



RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-ZTEA2322G
Product 5G Digital Mobile Phone
Model ZTE A2322G
Report No. R2105A447-R1
Issue Date August 11, 2021

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2020)/ FCC CFR 47 Part 22H (2020)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Peng Tao

Approved by: Kai Xu

TA Technology (Shanghai) Co., Ltd.

No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000



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Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	2.1051 / 22.917(a)	PASS
4	Peak-to-Average Power Ratio	22.913(d)/ KDB 971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 22.355	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 22.917(a)	PASS
7	Radiates Spurious Emission	2.1053 / 22.917 (a)	PASS

Date of Testing: May 26, 2021 ~ July 19, 2020

Date of Sample Received: May 25, 2021

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

2.3. Applicant and Manufacturer Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

2.4. General Information

EUT Description			
Model	ZTE A2322G		
IMEI	IMEI 1: 867210050001095 IMEI 2:867210050002697		
Hardware Version	ZTE A2322GHW1.0		
Software Version 1	GEN_NA_A2322G_V1.0		
Software Version 2	TEL_MX_ZTE_A2322G_V1.0		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Antenna1	Antenna2
	GSM 850:	-5.5dBi	/
	WCDMA Band V:	-5.5dBi	-6.4dBi
	LTE Band 5:	-5.5dBi	-6.4dBi
	LTE Band 26:	-5.5dBi	-6.4dBi
Test Mode(s)	GSM 850; WCDMA Band V; LTE Band 5/26;		
Test Modulation	(GSM/GPRS)GMSK, (EGPRS) GMSK/ 8PSK; (WCDMA) BPSK, QPSK, (LTE) QPSK, 16QAM, 64QAM;		
GPRS Multislot Class	12		
EGPRS Multislot Class	12		
HSDPA UE Category	6		
HSUPA UE Category	24		
LTE Category	13		
Maximum E.R.P.	GSM 850:	25.40dBm	
	WCDMA Band V:	17.32dBm	
	LTE Band 5:	17.42dBm	
	LTE Band 26:	17.63dBm	
Rated Power Supply Voltage	3.87V		



Operating Voltage	Minimum: 3.6V Maximum: 4.2V		
Operating Temperature	Lowest: -10°C Highest: +45°C		
Extreme Temperature	Lowest: -30°C Highest: +50°C		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM850	824 ~ 849	869 ~ 894
	WCDMA Band V	824 ~ 849	869 ~ 894
	LTE Band 5	824 ~ 849	869 ~ 894
	LTE Band 26	824 ~ 849	869 ~ 894
EUT Accessory			
Adapter	Manufacturer: Shenzhen KunXing Industrial Co Ltd Model: STC-A59152050AC-Z		
Battery	Manufacturer: Ningde Amperex Technology Limited Model: Li3941T44PGh836548		
Earphone 1	Manufacturer: Shen zhen FDC Electronic Co.,Ltd. Model: DEM-9B		
Earphone 2	Manufacturer: JUWEI ELECTRONICS CO.,LTD Model: JWEP1092-Z01		
USB Cable 1	Manufacturer: King Power Electronics Co.,Ltd Model: TC20-TC20-W-100-M-6A-HSF		
USB Cable 2	Manufacturer: Luxshare-ICT Co., Ltd Model: TC20-TC20-W-100-M-6A-HSF		
Type-C to 3.5 mm Headphone Jack Adapter	Manufacture: HUIZHOU JUWEI ELECTRONICS CO. ,LTD Model: JWUB1389-Z01		
<p>Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.</p> <p>2. There is more than one USB cable/ Earphone, each one should be applied throughout the compliance test respectively, and however, only the worst case (USB cable 1/ Earphone 2) will be recorded in this report.</p> <p>3. The two different software versions are for different market requirement.</p>			



3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR 47 Part 22H (2020)

ANSI C63.26 (2015)

Reference standard:

FCC CFR47 Part 2 (2020)

KDB 971168 D01 Power Meas License Digital Systems v03r01

4. Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated. Subsequently, only the worst case emissions are reported.

The following testing in GSM/WCDMA/LTE is set based on the maximum RF Output Power.

Test modes are chosen to be reported as the worst case configuration below:

Test items	Modes/Modulation	
	GSM 850	WCDMA Band V
RF Power Output and Effective Radiated power	GSM GPRS EGPRS	RMC HSDPA/HSUPA
Occupied Bandwidth	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Band Edge Compliance	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Peak-to-Average Power Ratio	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Frequency Stability	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Spurious Emissions at Antenna Terminals	GSM	RMC
Radiates Spurious Emission	GSM	RMC



Test modes are chosen as the worst case configuration below for LTE Band 5/26

Test items	Modes	Bandwidth (MHz)					Modulation		RB			Test Channel		
		1.4	3	5	10	15	QPSK	16QAM/ 64QAM	1	50%	100%	L	M	H
RF power output and Effective Radiated power	LTE 5	O	O	O	O	-	O	O	O	O	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 5	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 5	O	O	O	O	-	O	O	O	-	O	O	-	O
	LTE 26	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 5	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 5	O	O	O	O	-	O	O	O	-	-	-	O	-
	LTE 26	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 5	O	O	O	O	-	O	-	O	-	-	O	O	O
	LTE 26	O	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 5	O	-	O	O	-	O	-	O	-	-	-	O	-
	LTE 26	O	-	O	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.													

5. Test Case Results

5.1. RF Power Output and Effective Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

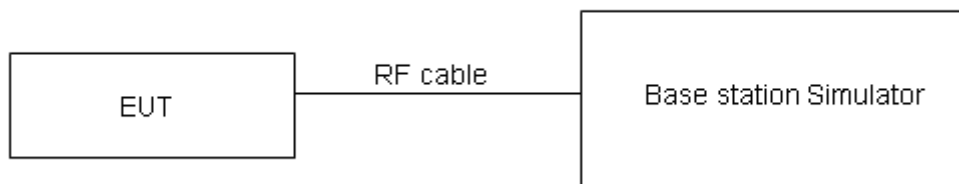
ERP can then be calculated as follows:

$$\text{EIRP (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$$

where:dBd refers to gain relative to an ideal dipole.

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

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 22.913(a)(5) specifies that "Mobile/portable stations are limited to 7 watts ERP".

Limit	≤ 7 W (38.45 dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4 \text{ dB}$ for RF power output, $k = 2$, $U = 1.19 \text{ dB}$ for ERP.



Test Results

GSM 850		Maximum Output Power (dBm)			ERP (dBm)		
		Channel 128	Channel 190	Channel 251	Channel 128	Channel 190	Channel 251
		824.2 (MHz)	836.6 (MHz)	848.8 (MHz)	824.2 (MHz)	836.6 (MHz)	848.8 (MHz)
GSM	CS	32.96	33.04	33.05	25.31	25.39	25.40
GPRS/EGPRS (GMSK)	1TXslot	32.90	33.01	32.96	25.25	25.36	25.31
	2TXslots	30.85	30.99	30.84	23.20	23.34	23.19
	3TXslots	29.76	29.95	29.82	22.11	22.30	22.17
	4TXslots	27.78	27.92	27.72	20.13	20.27	20.07
EGPRS (8PSK)	1TXslot	26.08	26.11	26.13	18.43	18.46	18.48
	2TXslots	25.01	25.09	25.14	17.36	17.44	17.49
	3TXslots	23.95	24.11	24.12	16.30	16.46	16.47
	4TXslots	21.88	21.95	22.00	14.23	14.30	14.35

WCDMA Band V		Maximum Output Power (dBm)			Antenna1 ERP (dBm)			Antenna2 ERP (dBm)		
		Channel 4132	Channel 4183	Channel 4233	Channel 4132	Channel 4183	Channel 4233	Channel 4132	Channel 4183	Channel 4233
		826.4 (MHz)	836.6 (MHz)	846.6 (MHz)	826.4 (MHz)	836.6 (MHz)	846.6 (MHz)	826.4 (MHz)	836.6 (MHz)	846.6 (MHz)
RMC		24.87	24.81	24.85	17.22	17.16	17.20	16.32	16.26	16.30
AMR		24.95	24.65	24.97	17.30	17.00	17.32	16.40	16.10	16.42
HSDPA	Sub - Test 1	24.47	24.27	24.23	16.82	16.62	16.58	15.92	15.72	15.68
	Sub - Test 2	24.27	24.17	24.35	16.62	16.52	16.70	15.72	15.62	15.80
	Sub - Test 3	23.99	23.93	23.73	16.34	16.28	16.08	15.44	15.38	15.18
	Sub - Test 4	23.79	23.83	23.87	16.14	16.18	16.22	15.24	15.28	15.32
HSUPA	Sub - Test 1	24.45	24.45	24.39	16.80	16.80	16.74	15.90	15.90	15.84
	Sub - Test 2	23.27	23.29	23.37	15.62	15.64	15.72	14.72	14.74	14.82
	Sub - Test 3	23.77	23.97	23.83	16.12	16.32	16.18	15.22	15.42	15.28
	Sub - Test 4	23.37	23.35	23.25	15.72	15.70	15.60	14.82	14.80	14.70
	Sub - Test 5	24.35	24.41	24.21	16.70	16.76	16.56	15.80	15.86	15.66



LTE Band 5				Maximum Output Power(dBm)			Antenna1 ERP (dBm)			Antenna2 ERP (dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20407 /824.7	20525 /836.5	20643 /848.3	20407 /824.7	20525 /836.5	20643 /848.3	20407 /824.7	20525 /836.5	20643 /848.3
1.4MHz	QPSK	1	0	24.97	24.93	25.05	17.32	17.28	17.4	16.42	16.38	16.50
		1	2	24.94	24.93	24.91	17.29	17.28	17.26	16.39	16.38	16.36
		1	5	24.76	24.89	24.54	17.11	17.24	16.89	16.21	16.34	15.99
		3	0	24.91	24.98	24.96	17.26	17.33	17.31	16.36	16.43	16.41
		3	2	24.96	24.99	24.98	17.31	17.34	17.33	16.41	16.44	16.43
		3	3	24.97	24.98	24.87	17.32	17.33	17.22	16.42	16.43	16.32
		6	0	24.03	24.03	24.04	16.38	16.38	16.39	15.48	15.48	15.49
	16QAM	1	0	24.30	24.31	24.42	16.65	16.66	16.77	15.75	15.76	15.87
		1	2	24.28	24.34	24.10	16.63	16.69	16.45	15.73	15.79	15.55
		1	5	24.26	24.32	23.72	16.61	16.67	16.07	15.71	15.77	15.17
		3	0	23.93	23.93	23.96	16.28	16.28	16.31	15.38	15.38	15.41
		3	2	24.01	23.97	24.00	16.36	16.32	16.35	15.46	15.42	15.45
		3	3	23.96	24.01	23.96	16.31	16.36	16.31	15.41	15.46	15.41
		6	0	23.05	23.04	23.08	15.4	15.39	15.43	14.50	14.49	14.53
	64QAM	1	0	22.93	23.08	23.18	15.28	15.43	15.53	14.38	14.53	14.63
		1	2	22.86	23.07	22.96	15.21	15.42	15.31	14.31	14.52	14.41
		1	5	22.05	23.13	22.55	14.4	15.48	14.9	13.50	14.58	14.00
		3	0	22.60	22.64	22.68	14.95	14.99	15.03	14.05	14.09	14.13
		3	2	22.72	22.69	22.70	15.07	15.04	15.05	14.17	14.14	14.15
		3	3	22.64	22.72	22.68	14.99	15.07	15.03	14.09	14.17	14.13
		6	0	21.74	21.71	21.76	14.09	14.06	14.11	13.19	13.16	13.21
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20415 /825.5	20525 /836.5	20635 /847.5	20415 /825.5	20525 /836.5	20635 /847.5	20415 /825.5	20525 /836.5	20635 /847.5
3MHz	QPSK	1	0	24.98	24.96	25.07	17.33	17.31	17.42	16.43	16.41	16.52
		1	7	24.93	24.97	24.96	17.28	17.32	17.31	16.38	16.42	16.41
		1	14	24.78	24.93	24.57	17.13	17.28	16.92	16.23	16.38	16.02
		8	0	24.01	24.10	24.09	16.36	16.45	16.44	15.46	15.55	15.54
		8	4	24.09	24.10	24.09	16.44	16.45	16.44	15.54	15.55	15.54
		8	7	24.07	24.11	23.98	16.42	16.46	16.33	15.52	15.56	15.43
		15	0	24.07	24.08	24.09	16.42	16.43	16.44	15.52	15.53	15.54



	16QAM	1	0	24.32	24.32	24.44	16.67	16.67	16.79	15.77	15.77	15.89
		1	7	24.31	24.36	24.14	16.66	16.71	16.49	15.76	15.81	15.59
		1	14	24.28	24.36	23.74	16.63	16.71	16.09	15.73	15.81	15.19
		8	0	23.05	23.07	23.09	15.4	15.42	15.44	14.50	14.52	14.54
		8	4	23.11	23.09	23.11	15.46	15.44	15.46	14.56	14.54	14.56
		8	7	23.06	23.13	23.09	15.41	15.48	15.44	14.51	14.58	14.54
		15	0	23.09	23.09	23.10	15.44	15.44	15.45	14.54	14.54	14.55
	64QAM	1	0	22.95	23.09	23.20	15.3	15.44	15.55	14.40	14.54	14.65
		1	7	22.89	23.09	22.98	15.24	15.44	15.33	14.34	14.54	14.43
		1	14	22.07	23.12	22.57	14.42	15.47	14.92	13.52	14.57	14.02
		8	0	21.72	21.78	21.81	14.07	14.13	14.16	13.17	13.23	13.26
		8	4	21.82	21.81	21.81	14.17	14.16	14.16	13.27	13.26	13.26
		8	7	21.74	21.84	21.81	14.09	14.19	14.16	13.19	13.29	13.26
		15	0	21.78	21.76	21.78	14.13	14.11	14.13	13.23	13.21	13.23
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20425 /826.5	20525 /836.5	20625 /846.5	20425 /826.5	20525 /836.5	20625 /846.5	20425 /826.5	20525 /836.5	20625 /846.5
5MHz	QPSK	1	0	24.97	24.92	25.05	17.32	17.27	17.40	16.42	16.37	16.50
		1	13	24.91	24.96	24.93	17.26	17.31	17.28	16.36	16.41	16.38
		1	24	24.75	24.88	24.53	17.10	17.23	16.88	16.20	16.33	15.98
		12	0	23.99	24.06	24.06	16.34	16.41	16.41	15.44	15.51	15.51
		12	6	24.06	24.05	24.05	16.41	16.40	16.40	15.51	15.50	15.50
		12	13	24.04	24.08	23.94	16.39	16.43	16.29	15.49	15.53	15.39
		25	0	24.05	24.04	24.04	16.40	16.39	16.39	15.50	15.49	15.49
	16QAM	1	0	24.27	24.30	24.42	16.62	16.65	16.77	15.72	15.75	15.87
		1	13	24.29	24.33	24.12	16.64	16.68	16.47	15.74	15.78	15.57
		1	24	24.25	24.32	23.71	16.60	16.67	16.06	15.70	15.77	15.16
		12	0	23.02	23.05	23.06	15.37	15.40	15.41	14.47	14.50	14.51
		12	6	23.08	23.04	23.07	15.43	15.39	15.42	14.53	14.49	14.52
		12	13	23.04	23.09	23.06	15.39	15.44	15.41	14.49	14.54	14.51
		25	0	23.06	23.04	23.06	15.41	15.39	15.41	14.51	14.49	14.51
	64QAM	1	0	22.90	23.07	23.18	15.25	15.42	15.53	14.35	14.52	14.63
		1	13	22.87	23.06	22.96	15.22	15.41	15.31	14.32	14.51	14.41
		1	24	22.08	23.11	22.58	14.43	15.46	14.93	13.53	14.56	14.03
		12	0	21.71	21.80	21.82	14.06	14.15	14.17	13.16	13.25	13.27
		12	6	21.80	21.78	21.80	14.15	14.13	14.15	13.25	13.23	13.25
		12	13	21.72	21.80	21.78	14.07	14.15	14.13	13.17	13.25	13.23



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20450	20525	20600	20450	20525	20600	20450	20525	20600
				/829	/836.5	/844	/829	/836.5	/844	/829	/836.5	/844
		25	0	21.75	21.71	21.74	14.10	14.06	14.09	13.20	13.16	13.19
10MHz	QPSK	1	0	24.94	24.88	25.02	17.29	17.23	17.37	16.39	16.33	16.47
		1	25	24.90	24.92	24.91	17.25	17.27	17.26	16.35	16.37	16.36
		1	49	24.73	24.87	24.50	17.08	17.22	16.85	16.18	16.32	15.95
		25	0	23.96	24.01	24.02	16.31	16.36	16.37	15.41	15.46	15.47
		25	13	24.04	24.01	24.02	16.39	16.36	16.37	15.49	15.46	15.47
		25	25	24.01	24.03	23.90	16.36	16.38	16.25	15.46	15.48	15.35
		50	0	24.02	23.99	24.00	16.37	16.34	16.35	15.47	15.44	15.45
	16QAM	1	0	24.31	24.26	24.37	16.66	16.61	16.72	15.76	15.71	15.82
		1	25	24.25	24.31	24.08	16.60	16.66	16.43	15.70	15.76	15.53
		1	49	24.23	24.29	23.69	16.58	16.64	16.04	15.68	15.74	15.14
		25	0	22.99	23.01	23.03	15.34	15.36	15.38	14.44	14.46	14.48
		25	13	23.05	23.02	23.04	15.40	15.37	15.39	14.50	14.47	14.49
		25	25	23.01	23.04	23.02	15.36	15.39	15.37	14.46	14.49	14.47
		50	0	23.04	23.00	23.03	15.39	15.35	15.38	14.49	14.45	14.48
	64QAM	1	0	22.88	23.03	23.13	15.23	15.38	15.48	14.33	14.48	14.58
		1	25	22.83	23.04	22.92	15.18	15.39	15.27	14.28	14.49	14.37
		1	49	22.02	23.05	22.52	14.37	15.40	14.87	13.47	14.50	13.97
		25	0	21.66	21.72	21.75	14.01	14.07	14.10	13.11	13.17	13.20
		25	13	21.76	21.74	21.74	14.11	14.09	14.09	13.21	13.19	13.19
		25	25	21.69	21.75	21.74	14.04	14.10	14.09	13.14	13.20	13.19
		50	0	21.73	21.67	21.71	14.08	14.02	14.06	13.18	13.12	13.16

LTE Band 26				Maximum Output Power(dBm)			Antenna1 ERP (dBm)			Antenna2 ERP (dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				26797	26915	27033	26797	26915	27033	26797	26915	27033
				/824.7	/836.5	/848.3	/824.7	/836.5	/848.3	/824.7	/836.5	/848.3
1.4MHz	QPSK	1	0	25.11	25.16	24.51	17.46	17.51	16.86	16.56	16.61	15.96
		1	2	25.09	25.14	24.98	17.44	17.49	17.33	16.54	16.59	16.43
		1	5	25.10	25.10	23.84	17.45	17.45	16.19	16.55	16.55	15.29
		3	0	25.03	25.25	25.19	17.38	17.60	17.54	16.48	16.70	16.64
		3	2	25.16	25.22	25.28	17.51	17.57	17.63	16.61	16.67	16.73
		3	3	25.20	25.25	24.63	17.55	17.60	16.98	16.65	16.70	16.08
		6	0	24.05	24.28	24.17	16.40	16.63	16.52	15.50	15.73	15.62



	16QAM	1	0	24.33	24.40	24.38	16.68	16.75	16.73	15.78	15.85	15.83
		1	2	24.31	24.20	24.41	16.66	16.55	16.76	15.76	15.65	15.86
		1	5	24.42	24.40	24.19	16.77	16.75	16.54	15.87	15.85	15.64
		3	0	24.17	24.18	24.21	16.52	16.53	16.56	15.62	15.63	15.66
		3	2	24.21	24.19	24.28	16.56	16.54	16.63	15.66	15.64	15.73
		3	3	24.18	24.24	24.22	16.53	16.59	16.57	15.63	15.69	15.67
		6	0	23.27	23.30	23.33	15.62	15.65	15.68	14.72	14.75	14.78
	64QAM	1	0	23.10	23.03	23.20	15.45	15.38	15.55	14.55	14.48	14.65
		1	2	23.01	23.20	23.10	15.36	15.55	15.45	14.46	14.65	14.55
		1	5	23.03	23.18	22.78	15.38	15.53	15.13	14.48	14.63	14.23
		3	0	22.86	22.91	22.92	15.21	15.26	15.27	14.31	14.36	14.37
		3	2	22.91	22.90	22.99	15.26	15.25	15.34	14.36	14.35	14.44
		3	3	22.86	22.97	22.92	15.21	15.32	15.27	14.31	14.42	14.37
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				26805 /825.5	26915 /836.5	27025 /847.5	26805 /825.5	26915 /836.5	27025 /847.5	26797 /824.7	26915 /836.5	27033 /848.3
3MHz	QPSK	1	0	25.11	25.15	24.51	17.46	17.50	16.86	16.56	16.60	15.96
		1	7	25.06	25.17	25.00	17.41	17.52	17.35	16.51	16.62	16.45
		1	14	25.09	25.09	23.83	17.44	17.44	16.18	16.54	16.54	15.28
		8	0	24.11	24.33	24.29	16.46	16.68	16.64	15.56	15.78	15.74
		8	4	24.26	24.28	24.35	16.61	16.63	16.70	15.71	15.73	15.80
		8	7	24.27	24.35	23.70	16.62	16.70	16.05	15.72	15.80	15.15
		15	0	24.21	24.29	24.17	16.56	16.64	16.52	15.66	15.74	15.62
	16QAM	1	0	24.30	24.46	24.38	16.65	16.81	16.73	15.75	15.91	15.83
		1	7	24.32	24.19	24.42	16.67	16.54	16.77	15.77	15.64	15.87
		1	14	24.41	24.40	24.18	16.76	16.75	16.53	15.86	15.85	15.63
		8	0	23.26	23.30	23.31	15.61	15.65	15.66	14.71	14.75	14.76
		8	4	23.28	23.26	23.35	15.63	15.61	15.70	14.73	14.71	14.80
		8	7	23.26	23.32	23.32	15.61	15.67	15.67	14.71	14.77	14.77
		15	0	23.28	23.30	23.31	15.63	15.65	15.66	14.73	14.75	14.76
	64QAM	1	0	23.07	23.02	23.20	15.42	15.37	15.55	14.52	14.47	14.65
		1	7	23.02	23.19	23.10	15.37	15.54	15.45	14.47	14.64	14.55
		1	14	23.06	23.16	22.81	15.41	15.51	15.16	14.51	14.61	14.26
		8	0	21.97	22.07	22.06	14.32	14.42	14.41	13.42	13.52	13.51
		8	4	21.99	21.99	22.09	14.34	14.34	14.44	13.44	13.44	13.54
		8	7	21.94	22.05	22.02	14.29	14.40	14.37	13.39	13.50	13.47



		15	0	22.00	22.00	21.97	14.35	14.35	14.32	13.45	13.45	13.42
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				26815 /826.5	26915 /836.5	27015 /846.5	26815 /826.5	26915 /836.5	27015 /846.5	26797 /824.7	26915 /836.5	27033 /848.3
5MHz	QPSK	1	0	25.12	25.19	24.53	17.47	17.54	16.88	16.57	16.64	15.98
		1	13	25.08	25.18	25.03	17.43	17.53	17.38	16.53	16.63	16.48
		1	24	25.12	25.14	23.87	17.47	17.49	16.22	16.57	16.59	15.32
		12	0	24.13	24.37	24.32	16.48	16.72	16.67	15.58	15.82	15.77
		12	6	24.29	24.33	24.39	16.64	16.68	16.74	15.74	15.78	15.84
		12	13	24.30	24.38	23.74	16.65	16.73	16.09	15.75	15.83	15.19
		25	0	23.92	24.33	24.22	16.27	16.68	16.57	15.37	15.78	15.67
	16QAM	1	0	24.35	24.48	24.23	16.70	16.83	16.58	15.80	15.93	15.68
		1	13	24.34	24.22	24.39	16.69	16.57	16.74	15.79	15.67	15.84
		1	24	24.44	24.44	24.21	16.79	16.79	16.56	15.89	15.89	15.66
		12	0	23.29	23.32	23.34	15.64	15.67	15.69	14.74	14.77	14.79
		12	6	23.31	23.31	23.39	15.66	15.66	15.74	14.76	14.76	14.84
		12	13	23.28	23.36	23.35	15.63	15.71	15.70	14.73	14.81	14.80
		25	0	23.31	23.35	23.35	15.66	15.70	15.70	14.76	14.80	14.80
	64QAM	1	0	23.12	23.04	23.22	15.47	15.39	15.57	14.57	14.49	14.67
		1	13	23.04	23.22	23.12	15.39	15.57	15.47	14.49	14.67	14.57
		1	24	23.05	23.17	22.80	15.40	15.52	15.15	14.50	14.62	14.25
		12	0	21.98	22.05	22.05	14.33	14.40	14.40	13.43	13.50	13.50
		12	6	22.01	22.02	22.10	14.36	14.37	14.45	13.46	13.47	13.55
		12	13	21.96	22.09	22.05	14.31	14.44	14.40	13.41	13.54	13.50
		25	0	22.03	22.05	22.01	14.38	14.40	14.36	13.48	13.50	13.46
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				26840 /829	26915 /836.5	26990 /844	26840 /829	26915 /836.5	26990 /844	26797 /824.7	26915 /836.5	27033 /848.3
10MHz	QPSK	1	0	25.10	25.18	24.50	17.45	17.53	16.85	16.55	16.63	15.95
		1	25	25.05	25.13	24.99	17.40	17.48	17.34	16.50	16.58	16.44
		1	49	25.10	25.10	23.84	17.45	17.45	16.19	16.55	16.55	15.29
		25	0	24.10	24.32	24.28	16.45	16.67	16.63	15.55	15.77	15.73
		25	13	24.26	24.28	24.35	16.61	16.63	16.70	15.71	15.73	15.80
		25	25	24.28	24.34	23.69	16.63	16.69	16.04	15.73	15.79	15.14
		50	0	23.96	24.31	24.18	16.31	16.66	16.53	15.41	15.76	15.63
	16QAM	1	0	24.33	24.45	24.49	16.68	16.80	16.84	15.78	15.90	15.94
		1	25	24.31	24.18	24.49	16.66	16.53	16.84	15.76	15.63	15.94



		1	49	24.41	24.42	24.18	16.76	16.77	16.53	15.86	15.87	15.63
		25	0	23.26	23.27	23.30	15.61	15.62	15.65	14.71	14.72	14.75
		25	13	23.29	23.27	23.36	15.64	15.62	15.71	14.74	14.72	14.81
		25	25	23.25	23.31	23.31	15.60	15.66	15.66	14.70	14.76	14.76
		50	0	23.28	23.30	23.31	15.63	15.65	15.66	14.73	14.75	14.76
	64QAM	1	0	23.10	23.05	23.20	15.45	15.40	15.55	14.55	14.50	14.65
		1	25	23.01	23.22	23.09	15.36	15.57	15.44	14.46	14.67	14.54
		1	49	23.06	23.15	22.77	15.41	15.50	15.12	14.51	14.60	14.22
		25	0	21.95	22.00	22.05	14.30	14.35	14.40	13.40	13.45	13.50
		25	13	21.99	21.98	22.07	14.34	14.33	14.42	13.44	13.43	13.52
		25	25	21.93	22.04	22.01	14.28	14.39	14.36	13.38	13.49	13.46
		50	0	22.00	22.00	21.97	14.35	14.35	14.32	13.45	13.45	13.42
	BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)							
26865 /831.5					26915 /836.5	26965 /841.5	26865 /831.5	26915 /836.5	26965 /841.5	26797 /824.7	26915 /836.5	27033 /848.3
15MHz	QPSK	1	0	25.08	25.11	24.48	17.43	17.46	16.83	16.53	16.56	15.93
		1	38	25.05	25.13	24.98	17.40	17.48	17.33	16.50	16.58	16.43
		1	74	25.07	25.08	23.80	17.42	17.43	16.15	16.52	16.53	15.25
		36	0	24.08	24.28	24.25	16.43	16.63	16.60	15.53	15.73	15.70
		36	18	24.24	24.24	24.32	16.59	16.59	16.67	15.69	15.69	15.77
		36	39	24.24	24.30	23.66	16.59	16.65	16.01	15.69	15.75	15.11
		75	0	23.94	24.24	24.13	16.29	16.59	16.48	15.39	15.69	15.58
	16QAM	1	0	24.38	24.42	24.44	16.73	16.77	16.79	15.83	15.87	15.89
		1	38	24.28	24.17	24.46	16.63	16.52	16.81	15.73	15.62	15.91
		1	74	24.39	24.37	24.16	16.74	16.72	16.51	15.84	15.82	15.61
		36	0	23.23	23.26	23.28	15.58	15.61	15.63	14.68	14.71	14.73
		36	18	23.25	23.24	23.32	15.60	15.59	15.67	14.70	14.69	14.77
		36	39	23.23	23.27	23.28	15.58	15.62	15.63	14.68	14.72	14.73
		75	0	23.26	23.26	23.28	15.61	15.61	15.63	14.71	14.71	14.73
	64QAM	1	0	23.05	22.98	23.15	15.40	15.33	15.50	14.50	14.43	14.60
		1	38	22.98	23.17	23.06	15.33	15.52	15.41	14.43	14.62	14.51
		1	74	23.00	23.10	22.75	15.35	15.45	15.10	14.45	14.55	14.20
		36	0	21.92	21.99	21.99	14.27	14.34	14.34	13.37	13.44	13.44
		36	18	21.95	21.95	22.03	14.30	14.30	14.38	13.40	13.40	13.48
		36	39	21.91	22.00	21.98	14.26	14.35	14.33	13.36	13.45	13.43
		75	0	21.98	21.96	21.94	14.33	14.31	14.29	13.43	13.41	13.39

5.2. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to 6.2kHz, VBW is set to 20kHz for GSM 850,

RBW is set to 51kHz, VBW is set to 160kHz for WCDMA Band V,

RBW is set to 30 kHz, VBW is set to 91kHz for LTE Band 5/26 (1.4MHz),

RBW is set to 62 kHz, VBW is set to 180kHz for LTE Band 5/26 (3MHz),

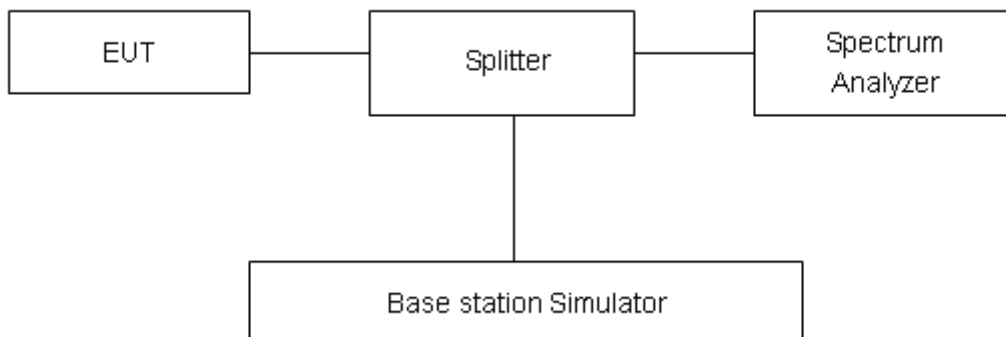
RBW is set to 100 kHz, VBW is set to 300kHz for LTE Band 5/26 (5MHz),

RBW is set to 200 kHz, VBW is set to 620kHz for LTE Band 5/26 (10MHz),

RBW is set to 300kHz,VBW is set to 910kHz for LTE Band 26 (15MHz).

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 624\text{Hz}$.

Test Result

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
GSM 850 (GMSK)	128	824.2	0.24616	0.3018
	190	836.6	0.24611	0.3127
	251	848.8	0.23924	0.3095
GPRS 850 (GMSK)	128	824.2	0.24360	0.3174
	190	836.6	0.24468	0.3166
	251	848.8	0.24658	0.3066
EGPRS 850 (8PSK)	128	824.2	0.24745	0.3175
	190	836.6	0.23850	0.2935
	251	848.8	0.24606	0.2987

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band 5	4357	871.4	4.1471	4.686
	4408	881.6	4.1505	4.706
	4458	891.6	4.1575	4.712



LTE Band 5						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	20407	824.7	1.0946	1.2380
			20525	836.5	1.0885	1.2320
			20643	848.3	1.0909	1.2310
		3	20415	825.5	2.6979	3.0200
			20525	836.5	2.6995	2.9730
			20635	847.5	2.7022	2.9970
		5	20425	826.5	4.5045	4.9690
			20525	836.5	4.5257	4.9790
			20625	846.5	4.5084	4.9460
		10	20450	829	8.9659	9.8640
			20525	836.5	8.9543	9.7330
			20600	844	8.9841	9.8000
	16QAM	1.4	20407	824.7	1.0949	1.2420
			20525	836.5	1.0985	1.2310
			20643	848.3	1.0887	1.2240
		3	20415	825.5	2.6972	3.0100
			20525	836.5	2.6981	3.0130
			20635	847.5	2.6971	3.0270
		5	20425	826.5	4.4975	4.8970
			20525	836.5	4.5394	4.9600
			20625	846.5	4.5191	4.9860
		10	20450	829	8.9921	9.7640
			20525	836.5	8.9911	9.7540
			20600	844	8.9411	9.7000
	64QAM	1.4	20407	824.7	1.0935	1.2360
			20525	836.5	1.0951	1.2390
			20643	848.3	1.0880	1.2230
		3	20415	825.5	2.6985	2.9720
			20525	836.5	2.7004	3.0020
			20635	847.5	2.6974	2.9980
5		20425	826.5	4.4948	4.9280	

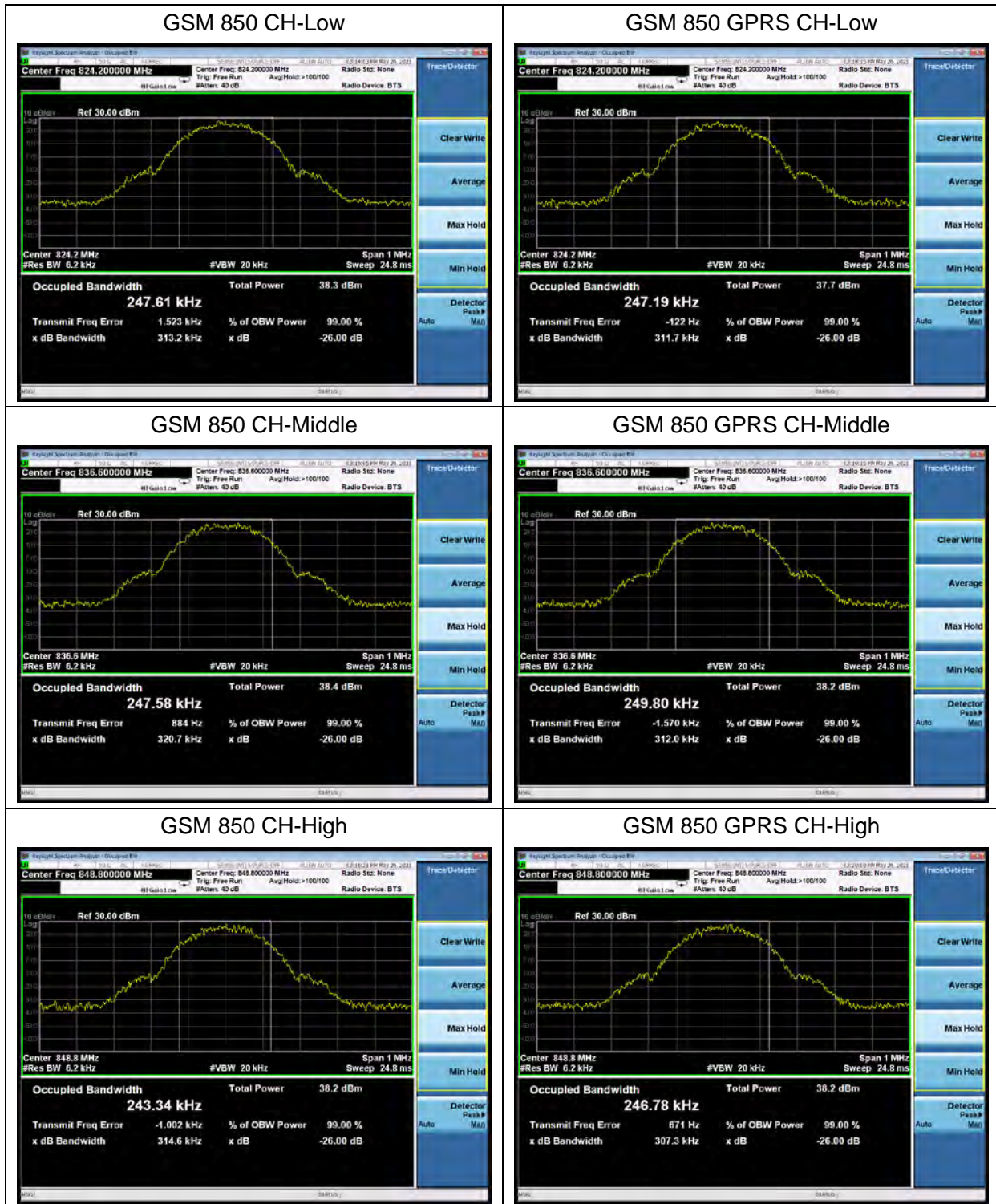


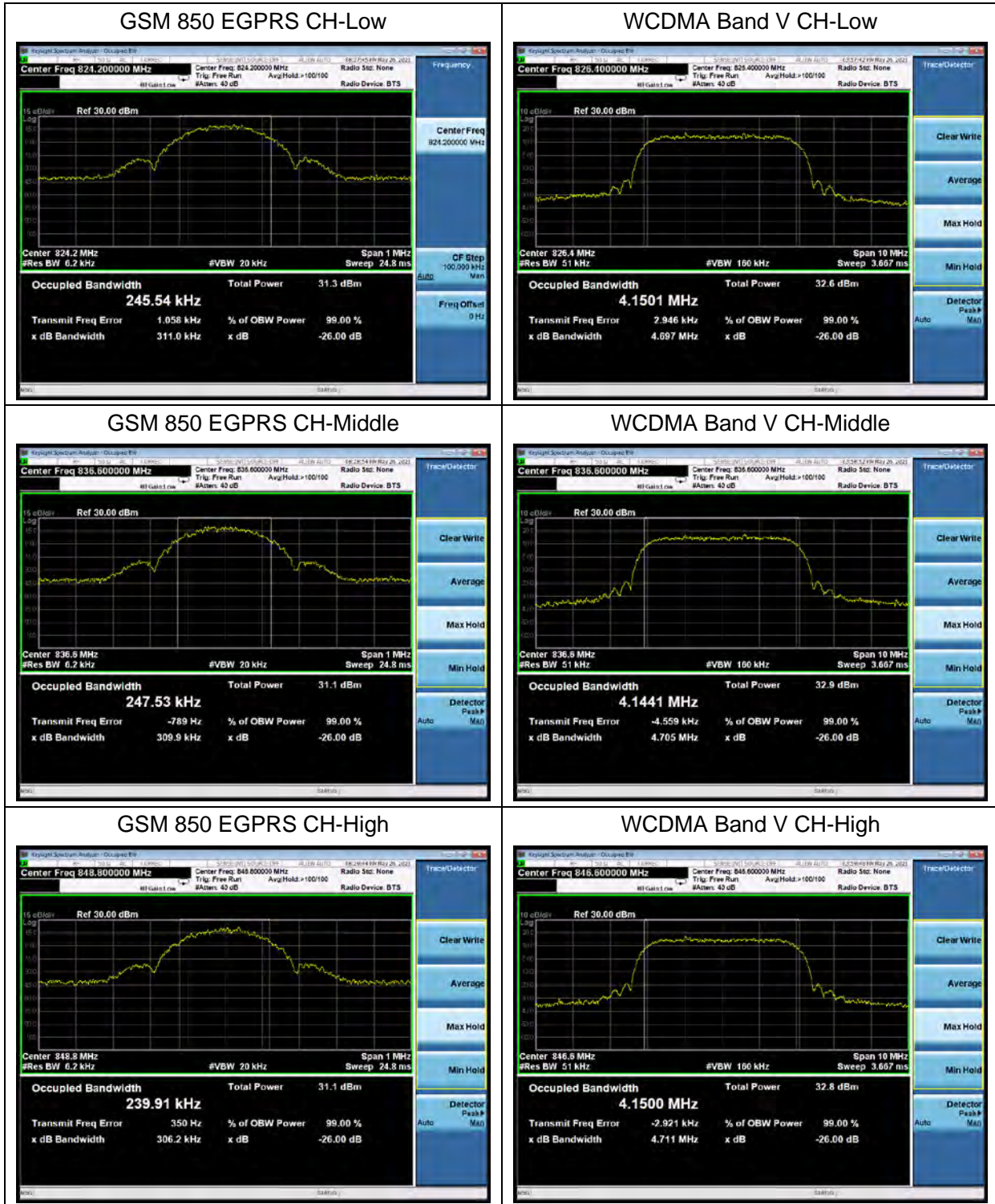
			20525	836.5	4.5163	4.9400
			20625	846.5	4.5234	4.9560
		10	20450	829	8.9649	9.7920
			20525	836.5	8.9653	9.6980
			20600	844	8.9428	9.7940

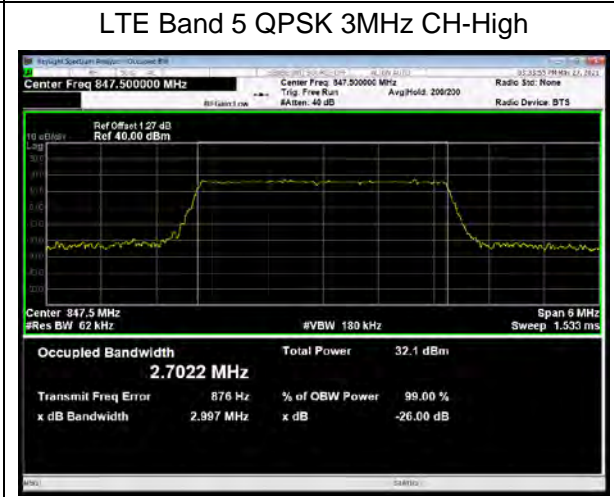
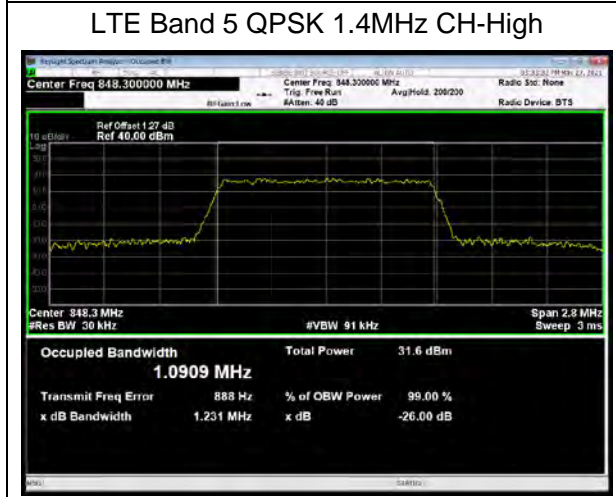
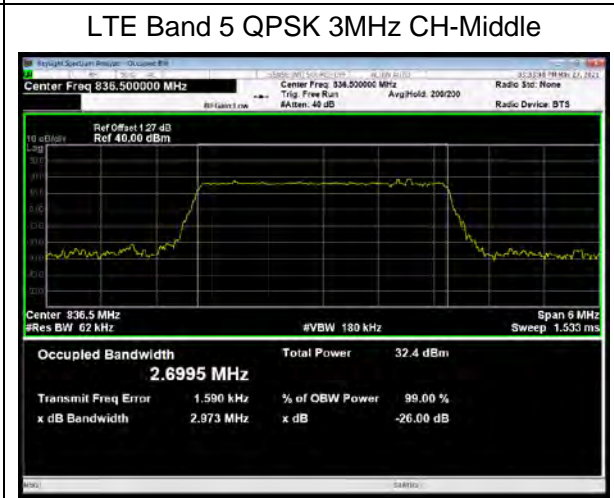
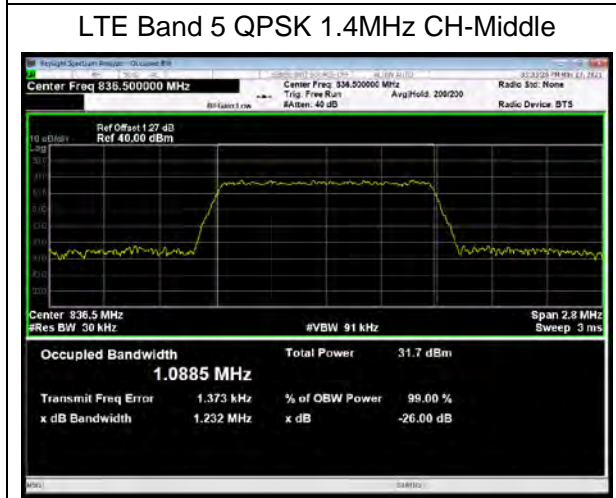
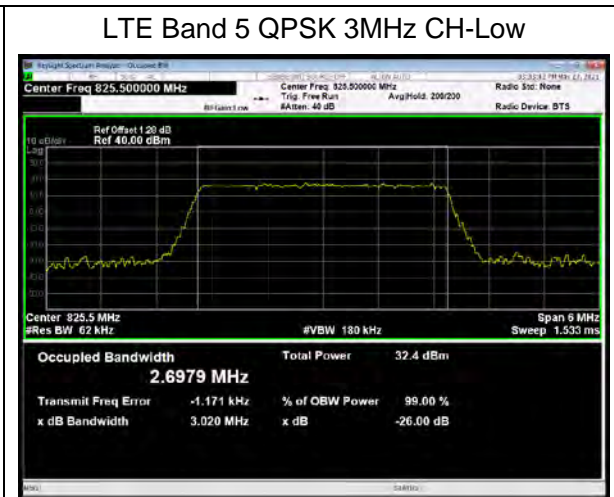
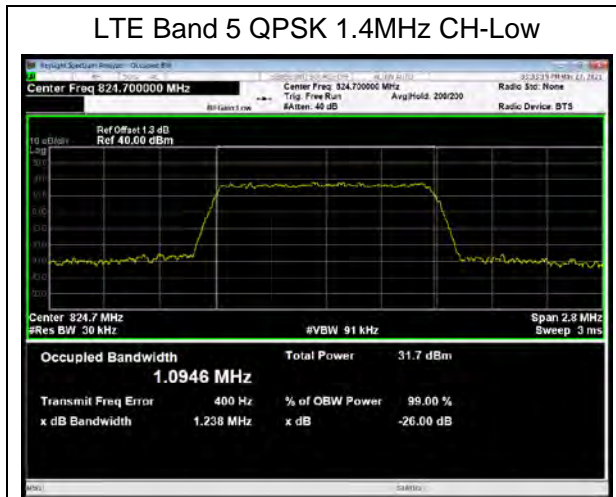
LTE Band 26						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	26797	824.7	1.0893	1.2370
			26915	836.5	1.0936	1.2240
			27033	848.3	1.0929	1.2330
		3	26805	825.5	2.6922	2.9910
			26915	836.5	2.7006	3.0030
			27025	847.5	2.7066	2.9780
		5	26815	826.5	4.5225	4.9690
			26915	836.5	4.5101	4.9650
			27015	846.5	4.5041	4.9100
		10	26840	829	8.9916	9.8480
			26915	836.5	8.9805	9.8180
			26990	844	9.0058	9.7210
		15	26865	831.5	13.4450	14.6200
			26915	836.5	13.4530	14.5600
			26965	841.5	13.4560	14.6100
	16QAM	1.4	26797	824.7	1.0956	1.2370
			26915	836.5	1.0892	1.2260
			27033	848.3	1.0929	1.2330
		3	26805	825.5	2.7039	3.0470
			26915	836.5	2.6998	3.0060
			27025	847.5	2.7046	3.0160
		5	26815	826.5	4.5074	4.9380
			26915	836.5	4.5089	4.9380
			27015	846.5	4.5213	4.9420
		10	26840	829	8.9770	9.6800
			26915	836.5	8.9769	9.6970
			26990	844	8.9537	9.7120
		15	26865	831.5	13.4650	14.4700
			26915	836.5	13.4910	14.5200
			26965	841.5	13.4980	14.5600
		1.4	26797	824.7	1.0980	1.2370

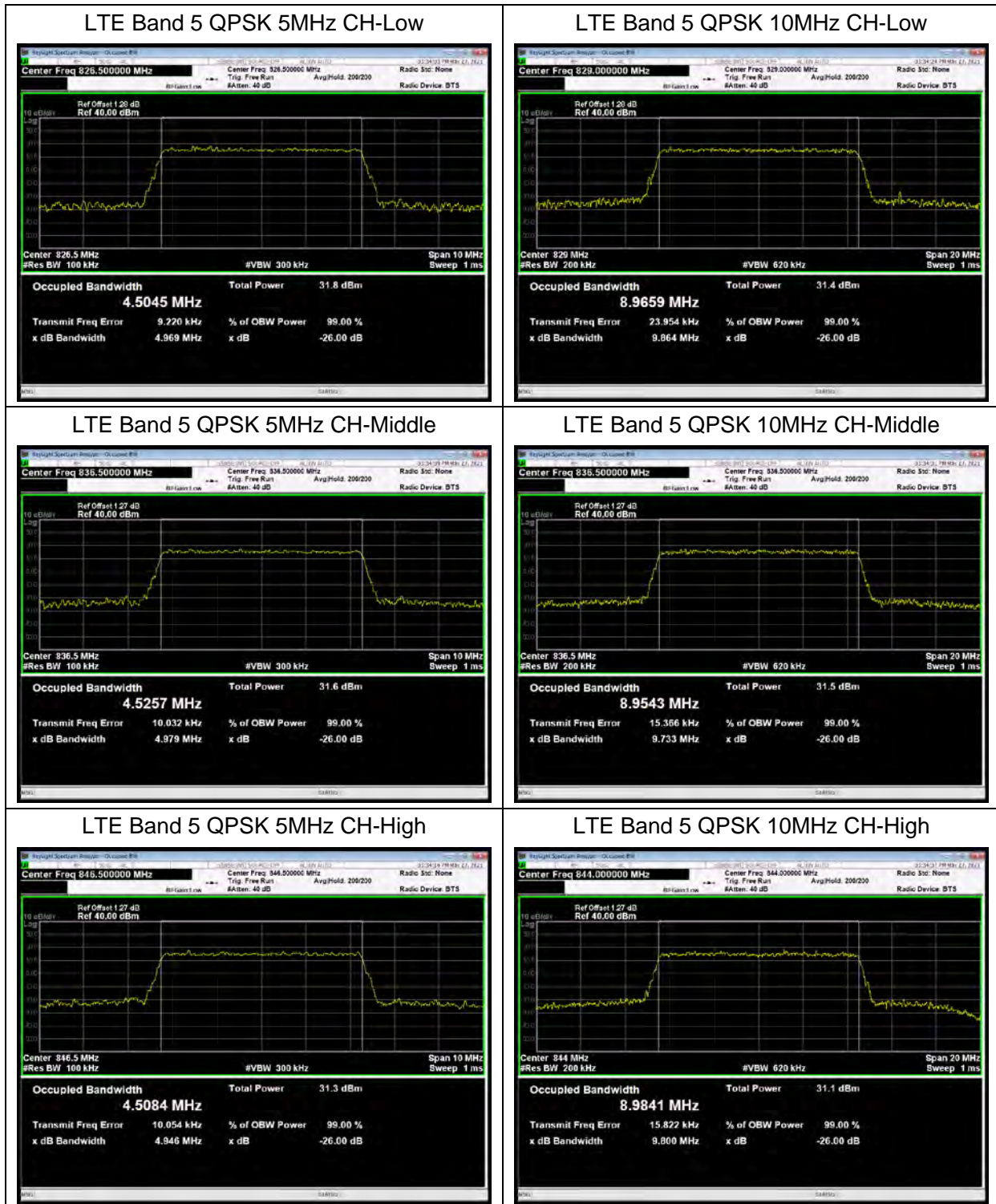


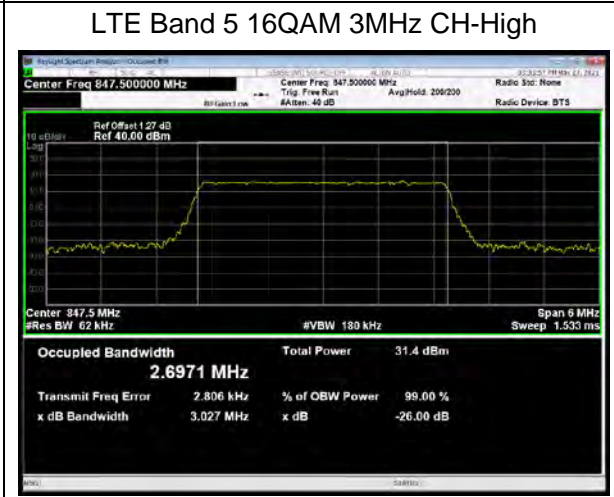
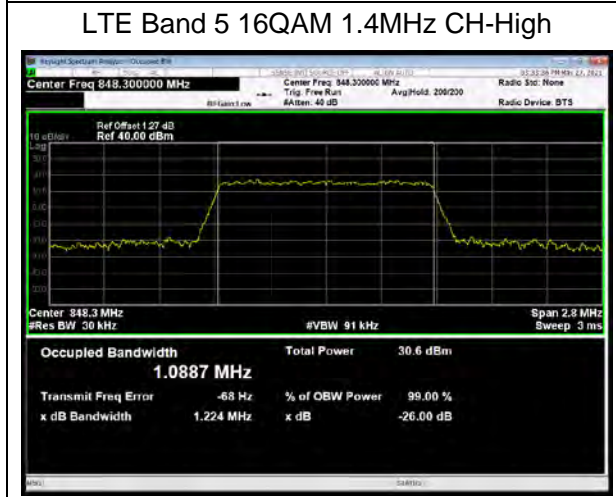
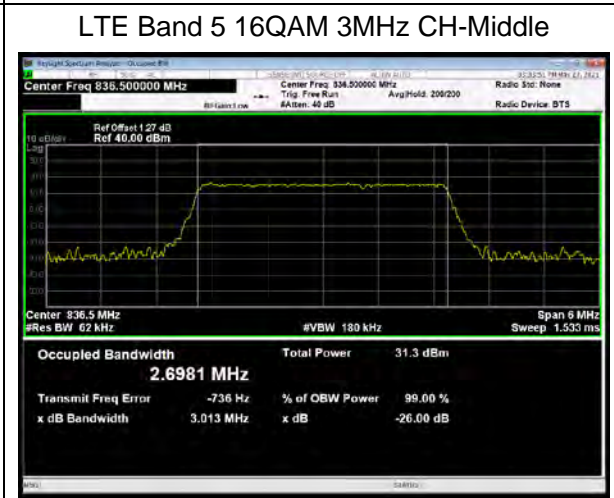
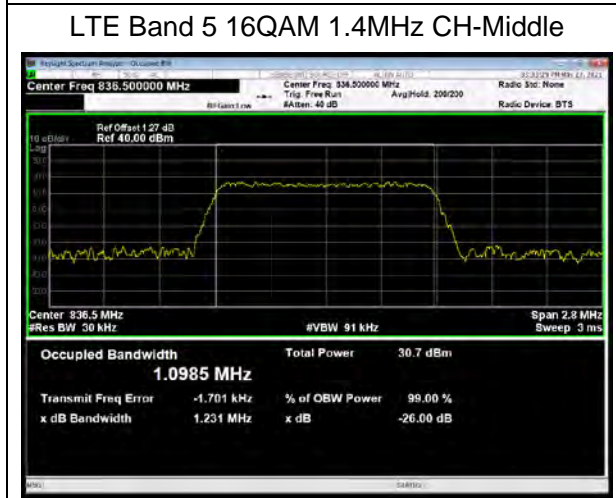
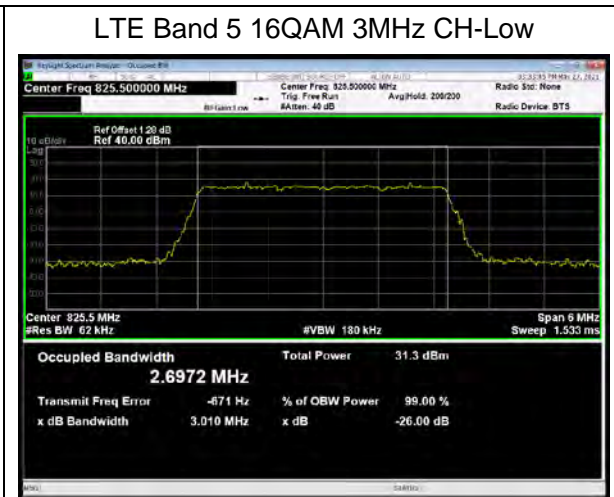
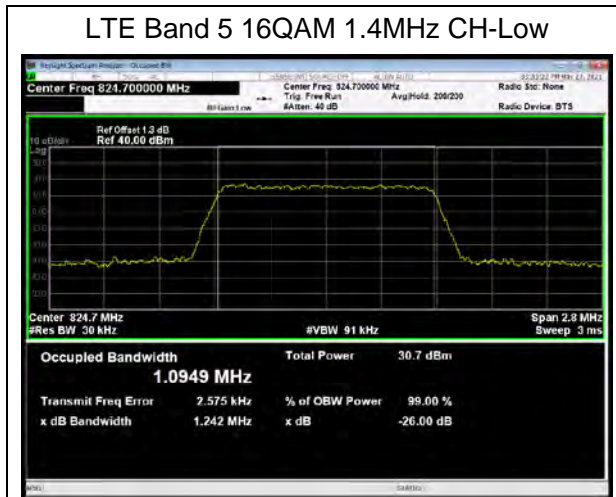
64QAM		26915	836.5	1.0895	1.2330
		27033	848.3	1.0963	1.2370
	3	26805	825.5	2.7029	3.0360
		26915	836.5	2.6953	2.9940
		27025	847.5	2.6997	2.9800
	5	26815	826.5	4.5051	4.9240
		26915	836.5	4.5189	4.8900
		27015	846.5	4.5169	4.9530
	10	26840	829	8.9655	9.7220
		26915	836.5	8.9878	9.7480
		26990	844	8.9554	9.7510
	15	26865	831.5	13.4390	14.8000
		26915	836.5	13.4310	14.6600
		26965	841.5	13.5100	14.5400

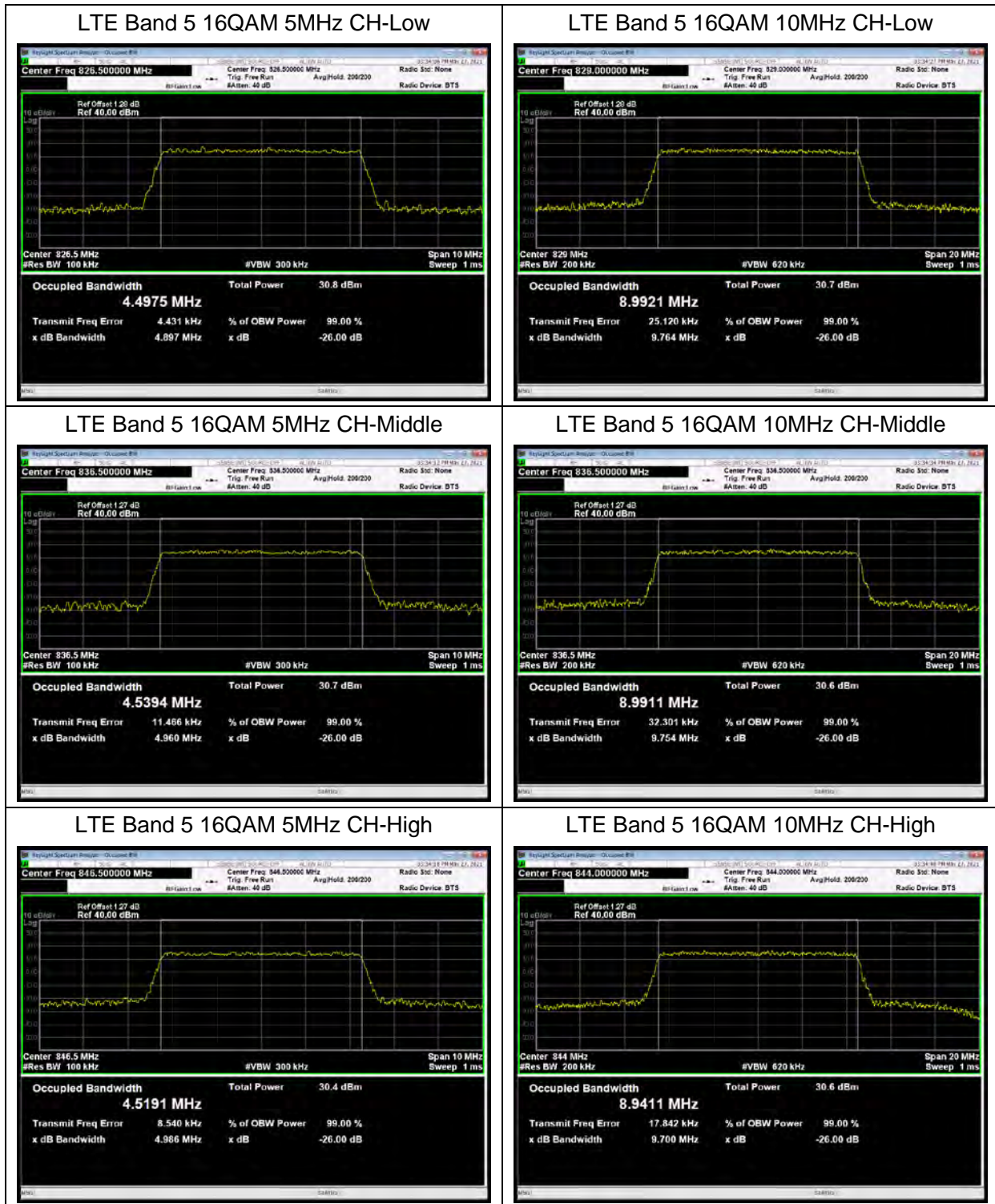


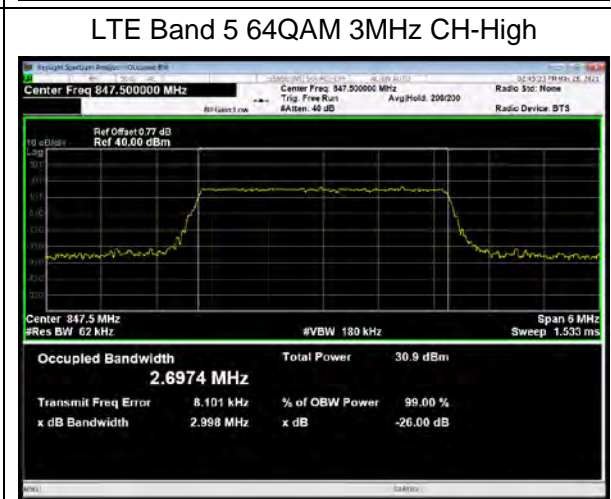
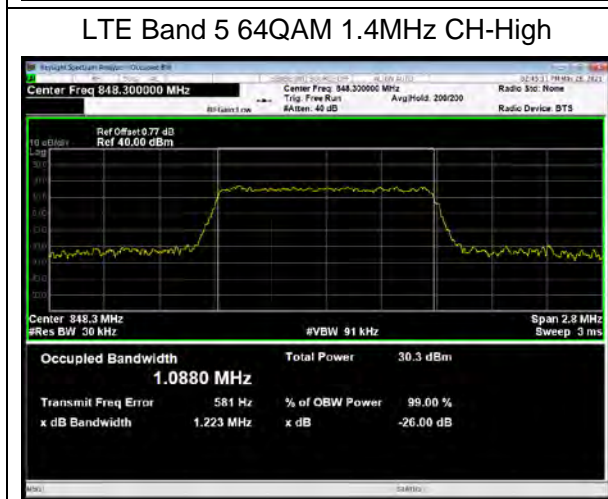
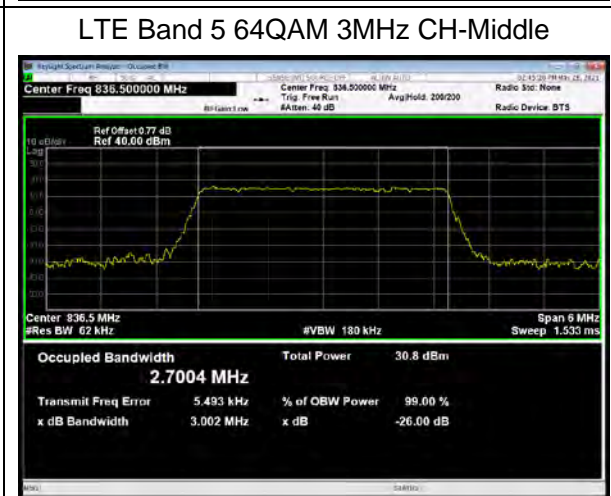
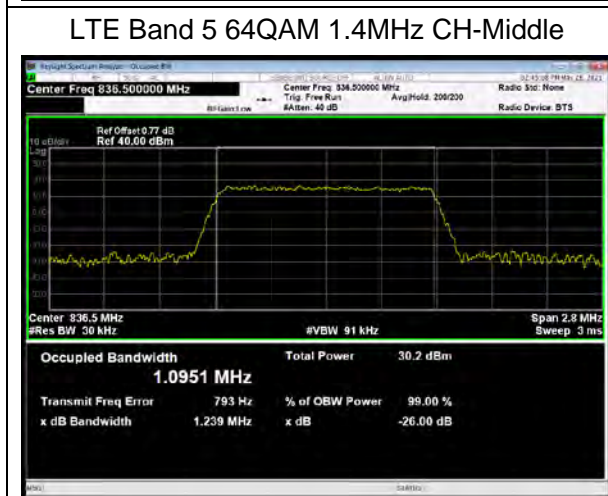
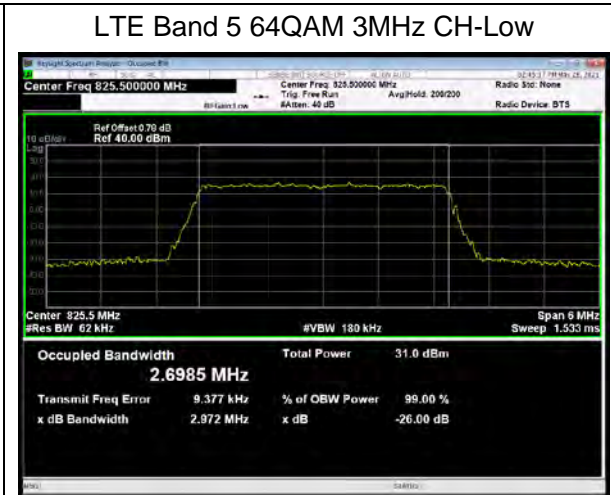
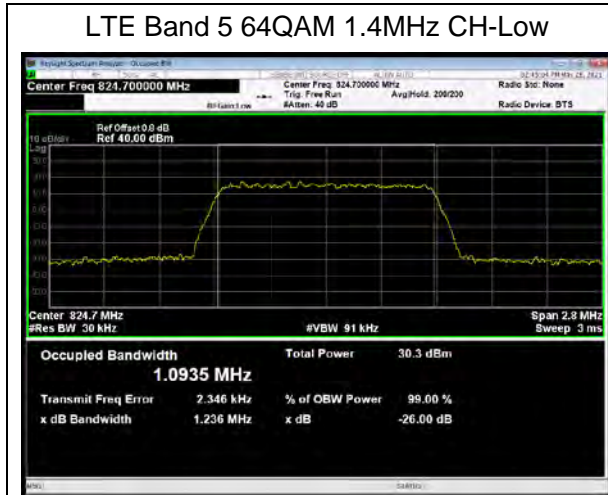


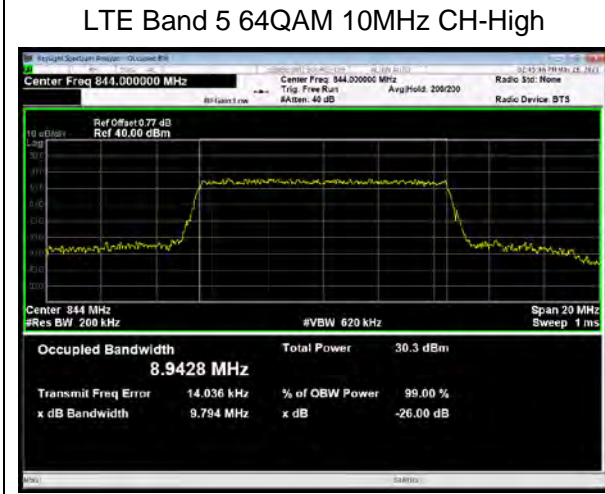
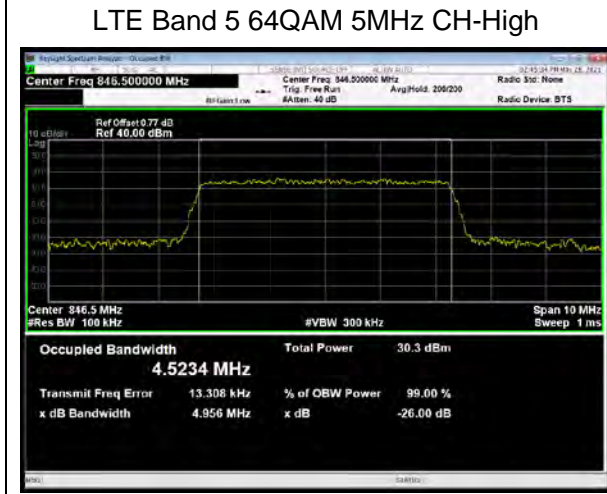
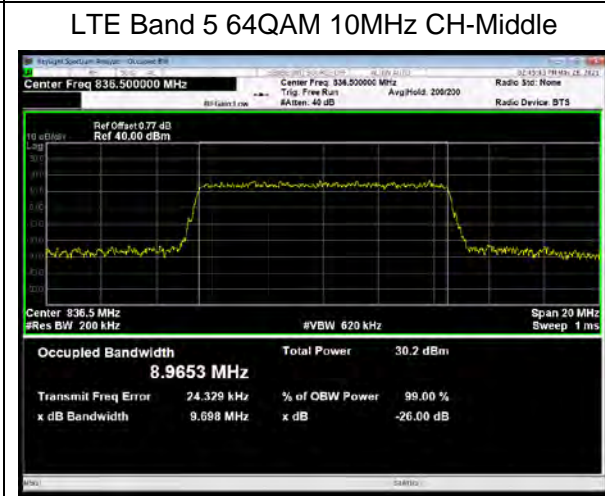
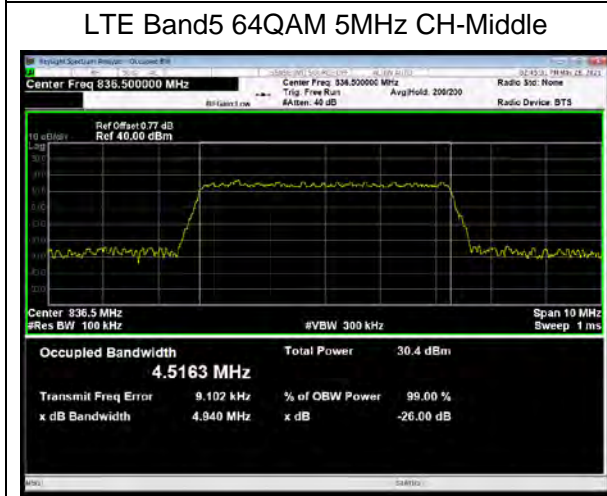
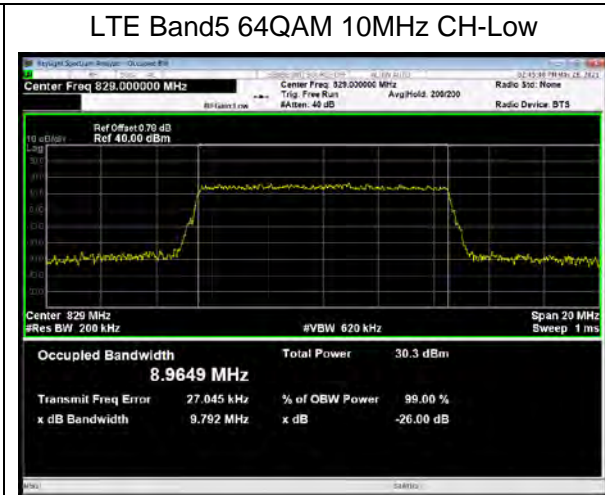
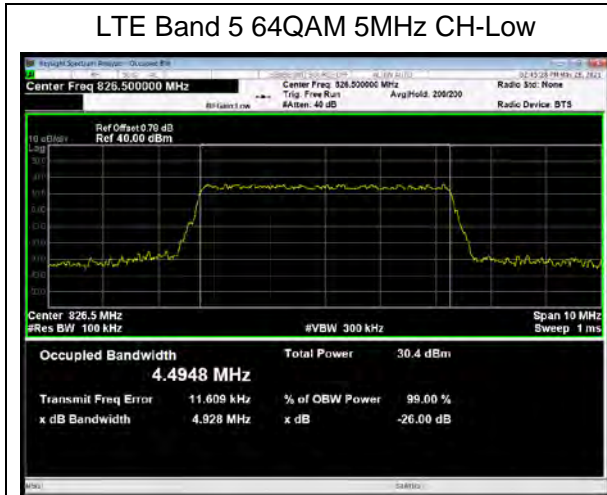


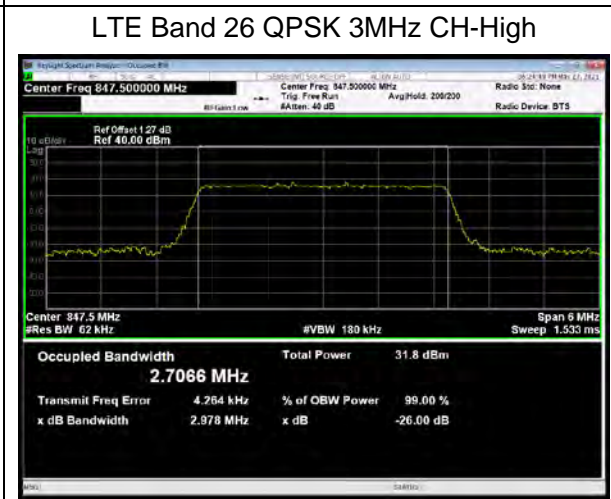
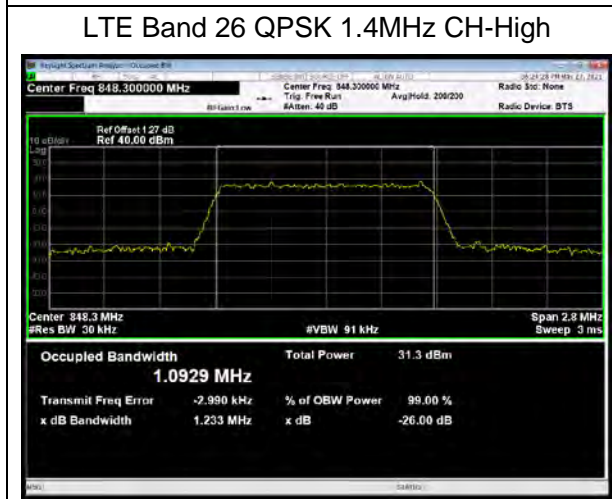
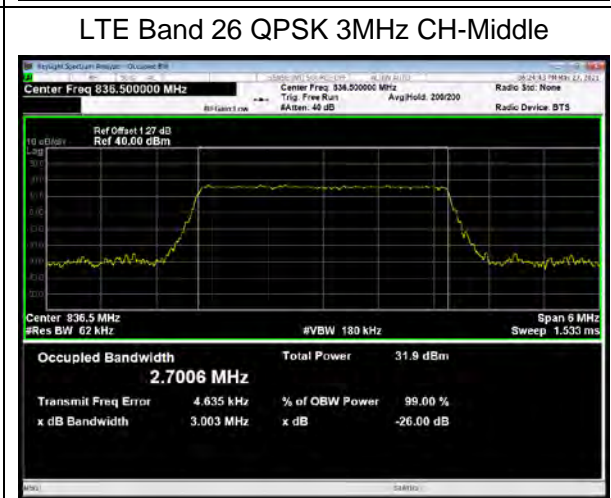
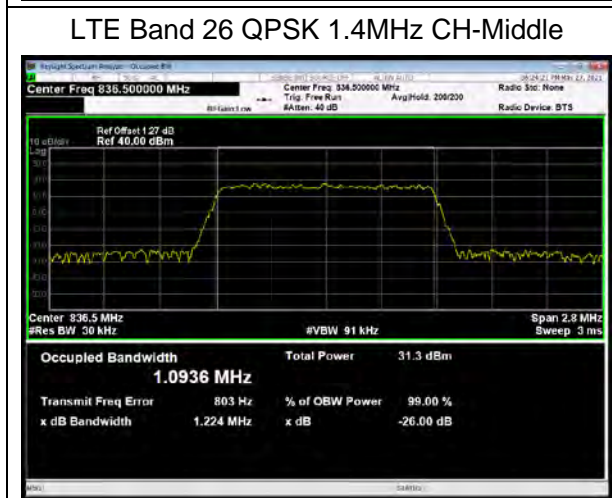
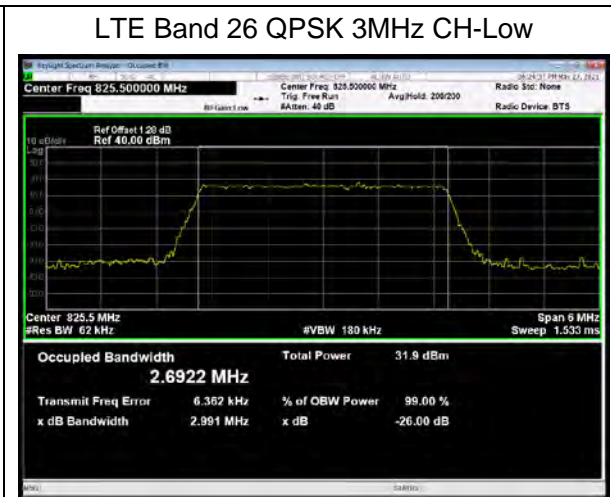
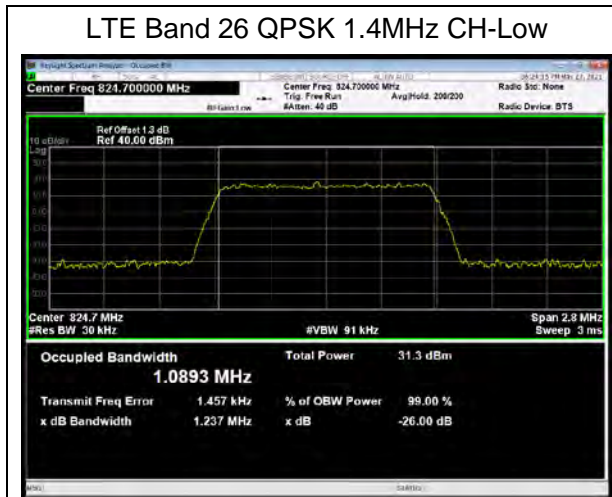


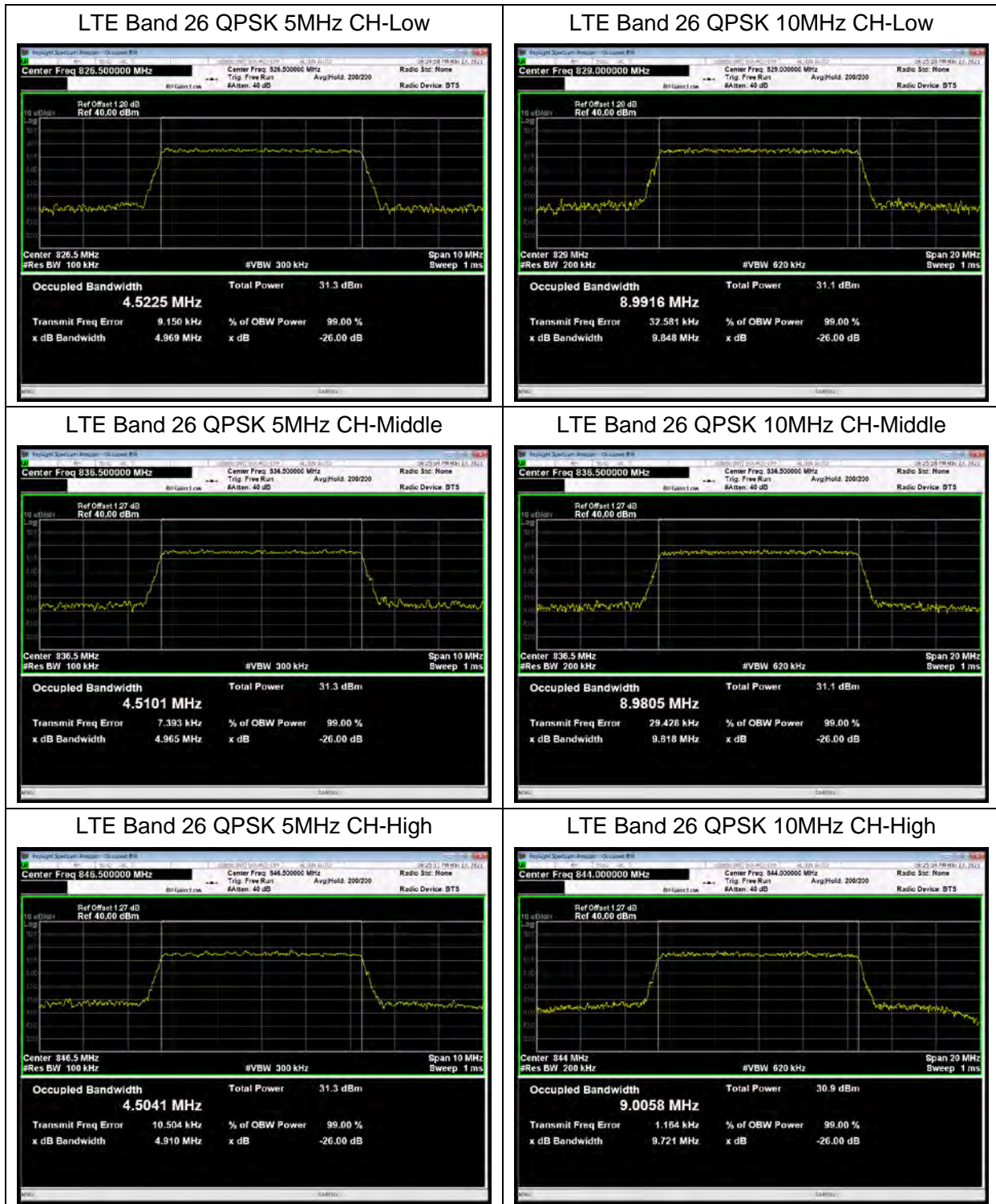


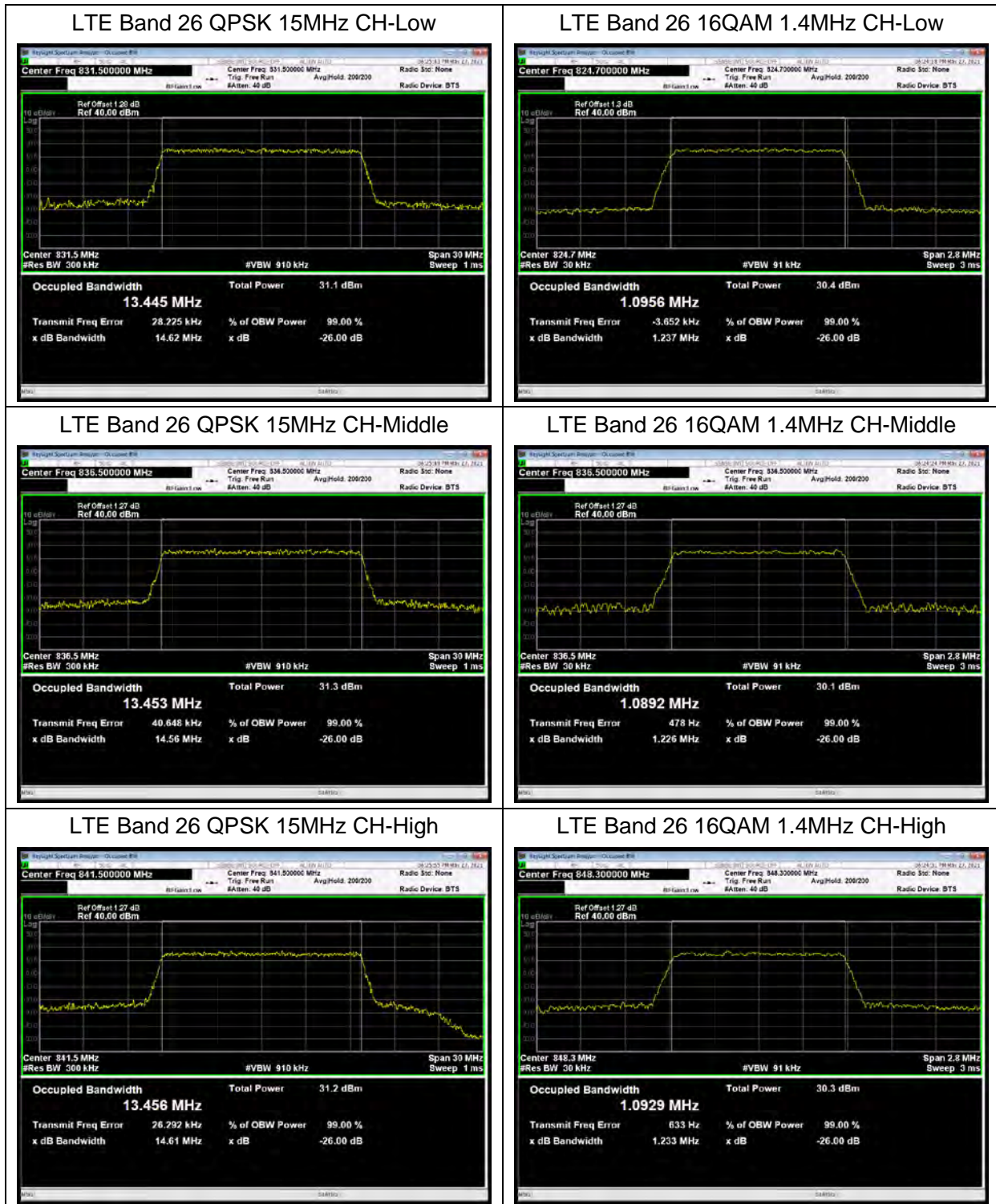


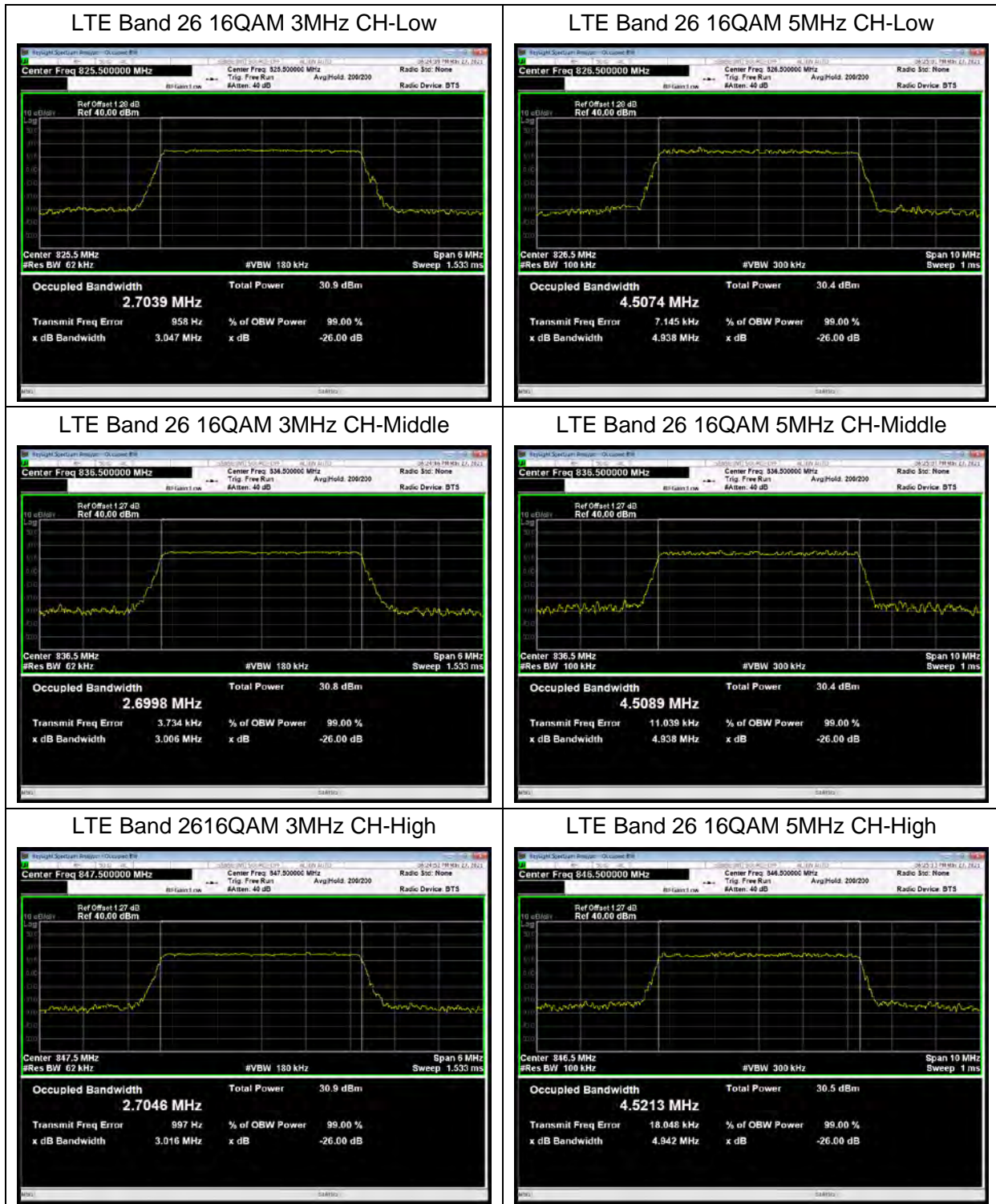


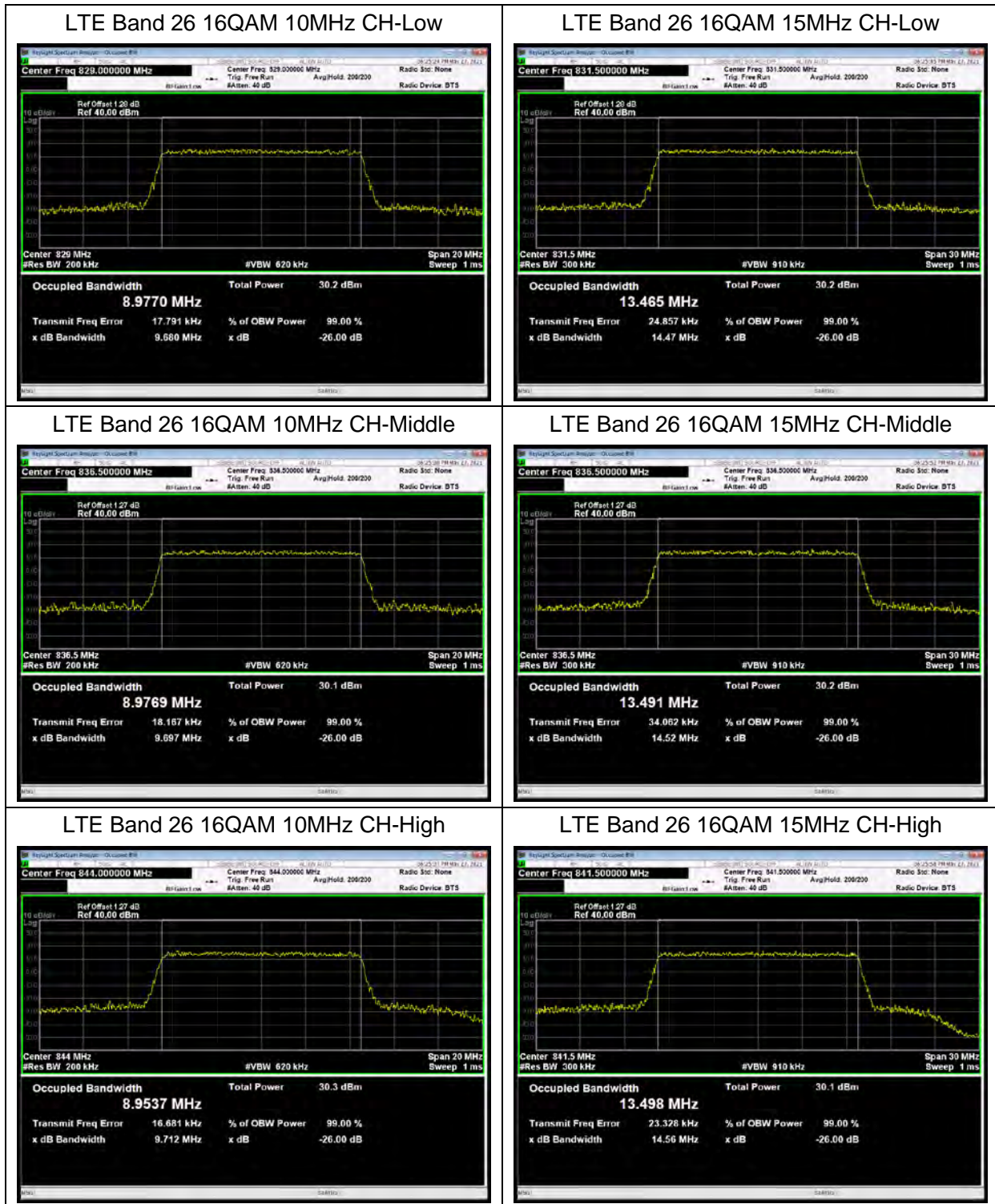


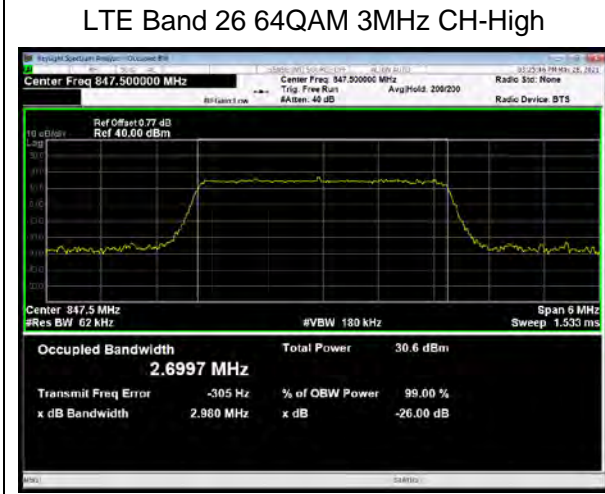
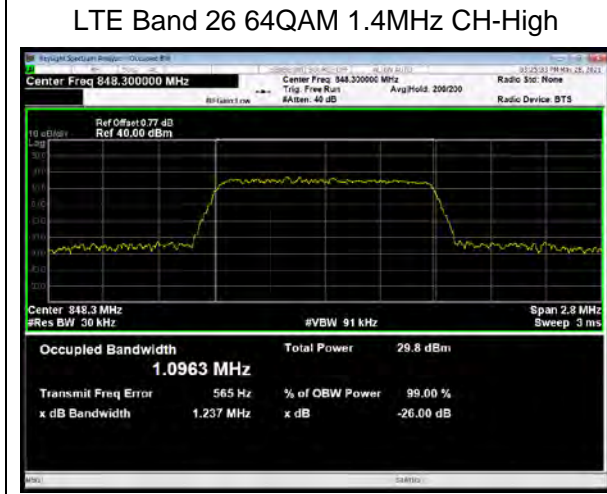
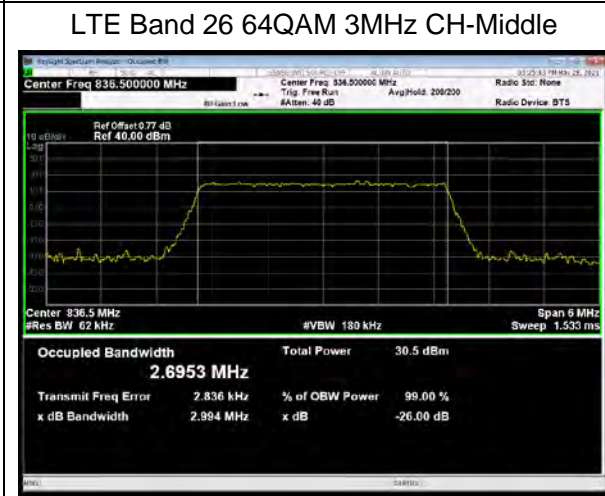
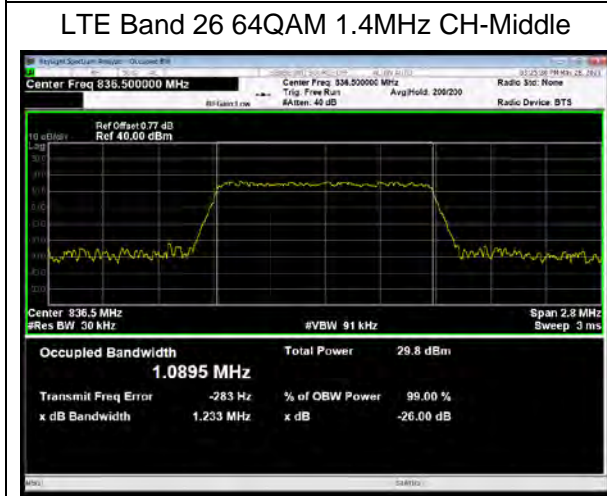
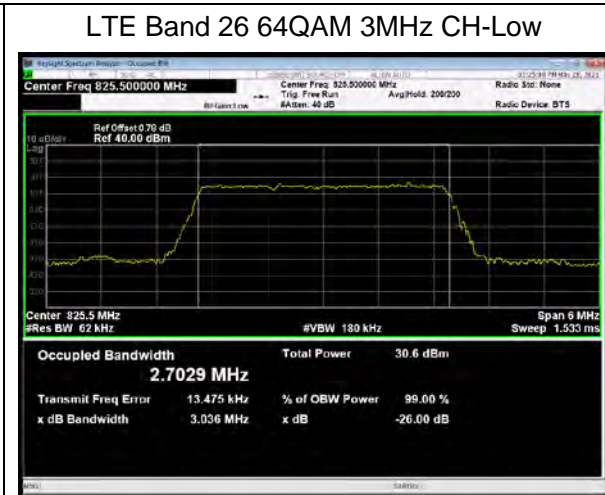
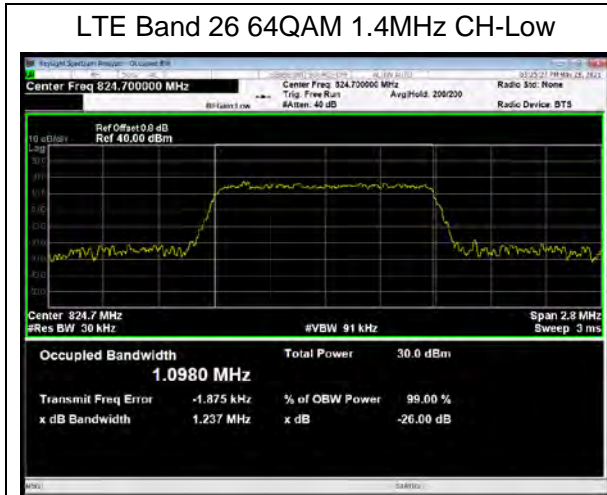


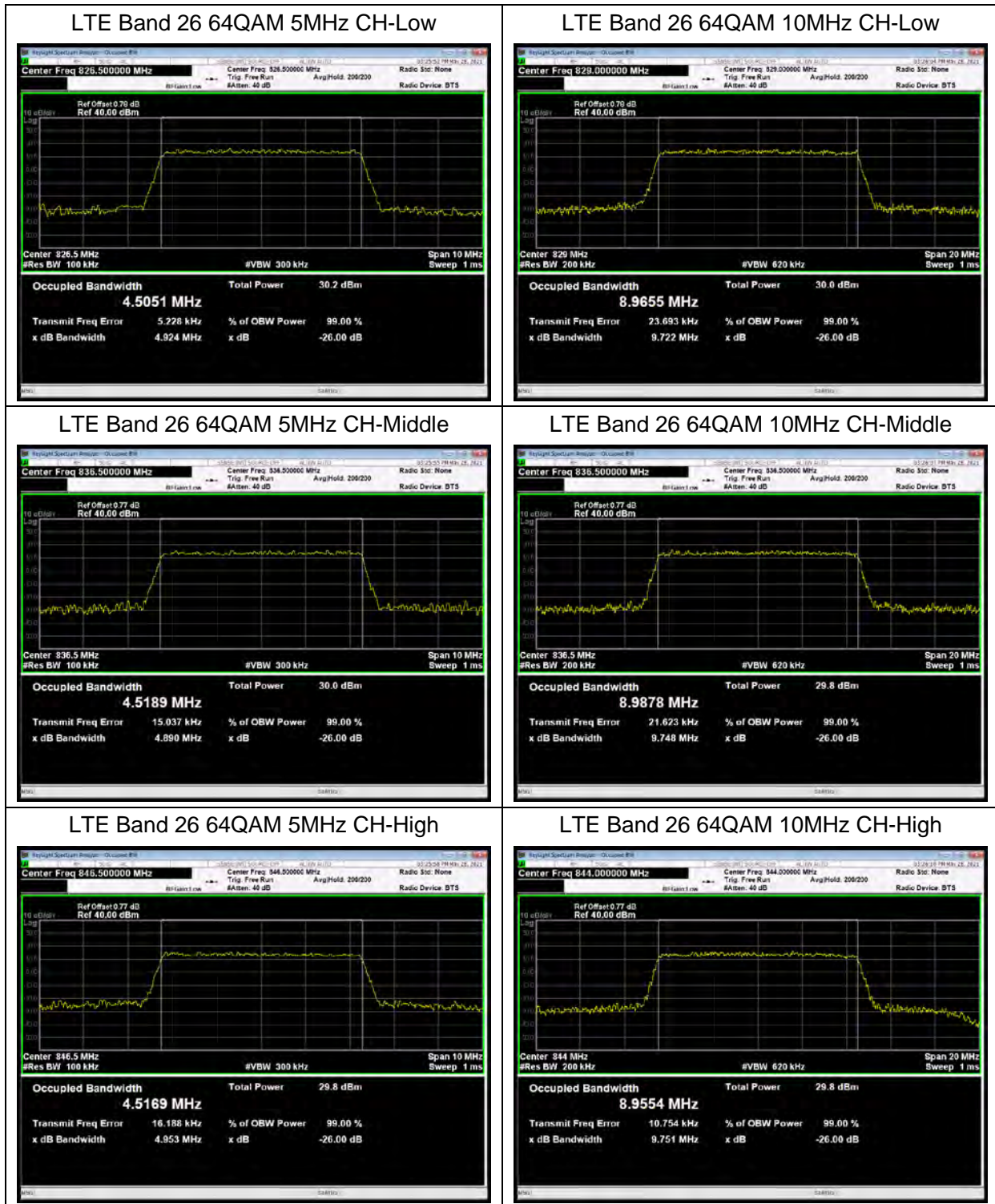




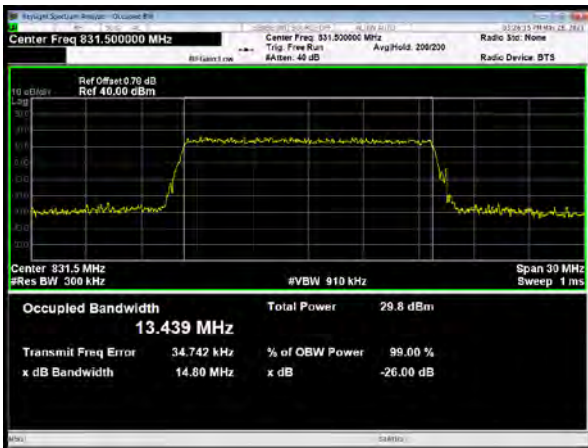




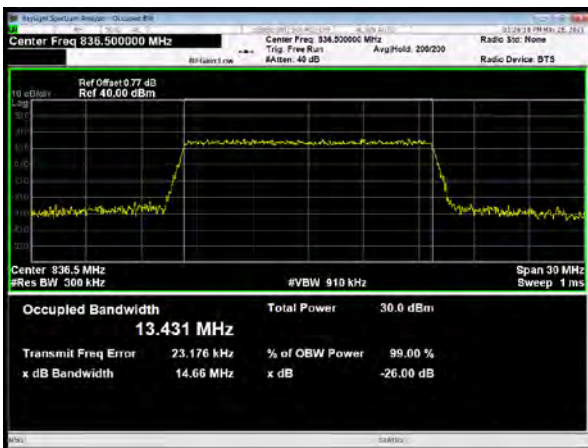




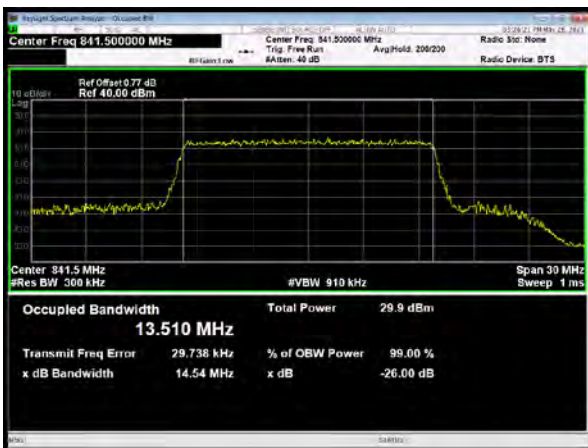
LTE Band 26 64QAM 15MHz CH-Low



LTE Band 26 64QAM 15MHz CH-Middle



LTE Band 26 64QAM 15MHz CH-High



5.3. Band Edge Compliance

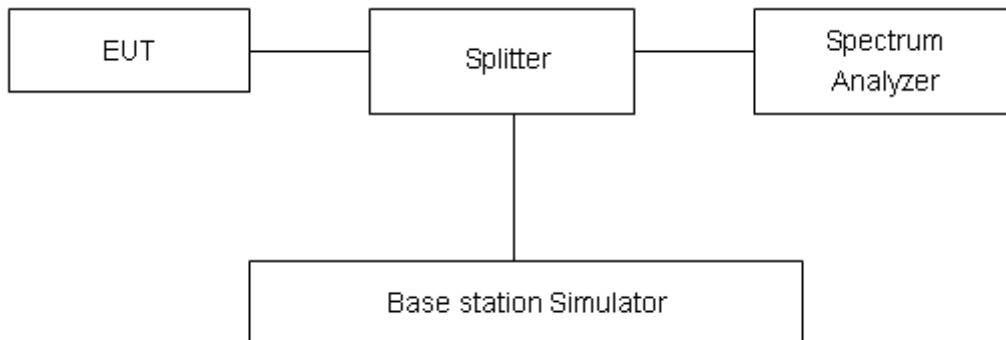
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The average detector is used. RBW is set to 6.2kHz,VBW is set to 20kHz for GSM 850, RBW is set to 51kHz,VBW is set to 160kHz for WCDMA Band V, RBW is set to 15kHz, VBW is set to 43kHz for LTE Band 5 /26(1.4MHz), RBW is set to 33kHz,VBW is set to 100kHz for LTE Band 5/26 (3MHz), RBW is set to 51kHz,VBW is set to 150kHz for LTE Band 5/26 (5MHz), RBW is set to 100kHz,VBW is set to 300kHz for LTE Band 5/26 (10MHz), RBW is set to 150kHz,VBW is set to 470kHz for LTE Band 26 (15MHz). Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 22.917(a) specifies 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.”

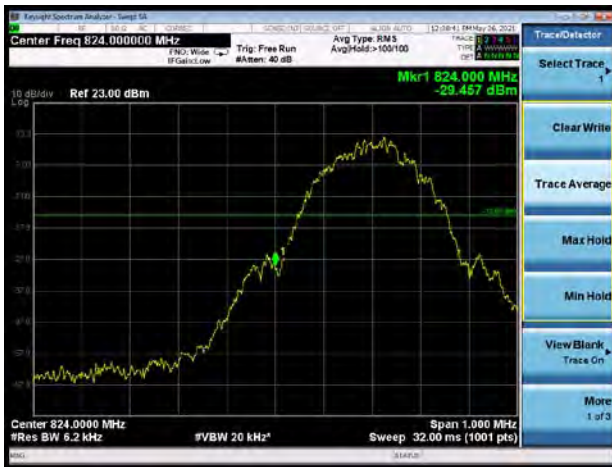
Limit	-13 dBm
-------	---------

Measurement Uncertainty

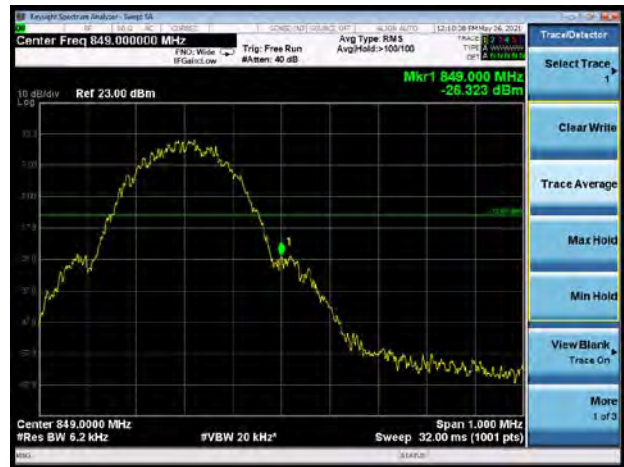
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684$ dB.

Test Result

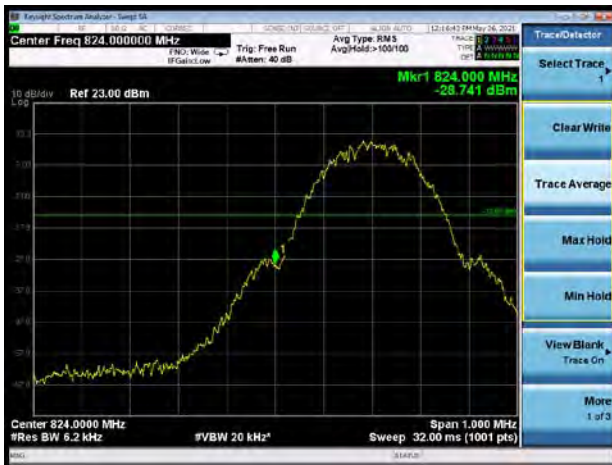
GSM 850 CH-Low



GSM 850 CH-High



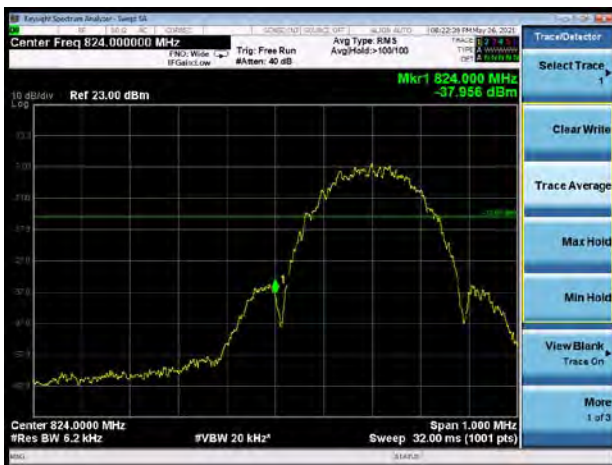
GSM 850 GPRS CH-Low



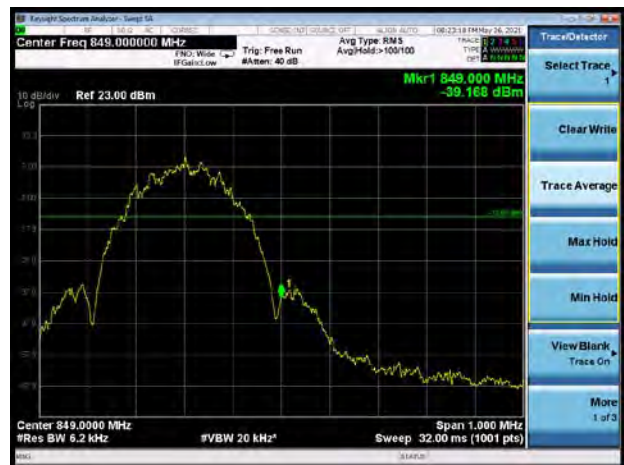
GSM 850 GPRS CH-High



GSM 850 EGPRS CH-Low



GSM 850 EGPRS CH-High





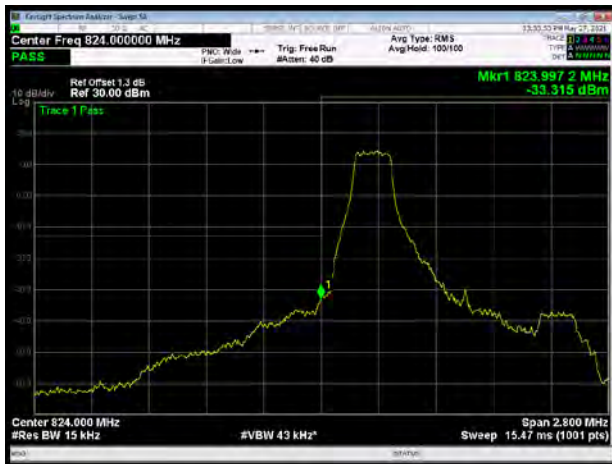
WCDMA Band V CH-Low



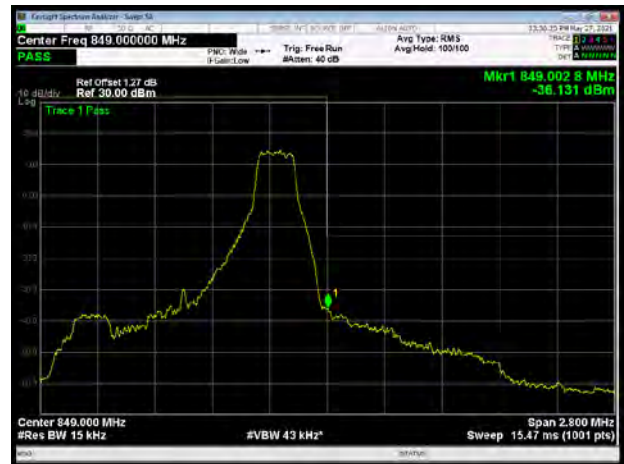
WCDMA Band V CH-High



LTE Band 5 QPSK 1.4MHz CH-Low 1RB



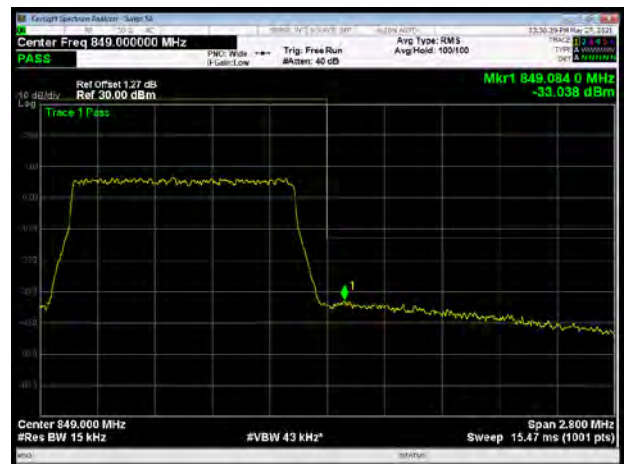
LTE Band 5 QPSK 1.4MHz CH-High 1RB



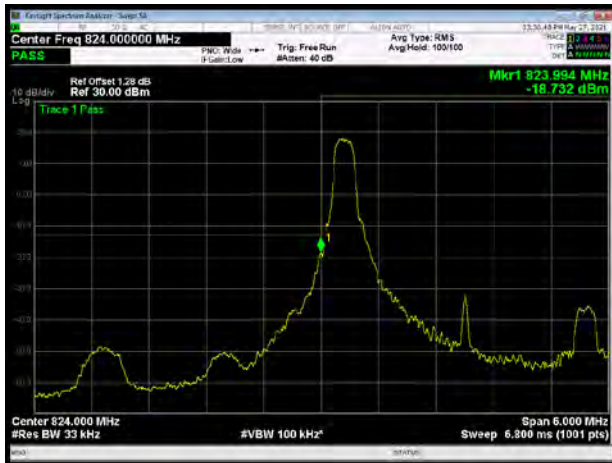
LTE Band 5 QPSK 1.4MHz CH-Low 100%RB



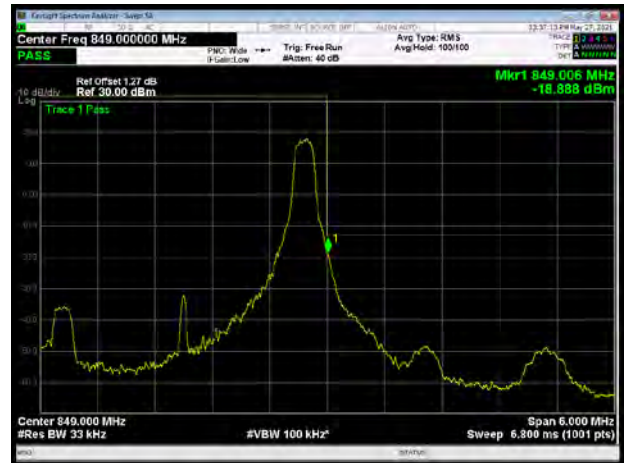
LTE Band 5 QPSK 1.4MHz CH-High 100%RB



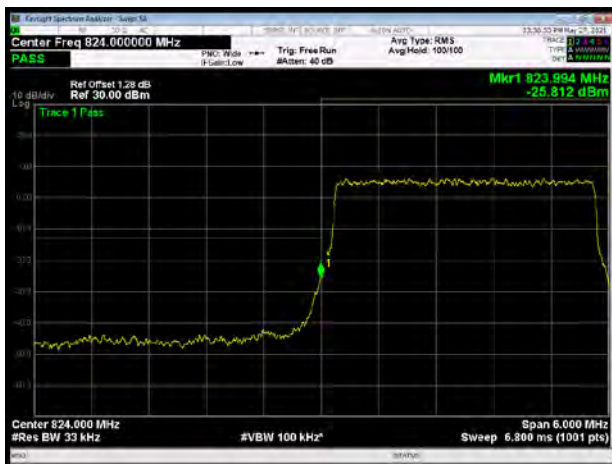
LTE Band 5 QPSK 3MHz CH-Low 1RB



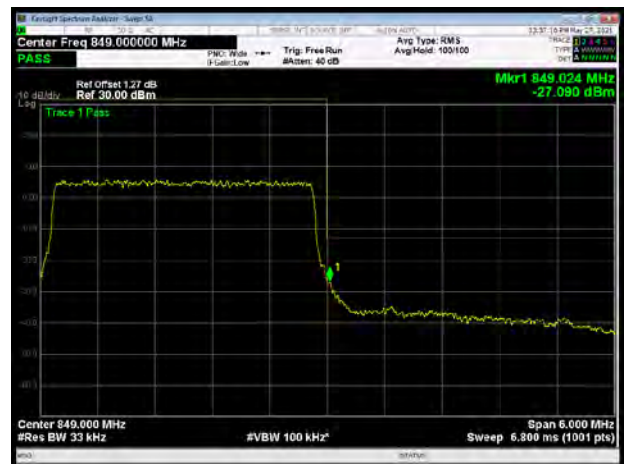
LTE Band 5 QPSK 3MHz CH-High 1RB



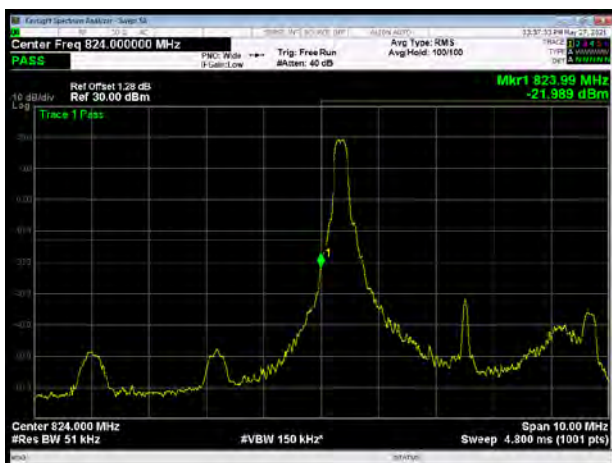
LTE Band 5 QPSK 3MHz CH-Low 100%RB



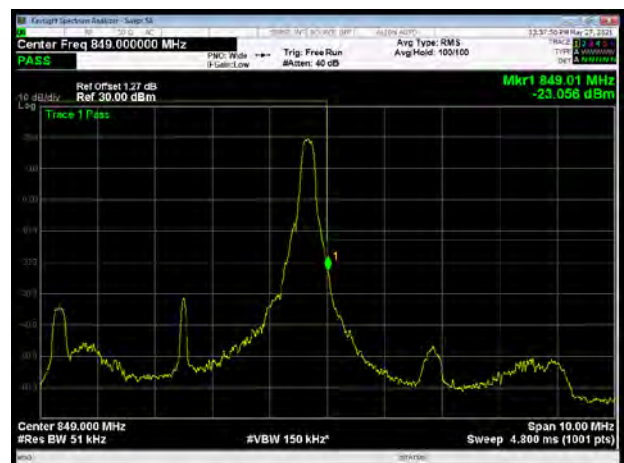
LTE Band 5 QPSK 3MHz CH-High 100%RB



LTE Band 5 QPSK 5MHz CH-Low 1RB

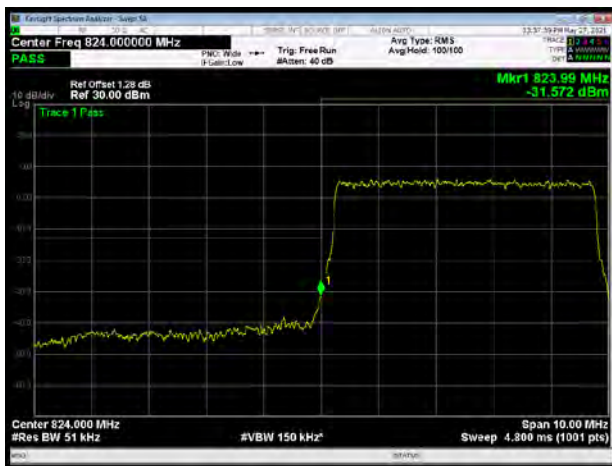


LTE Band 5 QPSK 5MHz CH-High 1RB

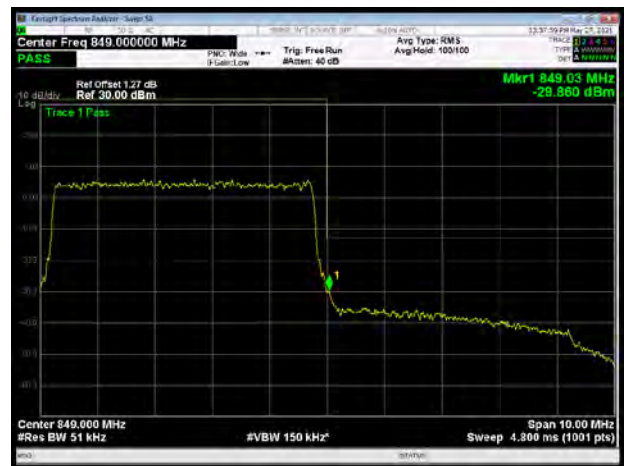




LTE Band 5 QPSK 5MHz CH-Low 100%RB



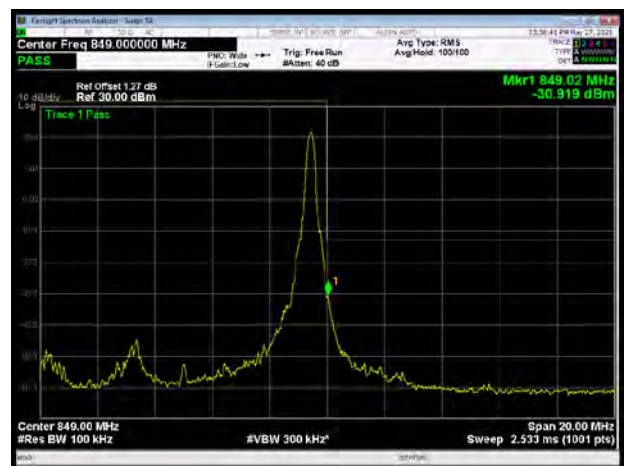
LTE Band 5 QPSK 5MHz CH-High 100%RB



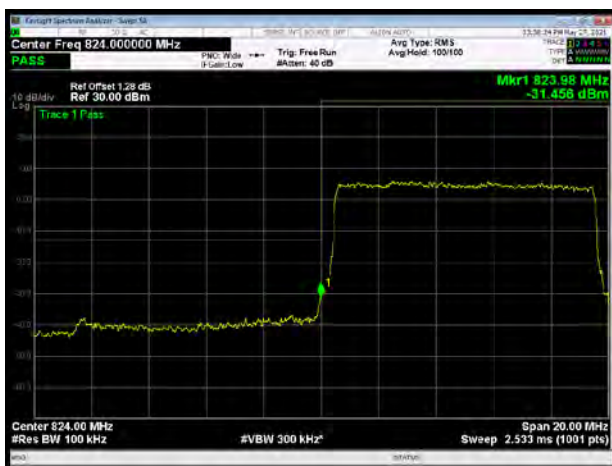
LTE Band 5 QPSK 10MHz CH-Low 1RB



LTE Band 5 QPSK 10MHz CH-High 1RB



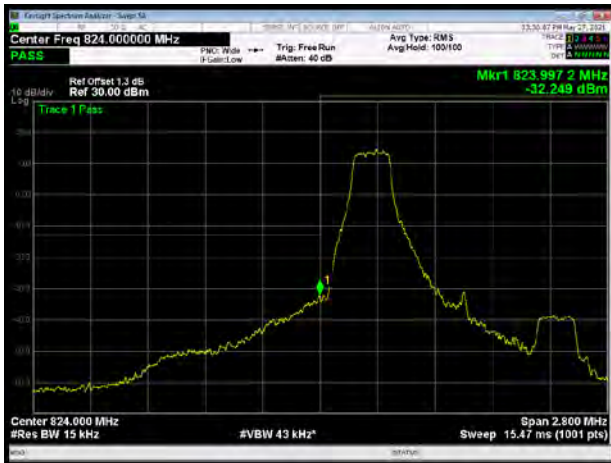
LTE Band 5 QPSK 10MHz CH-Low 100%RB



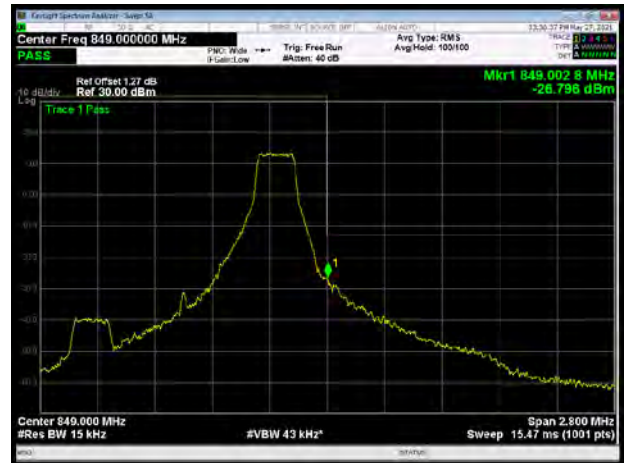
LTE Band 5 QPSK 10MHz CH-High 100%RB



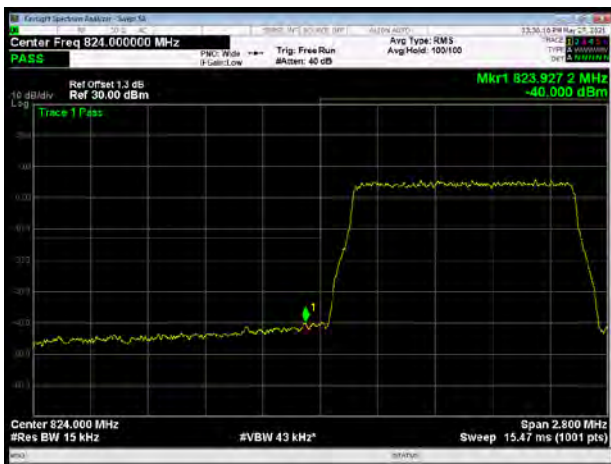
LTE Band 5 16QAM 1.4MHz CH-Low 1RB



LTE Band 5 16QAM 1.4MHz CH-High 1RB



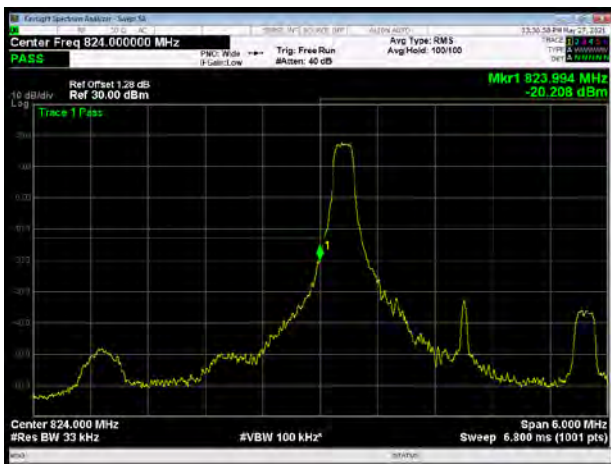
LTE Band 5 16QAM 1.4MHz CH-Low 100%RB



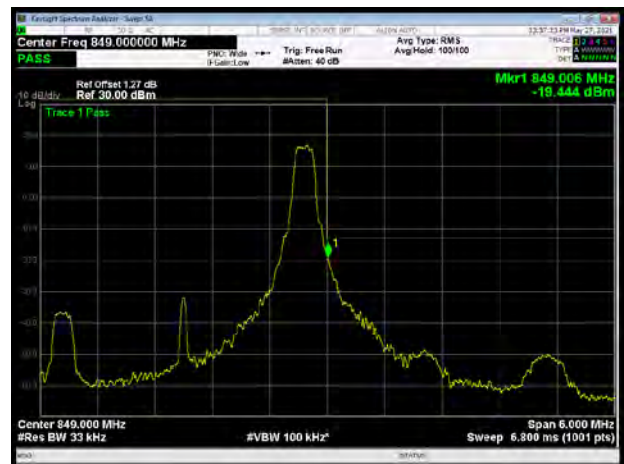
LTE Band 5 16QAM 1.4MHz CH-High 100%RB



LTE Band 5 16QAM 3MHz CH-Low 1RB

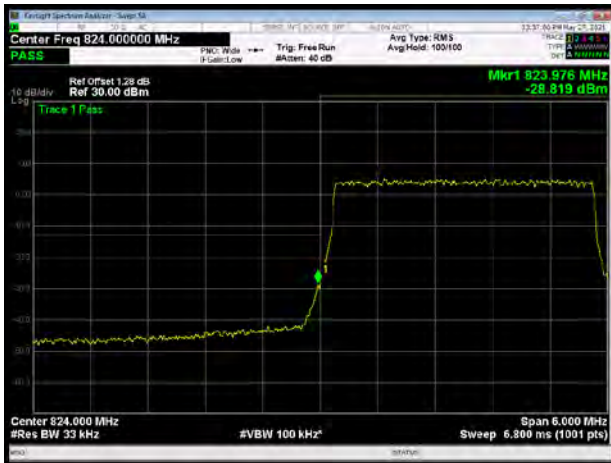


LTE Band 5 16QAM 3MHz CH-High 1RB





LTE Band 5 16QAM 3MHz CH-Low 100%RB



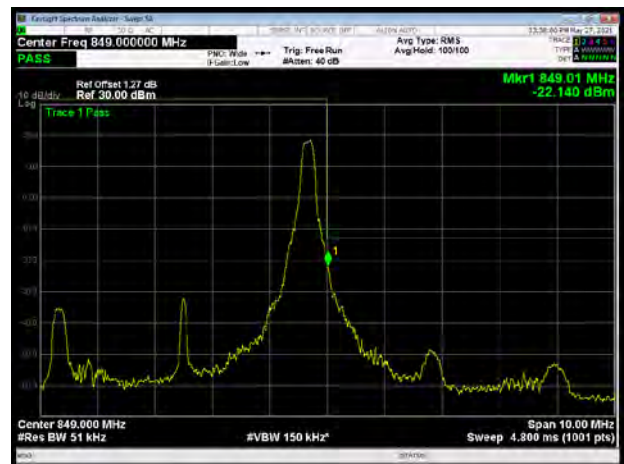
LTE Band 5 16QAM 3MHz CH-High 100%RB



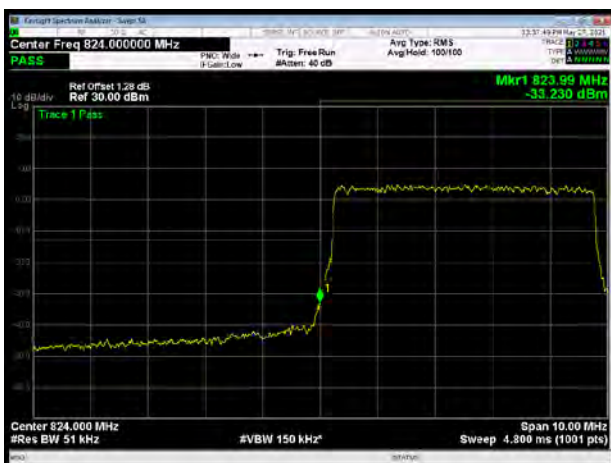
LTE Band 5 16QAM 5MHz CH-Low 1RB



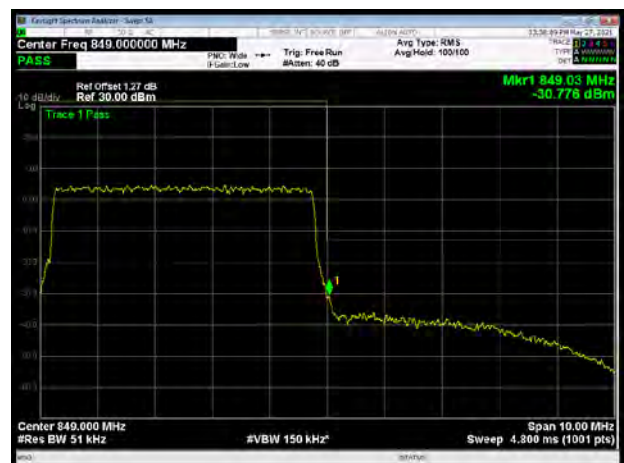
LTE Band 5 16QAM 5MHz CH-High 1RB



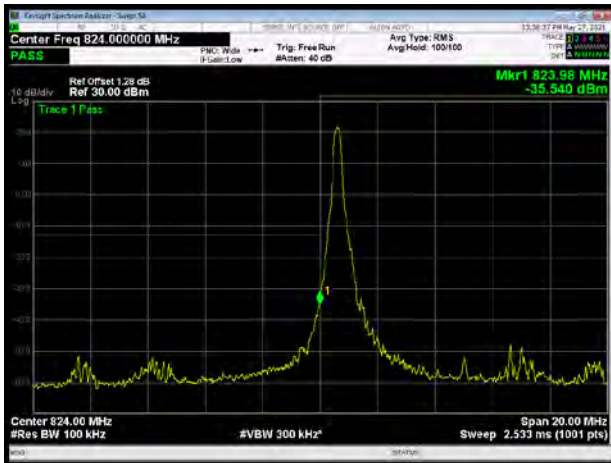
LTE Band 5 16QAM 5MHz CH-Low 100%RB



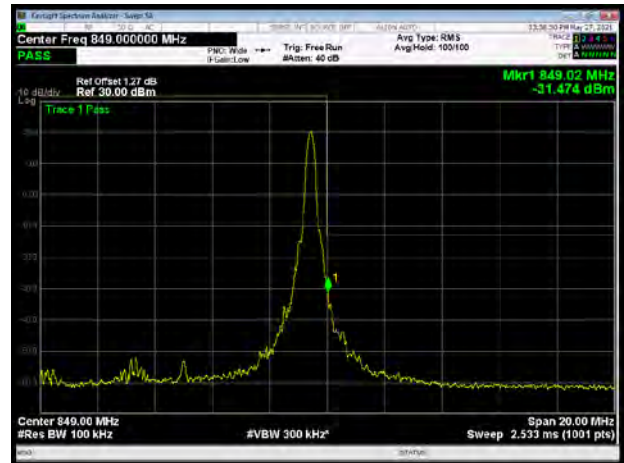
LTE Band 5 16QAM 5MHz CH-High 100%RB



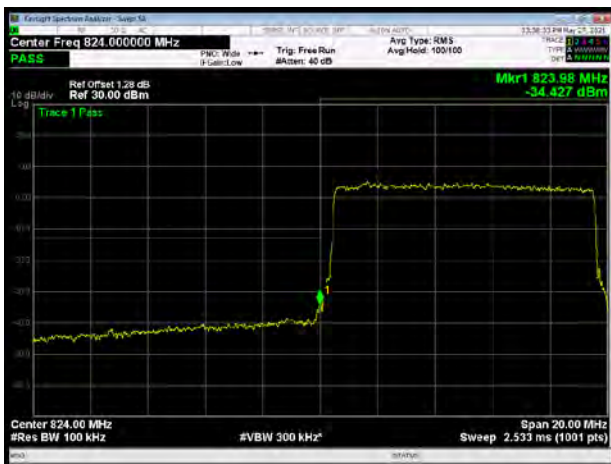
LTE Band 5 16QAM 10MHz CH-Low 1RB



LTE Band 5 16QAM 10MHz CH-High 1RB



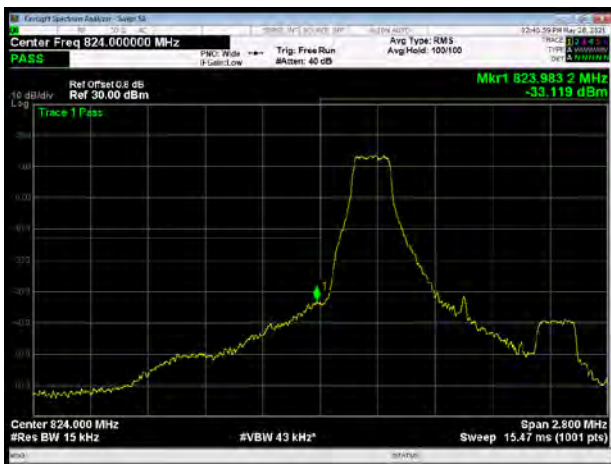
LTE Band 5 16QAM 10MHz CH-Low 100%RB



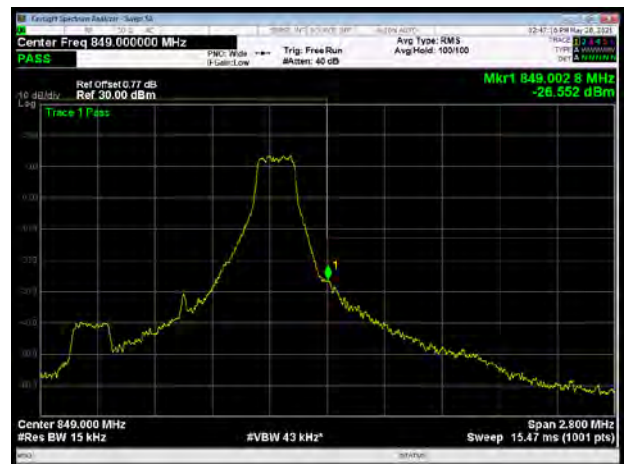
LTE Band 5 64QAM 10MHz CH-High 100%RB



LTE Band 5 64QAM 1.4MHz CH-Low 1RB

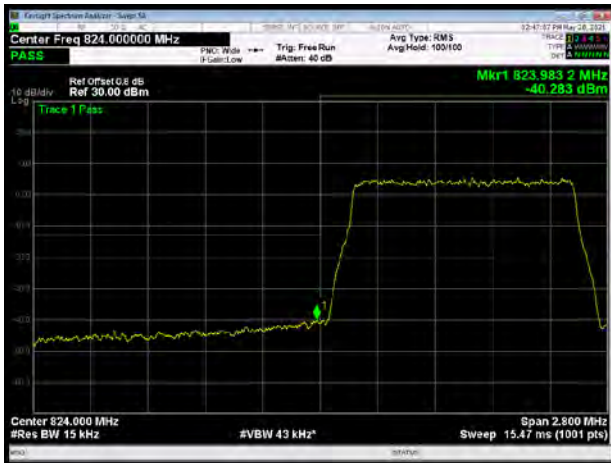


LTE Band 5 64QAM 1.4MHz CH-High 1RB





LTE Band 5 64QAM 1.4MHz CH-Low 100%RB



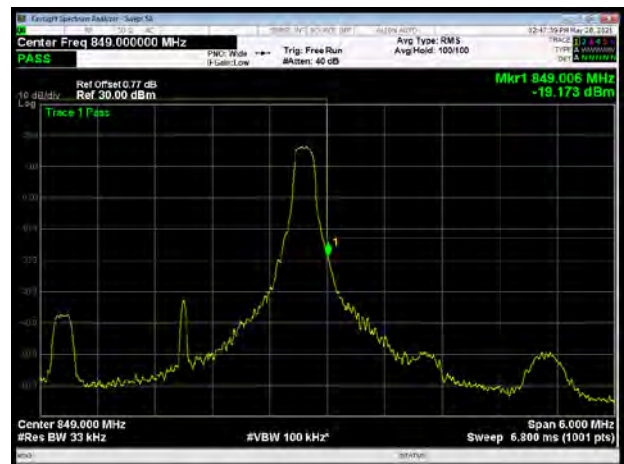
LTE Band 5 64QAM 1.4MHz CH-High 100%RB



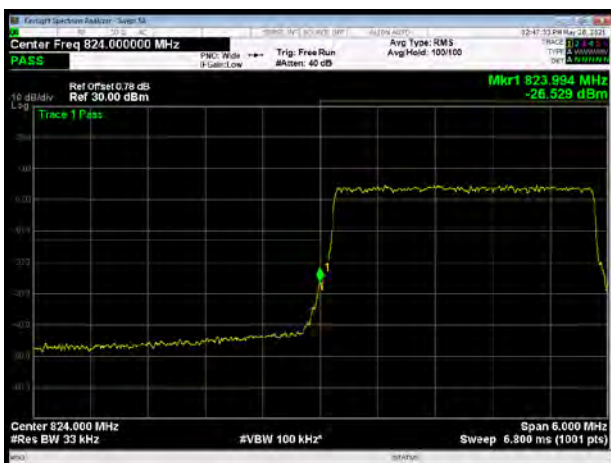
LTE Band 5 64QAM 3MHz CH-Low 1RB



LTE Band 5 64QAM 3MHz CH-High 1RB



LTE Band 5 64QAM 3MHz CH-Low 100%RB



LTE Band 5 64QAM 3MHz CH-High 100%RB

