cable	HUBER+SUHNER	MULTIFLEX 141	N/A	11/21/2017	11/20/2018
22	Spectrum Analyzer	R&S	FSP40	100597	11/11/2017	11/10/2018
23	RF Connection Cable	HUBER+SUHNER	3m 18GHz S Serisa	N/A	11/21/2017	11/20/2018
24	RF Connection Cable	HUBER+SUHNER	3m 3GHz S Serisa	N/A	11/21/2017	11/20/2018
25	RF Connection Cable	HUBER+SUHNER	3m 3GHz RG Serisa	N/A	11/21/2017	11/20/2018
26	RF Connection Cable	HUBER+SUHNER	6m 18GHz S Serisa	N/A	11/21/2017	11/20/2018

The calibration interval was one year.

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Condition	Temperature	15 °C to +35 °C
	Relative humidity	20 % to 75 %.
	Voltage	the equipment shall be the nominal voltage for which the equipment was designed.
Extreme Condition	Temperature	From -30° to + 50° centigrade
	Voltage	For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)
Emission Mask	-----	(1)
Modulation Characteristic	-----	(1)
Transmitter Frequency Behavior	-----	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

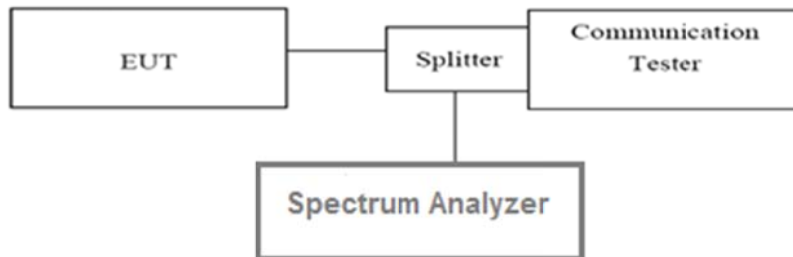
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

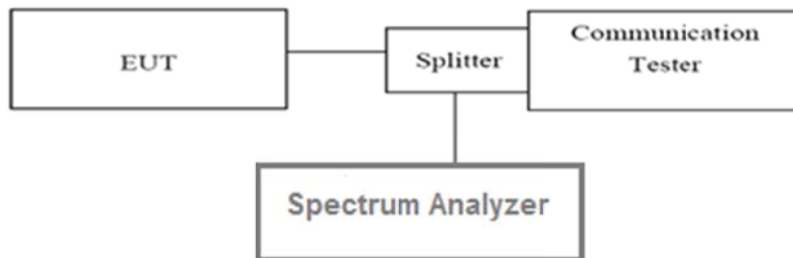
Reference Appendix A:

5.2. 99% & -26 dB Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Reference Appendix C:

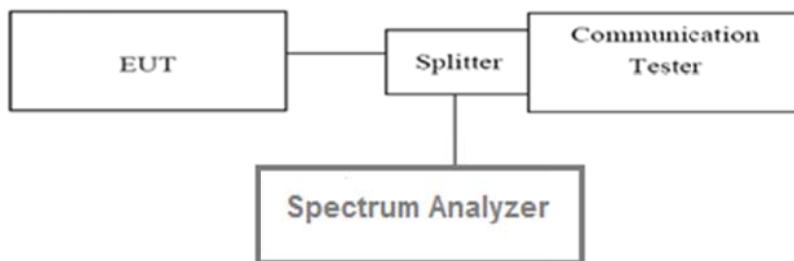
5.3. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 and Part 27.53 h(1) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.
3. For the out of band: Set the RBW= 1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Reference Appendix E:

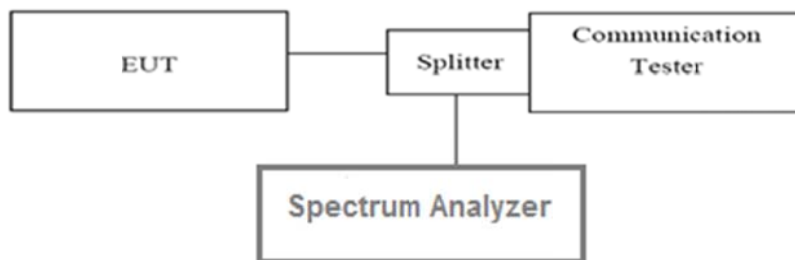
5.4. Band Edge

LIMIT

Part 24.238 and Part 22.917 and Part 27.53h(1) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

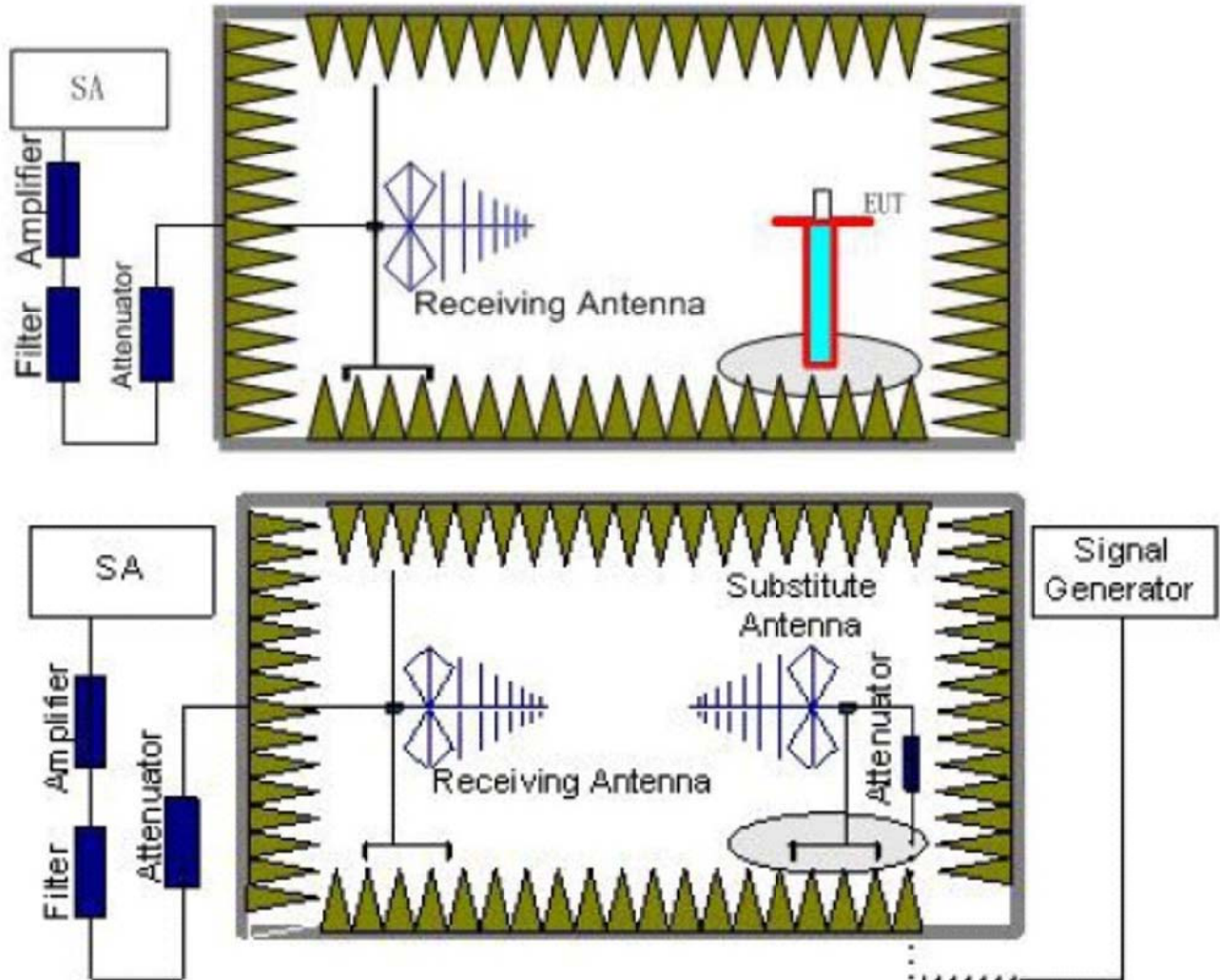
Reference Appendix D:

5.5. ERP AND EIRP

LIMIT

LTE Band 2: EIRP<2W ,LTE Band 4:EIRP<1W,LTE Band 5:ERP<7W, LTE Band 17:ERP<3W

TEST CONFIGURATION



TEST PROCEDURE

1. EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna shall be moved from 1m to 4m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz,, And the maximum value of the receiver should be recorded as (Pr).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the

substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
6. The measurement results are obtained as described below:
Power(EIRP)=PMea- PAg - Pcl + Ga
We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substitution test; The measurement results are amend as described below:
Power(EIRP)=PMea- Pcl + Ga
7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

LTE Band 2-1.4MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	21.06	18.50	33.00	PASS
	Mid	21.03	18.33		
	High	22.08	18.12		
16QAM	Low	18.35	15.88		PASS
	Mid	18.73	16.29		
	High	18.75	16.40		

LTE Band 2-3MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.09	17.95	33.00	PASS
	Mid	23.22	18.29		
	High	22.88	18.02		
16QAM	Low	17.58	16.34		PASS
	Mid	18.28	16.57		
	High	18.32	16.28		

LTE Band 2-5MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.31	18.99	33.00	PASS
	Mid	21.76	19.05		
	High	22.39	17.99		
16QAM	Low	18.25	17.37		PASS
	Mid	18.39	17.25		
	High	18.31	15.93		

LTE Band 2-10MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.09	18.21	33.00	PASS
	Mid	23.24	18.32		
	High	22.78	18.08		
16QAM	Low	17.86	16.25		PASS
	Mid	18.67	16.21		
	High	18.58	16.41		

LTE Band 2-15MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	21.16	19.59	33.00	PASS
	Mid	20.62	19.64		
	High	21.48	18.05		
16QAM	Low	17.52	17.25		PASS
	Mid	17.17	21.50		
	High	17.33	16.30		

LTE Band 2-20MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	21.42	18.11	33.00	PASS
	Mid	22.10	18.56		
	High	21.87	18.14		
16QAM	Low	17.12	17.16		PASS
	Mid	18.03	17.66		
	High	18.14	17.32		

LTE Band 4-1.4MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.58	20.36	30.00	PASS
	Mid	22.93	20.45		
	High	23.73	19.99		
16QAM	Low	19.24	19.03		PASS
	Mid	19.63	18.94		
	High	19.58	19.08		

LTE Band 4-3MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	21.54	19.25	30.00	PASS
	Mid	21.38	19.47		
	High	21.06	19.36		
16QAM	Low	19.78	18.88		PASS
	Mid	18.75	18.80		
	High	21.88	19.93		

LTE Band 4-5MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.30	21.21	30.00	PASS
	Mid	22.67	20.22		
	High	23.34	19.96		
16QAM	Low	19.32	19.38		PASS
	Mid	19.75	18.47		
	High	19.34	18.53		

LTE Band 4-10MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	23.08	20.88	30.00	PASS
	Mid	22.60	19.98		
	High	21.99	20.16		
16QAM	Low	20.59	19.25		PASS
	Mid	20.94	18.24		
	High	20.25	18.48		

LTE Band 4-15MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	21.80	18.80	30.00	PASS
	Mid	21.51	19.32		
	High	22.59	19.25		
16QAM	Low	18.25	17.03		PASS
	Mid	18.48	17.19		
	High	18.73	17.68		

LTE Band 4-20MHz					
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.38	18.94	30.00	PASS
	Mid	23.66	20.01		
	High	23.50	19.81		
16QAM	Low	17.94	16.94		PASS
	Mid	17.06	17.49		
	High	17.40	17.71		

LTE Band 5-1.4MHz					
Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.42	22.29	38.50	PASS
	Mid	22.95	21.46		
	High	22.91	21.91		
16QAM	Low	19.77	18.89		PASS
	Mid	19.74	19.18		
	High	19.81	19.04		

LTE Band 5-3MHz					
Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	23.24	20.65	38.50	PASS
	Mid	24.45	20.98		
	High	24.14	20.99		
16QAM	Low	18.58	19.62		PASS
	Mid	18.93	19.02		
	High	19.05	18.96		

LTE Band 5-5MHz					
Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	23.00	20.88	38.50	PASS
	Mid	23.28	19.73		
	High	23.18	19.39		
16QAM	Low	20.50	19.55		PASS
	Mid	20.73	18.01		
	High	20.61	17.90		

LTE Band 5-10MHz					
Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.39	20.73	38.50	PASS
	Mid	22.70	19.90		
	High	22.21	19.60		
16QAM	Low	19.92	18.46		PASS
	Mid	20.34	17.99		
	High	20.15	17.69		

LTE Band 17-5MHz					
Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	21.43	19.86	34.8	PASS
	Mid	21.77	19.68		
	High	23.13	20.04		
16QAM	Low	18.13	17.19		PASS
	Mid	18.69	17.56		
	High	18.81	17.46		

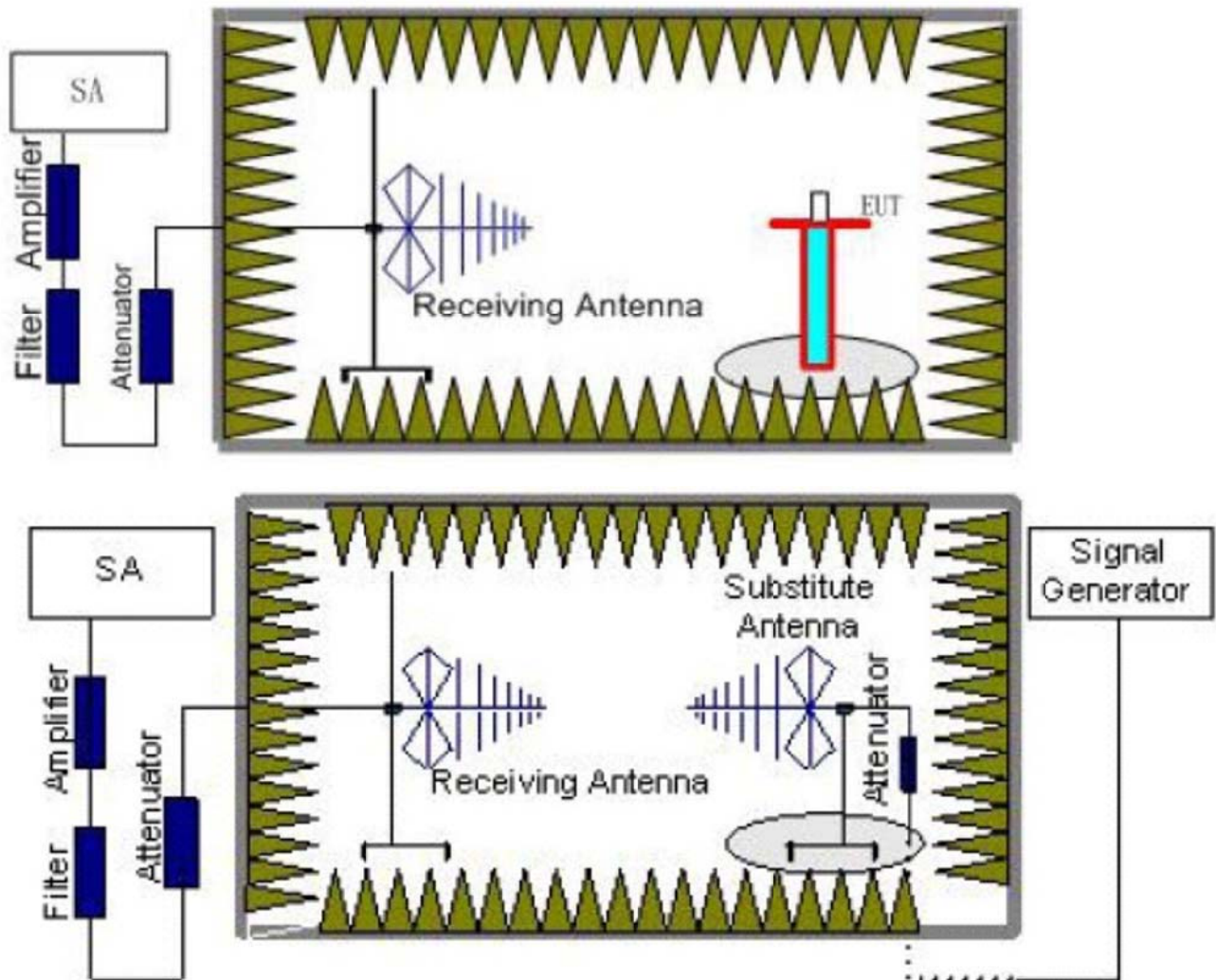
LTE Band 17-10MHz					
Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
		Vertical	Horizontal		
QPSK	Low	22.19	19.41	34.8	PASS
	Mid	23.82	19.35		
	High	23.54	19.06		
16QAM	Low	17.72	17.92		PASS
	Mid	19.50	17.67		
	High	19.57	17.59		

5.6. Radiated Spurious Emission

LIMIT

LTE Band 2/4/5/17: <-13dBm

TEST CONFIGURATION



TEST RESULTS

1. EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna shall be moved from 1m to 4m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (Pr).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the

substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
6. The measurement results are obtained as described below:
Power(EIRP)=PMea- PAg - Pcl + Ga
We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substitution test; The measurement results are amend as described below:
Power(EIRP)=PMea- Pcl + Ga
7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

LTE Band 2-1.4MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3701.4	Vertical	-37.80	-13.00	Pass
	5552.1	V	-38.99		
	7402.8	V	---		
	3701.4	Horizontal	-38.53	-13.00	Pass
	5552.1	H	-42.56		
	7402.8	H	---		
Mid	3760	Vertical	-36.18	-13.00	Pass
	5640	V	-39.32		
	7520	V	---		
	3760	Horizontal	-38.18	-13.00	Pass
	5640	H	-42.21		
	7520	H	---		
High	3818.6	Vertical	-36.79	-13.00	Pass
	5727.9	V	-39.88		
	7637.2	V	---		
	3818.6	Horizontal	-38.36	-13.00	Pass
	5727.9	H	-42.03		
	7637.2	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 2-3MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3703	Vertical	-39.32	-13.00	Pass
	5554.5	V	-37.76		
	7406	V	---		
	3703	Horizontal	-44.92	-13.00	Pass
	5554.5	H	-36.60		
	7406	H	---		
Mid	3760	Vertical	-43.99	-13.00	Pass
	5640	V	-32.89		
	7520	V	---		
	3760	Horizontal	-43.54	-13.00	Pass
	5640	H	-31.21		
	7520	H	---		
High	3817	Vertical	-46.43	-13.00	Pass
	5725.5	V	-31.76		
	7634	V	---		
	3817	Horizontal	-42.16	-13.00	Pass
	5725.5	H	-30.88		
	7634	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 2-5MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3705	Vertical	-43.27	-13.00	Pass
	5557.5	V	-37.93		
	7410	V	---		
	3705	Horizontal	-42.48	-13.00	Pass
	5557.5	H	-38.10		
	7410	H	---		
Mid	3760	Vertical	-42.61	-13.00	Pass
	5640	V	-38.62		
	7520	V	---		
	3760	Horizontal	-42.09	-13.00	Pass
	5640	H	-37.09		
	7520	H	---		
High	3815	Vertical	-44.73	-13.00	Pass
	5722.5	V	-37.59		
	7630	V	---		
	3815	Horizontal	-45.29	-13.00	Pass
	5722.5	H	-37.71		
	7630	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 2-10MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3710	Vertical	-42.71	-13.00	Pass
	5565	V	-38.23		
	7420	V	---		
	3710	Horizontal	-41.36	-13.00	Pass
	5565	H	-38.51		
	7420	H	---		
Mid	3760	Vertical	-41.59	-13.00	Pass
	5640	V	-39.40		
	7520	V	---		
	3760	Horizontal	-40.69	-13.00	Pass
	5640	H	-37.79		
	7520	H	---		
High	3810	Vertical	-43.47	-13.00	Pass
	5715	V	-38.32		
	7620	V	---		
	3810	Horizontal	-42.71	-13.00	Pass
	5715	H	-38.17		
	7620	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 2-15MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3715	Vertical	-41.76	-13.00	Pass
	5572.5	V	-38.62		
	7430	V	---		
	3715	Horizontal	-39.98	-13.00	Pass
	5572.5	H	-38.99		
	7430	H	---		
Mid	3760	Vertical	-40.27	-13.00	Pass
	5640	V	-40.17		
	7520	V	---		
	3760	Horizontal	-39.09	-13.00	Pass
	5640	H	-38.50		
	7520	H	---		
High	3805	Vertical	-41.98	-13.00	Pass
	5707.5	V	-39.05		
	7610	V	---		
	3805	Horizontal	-42.23	-13.00	Pass
	5707.5	H	-39.10		
	7610	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 2-20MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3720	Vertical	-40.50	-13.00	Pass
	5580	V	-39.06		
	7440	V	---		
	3720	Horizontal	-38.49	-13.00	Pass
	5580	H	-39.48		
	7440	H	---		
Mid	3760	Vertical	-38.82	-13.00	Pass
	5640	V	-40.81		
	7520	V	---		
	3760	Horizontal	-37.49	-13.00	Pass
	5640	H	-39.05		
	7520	H	---		
High	3800	Vertical	-40.53	-13.00	Pass
	5700	V	-39.63		
	7600	V	---		
	3800	Horizontal	-41.95	-13.00	Pass
	5700	H	-39.92		
	7600	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 4-1.4MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3421.4	Vertical	-36.85	-13.00	Pass
	5132.1	V	-39.53		
	6842.8	V	---		
	3421.4	Horizontal	-38.86	-13.00	Pass
	5132.1	H	-41.57		
	6842.8	H	---		
Mid	3465	Vertical	-37.22	-13.00	Pass
	5197.5	V	-39.18		
	6930	V	---		
	3465	Horizontal	-38.41	-13.00	Pass
	5197.5	H	-41.20		
	6930	H	---		
High	3508.6	Vertical	-37.80	-13.00	Pass
	5262.9	V	-39.76		
	7017.2	V	---		
	3508.6	Horizontal	-38.60	-13.00	Pass
	5262.9	H	-41.39		
	7017.2	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 4-3MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3423	Vertical	-38.44	-13.00	Pass
	5134.5	V	-38.11		
	6846	V	---		
	3423	Horizontal	-36.99	-13.00	Pass
	5134.5	H	-40.24		
	6846	H	---		
Mid	3465	Vertical	-39.51	-13.00	Pass
	5197.5	V	-39.11		
	6930	V	---		
	3465	Horizontal	-36.49	-13.00	Pass
	5197.5	H	-40.64		
	6930	H	---		
High	3507	Vertical	-40.21	-13.00	Pass
	5260.5	V	-38.48		
	7014	V	---		
	3507	Horizontal	-35.41	-13.00	Pass
	5260.5	H	-41.65		
	7014	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 4-5MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3425	Vertical	-42.99	-13.00	Pass
	5137.5	V	-38.29		
	6850	V	---		
	3425	Horizontal	-35.59	-13.00	Pass
	5137.5	H	-41.81		
	6850	H	---		
Mid	3465	Vertical	-42.86	-13.00	Pass
	5197.5	V	-38.16		
	6930	V	-		
	3465	Horizontal	-36.04	-13.00	Pass
	5197.5	H	-42.18		
	6930	H	---		
High	3505	Vertical	-42.23	-13.00	Pass
	5257.5	V	-37.59		
	7010	V	-		
	3505	Horizontal	-36.16	-13.00	Pass
	5257.5	H	-42.30		
	7010	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 4-10MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3430	Vertical	-42.44	-13.00	Pass
	5145	V	-38.58		
	6860	V	---		
	3430	Horizontal	-35.74	-13.00	Pass
	5145	H	-41.94		
	6860	H	---		
Mid	3465	Vertical	-42.66	-13.00	Pass
	5197.5	V	-38.79		
	6930	V	---		
	3465	Horizontal	-35.29	-13.00	Pass
	5197.5	H	-41.58		
	6930	H	-		
High	3500	Vertical	-43.28	-13.00	Pass
	5250	V	-39.36		
	7000	V	-		
	3500	Horizontal	-35.13	-13.00	Pass
	5250	H	-41.42		
	7000	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 4-15MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3435	Vertical	-41.48	-13.00	Pass
	5152.5	V	-38.97		
	6870	V	---		
	3435	Horizontal	-35.52	-13.00	Pass
	5152.5	H	-41.05		
	6870	H	---		
Mid	3465	Vertical	-41.78	-13.00	Pass
	5197.5	V	-39.25		
	6930	V	---		
	3465	Horizontal	-35.94	-13.00	Pass
	5197.5	H	-41.40		
	6930	H	---		
High	3495	Vertical	-41.19	-13.00	Pass
	5242.5	V	-38.71		
	6990	V	---		
	3495	Horizontal	-35.89	-13.00	Pass
	5242.5	H	-41.35		
	6990	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 4-20MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	3440	Vertical	-40.23	-13.00	Pass
	5160	V	-39.16		
	6880	V	---		
	3440	Horizontal	-35.47	-13.00	Pass
	5160	H	-41.70		
	6880	H	---		
Mid	3465	Vertical	-39.91	-13.00	Pass
	5197.5	V	-39.62		
	6930	V	---		
	3465	Horizontal	-35.93	-13.00	Pass
	5197.5	H	-41.32		
	6930	H	---		
High	3490	Vertical	-39.27	-13.00	Pass
	5235	V	-41.11		
	6980	V	---		
	3490	Horizontal	-35.16	-13.00	Pass
	5235	H	-41.40		
	6980	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 5-1.4MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	1649.4	Vertical	-38.38	-13.00	Pass
	2474.1	V	-43.72		
	3298.8	V	---		
	1649.4	Horizontal	-37.79	-13.00	Pass
	2474.1	H	-42.63		
	3298.8	H	---		
Mid	1673	Vertical	-38.82	-13.00	Pass
	2509.5	V	-44.13		
	3346	V	---		
	1673	Horizontal	-38.24	-13.00	Pass
	2509.5	H	-43.00		
	3346	H	---		
High	1696.6	Vertical	-38.19	-13.00	Pass
	2544.9	V	-43.56		
	3393.2	V	-		
	1696.6	Horizontal	-38.59	-13.00	Pass
	2544.9	H	-43.32		
	3393.2	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 5-3MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	1651	Vertical	-38.73	-13.00	Pass
	2476.5	V	-43.37		
	3302	V	---		
	1651	Horizontal	-39.27	-13.00	Pass
	2476.5	H	-42.96		
	3302	H	---		
Mid	1673	Vertical	-39.91	-13.00	Pass
	2509.5	V	-44.42		
	3346	V	---		
	1673	Horizontal	-39.03	-13.00	Pass
	2509.5	H	-43.15		
	3346	H	---		
High	1695	Vertical	-40.75	-13.00	Pass
	2542.5	V	-45.82		
	3390	V	---		
	1695	Horizontal	-40.43	-13.00	Pass
	2542.5	H	-44.48		
	3390	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 5-5MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	1653	Vertical	-38.89	-13.00	Pass
	2479.5	V	-43.21		
	3306	V	---		
	1653	Horizontal	-39.96	-13.00	Pass
	2479.5	H	-43.11		
	3306	H	---		
Mid	1673	Vertical	-39.44	-13.00	Pass
	2509.5	V	-43.70		
	3346	V	---		
	1673	Horizontal	-39.56	-13.00	Pass
	2509.5	H	-45.08		
	3346	H	---		
High	1693	Vertical	-40.82	-13.00	Pass
	2539.5	V	-45.98		
	3386	V	---		
	1693	Horizontal	-40.76	-13.00	Pass
	2539.5	H	-46.21		
	3386	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 5-10MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	1658	Vertical	-39.27	-13.00	Pass
	2487	V	-42.83		
	3316	V	---		
	1658	Horizontal	-41.58	-13.00	Pass
	2487	H	-43.46		
	3316	H	---		
Mid	1673	Vertical	-40.56	-13.00	Pass
	2509.5	V	-43.98		
	3346	V	---		
	1673	Horizontal	-39.99	-13.00	Pass
	2509.5	H	-43.18		
	3346	H	---		
High	1688	Vertical	-40.07	-13.00	Pass
	2532	V	-44.42		
	3376	V	-		
	1688	Horizontal	-39.79	-13.00	Pass
	2532	H	-43.37		
	3376	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 17-5MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	1413	Vertical	-38.84	-13.00	Pass
	2119.5	V	-42.88		
	2826	V	---		
	1413	Horizontal	-39.79	-13.00	Pass
	2119.5	H	-46.28		
	2826	H	---		
Mid	1420	Vertical	-38.84	-13.00	Pass
	2130	V	-42.88		
	2840	V	---		
	1420	Horizontal	-38.41	-13.00	Pass
	2130	H	-43.94		
	2840	H	---		
High	1427	Vertical	-39.90	-13.00	Pass
	2140.5	V	-44.64		
	2854	V	---		
	1427	Horizontal	-37.70	-13.00	Pass
	2140.5	H	-44.78		
	2854	H	---		

Remark:

1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

LTE Band 17-10MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	1418	Vertical	-39.10	-13.00	Pass
	2127	V	-42.62		
	2836	V	---		
	1418	Horizontal	-40.91	-13.00	Pass
	2127	H	-46.53		
	2836	H	---		
Mid	1420	Vertical	-40.00	-13.00	Pass
	2130	V	-43.41		
	2840	V	---		
	1420	Horizontal	-39.06	-13.00	Pass
	2130	H	-44.84		
	2840	H	---		
High	1422	Vertical	-41.43	-13.00	Pass
	2133	V	-45.77		
	2844	V	---		
	1422	Horizontal	-37.78	-13.00	Pass
	2133	H	-46.04		
	2844	H	---		

Remark:

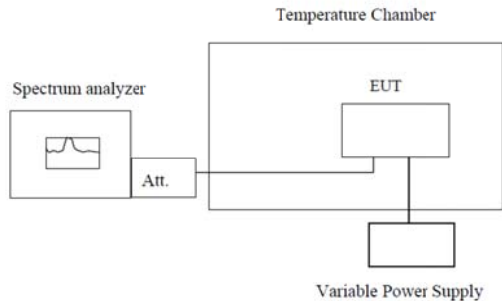
1. Remark"---" means that the emission level is too low to be measured
2. The emission levels of below 1 GHz are very lower than the limit and not show in test report

5.7. Frequency stability V.S. Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



Note : Measurement setup for testing on Antenna connector

TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
3. The EUT was placed inside the temperature chamber.
4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

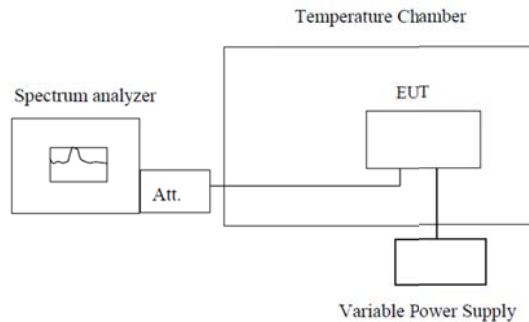
Reference Appendix F:

5.8. Frequency stability V.S. Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



Note : Measurement setup for testing on Antenna connector

TEST PROCEDURE

1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.
2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and record the frequency.
3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

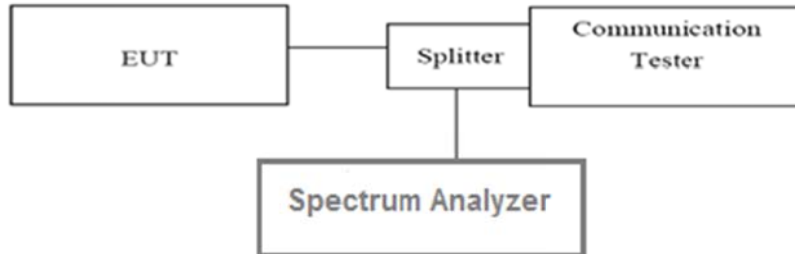
Reference Appendix F:

5.9. Peak-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

According with KDB 971168

1. The signal analyzer' s CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal " RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the " on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

TEST MODE:

Please refer to the clause 3.3

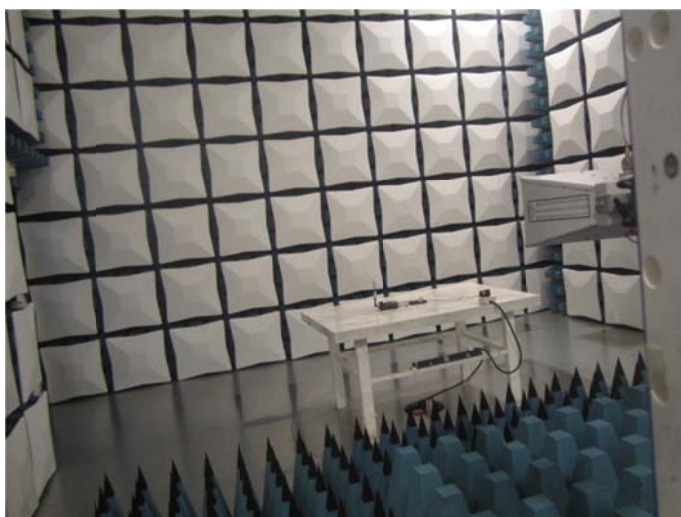
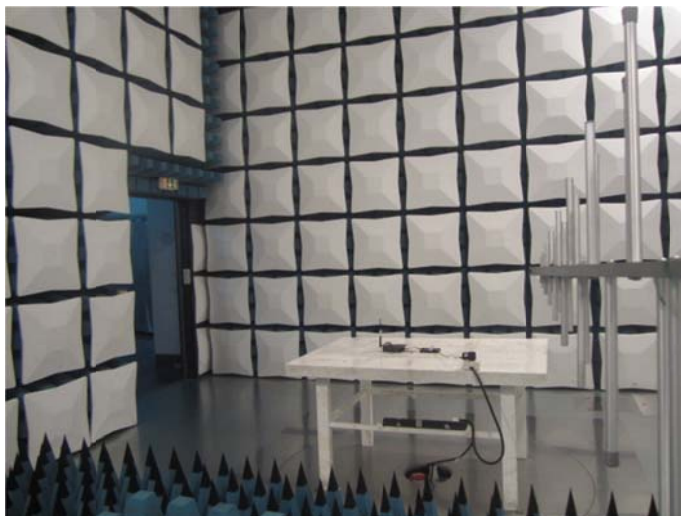
TEST RESULTS

☒ Passed ☐ Not Applicable

Reference Appendix B:

6. Test Setup Photos of the EUT

Radiated emission:



7. External and Internal Photos of the EUT

Reference to the test report No.: TRE1711007801.

.....End of Report.....

Appendix A: Conducted Output Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.48	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.41	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.56	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.68	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	23.62	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	23.63	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.69	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.88	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.81	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.93	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	24.02	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	24.03	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	24.02	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	23.08	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	24.89	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	24.80	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	24.99	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	24.97	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	25.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	25.01	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	24.07	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.99	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.89	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	23.04	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.79	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	22.78	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	22.84	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.64	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	23.10	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	23.05	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	23.17	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	23.09	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	23.10	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	23.18	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	22.18	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	24.02	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	23.95	PASS

Band2	1.4MHz	16QAM	19193	1RB#5	24.09	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	24.15	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	24.14	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	24.12	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	22.99	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.86	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.86	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.87	PASS
Band2	3MHz	QPSK	18615	8RB#0	23.06	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.98	PASS
Band2	3MHz	QPSK	18615	8RB#7	23.01	PASS
Band2	3MHz	QPSK	18615	15RB#0	23.02	PASS
Band2	3MHz	QPSK	18900	1RB#0	24.22	PASS
Band2	3MHz	QPSK	18900	1RB#8	24.20	PASS
Band2	3MHz	QPSK	18900	1RB#14	24.26	PASS
Band2	3MHz	QPSK	18900	8RB#0	23.35	PASS
Band2	3MHz	QPSK	18900	8RB#4	23.35	PASS
Band2	3MHz	QPSK	18900	8RB#7	23.38	PASS
Band2	3MHz	QPSK	18900	15RB#0	23.32	PASS
Band2	3MHz	QPSK	19185	1RB#0	25.19	PASS
Band2	3MHz	QPSK	19185	1RB#8	25.21	PASS
Band2	3MHz	QPSK	19185	1RB#14	25.31	PASS
Band2	3MHz	QPSK	19185	8RB#0	24.40	PASS
Band2	3MHz	QPSK	19185	8RB#4	24.40	PASS
Band2	3MHz	QPSK	19185	8RB#7	24.43	PASS
Band2	3MHz	QPSK	19185	15RB#0	24.40	PASS
Band2	3MHz	16QAM	18615	1RB#0	23.16	PASS
Band2	3MHz	16QAM	18615	1RB#8	23.10	PASS
Band2	3MHz	16QAM	18615	1RB#14	23.13	PASS
Band2	3MHz	16QAM	18615	8RB#0	22.08	PASS
Band2	3MHz	16QAM	18615	8RB#4	22.11	PASS
Band2	3MHz	16QAM	18615	8RB#7	22.10	PASS
Band2	3MHz	16QAM	18615	15RB#0	22.02	PASS
Band2	3MHz	16QAM	18900	1RB#0	23.51	PASS
Band2	3MHz	16QAM	18900	1RB#8	23.52	PASS
Band2	3MHz	16QAM	18900	1RB#14	23.60	PASS
Band2	3MHz	16QAM	18900	8RB#0	22.36	PASS
Band2	3MHz	16QAM	18900	8RB#4	22.35	PASS
Band2	3MHz	16QAM	18900	8RB#7	22.40	PASS
Band2	3MHz	16QAM	18900	15RB#0	22.37	PASS
Band2	3MHz	16QAM	19185	1RB#0	24.34	PASS
Band2	3MHz	16QAM	19185	1RB#8	24.39	PASS
Band2	3MHz	16QAM	19185	1RB#14	24.47	PASS

Band2	3MHz	16QAM	19185	8RB#0	23.31	PASS
Band2	3MHz	16QAM	19185	8RB#4	23.34	PASS
Band2	3MHz	16QAM	19185	8RB#7	23.36	PASS
Band2	3MHz	16QAM	19185	15RB#0	23.38	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.95	PASS
Band2	5MHz	QPSK	18625	1RB#12	24.06	PASS
Band2	5MHz	QPSK	18625	1RB#24	24.01	PASS
Band2	5MHz	QPSK	18625	12RB#0	22.98	PASS
Band2	5MHz	QPSK	18625	12RB#6	22.98	PASS
Band2	5MHz	QPSK	18625	12RB#13	23.04	PASS
Band2	5MHz	QPSK	18625	25RB#0	23.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	24.23	PASS
Band2	5MHz	QPSK	18900	1RB#12	24.33	PASS
Band2	5MHz	QPSK	18900	1RB#24	24.28	PASS
Band2	5MHz	QPSK	18900	12RB#0	23.28	PASS
Band2	5MHz	QPSK	18900	12RB#6	23.33	PASS
Band2	5MHz	QPSK	18900	12RB#13	23.31	PASS
Band2	5MHz	QPSK	18900	25RB#0	23.32	PASS
Band2	5MHz	QPSK	19175	1RB#0	25.17	PASS
Band2	5MHz	QPSK	19175	1RB#12	25.31	PASS
Band2	5MHz	QPSK	19175	1RB#24	25.30	PASS
Band2	5MHz	QPSK	19175	12RB#0	24.27	PASS
Band2	5MHz	QPSK	19175	12RB#6	24.29	PASS
Band2	5MHz	QPSK	19175	12RB#13	24.31	PASS
Band2	5MHz	QPSK	19175	25RB#0	24.29	PASS
Band2	5MHz	16QAM	18625	1RB#0	23.09	PASS
Band2	5MHz	16QAM	18625	1RB#12	23.21	PASS
Band2	5MHz	16QAM	18625	1RB#24	23.17	PASS
Band2	5MHz	16QAM	18625	12RB#0	21.95	PASS
Band2	5MHz	16QAM	18625	12RB#6	22.01	PASS
Band2	5MHz	16QAM	18625	12RB#13	22.07	PASS
Band2	5MHz	16QAM	18625	25RB#0	22.07	PASS
Band2	5MHz	16QAM	18900	1RB#0	23.37	PASS
Band2	5MHz	16QAM	18900	1RB#12	23.52	PASS
Band2	5MHz	16QAM	18900	1RB#24	23.51	PASS
Band2	5MHz	16QAM	18900	12RB#0	22.35	PASS
Band2	5MHz	16QAM	18900	12RB#6	22.39	PASS
Band2	5MHz	16QAM	18900	12RB#13	22.39	PASS
Band2	5MHz	16QAM	18900	25RB#0	22.35	PASS
Band2	5MHz	16QAM	19175	1RB#0	24.24	PASS
Band2	5MHz	16QAM	19175	1RB#12	24.43	PASS
Band2	5MHz	16QAM	19175	1RB#24	24.48	PASS
Band2	5MHz	16QAM	19175	12RB#0	23.36	PASS

Band2	5MHz	16QAM	19175	12RB#6	23.38	PASS
Band2	5MHz	16QAM	19175	12RB#13	23.40	PASS
Band2	5MHz	16QAM	19175	25RB#0	23.31	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.89	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.98	PASS
Band2	10MHz	QPSK	18650	1RB#49	24.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	22.86	PASS
Band2	10MHz	QPSK	18650	25RB#12	22.96	PASS
Band2	10MHz	QPSK	18650	25RB#25	23.06	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.97	PASS
Band2	10MHz	QPSK	18900	1RB#0	24.18	PASS
Band2	10MHz	QPSK	18900	1RB#24	24.27	PASS
Band2	10MHz	QPSK	18900	1RB#49	24.39	PASS
Band2	10MHz	QPSK	18900	25RB#0	23.22	PASS
Band2	10MHz	QPSK	18900	25RB#12	23.26	PASS
Band2	10MHz	QPSK	18900	25RB#25	23.27	PASS
Band2	10MHz	QPSK	18900	50RB#0	23.23	PASS
Band2	10MHz	QPSK	19150	1RB#0	24.93	PASS
Band2	10MHz	QPSK	19150	1RB#24	25.12	PASS
Band2	10MHz	QPSK	19150	1RB#49	25.33	PASS
Band2	10MHz	QPSK	19150	25RB#0	24.08	PASS
Band2	10MHz	QPSK	19150	25RB#12	24.15	PASS
Band2	10MHz	QPSK	19150	25RB#25	24.14	PASS
Band2	10MHz	QPSK	19150	50RB#0	24.15	PASS
Band2	10MHz	16QAM	18650	1RB#0	23.31	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.36	PASS
Band2	10MHz	16QAM	18650	1RB#49	23.36	PASS
Band2	10MHz	16QAM	18650	25RB#0	21.93	PASS
Band2	10MHz	16QAM	18650	25RB#12	22.04	PASS
Band2	10MHz	16QAM	18650	25RB#25	22.13	PASS
Band2	10MHz	16QAM	18650	50RB#0	22.07	PASS
Band2	10MHz	16QAM	18900	1RB#0	23.34	PASS
Band2	10MHz	16QAM	18900	1RB#24	23.49	PASS
Band2	10MHz	16QAM	18900	1RB#49	23.63	PASS
Band2	10MHz	16QAM	18900	25RB#0	22.25	PASS
Band2	10MHz	16QAM	18900	25RB#12	22.30	PASS
Band2	10MHz	16QAM	18900	25RB#25	22.30	PASS
Band2	10MHz	16QAM	18900	50RB#0	22.28	PASS
Band2	10MHz	16QAM	19150	1RB#0	24.11	PASS
Band2	10MHz	16QAM	19150	1RB#24	24.25	PASS
Band2	10MHz	16QAM	19150	1RB#49	24.51	PASS
Band2	10MHz	16QAM	19150	25RB#0	23.05	PASS
Band2	10MHz	16QAM	19150	25RB#12	23.12	PASS

Band2	10MHz	16QAM	19150	25RB#25	23.14	PASS
Band2	10MHz	16QAM	19150	50RB#0	23.13	PASS
Band2	15MHz	QPSK	18675	1RB#0	24.05	PASS
Band2	15MHz	QPSK	18675	1RB#38	24.04	PASS
Band2	15MHz	QPSK	18675	1RB#74	24.07	PASS
Band2	15MHz	QPSK	18675	38RB#0	22.98	PASS
Band2	15MHz	QPSK	18675	38RB#18	23.05	PASS
Band2	15MHz	QPSK	18675	38RB#37	23.12	PASS
Band2	15MHz	QPSK	18675	75RB#0	23.07	PASS
Band2	15MHz	QPSK	18900	1RB#0	24.32	PASS
Band2	15MHz	QPSK	18900	1RB#38	24.34	PASS
Band2	15MHz	QPSK	18900	1RB#74	24.40	PASS
Band2	15MHz	QPSK	18900	38RB#0	23.35	PASS
Band2	15MHz	QPSK	18900	38RB#18	23.41	PASS
Band2	15MHz	QPSK	18900	38RB#37	23.41	PASS
Band2	15MHz	QPSK	18900	75RB#0	23.41	PASS
Band2	15MHz	QPSK	19125	1RB#0	24.85	PASS
Band2	15MHz	QPSK	19125	1RB#38	25.08	PASS
Band2	15MHz	QPSK	19125	1RB#74	25.32	PASS
Band2	15MHz	QPSK	19125	38RB#0	24.07	PASS
Band2	15MHz	QPSK	19125	38RB#18	24.22	PASS
Band2	15MHz	QPSK	19125	38RB#37	24.25	PASS
Band2	15MHz	QPSK	19125	75RB#0	24.18	PASS
Band2	15MHz	16QAM	18675	1RB#0	23.29	PASS
Band2	15MHz	16QAM	18675	1RB#38	23.30	PASS
Band2	15MHz	16QAM	18675	1RB#74	23.26	PASS
Band2	15MHz	16QAM	18675	38RB#0	22.02	PASS
Band2	15MHz	16QAM	18675	38RB#18	22.09	PASS
Band2	15MHz	16QAM	18675	38RB#37	22.11	PASS
Band2	15MHz	16QAM	18675	75RB#0	22.08	PASS
Band2	15MHz	16QAM	18900	1RB#0	23.38	PASS
Band2	15MHz	16QAM	18900	1RB#38	23.48	PASS
Band2	15MHz	16QAM	18900	1RB#74	23.64	PASS
Band2	15MHz	16QAM	18900	38RB#0	22.27	PASS
Band2	15MHz	16QAM	18900	38RB#18	22.36	PASS
Band2	15MHz	16QAM	18900	38RB#37	22.38	PASS
Band2	15MHz	16QAM	18900	75RB#0	22.37	PASS
Band2	15MHz	16QAM	19125	1RB#0	23.99	PASS
Band2	15MHz	16QAM	19125	1RB#38	24.18	PASS
Band2	15MHz	16QAM	19125	1RB#74	24.51	PASS
Band2	15MHz	16QAM	19125	38RB#0	22.99	PASS
Band2	15MHz	16QAM	19125	38RB#18	23.09	PASS
Band2	15MHz	16QAM	19125	38RB#37	23.15	PASS

Band2	15MHz	16QAM	19125	75RB#0	23.09	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.99	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.95	PASS
Band2	20MHz	QPSK	18700	1RB#99	24.12	PASS
Band2	20MHz	QPSK	18700	50RB#0	22.84	PASS
Band2	20MHz	QPSK	18700	50RB#25	22.99	PASS
Band2	20MHz	QPSK	18700	50RB#50	23.12	PASS
Band2	20MHz	QPSK	18700	100RB#0	23.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	24.35	PASS
Band2	20MHz	QPSK	18900	1RB#49	24.46	PASS
Band2	20MHz	QPSK	18900	1RB#99	24.61	PASS
Band2	20MHz	QPSK	18900	50RB#0	23.25	PASS
Band2	20MHz	QPSK	18900	50RB#25	23.30	PASS
Band2	20MHz	QPSK	18900	50RB#50	23.37	PASS
Band2	20MHz	QPSK	18900	100RB#0	23.33	PASS
Band2	20MHz	QPSK	19100	1RB#0	24.70	PASS
Band2	20MHz	QPSK	19100	1RB#49	25.12	PASS
Band2	20MHz	QPSK	19100	1RB#99	25.48	PASS
Band2	20MHz	QPSK	19100	50RB#0	23.72	PASS
Band2	20MHz	QPSK	19100	50RB#25	23.98	PASS
Band2	20MHz	QPSK	19100	50RB#50	24.01	PASS
Band2	20MHz	QPSK	19100	100RB#0	23.88	PASS
Band2	20MHz	16QAM	18700	1RB#0	23.27	PASS
Band2	20MHz	16QAM	18700	1RB#49	23.20	PASS
Band2	20MHz	16QAM	18700	1RB#99	23.22	PASS
Band2	20MHz	16QAM	18700	50RB#0	21.88	PASS
Band2	20MHz	16QAM	18700	50RB#25	22.02	PASS
Band2	20MHz	16QAM	18700	50RB#50	22.14	PASS
Band2	20MHz	16QAM	18700	100RB#0	22.04	PASS
Band2	20MHz	16QAM	18900	1RB#0	23.45	PASS
Band2	20MHz	16QAM	18900	1RB#49	23.51	PASS
Band2	20MHz	16QAM	18900	1RB#99	23.76	PASS
Band2	20MHz	16QAM	18900	50RB#0	22.27	PASS
Band2	20MHz	16QAM	18900	50RB#25	22.31	PASS
Band2	20MHz	16QAM	18900	50RB#50	22.38	PASS
Band2	20MHz	16QAM	18900	100RB#0	22.32	PASS
Band2	20MHz	16QAM	19100	1RB#0	24.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	24.24	PASS
Band2	20MHz	16QAM	19100	1RB#99	24.73	PASS
Band2	20MHz	16QAM	19100	50RB#0	22.79	PASS
Band2	20MHz	16QAM	19100	50RB#25	23.03	PASS
Band2	20MHz	16QAM	19100	50RB#50	23.03	PASS
Band2	20MHz	16QAM	19100	100RB#0	22.87	PASS

Band4	1.4MHz	QPSK	19957	1RB#0	23.47	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.38	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.55	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.65	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.61	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.60	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.64	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.27	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.23	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.37	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.36	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.38	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.38	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.44	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.39	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.31	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.48	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.56	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.52	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.51	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.53	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.85	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.76	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.90	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.67	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.66	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.72	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.60	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.42	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.34	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.43	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.53	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.52	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.49	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.38	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.80	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.70	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.82	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.59	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.59	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.63	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.48	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.64	PASS

Band4	3MHz	QPSK	19965	1RB#8	23.59	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.65	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.78	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.79	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.83	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.82	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.28	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.35	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.53	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.53	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.54	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.51	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.48	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.47	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.54	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.66	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.66	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.69	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.63	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.77	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.74	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.80	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.75	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.76	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.81	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.85	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.52	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.44	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.50	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.58	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.58	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.58	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.52	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.83	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.77	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.82	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.69	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.66	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.69	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.69	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.92	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.99	PASS

Band4	5MHz	QPSK	19975	1RB#24	23.84	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.87	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.91	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.87	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.89	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.57	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.64	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.55	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.55	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.59	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.57	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.54	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.62	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.74	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.66	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.68	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.68	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.66	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.66	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.96	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.08	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.97	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.88	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.93	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.90	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.95	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.74	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.78	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.69	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.61	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.64	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.62	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.59	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.82	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.92	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.84	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.83	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.84	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.80	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.74	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.95	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.88	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.82	PASS

Band4	10MHz	QPSK	20000	25RB#0	22.90	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.87	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.78	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.84	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.67	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.63	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.68	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.56	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.59	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.58	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.57	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.57	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.64	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.72	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.68	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.67	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.66	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.66	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.19	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.20	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.21	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.98	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.96	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.86	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.94	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.87	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.78	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.81	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.61	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.62	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.60	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.62	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.79	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.87	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.91	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.73	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.72	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.70	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.71	PASS
Band4	15MHz	QPSK	20025	1RB#0	24.02	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.79	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.77	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.99	PASS

Band4	15MHz	QPSK	20025	38RB#18	22.87	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.81	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.92	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.72	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.63	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.68	PASS
Band4	15MHz	QPSK	20175	38RB#0	22.70	PASS
Band4	15MHz	QPSK	20175	38RB#18	22.71	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.69	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.72	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.61	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.61	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.69	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.75	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.72	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.72	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.76	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.15	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.08	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.01	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.98	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.88	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.84	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.91	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.92	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.75	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.80	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.64	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.63	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.62	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.68	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.77	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.81	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.89	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.70	PASS
Band4	15MHz	16QAM	20325	38RB#18	21.71	PASS
Band4	15MHz	16QAM	20325	38RB#37	21.70	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.75	PASS
Band4	20MHz	QPSK	20050	1RB#0	24.05	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.85	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.84	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.90	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.78	PASS

Band4	20MHz	QPSK	20050	50RB#50	22.76	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.81	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.85	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.73	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.85	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.61	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.60	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.59	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.59	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.60	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.58	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.75	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.69	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.66	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.64	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.69	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.14	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.01	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.93	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.93	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.82	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.77	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.85	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.13	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.93	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.05	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.70	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.68	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.66	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.62	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.75	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.80	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.95	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.73	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.69	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.67	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.70	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	23.93	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.83	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.01	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.06	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.02	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.01	PASS

Band5	1.4MHz	QPSK	20407	6RB#0	23.11	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.75	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.67	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.78	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.79	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.78	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.77	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.89	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.77	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.70	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.89	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.92	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.88	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.90	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.99	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.30	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.19	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.33	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.07	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	23.07	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.11	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.02	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.86	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.77	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.82	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.95	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.92	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.87	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.80	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.19	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.10	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.26	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.96	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.95	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.01	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.88	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.06	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.00	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.06	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.18	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.19	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.18	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.13	PASS

Band5	3MHz	QPSK	20525	1RB#0	23.86	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.75	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.71	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.96	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.92	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.89	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.90	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.77	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.82	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.92	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.98	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.01	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.05	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.00	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.31	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.27	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.34	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.16	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.12	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.15	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.12	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.01	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.87	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.83	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.87	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.82	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.81	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.86	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.02	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.03	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.10	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.99	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.02	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.05	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.96	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.03	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.11	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.03	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.06	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.05	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.02	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.04	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.86	PASS

Band5	5MHz	QPSK	20525	1RB#12	23.91	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.62	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.77	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.79	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.71	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.74	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.51	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.93	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.92	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.72	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.82	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.89	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.81	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.15	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.27	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.23	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.14	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.15	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.12	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.07	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.97	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.98	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.71	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.74	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.74	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.67	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.74	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.71	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.12	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.11	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.74	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.82	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.90	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.80	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.13	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.11	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.00	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.15	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.09	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.03	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.09	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.05	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.90	PASS

Band5	10MHz	QPSK	20525	1RB#49	23.62	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.80	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.80	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.63	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.71	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.59	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.52	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.97	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.62	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.58	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.73	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.68	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.40	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.32	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.17	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.12	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.07	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.13	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.26	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.06	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.81	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.79	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.78	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.62	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.71	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.79	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.76	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.18	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.62	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.58	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.72	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.68	PASS
Band17	5MHz	QPSK	23755	1RB#0	23.07	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.29	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.50	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.04	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.24	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.51	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.30	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.45	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.57	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.91	PASS

Band17	5MHz	QPSK	23790	12RB#0	22.53	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.46	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.11	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.33	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.08	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.90	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.36	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.02	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.91	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.18	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.09	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.32	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.53	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.68	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.15	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.37	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.63	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.34	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.57	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.67	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.08	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.51	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.45	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.11	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.36	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.30	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.14	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.48	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.07	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.97	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.23	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.10	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.16	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.62	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.91	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.20	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.46	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.09	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.15	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.17	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.57	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.14	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.33	PASS

Band17	10MHz	QPSK	23790	25RB#12	22.42	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.98	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.17	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.24	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.27	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.43	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.46	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.29	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.00	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.26	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.61	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.96	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.35	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.24	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.52	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.15	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.22	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.44	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.74	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.37	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.34	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.45	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.99	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.21	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.52	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.50	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.59	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.47	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.31	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.03	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.26	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	4.02	13	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	5.06	13	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	3.68	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	4.68	13	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	3.30	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	4.45	13	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	4.82	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	5.95	13	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	4.66	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	5.57	13	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	4.23	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	5.40	13	PASS
Band2	3MHz	QPSK	18615	1RB#0	3.99	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.08	13	PASS
Band2	3MHz	QPSK	18900	1RB#0	3.42	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	4.72	13	PASS
Band2	3MHz	QPSK	19185	1RB#0	3.15	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	4.37	13	PASS
Band2	3MHz	16QAM	18615	1RB#0	4.87	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	6.04	13	PASS
Band2	3MHz	16QAM	18900	1RB#0	4.34	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	5.57	13	PASS
Band2	3MHz	16QAM	19185	1RB#0	4.03	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	5.31	13	PASS
Band2	5MHz	QPSK	18625	1RB#0	4.02	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.21	13	PASS
Band2	5MHz	QPSK	18900	1RB#0	3.60	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.79	13	PASS
Band2	5MHz	QPSK	19175	1RB#0	3.06	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.45	13	PASS
Band2	5MHz	16QAM	18625	1RB#0	4.82	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	6.01	13	PASS
Band2	5MHz	16QAM	18900	1RB#0	4.37	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	5.59	13	PASS
Band2	5MHz	16QAM	19175	1RB#0	3.91	13	PASS

Band2	5MHz	16QAM	19175	25RB#0	5.37	13	PASS
Band2	10MHz	QPSK	18650	1RB#0	3.95	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.23	13	PASS
Band2	10MHz	QPSK	18900	1RB#0	3.15	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	4.81	13	PASS
Band2	10MHz	QPSK	19150	1RB#0	2.84	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	4.38	13	PASS
Band2	10MHz	16QAM	18650	1RB#0	4.80	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	6.05	13	PASS
Band2	10MHz	16QAM	18900	1RB#0	4.07	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	5.66	13	PASS
Band2	10MHz	16QAM	19150	1RB#0	3.78	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	5.26	13	PASS
Band2	15MHz	QPSK	18675	1RB#0	4.05	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.34	13	PASS
Band2	15MHz	QPSK	18900	1RB#0	3.03	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.07	13	PASS
Band2	15MHz	QPSK	19125	1RB#0	3.35	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	4.72	13	PASS
Band2	15MHz	16QAM	18675	1RB#0	4.90	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	6.04	13	PASS
Band2	15MHz	16QAM	18900	1RB#0	3.99	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	5.80	13	PASS
Band2	15MHz	16QAM	19125	1RB#0	4.19	13	PASS
Band2	15MHz	16QAM	19125	75RB#0	5.50	13	PASS
Band2	20MHz	QPSK	18700	1RB#0	4.00	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.18	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	3.02	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.12	13	PASS
Band2	20MHz	QPSK	19100	1RB#0	4.06	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.94	13	PASS
Band2	20MHz	16QAM	18700	1RB#0	4.83	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.00	13	PASS
Band2	20MHz	16QAM	18900	1RB#0	3.96	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.88	13	PASS
Band2	20MHz	16QAM	19100	1RB#0	4.85	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.71	13	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	3.29	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	4.39	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	3.44	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.49	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	3.66	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.62	13	PASS

Band4	1.4MHz	16QAM	19957	1RB#0	4.31	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.31	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	4.31	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.38	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	4.49	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.48	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	3.26	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.46	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	3.51	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	4.46	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	3.70	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	4.74	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	4.18	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.31	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	4.53	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.38	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	4.51	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.59	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	3.25	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.56	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	3.67	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.46	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	3.88	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.80	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	4.04	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.42	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	4.45	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.31	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	4.80	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.67	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	3.12	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.89	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	3.62	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	4.53	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	3.64	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	4.88	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	4.07	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.70	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	4.44	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.40	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	4.49	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.69	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	3.16	13	PASS

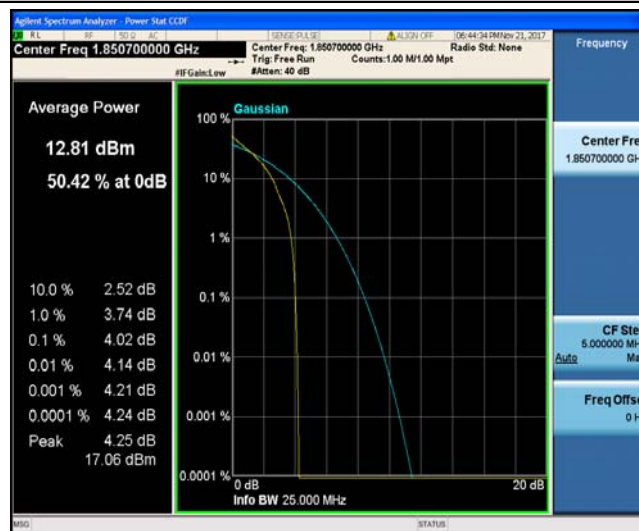
Band4	15MHz	QPSK	20025	75RB#0	5.21	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	3.78	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	4.83	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	3.19	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.00	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	4.17	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	5.96	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	4.69	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.61	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	4.11	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.78	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	3.14	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.20	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	3.95	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.05	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	3.07	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.97	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	3.98	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.00	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	4.73	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.80	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	4.09	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.79	13	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	3.60	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	4.35	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.81	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.51	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.17	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.83	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	4.53	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.32	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.74	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.39	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.02	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.70	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	3.57	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	4.54	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.67	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.48	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.40	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.90	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	4.42	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.46	13	PASS

Band5	3MHz	16QAM	20525	1RB#0	4.62	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.35	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.31	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.80	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	3.63	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.71	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	3.90	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.56	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.77	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.09	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	4.47	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.57	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.58	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.37	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.41	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.78	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	3.41	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.88	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.14	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.67	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.80	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.02	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	4.39	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.69	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.12	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.53	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.74	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.79	13	PASS
Band17	5MHz	QPSK	23755	1RB#0	4.63	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.08	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	3.79	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.70	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	3.88	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.93	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.55	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	5.98	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	4.68	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	5.52	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	4.63	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.75	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.45	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.14	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.40	13	PASS

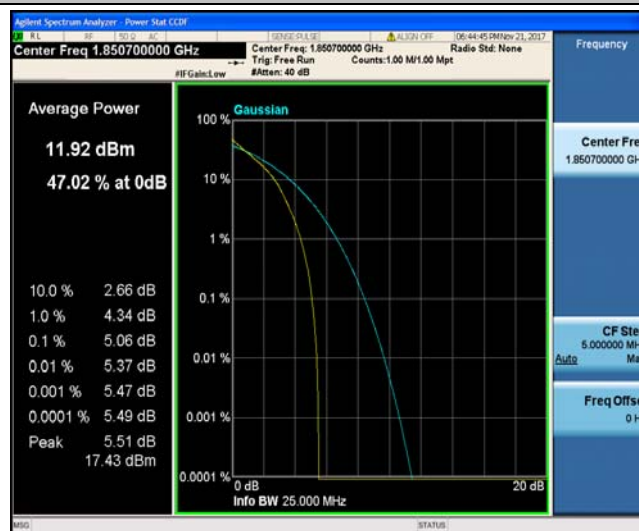
Band17	10MHz	QPSK	23790	50RB#0	5.10	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.15	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.04	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.28	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.95	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.36	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.95	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.11	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.84	13	PASS

Test Graphs

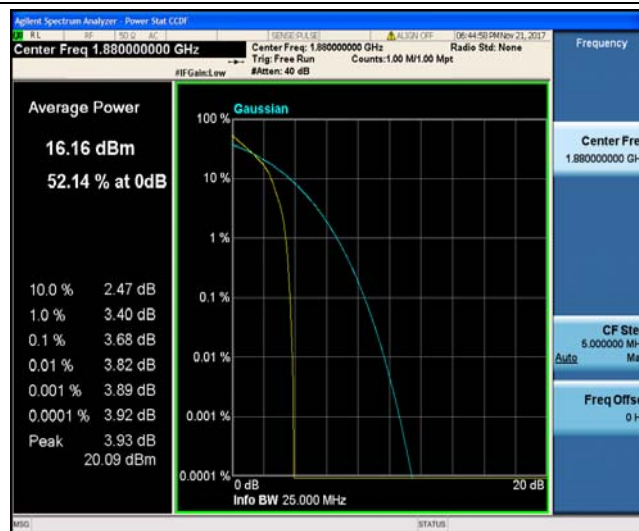
Band2_1.4MHz_QPSK_18607_1RB#0



Band2_1.4MHz_QPSK_18607_6RB#0



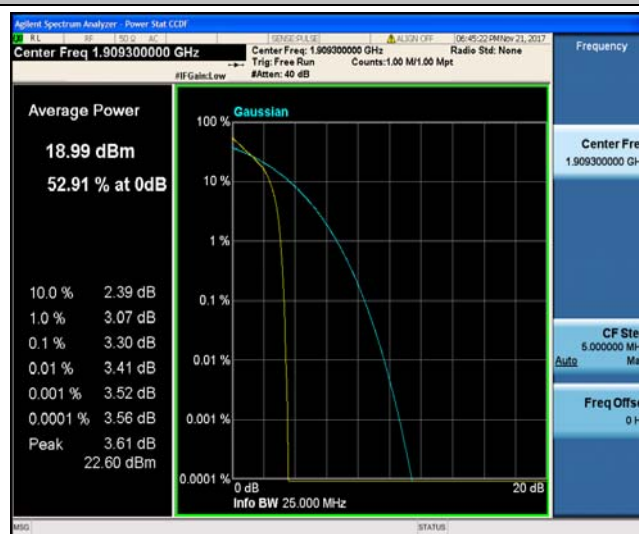
Band2_1.4MHz_QPSK_18900_1RB#0



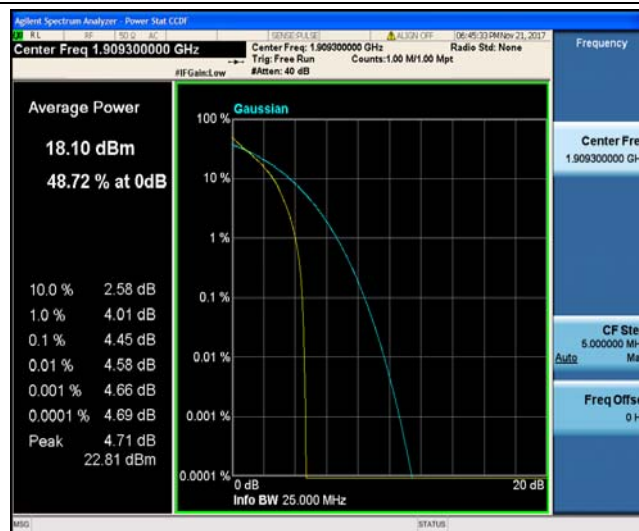
Band2_1.4MHz_QPSK_18900_6RB#0



Band2_1.4MHz_QPSK_19193_1RB#0



Band2_1.4MHz_QPSK_19193_6RB#0



Band2_1.4MHz_16QAM_18607_1RB#0



Band2_1.4MHz_16QAM_18607_6RB#0



Band2_1.4MHz_16QAM_18900_1RB#0



Band2_1.4MHz_16QAM_18900_6RB#0



Band2_1.4MHz_16QAM_19193_1RB#0



Band2_1.4MHz_16QAM_19193_6RB#0



Band2_3MHz_QPSK_18615_1RB#0



Band2_3MHz_QPSK_18615_15RB#0



Band2_3MHz_QPSK_18900_1RB#0



Band2_3MHz_QPSK_18900_15RB#0



Band2_3MHz_QPSK_19185_1RB#0



Band2_3MHz_QPSK_19185_15RB#0



Band2_3MHz_16QAM_18615_1RB#0



Band2_3MHz_16QAM_18615_15RB#0



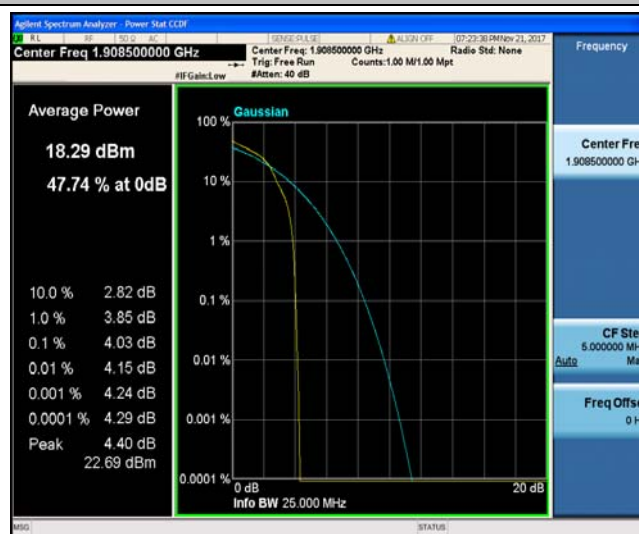
Band2_3MHz_16QAM_18900_1RB#0



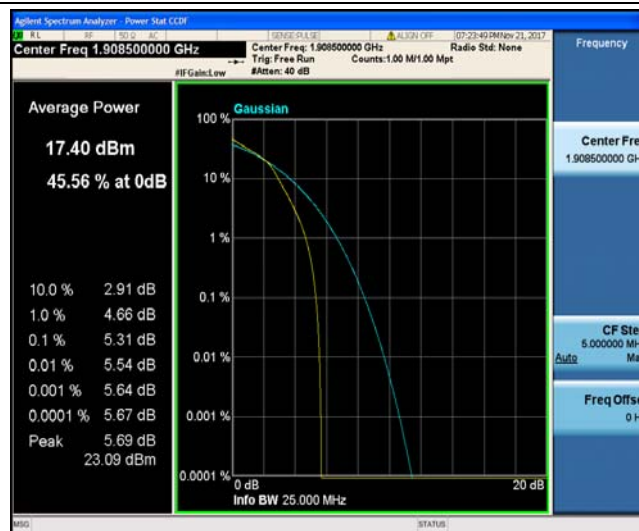
Band2_3MHz_16QAM_18900_15RB#0



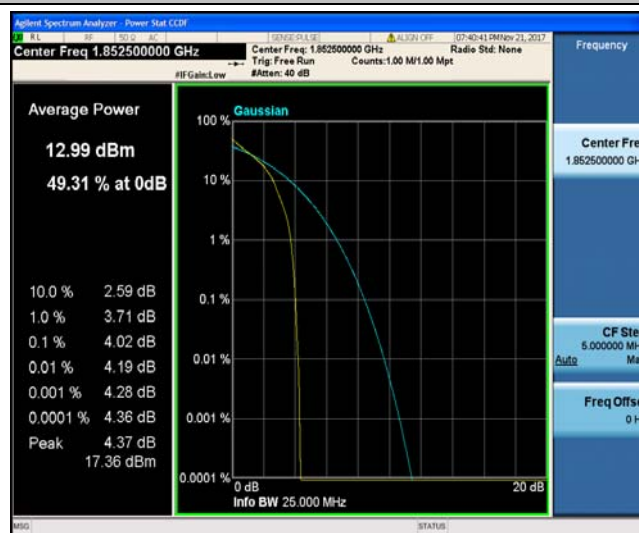
Band2_3MHz_16QAM_19185_1RB#0



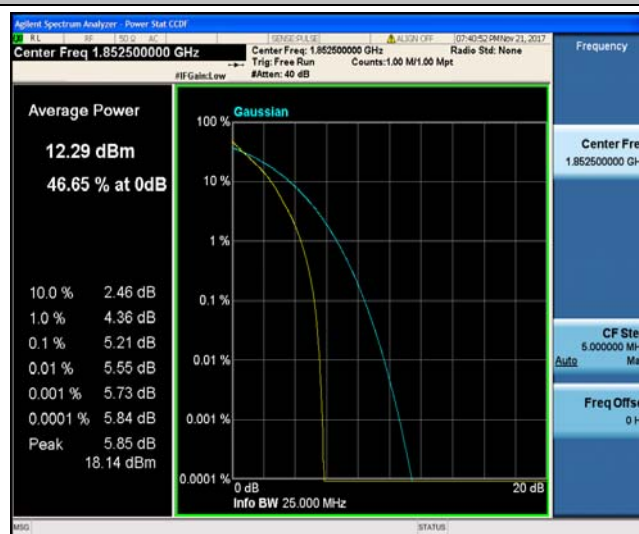
Band2_3MHz_16QAM_19185_15RB#0



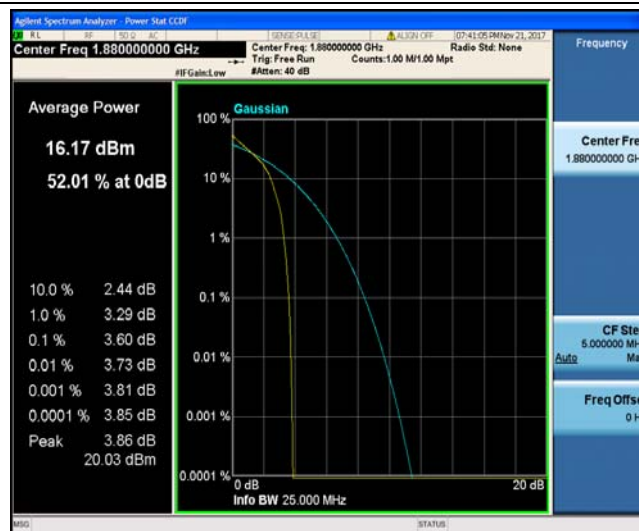
Band2_5MHz_QPSK_18625_1RB#0



Band2_5MHz_QPSK_18625_25RB#0



Band2_5MHz_QPSK_18900_1RB#0



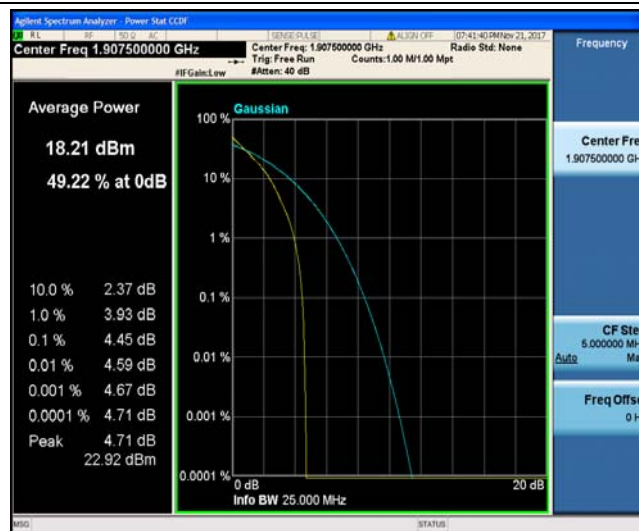
Band2_5MHz_QPSK_18900_25RB#0



Band2_5MHz_QPSK_19175_1RB#0



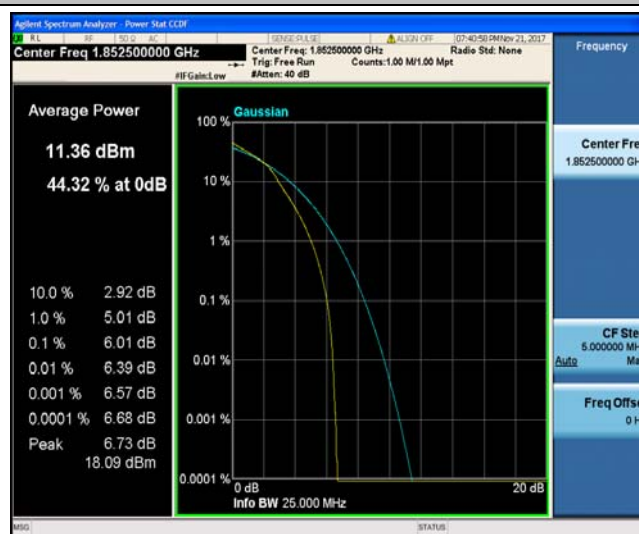
Band2_5MHz_QPSK_19175_25RB#0



Band2_5MHz_16QAM_18625_1RB#0



Band2_5MHz_16QAM_18625_25RB#0



Band2_5MHz_16QAM_18900_1RB#0



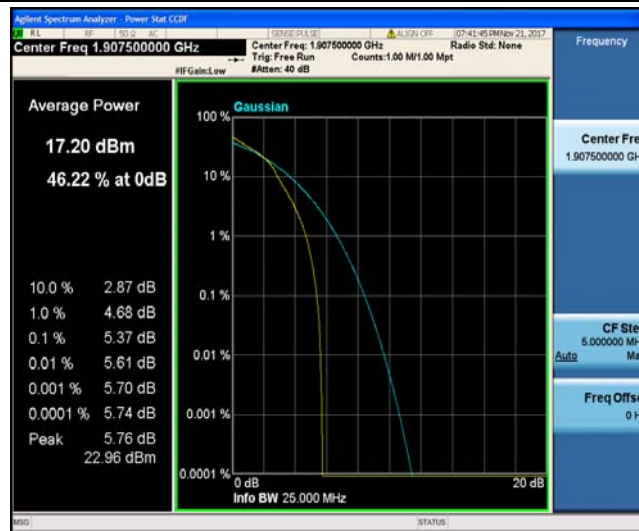
Band2_5MHz_16QAM_18900_25RB#0



Band2_5MHz_16QAM_19175_1RB#0



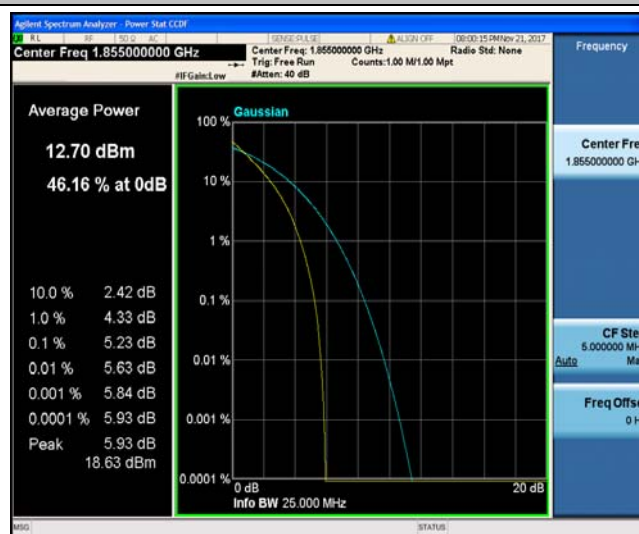
Band2_5MHz_16QAM_19175_25RB#0



Band2_10MHz_QPSK_18650_1RB#0



Band2_10MHz_QPSK_18650_50RB#0



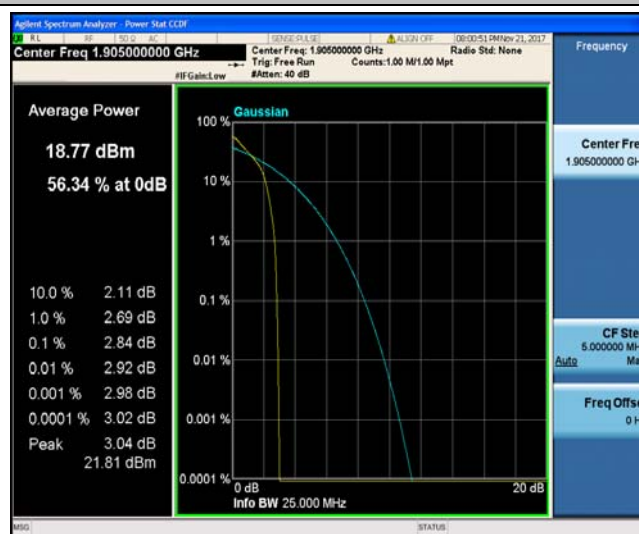
Band2_10MHz_QPSK_18900_1RB#0



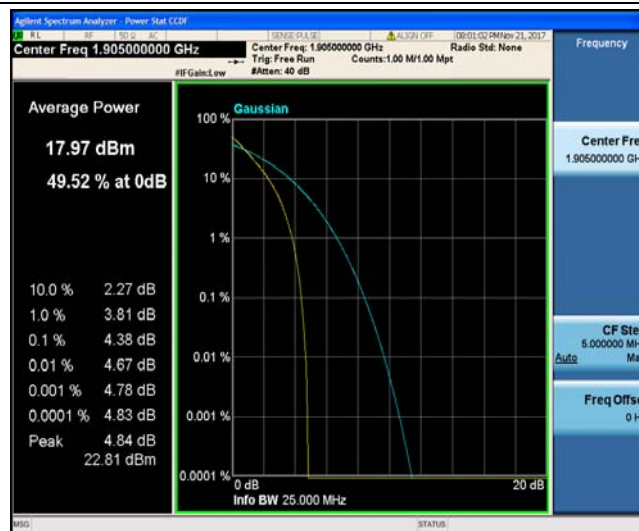
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Band2_10MHz_QPSK_19150_1RB#0



Band2_10MHz_QPSK_19150_50RB#0



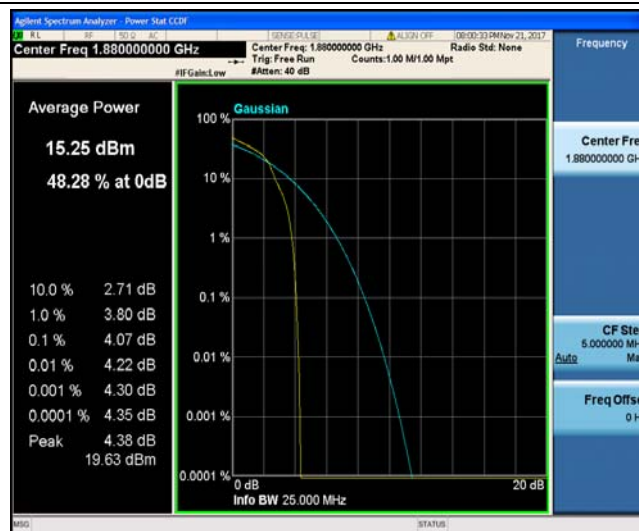
Band2_10MHz_16QAM_18650_1RB#0



Band2_10MHz_16QAM_18650_50RB#0



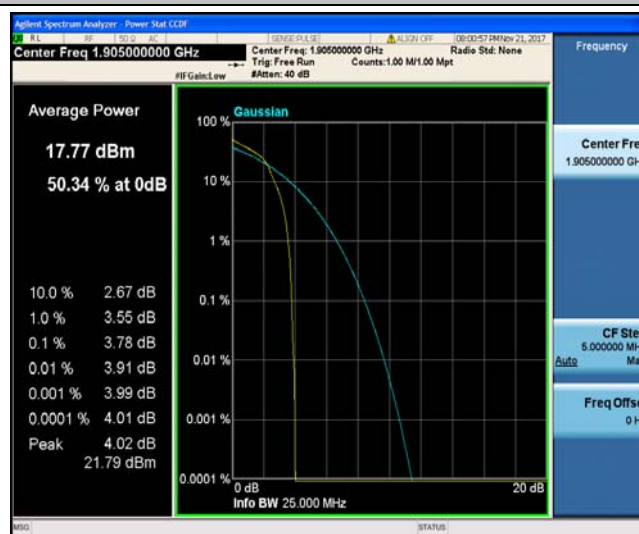
Band2_10MHz_16QAM_18900_1RB#0



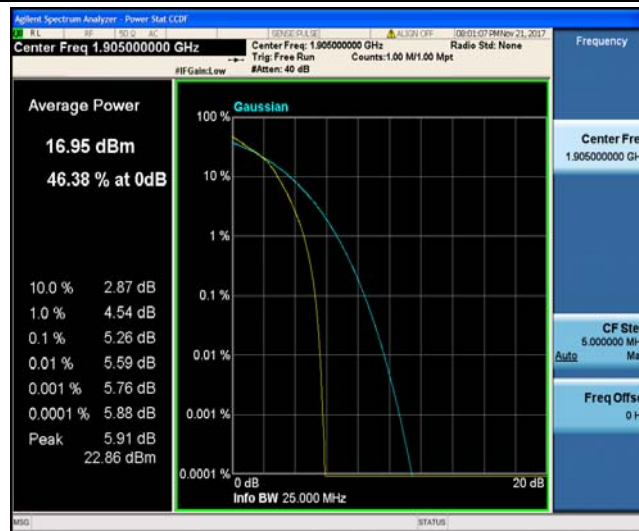
Band2_10MHz_16QAM_18900_50RB#0



Band2_10MHz_16QAM_19150_1RB#0



Band2_10MHz_16QAM_19150_50RB#0



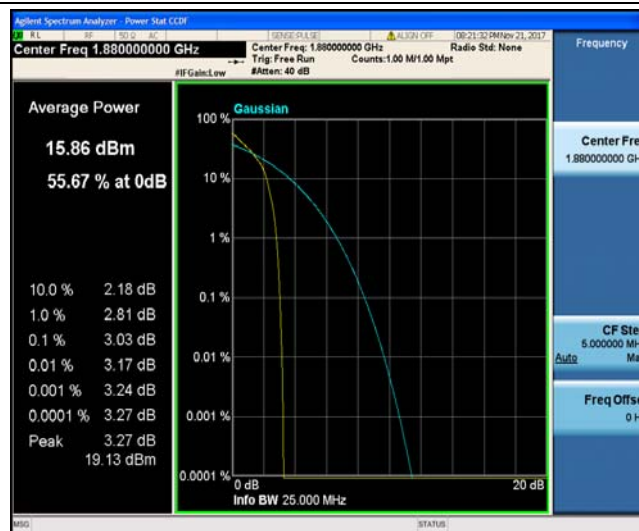
Band2_15MHz_QPSK_18675_1RB#0



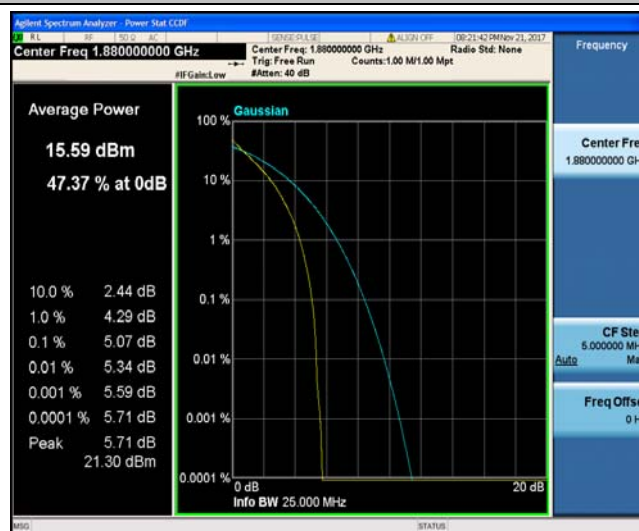
Band2_15MHz_QPSK_18675_75RB#0



Band2_15MHz_QPSK_18900_1RB#0



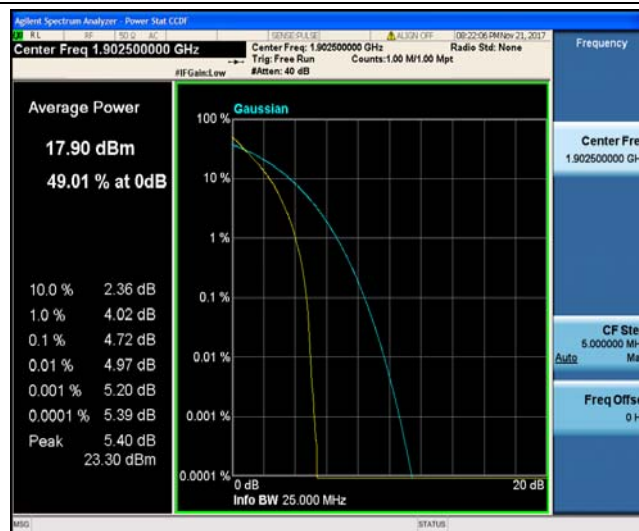
Band2_15MHz_QPSK_18900_75RB#0



Band2_15MHz_QPSK_19125_1RB#0



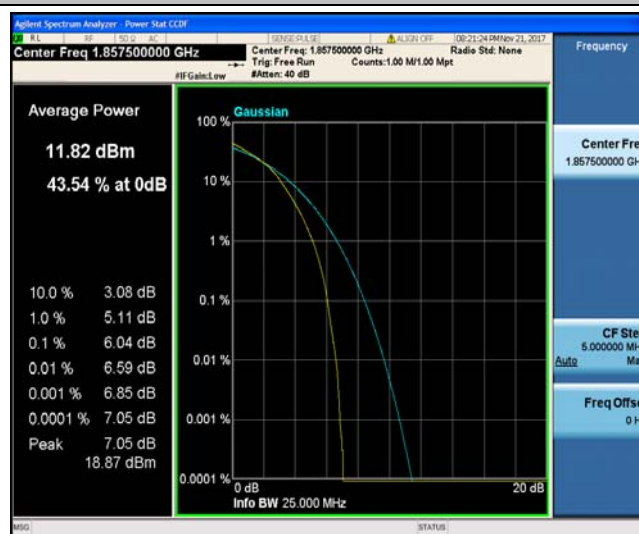
Band2_15MHz_QPSK_19125_75RB#0



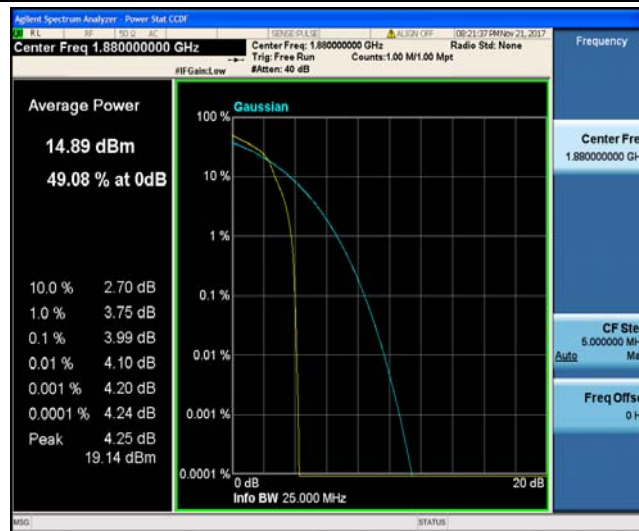
Band2_15MHz_16QAM_18675_1RB#0



Band2_15MHz_16QAM_18675_75RB#0



Band2_15MHz_16QAM_18900_1RB#0



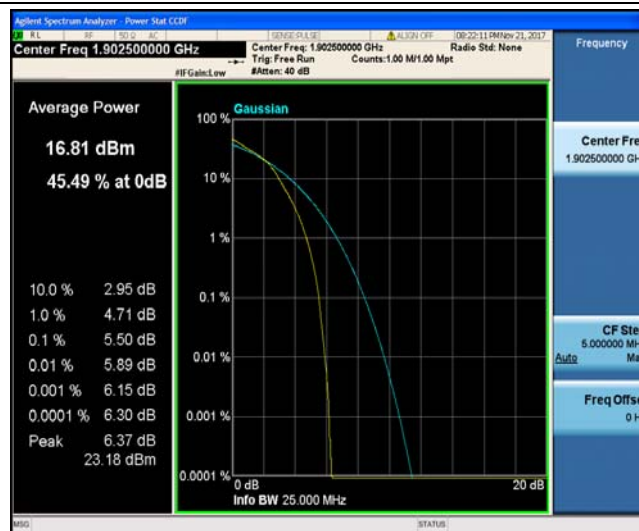
Band2_15MHz_16QAM_18900_75RB#0



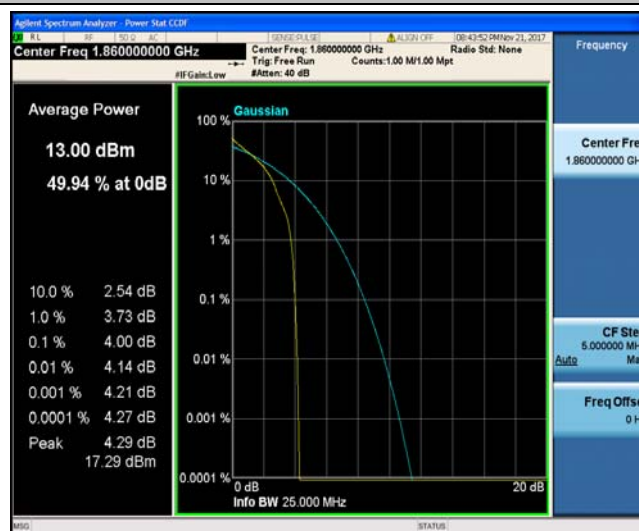
Band2_15MHz_16QAM_19125_1RB#0



Band2_15MHz_16QAM_19125_75RB#0



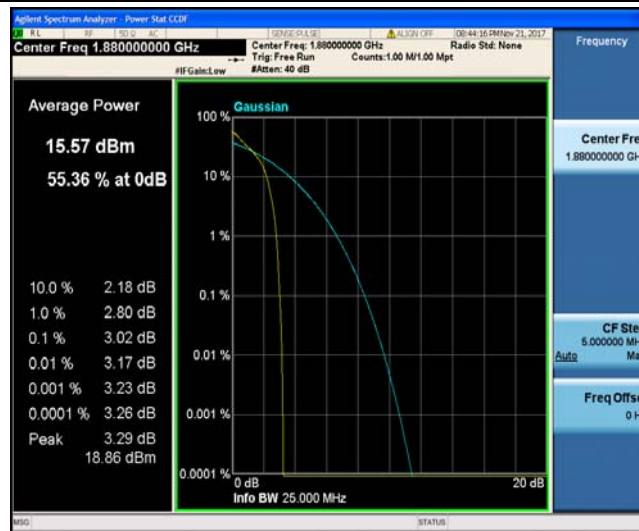
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Band2_20MHz_QPSK_18700_100RB#0



Band2_20MHz_QPSK_18900_1RB#0



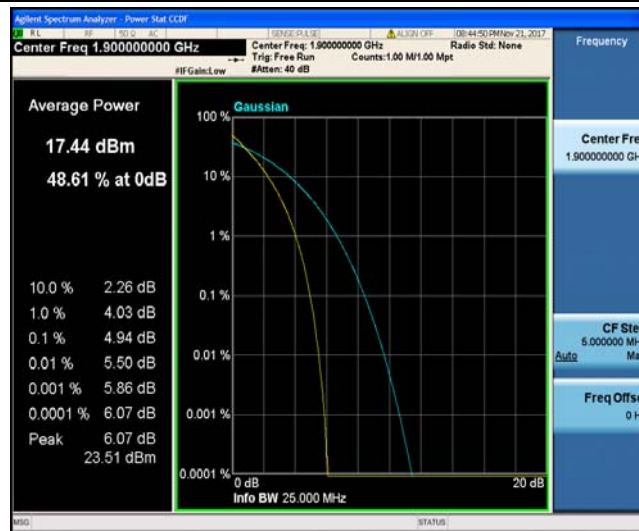
Band2_20MHz_QPSK_18900_100RB#0



Band2_20MHz_QPSK_19100_1RB#0



Band2_20MHz_QPSK_19100_100RB#0



Band2_20MHz_16QAM_18700_1RB#0



Band2_20MHz_16QAM_18700_100RB#0



Band2_20MHz_16QAM_18900_1RB#0



Band2_20MHz_16QAM_18900_100RB#0



Band2_20MHz_16QAM_19100_1RB#0



Band2_20MHz_16QAM_19100_100RB#0



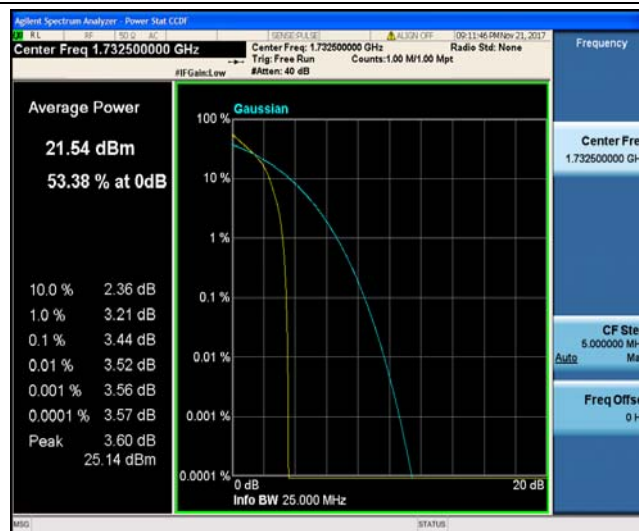
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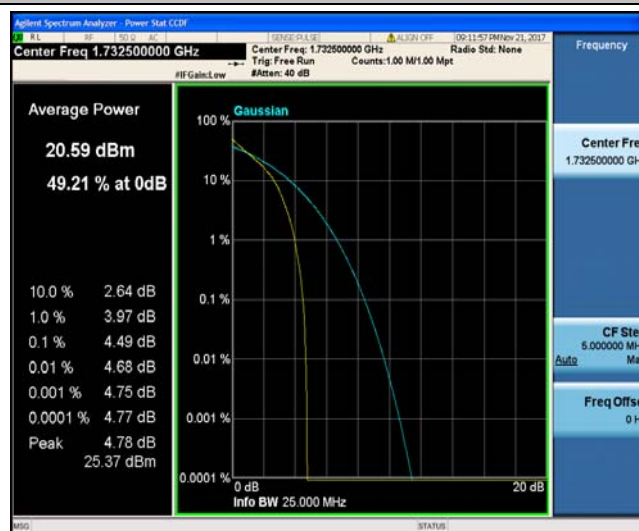
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Band4_1.4MHz_QPSK_20175_1RB#0



Band4_1.4MHz_QPSK_20175_6RB#0



Band4_1.4MHz_QPSK_20393_1RB#0



Band4_1.4MHz_QPSK_20393_6RB#0



Band4_1.4MHz_16QAM_19957_1RB#0



Band4_1.4MHz_16QAM_19957_6RB#0



Band4_1.4MHz_16QAM_20175_1RB#0



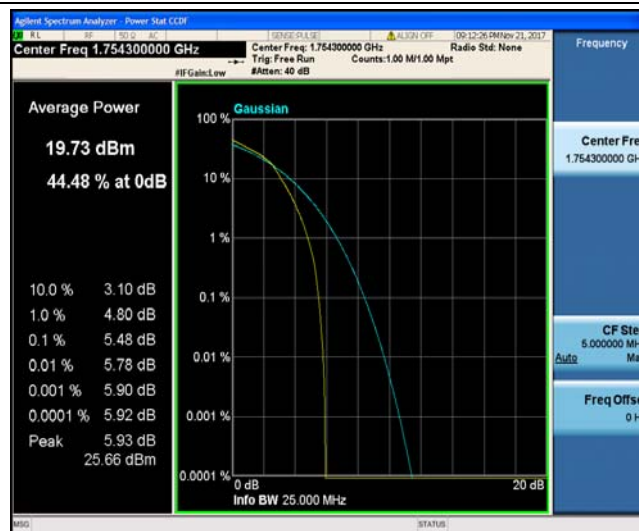
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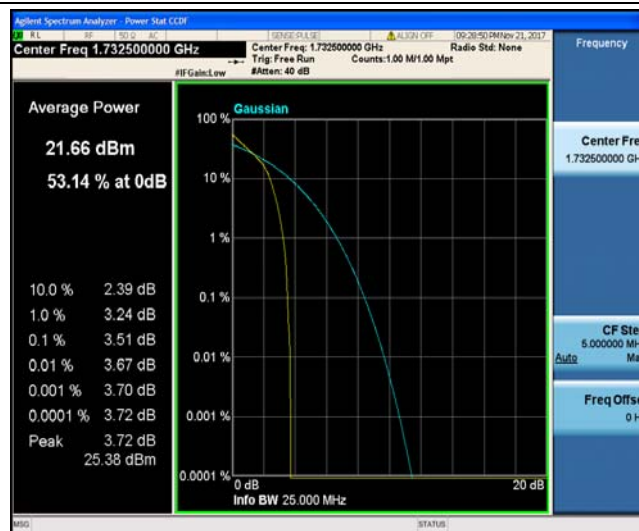
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Band4_3MHz_QPSK_19965_15RB#0



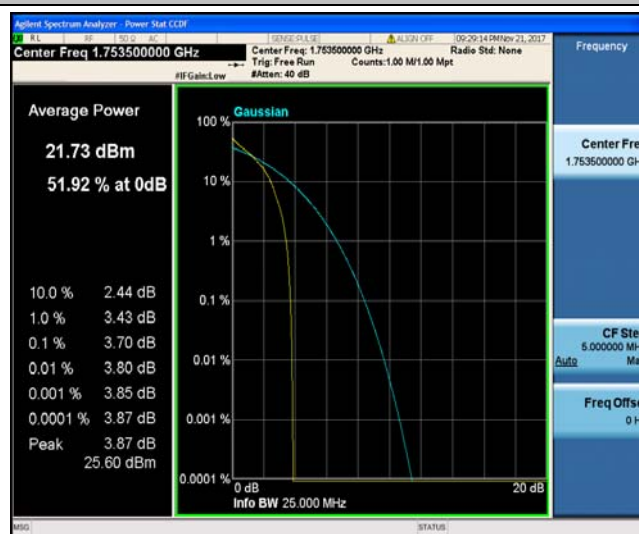
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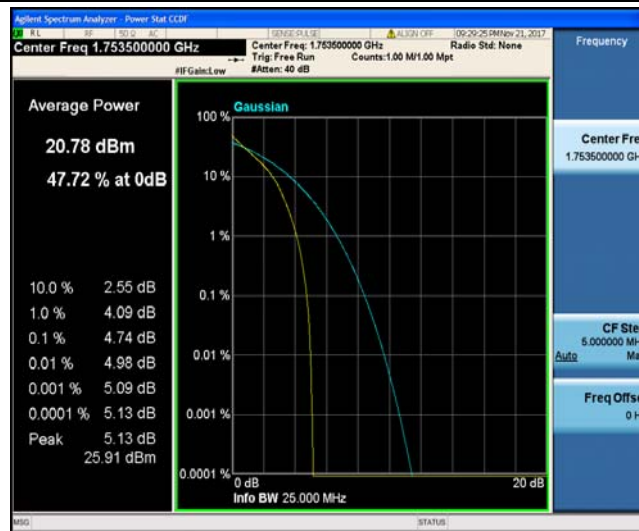
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Band4_3MHz_QPSK_20385_1RB#0



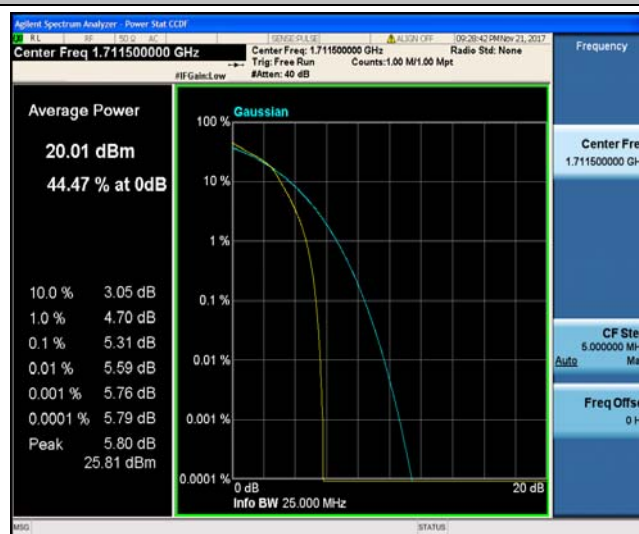
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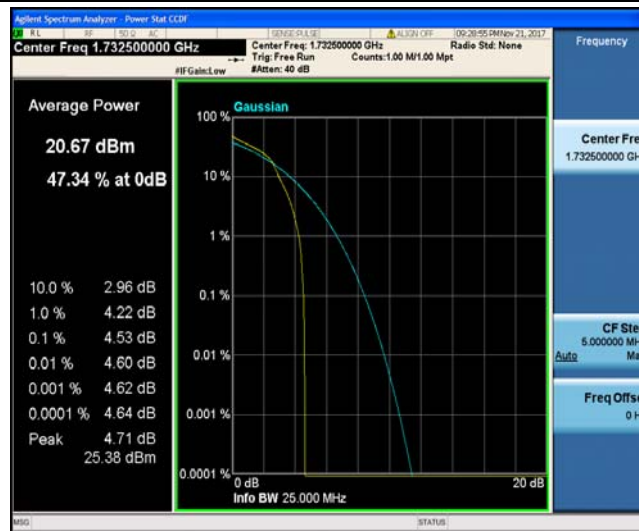
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Band4_3MHz_16QAM_19965_15RB#0



Band4_3MHz_16QAM_20175_1RB#0



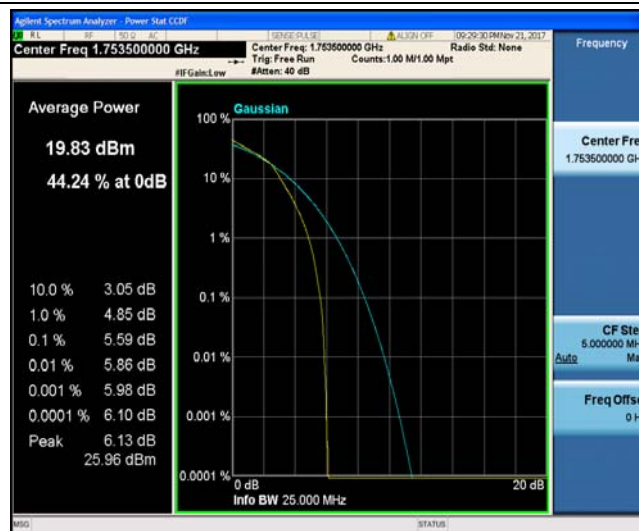
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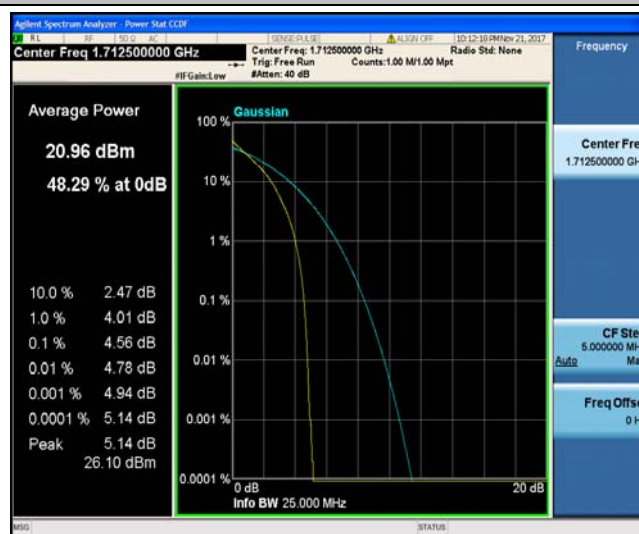
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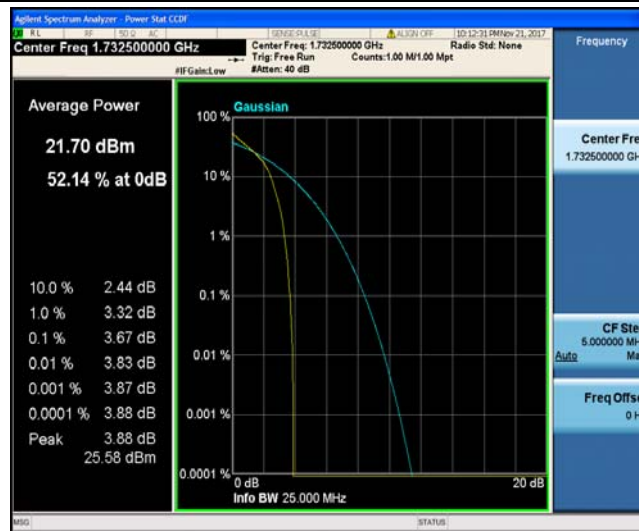
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Band4_5MHz_QPSK_19975_25RB#0



Band4_5MHz_QPSK_20175_1RB#0



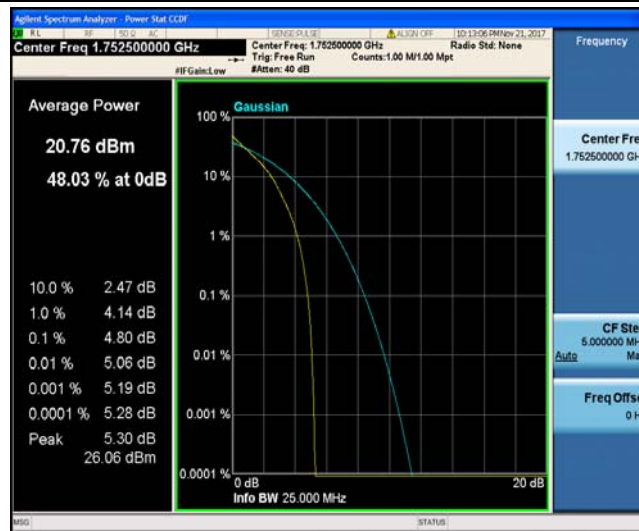
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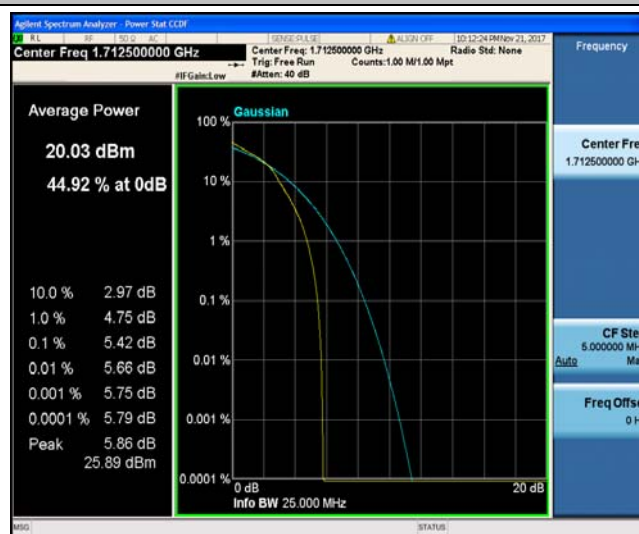
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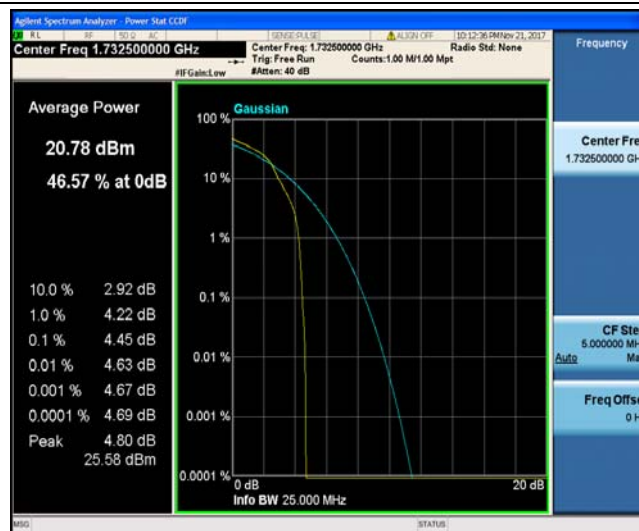
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Band4_5MHz_16QAM_19975_25RB#0



Band4_5MHz_16QAM_20175_1RB#0



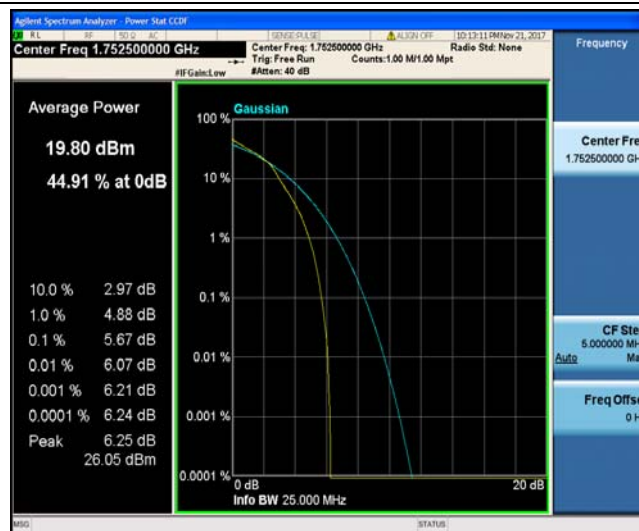
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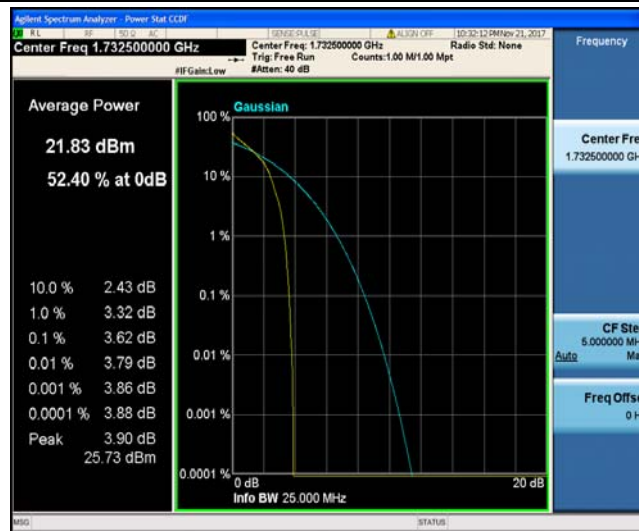
Band4_10MHz_QPSK_20000_1RB#0



Band4_10MHz_QPSK_20000_50RB#0



Band4_10MHz_QPSK_20175_1RB#0



Band4_10MHz_QPSK_20175_50RB#0



Band4_10MHz_QPSK_20350_1RB#0



Band4_10MHz_QPSK_20350_50RB#0