



RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-ZTEN9519
Product LTE/CDMA/WCDMA/GSM(GPRS)
Multi-Mode Digital Mobile Phone
Model N9519
Report No. RXA1601-0005RF01R2
Issue Date March 29, 2016

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

Changxu Wan

Performed by: Changxu Wan

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Summary of measurement results

No.	Test Type	Clause in FCC rules	Verdict
1	RF power output	2.1046	PASS
2	Effective Radiated Power	22.913(a)(2)	PASS
3	Occupied Bandwidth	2.1049	PASS
4	Band Edge Compliance	2.1051 / 22.917(a)	PASS
5	Peak-to-Average Power Ratio	KDB 971168 D01(5.7)	PASS
6	Frequency Stability	2.1055 / 22.355	PASS
7	Spurious Emissions at Antenna Terminals	2.1051 / 22.917(a)	PASS
8	Radiates Spurious Emission	2.1053 / 22.917 (a)	PASS
Date of Testing: January 4, 2016~ March 24, 2016			



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. This report must not be used by the client to claim product certification, approval, or endorsement by CNAS or any government agencies.

1.2. Test facility

CNAS (accreditation number:L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (recognition number is 428261)

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

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

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



1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
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2. General Description of Equipment under Test

Client Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District Shenzhen, Guangdong, P.R.China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District Shenzhen, Guangdong, P.R.China

General Information

Model:	N9519		
Product MEID:	99000677000320		
Hardware Version:	cuhA		
Software Version:	N9519V1.0.0B01		
Power Supply:	Battery/AC adapter		
Antenna Type:	Internal Antenna		
Test Mode(s):	GSM 850: WCDMA Band V; CDMA BC0; LTE Band 5/26;		
Test Modulation:	(GSM)GMSK,8PSK; (CDMA)QPSK; (WCDMA)QPSK (LTE)QPSK 16QAM;		
GPRS/ EGPRS Multislot Class:	33		
HSDPA UE Category:	24		
HSUPA UE Category:	4		
Maximum E.R.P.	GSM 850: 28.33 dBm WCDMA Band V: 19.01 dBm CDMA BC0: 18.91dBm LTE Band 5: 18.38dBm LTE Band 26: 19.30dBm		
Rated Power Supply Voltage:	3.8V		
Extreme Voltage:	Minimum: 3.6V Maximum: 4.35V		
Extreme Temperature:	Lowest: -10°C Highest: +55°C		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM850	824 ~ 849	869 ~ 894
	WCDMA Band V	824 ~ 849	869 ~ 894
	CDMA BC0	824 ~ 849	869 ~ 894
	LTE Band 5	824 ~ 849	869 ~ 894



	LTE Band 26	824 ~ 849	859 ~ 894
EUT Accessory			
Battery	Manufacturer: SCUD(FUJIAN)ELECTRONICS Model: Li3831T43P4h826247 Power Rating: DC 3.8V, Li-ion		
Adapter	Manufacturer: Salcomp Model: STC-A515A-Z		
Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.			



3. Applied Standards

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

FCC CFR47 Part 2 (2014)

FCC CFR 47 Part 22H (2014)

ANSI/TIA-603-D (2010)

KDB 971168 D01 Power Meas License Digital Systems v02r02

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, vertical polarization) and the worst case was recorded.

All mode and data rates and positions were investigated.

The following testing in GSM/CDMA/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	CDMA BC0
Conducted Test cases	RF power output	GSM /GPRS /EGPRS	RMC HSDPA HSUPA DC-HSDPA HSPA+	1xRTT EV-DO Rev.0 EV-DO Rev.A
	Occupied Bandwidth	GSM /GPRS /EGPRS	RMC	EV-DO Rev.0
	Band Edge Compliance	GSM /GPRS /EGPRS	RMC	EV-DO Rev.0
	Peak-to-Average Power Ratio	GSM /GPRS /EGPRS	RMC	EV-DO Rev.0
	Frequency Stability	GSM /GPRS /EGPRS	RMC	EV-DO Rev.0
	Spurious Emissions at Antenna Terminals	GSM	RMC	EV-DO Rev.0
Radiated Test cases	Effective Radiated Power	GSM /GPRS /EGPRS	RMC	1xRTT EV-DO Rev.0
	Radiates Spurious Emission	GSM	RMC	EV-DO Rev.0



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	1	50%	100%	L	M	H	
RF power output	LTE 5	O	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	O
Effective Isotropic Radiated power	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	
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	-	-	O	O	O	
	LTE 26	O	O	O	O	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

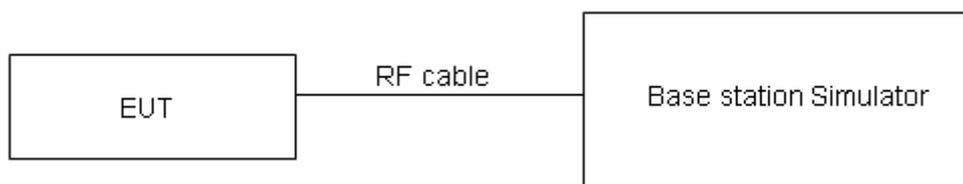
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

Test Results

GSM 850		AV Conducted Power(dBm)		
		Channel 128	Channel 190	Channel 251
		824.2 (MHz)	836.6 (MHz)	848.8 (MHz)
GSM	Results	32.78	32.76	32.63
GPRS (GMSK)	1TXslot	32.80	32.98	32.99
	2TXslots	32.66	32.85	32.77
	3TXslots	32.51	32.68	32.61
	4TXslots	32.33	32.48	32.47
EGPRS (8PSK)	1TXslot	26.31	26.48	26.42
	2TXslots	26.29	26.41	26.32
	3TXslots	26.15	26.21	26.22
	4TXslots	26.02	26.10	26.04

Note: 1) The maximum RF Output Power numbers are marks in bold.
 2) The following testing in GPRS/EGPRS is set to 1TXslot based on the maximum RF Output Power.

WCDMA Band V		AV Conducted Power(dBm)		
		Channel 4132	Channel 4183	Channel 4233
		826.4(MHz)	836.6(MHz)	846.6(MHz)
RMC		23.95	24.17	23.98
HSDPA	Sub - Test 1	23.84	24.02	23.81
	Sub - Test 2	23.83	23.96	23.82
	Sub - Test 3	23.28	23.45	23.42
	Sub - Test 4	23.29	23.46	23.41
HSUPA	Sub - Test 1	23.78	23.95	23.90
	Sub - Test 2	21.86	22.03	21.89
	Sub - Test 3	22.85	23.02	22.88
	Sub - Test 4	21.84	22.01	21.87
	Sub - Test 5	23.83	24.00	23.86
HSDPA+	Sub - Test 1	23.74	24.01	23.88
	Sub - Test 2	23.89	24.00	23.82
	Sub - Test 3	23.30	23.45	23.31
	Sub - Test 4	23.29	23.46	23.32
HSUPA+	Sub - Test 1	23.78	23.95	23.81
	Sub - Test 2	21.86	22.03	21.89
	Sub - Test 3	22.85	23.02	22.88
	Sub - Test 4	21.84	22.01	21.87



	Sub - Test 5	23.83	24.00	23.86
DC-HSDPA	Sub - Test 1	23.82	23.99	23.85
	Sub - Test 2	23.75	24.08	23.83
	Sub - Test 3	23.24	23.57	23.32
	Sub - Test 4	23.39	23.56	23.31
Note: 1) The maximum RF Output Power numbers are marks in bold. 2) The following testing in RMC based on the maximum RF Output Power.				

CDMA BC0			AV Conducted Power(dBm)		
			Channel 1013	Channel 384	Channel 777
			824.7(MHz)	836.52(MHz)	848.31(MHz)
1xRTT	RC1	SO55 (Loopback)	23.41	23.46	23.63
	RC3	SO55 (Loopback)	23.42	23.48	23.56
		TDSO32 (FCH+SCH)	23.44	23.48	23.64
		TDSO32 (FCH)	23.42	23.49	23.65
EV-DO	Rev.0	RTAP	23.47	23.53	23.70
	Rev.A	RETAP	23.43	23.51	23.55
Note: 1) The maximum RF Output Power numbers are marks in bold. 2) The following testing in Rev 0 based on the maximum RF Output Power.					

LTE FDD Band 5				Conducted Power(dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				20407/824.7	20525/836.5	20643/848.3
1.4MHz	QPSK	1	0	23.67	23.64	23.57
		1	2	23.54	23.71	23.58
		1	5	23.69	23.74	23.56
		3	0	23.29	23.34	23.30
		3	2	23.20	23.39	23.33
		3	3	23.22	23.23	23.33
	16QAM	6	0	22.51	22.57	22.67
		1	0	23.16	22.95	22.87
		1	2	22.57	22.88	22.41
		1	5	22.69	22.16	22.15
		3	0	22.78	22.55	22.37
		3	2	22.26	22.36	22.10
		3	3	22.18	22.04	22.03
		6	0	21.42	21.54	21.44
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				20415/825.5	20525/836.5	20635/847.5
3MHz	QPSK	1	0	23.62	23.59	23.52
		1	13	23.49	23.66	23.53
		1	24	23.64	23.69	23.52
		8	0	22.53	22.59	22.54
		8	6	22.45	22.63	22.57
		8	13	21.46	22.47	22.57
		15	0	22.46	22.52	22.62
	16QAM	1	0	23.11	22.90	22.82
		1	13	22.52	22.83	22.37
		1	24	22.64	22.11	22.10
		8	0	21.52	21.49	21.41
		8	6	21.40	21.50	21.44
		8	13	21.42	21.38	21.37
		15	0	21.37	21.49	21.39



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				20425/826.5	20525/836.5	20625/846.5
5MHz	QPSK	1	0	23.64	23.61	23.54
		1	13	23.52	23.68	23.55
		1	24	23.67	23.71	23.54
		12	0	22.55	22.61	22.56
		12	6	22.47	22.65	22.59
		12	13	21.48	22.49	22.59
		25	0	22.48	22.54	22.64
	16QAM	1	0	23.13	22.92	22.85
		1	13	22.54	22.85	22.39
		1	24	22.66	22.13	22.12
		12	0	21.54	21.52	21.43
		12	6	21.42	21.52	21.46
		12	13	21.45	21.40	21.39
		25	0	21.40	21.52	21.41
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				20450/829	20525/836.5	20600/844
10MHz	QPSK	1	0	23.65	23.63	23.56
		1	25	23.53	23.69	23.56
		1	49	23.68	23.72	23.55
		25	0	22.56	22.62	22.58
		25	13	22.48	22.67	22.60
		25	25	21.49	22.51	22.60
		50	0	22.49	22.56	22.66
	16QAM	1	0	23.15	22.94	22.86
		1	25	22.56	22.86	22.40
		1	49	22.67	22.14	22.14
		25	0	21.56	21.53	21.44
		25	13	21.43	21.54	21.47
		25	25	21.46	21.41	21.41
		50	0	21.41	21.53	21.43



LTE FDD Band 26				Conducted Power(dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26797/824.7	26915/836.5	27033/848.3
1.4MHz	QPSK	1	0	23.74	23.81	24.09
		1	2	23.70	23.91	23.76
		1	5	23.65	23.78	23.51
		3	0	23.46	23.56	23.76
		3	2	23.52	23.66	23.28
		3	3	23.41	23.54	23.15
		6	0	22.67	22.65	22.58
	16QAM	1	0	22.51	22.76	23.38
		1	2	22.77	23.16	22.66
		1	5	22.43	22.95	22.61
		3	0	22.24	22.54	22.78
		3	2	22.54	22.87	22.31
		3	3	22.13	22.53	22.10
		6	0	21.66	22.94	21.68
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26805/825.5	26915/836.5	27025/847.5
3MHz	QPSK	1	0	23.65	23.72	24.01
		1	13	23.61	23.82	23.68
		1	24	23.56	23.69	23.42
		8	0	22.62	22.66	22.67
		8	6	22.55	22.46	22.59
		8	13	22.52	22.44	22.46
		15	0	22.58	22.56	22.50
	16QAM	1	0	22.42	22.67	23.29
		1	13	22.68	23.07	22.58
		1	24	22.34	22.86	22.52
		8	0	21.54	22.64	21.66
		8	6	21.41	22.51	21.60
		8	13	21.43	22.43	21.38
		15	0	21.57	22.85	21.59
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26815/826.5	26915/836.5	27015/846.5
5MHz	QPSK	1	0	23.66	23.73	24.04
		1	13	23.62	23.83	23.71
		1	24	23.57	23.70	23.45
		12	0	22.63	22.67	22.70
		12	6	22.56	22.47	22.62



		12	13	22.53	22.45	22.49
		25	0	22.59	22.57	22.53
	16QAM	1	0	22.43	22.68	23.33
		1	13	22.69	23.08	22.61
		1	24	22.35	22.87	22.56
		12	0	21.55	22.65	21.69
		12	6	21.42	22.52	21.63
		12	13	21.44	22.44	21.42
		25	0	21.58	22.86	21.62
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26840/829	26915/836.5	26990/844
10MHz	QPSK	1	0	23.68	23.75	24.06
		1	25	23.64	23.85	23.73
		1	49	23.59	23.72	23.47
		25	0	22.65	22.69	22.72
		25	13	22.58	22.49	22.64
		25	25	22.55	22.47	22.51
		50	0	22.61	22.59	22.55
	16QAM	1	0	22.45	22.70	23.35
		1	25	22.71	23.10	22.63
		1	49	22.37	22.89	22.58
		25	0	21.57	22.67	21.71
		25	13	21.44	22.54	21.65
		25	25	21.46	22.46	21.44
		50	0	21.60	22.88	21.64
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26865/831.5	26915/836.5	26965/841.5
15MHz	QPSK	1	0	23.71	23.78	24.07
		1	38	23.67	23.88	23.74
		1	74	23.62	23.75	23.49
		36	0	22.68	22.72	22.73
		36	18	22.61	22.52	22.65
		36	39	22.58	22.50	22.52
		75	0	22.64	22.62	22.56
	16QAM	1	0	22.48	22.73	23.36
		1	38	22.74	23.13	22.64
		1	74	22.40	22.92	22.59
		36	0	21.60	22.70	21.72
		36	18	21.47	22.57	21.66



		36	39	21.49	22.49	21.45
		75	0	21.63	22.91	21.65

5.2. Effective Radiated Power

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

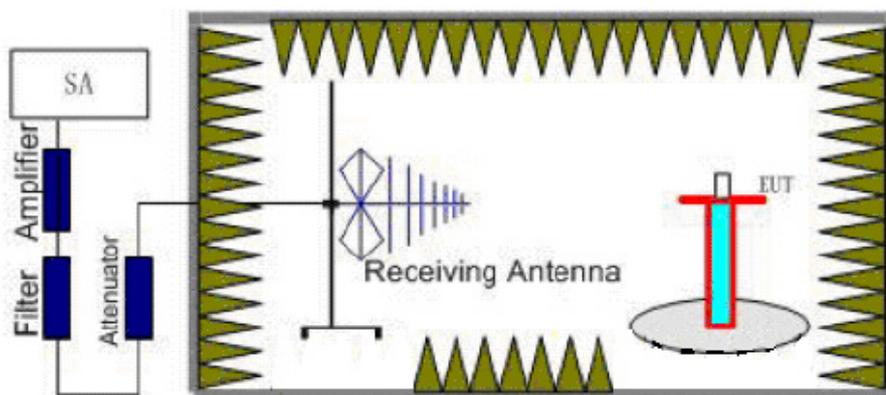
Methods of Measurement

The measurement procedures in TIA- 603-D are used.

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
 2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
 3. GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
UMTS operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
 4. The table was rotated 360 degrees to determine the position of the highest radiated power.
 5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
 6. Taking the record of maximum ERP/EIRP.
 7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
 8. The conducted power at the terminal of the dipole antenna is measured.
 9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
 10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$
- P_s (dBm) : Input power to substitution antenna.
 G_s (dBi or dBd) : Substitution antenna Gain.
 $E_t = R_t + AF$
 $E_s = R_s + AF$
 AF (dB/m) : Receive antenna factor
 R_t : The highest received signal in spectrum analyzer for EUT.
 R_s : The highest received signal in spectrum analyzer for substitution antenna.

$$EIRP = E.R.P + 2.15$$

Test Setup



**Limits**

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

Limit	$\leq 7 \text{ W}$ (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 $k = 2$, $U = 1.19 \text{ dB}$



Test Results:

Mode	Polarization	Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	Limit (dBm)	Conclusion
GSM 850	H	824.2	-21.53	-47.10	0	1.06	26.63	38.45	Pass
	H	836.6	-20.04	-47.13	0	1.24	28.33	38.45	Pass
	H	848.8	-20.45	-47.29	0	1.38	28.22	38.45	Pass
	V	824.2	-27.34	-46.91	0	1.06	20.63	38.45	Pass
	V	836.6	-27.10	-46.82	0	1.24	20.96	38.45	Pass
	V	848.8	-26.87	-47.04	0	1.38	21.55	38.45	Pass
GPRS 850	H	824.2	-20.66	-47.10	0	1.06	27.50	38.45	Pass
	H	836.6	-20.52	-47.13	0	1.24	27.85	38.45	Pass
	H	848.8	-21.79	-47.29	0	1.38	26.88	38.45	Pass
	V	824.2	-26.44	-46.91	0	1.06	21.53	38.45	Pass
	V	836.6	-26.02	-46.82	0	1.24	22.04	38.45	Pass
	V	848.8	-26.15	-47.04	0	1.38	22.27	38.45	Pass
EGPRS 850	H	824.2	-24.32	-47.10	0	1.06	23.84	38.45	Pass
	H	836.6	-25.22	-47.13	0	1.24	23.15	38.45	Pass
	H	848.8	-25.83	-47.29	0	1.38	22.84	38.45	Pass
	V	824.2	-34.89	-46.91	0	1.06	13.08	38.45	Pass
	V	836.6	-34.38	-46.82	0	1.24	13.68	38.45	Pass
	V	848.8	-34.58	-47.04	0	1.38	13.84	38.45	Pass
WCDMA Band V	H	826.4	-29.29	-47.17	0	1.13	19.01	38.45	Pass
	H	836.6	-30.18	-47.13	0	1.24	18.19	38.45	Pass
	H	846.6	-30.02	-47.21	0	1.35	18.54	38.45	Pass
	V	826.4	-34.29	-46.87	0	1.13	13.71	38.45	Pass
	V	836.6	-34.62	-46.82	0	1.24	13.44	38.45	Pass
	V	846.6	-35.11	-46.97	0	1.35	13.21	38.45	Pass
CDMA BC0 1xRTT	H	824.7	-29.59	-47.10	0	1.07	18.58	38.45	Pass
	H	836.52	-29.45	-47.13	0	1.23	18.91	38.45	Pass
	H	848.31	-31.03	-47.28	0	1.38	17.63	38.45	Pass
	V	824.7	-34.20	-46.90	0	1.07	13.77	38.45	Pass
	V	836.52	-34.13	-46.82	0	1.23	13.92	38.45	Pass
	V	848.31	-35.54	-47.03	0	1.38	12.87	38.45	Pass
CDMA BC0 EVDO	H	824.7	-29.65	-47.10	0	1.07	18.52	38.45	Pass
	H	836.52	-30.01	-47.13	0	1.23	18.35	38.45	Pass
	H	848.31	-31.66	-47.28	0	1.38	17.00	38.45	Pass
	V	824.7	-34.46	-46.90	0	1.07	13.51	38.45	Pass
	V	836.52	-35.14	-46.82	0	1.23	12.91	38.45	Pass
	V	848.31	-36.33	-47.03	0	1.38	12.08	38.45	Pass



LTE Band 5								
bandwidth	Polarization	Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	Conclusion
1.4 MHz (QPSK)	H	824.7	-32.38	-47.61	0	1.13	16.36	Pass
	H	836.5	-31.15	-47.75	0	1.24	17.84	Pass
	H	848.3	-31.92	-48.23	0	1.38	17.69	Pass
	V	824.7	-40.44	-47.29	0	1.13	7.98	Pass
	V	836.5	-40.97	-47.15	0	1.24	7.42	Pass
	V	848.3	-41.61	-47.48	0	1.38	7.25	Pass
1.4 MHz (16QAM)	H	824.7	-34.51	-47.61	0	1.13	14.23	Pass
	H	836.5	-33.41	-47.75	0	1.24	15.58	Pass
	H	848.3	-34.26	-48.23	0	1.38	15.35	Pass
	V	824.7	-42.85	-47.29	0	1.13	5.57	Pass
	V	836.5	-43.55	-47.15	0	1.24	4.84	Pass
	V	848.3	-44.30	-47.48	0	1.38	4.56	Pass
3 MHz (QPSK)	H	825.5	-32.07	-47.59	0	1.06	16.59	Pass
	H	836.5	-31.93	-47.75	0	1.24	17.06	Pass
	H	847.5	-34.42	-48.18	0	1.38	15.14	Pass
	V	825.5	-41.39	-47.26	0	1.06	6.94	Pass
	V	836.5	-40.15	-47.15	0	1.24	8.24	Pass
	V	847.5	-41.41	-47.44	0	1.38	7.42	Pass
3 MHz (16QAM)	H	825.5	-34.20	-47.59	0	1.06	14.46	Pass
	H	836.5	-34.19	-47.75	0	1.24	14.80	Pass
	H	847.5	-36.76	-48.18	0	1.38	12.80	Pass
	V	825.5	-43.80	-47.26	0	1.06	4.53	Pass
	V	836.5	-42.73	-47.15	0	1.24	5.66	Pass
	V	847.5	-44.10	-47.44	0	1.38	4.73	Pass
5 MHz (QPSK)	H	826.5	-32.70	-47.60	0	1.13	16.03	Pass
	H	836.5	-31.04	-47.75	0	1.24	17.95	Pass
	H	846.5	-34.08	-48.12	0	1.36	15.40	Pass
	V	826.5	-43.69	-47.24	0	1.13	4.68	Pass
	V	836.5	-40.45	-47.15	0	1.24	7.94	Pass
	V	846.5	-44.18	-47.40	0	1.36	4.58	Pass
5 MHz (16QAM)	H	826.5	-34.83	-47.60	0	1.13	13.90	Pass
	H	836.5	-33.30	-47.75	0	1.24	15.69	Pass
	H	846.5	-36.42	-48.12	0	1.36	13.06	Pass
	V	826.5	-46.10	-47.24	0	1.13	2.27	Pass
	V	836.5	-43.03	-47.15	0	1.24	5.36	Pass
	V	846.5	-46.87	-47.40	0	1.36	1.89	Pass
10 MHz (QPSK)	H	829	-30.81	-47.61	0	1.13	17.93	Pass
	H	836.5	-31.10	-47.75	0	1.24	17.89	Pass
	H	844	-30.95	-48.01	0	1.33	18.38	Pass



LTE Band 5								
bandwidth	Polarization	Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	Conclusion
	V	829	-40.69	-47.19	0	1.13	7.63	Pass
	V	836.5	-41.49	-47.15	0	1.24	6.90	Pass
	V	844	-41.06	-47.29	0	1.33	7.55	Pass
10 MHz (16QAM)	H	829	-32.94	-47.61	0	1.13	15.80	Pass
	H	836.5	-33.36	-47.75	0	1.24	15.63	Pass
	H	844	-33.29	-48.01	0	1.33	16.04	Pass
	V	829	-43.10	-47.19	0	1.13	5.22	Pass
	V	836.5	-44.07	-47.15	0	1.24	4.32	Pass
	V	844	-43.75	-47.29	0	1.33	4.86	Pass

LTE Band 26								
bandwidth	Polarization	Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	Conclusion
1.4 MHz (QPSK)	H	824.7	-30.07	-47.61	0.00	1.06	18.60	Pass
	H	836.5	-30.35	-47.75	0.00	1.24	18.64	Pass
	H	848.3	-30.95	-48.23	0.00	1.38	18.66	Pass
	V	824.7	-34.67	-47.29	0.00	1.06	13.69	Pass
	V	836.5	-34.73	-47.15	0.00	1.24	13.66	Pass
	V	848.3	-35.17	-47.48	0.00	1.38	13.69	Pass
1.4 MHz (16QAM)	H	824.7	-30.67	-47.61	0.00	1.06	18.00	Pass
	H	836.5	-31.05	-47.75	0.00	1.24	17.94	Pass
	H	848.3	-31.60	-48.23	0.00	1.38	18.01	Pass
	V	824.7	-34.93	-47.29	0.00	1.06	13.43	Pass
	V	836.5	-34.85	-47.15	0.00	1.24	13.54	Pass
	V	848.3	-35.64	-47.48	0.00	1.38	13.22	Pass
3 MHz (QPSK)	H	825.5	-29.46	-47.59	0.00	1.06	19.20	Pass
	H	836.5	-29.69	-47.75	0.00	1.24	19.30	Pass
	H	847.5	-30.33	-48.18	0.00	1.38	19.23	Pass
	V	825.5	-34.16	-47.26	0.00	1.06	14.17	Pass
	V	836.5	-34.07	-47.15	0.00	1.24	14.32	Pass
	V	847.5	-35.00	-47.44	0.00	1.38	13.83	Pass
3 MHz (16QAM)	H	825.5	-30.89	-47.59	0.00	1.06	17.77	Pass
	H	836.5	-31.36	-47.75	0.00	1.24	17.63	Pass
	H	847.5	-32.07	-48.18	0.00	1.38	17.49	Pass
	V	825.5	-35.17	-47.26	0.00	1.06	13.16	Pass
	V	836.5	-35.06	-47.15	0.00	1.24	13.33	Pass
	V	847.5	-35.64	-47.44	0.00	1.38	13.19	Pass
5 MHz (QPSK)	H	826.5	-30.24	-47.60	0.00	1.13	18.49	Pass
	H	836.5	-30.61	-47.75	0.00	1.24	18.38	Pass



LTE Band 26								
bandwidth	Polarization	Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	Conclusion
	H	846.5	-31.19	-48.12	0.00	1.38	18.32	Pass
	V	826.5	-34.63	-47.24	0.00	1.13	13.74	Pass
	V	836.5	-34.22	-47.15	0.00	1.24	14.17	Pass
	V	846.5	-34.90	-47.40	0.00	1.38	13.88	Pass
5 MHz (16QAM)	H	826.5	-30.76	-47.60	0.00	1.13	17.97	Pass
	H	836.5	-31.08	-47.75	0.00	1.24	17.91	Pass
	H	846.5	-31.65	-48.12	0.00	1.38	17.86	Pass
	V	826.5	-35.04	-47.24	0.00	1.13	13.33	Pass
	V	836.5	-34.61	-47.15	0.00	1.24	13.78	Pass
	V	846.5	-35.07	-47.40	0.00	1.38	13.71	Pass
10 MHz (QPSK)	H	829	-31.83	-47.61	0.00	1.13	16.91	Pass
	H	836.5	-32.00	-47.75	0.00	1.24	16.99	Pass
	H	844	-32.36	-48.01	0.00	1.33	16.97	Pass
	V	829	-35.10	-47.19	0.00	1.13	13.22	Pass
	V	836.5	-35.06	-47.15	0.00	1.24	13.33	Pass
	V	844	-35.27	-47.29	0.00	1.33	13.34	Pass
10 MHz (16QAM)	H	829	-31.88	-47.61	0.00	1.13	16.86	Pass
	H	836.5	-32.12	-47.75	0.00	1.24	16.87	Pass
	H	844	-32.40	-48.01	0.00	1.33	16.93	Pass
	V	829	-35.31	-47.19	0.00	1.13	13.01	Pass
	V	836.5	-35.37	-47.15	0.00	1.24	13.02	Pass
	V	844	-35.53	-47.29	0.00	1.33	13.08	Pass
15 MHz (QPSK)	H	831.5	-31.95	-47.64	0.00	1.18	16.87	Pass
	H	836.5	-31.99	-47.75	0.00	1.24	17.00	Pass
	H	841.5	-32.22	-47.93	0.00	1.28	17.00	Pass
	V	831.5	-35.33	-47.15	0.00	1.18	13.00	Pass
	V	836.5	-35.40	-47.15	0.00	1.24	12.99	Pass
	V	841.5	-35.44	-47.23	0.00	1.28	13.08	Pass
15 MHz (16QAM)	H	831.5	-32.00	-47.64	0.00	1.18	16.82	Pass
	H	836.5	-32.19	-47.75	0.00	1.24	16.80	Pass
	H	841.5	-32.58	-47.93	0.00	1.28	16.64	Pass
	V	831.5	-35.66	-47.15	0.00	1.18	12.67	Pass
	V	836.5	-36.05	-47.15	0.00	1.24	12.34	Pass
	V	841.5	-35.88	-47.23	0.00	1.28	12.64	Pass

5.3. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

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 3kHz, VBW is set to 10kHz 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 51kHz for CDMA BC0,

RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 5/26 (1.4MHz),

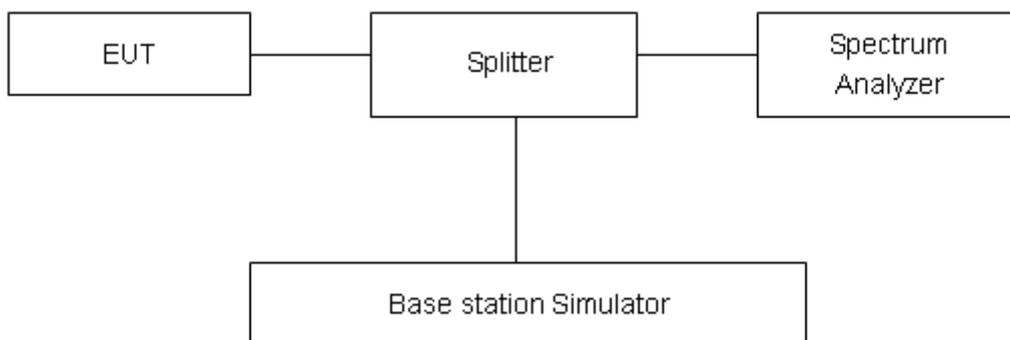
RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 5 (3MHz/5MHz/10MHz),

RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 26 (3MHz/5MHz),

RBW is set to 300 kHz, VBW is set to 1 MHz for LTE Band 26 (10MHz/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 (GSM)	128	824.2	0.2467428	0.312465
	190	836.6	0.2476145	0.308020
	251	848.8	0.2501658	0.314565
GPRS 850 (GMSK)	128	824.2	0.2456686	0.315227
	190	836.6	0.2459911	0.311465
	251	848.8	0.2483689	0.314067
EGPRS 850 (8-PSK)	128	824.2	0.2467552	0.314957
	190	836.6	0.2393900	0.309905
	251	848.8	0.2444453	0.313637

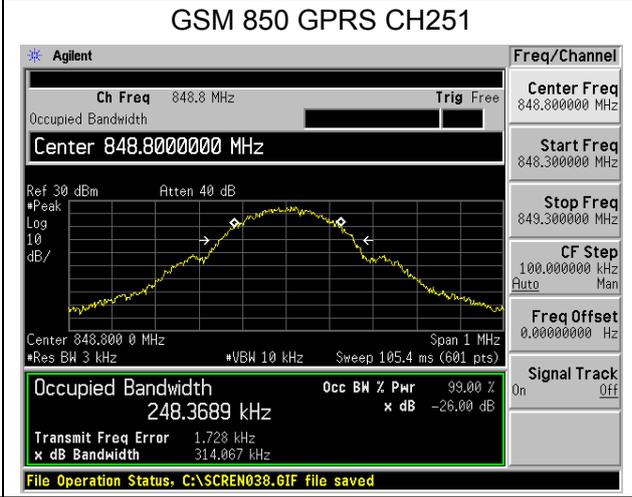
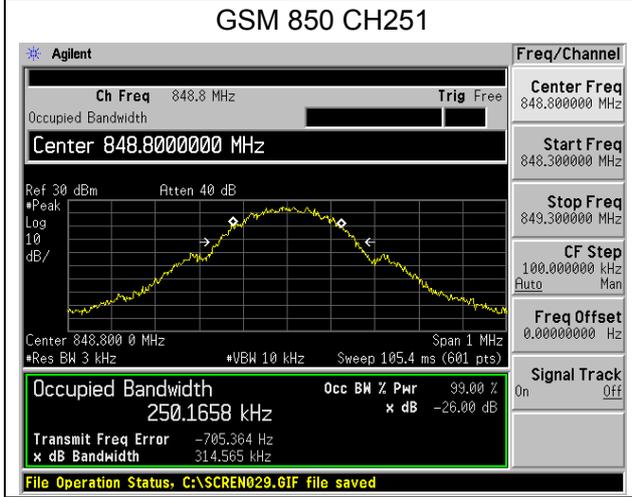
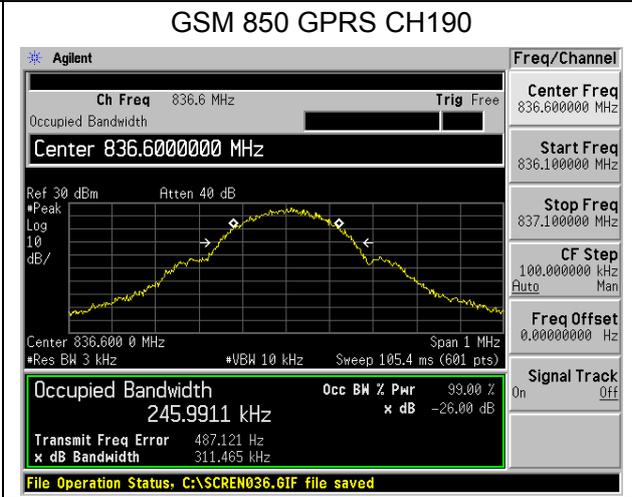
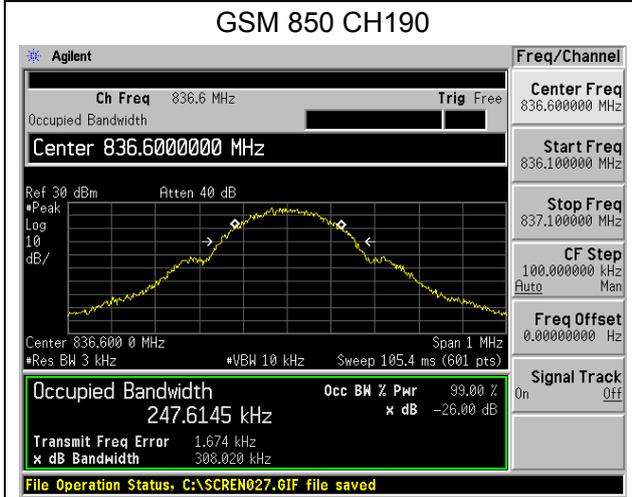
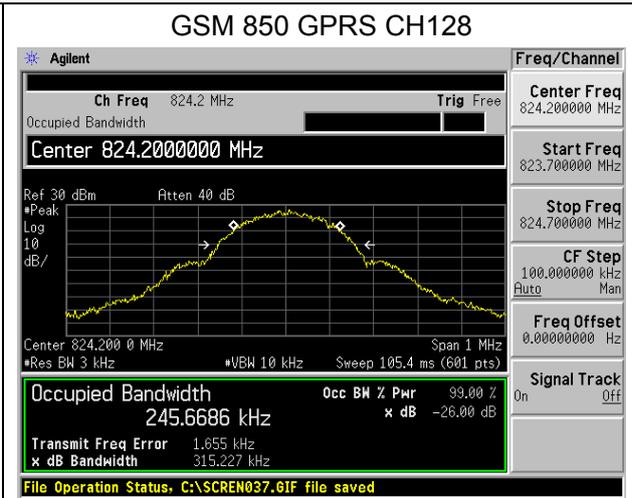
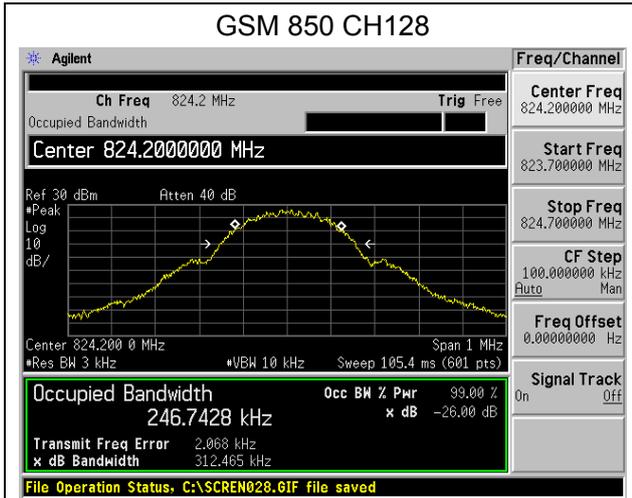
Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band V (RMC)	4132	826.4	4.1592	4.635
	4183	836.6	4.1610	4.633
	4233	846.6	4.1634	4.628
CDMA BC0 EVDO	1013	824.7	1.2686	1.412
	384	836.52	1.2665	1.418
	777	848.31	1.2713	1.418

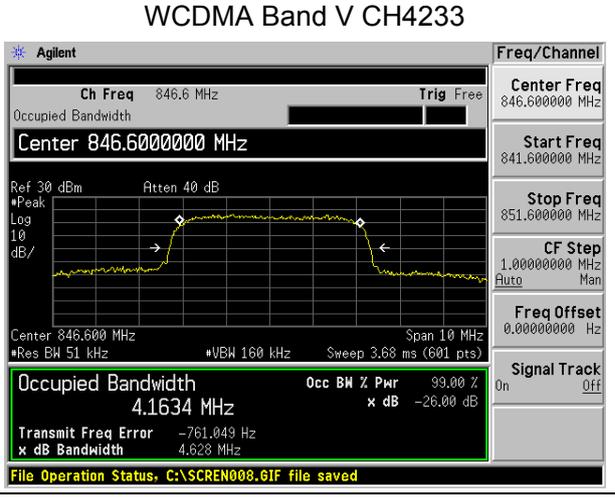
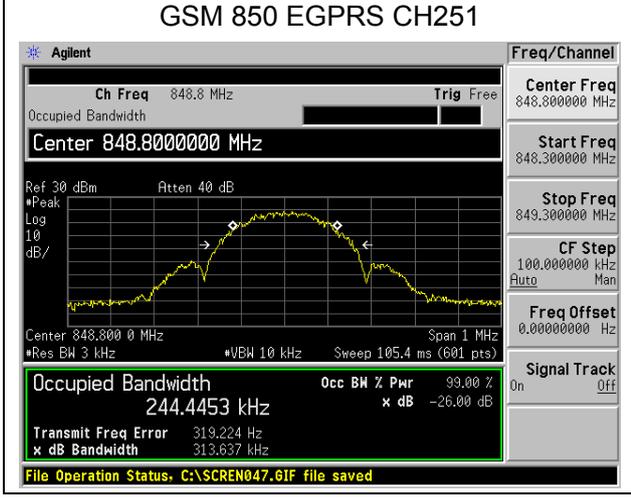
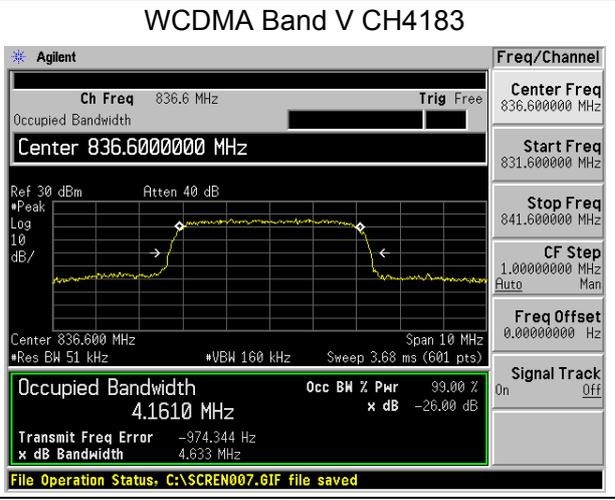
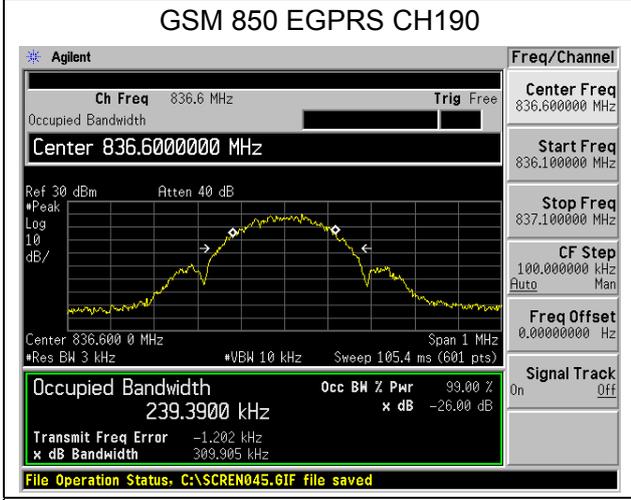
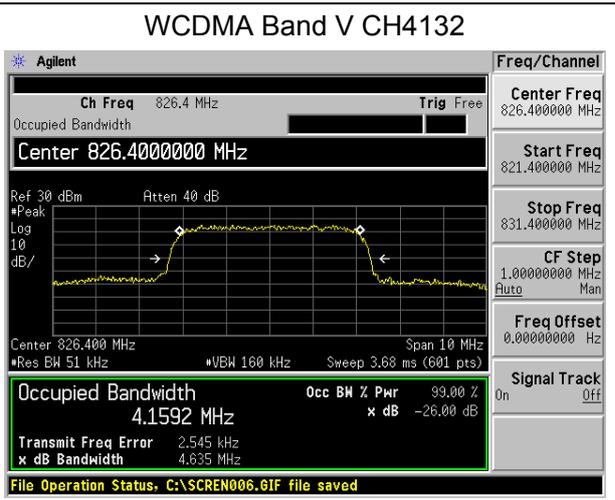


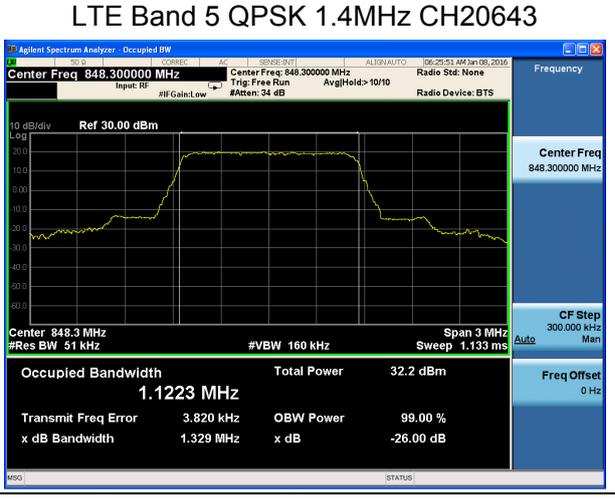
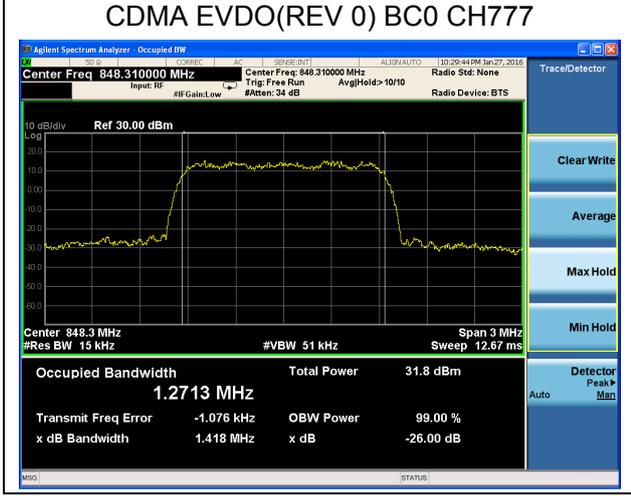
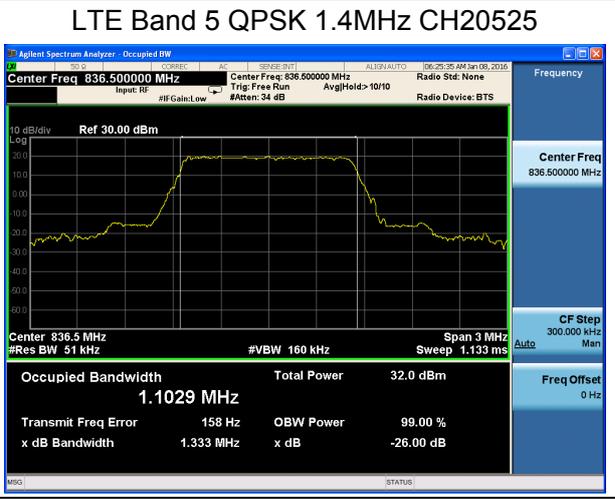
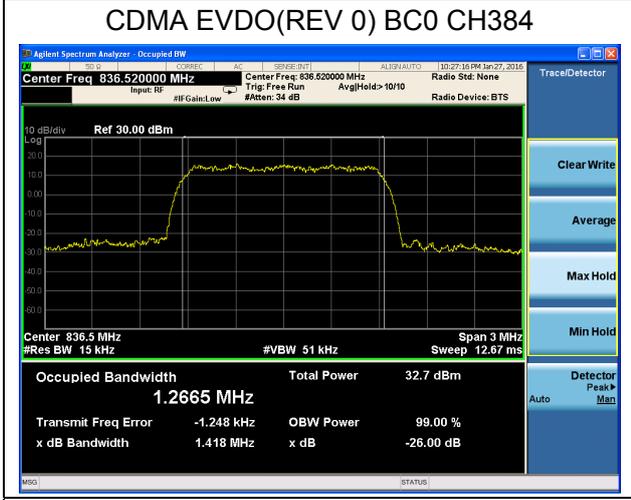
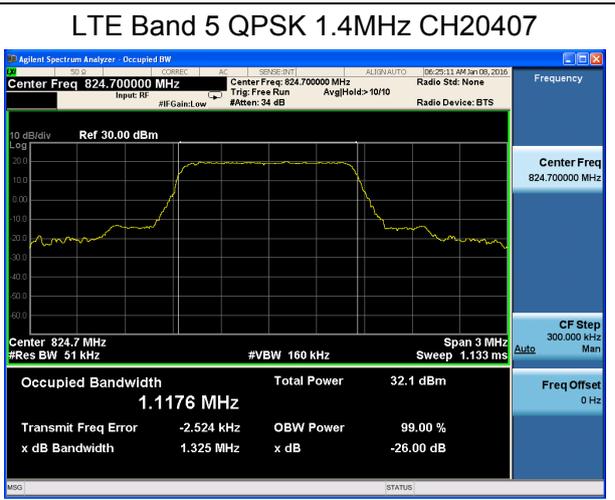
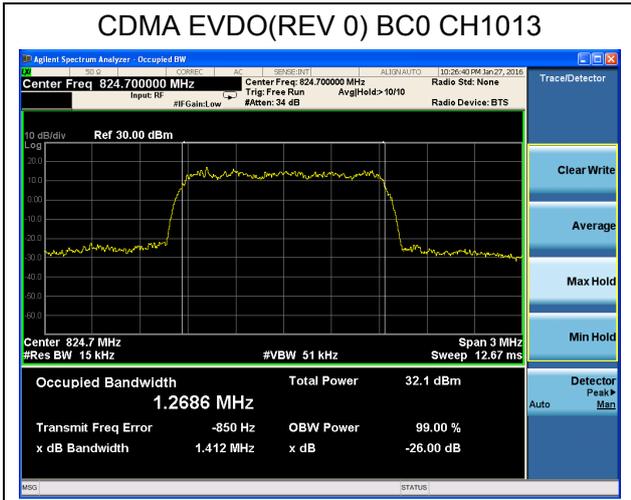
LTE Band 5						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100 %	QPSK	1.4	20407	824.7	1.1176	1.325
			20525	836.5	1.1029	1.333
			20643	848.3	1.1223	1.329
		3	20415	825.5	2.7465	3.063
			20525	836.5	2.7503	3.070
			20635	847.5	2.7547	3.053
		5	20425	826.5	4.5167	5.043
			20525	836.5	4.5317	5.029
			20625	846.5	4.5193	5.007
		10	20450	829	8.9642	9.746
			20525	836.5	8.9678	9.714
			20600	844	8.9555	9.776
	16QAM	1.4	20407	824.7	1.1230	1.336
			20525	836.5	1.1116	1.307
			20643	848.3	1.1087	1.340
		3	20415	825.5	2.7384	3.078
			20525	836.5	2.7398	3.023
			20635	847.5	2.7328	3.052
		5	20425	826.5	4.5390	5.039
			20525	836.5	4.5158	4.954
			20625	846.5	4.5444	5.040
		10	20450	829	8.9713	9.734
			20525	836.5	8.9542	9.686
			20600	844	8.9624	9.639

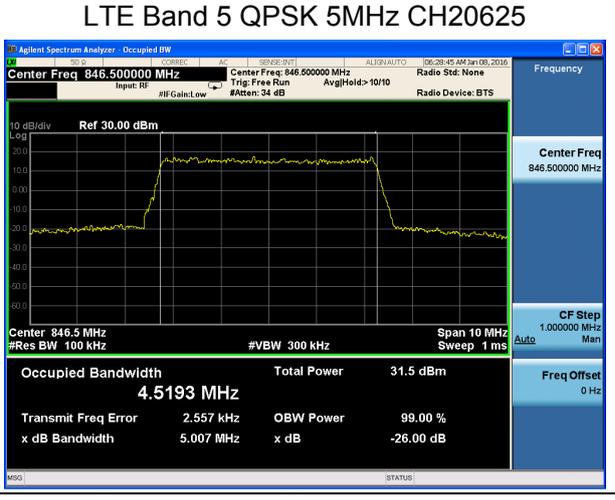
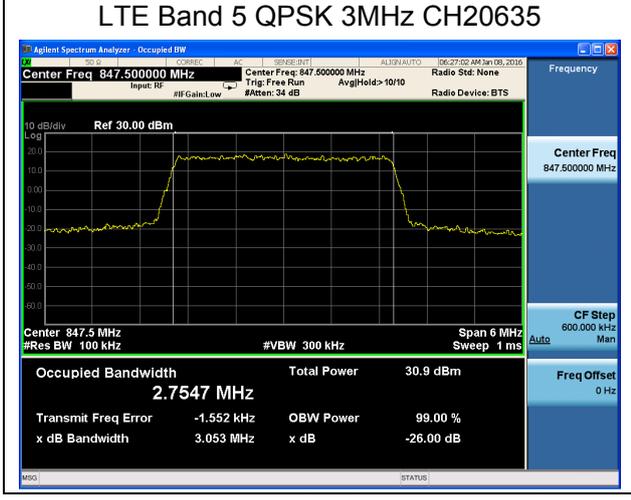
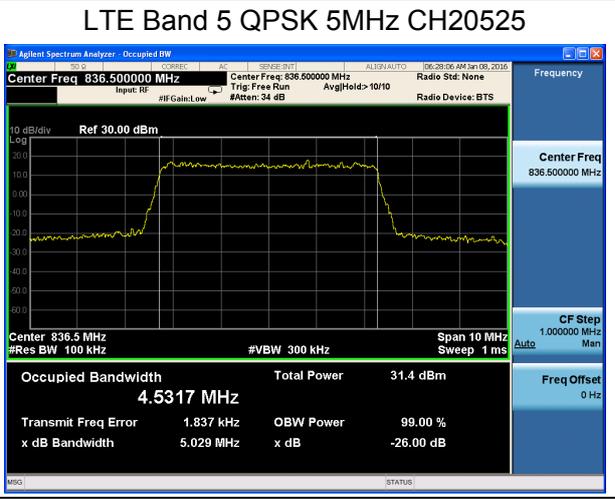
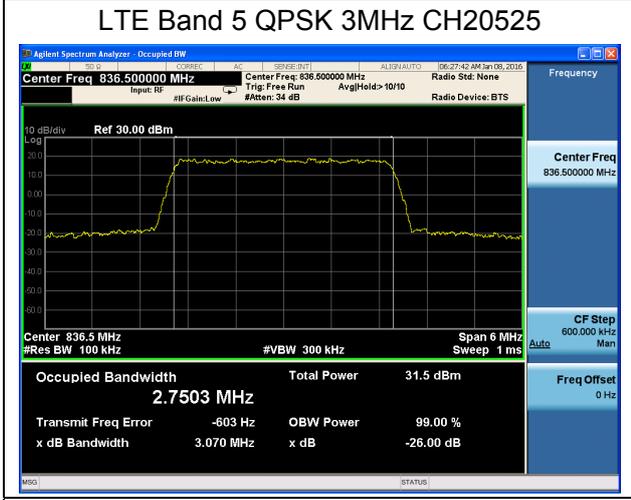
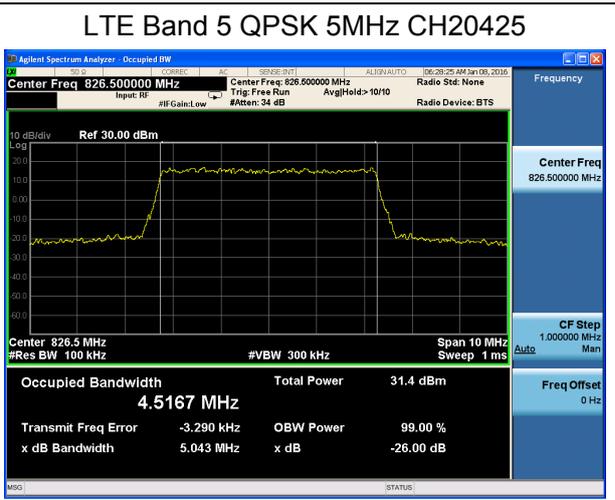
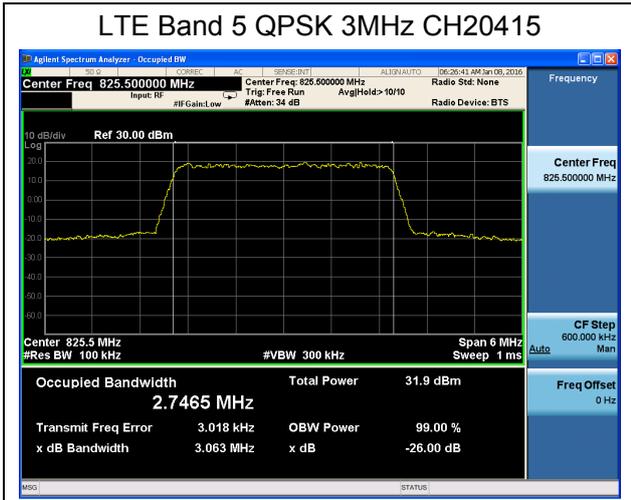


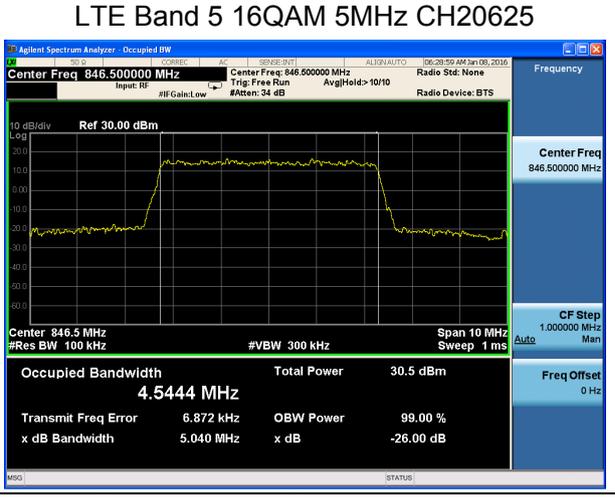
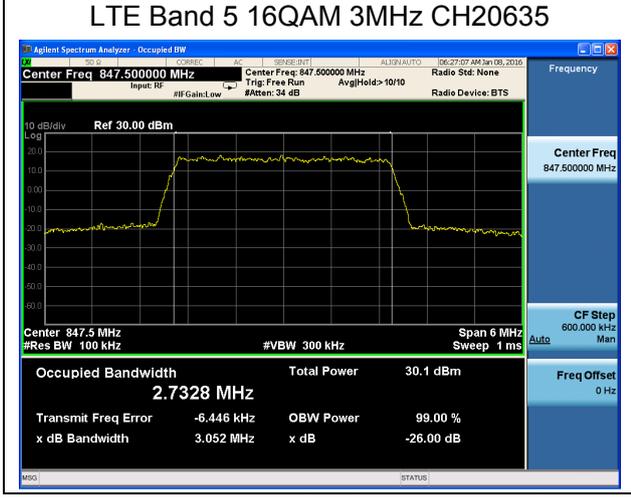
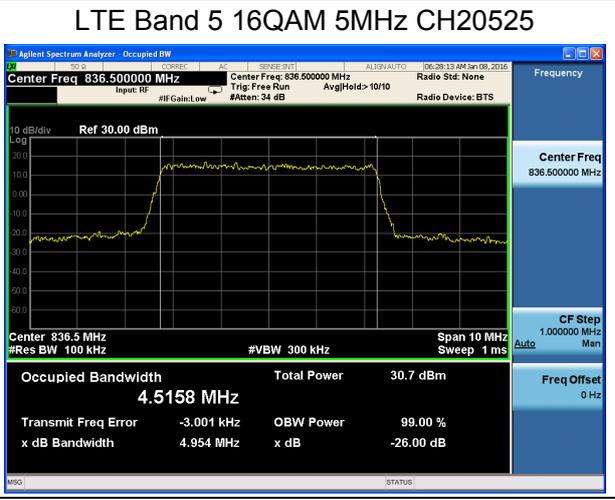
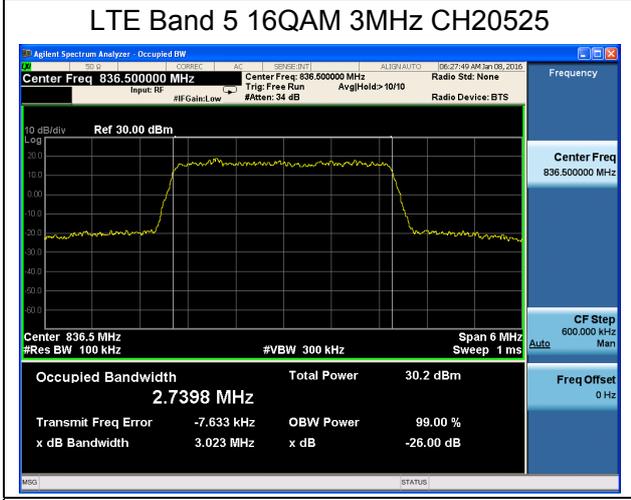
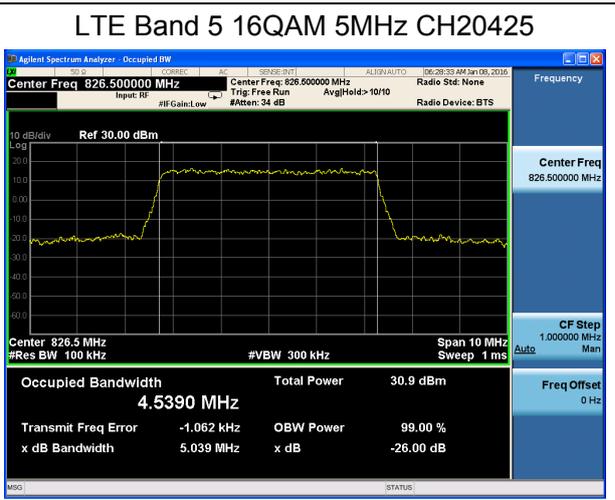
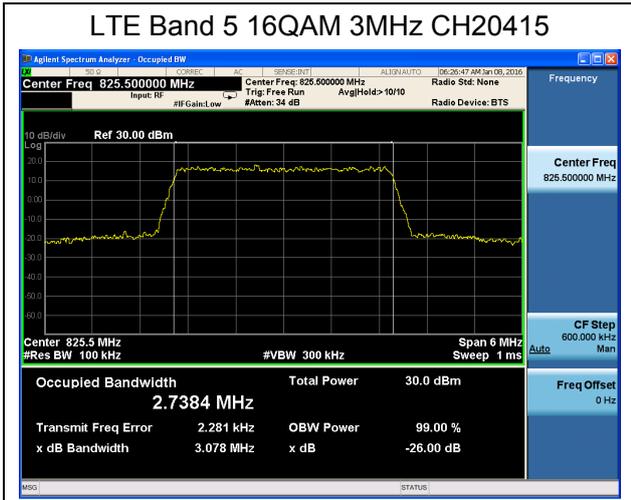
LTE Band 26						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100 %	QPSK	1.4	26797	824.7	1.1236	1.341
			26915	836.5	1.1284	1.339
			27033	848.3	1.241	1.327
		3	26805	825.5	2.7368	3.057
			26915	836.5	2.7409	3.067
			27025	847.5	2.7438	3.054
		5	26815	826.5	4.5181	5.015
			26915	836.5	4.5089	4.969
			27015	846.5	4.5108	4.978
		10	26840	829	9.0323	10.05
			26915	836.5	9.0578	10.08
			26990	844	9.0732	10.12
	15	26865	831.5	13.486	14.75	
		26915	836.5	13.434	14.64	
		26965	841.5	13.456	14.86	
	16QAM	1.4	26797	824.7	1.1198	1.328
			26915	836.5	1.1165	1.349
			27033	848.3	1.1172	1.330
		3	26805	825.5	2.7381	3.050
			26915	836.5	2.7364	3.053
			27025	847.5	2.7436	3.059
		5	26815	826.5	4.5381	5.007
			26915	836.5	4.5127	5.029
			27015	846.5	4.5144	5.003
10		26840	829	9.0475	10.09	
		26915	836.5	9.0318	9.978	
		26990	844	9.0446	10.09	
15	26865	831.5	13.505	14.67		
	26915	836.5	13.496	14.68		
	26965	841.5	13.476	14.80		

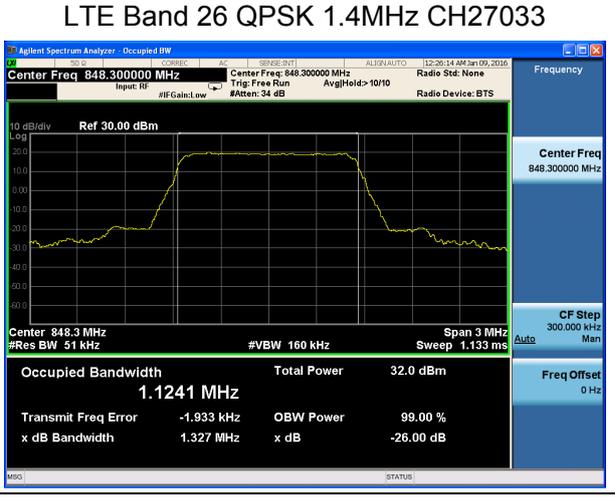
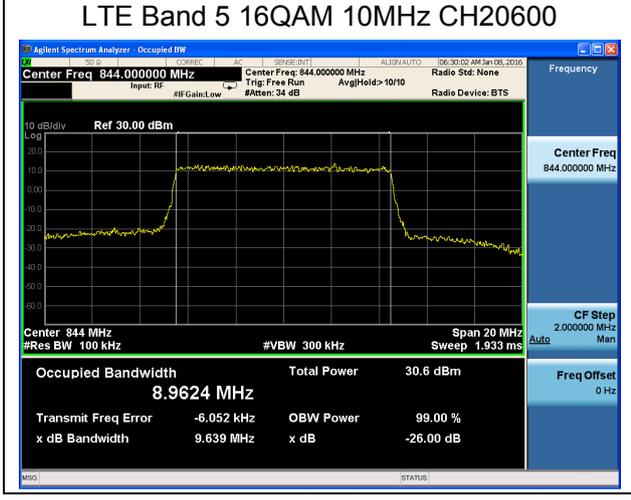
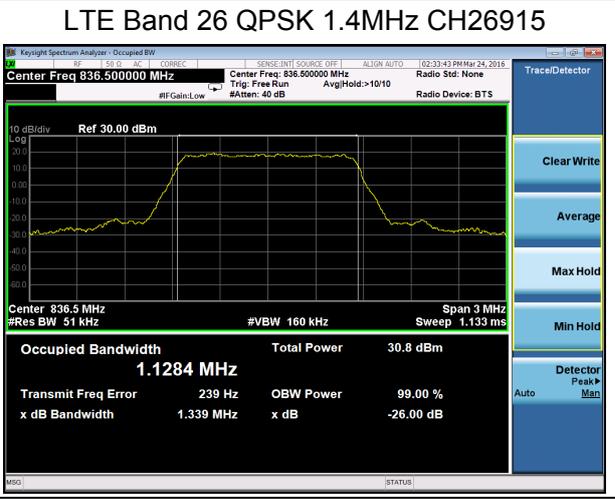
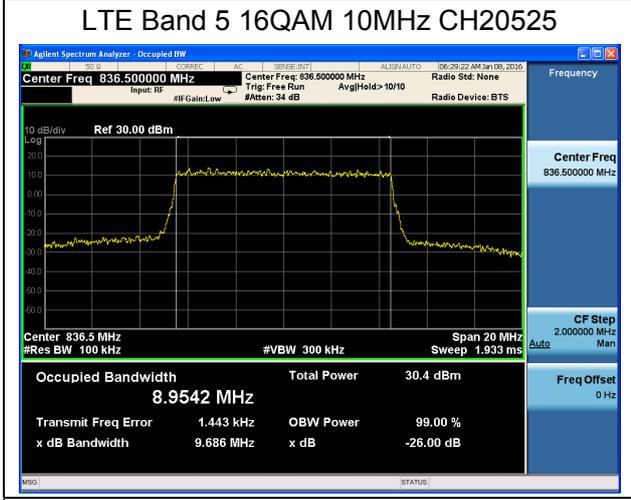
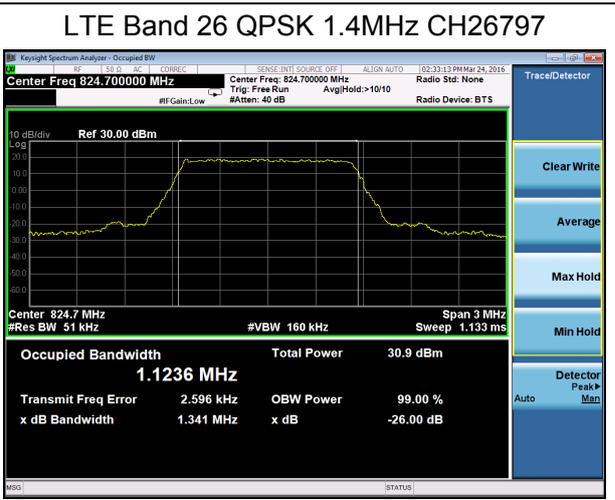
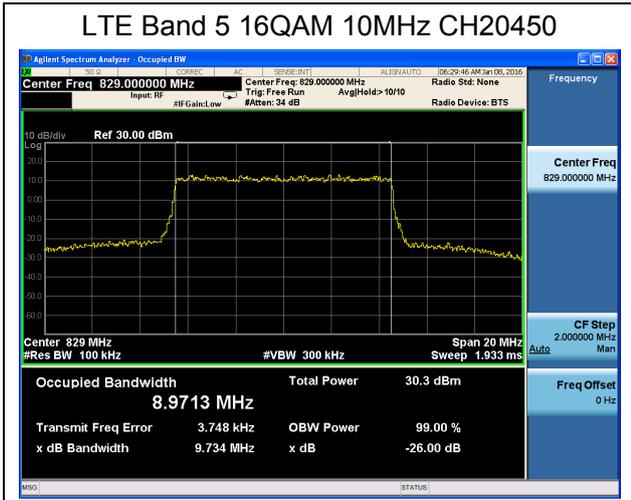


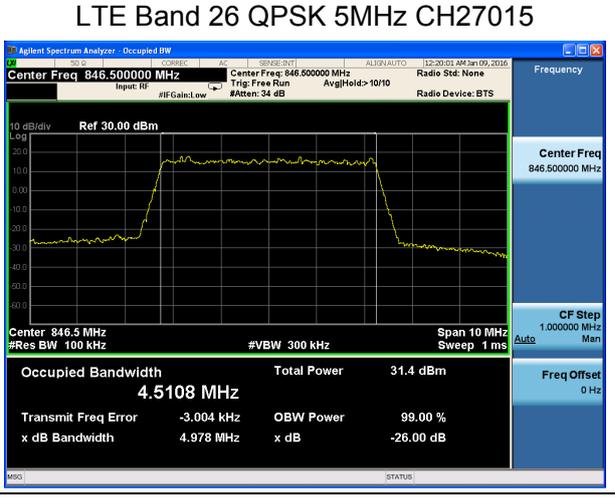
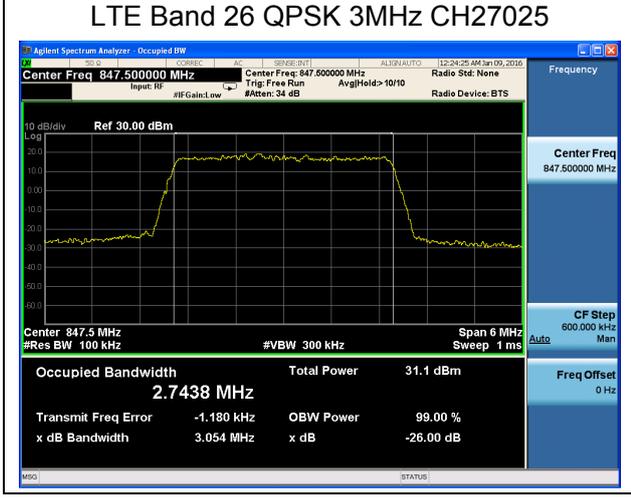
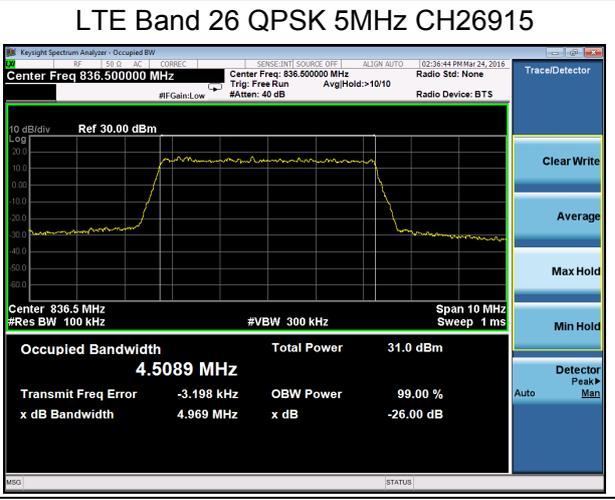
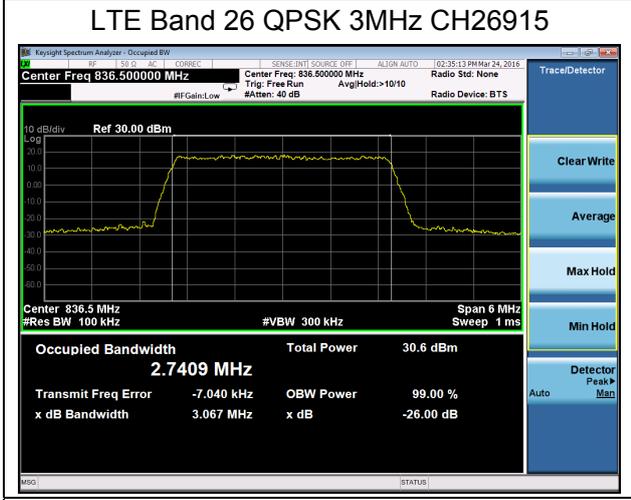
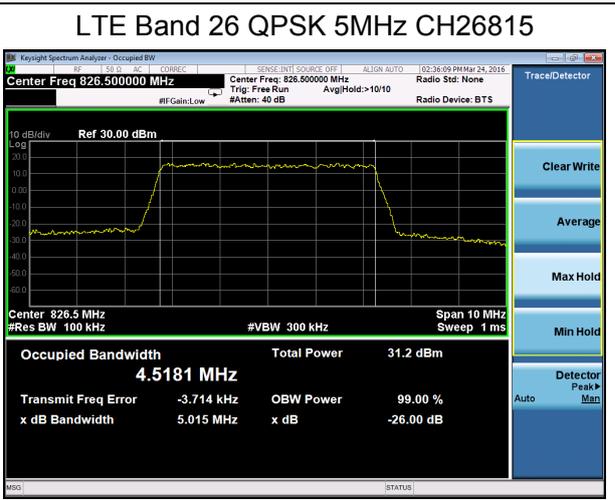
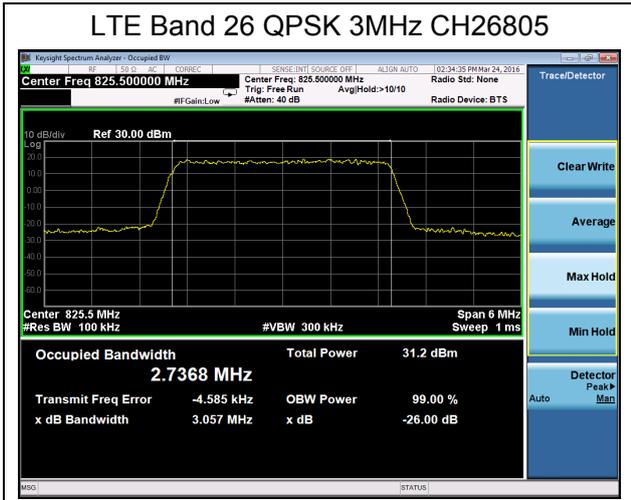


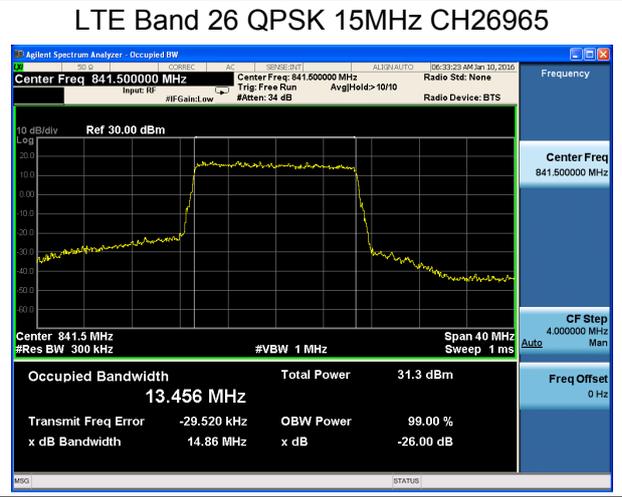
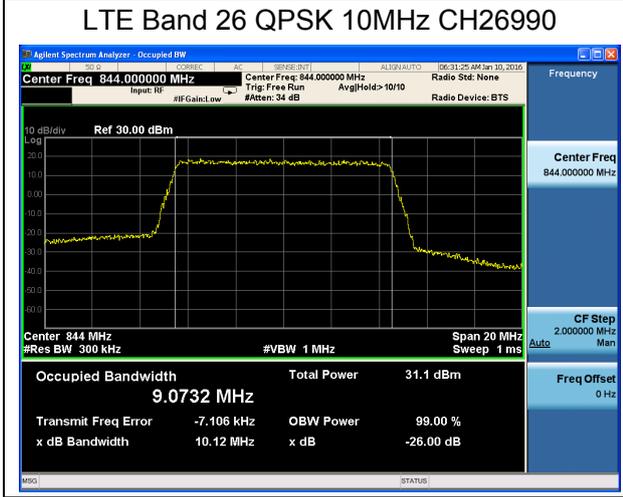
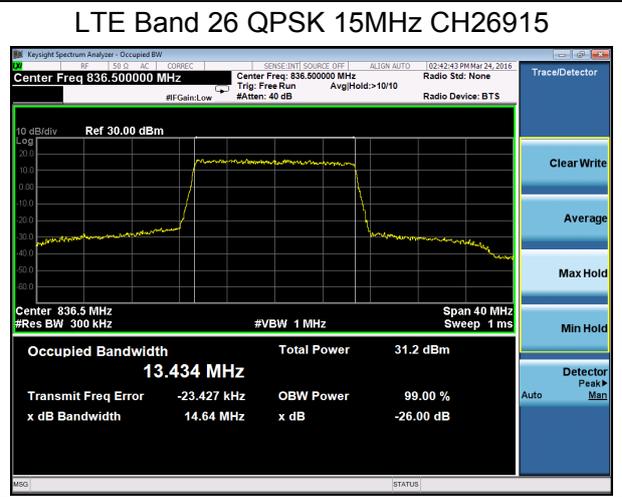
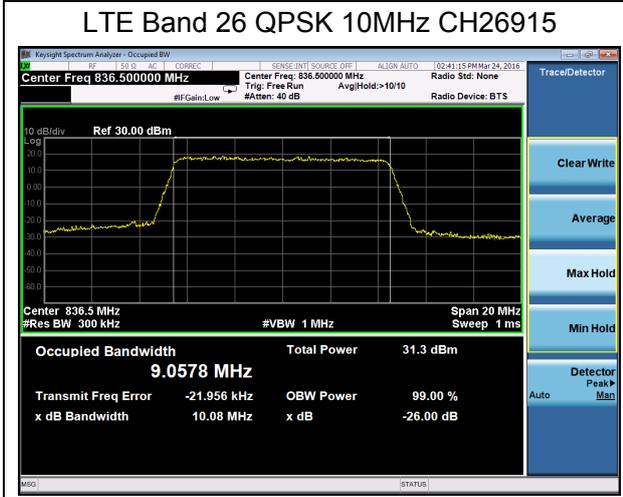
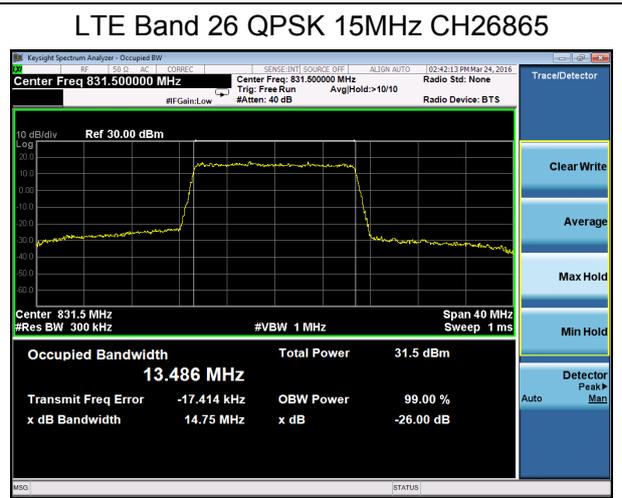
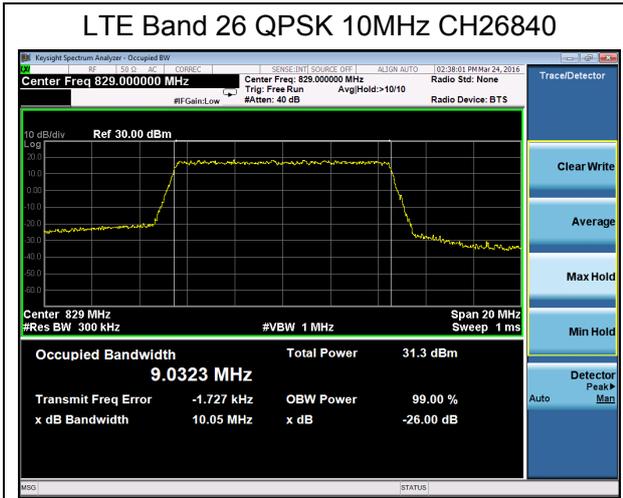


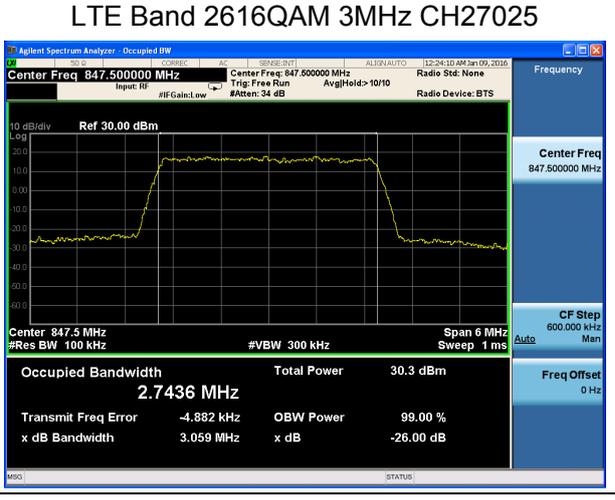
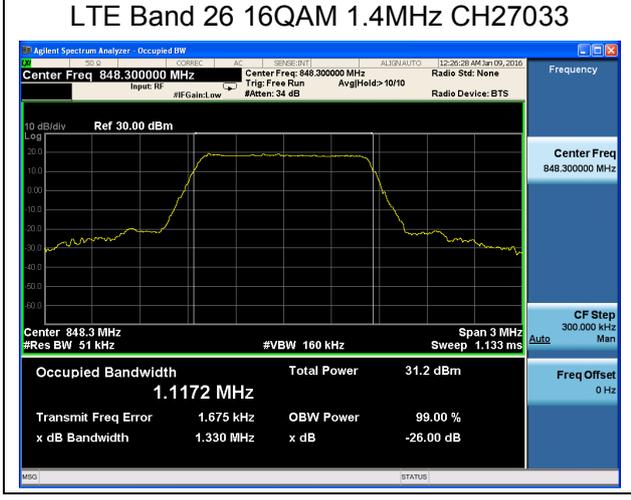
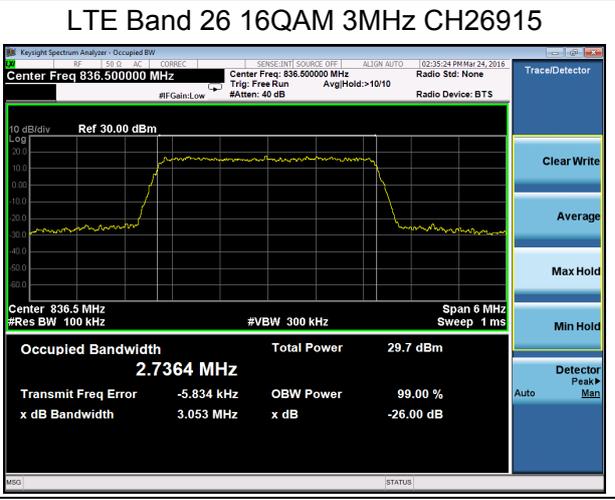
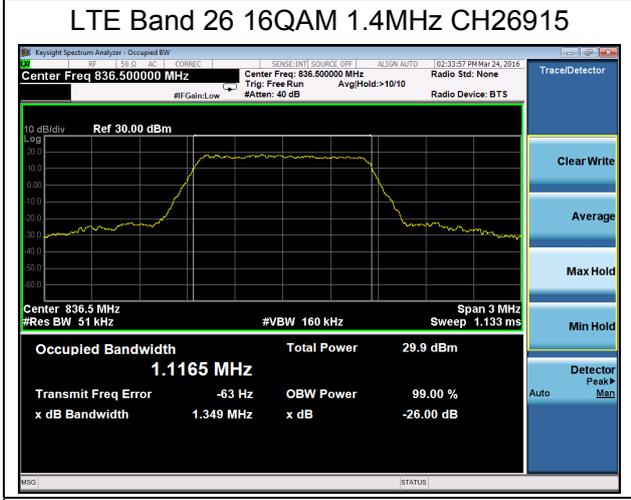
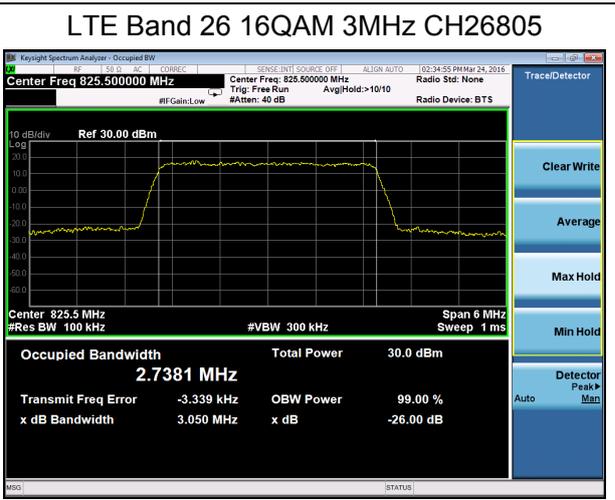
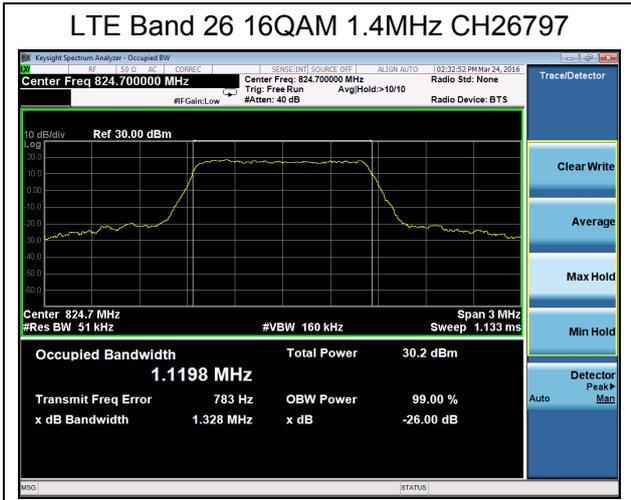


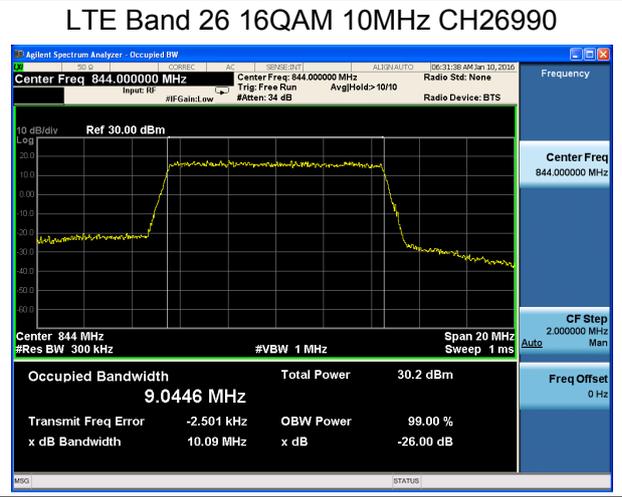
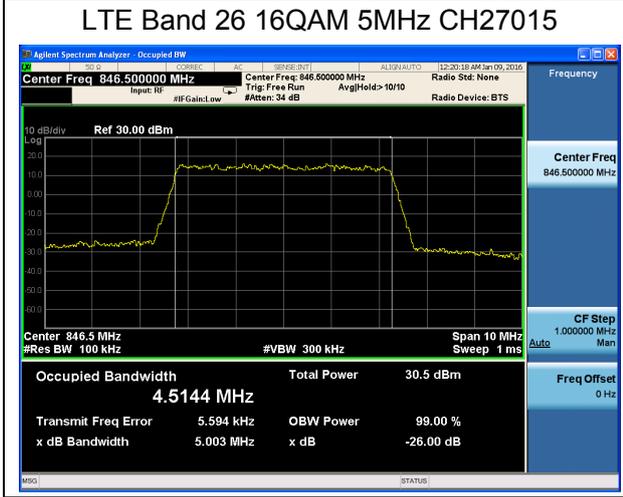
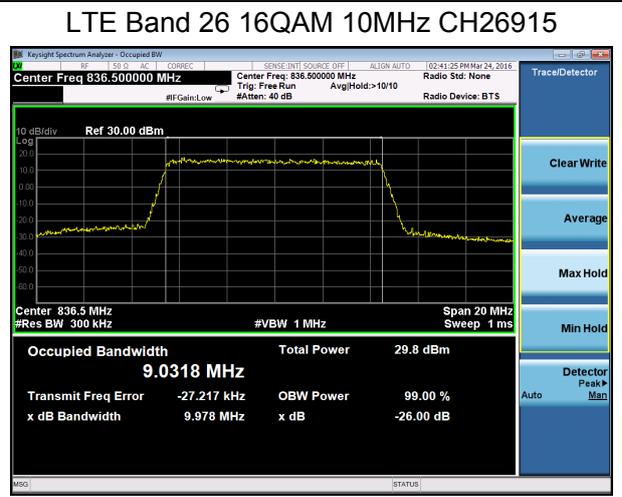
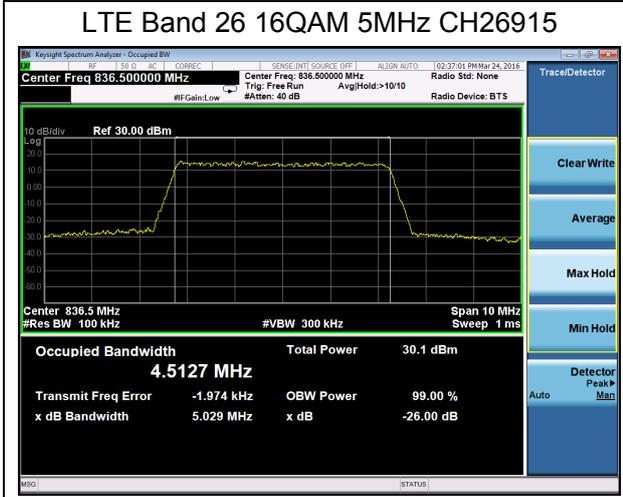
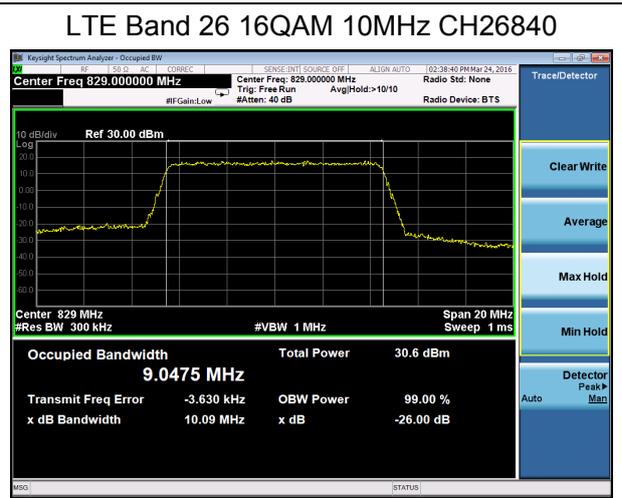
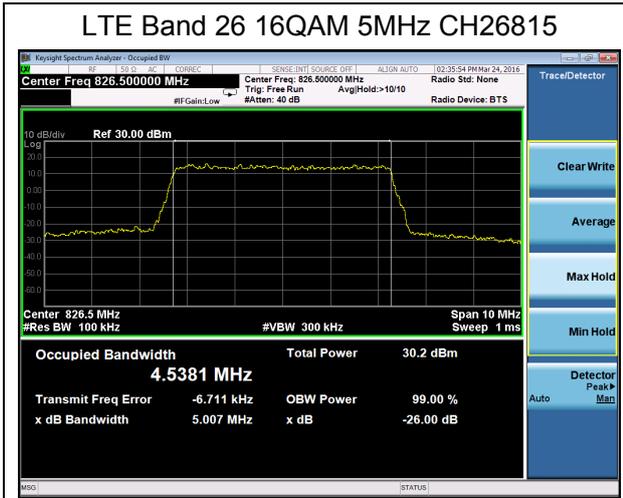


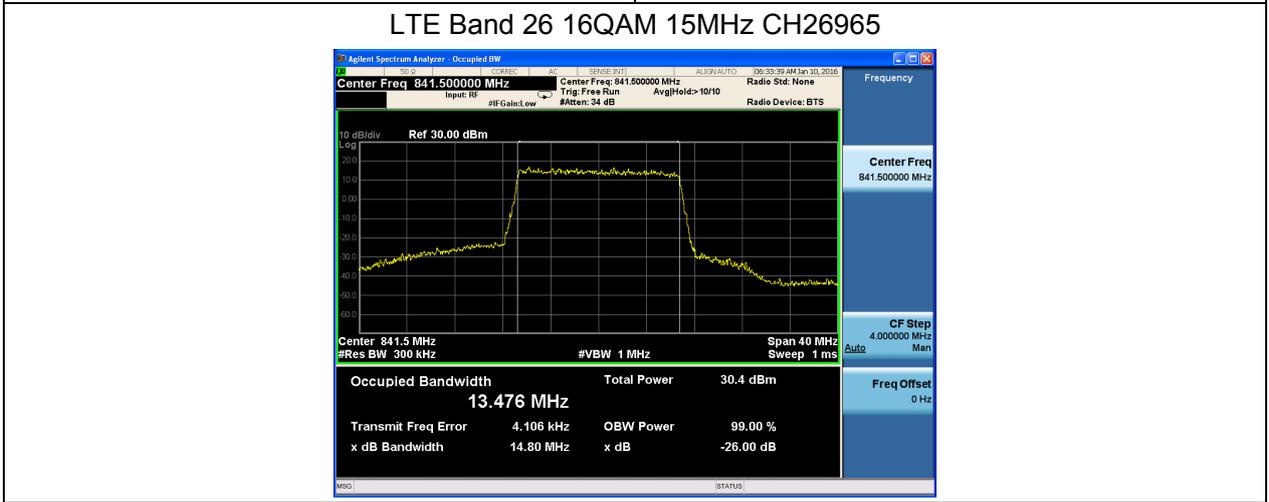
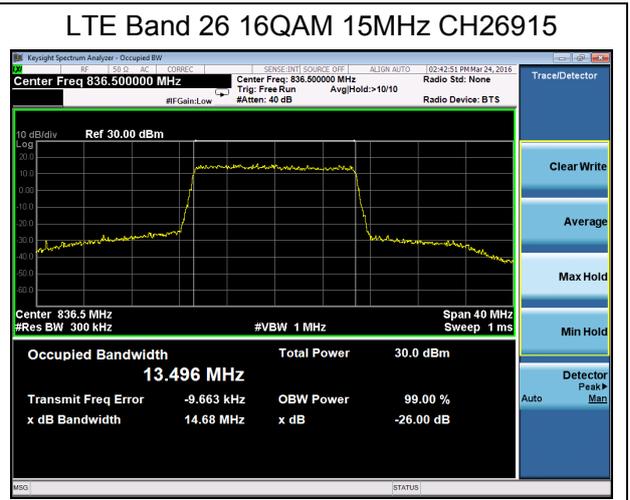
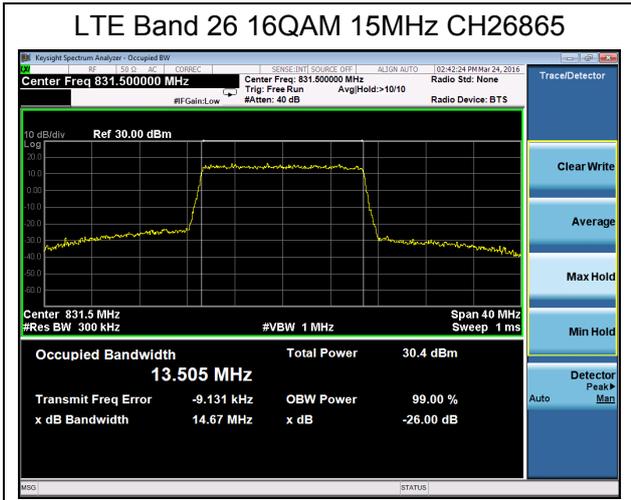












5.4. Band Edge Compliance

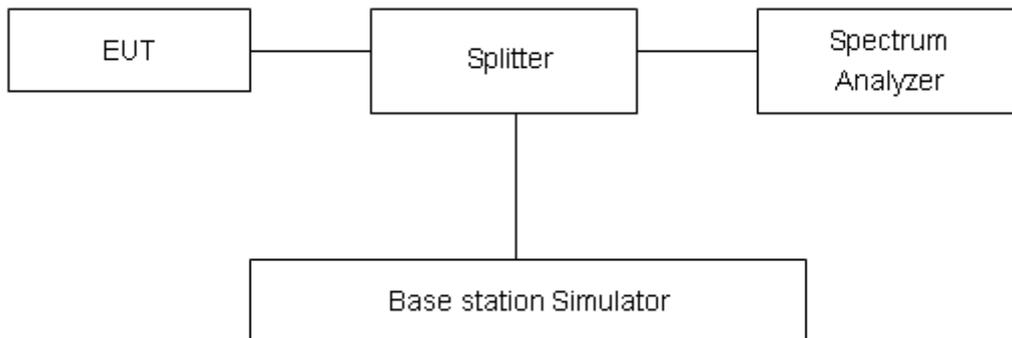
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

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 3kHz,VBW is set to 10kHz 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 51kHz for CDMA BC0, RBW is set to 15 kHz, VBW is set to 51 kHz for LTE Band 5/26 (1.4MHz), RBW is set to 30 kHz, VBW is set to 100 kHz for LTE Band 5/26 (3MHz), RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 5/26 (5MHz), RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 5/26 (10MHz), RBW is set to 150 kHz, VBW is set to 510kHz 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
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Measurement Uncertainty

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



Test Result:

Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit (dBm)	Conclusion
GSM 850 (GSM)	824.0	-32.038	-13	PASS
	849.0	-32.365	-13	PASS
GPRS 850 (GMSK)	824.0	-27.969	-13	PASS
	849.0	-27.849	-13	PASS
EGPRS 850 (8-PSK)	824.0	-28.149	-13	PASS
	849.0	-29.099	-13	PASS
WCDMA Band V RMC	824.0	-29.318	-13	PASS
	849.0	-31.154	-13	PASS
CDMA EVDO BC0	824.7	-15.416	-13	PASS
	848.31	-13.395	-13	PASS

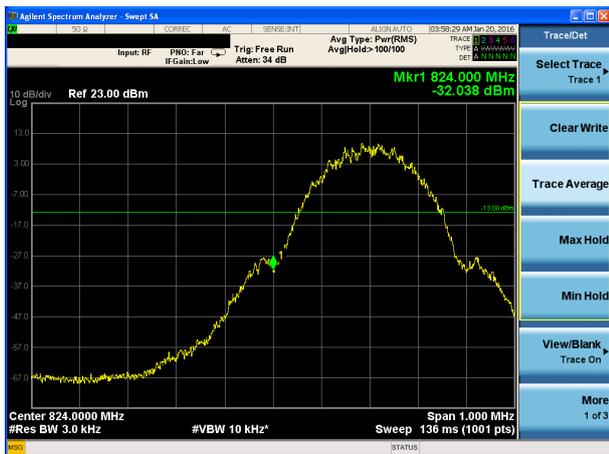
LTE Band 5						
Modulation	Bandwidth	Channel	RB	Reference value (dBm)	Limit (dBm)	Conclusion
QPSK	1.4MHz	20407	1	-23.898	-13	PASS
			100%	-29.644	-13	PASS
		20643	1	-25.404	-13	PASS
			100%	-30.410	-13	PASS
	3MHz	20415	1	-21.251	-13	PASS
			100%	-25.735	-13	PASS
		20635	1	-20.546	-13	PASS
			100%	-29.438	-13	PASS
	5MHz	20425	1	-19.700	-13	PASS
			100%	-27.769	-13	PASS
		20625	1	-22.767	-13	PASS
			100%	-26.776	-13	PASS
	10MHz	20450	1	-29.803	-13	PASS
			100%	-27.867	-13	PASS
		20600	1	-32.585	-13	PASS
			100%	-30.437	-13	PASS
16QAM	1.4MHz	20407	1	-23.514	-13	PASS
			100%	-28.793	-13	PASS
		20643	1	-23.916	-13	PASS
			100%	-29.731	-13	PASS
	3MHz	20415	1	-20.427	-13	PASS
			100%	-26.851	-13	PASS
		20635	1	-21.884	-13	PASS
			100%	-27.503	-13	PASS
	5MHz	20425	1	-21.476	-13	PASS
			100%	-27.531	-13	PASS
		20625	1	-23.678	-13	PASS
			100%	-28.325	-13	PASS
	10MHz	20450	1	-33.475	-13	PASS
			100%	-27.460	-13	PASS
		20600	1	-31.064	-13	PASS
			100%	-30.753	-13	PASS



LTE Band 26						
Modulation	Bandwidth	Channel	RB	Reference value (dBm)	Limit (dBm)	Conclusion
QPSK	1.4MHz	26797	1	-26.371	-13	PASS
			100%	-26.817	-13	PASS
		27033	1	-30.954	-13	PASS
			100%	-34.136	-13	PASS
	3MHz	26805	1	-23.230	-13	PASS
			100%	-25.092	-13	PASS
		27025	1	-27.950	-13	PASS
			100%	-31.433	-13	PASS
	5MHz	26815	1	-22.982	-13	PASS
			100%	-21.595	-13	PASS
		27015	1	-28.476	-13	PASS
			100%	-30.161	-13	PASS
	10MHz	26840	1	-33.110	-13	PASS
			100%	-32.855	-13	PASS
		26990	1	-30.922	-13	PASS
			100%	-33.415	-13	PASS
	15MHz	26865	1	-27.813	-13	PASS
			100%	-28.919	-13	PASS
		26965	1	-31.773	-13	PASS
			100%	-34.321	-13	PASS
16QAM	1.4MHz	26797	1	-27.910	-13	PASS
			100%	-26.478	-13	PASS
		27033	1	-32.250	-13	PASS
			100%	-31.790	-13	PASS
	3MHz	26805	1	-23.127	-13	PASS
			100%	-25.078	-13	PASS
		27025	1	-29.780	-13	PASS
			100%	-30.460	-13	PASS
	5MHz	26815	1	-25.473	-13	PASS
			100%	-22.836	-13	PASS
		27015	1	-30.576	-13	PASS
			100%	-30.115	-13	PASS
	10MHz	26840	1	-33.192	-13	PASS
			100%	-33.067	-13	PASS
		26990	1	-32.555	-13	PASS
			100%	-33.856	-13	PASS
	15MHz	26865	1	-27.866	-13	PASS
			100%	-28.141	-13	PASS
		26965	1	-34.583	-13	PASS
			100%	-34.915	-13	PASS



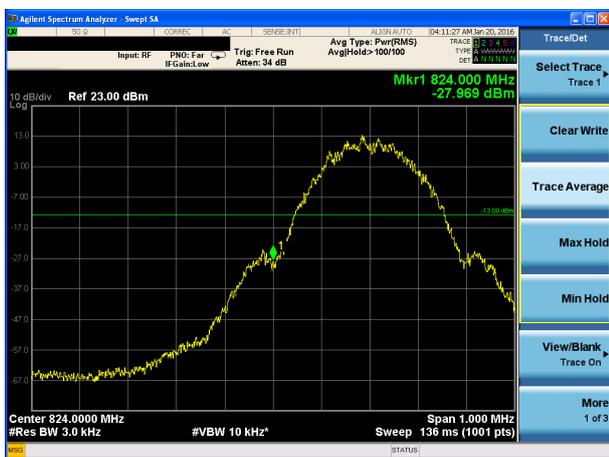
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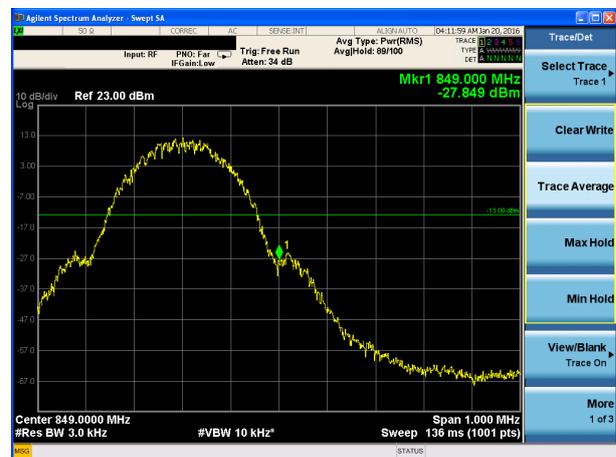
GSM 850 CH251



GSM 850 GPRS CH128



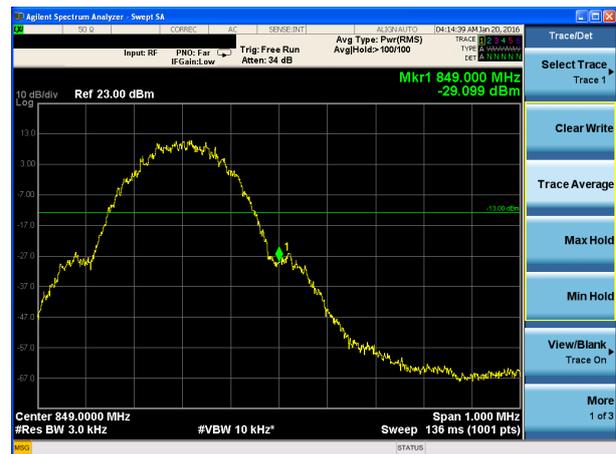
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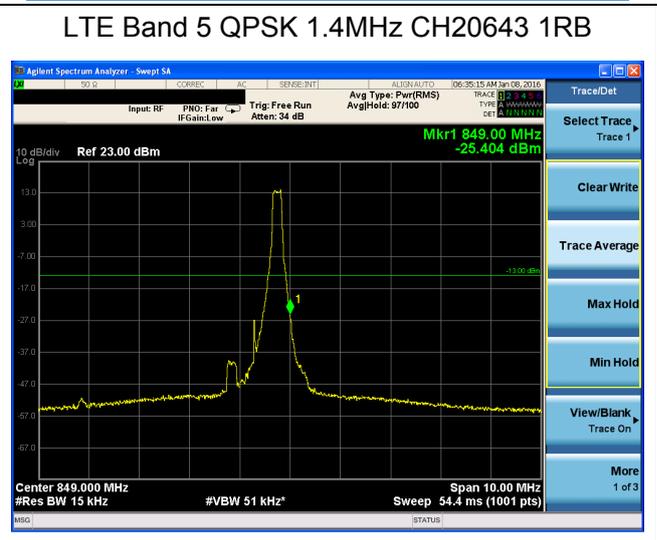
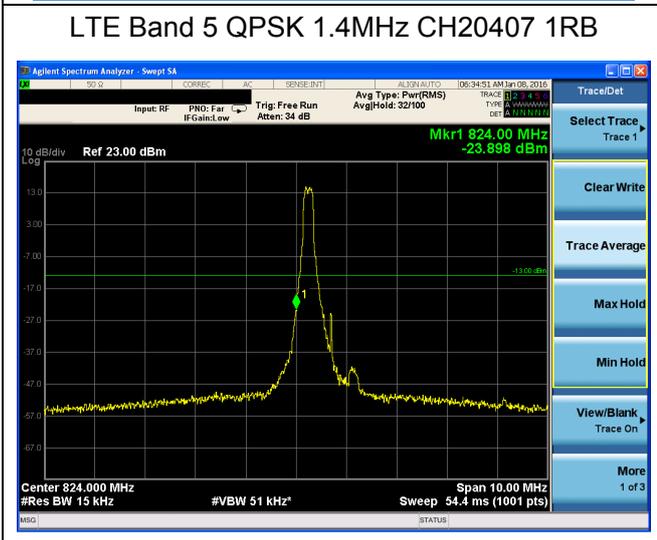
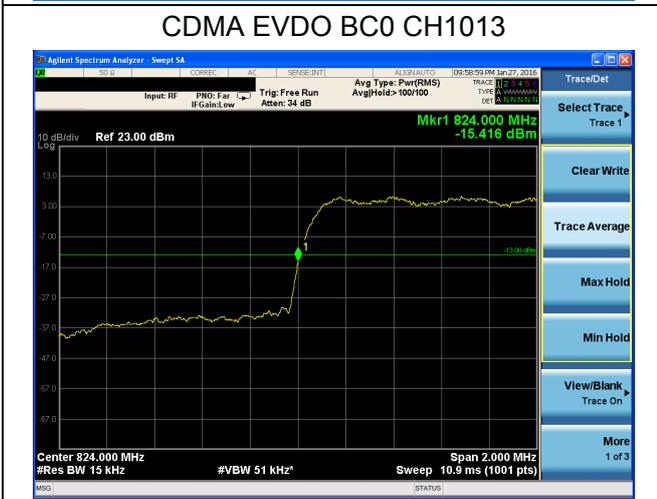
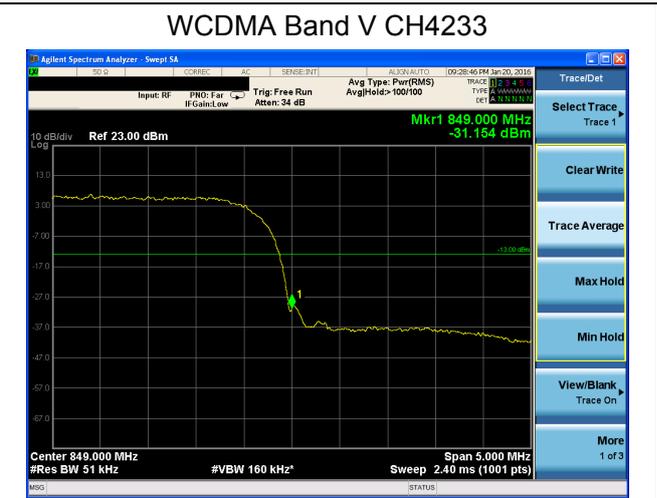
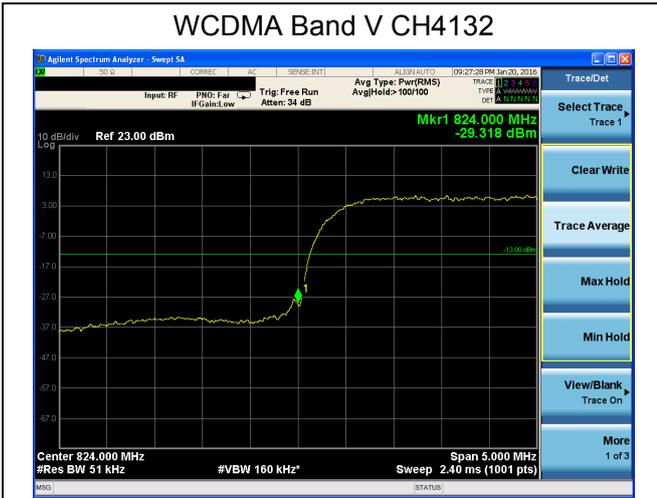


GSM 850 EGPRS CH128



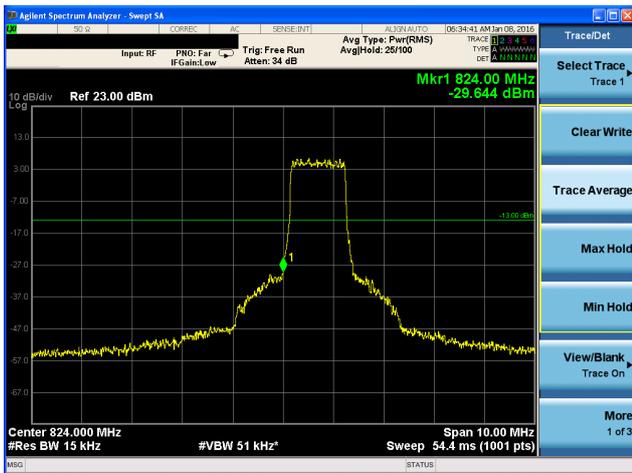
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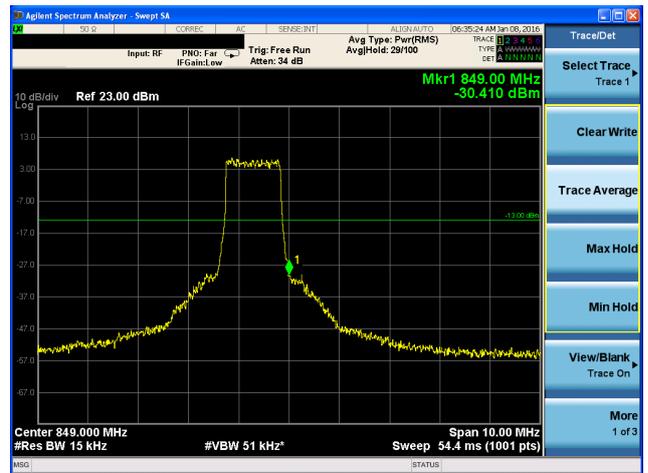




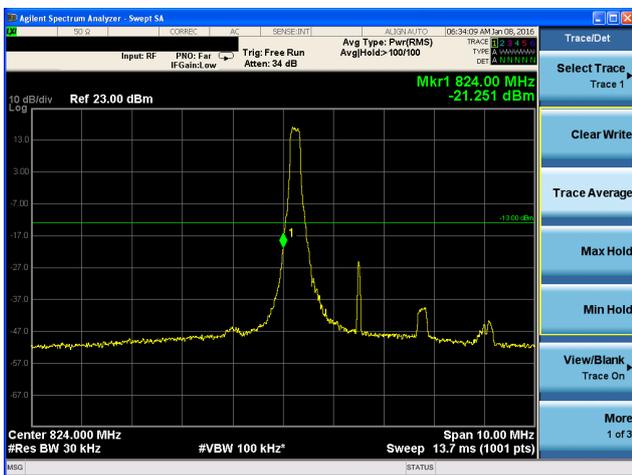
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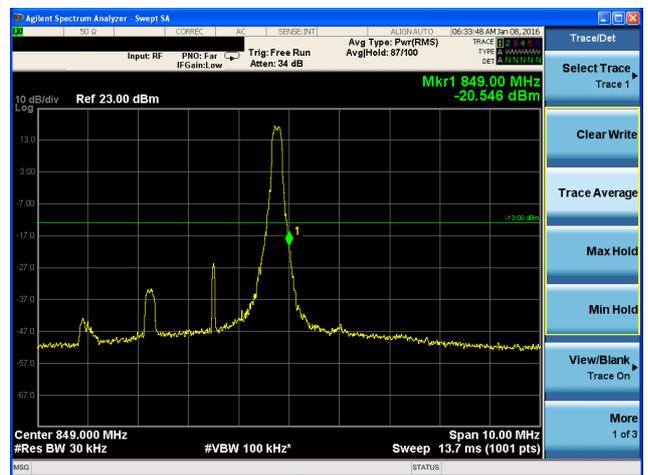
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LTE Band 5 QPSK 3MHz CH20415 1RB



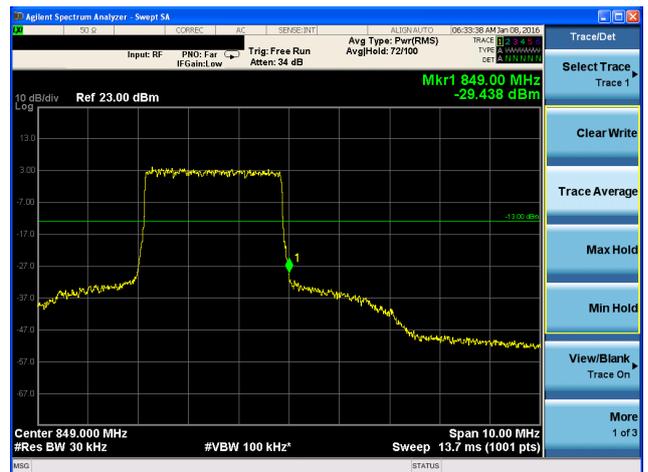
LTE Band 5 QPSK 3MHz CH20635 1RB



LTE Band 5 QPSK 3MHz CH20415 100%RB

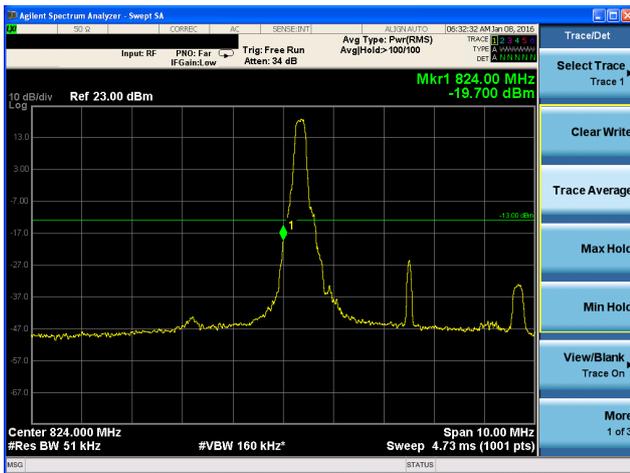


LTE Band 5 QPSK 3MHz CH20635 100%RB

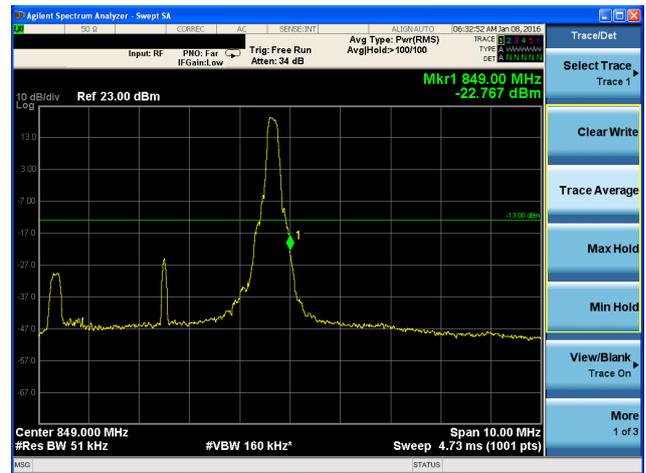




LTE Band 5 QPSK 5MHz CH20425 1RB



LTE Band 5 QPSK 5MHz CH20625 1RB



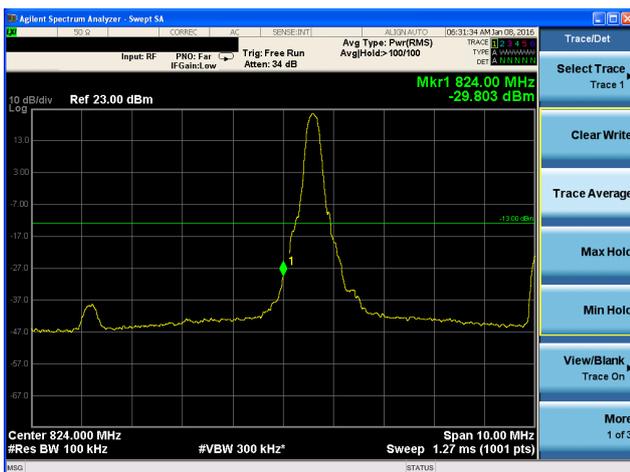
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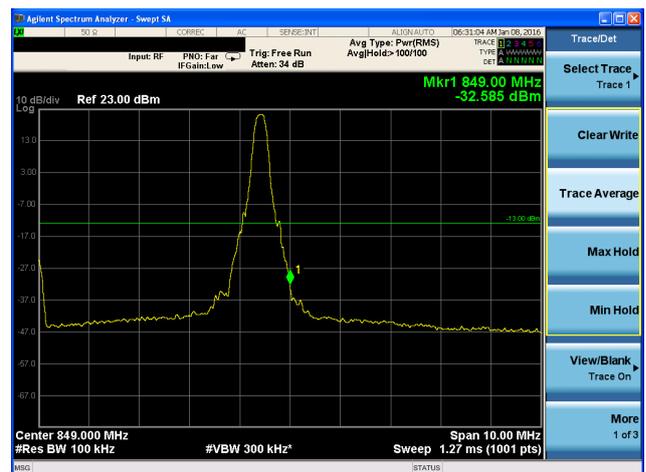
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LTE Band 5 QPSK 10MHz CH20450 1RB

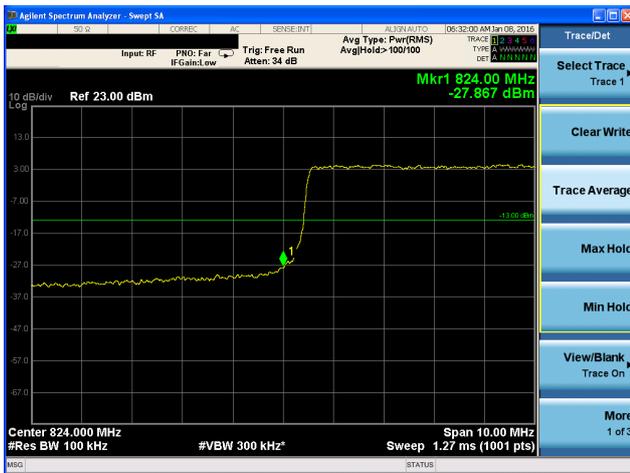


LTE Band 5 QPSK 10MHz CH20600 1RB





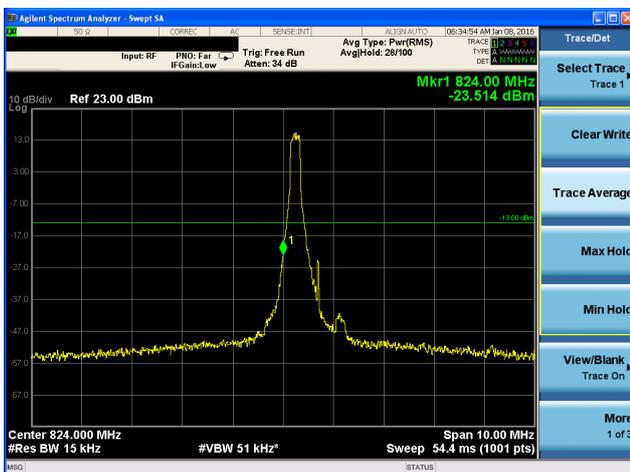
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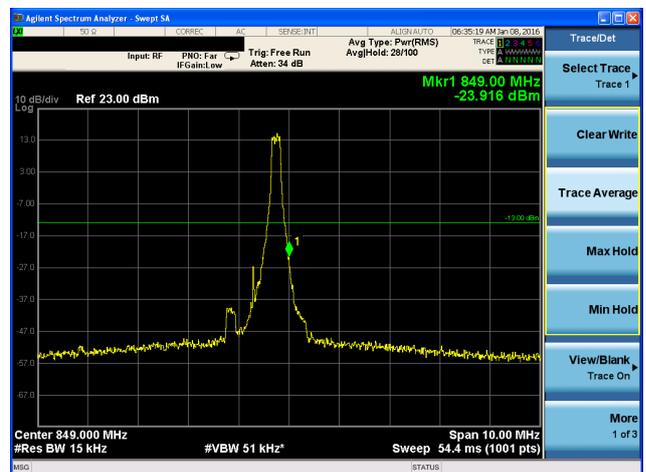
LTE Band 5 QPSK 10MHz CH20600 100%RB



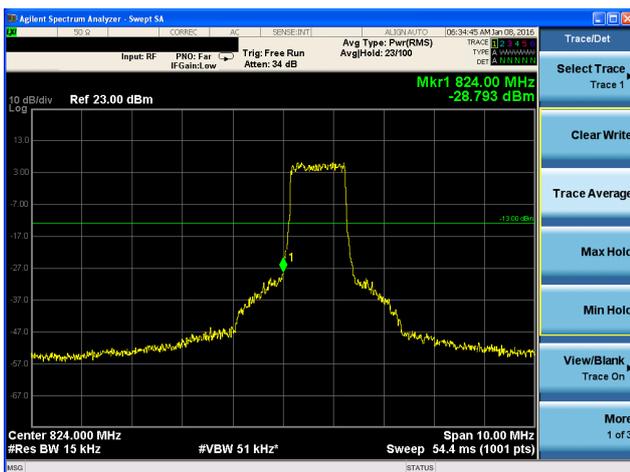
LTE Band 5 16QAM 1.4MHz CH20407 1RB



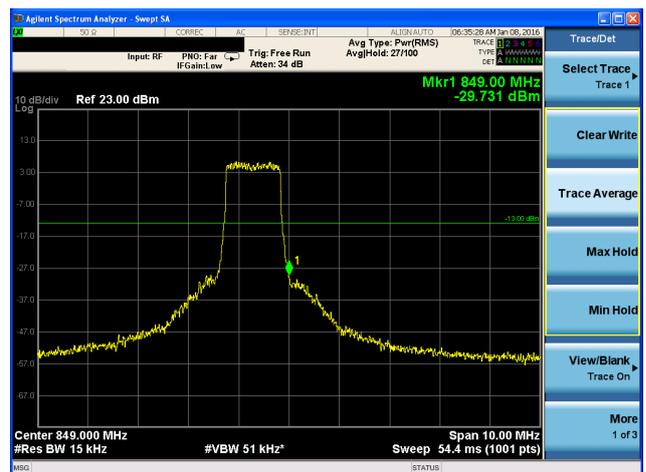
LTE Band 5 16QAM 1.4MHz CH20643 1RB



LTE Band 5 16QAM 1.4MHz CH20407 100%RB

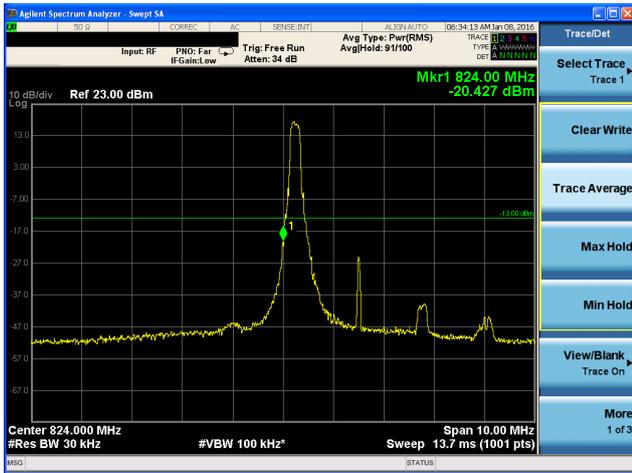


LTE Band 5 16QAM 1.4MHz CH20643 100%RB

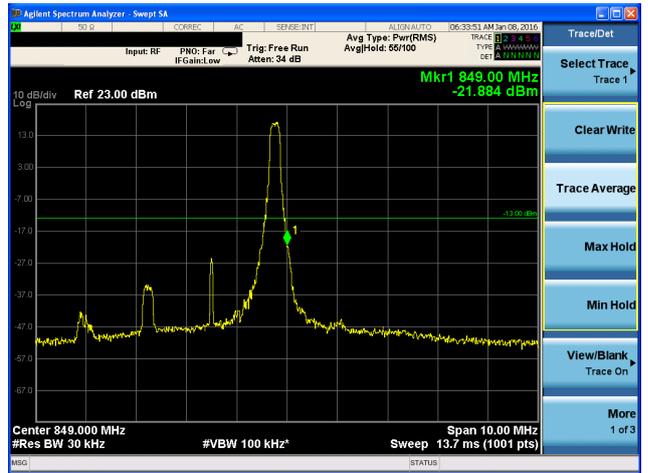




LTE Band 5 16QAM 3MHz CH20415 1RB



LTE Band 5 16QAM 3MHz CH20635 1RB



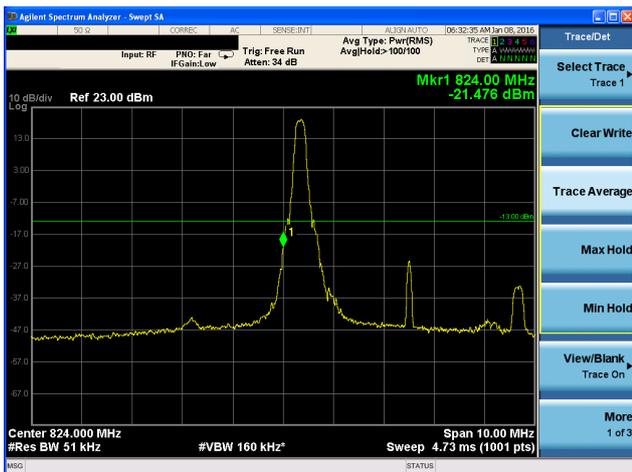
LTE Band 5 16QAM 3MHz CH20415 100%RB



LTE Band 5 16QAM 3MHz CH20635 100%RB



LTE Band 5 16QAM 5MHz CH20425 1RB



LTE Band 5 16QAM 5MHz CH20625 1RB

