



FCC REPORT

Report Reference No...... : **TRE1712015303** R/C.....: 47178

FCC ID..... : **2A0OFS201**

Applicant's name..... : **Shenzhen Two Monkey technology co. Ltd.**

Address.....: Room 612,Building D,SDG Information Port,No.2 Kefeng Road,Nanshan District, Shenzhen,Guangdong,China

Manufacturer.....: Shenzhen Two Monkey technology co. Ltd.

Address.....: Room 612,Building D,SDG Information Port,No.2 Kefeng Road,Nanshan District, Shenzhen,Guangdong,China

Test item description : **Mobile terminal**

Trade Mark: DOSMONO

Model/Type reference.....: DOSMONO S201

Listed Model(s).....: -

Standard : **FCC Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES**

Date of receipt of test sample.....: Dec.15,2017

Date of testing.....: Dec.16,2017 - Jan.02,2018

Date of issue.....: Jan.03,2018

Result.....: **Pass**

Compiled by
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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 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 ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[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	Jan.03,2018	Original

2. Test Description

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

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

3. SUMMARY

3.1. Client Information

Applicant:	Shenzhen Two Monkey technology co. Ltd.
Address:	Room 612,Building D,SDG Information Port,No.2 Kefeng Road,Nanshan District, Shenzhen,Guangdong,China
Manufacturer:	Shenzhen Two Monkey technology co. Ltd.
Address:	Room 612,Building D,SDG Information Port,No.2 Kefeng Road,Nanshan District, Shenzhen,Guangdong,China

3.2. Product Description

Name of EUT:	Mobile terminal
Trade Mark:	DOSMONO
Model No.:	DOSMONO S201
Listed Model(s):	-
IMEI 1:	866811030873643
IMEI 2:	866811030875648
Power supply:	DC 4.35V
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.25A Output: 5Vd.c.,1000mA
Hardware version:	S630-BW-V1.3
Software version:	S630-BW- V1.1.5
RF Technical Description	
<input checked="" type="checkbox"/> FDD Band 7	
Operation Frequency:	Uplink:2502.5 MHz – 2567.5 MHz Downlink: 2622.5 MHz – 2687.5 MHz
Channel bandwidth:	<input type="checkbox"/> 1.4MHz <input type="checkbox"/> 3MHz <input checked="" type="checkbox"/> 5MHz <input checked="" type="checkbox"/> 10MHz <input type="checkbox"/> 15MHz <input type="checkbox"/> 20MHz
<input checked="" type="checkbox"/> FDD Band 41	
Operation Frequency:	Uplink:2557.5 MHz – 2652.5 MHz Downlink: 2557.5 MHz – 2652.5 MHz
Channel bandwidth:	<input type="checkbox"/> 1.4MHz <input type="checkbox"/> 3MHz <input checked="" type="checkbox"/> 5MHz <input checked="" type="checkbox"/> 10MHz <input checked="" type="checkbox"/> 15MHz <input checked="" type="checkbox"/> 20MHz
Power Class:	<input type="checkbox"/> Class 1 <input type="checkbox"/> Class 2 <input checked="" type="checkbox"/> Class 3 <input type="checkbox"/> Class 4
Modulation type:	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input type="checkbox"/> 64QAM
Antenna type	PIFA antenna
Antenna Gain	Band7:1.0dBi Band41:1.0dBi

3.3. Operation state

➤ Test frequency list

FDD Band 7						
Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	
Low Range	5	20775	2502.5	2775	2622.5	
	10	20800	2505	2800	2625	
	15	20825	2507.5	2825	2627.5	
	20 ^[1]	20850	2510	2850	2630	
Mid Range	5/10/15/20 ^[1]	21100	2535	3100	2655	
High Range	5	21425	2567.5	3425	2687.5	
	10	21400	2565	3400	2685	
	15	21375	2562.5	3375	2682.5	
	20 ^[1]	21350	2560	3350	2680	
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 41						
Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	
Low Range	5	40265	2557.5	40265	2557.5	
	10	40290	2560	40290	2560	
	15	40315	2562.5	40315	2562.5	
	20	40340	2565	40340	2565	
Mid Range	5/10/15/20	40740	2605	40740	2605	
High Range	5	41215	2652.5	41215	2652.5	
	10	41190	2650	41190	2650	
	15	41165	2647.5	41165	2647.5	
	20	41140	2645	41140	2645	

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 maimum 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 OutputPower	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v			v	v	v	v
	41	-	-	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	7	-	-	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7	-	-	v	v	v	v	v		v			v	v	v
	41	-	-	v	v	v	v	v		v			v	v	v
Frequency Stability	7						v	v	v			v		v	
	41						v	v	v			v		v	
Peak-to-AverageRatio	7						v	v	v	v		v	v	v	v
	41						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	N/A	N/A
7	ANTENNA MAST	MATURO	TAM-4.0-P	N/A	N/A	N/A
8	EMI Test Software	Audix	E3	N/A	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	N/A
16	Antenna Mast	Maturo Germany	CAM-4.0-P-12	N/A	N/A	N/A
17	Test Software	R&S	ES-K1	N/A	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	RE-7-FH	N/A	11/21/2017	11/20/2018
24	RF Connection Cable	HUBER+SUHNER	RE-7-FL	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 Conditon	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 Conditon	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 Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 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 $k=1.96$.

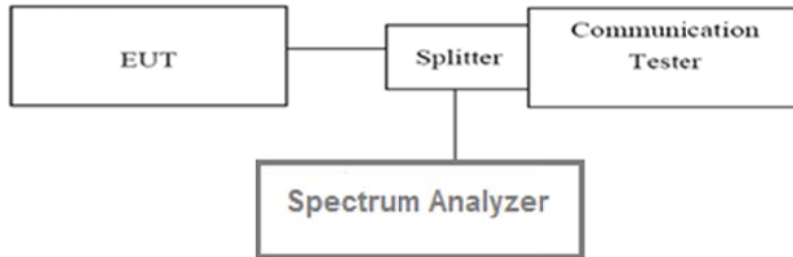
5. TEST CONDITIONS AND RESULTS

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**

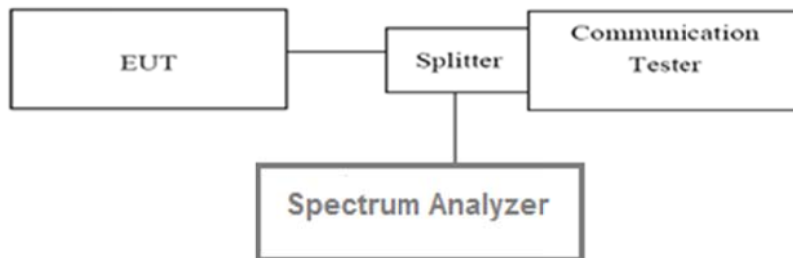
Reference Appendix A:

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**

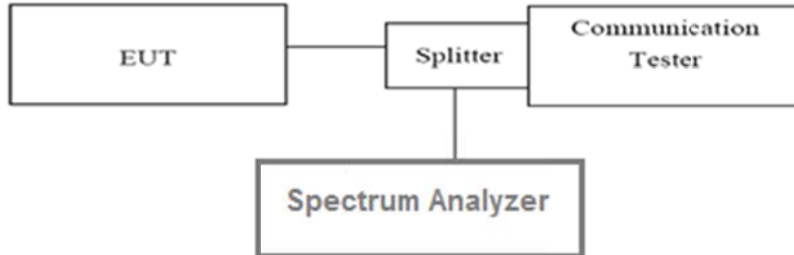
Reference Appendix C:

5.3. Conducted Spurious Emissions

LIMIT

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. Limit < -25 dBm

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

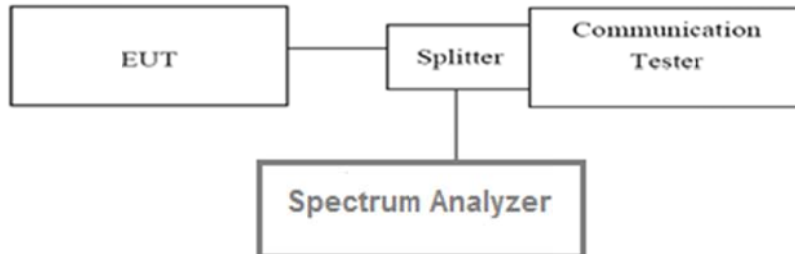
Reference Appendix E:

5.4. Band Edge

LIMIT

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

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

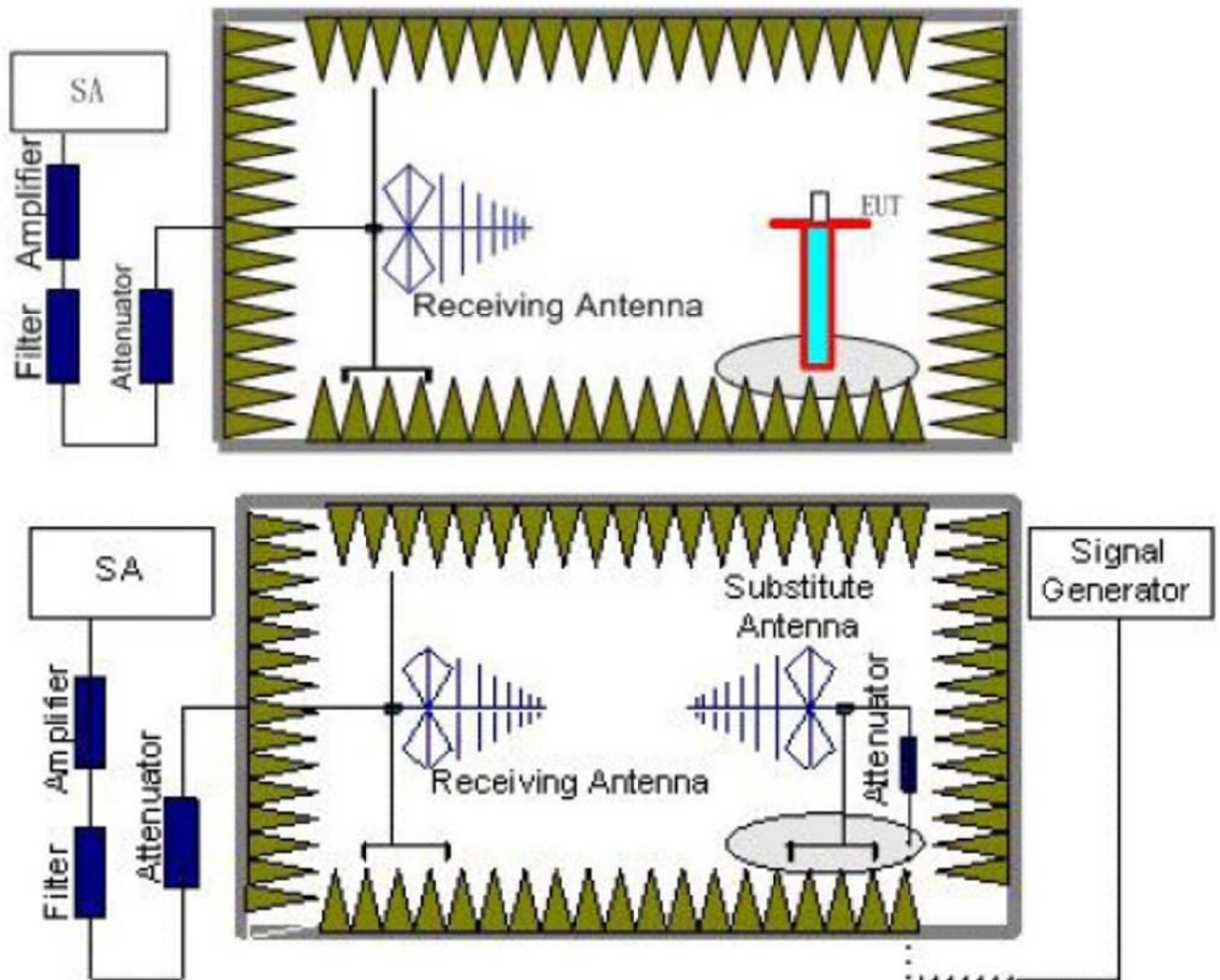
Reference Appendix D:

5.5. EIRP

LIMIT

LTE Band 7/41:EIRP<2W

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 (P_{Mea}) 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 7-5MHz						
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result	
		Vertical	Horizontal			
QPSK	Low	21.09	19.05	33.00	PASS	
	Mid	21.51	19.40			
	High	22.65	18.83			
16QAM	Low	18.09	17.67		33.00	PASS
	Mid	18.42	17.95			
	High	18.71	17.95			

LTE Band 7-10MHz						
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result	
		Vertical	Horizontal			
QPSK	Low	21.87	18.71	33.00	PASS	
	Mid	23.37	19.00			
	High	23.04	18.92			
16QAM	Low	18.51	17.76		33.00	PASS
	Mid	19.35	17.85			
	High	19.45	17.65			

LTE Band 7-15MHz						
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result	
		Vertical	Horizontal			
QPSK	Low	21.73	19.79	33.00	PASS	
	Mid	21.59	19.04			
	High	21.57	19.18			
16QAM	Low	19.37	17.78		33.00	PASS
	Mid	19.27	17.18			
	High	19.49	17.53			

LTE Band 7-20MHz						
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result	
		Vertical	Horizontal			
QPSK	Low	22.18	19.57	33.00	PASS	
	Mid	22.96	19.35			
	High	22.88	19.44			
16QAM	Low	18.73	17.94		33.00	PASS
	Mid	19.28	17.48			
	High	19.49	17.65			

LTE Band 41-5MHz						
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result	
		Vertical	Horizontal			
QPSK	Low	22.53	20.32	33.00	PASS	
	Mid	22.86	20.39			
	High	23.62	19.97			
16QAM	Low	19.35	19.05		33.00	PASS
	Mid	19.72	18.96			
	High	19.67	19.10			

LTE Band 41-10MHz						
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result	
		Vertical	Horizontal			
QPSK	Low	21.54	19.25	33.00	PASS	
	Mid	21.38	19.47			
	High	21.06	19.36			
16QAM	Low	19.86	18.90		33.00	PASS
	Mid	18.88	18.83			
	High	21.84	19.90			

LTE Band 41-15MHz						
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result	
		Vertical	Horizontal			
QPSK	Low	22.16	20.98	33.00	PASS	
	Mid	22.49	20.05			
	High	22.96	19.88			
16QAM	Low	19.68	19.46		33.00	PASS
	Mid	20.06	18.60			
	High	19.63	18.69			

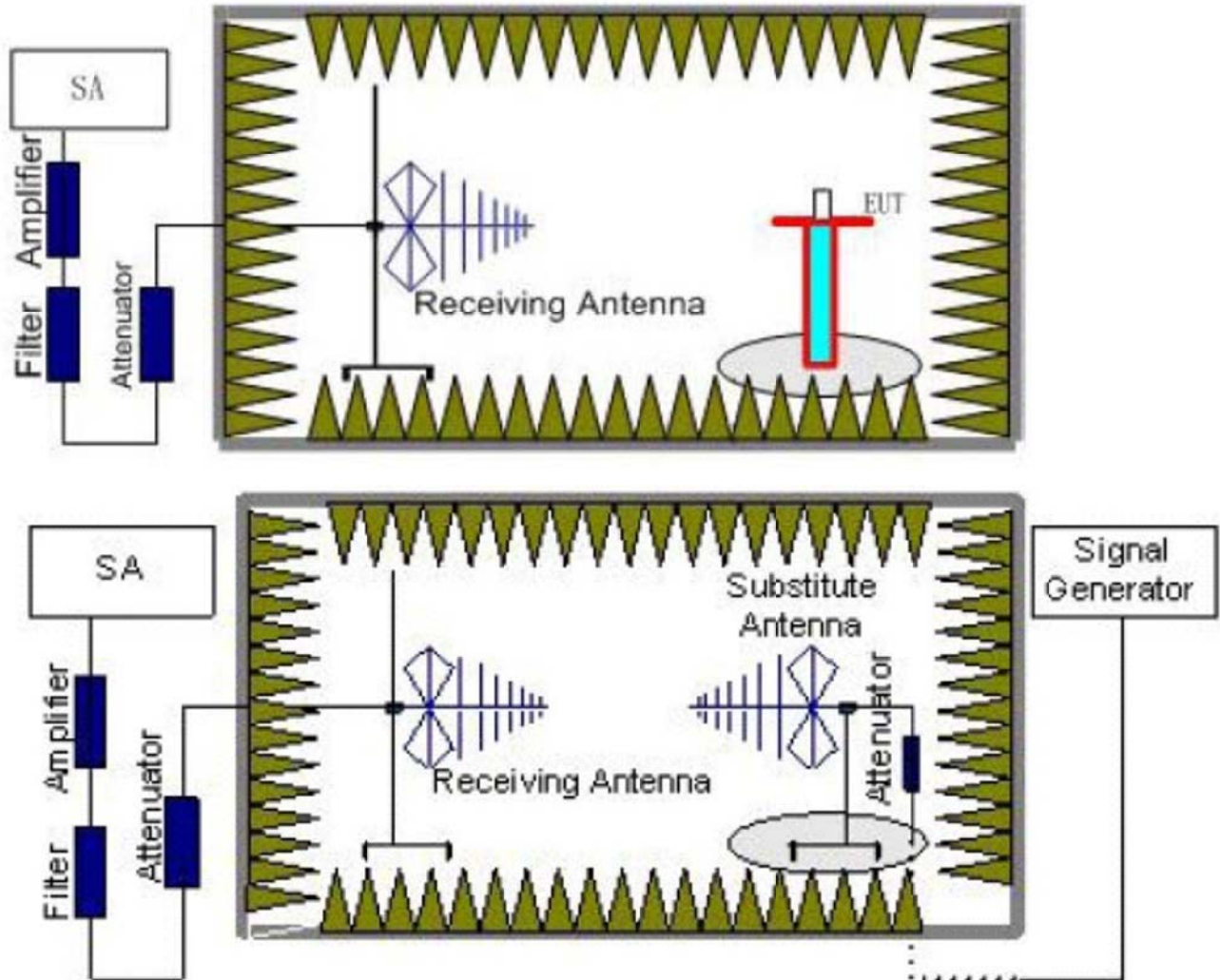
LTE Band 41-20MHz						
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result	
		Vertical	Horizontal			
QPSK	Low	22.81	20.71	33.00	PASS	
	Mid	22.43	19.85			
	High	21.83	20.04			
16QAM	Low	20.73	19.35		33.00	PASS
	Mid	21.05	18.41			
	High	20.39	18.65			

5.6. Radiated Spurious Emission

LIMIT

LTE Band 7/41 <-25dBm

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 (P_{Mea}) 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 7-5MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	5005	Vertical	-38.56	-25.00	Pass
	7507.5	V	-40.44		
	10010	V	---		
	5005	Horizontal	-39.97		
	7507.5	H	-41.25		
	10010	H	---		
Mid	5070	Vertical	-38.56	-25.00	Pass
	7605	V	-40.44		
	10140	V	---		
	5070	Horizontal	-38.76		
	7605	H	-41.37		
	10140	H	---		
High	5135	Vertical	-39.49	-25.00	Pass
	7702.5	V	-41.98		
	10270	V	---		
	5135	Horizontal	-38.21		
	7702.5	H	-42.10		
	10270	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 7-10MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	5010	Vertical	-38.66	-25.00	Pass
	7515	V	-40.34		
	10020	V	---		
	5010	Horizontal	-40.38		
	7515	H	-41.34		
	10020	H	---		
Mid	5070	Vertical	-38.98	-25.00	Pass
	7605	V	-40.63		
	10140	V	---		
	5070	Horizontal	-39.51		
	7605	H	-41.30		
	10140	H	---		
High	5130	Vertical	-39.65	-25.00	Pass
	7695	V	-41.74		
	10260	V	---		
	5130	Horizontal	-39.22		
	7695	H	-41.80		
	10260	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 7-15MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	5015	Vertical	-38.73	-25.00	Pass
	7522.5	V	-40.27		
	10030	V	---		
	5015	Horizontal	-40.71		
	7522.5	H	-41.41		
	10030	H	---		
Mid	5070	Vertical	-39.00	-25.00	Pass
	7605	V	-40.50		
	10140	V	---		
	5070	Horizontal	-39.33		
	7605	H	-41.56		
	10140	H	---		
High	5125	Vertical	-40.06	-25.00	Pass
	7687.5	V	-42.26		
	10250	V	---		
	5125	Horizontal	-38.62		
	7687.5	H	-42.41		
	10250	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 7-20MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	5020	Vertical	-38.91	-25.00	Pass
	7530	V	-40.09		
	10040	V	---		
	5020	Horizontal	-41.45		
	7530	H	-41.57		
	10040	H	---		
Mid	5070	Vertical	-39.49	-25.00	Pass
	7605	V	-40.61		
	10140	V	---		
	5070	Horizontal	-40.23		
	7605	H	-41.55		
	10140	H	---		
High	5120	Vertical	-40.43	-25.00	Pass
	7680	V	-42.16		
	10240	V	---		
	5120	Horizontal	-39.68		
	7680	H	-42.27		
	10240	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 41-5MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	5115	Vertical	-36.85	-25.00	Pass
	7672.5	V	-39.53		
	10230	V	---		
	5115	Horizontal	-32.36		
	7672.5	H	-35.07		
	10230	H	---		
Mid	5210	Vertical	-37.22	-25.00	Pass
	7815	V	-39.18		
	10420	V	---		
	5210	Horizontal	-31.91		
	7815	H	-34.70		
	10420	H	---		
High	5305	Vertical	-37.79	-25.00	Pass
	7957.5	V	-39.76		
	10610	V	---		
	5305	Horizontal	-32.10		
	7957.5	H	-34.89		
	10610	H	---		

Remark:

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

LTE Band 41-10MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	5120	Vertical	-38.43	-25.00	Pass
	7680	V	-38.58		
	10240	V	---		
	5120	Horizontal	-30.96		
	7680	H	-34.17		
	10240	H	---		
Mid	5210	Vertical	-39.15	-25.00	Pass
	7815	V	-39.25		
	10420	V	---		
	5210	Horizontal	-30.62		
	7815	H	-34.45		
	10420	H	---		
High	5300	Vertical	-39.62	-25.00	Pass
	7950	V	-38.82		
	10600	V	---		
	5300	Horizontal	-29.89		
	7950	H	-35.13		
	10600	H	---		

Remark:

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

LTE Band 41-15MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	5125	Vertical	-41.49	-25.00	Pass
	7687.5	V	-38.75		
	10250	V	---		
	5125	Horizontal	-30.07		
	7687.5	H	-35.29		
	10250	H	---		
Mid	5210	Vertical	-41.36	-25.00	Pass
	7815	V	-38.63		
	10420	V	-		
	5210	Horizontal	-30.33		
	7815	H	-35.51		
	10420	H	---		
High	5295	Vertical	-40.99	-25.00	Pass
	7942.5	V	-38.29		
	10590	V	-		
	5295	Horizontal	-30.45		
	7942.5	H	-35.62		
	10590	H	---		

Remark:

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

LTE Band 41-20MHz					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
Low	5130	Vertical	-40.93	-25.00	Pass
	7695	V	-39.05		
	10260	V	---		
	5130	Horizontal	-30.04		
	7695	H	-35.27		
	10260	H	---		
Mid	5210	Vertical	-41.16	-25.00	Pass
	7815	V	-39.26		
	10420	V	---		
	5210	Horizontal	-29.89		
	7815	H	-35.15		
	10420	H	-		
High	5290	Vertical	-41.36	-25.00	Pass
	7935	V	-39.45		
	10580	V	-		
	5290	Horizontal	-29.72		
	7935	H	-34.99		
	10580	H	---		

Remark:

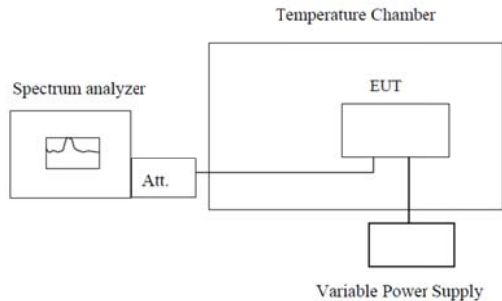
- Remark"---" means that the emission level is too low to be measured
- The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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**

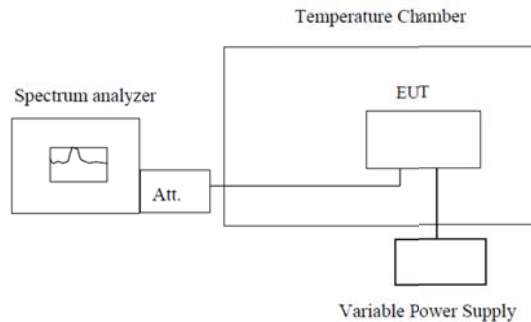
Reference Appendix F:

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**

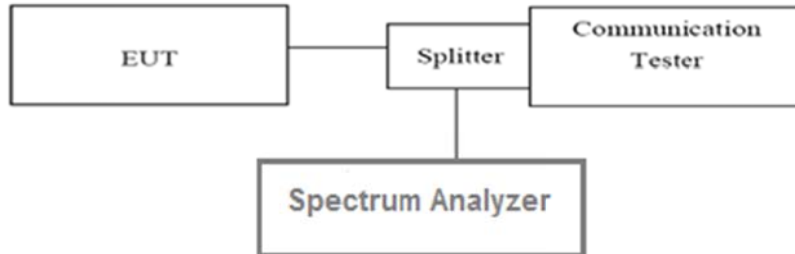
Reference Appendix F:

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

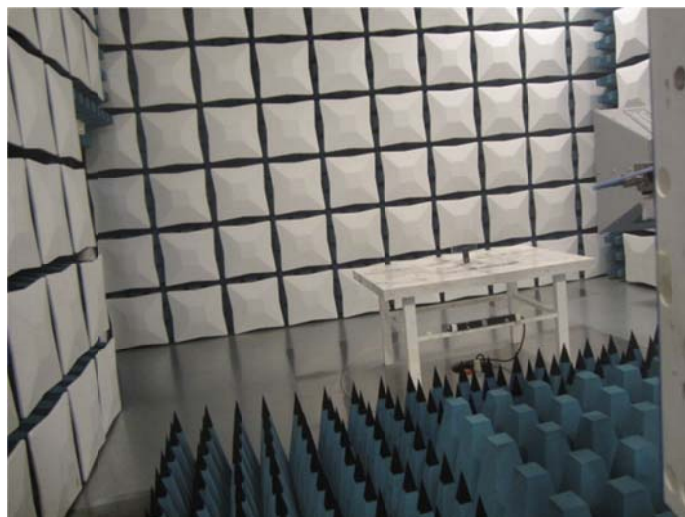
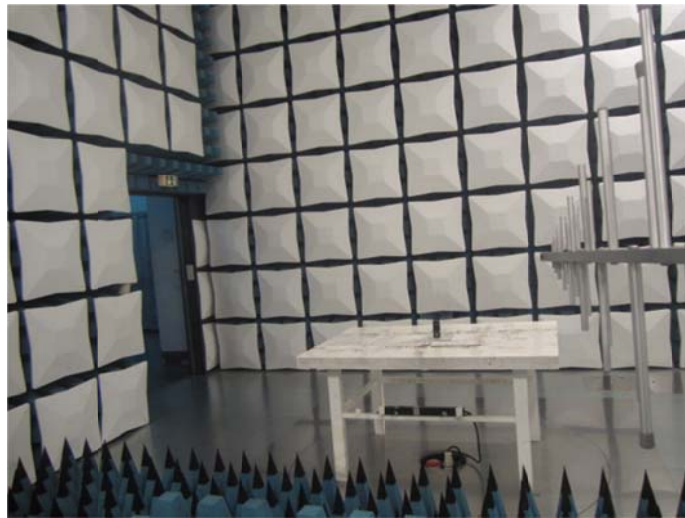
TEST RESULTS

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.: TRE1712015301.

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

Appendix A: Conducted Output Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.49	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.62	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.56	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.61	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.19	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.45	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.43	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.61	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.74	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.68	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.73	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.30	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.57	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.55	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.44	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.56	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.50	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.56	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.13	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.40	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.38	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.64	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.75	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.27	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.56	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.31	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.50	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.46	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.76	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.87	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.38	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.67	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.42	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.61	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.57	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.59	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.70	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.21	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.51	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.26	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.45	PASS

Band7	5MHz	16QAM	21425	25RB#0	21.41	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.68	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.74	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.83	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.72	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.74	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.82	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.75	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.80	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.86	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.95	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.84	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.86	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.94	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.87	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.62	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.68	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.77	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.67	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.69	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.77	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.70	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.91	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.96	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.05	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.74	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.76	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.81	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.80	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.03	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.08	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.17	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.85	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.87	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.92	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.91	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.86	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.91	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.69	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.71	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.76	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.75	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.86	PASS

Band7	15MHz	QPSK	20825	1RB#38	23.81	PASS
Band7	15MHz	QPSK	20825	1RB#74	24.02	PASS
Band7	15MHz	QPSK	20825	38RB#0	22.89	PASS
Band7	15MHz	QPSK	20825	38RB#18	22.79	PASS
Band7	15MHz	QPSK	20825	38RB#37	22.87	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.82	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.98	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.93	PASS
Band7	15MHz	QPSK	21100	1RB#74	24.14	PASS
Band7	15MHz	QPSK	21100	38RB#0	23.01	PASS
Band7	15MHz	QPSK	21100	38RB#18	22.91	PASS
Band7	15MHz	QPSK	21100	38RB#37	22.99	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.94	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.80	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.75	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.96	PASS
Band7	15MHz	QPSK	21375	38RB#0	22.84	PASS
Band7	15MHz	QPSK	21375	38RB#18	22.74	PASS
Band7	15MHz	QPSK	21375	38RB#37	22.82	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.77	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.76	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.86	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.95	PASS
Band7	15MHz	16QAM	20825	38RB#0	21.70	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.75	PASS
Band7	15MHz	16QAM	20825	38RB#37	21.80	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.74	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.88	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.98	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.07	PASS
Band7	15MHz	16QAM	21100	38RB#0	21.81	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.86	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.91	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.85	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.71	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.81	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.90	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.65	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.70	PASS
Band7	15MHz	16QAM	21375	38RB#37	21.75	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.69	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.72	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.82	PASS
Band7	20MHz	QPSK	20850	1RB#99	24.16	PASS

Band7	20MHz	QPSK	20850	50RB#0	22.59	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.68	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.78	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.68	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.84	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.94	PASS
Band7	20MHz	QPSK	21100	1RB#99	24.28	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.71	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.80	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.90	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.80	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.66	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.76	PASS
Band7	20MHz	QPSK	21350	1RB#99	24.10	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.54	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.63	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.73	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.63	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.74	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.93	PASS
Band7	20MHz	16QAM	20850	1RB#99	23.16	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.64	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.74	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.80	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.68	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.86	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.05	PASS
Band7	20MHz	16QAM	21100	1RB#99	23.28	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.75	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.85	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.91	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.79	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.69	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.88	PASS
Band7	20MHz	16QAM	21350	1RB#99	23.11	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.59	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.69	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.75	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.63	PASS
Band41	5MHz	QPSK	40265	1RB#0	24.41	PASS
Band41	5MHz	QPSK	40265	1RB#12	24.44	PASS
Band41	5MHz	QPSK	40265	1RB#24	24.37	PASS
Band41	5MHz	QPSK	40265	12RB#0	23.29	PASS
Band41	5MHz	QPSK	40265	12RB#6	23.43	PASS

Band41	5MHz	QPSK	40265	12RB#13	23.33	PASS
Band41	5MHz	QPSK	40265	25RB#0	23.29	PASS
Band41	5MHz	QPSK	40740	1RB#0	24.56	PASS
Band41	5MHz	QPSK	40740	1RB#12	24.59	PASS
Band41	5MHz	QPSK	40740	1RB#24	24.52	PASS
Band41	5MHz	QPSK	40740	12RB#0	23.43	PASS
Band41	5MHz	QPSK	40740	12RB#6	23.57	PASS
Band41	5MHz	QPSK	40740	12RB#13	23.47	PASS
Band41	5MHz	QPSK	40740	25RB#0	23.43	PASS
Band41	5MHz	QPSK	41215	1RB#0	24.34	PASS
Band41	5MHz	QPSK	41215	1RB#12	24.37	PASS
Band41	5MHz	QPSK	41215	1RB#24	24.30	PASS
Band41	5MHz	QPSK	41215	12RB#0	23.22	PASS
Band41	5MHz	QPSK	41215	12RB#6	23.36	PASS
Band41	5MHz	QPSK	41215	12RB#13	23.26	PASS
Band41	5MHz	QPSK	41215	25RB#0	23.22	PASS
Band41	5MHz	16QAM	40265	1RB#0	23.56	PASS
Band41	5MHz	16QAM	40265	1RB#12	23.63	PASS
Band41	5MHz	16QAM	40265	1RB#24	23.54	PASS
Band41	5MHz	16QAM	40265	12RB#0	22.37	PASS
Band41	5MHz	16QAM	40265	12RB#6	22.37	PASS
Band41	5MHz	16QAM	40265	12RB#13	22.32	PASS
Band41	5MHz	16QAM	40265	25RB#0	22.23	PASS
Band41	5MHz	16QAM	40740	1RB#0	23.70	PASS
Band41	5MHz	16QAM	40740	1RB#12	23.77	PASS
Band41	5MHz	16QAM	40740	1RB#24	23.68	PASS
Band41	5MHz	16QAM	40740	12RB#0	22.51	PASS
Band41	5MHz	16QAM	40740	12RB#6	22.51	PASS
Band41	5MHz	16QAM	40740	12RB#13	22.45	PASS
Band41	5MHz	16QAM	40740	25RB#0	22.36	PASS
Band41	5MHz	16QAM	41215	1RB#0	23.49	PASS
Band41	5MHz	16QAM	41215	1RB#12	23.56	PASS
Band41	5MHz	16QAM	41215	1RB#24	23.47	PASS
Band41	5MHz	16QAM	41215	12RB#0	22.31	PASS
Band41	5MHz	16QAM	41215	12RB#6	22.31	PASS
Band41	5MHz	16QAM	41215	12RB#13	22.25	PASS
Band41	5MHz	16QAM	41215	25RB#0	22.16	PASS
Band41	10MHz	QPSK	40290	1RB#0	24.76	PASS
Band41	10MHz	QPSK	40290	1RB#24	24.75	PASS
Band41	10MHz	QPSK	40290	1RB#49	24.73	PASS
Band41	10MHz	QPSK	40290	25RB#0	23.64	PASS
Band41	10MHz	QPSK	40290	25RB#12	23.64	PASS
Band41	10MHz	QPSK	40290	25RB#25	23.64	PASS
Band41	10MHz	QPSK	40290	50RB#0	23.64	PASS

Band41	10MHz	QPSK	40740	1RB#0	24.91	PASS
Band41	10MHz	QPSK	40740	1RB#24	24.90	PASS
Band41	10MHz	QPSK	40740	1RB#49	24.88	PASS
Band41	10MHz	QPSK	40740	25RB#0	23.78	PASS
Band41	10MHz	QPSK	40740	25RB#12	23.78	PASS
Band41	10MHz	QPSK	40740	25RB#25	23.78	PASS
Band41	10MHz	QPSK	40740	50RB#0	23.78	PASS
Band41	10MHz	QPSK	41190	1RB#0	24.69	PASS
Band41	10MHz	QPSK	41190	1RB#24	24.68	PASS
Band41	10MHz	QPSK	41190	1RB#49	24.66	PASS
Band41	10MHz	QPSK	41190	25RB#0	23.57	PASS
Band41	10MHz	QPSK	41190	25RB#12	23.57	PASS
Band41	10MHz	QPSK	41190	25RB#25	23.57	PASS
Band41	10MHz	QPSK	41190	50RB#0	23.57	PASS
Band41	10MHz	16QAM	40290	1RB#0	23.96	PASS
Band41	10MHz	16QAM	40290	1RB#24	23.95	PASS
Band41	10MHz	16QAM	40290	1RB#49	23.95	PASS
Band41	10MHz	16QAM	40290	25RB#0	22.58	PASS
Band41	10MHz	16QAM	40290	25RB#12	22.59	PASS
Band41	10MHz	16QAM	40290	25RB#25	22.58	PASS
Band41	10MHz	16QAM	40290	50RB#0	22.61	PASS
Band41	10MHz	16QAM	40740	1RB#0	24.10	PASS
Band41	10MHz	16QAM	40740	1RB#24	24.09	PASS
Band41	10MHz	16QAM	40740	1RB#49	24.09	PASS
Band41	10MHz	16QAM	40740	25RB#0	22.72	PASS
Band41	10MHz	16QAM	40740	25RB#12	22.73	PASS
Band41	10MHz	16QAM	40740	25RB#25	22.72	PASS
Band41	10MHz	16QAM	40740	50RB#0	22.75	PASS
Band41	10MHz	16QAM	41190	1RB#0	23.88	PASS
Band41	10MHz	16QAM	41190	1RB#24	23.87	PASS
Band41	10MHz	16QAM	41190	1RB#49	23.87	PASS
Band41	10MHz	16QAM	41190	25RB#0	22.52	PASS
Band41	10MHz	16QAM	41190	25RB#12	22.53	PASS
Band41	10MHz	16QAM	41190	25RB#25	22.52	PASS
Band41	10MHz	16QAM	41190	50RB#0	22.55	PASS
Band41	15MHz	QPSK	40315	1RB#0	25.04	PASS
Band41	15MHz	QPSK	40315	1RB#38	25.03	PASS
Band41	15MHz	QPSK	40315	1RB#74	25.00	PASS
Band41	15MHz	QPSK	40315	38RB#0	23.96	PASS
Band41	15MHz	QPSK	40315	38RB#18	23.96	PASS
Band41	15MHz	QPSK	40315	38RB#37	24.03	PASS
Band41	15MHz	QPSK	40315	75RB#0	23.98	PASS
Band41	15MHz	QPSK	40740	1RB#0	25.19	PASS
Band41	15MHz	QPSK	40740	1RB#38	25.18	PASS

Band41	15MHz	QPSK	40740	1RB#74	25.15	PASS
Band41	15MHz	QPSK	40740	38RB#0	24.10	PASS
Band41	15MHz	QPSK	40740	38RB#18	24.10	PASS
Band41	15MHz	QPSK	40740	38RB#37	24.18	PASS
Band41	15MHz	QPSK	40740	75RB#0	24.12	PASS
Band41	15MHz	QPSK	41165	1RB#0	24.96	PASS
Band41	15MHz	QPSK	41165	1RB#38	24.95	PASS
Band41	15MHz	QPSK	41165	1RB#74	24.92	PASS
Band41	15MHz	QPSK	41165	38RB#0	23.88	PASS
Band41	15MHz	QPSK	41165	38RB#18	23.88	PASS
Band41	15MHz	QPSK	41165	38RB#37	23.96	PASS
Band41	15MHz	QPSK	41165	75RB#0	23.90	PASS
Band41	15MHz	16QAM	40315	1RB#0	24.22	PASS
Band41	15MHz	16QAM	40315	1RB#38	24.17	PASS
Band41	15MHz	16QAM	40315	1RB#74	24.16	PASS
Band41	15MHz	16QAM	40315	38RB#0	22.83	PASS
Band41	15MHz	16QAM	40315	38RB#18	22.81	PASS
Band41	15MHz	16QAM	40315	38RB#37	22.82	PASS
Band41	15MHz	16QAM	40315	75RB#0	22.86	PASS
Band41	15MHz	16QAM	40740	1RB#0	24.37	PASS
Band41	15MHz	16QAM	40740	1RB#38	24.32	PASS
Band41	15MHz	16QAM	40740	1RB#74	24.31	PASS
Band41	15MHz	16QAM	40740	38RB#0	22.97	PASS
Band41	15MHz	16QAM	40740	38RB#18	22.95	PASS
Band41	15MHz	16QAM	40740	38RB#37	22.96	PASS
Band41	15MHz	16QAM	40740	75RB#0	23.00	PASS
Band41	15MHz	16QAM	41165	1RB#0	24.15	PASS
Band41	15MHz	16QAM	41165	1RB#38	24.10	PASS
Band41	15MHz	16QAM	41165	1RB#74	24.09	PASS
Band41	15MHz	16QAM	41165	38RB#0	22.76	PASS
Band41	15MHz	16QAM	41165	38RB#18	22.74	PASS
Band41	15MHz	16QAM	41165	38RB#37	22.75	PASS
Band41	15MHz	16QAM	41165	75RB#0	22.79	PASS
Band41	20MHz	QPSK	40340	1RB#0	25.11	PASS
Band41	20MHz	QPSK	40340	1RB#49	24.97	PASS
Band41	20MHz	QPSK	40340	1RB#99	25.02	PASS
Band41	20MHz	QPSK	40340	50RB#0	23.81	PASS
Band41	20MHz	QPSK	40340	50RB#25	23.82	PASS
Band41	20MHz	QPSK	40340	50RB#50	23.77	PASS
Band41	20MHz	QPSK	40340	100RB#0	23.75	PASS
Band41	20MHz	QPSK	40740	1RB#0	25.26	PASS
Band41	20MHz	QPSK	40740	1RB#49	25.12	PASS
Band41	20MHz	QPSK	40740	1RB#99	25.17	PASS
Band41	20MHz	QPSK	40740	50RB#0	23.95	PASS

Band41	20MHz	QPSK	40740	50RB#25	23.96	PASS
Band41	20MHz	QPSK	40740	50RB#50	23.91	PASS
Band41	20MHz	QPSK	40740	100RB#0	23.89	PASS
Band41	20MHz	QPSK	41140	1RB#0	25.03	PASS
Band41	20MHz	QPSK	41140	1RB#49	24.89	PASS
Band41	20MHz	QPSK	41140	1RB#99	24.94	PASS
Band41	20MHz	QPSK	41140	50RB#0	23.73	PASS
Band41	20MHz	QPSK	41140	50RB#25	23.74	PASS
Band41	20MHz	QPSK	41140	50RB#50	23.69	PASS
Band41	20MHz	QPSK	41140	100RB#0	23.67	PASS
Band41	20MHz	16QAM	40340	1RB#0	23.96	PASS
Band41	20MHz	16QAM	40340	1RB#49	23.99	PASS
Band41	20MHz	16QAM	40340	1RB#99	23.88	PASS
Band41	20MHz	16QAM	40340	50RB#0	22.76	PASS
Band41	20MHz	16QAM	40340	50RB#25	22.72	PASS
Band41	20MHz	16QAM	40340	50RB#50	22.71	PASS
Band41	20MHz	16QAM	40340	100RB#0	22.70	PASS
Band41	20MHz	16QAM	40740	1RB#0	24.10	PASS
Band41	20MHz	16QAM	40740	1RB#49	24.13	PASS
Band41	20MHz	16QAM	40740	1RB#99	24.02	PASS
Band41	20MHz	16QAM	40740	50RB#0	22.90	PASS
Band41	20MHz	16QAM	40740	50RB#25	22.86	PASS
Band41	20MHz	16QAM	40740	50RB#50	22.85	PASS
Band41	20MHz	16QAM	40740	100RB#0	22.84	PASS
Band41	20MHz	16QAM	41140	1RB#0	23.88	PASS
Band41	20MHz	16QAM	41140	1RB#49	23.91	PASS
Band41	20MHz	16QAM	41140	1RB#99	23.80	PASS
Band41	20MHz	16QAM	41140	50RB#0	22.69	PASS
Band41	20MHz	16QAM	41140	50RB#25	22.65	PASS
Band41	20MHz	16QAM	41140	50RB#50	22.64	PASS
Band41	20MHz	16QAM	41140	100RB#0	22.63	PASS

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	2.71	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	3.99	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	3.09	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.31	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	1.99	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	2.88	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	3.60	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.92	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	3.96	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.17	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	2.83	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	3.95	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	2.67	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	3.77	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	2.80	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.32	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	2.46	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	3.09	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	3.57	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	4.72	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	3.86	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.20	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	3.23	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	4.09	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	2.71	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	3.95	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	2.59	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	4.54	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	2.14	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	3.50	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	3.70	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	4.87	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	3.63	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.36	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	3.15	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	4.46	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	2.57	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	4.24	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	2.56	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.60	13	PASS

Band7	20MHz	QPSK	21350	1RB#0	2.16	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	3.94	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	3.23	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.05	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	3.38	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.44	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	3.08	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	4.82	13	PASS
Band41	5MHz	QPSK	40265	1RB#0	3.66	13	PASS
Band41	5MHz	QPSK	40265	25RB#0	4.88	13	PASS
Band41	5MHz	QPSK	40740	1RB#0	3.53	13	PASS
Band41	5MHz	QPSK	40740	25RB#0	4.51	13	PASS
Band41	5MHz	QPSK	41215	1RB#0	3.25	13	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.29	13	PASS
Band41	5MHz	16QAM	40265	1RB#0	4.82	13	PASS
Band41	5MHz	16QAM	40265	25RB#0	5.57	13	PASS
Band41	5MHz	16QAM	40740	1RB#0	4.87	13	PASS
Band41	5MHz	16QAM	40740	25RB#0	5.43	13	PASS
Band41	5MHz	16QAM	41215	1RB#0	4.02	13	PASS
Band41	5MHz	16QAM	41215	25RB#0	5.15	13	PASS
Band41	10MHz	QPSK	40290	1RB#0	3.61	13	PASS
Band41	10MHz	QPSK	40290	50RB#0	4.88	13	PASS
Band41	10MHz	QPSK	40740	1RB#0	3.56	13	PASS
Band41	10MHz	QPSK	40740	50RB#0	4.44	13	PASS
Band41	10MHz	QPSK	41190	1RB#0	3.11	13	PASS
Band41	10MHz	QPSK	41190	50RB#0	4.28	13	PASS
Band41	10MHz	16QAM	40290	1RB#0	4.87	13	PASS
Band41	10MHz	16QAM	40290	50RB#0	5.62	13	PASS
Band41	10MHz	16QAM	40740	1RB#0	4.77	13	PASS
Band41	10MHz	16QAM	40740	50RB#0	5.35	13	PASS
Band41	10MHz	16QAM	41190	1RB#0	4.32	13	PASS
Band41	10MHz	16QAM	41190	50RB#0	5.21	13	PASS
Band41	15MHz	QPSK	40315	1RB#0	3.24	13	PASS
Band41	15MHz	QPSK	40315	75RB#0	5.14	13	PASS
Band41	15MHz	QPSK	40740	1RB#0	3.34	13	PASS
Band41	15MHz	QPSK	40740	75RB#0	4.72	13	PASS
Band41	15MHz	QPSK	41165	1RB#0	3.19	13	PASS
Band41	15MHz	QPSK	41165	75RB#0	4.52	13	PASS
Band41	15MHz	16QAM	40315	1RB#0	4.64	13	PASS
Band41	15MHz	16QAM	40315	75RB#0	5.91	13	PASS
Band41	15MHz	16QAM	40740	1RB#0	4.75	13	PASS
Band41	15MHz	16QAM	40740	75RB#0	5.54	13	PASS
Band41	15MHz	16QAM	41165	1RB#0	4.35	13	PASS
Band41	15MHz	16QAM	41165	75RB#0	5.36	13	PASS

Band41	20MHz	QPSK	40340	1RB#0	3.22	13	PASS
Band41	20MHz	QPSK	40340	100RB#0	5.15	13	PASS
Band41	20MHz	QPSK	40740	1RB#0	3.41	13	PASS
Band41	20MHz	QPSK	40740	100RB#0	4.87	13	PASS
Band41	20MHz	QPSK	41140	1RB#0	3.31	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	4.77	13	PASS
Band41	20MHz	16QAM	40340	1RB#0	4.52	13	PASS
Band41	20MHz	16QAM	40340	100RB#0	5.91	13	PASS
Band41	20MHz	16QAM	40740	1RB#0	4.24	13	PASS
Band41	20MHz	16QAM	40740	100RB#0	5.63	13	PASS
Band41	20MHz	16QAM	41140	1RB#0	3.88	13	PASS
Band41	20MHz	16QAM	41140	100RB#0	5.56	13	PASS

Test Graphs

Band7_5MHz_QPSK_20775_1RB#0



Band7_5MHz_QPSK_20775_25RB#0



Band7_5MHz_QPSK_21100_1RB#0



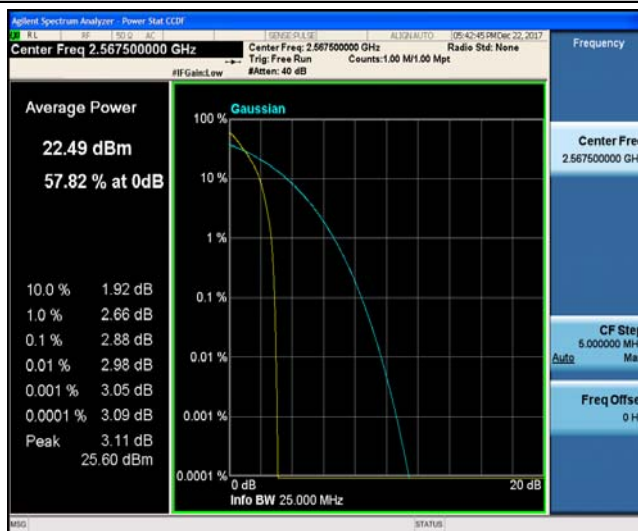
Band7_5MHz_QPSK_21100_25RB#0



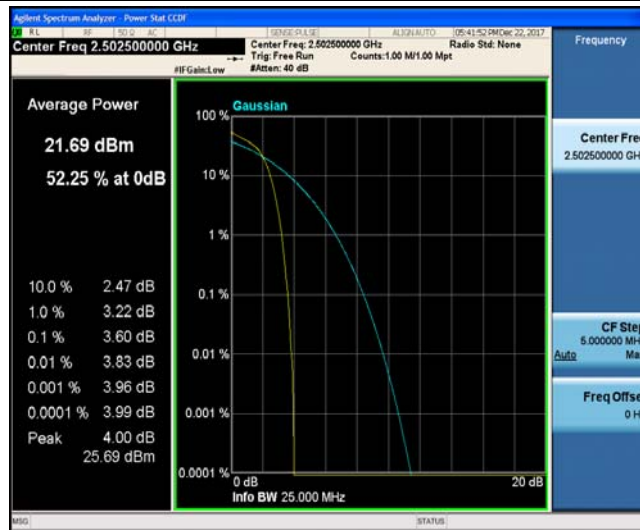
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Band7_5MHz_QPSK_21425_25RB#0



Band7_5MHz_16QAM_20775_1RB#0



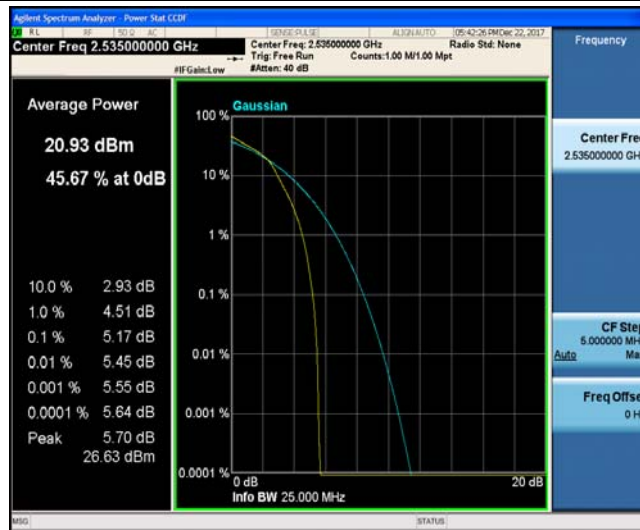
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Band7_5MHz_16QAM_21100_1RB#0



Band7_5MHz_16QAM_21100_25RB#0



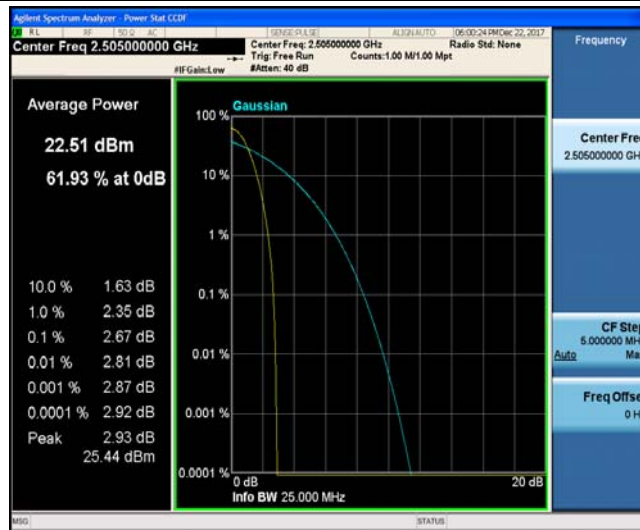
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Band7_5MHz_16QAM_21425_25RB#0



Band7_10MHz_QPSK_20800_1RB#0



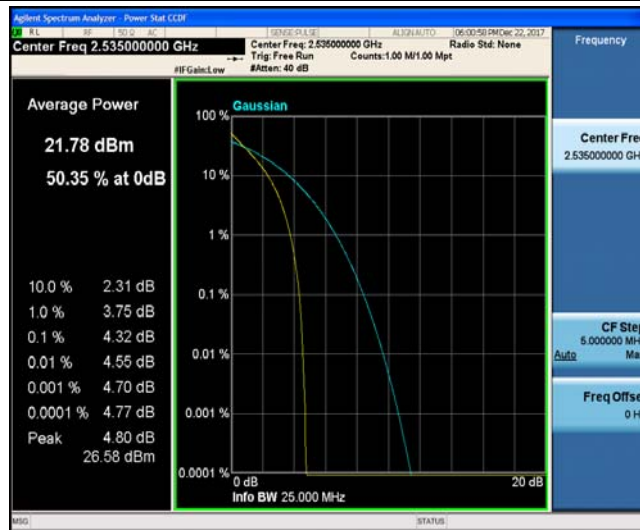
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Band7_10MHz_QPSK_21100_1RB#0



Band7_10MHz_QPSK_21100_50RB#0



Band7_10MHz_QPSK_21400_1RB#0



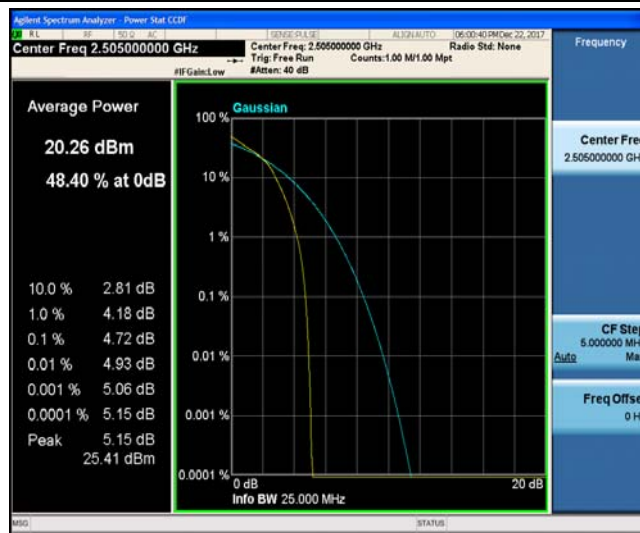
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Band7_10MHz_16QAM_20800_1RB#0



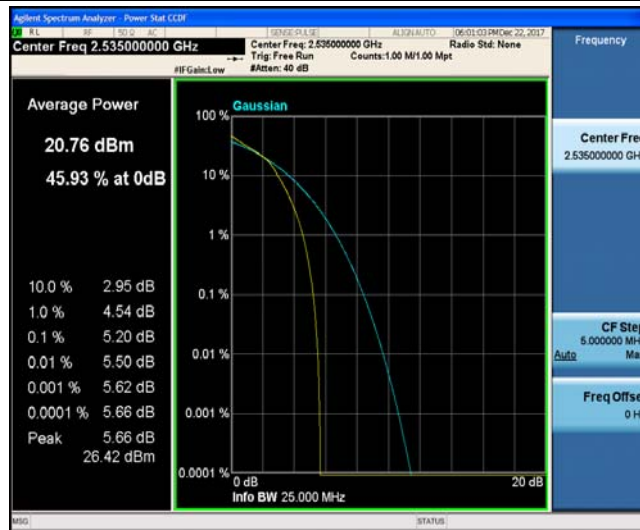
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Band7_10MHz_16QAM_21100_1RB#0



Band7_10MHz_16QAM_21100_50RB#0



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Band7_10MHz_16QAM_21400_50RB#0



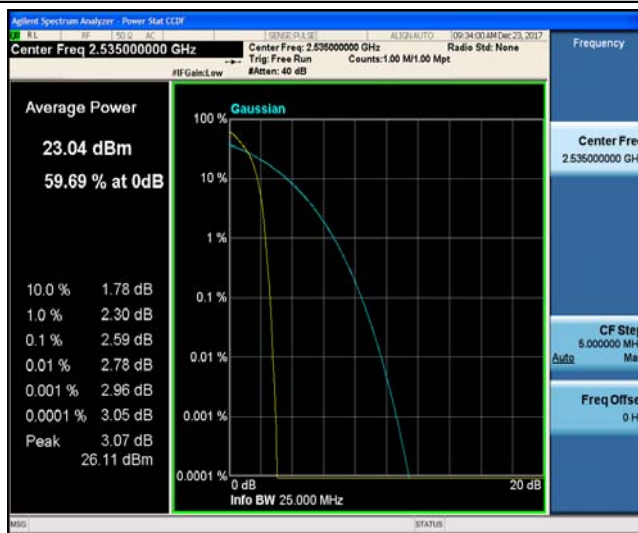
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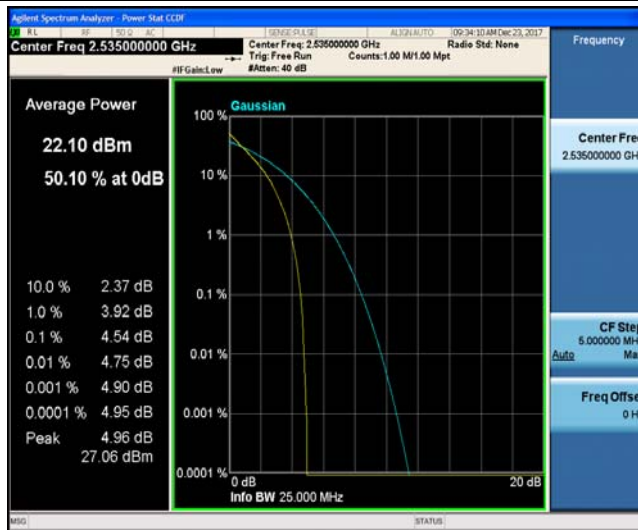
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Band7_15MHz_QPSK_21100_1RB#0



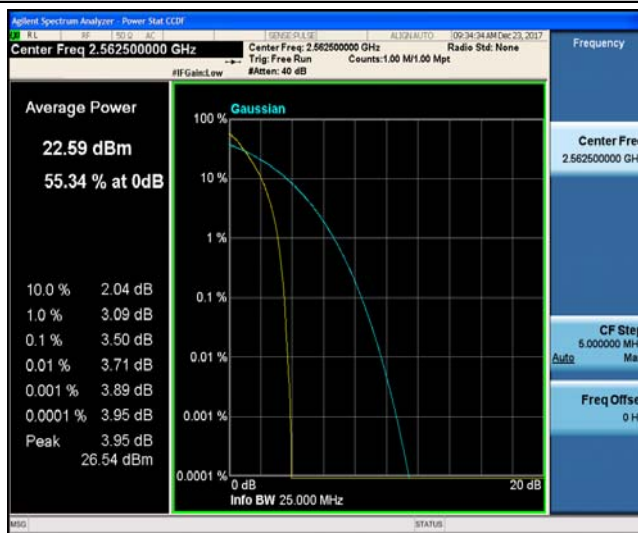
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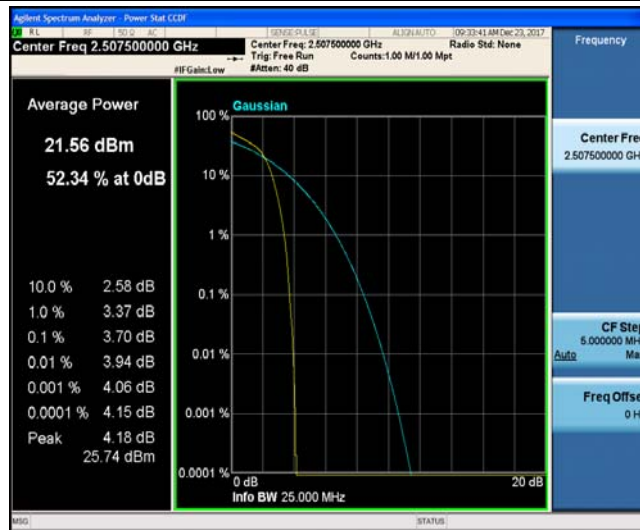
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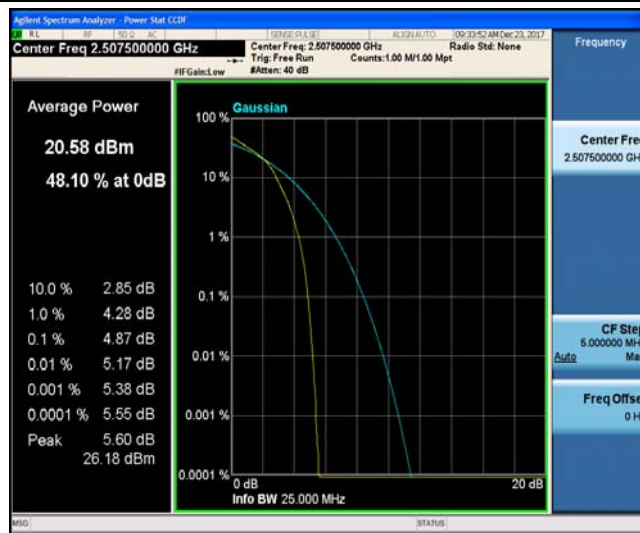
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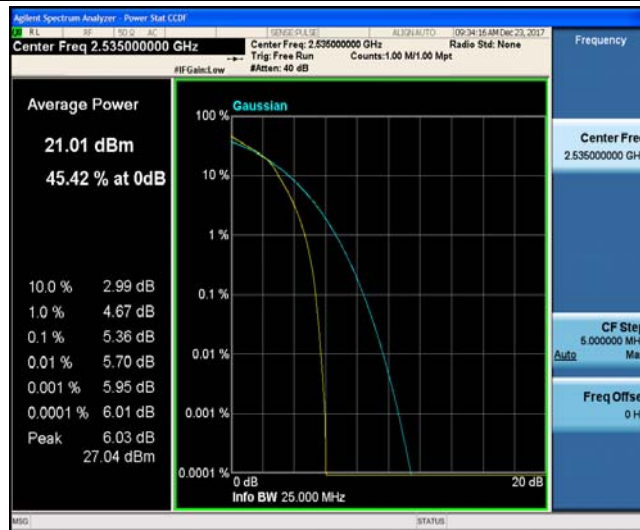
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Band7_15MHz_16QAM_21100_1RB#0



Band7_15MHz_16QAM_21100_75RB#0



Band7_15MHz_16QAM_21375_1RB#0



Band7_15MHz_16QAM_21375_75RB#0



Band7_20MHz_QPSK_20850_1RB#0



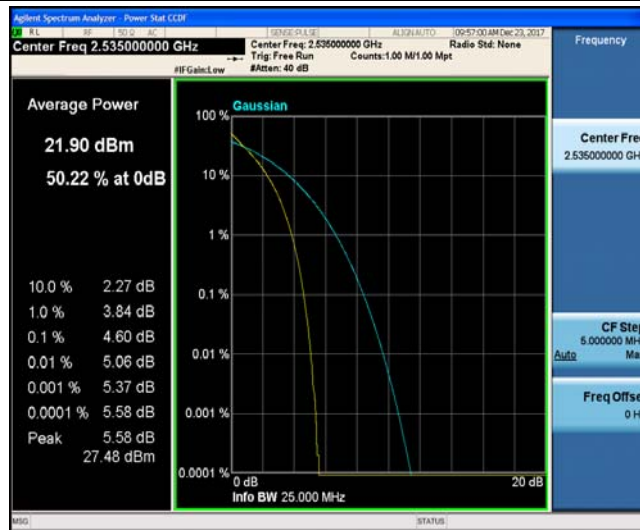
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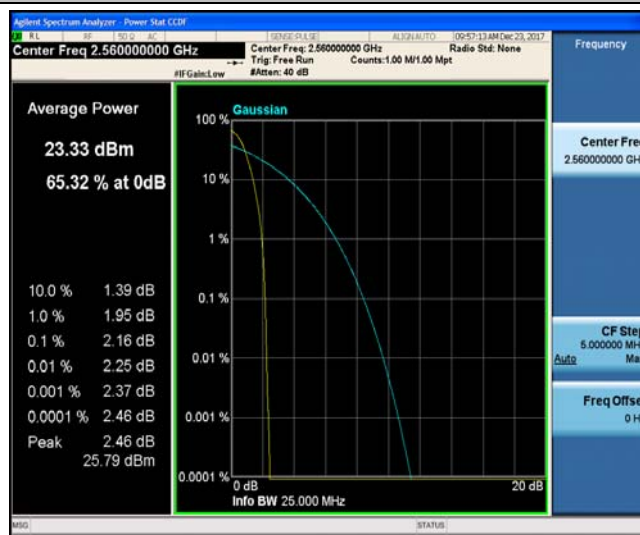
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Band7_20MHz_QPSK_21100_100RB#0



Band7_20MHz_QPSK_21350_1RB#0



Band7_20MHz_QPSK_21350_100RB#0



Band7_20MHz_16QAM_20850_1RB#0



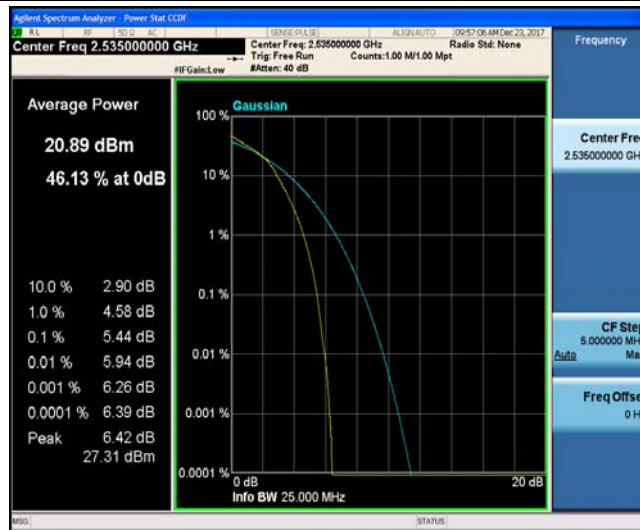
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Band7_20MHz_16QAM_21100_1RB#0



Band7_20MHz_16QAM_21100_100RB#0



Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_100RB#0



Band41_5MHz_QPSK_40265_1RB#0



Band41_5MHz_QPSK_40265_25RB#0



Band41_5MHz_QPSK_40740_1RB#0



Band41_5MHz_QPSK_40740_25RB#0



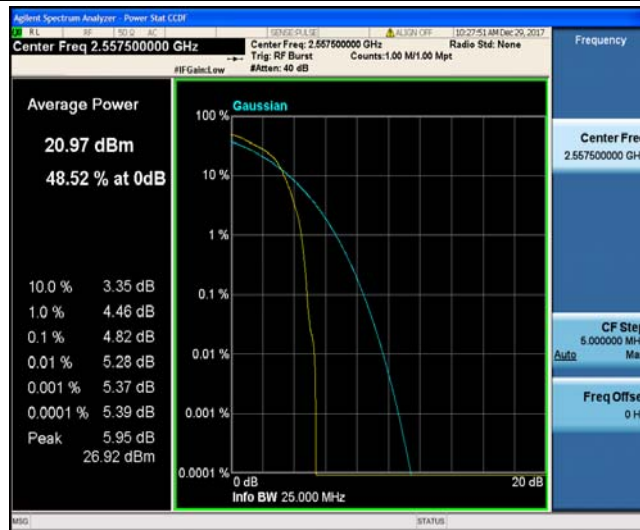
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Band41_5MHz_QPSK_41215_25RB#0



Band41_5MHz_16QAM_40265_1RB#0



Band41_5MHz_16QAM_40265_25RB#0



Band41_5MHz_16QAM_40740_1RB#0



Band41_5MHz_16QAM_40740_25RB#0



Band41_5MHz_16QAM_41215_1RB#0



Band41_5MHz_16QAM_41215_25RB#0



Band41_10MHz_QPSK_40290_1RB#0



Band41_10MHz_QPSK_40290_50RB#0



Band41_10MHz_QPSK_40740_1RB#0



Band41_10MHz_QPSK_40740_50RB#0



Band41_10MHz_QPSK_41190_1RB#0



Band41_10MHz_QPSK_41190_50RB#0



Band41_10MHz_16QAM_40290_1RB#0



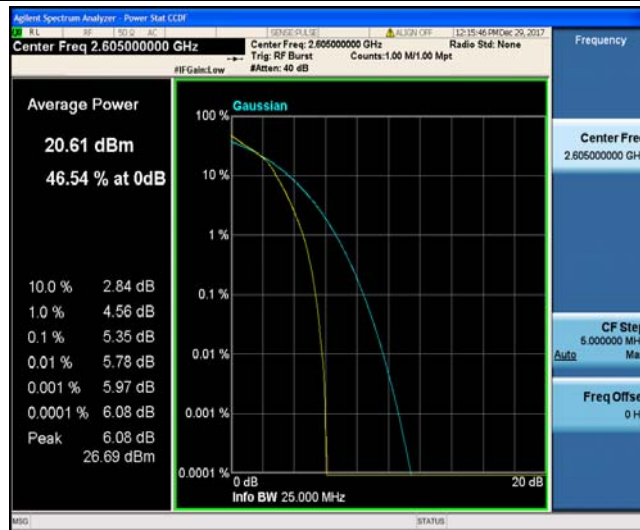
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Band41_10MHz_16QAM_40740_1RB#0



Band41_10MHz_16QAM_40740_50RB#0



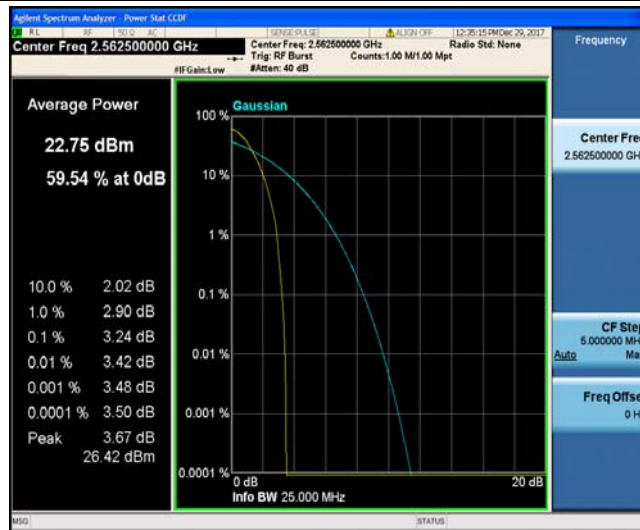
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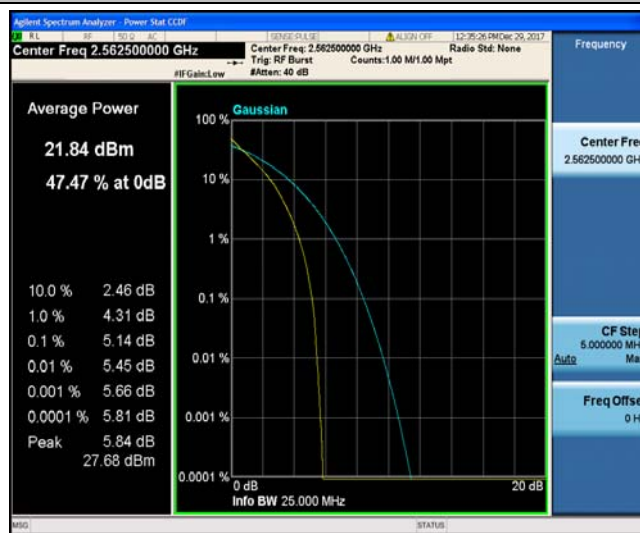
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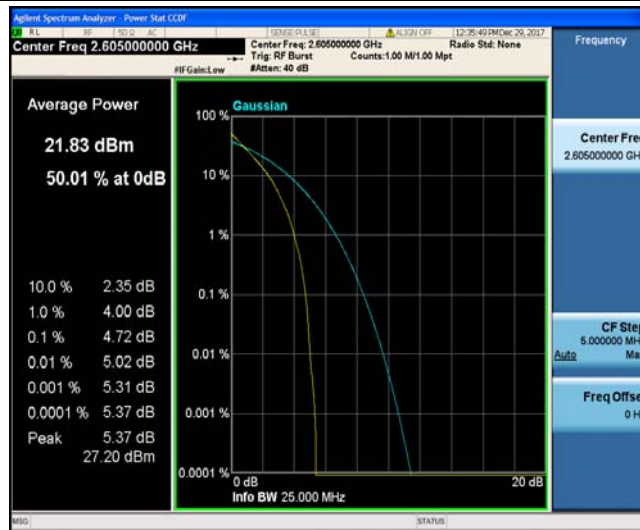
Band41_15MHz_QPSK_40315_75RB#0



Band41_15MHz_QPSK_40740_1RB#0



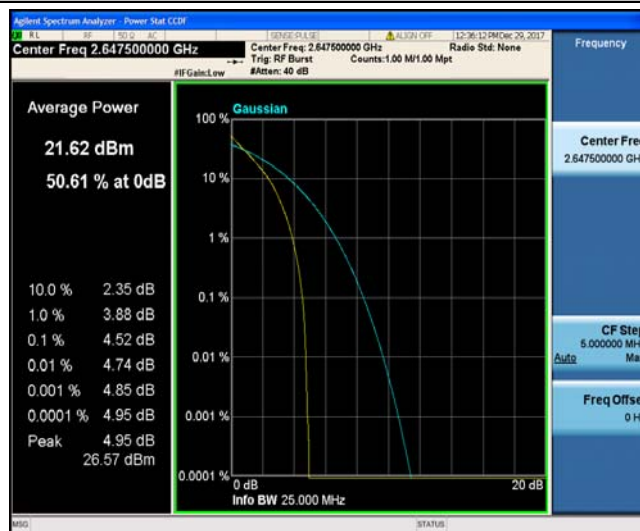
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Band41_15MHz_QPSK_41165_1RB#0



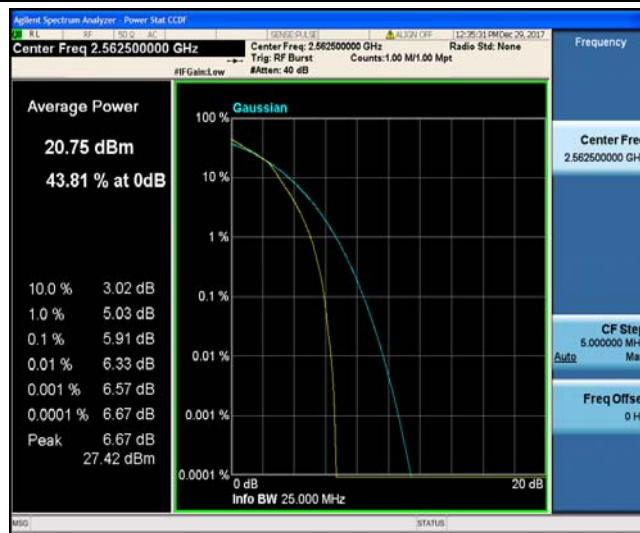
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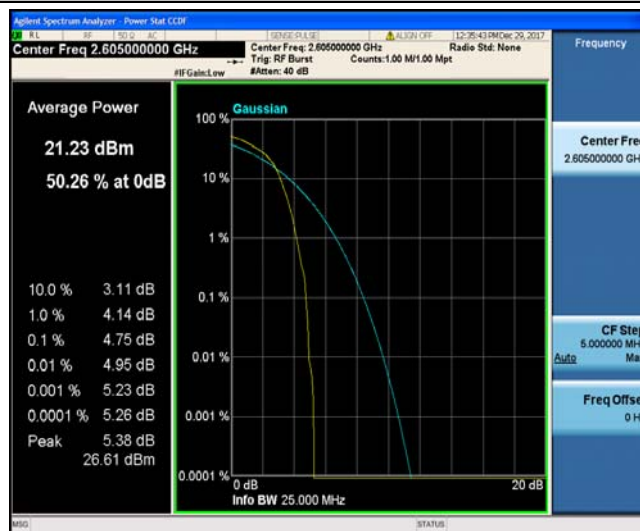
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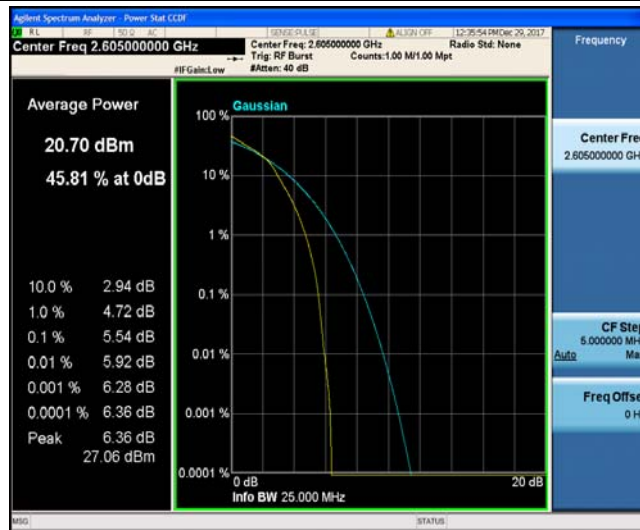
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Band41_15MHz_16QAM_40740_1RB#0



Band41_15MHz_16QAM_40740_75RB#0



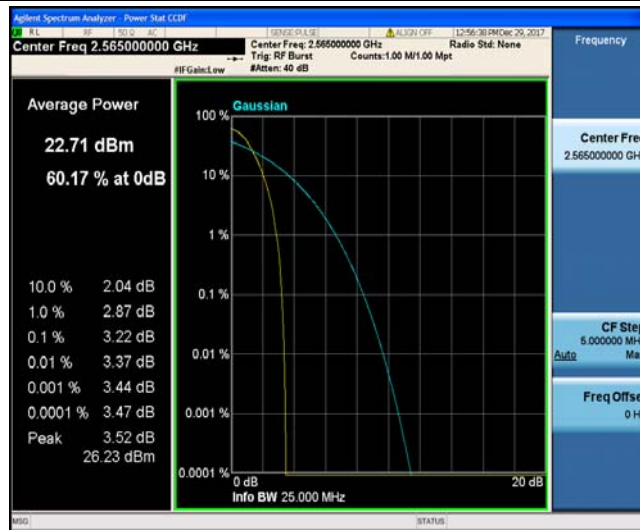
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Band41_15MHz_16QAM_41165_75RB#0



Band41_20MHz_QPSK_40340_1RB#0



Band41_20MHz_QPSK_40340_100RB#0



Band41_20MHz_QPSK_40740_1RB#0



Band41_20MHz_QPSK_40740_100RB#0



Band41_20MHz_QPSK_41140_1RB#0



Band41_20MHz_QPSK_41140_100RB#0



Band41_20MHz_16QAM_40340_1RB#0



Band41_20MHz_16QAM_40340_100RB#0



Band41_20MHz_16QAM_40740_1RB#0



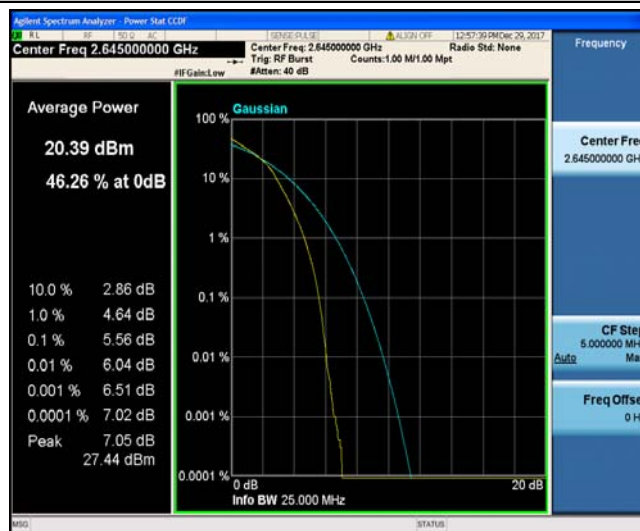
Band41_20MHz_16QAM_40740_100RB#0



Band41_20MHz_16QAM_41140_1RB#0



Band41_20MHz_16QAM_41140_100RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5196	5.098	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5363	5.074	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5253	5.175	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5173	5.084	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5227	5.092	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5283	5.073	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9511	9.810	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9420	9.733	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9799	9.890	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9609	9.770	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9434	9.798	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9581	9.859	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.550	15.15	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.526	14.99	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.539	15.74	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.523	15.21	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.474	14.91	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.554	16.03	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.943	19.64	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.944	19.57	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.980	19.53	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.929	19.51	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.919	19.54	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.954	19.55	PASS
Band41	5MHz	QPSK	40265	25RB#0	4.5127	5.120	PASS
Band41	5MHz	QPSK	40740	25RB#0	4.5026	5.186	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.5168	5.175	PASS
Band41	5MHz	16QAM	40265	25RB#0	4.5041	5.056	PASS
Band41	5MHz	16QAM	40740	25RB#0	4.5157	5.047	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.5133	5.110	PASS
Band41	10MHz	QPSK	40290	50RB#0	8.9459	9.811	PASS
Band41	10MHz	QPSK	40740	50RB#0	8.9524	9.692	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.9304	9.751	PASS
Band41	10MHz	16QAM	40290	50RB#0	8.9376	9.856	PASS
Band41	10MHz	16QAM	40740	50RB#0	8.9339	9.647	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.9348	9.680	PASS
Band41	15MHz	QPSK	40315	75RB#0	13.472	14.83	PASS
Band41	15MHz	QPSK	40740	75RB#0	13.468	14.86	PASS

Band41	15MHz	QPSK	41165	75RB#0	13.501	15.55	PASS
Band41	15MHz	16QAM	40315	75RB#0	13.491	14.88	PASS
Band41	15MHz	16QAM	40740	75RB#0	13.478	14.89	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.500	15.10	PASS
Band41	20MHz	QPSK	40340	100RB#0	17.896	19.40	PASS
Band41	20MHz	QPSK	40740	100RB#0	17.927	19.28	PASS
Band41	20MHz	QPSK	41140	100RB#0	17.924	19.23	PASS
Band41	20MHz	16QAM	40340	100RB#0	17.901	19.51	PASS
Band41	20MHz	16QAM	40740	100RB#0	17.915	19.30	PASS
Band41	20MHz	16QAM	41140	100RB#0	17.897	19.36	PASS

Test Graphs

Band7_5MHz_QPSK_20775_25RB#0



Band7_5MHz_QPSK_21100_25RB#0



Band7_5MHz_QPSK_21425_25RB#0



Band7_5MHz_16QAM_20775_25RB#0



Band7_5MHz_16QAM_21100_25RB#0



Band7_5MHz_16QAM_21425_25RB#0



Band7_10MHz_QPSK_20800_50RB#0



Band7_10MHz_QPSK_21100_50RB#0



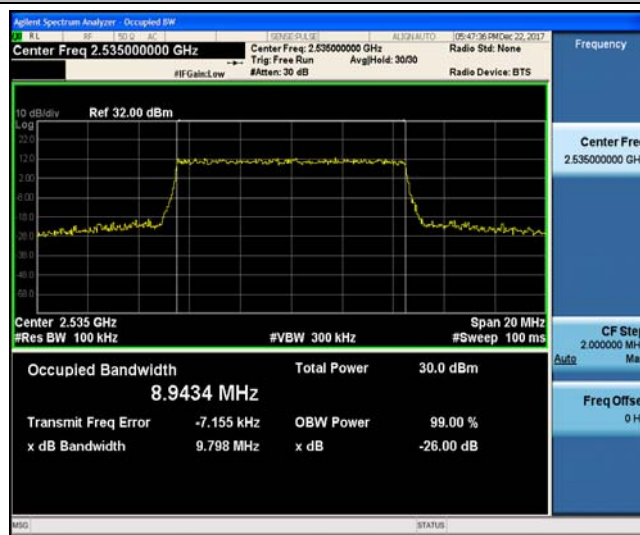
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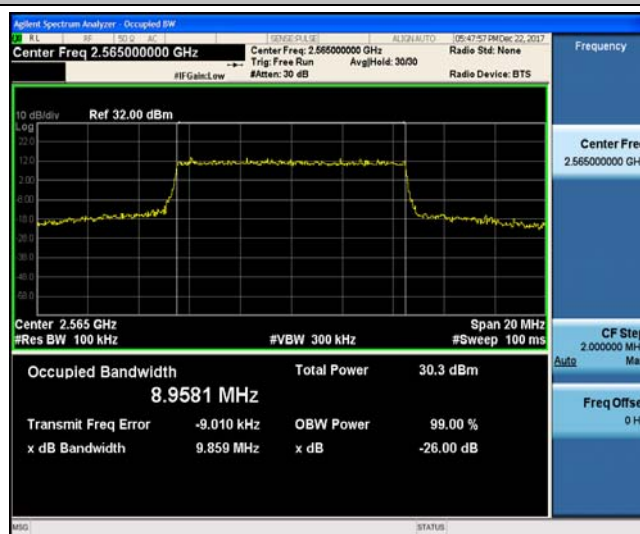
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Band7_10MHz_16QAM_2100_50RB#0



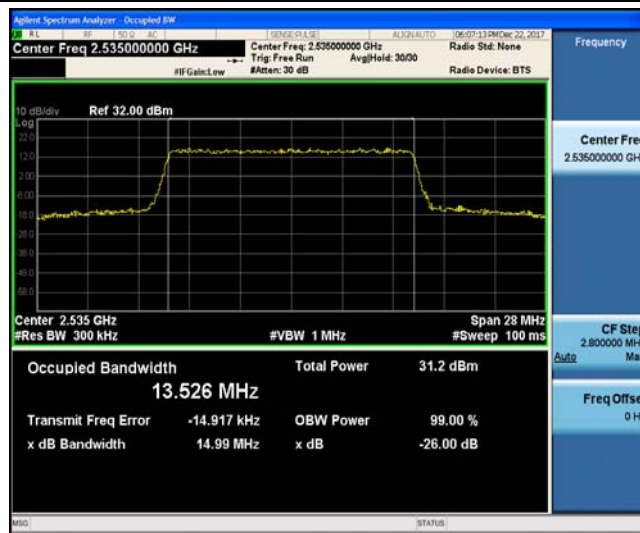
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Band7_15MHz_QPSK_20825_75RB#0



Band7_15MHz_QPSK_21100_75RB#0



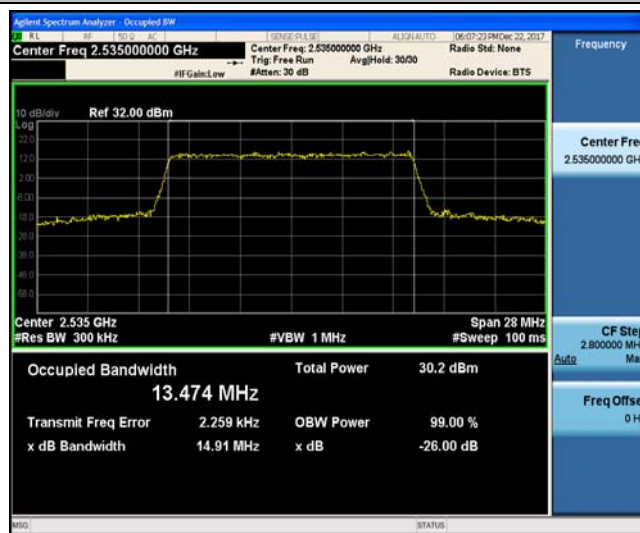
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Band7_15MHz_16QAM_2100_75RB#0



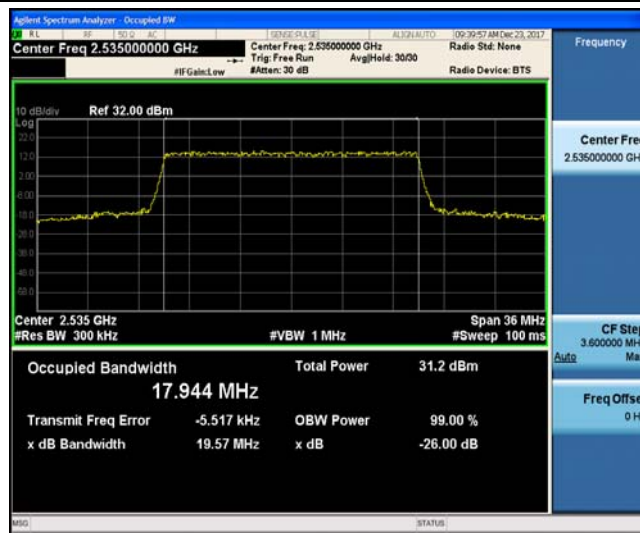
Band7_15MHz_16QAM_21375_75RB#0



Band7_20MHz_QPSK_20850_100RB#0



Band7_20MHz_QPSK_21100_100RB#0



Band7_20MHz_QPSK_21350_100RB#0



Band7_20MHz_16QAM_20850_100RB#0