

TEST REPORT

Applicant: Roadefend Intelligence Technology (Shanghai) Co., Ltd.
Address of Applicant: Room 01, level3, block B3, lane221, Huangxing Road Yangpu District, Shanghai, China
Manufacturer/Factory: Roadefend Intelligence Technology (Shanghai) Co., Ltd.
Address of Manufacturer/Factory: Room 01, level3, block B3, lane221, Huangxing Road Yangpu District, Shanghai, China
Equipment Under Test (EUT)

Product Name: Active Safety Intelligent Control System

Model No.: RDT500B

Trade mark: N/A

FCC ID: 2AXWG-RDT500B

Applicable standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 27

Date of sample receipt: 2021-01-05

Date of Test: 2021-01-05-2021-01-25

Date of report issued: 2021-02-01

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

A circular blue ink stamp from GTS (Global United Technology Services Co., Ltd.) is visible. The stamp contains the text "GTS", "GLOBAL UNITED TECHNOLOGY SERVICES CO., LTD.", and "198019". A handwritten signature in blue ink is written over the stamp.

Robinson Luo

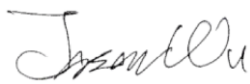
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	2021-02-01	Original

Prepared By:

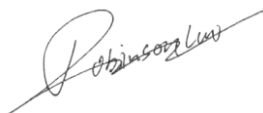


Date:

2021-02-01

Project Engineer

Check By:



Date:

2021-02-01

Reviewer

3 Contents

Page

1	COVER PAGE	1
2	VERSION	2
3	CONTENTS	3
4	TEST SUMMARY	4
5	GENERAL INFORMATION	5
5.1	GENERAL DESCRIPTION OF EUT	5
5.2	RELATED SUBMITTAL(S) / GRANT (S)	7
5.3	TEST METHODOLOGY	7
5.4	TEST FACILITY	7
5.5	TEST LOCATION.....	7
6	TEST INSTRUMENTS LIST	8
7	SYSTEM TEST CONFIGURATION	10
7.1	TEST MODE	10
7.2	CONFIGURATION OF TESTED SYSTEM	10
7.3	CONDUCTED OUTPUT POWER	11
7.4	PEAK-TO-AVERAGE RATIO	16
7.5	OCCUPY BANDWIDTH.....	22
7.6	MODULATION CHARACTERISTIC	28
7.7	OUT OF BAND EMISSION AT ANTENNA TERMINALS.....	28
7.8	ERP, EIRP MEASUREMENT	45
7.9	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	49
7.10	FREQUENCY STABILITY.....	51
8	TEST SETUP PHOTO	56
9	EUT CONSTRUCTIONAL DETAILS	57

4 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass* (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 27.50(c)(10)/(d)(4)	Pass
Peak-to-Average Ratio	FCC Part 27.50(a)	Pass
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(h)/(g)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53(h)/(g)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 27.53(h)/(g)	Pass
Out of band emission, Band Edge	Part 27.53(h)/(g)	Pass
Frequency stability	Part 2.1055(a)(1)(b) Part 2.1055(d)(1)(2)	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. N/A: Not applicable.

5 General Information

5.1 General Description of EUT

Product Name:	Active Safety Intelligent Control System
Model No.:	RDT500B
Serial No.:	N/A
Hardware Version:	HVL2.1
Software Version:	1.2.58
Tested Sample(s) ID:	GTSL202012000202-2
Support Networks:	LTE
Support Bands:	LTE BAND 41
TX Frequency:	LTE BAND 41:2496-2690MHz
Modulation type:	QPSK, 16QAM
Antenna type:	Internal antenna
Antenna gain:	2.0dBi
Power supply:	DC 9-36V

Test Frequency

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 41	5M	Channel 20407	Channel 20525	Channel 20643
		2498.5 MHz	2593.0 MHz	2687.5 MHz
	10M	Channel 20415	Channel 20525	Channel 20635
		2501.0 MHz	2593.0 MHz	2685.0 MHz
	15M	Channel 20425	Channel 20525	Channel 20625
		2503.5 MHz	2593.0 MHz	2682.5 MHz
	20M	Channel 20450	Channel 20525	Channel 20600
		2506.0 MHz	2593.0 MHz	2680.0 MHz

5.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22/24/27 of the FCC CFR 47 Rules.

5.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on ANSI C63.26:2015 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 381383.

- **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

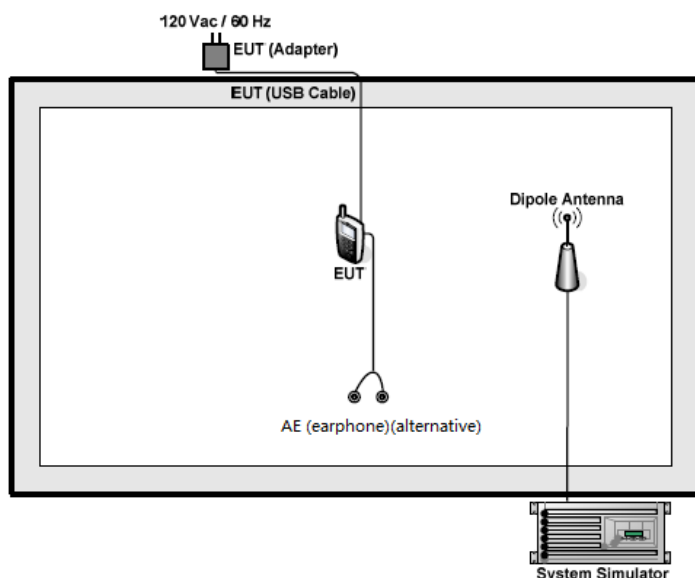
7 System test configuration

7.1 Test mode

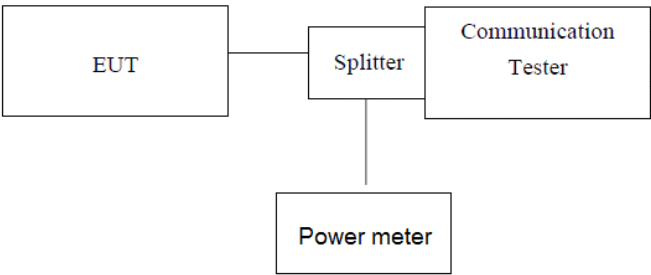
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
LTE Band 41	■ QPSK and 16QAM link	■ QPSK and 16QAM link

7.2 Configuration of Tested System



7.3 Conducted Output Power

Test Requirement:	Part 27.50
Test Method:	FCC part2.1046
Limit:	LTE Band 41:2W
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass

Measurement Data:

Note: Measurement Uncertainty: ± 2.6 dB.

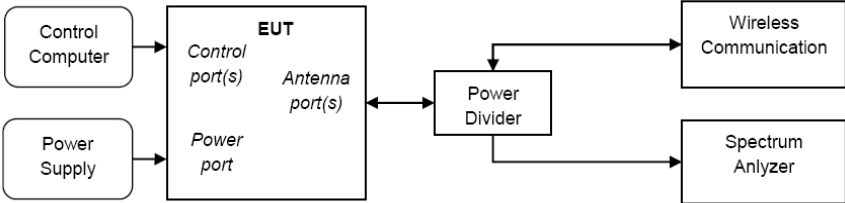
BW(MHz)	Freq(MHz)	Mode	RB Size/Offset	Average Power (dBm)	Tune up limited(dBm)	MPR (dB)
5MHz	2498.5	QPSK	1	22.58	22.0±1	/
			1	22.50	22.0±1	/
			1	22.52	22.0±1	/
			12	22.44	22.0±1	1.0
			12	22.59	22.0±1	1.0
			12	22.41	22.0±1	1.0
			25	21.45	21.0±1	1.0
		16QAM	1	22.09	22.0±1	1.0
			1	22.05	22.0±1	1.0
			1	22.20	22.0±1	1.0
			12	21.31	21.0±1	2.0
			12	21.43	21.0±1	2.0
			12	21.36	21.0±1	2.0
			25	20.96	20.0±1	2.0
	2593.0	QPSK	1	22.61	22.0±1	/
			1	22.54	22.0±1	/
			1	22.51	22.0±1	/
			12	22.31	22.0±1	1.0
			12	22.36	22.0±1	1.0
			12	22.27	22.0±1	1.0
			25	21.13	21.0±1	1.0
		16QAM	1	22.23	22.0±1	1.0
			1	22.18	22.0±1	1.0
			1	22.20	22.0±1	1.0
			12	21.07	21.0±1	2.0
			12	21.31	21.0±1	2.0
			12	21.07	21.0±1	2.0
			25	20.27	20.0±1	2.0
	848.5	QPSK	1	22.54	22.0±1	/
			1	22.52	22.0±1	/
			1	22.44	22.0±1	/
			12	22.06	22.0±1	1.0
			12	22.05	22.0±1	1.0
			12	22.00	22.0±1	1.0
			25	21.85	21.0±1	1.0
		16QAM	1	21.87	21.0±1	1.0
			1	21.76	21.0±1	1.0
			1	21.82	21.0±1	1.0
			12	21.22	21.0±1	2.0
			12	21.51	21.0±1	2.0
			12	21.23	21.0±1	2.0
			25	20.28	20.0±1	2.0

BW(MHz)	Freq(MHz)	Mode	RB Size/Offset	Average Power (dBm)	Tune up limited(dBm)	MPR (dB)
10MHz	2501.0	QPSK	1	22.51	22.0±1	/
			1	22.50	22.0±1	/
			1	22.45	22.0±1	/
			25	22.10	22.0±1	1.0
			25	22.00	22.0±1	1.0
			25	22.05	22.0±1	1.0
			50	21.01	21.0±1	1.0
		16QAM	1	21.95	21.0±1	1.0
			1	21.92	21.0±1	1.0
			1	21.27	21.0±1	1.0
			25	21.39	21.0±1	2.0
			25	21.11	21.0±1	2.0
			25	21.31	21.0±1	2.0
			50	20.33	20.0±1	2.0
	2593.0	QPSK	1	22.51	22.0±1	/
			1	22.41	22.0±1	/
			1	22.46	22.0±1	/
			25	22.18	22.0±1	1.0
			25	22.12	22.0±1	1.0
			25	22.11	22.0±1	1.0
			50	21.25	21.0±1	1.0
		16QAM	1	22.21	22.0±1	1.0
			1	22.36	22.0±1	1.0
			1	22.27	22.0±1	1.0
			25	21.39	21.0±1	2.0
			25	21.48	21.0±1	2.0
			25	21.11	21.0±1	2.0
			50	21.17	21.0±1	2.0
	2685.0	QPSK	1	22.47	22.0±1	/
			1	22.55	22.0±1	/
			1	22.51	22.0±1	/
			25	22.46	22.0±1	1.0
			25	21.76	21.0±1	1.0
			25	21.95	21.0±1	1.0
			50	20.68	20.0±1	1.0
		16QAM	1	21.81	22.0±1	1.0
			1	21.92	22.0±1	1.0
			1	21.95	22.0±1	1.0
			25	21.11	21.0±1	2.0
			25	21.20	21.0±1	2.0
			25	21.14	21.0±1	2.0
			50	20.56	20.0±1	2.0

BW(MHz)	Freq(MHz)	Mode	RB Size/Offset	Average Power (dBm)	Tune up limited(dBm)	MPR (dB)
15MHz	2503.5	QPSK	1	22.54	23.0±1	/
			1	22.48	23.0±1	/
			1	22.61	23.0±1	/
			36	22.16	22.0±1	1.0
			36	22.01	22.0±1	1.0
			36	22.06	22.0±1	1.0
			75	20.29	20.0±1	1.0
		16QAM	1	22.08	22.0±1	1.0
			1	22.16	22.0±1	1.0
			1	22.13	22.0±1	1.0
			36	21.33	21.0±1	2.0
			36	21.48	21.0±1	2.0
			36	21.39	21.0±1	2.0
			75	20.12	20.0±1	2.0
	2593.0	QPSK	1	22.48	22.0±1	/
			1	22.33	22.0±1	/
			1	22.40	22.0±1	/
			36	21.24	21.0±1	1.0
			36	21.22	21.0±1	1.0
			36	21.23	21.0±1	1.0
			75	20.26	20.0±1	1.0
		16QAM	1	22.17	22.0±1	1.0
			1	22.15	22.0±1	1.0
			1	22.25	22.0±1	1.0
			36	21.16	21.0±1	2.0
			36	21.35	21.0±1	2.0
			36	21.20	21.0±1	2.0
			75	20.25	20.0±1	2.0
	2682.5	QPSK	1	22.53	22.0±1	/
			1	22.49	22.0±1	/
			1	22.51	22.0±1	/
			36	21.91	22.0±1	1.0
			36	22.00	22.0±1	1.0
			36	21.89	22.0±1	1.0
			75	20.74	20.0±1	1.0
		16QAM	1	22.04	22.0±1	1.0
			1	22.00	22.0±1	1.0
			1	21.97	22.0±1	1.0
			36	21.38	21.0±1	2.0
			36	21.34	21.0±1	2.0
			36	21.28	21.0±1	2.0
			75	20.30	20.0±1	2.0

BW(MHz)	Freq(MHz)	Mode	UL RB Allocation	Average Power (dBm)	Tune up limited(dBm)	MPR (dB)
20MHz	2506.0	QPSK	1	22.26	22.0±1	/
			1	22.18	22.0±1	/
			1	22.12	22.0±1	/
			50	21.24	21.0±1	1.0
			50	21.20	21.0±1	1.0
			50	21.24	21.0±1	1.0
			100	20.32	20.0±1	1.0
		16QAM	1	22.09	22.0±1	1.0
			1	22.03	22.0±1	1.0
			1	21.98	22.0±1	1.0
			50	21.15	21.0±1	2.0
			50	21.10	21.0±1	2.0
			50	21.05	21.0±1	2.0
			100	20.17	20.0±1	2.0
	2593	QPSK	1	22.38	22.0±1	/
			1	22.45	22.0±1	/
			1	22.34	22.0±1	/
			50	21.16	21.0±1	1.0
			50	21.17	21.0±1	1.0
			50	21.11	21.0±1	1.0
			100	20.17	20.0±1	1.0
		16QAM	1	22.04	22.0±1	1.0
			1	22.06	22.0±1	1.0
			1	22.01	22.0±1	1.0
			50	21.35	21.0±1	2.0
			50	21.34	21.0±1	2.0
			50	21.30	21.0±1	2.0
			100	20.04	20.0±1	2.0
	2680	QPSK	1	22.19	22.0±1	/
			1	22.12	22.0±1	/
			1	22.10	22.0±1	/
			50	21.14	21.0±1	1.0
			50	21.45	21.0±1	1.0
			50	21.54	21.0±1	1.0
			100	20.84	20.0±1	1.0
		16QAM	1	22.07	22.0±1	1.0
			1	22.03	22.0±1	1.0
			1	22.00	22.0±1	1.0
			50	21.29	21.0±1	2.0
			50	21.15	21.0±1	2.0
			50	21.24	21.0±1	2.0
			100	20.07	20.0±1	2.0

7.4 Peak-to-Average Ratio

Test Requirement:	FCC Part 27.50
Test Method:	FCC part2.1046
Limit:	13db
Test setup:	 <pre> graph LR CC[Control Computer] --> EUT[EUT] PS[Power Supply] --> EUT subgraph EUT_ports [EUT] direction TB CP[Control port(s)] AP[Antenna port(s)] PP[Power port] end AP <--> PD[Power Divider] PD --> WC[Wireless Communication] PD --> SA[Spectrum Analyzer] </pre>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

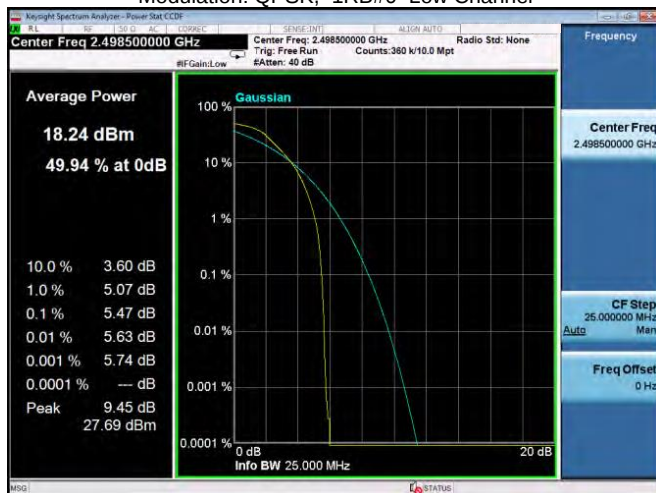
Remark: Both modulation modes have been tested, showing only the worst QPSK test data.

Measurement data:

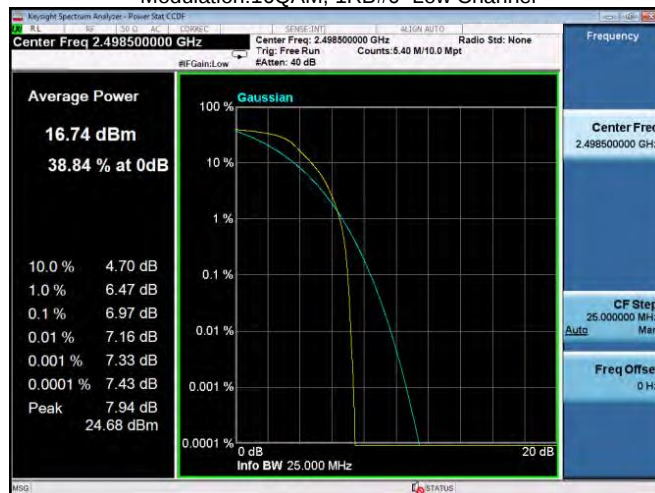
BW(MHz)	Frequency (MHz)	Modulation	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Result
5	2498.5	QPSK	0.1	5.47	13	Pass
		16QAM	0.1	6.97	13	Pass
5	2593.0	QPSK	0.1	7.82	13	Pass
		16QAM	0.1	7.76	13	Pass
5	2687.5	QPSK	0.1	9.26	13	Pass
		16QAM	0.1	9.11	13	Pass
10	2501.0	QPSK	0.1	8.12	13	Pass
		16QAM	0.1	7.96	13	Pass
10	2593.0	QPSK	0.1	8.37	13	Pass
		16QAM	0.1	8.56	13	Pass
10	2685.0	QPSK	0.1	9.27	13	Pass
		16QAM	0.1	8.52	13	Pass
15	2503.5	QPSK	0.1	7.38	13	Pass
		16QAM	0.1	8.07	13	Pass
15	2593.0	QPSK	0.1	9.43	13	Pass
		16QAM	0.1	9.26	13	Pass
15	2682.5	QPSK	0.1	8.05	13	Pass
		16QAM	0.1	8.53	13	Pass
20	2506.0	QPSK	0.1	10.22	13	Pass
		16QAM	0.1	10.16	13	Pass
20	2593.0	QPSK	0.1	8.10	13	Pass
		16QAM	0.1	7.96	13	Pass
20	2680.0	QPSK	0.1	8.10	13	Pass
		16QAM	0.1	8.05	13	Pass

LTE FDD Band 41– 5 MHz Channel Bandwidth

Modulation: QPSK, 1RB#0 Low Channel



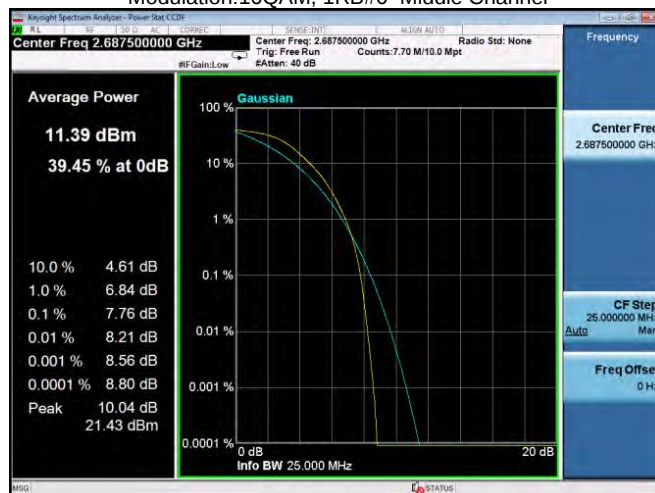
Modulation:16QAM, 1RB#0 Low Channel



Modulation: QPSK, 1RB#0 Middle Channel



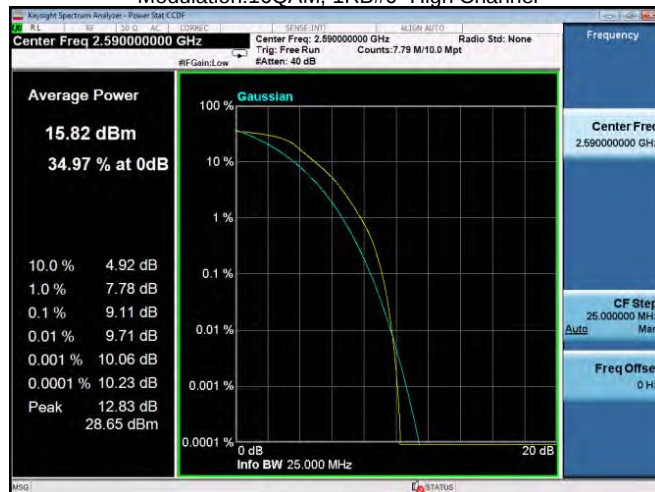
Modulation:16QAM, 1RB#0 Middle Channel



Modulation: QPSK, 1RB#0 High Channel



Modulation:16QAM, 1RB#0 High Channel

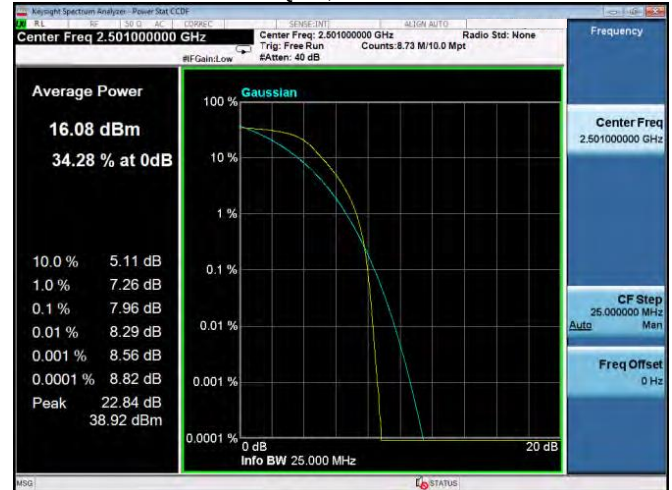


LTE FDD Band 41– 10 MHz Channel Bandwidth

Modulation: QPSK, 1RB#0 Low Channel



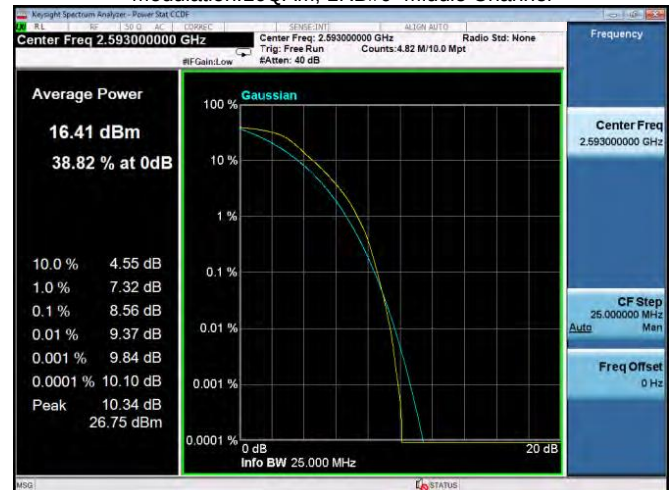
Modulation:16QAM, 1RB#0 Low Channel



Modulation: QPSK, 1RB#0 Middle Channel



Modulation:16QAM, 1RB#0 Middle Channel



Modulation: QPSK, 1RB#0 High Channel

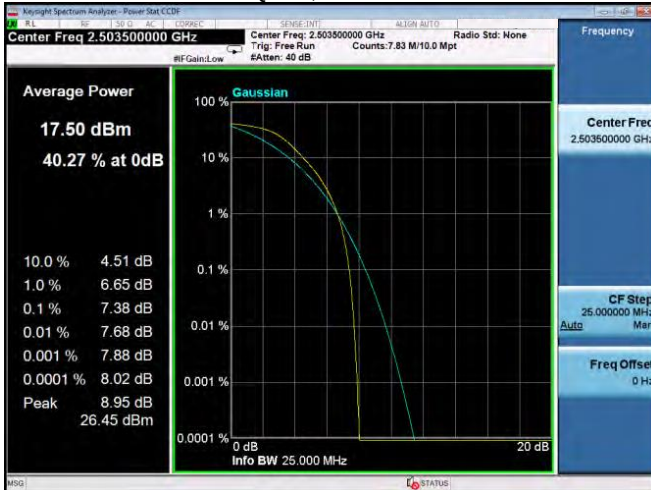


Modulation:16QAM, 1RB#0 High Channel

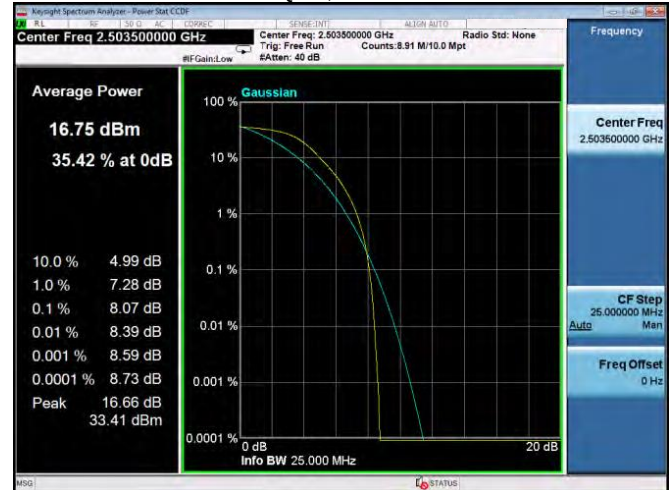


LTE FDD Band 41– 15 MHz Channel Bandwidth

Modulation: QPSK, 1RB#0 Low Channel



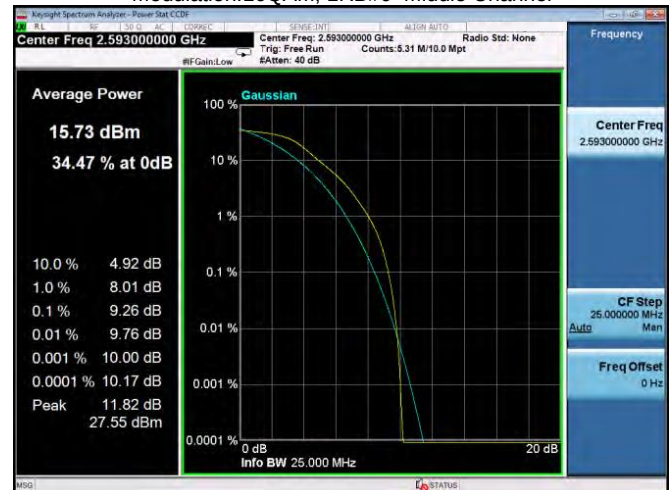
Modulation:16QAM, 1RB#0 Low Channel



Modulation: QPSK, 1RB#0 Middle Channel



Modulation:16QAM, 1RB#0 Middle Channel



Modulation: QPSK, 1RB#0 High Channel



Modulation:16QAM, 1RB#0 High Channel

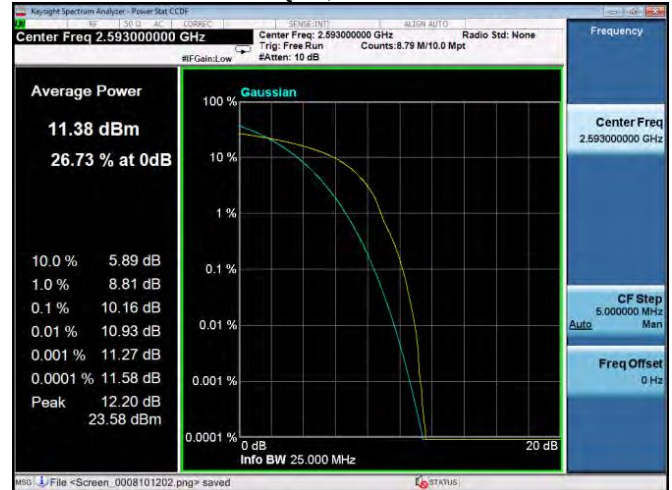


LTE FDD Band 41– 20 MHz Channel Bandwidth

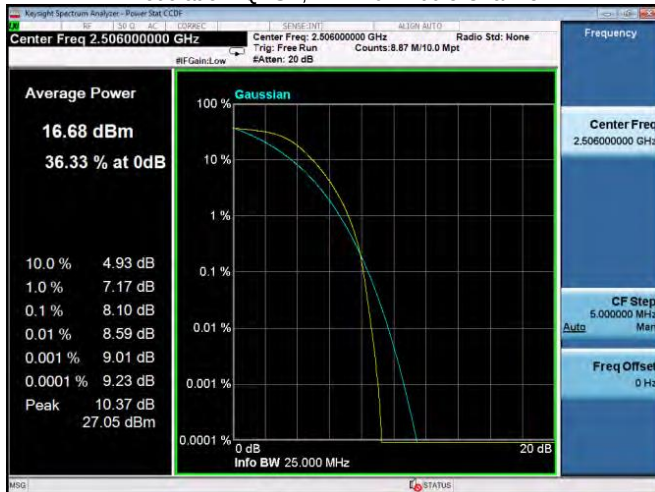
Modulation: QPSK, 1RB#0 Low Channel



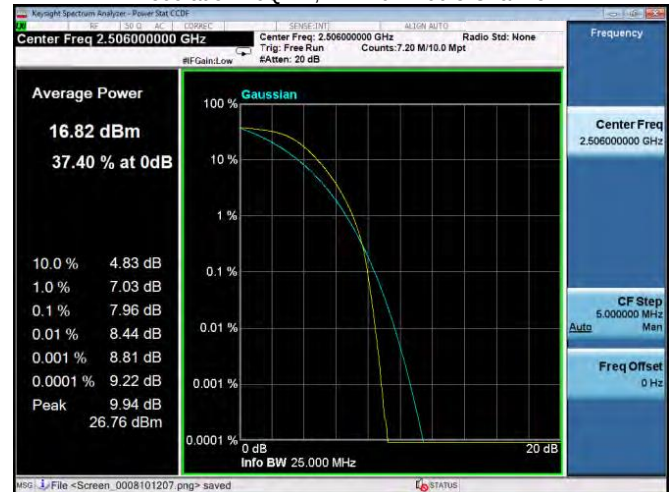
Modulation:16QAM, 1RB#0 Low Channel



Modulation: QPSK, 1RB#0 Middle Channel



Modulation:16QAM, 1RB#0 Middle Channel



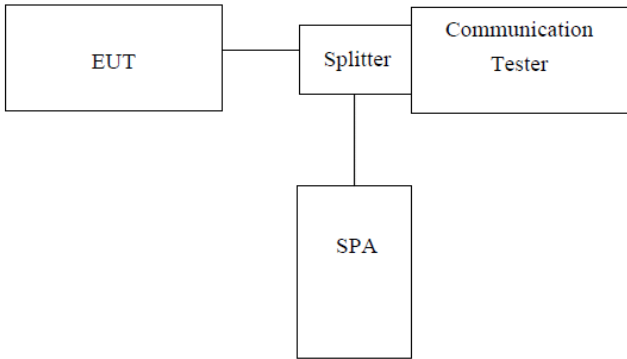
Modulation: QPSK, 1RB#0 High Channel



Modulation:16QAM, 1RB#0 High Channel



7.5 Occupy Bandwidth

Test Requirement:	Part 27.53
Test Method:	FCC part2.1049
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
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 Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass

Measurement Data:

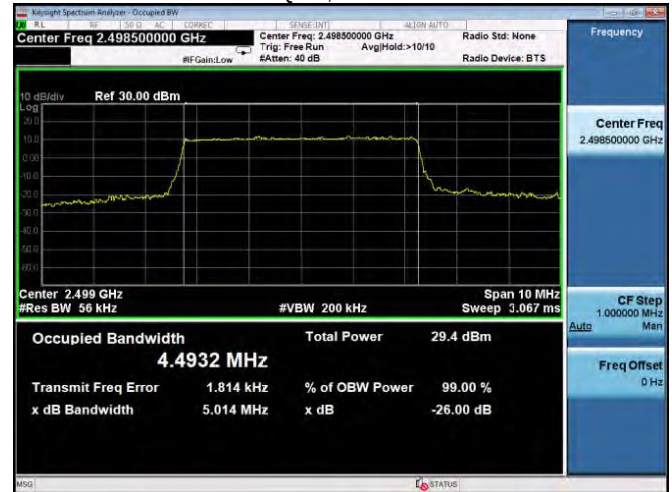
BW(MHz)	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
5	2498.5	QPSK	4.4922	4.988
		16QAM	4.4932	5.014
5	2593.0	QPSK	4.4848	4.945
		16QAM	4.4804	4.953
5	2687.5	QPSK	4.4869	4.936
		16QAM	4.4878	4.947
10	2501.0	QPSK	8.9467	9.615
		16QAM	8.9336	9.615
10	2593.0	QPSK	8.9369	9.791
		16QAM	8.9472	9.608
10	2685.0	QPSK	8.9197	9.629
		16QAM	8.9264	9.622
15	2503.5	QPSK	13.403	14.63
		16QAM	13.423	14.64
15	2593.0	QPSK	13.407	14.36
		16QAM	13.436	14.51
15	2682.5	QPSK	13.381	14.37
		16QAM	13.363	14.71
20	2506.0	QPSK	17.781	18.98
		16QAM	17.829	18.83
20	2593.0	QPSK	17.824	18.90
		16QAM	17.840	18.93
20	2680.0	QPSK	17.726	18.81
		16QAM	17.730	18.82

LTE FDD Band 41– 5 MHz Channel Bandwidth

Modulation: QPSK, 1RB#0 Low Channel



Modulation: 16QAM, 1RB#0 Low Channel



Modulation: QPSK, 1RB#0 Middle Channel



Modulation: 16QAM, 1RB#0 Middle Channel



Modulation: QPSK, 1RB#0 High Channel

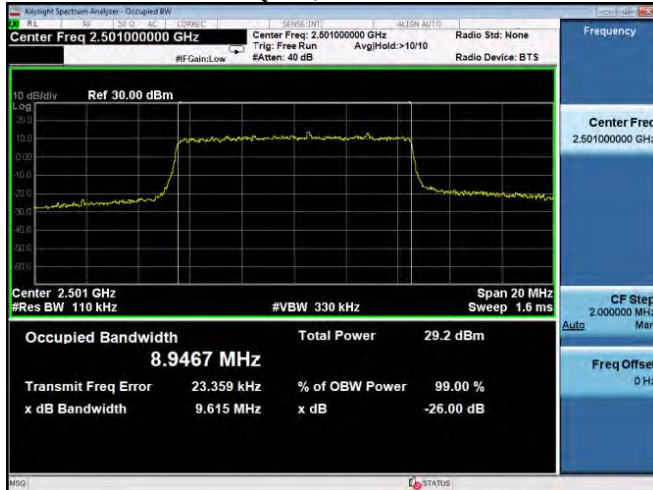


Modulation: 16QAM, 1RB#0 High Channel

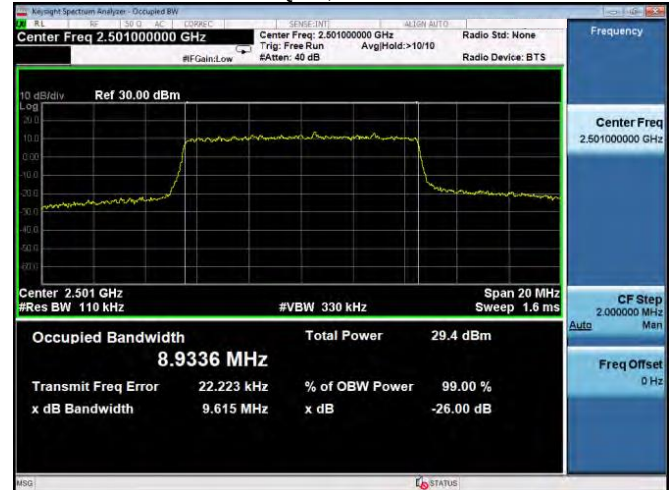


LTE FDD Band 41– 10 MHz Channel Bandwidth

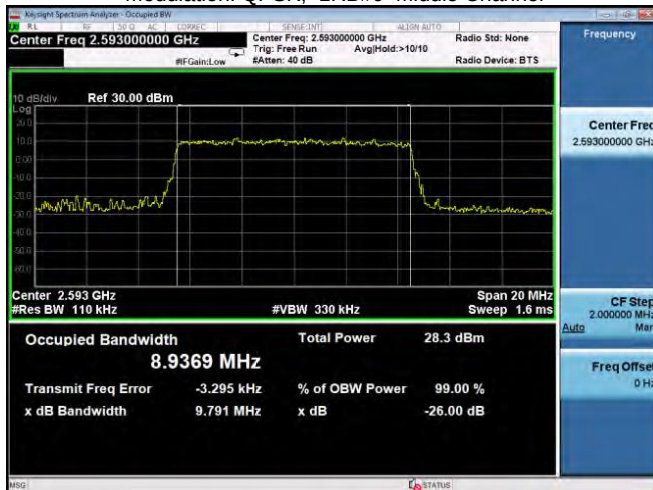
Modulation: QPSK, 1RB#0 Low Channel



Modulation:16QAM, 1RB#0 Low Channel



Modulation: QPSK, 1RB#0 Middle Channel



Modulation:16QAM, 1RB#0 Middle Channel



Modulation: QPSK, 1RB#0 High Channel

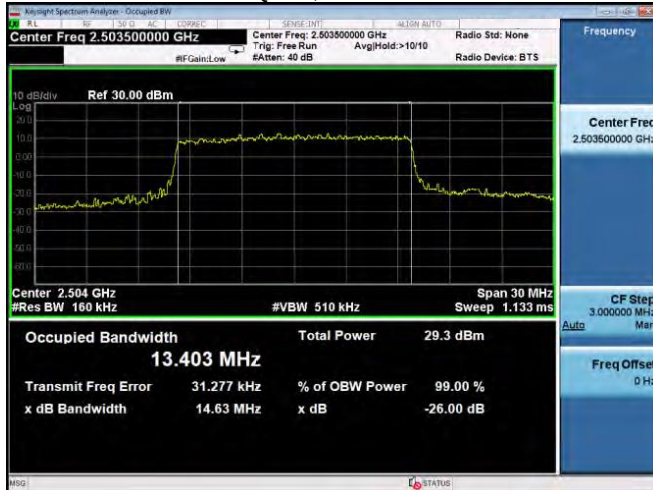


Modulation:16QAM, 1RB#0 High Channel

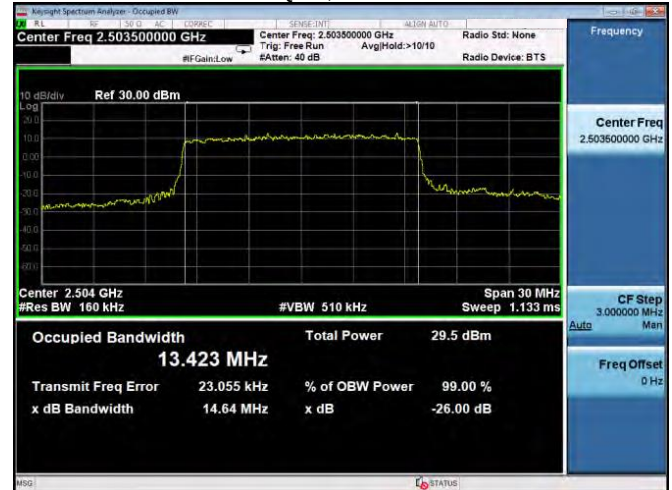


LTE FDD Band 41– 15 MHz Channel Bandwidth

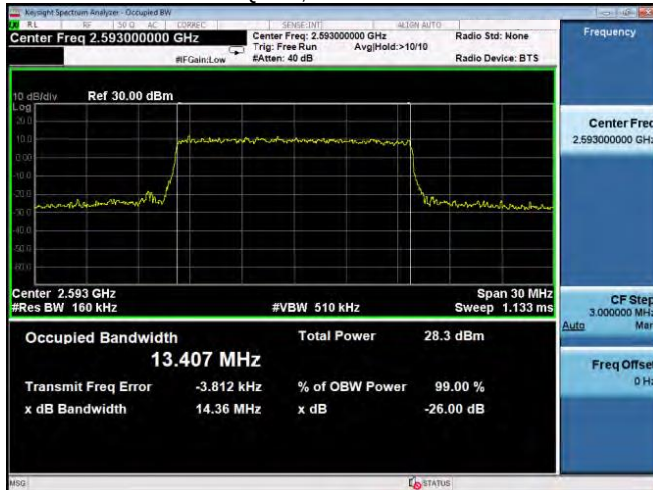
Modulation: QPSK, 1RB#0 Low Channel



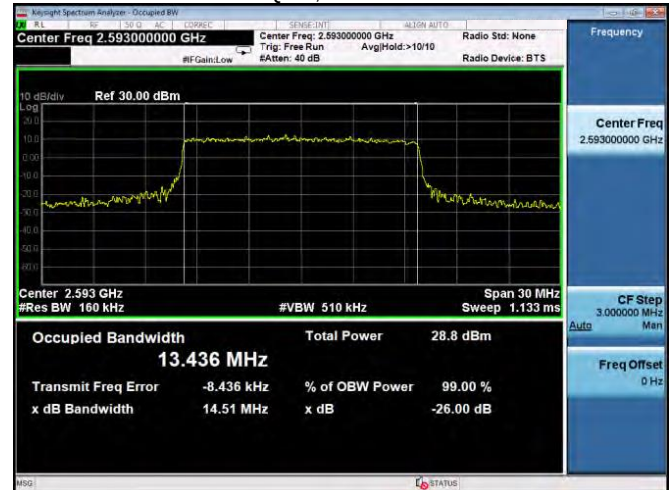
Modulation:16QAM, 1RB#0 Low Channel



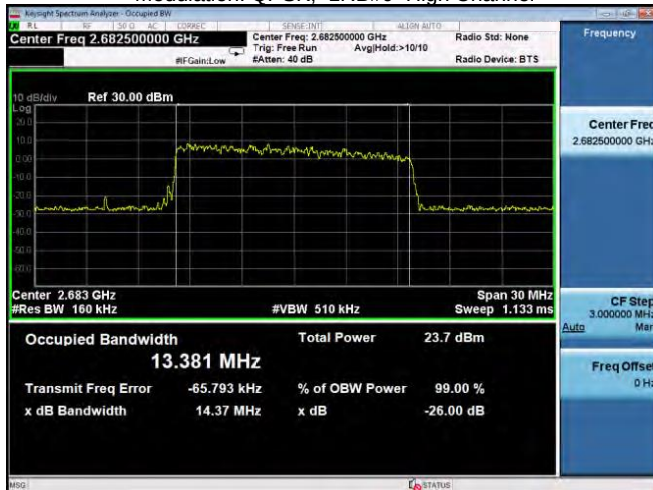
Modulation: QPSK, 1RB#0 Middle Channel



Modulation:16QAM, 1RB#0 Middle Channel



Modulation: QPSK, 1RB#0 High Channel



Modulation:16QAM, 1RB#0 High Channel

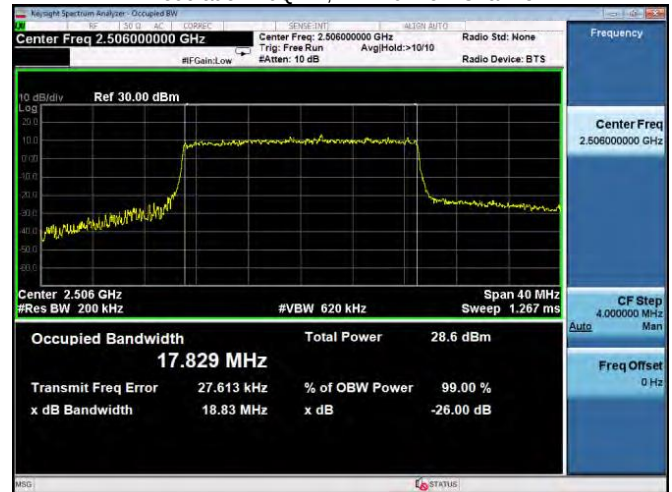


LTE FDD Band 41– 20 MHz Channel Bandwidth

Modulation: QPSK, 1RB#0 Low Channel



Modulation:16QAM, 1RB#0 Low Channel



Modulation: QPSK, 1RB#0 Middle Channel



Modulation:16QAM, 1RB#0 Middle Channel



Modulation: QPSK, 1RB#0 High Channel



Modulation:16QAM, 1RB#0 High Channel

