

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E & SUBPART L
REQUIREMENT

OF

Product Name: Mobile Phone
Brand Name: Sony
Type No.: PM-0855-BV
Model Difference: N/A
FCC ID: PY7-PM0855
Report No.: ER/2014/B0051
Issue Date: Jan. 09, 2015
FCC Rule Part: 2, 22H & 24E & L
Prepared for: Sony Mobile Communications AB
 Nya Vattentornet 22188 Lund/SWEDEN
Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Sony Mobile Communications AB
 Nya Vattentorget 22188 Lund/Sweden

Product Name: Mobile Phone

Brand Name: Sony

Type No.: PM-0855-BV

Model Difference: N/A

FCC ID: PY7-PM0855

File Number: ER/2014/B0051

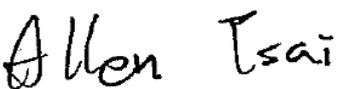
Date of test: Nov. 06, 2014 ~ Dec. 11, 2014

Date of EUT Received: Nov. 06, 2014

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule PART 22 subpart H, PART 24 subpart E, PART 27 subpart C.

The test results of this report relate only to the tested sample identified in this report.

Test By:		Date:	Jan. 09, 2015
	_____ <i>Marcus Tseng / Engineer</i>		_____
Prepared By:		Date:	Jan. 09, 2015
	_____ <i>Allen Tsai / Engineer</i>		_____
Approved By:		Date:	Jan. 09, 2015
	_____ <i>Jim Chang / Supervisor</i>		_____

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Revision History

Report Number	Revision	Description	Issue Date
ER/2014/B0051	Rev.00	Initial creation of document	Dec. 11, 2014
ER/2014/B0051	Rev.01	HW, SW, Internal photos	Jan. 09, 2015

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GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Mobile Phone	
Brand Name:	Sony	
Type No.:	PM-0855-BV	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Type No.: AI-0700, Length: 100 cm	
Simple Hands-Free (SHF):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
BT PHF	Model No.: SBH20, Supplier: Sony Type No.: RD-0010 coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA, Type No.: AG-0503)	
Hardware Version:	A	
Software Version:	25.0.B.0.35	
Power Supply:	3.8Vdc	
	Battery:	Model No.: LIS1574ERPC, Supplier: Sony Type No.: N/A
	Adapter:	1. Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US

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Bluetooth BR+EDR:

Bluetooth Version:	V4.1 dual mode + HS
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	5.38dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain: 2.52dBi

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.1 dual mode + HS
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	-1.49dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: 2.52dBi

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 18.87dBm g: 22.66dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20: 21.09dBm	OFDM
11n	HT40 2422-2452	7	HT40: 22.22dBm	OFDM
Antenna Designation:		PIFA Antenna, Gain: 2.52dBi		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n 20MHz: 6.5 – 72.2Mbps 802.11 n 40MHz: 13.5 – 135Mbps		

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11a	5150~5250	4	13.96dBm	OFDM
	5250~5350	4	13.99dBm	
	5470~5725	8	13.96dBm	
	5725-5850	5	13.79dBm	
11n	HT20 5150~5250	4	HT20: 12.99dBm	OFDM
	HT20 5250~5350	4	HT20: 12.95dBm	
	HT20 5470~5725	8	HT20: 12.99dBm	
	HT20 5725-5850	5	HT20: 12.79dBm	
11n	HT40 5150~5250	2	HT40: 11.95dBm	OFDM
	HT40 5250~5350	2	HT40: 11.93dBm	
	HT40 5470~5725	3	HT40: 11.96dBm	
	HT40 5725-5850	2	HT40: 11.98dBm	
Antenna Designation	PIFA Antenna, 5GHz Gain: -0.54dBi (5150MHz-5250MHz) 5GHz Gain: -0.89dBi (5250MHz-5350MHz) 5GHz Gain: -0.34dBi (5470MHz-5725MHz) 5GHz Gain: -0.19dBi (5725MHz-5850MHz)			
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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GSM / WCDMA/ LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	1.4MHz BW LTE-Band 2	1850MHz– 1909.3MHz	23dBm
	3MHz BW LTE-Band 2	1851.5MHz – 1908.5MHz	23dBm
	5MHz BW LTE-Band 2	1852.5MHz – 1907.5MHz	23dBm
	10MHz BW LTE-Band 2	1855MHz – 1905MHz	23dBm
	15MHz BW LTE-Band 2	1857.5MHz – 1902.5MHz	23dBm
	20MHz BW LTE-Band 2	1860MHz – 1900MHz	23dBm
	1.4MHz BW LTE-Band 5	824.7MHz – 848.3MHz	23dBm
	3MHz BW LTE-Band 5	825.5MHz – 847.5MHz	23dBm
	5MHz BW LTE-Band 5	826.5MHz – 846.5MHz	23dBm
	10MHz BW LTE-Band 5	829.0MHz – 844.0MHz	23dBm

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<p>Type of Emission:</p>	<p>GSM 850: 247KGXW, GSM 1900: 250KGXW GPRS 850: 246KGXW, GPRS 1900: 246KGXW EDGE 850: 250KG7W, EDGE 1900: 248KG7W WCDMA Band II: 4M22F9W, WCDMA Band V: 4M23F9W HSDPA Band II: 4M21F9W, HSDPA Band V: 4M23F9W HSUPA Band II: 4M20F9W, HSUPA Band V: 4M23F9W 1.4MHz BW LTE-Band 2 QPSK: 1M10G7D 1.4MHz BW LTE-Band 2 16QAM: 1M10D7W 3MHz BW LTE-Band 2 QPSK: 2M71 G7D 3MHz BW LTE-Band 2 16QAM: 2M71D7W 5MHz BW LTE-Band 2 QPSK: 4M53 G7D 5MHz BW LTE-Band 2 16QAM: 4M53D7W 10MHz BW LTE-Band 2 QPSK: 8M99 G7D 10MHz BW LTE-Band 2 16QAM: 8M99D7W 15MHz BW LTE-Band 2 QPSK: 13M52 G7D 15MHz BW LTE-Band 2 16QAM: 13M53D7W 20MHz BW LTE-Band 2 QPSK: 18M03 G7D 20MHz BW LTE-Band 2 16QAM: 18M00D7W 1.4MHz BW LTE-Band 5 QPSK: 1M10 G7D 1.4MHz BW LTE-Band 5 16QAM: 1M10D7W 3MHz BW LTE-Band 5 QPSK: 2M70 G7D 3MHz BW LTE-Band 5 16QAM: 2M70D7W 5MHz BW LTE-Band 5 QPSK: 4M53 G7D 5MHz BW LTE-Band 5 16QAM: 4M51D7W 10MHz BW LTE-Band 5 QPSK: 8M97 G7D 10MHz BW LTE-Band 5 16QAM: 8M95D7W</p>
<p>IMEI:</p>	<p>00440245-380610-5 / 00440245-380611-3</p>

This test report applies for 850 /1900 GSM/GPRS/EDGE, WCDMA / HSDPA / HSUPA Band II/IV /V and LTE Band 2 and Band 5. The spread of uplink in HSPA+ supports only up to 42.2 Mbps.

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.8 Vdc	366
GSM 1900	3.8 Vdc	341
GPRS 850	3.8 Vdc	336
GPRS 1900	3.8 Vdc	281
EDGE 850	3.8 Vdc	205
EDGE 1900	3.8 Vdc	212
WCDMA B2	3.8 Vdc	674
WCDMA B5	3.8 Vdc	563
HSUPA B2	3.8 Vdc	609
HSUPA B5	3.8 Vdc	502
HSDPA B2	3.8 Vdc	587
HSDPA B5	3.8 Vdc	505

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LTE Band 2_1.4M QPSK	3.8 Vdc	833
LTE Band 2_1.4M 16QAM	3.8 Vdc	748
LTE Band 2_3M QPSK	3.8 Vdc	832
LTE Band 2_3M 16QAM	3.8 Vdc	744
LTE Band 2_5M QPSK	3.8 Vdc	841
LTE Band 2_5M 16QAM	3.8 Vdc	762
LTE Band 2_10M QPSK	3.8 Vdc	832
LTE Band 2_10M 16QAM	3.8 Vdc	755
LTE Band 2_15M QPSK	3.8 Vdc	841
LTE Band 2_15M 16QAM	3.8 Vdc	765
LTE Band 2_20M QPSK	3.8 Vdc	847
LTE Band 2_20M 16QAM	3.8 Vdc	767

LTE Band 5_1.4M QPSK	3.8 Vdc	718
LTE Band 5_1.4M 16QAM	3.8 Vdc	682
LTE Band 5_3M QPSK	3.8 Vdc	722
LTE Band 5_3M 16QAM	3.8 Vdc	679
LTE Band 5_5M QPSK	3.8 Vdc	721
LTE Band 5_5M 16QAM	3.8 Vdc	683
LTE Band 5_10M QPSK	3.8 Vdc	788
LTE Band 5_10M 16QAM	3.8 Vdc	732

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1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PY7-PM0855** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part 27 subpart C & subpart L of the FCC CFR 47 Rules.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

TS 151 010-1 is used to set, and measure the output power.

The Output power Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA / HSPA) was used for EUT and Base station setting.

KDB971168 D01 Power Meas license Digital System v01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, Average Power over the fundamental signal BW (EIRP/ERP) and Signal Bandwidth.

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009 & ANSI C63.10: 2009. FCC Registration Numbers are: 990257, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 455997.

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2009 & ANSI C63.10:2009.

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2.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	01/13/2014	01/12/2015
Power Sensor	Anritsu	MA2411B	917032	01/13/2014	01/12/2015
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Spectrum Analyzer	Agilent	E4440A	US41160416	03/08/2014	03/07/2015
Radio Communication Analyzer	R & S	CMU200	116097	03/11/2014	03/10/2015
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Temperature Chamber	TERCHY	MHG-120LF	911009	05/07/2014	05/06/2015
DC Block	Mini-Circuits	BLK-18-S+	1	02/27/2014	02/26/2015
Attenuator	Mini-Circuit	BW-S10W2+	002	02/27/2014	02/26/2015
Splitter	Agilent	11636B	N/A	02/27/2014	02/26/2015
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	01/20/2014	01/19/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/02/2014	01/01/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2014	05/18/2015
Horn antenna	ETS.LINDGREN	3117	123991	01/20/2014	01/19/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	01/23/2014	01/22/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/24/2014	05/23/2015
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/03/2014	01/02/2015
Pre-Amplifier	Agilent	8449B	3008A00578	01/03/2014	01/02/2015
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/24/2014	01/23/2015
Attenuator	Mini-Circuit	BW-S10W2+	004	02/27/2014	02/26/2015
Radio Communication Analyzer	R & S	CMU200	116097	03/11/2014	03/10/2015
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/03/2014	01/02/2015
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/03/2014	01/02/2015
Filter 800-1000	Micro-Tronics	EWT	M2	02/27/2014	02/26/2015
Filter 1800-2000	Micro-Tronics	EWT	M2	02/27/2014	02/26/2015
Filter 1700-1800	Micro-Tronics	BRC15751	001	02/27/2014	02/26/2015
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/27/2014	02/26/2015
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/27/2014	02/26/2015
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

Note: N.C.R refers to Not Calibrated Required

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2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

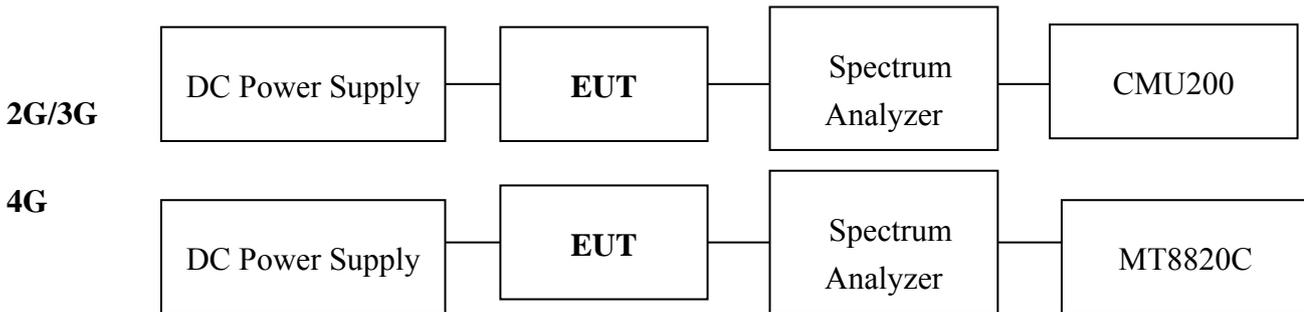


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

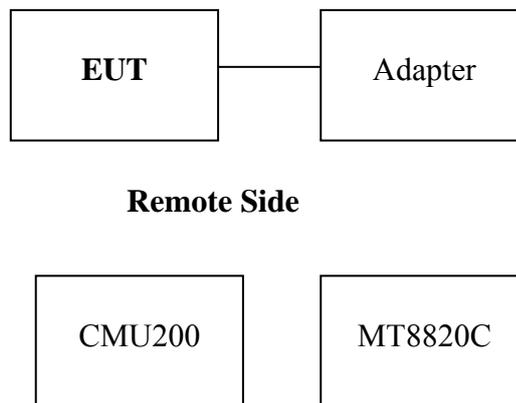


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	MY40005907	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant
§24.232(d)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1) §22.355 §24.235	Frequency Stability vs. Voltage	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	24.77	ERP	0.300
GSM 1900 Band	26.69	EIRP	0.467
GPRS 850 Band	24.51	ERP	0.282
GPRS 1900 Band	26.25	EIRP	0.422
EDGE 850 Band	23.32	ERP	0.215
EDGE 1900 Band	25.97	EIRP	0.395
WCDMA Band II	22.71	EIRP	0.187
WCDMA Band V	19.22	ERP	0.084
HSDPA Band II	22.42	EIRP	0.175
HSDPA Band V	19.01	ERP	0.080
HSUPA Band II	22.00	EIRP	0.158
HSUPA Band V	18.74	ERP	0.075

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	dBm		W
LTE Band 2/1.4MMz /QPSK RB 1 Offset 0	25.18	EIRP	0.330
LTE Band 2/1.4MMz /QPSK RB 1 Offset 5	25.18	EIRP	0.330
LTE Band 2/1.4MMz /16QAM RB 1 Offset 0	25.67	EIRP	0.369
LTE Band 2/1.4MMz /16QAM RB 1 Offset 5	25.89	EIRP	0.388
LTE Band 2/3MMz /QPSK RB 1 Offset 0	25.08	EIRP	0.322
LTE Band 2/3MMz /QPSK RB 1 Offset 14	25.11	EIRP	0.324
LTE Band 2/3MMz /16QAM RB 1 Offset 0	25.76	EIRP	0.377
LTE Band 2/3MMz /16QAM RB 1 Offset 14	25.65	EIRP	0.367
LTE Band 2/5MMz /QPSK RB 1 Offset 0	25.19	EIRP	0.330
LTE Band 2/5MMz /QPSK RB 1 Offset 24	25.12	EIRP	0.325
LTE Band 2/5MMz /16QAM RB 1 Offset 0	25.79	EIRP	0.379
LTE Band 2/5MMz /16QAM RB 1 Offset 24	25.70	EIRP	0.372
LTE Band 2/10MMz /QPSK RB 1 Offset 0	25.03	EIRP	0.318
LTE Band 2/10MMz /QPSK RB 1 Offset 49	25.30	EIRP	0.339
LTE Band 2/10MMz /16QAM RB 1 Offset 0	25.86	EIRP	0.385
LTE Band 2/10MMz /16QAM RB 1 Offset 49	25.98	EIRP	0.396
LTE Band 2/15MMz /QPSK RB 1 Offset 0	25.18	EIRP	0.330
LTE Band 2/15MMz /QPSK RB 1 Offset 74	25.30	EIRP	0.339
LTE Band 2/15MMz /16QAM RB 1 Offset 0	25.82	EIRP	0.382
LTE Band 2/15MMz /16QAM RB 1 Offset 74	25.95	EIRP	0.394
LTE Band 2/20MMz /QPSK RB 1 Offset 0	25.37	EIRP	0.344
LTE Band 2/20MMz /QPSK RB 1 Offset 99	25.22	EIRP	0.333
LTE Band 2/20MMz /16QAM RB 1 Offset 0	26.02	EIRP	0.400
LTE Band 2/20MMz /16QAM RB 1 Offset 99	25.91	EIRP	0.390

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	dBm		W
LTE Band 5/1.4MMz /QPSK RB 1 Offset 0	24.13	ERP	0.259
LTE Band 5/1.4MMz /QPSK RB 1 Offset 5	24.84	ERP	0.305
LTE Band 5/1.4MMz /16QAM RB 1 Offset 0	24.48	ERP	0.281
LTE Band 5/1.4MMz /16QAM RB 1 Offset 5	24.71	ERP	0.296
LTE Band 5/3MMz /QPSK RB 1 Offset 0	23.42	ERP	0.220
LTE Band 5/3MMz /QPSK RB 1 Offset 14	23.90	ERP	0.245
LTE Band 5/3MMz /16QAM RB 1 Offset 0	24.14	ERP	0.259
LTE Band 5/3MMz /16QAM RB 1 Offset 14	24.64	ERP	0.291
LTE Band 5/5MMz /QPSK RB 1 Offset 0	23.28	ERP	0.213
LTE Band 5/5MMz /QPSK RB 1 Offset 24	24.07	ERP	0.255
LTE Band 5/5MMz /16QAM RB 1 Offset 0	24.04	ERP	0.254
LTE Band 5/5MMz /16QAM RB 1 Offset 24	24.74	ERP	0.298
LTE Band 5/10MMz /QPSK RB 1 Offset 0	25.02	ERP	0.318
LTE Band 5/10MMz /QPSK RB 1 Offset 49	24.08	ERP	0.256
LTE Band 5/10MMz /16QAM RB 1 Offset 0	25.23	ERP	0.333
LTE Band 5/10MMz /16QAM RB 1 Offset 49	24.65	ERP	0.292

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT was staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The list of channel selected to conduct the measurements

GSM/GPRS/EDGE 850:

Channel Low: AFRCN 128 at 824.2MHz, Channel Mid: AFRCN 190 at 836.6MHz, Channel High: AFRCN 251 at 848.8MHz.

GSM/GPRS/EDGE 1900:

Channel Low: AFRCN 512 at 1850.2MHz, Channel Mid: AFRCN 661 at 1880.0MHz, Channel High: AFRCN 810 at 1909.8MHz

WCDMA/HSPA BII:

Channel Low: UAFRCN 9262 at 1852.4MHz, Channel Mid: UAFRCN 9400 at 1880.0MHz, Channel High: UAFRCN 9538 at 1907.6MHz.

WCDMA/HSPA BV:

Channel Low: UAFRCN 4132 at 826.4MHz, Channel Mid: UAFRCN 4183 at 836.6MHz, Channel High: UAFRCN 4233 at 846.6MHz.

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LTE B2

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	1.4	18607	1850.7
	3	18615	1852.5
	5	18625	1851.5
	10	18650	1855.0
	15	18675	1857.5
	20	18700	1860.0
Middle	1.4/3/5/10/ 15/20	18900	1880.0
High	1.4	19193	1909.3
	3	19185	1907.5
	5	19175	1908.5
	10	19150	1905.0
	15	19125	1902.5
	20	19100	1900.0

LTE B5:

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	1.4	20407	824.7
	3	20415	825.5
	5	20425	826.5
	10	20450	829.0
Middle	1.4/3/ 5/10	20525	836.5
High	1.4	20643	848.3
	3	20643	848.3
	5	20625	846.5
	10	20600	844.0

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE, WCDMA/HSPA Band II / IV/ V, and LTE Band 2 and Band 5 with power adaptor. The worst-case of H position for GSM 850 / GPRS1900, WCDMA/HSPA Band II / V and LTE Band 5, E2 position for LTE Band 2 were reported.

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The evaluation of Test Mode as configured in UE presented on the Test Report:**GSM/GPRS/WCDMA/HSPA:****Radiated Spurious Emission**

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

GSM, WCDMA is the worst-case found in the pre-scanned measurement, and only data that yields the worst case is revealed on the test report.

LTE:**Radiated Spurious Emission**

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

Out of Band Emission at Antenna Terminal, and Bandedge

In comparison among all Out of Band Emission at Antenna Terminal and Bandedge in the variety of combination on LTE band 2 / 5, respectively, It's revealed to generate the highest emission while RB size = 1 with offset 0 (CSE) and RB size = 1 with offset of both extremity for all supported transmission bandwidth of all supported frequency band. Be aware of that only data measurement that yields the worst measurement with supported modulation scheme (QPSK, 16QAM), QPSK – the worst, is shown on the corresponding section.

Peak to Average Ratio

For Peak to Average Ratio test, all combination (RB arrangement with different modulation scheme) has been evaluated, the data with the following configuration: RB number = full and modulation = 16QAM is revealed to generate the worst case result.

Only data that generates the worst-case result is shown on the report.

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.42 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 123.36 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.55 dB
Peak to Average Ratio	+/- 1.55 dB
Frequency Stability vs. Temperature	+/- 123.36 Hz
Frequency Stability vs. Voltage	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. RF POWER OUTPUT MEASUREMENT

6.1. Standard Applicable:

According to FCC §2.1046.

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

Sub-test in table C.10.1.4	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-3.7	+21	+2.7/-2.7
2	+24	+1.7/-3.7	+21	+2.7/-2.7
3	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7
4	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7

Maximum Output Powers for HSUPA

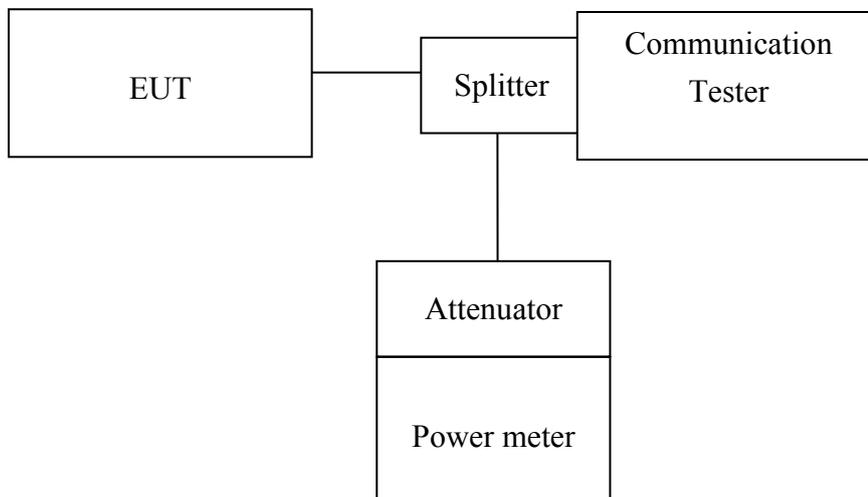
Sub-test in table C.11.1.3	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7

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6.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

Necessary Communication complying with 24.232 (c) and 27.50(d)(4)

Set CMU200 (base-station simulator) MS Signal with packet data submenu; SLOT Configuration

Set appropriate level to verify if or not power on mobile station’s link with simulator still exists.

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5. Measurement Result:

6.5.1. RF Conducted Output Power

6.5.1.1.: GSM/GPRS/EDGE (GMSK; 8-PSK)

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 850	824.2	128	32.50	32.40
	836.6	190	32.70	32.50
	848.8	251	32.80	32.60

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 1900	1850.2	512	29.70	29.60
	1880.0	661	29.70	29.60
	1909.8	810	30.00	29.90

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.50	32.40	29.20	29.10
	836.6	190	32.60	32.50	29.40	29.20
	848.8	251	32.80	32.60	29.60	29.40

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	27.70	27.60	26.90	26.80
	836.6	190	27.80	27.70	27.00	26.90
	848.8	251	28.10	27.90	27.20	27.10

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 1900	1850.2	512	29.70	29.60	26.40	26.20
	1880.0	661	29.70	29.60	26.30	26.20
	1909.8	810	30.00	29.90	26.70	26.50

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 1900	1850.2	512	24.60	24.40	24.00	23.90
	1880.0	661	24.50	24.40	24.00	23.80
	1909.8	810	24.90	24.70	24.30	24.20

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 850	824.2	128	30.60	27.50	27.80	24.50
	836.6	190	30.80	27.60	27.70	24.60
	848.8	251	30.80	27.60	28.00	24.70

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	26.20	23.10	27.50	24.30
	836.6	190	26.30	23.10	27.50	24.40
	848.8	251	26.40	23.20	27.80	24.50

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
EDGE 1900	1850.2	512	29.90	26.90	27.20	24.00
	1880.0	661	29.70	26.70	27.00	23.90
	1909.8	810	29.90	27.00	27.30	24.20

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
EDGE 1900	1850.2	512	26.30	23.00	25.10	21.90
	1880.0	661	26.20	22.90	25.00	21.80
	1909.8	810	26.40	23.20	25.20	22.10

Cable loss offset Low Band: 13.7dB

Cable loss offset High Band: 14dB

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6.5.1.2.: WCDMA mode

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band II	1852.4	9262	26.91	24.06
	1880.0	9400	27.10	24.12
	1907.6	9538	26.87	24.44

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	27.68	24.49
	836.6	4183	27.66	24.46
	846.6	4233	27.39	24.33

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band II	1852.4	9262	26.36	22.93
	1880.0	9400	26.57	23.01
	1907.6	9538	26.70	23.37

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band V	826.4	4132	27.08	23.50
	836.6	4183	27.09	23.41
	846.6	4233	26.90	23.16

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band II	1852.4	9262	26.37	22.94
	1880.0	9400	26.61	23.04
	1907.6	9538	26.67	23.39

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band V	826.4	4132	27.08	23.53
	836.6	4183	27.07	23.41
	846.6	4233	26.88	23.12

Note: The results above reflect max power with all up bits.

Cable loss offset Low Band: 13.7dB

Cable loss offset High Band: 14dB

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6.5.1.3: MPR Table
 LTE Band 2_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	18607	1850.7	1	0	23.85
				1	5	23.96
				3	2	23.95
				6	0	23.05
		18900	1880.0	1	0	23.98
				1	5	23.97
				3	2	23.98
				6	0	23.07
		19193	1909.3	1	0	24.18
				1	5	24.11
				3	3	23.95
				6	0	23.34
1.4	16 QAM	18607	1850.7	1	0	23.29
				1	5	23.31
				3	2	22.97
				6	0	22.19
		18900	1880.0	1	0	23.37
				1	5	23.38
				3	3	22.98
				6	0	22.22
		19193	1909.3	1	0	23.42
				1	5	23.17
				3	2	22.94
				6	0	22.29

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LTE Band 2_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)		
3	QPSK	18615	1851.5	1	0	23.97		
				1	14	23.87		
				8	4	22.99		
				15	0	23.06		
		18900	1880.0	18900	1880.0	1	0	23.92
						1	14	23.95
						8	4	23.07
						15	0	23.09
		19185	1908.5	19185	1908.5	1	0	24.18
						1	14	24.11
						8	4	23.27
						15	0	23.33
3	16 QAM	18615	1851.5	1	0	22.96		
				1	14	22.92		
				8	4	22.13		
				15	0	22.07		
		18900	1880.0	18900	1880.0	1	0	23.38
						1	14	23.04
						8	4	22.16
						15	0	22.09
		19185	1908.5	19185	1908.5	1	0	23.47
						1	14	23.37
						8	4	22.32
						15	0	22.28

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LTE Band 2_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)		
5	QPSK	18625	1852.5	1	0	23.89		
				1	24	23.91		
				12	6	23.02		
				25	0	22.98		
		18900	1880.0	18900	1880.0	1	0	24.01
						1	24	23.93
						12	6	23.07
						25	0	23.02
		19175	1907.5	19175	1907.5	1	0	24.25
						1	24	24.12
						12	6	23.26
						25	0	23.25
5	16 QAM	18625	1852.5	1	0	23.01		
				1	24	23.24		
				12	6	22.06		
				25	0	22.06		
		18900	1880.0	18900	1880.0	1	0	23.41
						1	24	23.35
						12	6	22.12
						25	0	22.01
		19175	1907.5	19175	1907.5	1	0	23.55
						1	24	23.38
						12	6	22.28
						25	0	22.21

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LTE Band 2_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	18650	1855.0	1	0	24.09
				1	49	23.93
				25	12	22.95
				50	0	23.05
		18900	1880.0	1	0	24.07
				1	49	24.02
				25	12	23.03
				50	0	23.03
		19150	1905.0	1	0	24.17
				1	49	24.18
				25	12	23.24
				50	0	23.34
10	16 QAM	18650	1855.0	1	0	23.41
				1	49	23.04
				25	12	21.91
				50	0	21.99
		18900	1880.0	1	0	23.36
				1	49	23.08
				25	12	21.99
				50	0	22.05
		19150	1905.0	1	0	23.35
				1	49	23.18
				25	12	22.17
				50	0	22.26

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LTE Band 2_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	18675	1857.5	1	0	24.04
				1	74	23.84
				36	19	23.02
				75	0	23.05
		18900	1880.0	1	0	24
				1	74	23.94
				36	19	23.05
				75	0	23.11
		19125	1902.5	1	0	24.07
				1	74	24.13
				36	19	23.26
				75	0	23.28
15	16 QAM	18675	1857.5	1	0	22.89
				1	74	23
				36	19	22.06
				75	0	22.02
		18900	1880.0	1	0	23.17
				1	74	23.06
				36	19	22.11
				75	0	22.07
		19125	1902.5	1	0	23.12
				1	74	23.11
				36	19	22.29
				75	0	22.21

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LTE Band 4_20MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
20	QPSK	18700	1860.0	1	0	23.96
				1	99	23.85
				50	25	22.97
				100	0	22.97
		18900	1880.0	1	0	24.04
				1	99	23.97
				50	25	23.06
				100	0	23.01
		19100	1900.0	1	0	24.09
				1	99	24.18
				50	25	23.26
				100	0	23.16
20	16 QAM	18700	1860.0	1	0	22.87
				1	99	22.77
				50	25	21.98
				100	0	21.97
		18900	1880.0	1	0	23.03
				1	99	22.76
				50	25	22.01
				100	0	22.04
		19100	1900.0	1	0	22.93
				1	99	22.9
				50	25	22.22
				100	0	22.12

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LTE Band 5_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	20407	824.7	1	0	24
				1	5	23.95
				3	2	23.97
				6	0	23.06
		20525	836.5	1	0	23.92
				1	5	23.9
				3	2	23.87
				6	0	22.92
		20643	848.3	1	0	23.95
				1	5	23.96
				3	3	23.91
				6	0	22.98
1.4	16 QAM	20407	824.7	1	0	23.3
				1	5	23.43
				3	2	22.99
				6	0	22.28
		20525	836.5	1	0	23.28
				1	5	23.14
				3	3	22.98
				6	0	22.05
		20643	848.3	1	0	23.24
				1	5	23.16
				3	2	22.95
				6	0	22.13

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LTE Band 5_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)	
3	QPSK	20800	2505.0	1	0	24.1	
				1	14	24.01	
				8	4	23.17	
				15	0	23.1	
		21100	2535.0		1	0	23.84
					1	14	23.82
					8	4	23
					15	0	22.92
		21400	2565.0		1	0	23.96
					1	14	23.79
					8	4	23.09
					15	0	23.03
3	16 QAM	20800	2505.0	1	0	23.29	
				1	14	23.33	
				8	4	22.27	
				15	0	22.17	
		21100	2535.0		1	0	23.34
					1	14	23.14
					8	4	22.1
					15	0	21.88
		21400	2565.0		1	0	23.38
					1	14	23.21
					8	4	22.05
					15	0	22.02

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LTE Band 5_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)	
5	QPSK	20425	826.5	1	0	24.33	
				1	24	24.33	
				12	6	23.4	
				25	0	23.37	
		20525	836.5	836.5	1	0	24.28
					1	24	24.26
					12	6	23.34
					25	0	23.28
		20625	846.5	846.5	1	0	24.38
					1	24	24.31
					12	6	23.42
					25	0	23.4
5	16 QAM	20425	826.5	1	0	23.89	
				1	24	23.41	
				12	6	22.47	
				25	0	22.49	
		20525	836.5	836.5	1	0	23.73
					1	24	23.4
					12	6	22.43
					25	0	22.3
		20625	846.5	846.5	1	0	23.54
					1	24	23.74
					12	6	22.52
					25	0	22.38

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LTE Band 5_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	20450	829.0	1	0	24.36
				1	49	24.27
				25	12	23.33
				50	0	23.37
		20525	836.5	1	0	24.36
				1	49	24.29
				25	12	23.28
				50	0	23.27
		20600	844.0	1	0	24.37
				1	49	24.27
				25	12	23.31
				50	0	23.31
10	16 QAM	20450	829	1	0	23.57
				1	49	23.39
				25	12	22.44
				50	0	22.38
		20525	836.5	1	0	23.42
				1	49	23.48
				25	12	22.43
				50	0	22.31
		20600	844.0	1	0	23.48
				1	49	23.38
				25	12	22.44
				50	0	22.34

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6.5.1.4:HSDPA Release 6 mode

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_a	β_a (SF)	β_c/β_a	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	24.28	24.37	24.63	20.3dBm – 25.7dBm	Pass
	2	23.99	24.01	24.31	20.3dBm – 25.7dBm	Pass
	3	23.82	23.89	24.14	19.8dBm – 25.7dBm	Pass
	4	23.87	23.93	24.20	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	24.71	24.71	24.52	20.3dBm – 25.7dBm	Pass
	2	24.42	24.35	24.20	20.3dBm – 25.7dBm	Pass
	3	24.25	24.23	24.03	19.8dBm – 25.7dBm	Pass
	4	24.30	24.27	24.09	19.8dBm – 25.7dBm	Pass

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6.5.1.4.: HSPA (HSDPA & HSUPA) Release 6 mode

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power_{ed} ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	24.02	24.05	24.35	18.8dBm – 25.7dBm	Pass
	2	22.08	22.13	22.39	16.8dBm – 25.7dBm	Pass
	3	22.99	23.11	23.38	17.8dBm – 25.7dBm	Pass
	4	22.13	22.19	22.47	16.8dBm – 25.7dBm	Pass
	5	23.88	23.88	24.24	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	24.45	24.39	24.27	18.8dBm – 25.7dBm	Pass
	2	22.51	22.47	22.28	16.8dBm – 25.7dBm	Pass
	3	23.42	23.45	23.27	17.8dBm – 25.7dBm	Pass
	4	22.56	22.53	22.36	16.8dBm – 25.7dBm	Pass
	5	24.31	24.22	24.13	18.8dBm – 25.7dBm	Pass

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6.5.2. Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.6	28	26	24.1	22	19.9	18.2	16.1	14.2

PCL	9	10	11	12	13	14	15
Output power (dBm)	12	10.1	8.2	6.3	4.2	2	0.1

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

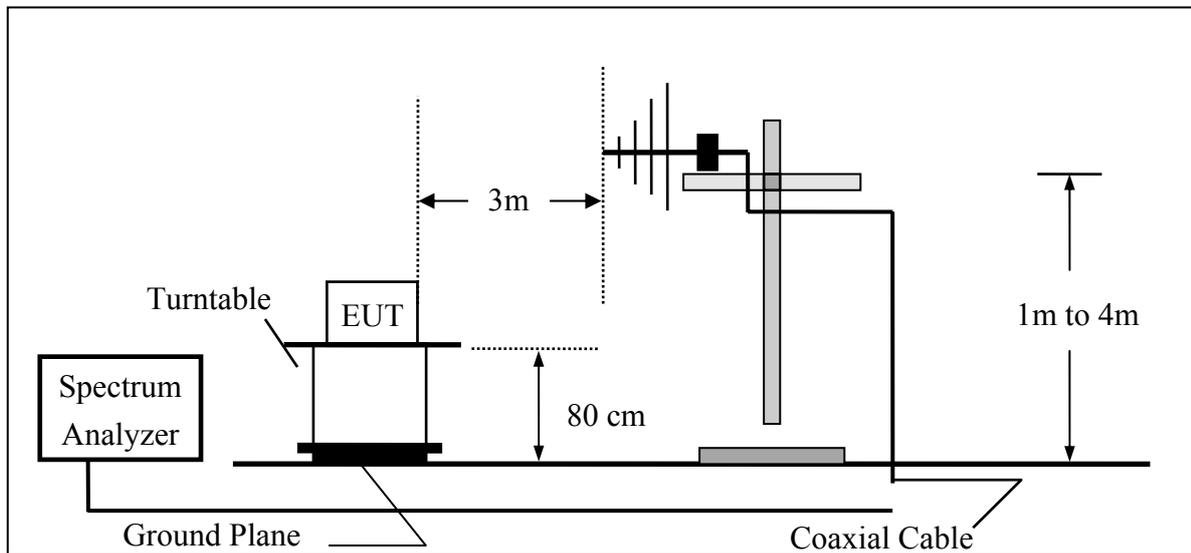
According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile station is limited to 2W EIRP.

7.2. Test SET-UP (Block Diagram of Configuration):

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz

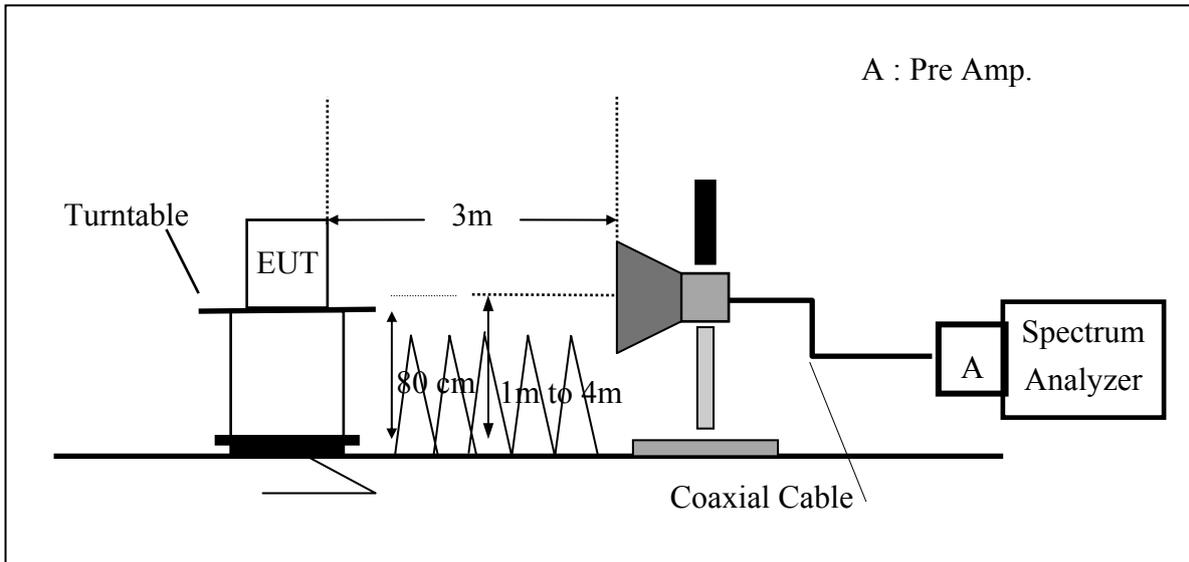


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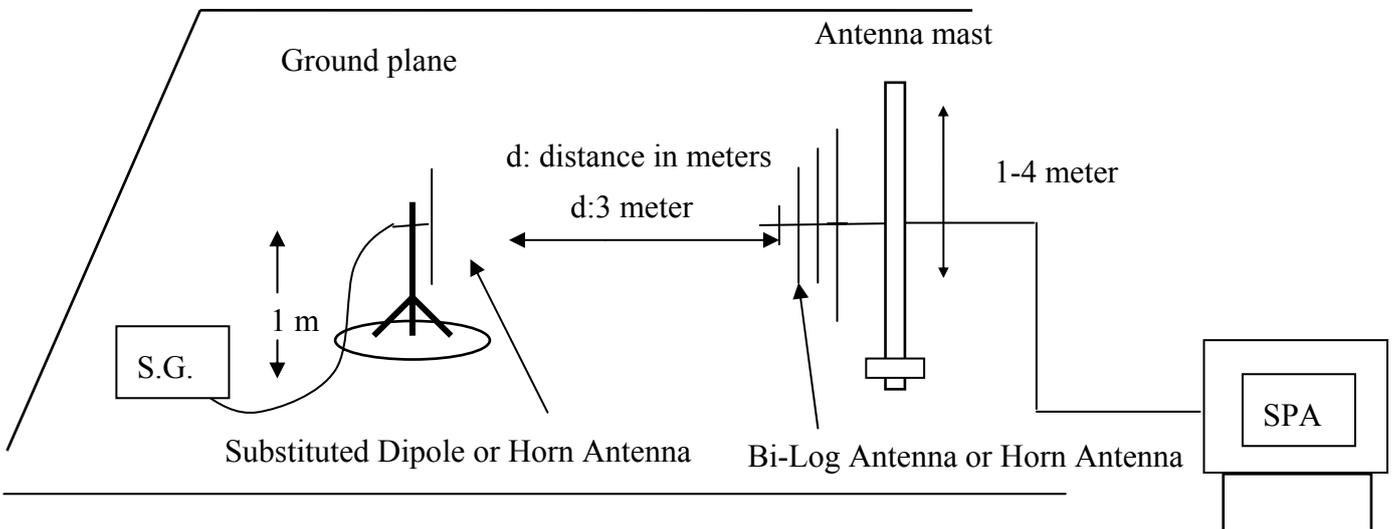
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80MHz and 824.7 –848.30MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz and 1850.7 –1909.3MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

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Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and $VBW \geq 3 \times RBW$.

Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;

Set span = 2 X occupied BW;

Set RBW \approx 1~5% of the span, not to exceed 1 MHz

Set VBW = 3 x RBW;

Select average power (RMS) detector

Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601 points, then sweep time = $601 \times 10^{-3} = 6s$).

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of $10 \times \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extend, and RBW is the resolution BW in UE.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	824.2	128	V	24.04	3.75	-3.03	24.77	38.45
			H	21	3.75	-3.03	21.72	38.45
	836.6	190	V	22.93	3.76	-3.07	23.62	38.45
			H	21	3.76	-3.07	21.7	38.45
	848.8	251	V	23.58	3.77	-3.11	24.25	38.45
			H	19.19	3.77	-3.11	19.85	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	23.78	3.75	-3.03	24.51	38.45
			H	20.66	3.75	-3.03	21.39	38.45
	836.6	190	V	22.63	3.76	-3.07	23.32	38.45
			H	20.59	3.76	-3.07	21.28	38.45
	848.8	251	V	23.39	3.77	-3.11	24.05	38.45
			H	18.52	3.77	-3.11	19.18	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	824.2	128	V	22.6	3.75	-3.03	23.32	38.45
			H	19.69	3.75	-3.03	20.41	38.45
	836.6	190	V	22.03	3.76	-3.07	22.73	38.45
			H	19.7	3.76	-3.07	20.39	38.45
	848.8	251	V	22.32	3.77	-3.11	22.98	38.45
			H	17.18	3.77	-3.11	17.84	38.45

Remark : (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	1850.2	512	V	25.5	5.22	-4.67	26.05	33.01
			H	20.34	5.22	-4.67	20.9	33.01
	1880.0	661	V	26.24	5.16	-4.7	26.69	33.01
			H	23.13	5.16	-4.7	23.58	33.01
	1909.8	810	V	25.55	5.09	-4.74	25.91	33.01
			H	23.38	5.09	-4.74	23.74	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	25.4	5.22	-4.67	25.95	33.01
			H	20.07	5.22	-4.67	20.62	33.01
	1880.0	661	V	25.8	5.16	-4.7	26.25	33.01
			H	21.79	5.16	-4.7	22.24	33.01
	1909.8	810	V	25.37	5.09	-4.74	25.73	33.01
			H	23.08	5.09	-4.74	23.43	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	1850.2	512	V	25.02	5.22	-4.67	25.57	33.01
			H	19.61	5.22	-4.67	20.17	33.01
	1880.0	661	V	25.52	5.16	-4.7	25.97	33.01
			H	21.33	5.16	-4.7	21.78	33.01
	1909.8	810	V	25.15	5.09	-4.74	25.5	33.01
			H	22.73	5.09	-4.74	23.09	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300K, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B2	1852.4	9262	V	22.17	5.22	-4.67	22.71	33.01
			H	16.41	5.22	-4.67	16.96	33.01
	1880.0	9400	V	22.18	5.16	-4.7	22.63	33.01
			H	17.26	5.16	-4.7	17.72	33.01
	1907.6	9538	V	21.51	5.1	-4.74	21.87	33.01
			H	18.25	5.1	-4.74	18.61	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B2	1852.4	9262	V	21.83	5.22	-4.67	22.38	33.01
			H	15.99	5.22	-4.67	16.54	33.01
	1880.0	9400	V	21.96	5.16	-4.7	22.42	33.01
			H	16.61	5.16	-4.7	17.07	33.01
	1907.6	9538	V	20.97	5.1	-4.74	21.33	33.01
			H	17.91	5.1	-4.74	18.27	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B2	1852.4	9262	V	21.45	5.22	-4.67	22.00	33.01
			H	15.78	5.22	-4.67	16.33	33.01
	1880.0	9400	V	20.66	5.16	-4.7	21.12	33.01
			H	16.37	5.16	-4.7	16.82	33.01
	1907.6	9538	V	20.59	5.1	-4.74	20.95	33.01
			H	17.54	5.1	-4.74	17.9	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	18.05	3.76	-3.04	18.77	38.45
			H	15.18	3.76	-3.03	15.9	38.45
	836.6	4183	V	18.53	3.76	-3.07	19.22	38.45
			H	15.28	3.76	-3.07	15.98	38.45
	846.6	4233	V	17.78	3.77	-3.1	18.45	38.45
			H	13.85	3.77	-3.1	14.51	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	826.4	4132	V	18.02	3.76	-3.03	18.74	38.45
			H	15.02	3.76	-3.03	15.75	38.45
	836.6	4183	V	18.31	3.76	-3.07	19.01	38.45
			H	15.02	3.76	-3.07	15.71	38.45
	846.6	4233	V	17.62	3.77	-3.1	18.28	38.45
			H	13.64	3.77	-3.1	14.31	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	826.4	4132	V	17.94	3.76	-3.03	18.66	38.45
			H	14.75	3.76	-3.03	15.48	38.45
	836.6	4183	V	18.04	3.76	-3.07	18.74	38.45
			H	14.92	3.76	-3.07	15.62	38.45
	846.6	4233	V	17.47	3.77	-3.1	18.14	38.45
			H	13.44	3.77	-3.1	14.11	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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BAND 2 / BW: 1.4M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M/ QPSK RB: 1,0	1850.7	18607	V	19.02	5.22	-4.67	19.57	33.01
			H	24.49	5.22	-4.67	25.05	33.01
	1880.0	18900	V	17.49	5.16	-4.7	17.94	33.01
			H	24.72	5.16	-4.7	25.18	33.01
	1909.3	19193	V	20.85	5.1	-4.74	21.21	33.01
			H	24.4	5.1	-4.74	24.76	33.01

BAND 2 / BW: 1.4M / QPSK / RB: 1,5

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	18.32	5.22	-4.67	18.87	33.01
			H	24.63	5.22	-4.67	25.18	33.01
	1880.0	18900	V	17.62	5.16	-4.7	18.07	33.01
			H	24.81	5.16	-4.7	25.27	33.01
	1909.3	19193	V	20.83	5.09	-4.74	21.19	33.01
			H	23.82	5.09	-4.74	24.18	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 1.4M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	18.77	5.23	-4.67	19.32	33.01
			H	24.96	5.23	-4.67	25.51	33.01
	1880.0	18900	V	18.03	5.16	-4.7	18.48	33.01
			H	25.21	5.16	-4.7	25.67	33.01
	1909.3	19193	V	21.27	5.1	-4.74	21.63	33.01
			H	24.55	5.1	-4.74	24.91	33.01

BAND 2 / BW: 1.4M / 16QAM / RB: 1,5

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	18.73	5.22	-4.67	19.29	33.01
			H	25.17	5.22	-4.67	25.73	33.01
	1880.0	18900	V	18.23	5.16	-4.7	18.68	33.01
			H	25.43	5.16	-4.7	25.89	33.01
	1909.3	19193	V	21.32	5.09	-4.74	21.68	33.01
			H	24.32	5.09	-4.74	24.68	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 3M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	18.22	5.23	-4.67	18.77	33.01
			H	24.53	5.23	-4.67	25.08	33.01
	1880.0	18900	V	17.33	5.16	-4.7	17.79	33.01
			H	24.45	5.16	-4.7	24.91	33.01
	1908.5	19185	V	20.25	5.1	-4.74	20.62	33.01
			H	24.26	5.1	-4.74	24.62	33.01

BAND 2 / BW: 3M / QPSK / RB: 1,14

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	18.07	5.22	-4.67	18.62	33.01
			H	24.56	5.22	-4.67	25.11	33.01
	1880.0	18900	V	17.68	5.16	-4.71	18.13	33.01
			H	24.51	5.16	-4.71	24.96	33.01
	1908.5	19185	V	19.76	5.09	-4.74	20.11	33.01
			H	23.74	5.09	-4.74	24.1	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 3M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	18.34	5.23	-4.67	18.9	33.01
			H	25.21	5.22	-4.67	25.76	33.01
	1880.0	18900	V	17.88	5.16	-4.7	18.34	33.01
			H	25.02	5.16	-4.7	25.48	33.01
	1908.5	19185	V	20.66	5.1	-4.74	21.02	33.01
			H	24.81	5.1	-4.73	25.17	33.01

BAND 2 / BW: 3M / 16QAM / RB: 1,14

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	18.64	5.22	-4.67	19.18	33.01
			H	25.1	5.22	-4.67	25.65	33.01
	1880.0	18900	V	18.28	5.16	-4.71	18.73	33.01
			H	25.08	5.16	-4.7	25.53	33.01
	1908.5	19185	V	19.79	5.09	-4.74	20.14	33.01
			H	24.22	5.09	-4.74	24.58	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 5M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	18.34	5.22	-4.67	18.89	33.01
			H	24.64	5.23	-4.67	25.19	33.01
	1880.0	18900	V	17.2	5.16	-4.7	17.66	33.01
			H	24.45	5.16	-4.7	24.92	33.01
	1907.5	19175	V	20.36	5.1	-4.73	20.73	33.01
			H	24.32	5.1	-4.73	24.69	33.01

BAND 2 / BW: 5M / QPSK / RB: 1,24

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	17.67	5.22	-4.67	18.21	33.01
			H	24.58	5.22	-4.67	25.12	33.01
	1880.0	18900	V	24.55	5.15	-4.71	25	33.01
			H	17.57	5.15	-4.71	18.01	33.01
	1907.5	19175	V	20.68	5.09	-4.74	21.04	33.01
			H	23.87	5.09	-4.74	24.23	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 5M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	18.19	5.22	-4.67	18.75	33.01
			H	25.24	5.22	-4.67	25.79	33.01
	1880.0	18900	V	17.77	5.17	-4.7	18.23	33.01
			H	25.02	5.16	-4.7	25.48	33.01
	1907.5	19175	V	20.55	5.1	-4.73	20.92	33.01
			H	24.88	5.1	-4.73	25.25	33.01

BAND 2 / BW: 5M / 16QAM / RB: 1,24

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	18.35	5.22	-4.67	18.89	33.01
			H	25.16	5.22	-4.67	25.7	33.01
	1880.0	18900	V	18.24	5.15	-4.71	18.69	33.01
			H	25.19	5.16	-4.71	25.64	33.01
	1907.5	19175	V	21.27	5.09	-4.74	21.63	33.01
			H	24.4	5.09	-4.74	24.76	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 10M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	18.44	5.22	-4.67	18.99	33.01
			H	24.48	5.22	-4.67	25.03	33.01
	1880.0	18900	V	16.18	5.17	-4.7	16.65	33.01
			H	24.2	5.17	-4.7	24.67	33.01
	1905.0	19150	V	17.82	5.11	-4.73	18.2	33.01
			H	23.93	5.11	-4.73	24.32	33.01

BAND 2 / BW: 10M / QPSK / RB: 1,49

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	16.06	5.2	-4.68	16.59	33.01
			H	24.37	5.21	-4.68	24.9	33.01
	1880.0	18900	V	16.88	5.15	-4.71	17.32	33.01
			H	24.85	5.15	-4.71	25.3	33.01
	1905.0	19150	V	20.72	5.09	-4.74	21.08	33.01
			H	23.85	5.09	-4.74	24.21	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 10M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	18.28	5.22	-4.67	18.83	33.01
			H	25.3	5.22	-4.67	25.86	33.01
	1880.0	18900	V	16.73	5.17	-4.7	17.2	33.01
			H	24.81	5.17	-4.7	25.28	33.01
	1905.0	19150	V	18.37	5.11	-4.73	18.75	33.01
			H	24.48	5.11	-4.73	24.87	33.01

BAND 2 / BW: 10M / 16QAM / RB: 1,49

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	16.77	5.21	-4.68	17.3	33.01
			H	25.08	5.21	-4.68	25.61	33.01
	1880.0	18900	V	17.68	5.15	-4.71	18.12	33.01
			H	25.54	5.15	-4.71	25.98	33.01
	1905.0	19150	V	21.32	5.1	-4.74	21.68	33.01
			H	24.43	5.09	-4.74	24.78	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 15M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	18.42	5.22	-4.67	18.97	33.01
			H	24.63	5.22	-4.67	25.18	33.01
	1880.0	18900	V	14.85	5.17	-4.7	15.33	33.01
			H	24.2	5.17	-4.7	24.68	33.01
	1902.5	19125	V	21.21	5.12	-4.72	21.61	33.01
			H	24.67	5.12	-4.72	25.07	33.01

BAND 2 / BW: 15M / QPSK / RB: 1,74

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	13.79	5.19	-4.69	14.3	33.01
			H	24.51	5.19	-4.69	25.02	33.01
	1880.0	18900	V	16.51	5.14	-4.71	16.94	33.01
			H	24.87	5.14	-4.71	25.3	33.01
	1902.5	19125	V	18.28	5.1	-4.74	18.64	33.01
			H	24.22	5.1	-4.74	24.58	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 15M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	19.02	5.22	-4.67	19.57	33.01
			H	25.26	5.22	-4.67	25.82	33.01
	1880.0	18900	V	15.51	5.17	-4.7	15.99	33.01
			H	24.84	5.17	-4.7	25.32	33.01
	1902.5	19125	V	21.8	5.12	-4.72	22.21	33.01
			H	25.24	5.12	-4.72	25.64	33.01

BAND 2 / BW: 15M / 16QAM / RB: 1,74

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	14.48	5.2	-4.68	14.99	33.01
			H	25.1	5.2	-4.69	25.61	33.01
	1880.0	18900	V	17.25	5.14	-4.71	17.68	33.01
			H	25.51	5.15	-4.71	25.95	33.01
	1902.5	19125	V	18.87	5.09	-4.74	19.23	33.01
			H	24.81	5.09	-4.74	25.16	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 20M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	18.36	5.22	-4.67	18.92	33.01
			H	24.69	5.22	-4.67	25.24	33.01
	1880.0	18900	V	13.56	5.18	-4.69	14.04	33.01
			H	24.39	5.18	-4.69	24.87	33.01
	1900.0	19100	V	20.59	5.13	-4.72	21.01	33.01
			H	24.96	5.13	-4.72	25.37	33.01

BAND 2 / BW: 20M / QPSK / RB: 1,99

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	12.55	5.18	-4.69	13.04	33.01
			H	24.21	5.18	-4.69	24.7	33.01
	1880.0	18900	V	16.47	5.16	-4.7	16.93	33.01
			H	24.8	5.14	-4.71	25.22	33.01
	1900.0	19100	V	18.6	5.1	-4.74	18.96	33.01
			H	24.38	5.1	-4.74	24.74	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 2 / BW: 20M /16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	19.08	5.22	-4.67	19.63	33.01
			H	25.19	5.22	-4.67	25.75	33.01
	1880.0	18900	V	14.11	5.18	-4.69	14.6	33.01
			H	24.97	5.18	-4.69	25.45	33.01
	1900.0	19100	V	21.31	5.13	-4.72	21.72	33.01
			H	25.6	5.13	-4.72	26.02	33.01

BAND 2 / BW: 20M / 16QAM / RB: 1,99

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	13.15	5.18	-4.69	13.64	33.01
			H	24.76	5.18	-4.69	25.25	33.01
	1880.0	18900	V	17.18	5.16	-4.7	17.64	33.01
			H	25.49	5.14	-4.71	25.91	33.01
	1900.0	19100	V	19.21	5.1	-4.74	19.57	33.01
			H	24.94	5.1	-4.74	25.3	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 5 / BW: 1.4M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 1.4M/ QPSK RB: 1,0	824.7	20407	V	22.87	3.76	-3.03	23.59	38.45
			H	17.65	3.76	-3.03	18.37	38.45
	836.5	20525	V	23.43	3.76	-3.06	24.13	38.45
			H	18.19	3.76	-3.06	18.89	38.45
	848.3	20643	V	22.4	3.77	-3.1	23.07	38.45
			H	16.42	3.77	-3.1	17.08	38.45

BAND 5 / BW: 1.4M / QPSK / RB: 1,5

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	23.01	3.76	-3.03	23.74	38.45
			H	17.63	3.76	-3.03	18.36	38.45
	836.5	20525	V	24.15	3.76	-3.07	24.84	38.45
			H	18.14	3.76	-3.07	18.84	38.45
	848.3	20643	V	22.43	3.77	-3.1	23.09	38.45
			H	16.48	3.77	-3.1	17.14	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 5 / BW: 1.4M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	23.4	3.76	-3.03	24.12	38.45
			H	18.03	3.75	-3.03	18.75	38.45
	836.5	20525	V	23.78	3.76	-3.07	24.48	38.45
			H	18.69	3.76	-3.06	19.39	38.45
	848.3	20643	V	22.91	3.77	-3.1	23.58	38.45
			H	16.98	3.77	-3.1	17.64	38.45

BAND 5 / BW: 1.4M / 16QAM / RB: 1,5

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	22.92	3.76	-3.03	23.65	38.45
			H	17.63	3.76	-3.03	18.35	38.45
	836.5	20525	V	24.01	3.76	-3.07	24.71	38.45
			H	18.94	3.76	-3.07	19.64	38.45
	848.3	20643	V	22.98	3.77	-3.1	23.64	38.45
			H	17.12	3.77	-3.1	17.79	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 5 / BW: 3M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	22.7	3.76	-3.03	23.42	38.45
			H	17.12	3.75	-3.03	17.84	38.45
	836.5	20525	V	22.66	3.76	-3.06	23.36	38.45
			H	17.64	3.76	-3.06	18.34	38.45
	847.5	20635	V	22.23	3.77	-3.1	22.9	38.45
			H	16.29	3.77	-3.1	16.96	38.45

BAND 5 / BW: 3M / QPSK / RB: 1,14

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	21.79	3.76	-3.03	22.51	38.45
			H	16.53	3.76	-3.03	17.25	38.45
	836.5	20525	V	23.2	3.76	-3.07	23.9	38.45
			H	18.07	3.76	-3.07	18.76	38.45
	847.5	20635	V	22.31	3.77	-3.1	22.98	38.45
			H	16.41	3.77	-3.11	17.07	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 5 / BW: 3M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	23.41	3.75	-3.03	24.14	38.45
			H	17.67	3.75	-3.03	18.4	38.45
	836.5	20525	V	23.36	3.76	-3.06	24.06	38.45
			H	18.42	3.76	-3.06	19.11	38.45
	847.5	20635	V	22.78	3.77	-3.1	23.45	38.45
			H	16.93	3.77	-3.1	17.6	38.45

BAND 5 / BW: 3M / 16QAM / RB: 1,14

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	22.67	3.76	-3.04	23.39	38.45
			H	17.04	3.76	-3.03	17.76	38.45
	836.5	20525	V	23.95	3.76	-3.07	24.64	38.45
			H	18.93	3.76	-3.07	19.62	38.45
	847.5	20635	V	22.86	3.77	-3.11	23.52	38.45
			H	17.02	3.77	-3.1	17.68	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 5 / BW: 5M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	22.56	3.75	-3.03	23.28	38.45
			H	17.28	3.75	-3.03	18.01	38.45
	836.5	20525	V	22.57	3.76	-3.06	23.28	38.45
			H	17.59	3.76	-3.06	18.29	38.45
	846.5	20625	V	22.3	3.77	-3.09	22.98	38.45
			H	16.49	3.76	-3.09	17.17	38.45

BAND 5 / BW: 5M / QPSK / RB: 1,24

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	21.78	3.76	-3.04	22.5	38.45
			H	16.76	3.76	-3.04	17.47	38.45
	836.5	20525	V	23.38	3.76	-3.07	24.07	38.45
			H	18.22	3.76	-3.07	18.91	38.45
	846.5	20625	V	22.33	3.77	-3.1	22.99	38.45
			H	16.46	3.77	-3.1	17.12	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 5 / BW: 5M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	23.02	3.75	-3.03	23.74	38.45
			H	17.69	3.75	-3.03	18.41	38.45
	836.5	20525	V	23.34	3.76	-3.06	24.04	38.45
			H	18.43	3.76	-3.06	19.13	38.45
	846.5	20625	V	22.81	3.76	-3.09	23.49	38.45
			H	17.1	3.77	-3.09	17.77	38.45

BAND 5 / BW: 5M / 16QAM / RB: 1,24

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	22.3	3.76	-3.04	23.01	38.45
			H	17.14	3.76	-3.04	17.86	38.45
	836.5	20525	V	24.05	3.76	-3.07	24.74	38.45
			H	19	3.76	-3.07	19.69	38.45
	846.5	20625	V	23.06	3.77	-3.1	23.72	38.45
			H	17.24	3.77	-3.1	17.91	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 5 / BW: 10M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	23.25	3.75	-3.03	23.97	38.45
			H	17.88	3.75	-3.03	18.61	38.45
	836.5	20525	V	22.41	3.76	-3.05	23.11	38.45
			H	17.34	3.76	-3.05	18.04	38.45
	844.0	20600	V	24.33	3.76	-3.08	25.02	38.45
			H	18.12	3.76	-3.08	18.8	38.45

BAND 5 / BW: 10M / QPSK / RB: 1,49

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	22.96	3.76	-3.05	23.67	38.45
			H	18.19	3.76	-3.06	18.89	38.45
	836.5	20525	V	23.39	3.76	-3.08	24.08	38.45
			H	17.7	3.76	-3.08	18.38	38.45
	844.0	20600	V	22.56	3.77	-3.1	23.23	38.45
			H	16.59	3.77	-3.1	17.25	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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BAND 5 / BW: 10M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	23.37	3.75	-3.03	24.1	38.45
			H	17.97	3.76	-3.03	18.69	38.45
	836.5	20525	V	23.09	3.76	-3.05	23.79	38.45
			H	18.14	3.76	-3.05	18.85	38.45
	844.0	20600	V	24.55	3.76	-3.08	25.23	38.45
			H	18.89	3.76	-3.08	19.57	38.45

BAND 5 / BW: 10M / 16QAM / RB: 1,49

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	23.38	3.76	-3.06	24.09	38.45
			H	18.38	3.76	-3.05	19.09	38.45
	836.5	20525	V	23.96	3.76	-3.08	24.65	38.45
			H	18.38	3.76	-3.08	19.06	38.45
	844.0	20600	V	23.49	3.77	-3.1	24.16	38.45
			H	17.44	3.77	-3.1	18.1	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049 (99%)

8.2. Test Set-up:

Refer to section 6.2 in this report

8.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

Refer to next pages.

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99% Bandwidth

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.247
	836.60	190	0.247
	848.80	251	0.245

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 1900	1850.20	512	0.243
	1880.00	661	0.245
	1909.80	810	0.250

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.244
	836.60	190	0.243
	848.80	251	0.246

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.242
	1880.00	661	0.246
	1909.80	810	0.244

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.250
	836.60	190	0.249
	848.80	251	0.242

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.248
	1880.00	661	0.252
	1909.80	810	0.244

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.2227
	1880.00	9400	4.2045
	1907.60	9538	4.1969

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.2035
	836.00	4183	4.2262
	846.60	4233	4.1913

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.40	9262	4.2148
	1880.00	9400	4.1958
	1907.60	9538	4.2052

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1996
	836.60	4183	4.2324
	846.60	4233	4.1864

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.40	9262	4.1834
	1880.00	9400	4.1964
	1907.60	9538	4.1987

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1994
	836.60	4183	4.2321
	846.60	4233	4.1863

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0)	1850.7	18607	1.0939
	1880.0	18900	1.0908
	1909.3	19193	1.0990

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 2 (16QAM RB Number: 6 Offset: 0)	1850.7	18607	1.0917
	1880.0	18900	1.0936
	1909.3	19193	1.1027

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 2 (QPSK RB Number: 15 Offset: 0)	1851.5	18615	2.7106
	1880.0	18900	2.7145
	1908.5	19185	2.6982

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 2 (16QAM RB Number: 15 Offset: 0)	1851.5	18615	2.7055
	1880.0	18900	2.7007
	1908.5	19185	2.6999

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0)	1852.5	18625	4.5265
	1880.0	18900	4.5139
	1907.5	19175	4.5344

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 2 (16QAM RB Number: 25 Offset: 0)	1852.5	18625	4.5216
	1880.0	18900	4.5083
	1907.5	19175	4.5256

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0)	1855.0	18650	8.9920
	1880.0	18900	8.9767
	1905.0	19150	8.9906

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 2 (16QAM RB Number: 50 Offset: 0)	1855.0	18650	8.9750
	1880.0	18900	8.9507
	1905.0	19150	8.9911

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0)	1857.5	18675	13.4789
	1880.0	18900	13.4170
	1902.5	19125	13.5229

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 2 (16QAM RB Number: 75 Offset: 0)	1857.5	18675	13.4688
	1880.0	18900	13.4897
	1902.5	19125	13.5330

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0)	1860.0	18700	17.9114
	1880.0	18900	17.9151
	1900.0	19100	18.0293

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 2 (16QAM RB Number: 100 Offset: 0)	1860.0	18700	17.9546
	1880.0	18900	17.8620
	1900.0	19100	18.0014

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0)	824.7	20407	1.0886
	836.5	20525	1.0980
	848.3	20643	1.0966

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 5 (16QAM RB Number: 6 Offset: 0)	824.7	20407	1.0901
	836.5	20525	1.0964
	848.3	20643	1.1026

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0)	825.5	20415	2.7017
	836.5	20525	2.7049
	848.3	20643	2.7053

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 5 (16QAM RB Number: 15 Offset: 0)	825.5	20415	2.6969
	836.5	20525	2.6966
	848.3	20643	2.7041

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0)	826.5	20425	4.5080
	836.5	20525	4.5307
	847.5	20625	4.5311

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 5 (16QAM RB Number: 25 Offset: 0)	826.5	20425	4.5107
	836.5	20525	4.5272
	847.5	20625	4.5111

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0)	829.0	20450	8.9716
	836.5	20525	9.0197
	844.0	20600	8.9546

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 5 (16QAM RB Number: 50 Offset: 0)	829.0	20450	8.9594
	836.5	20525	9.0510
	844.0	20600	8.9498

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99% Bandwidth Test Data

Figure 8-1: GSM 850 Channel Low

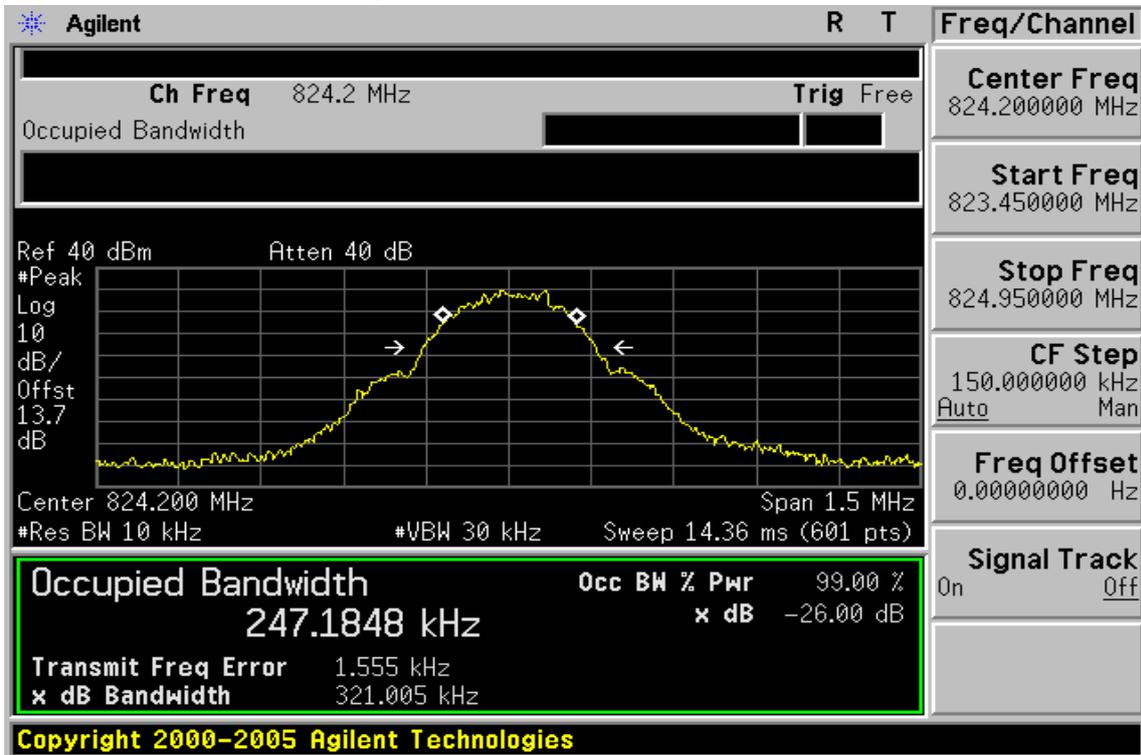
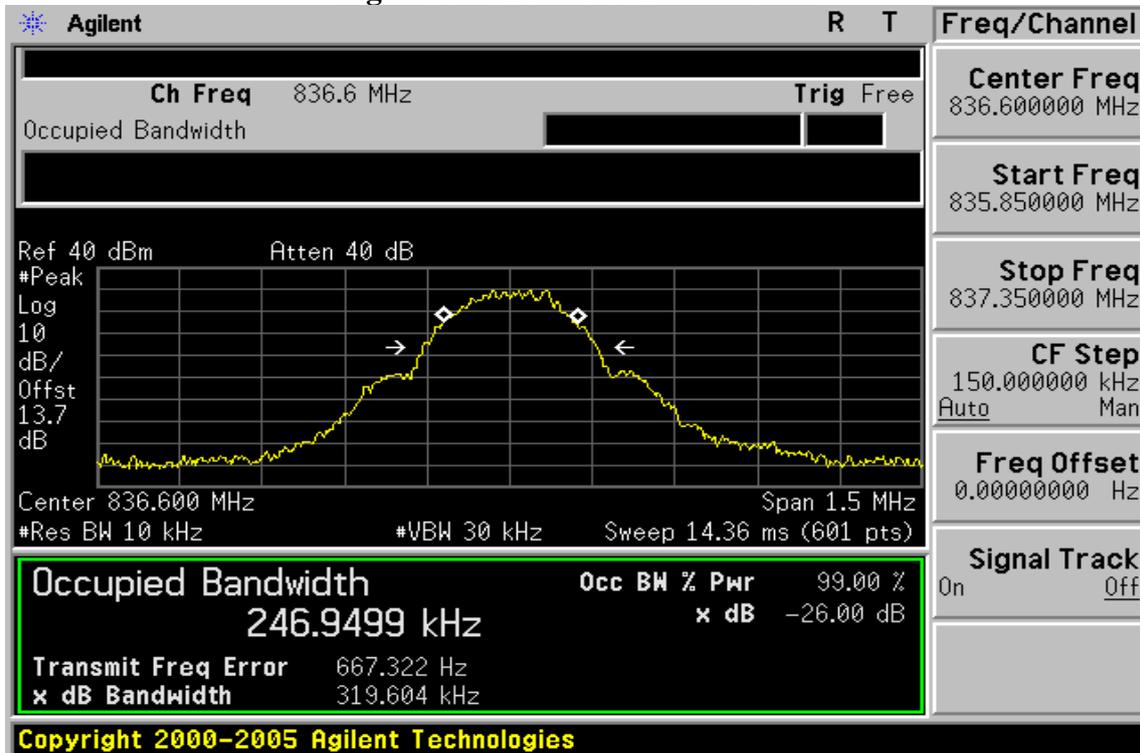


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

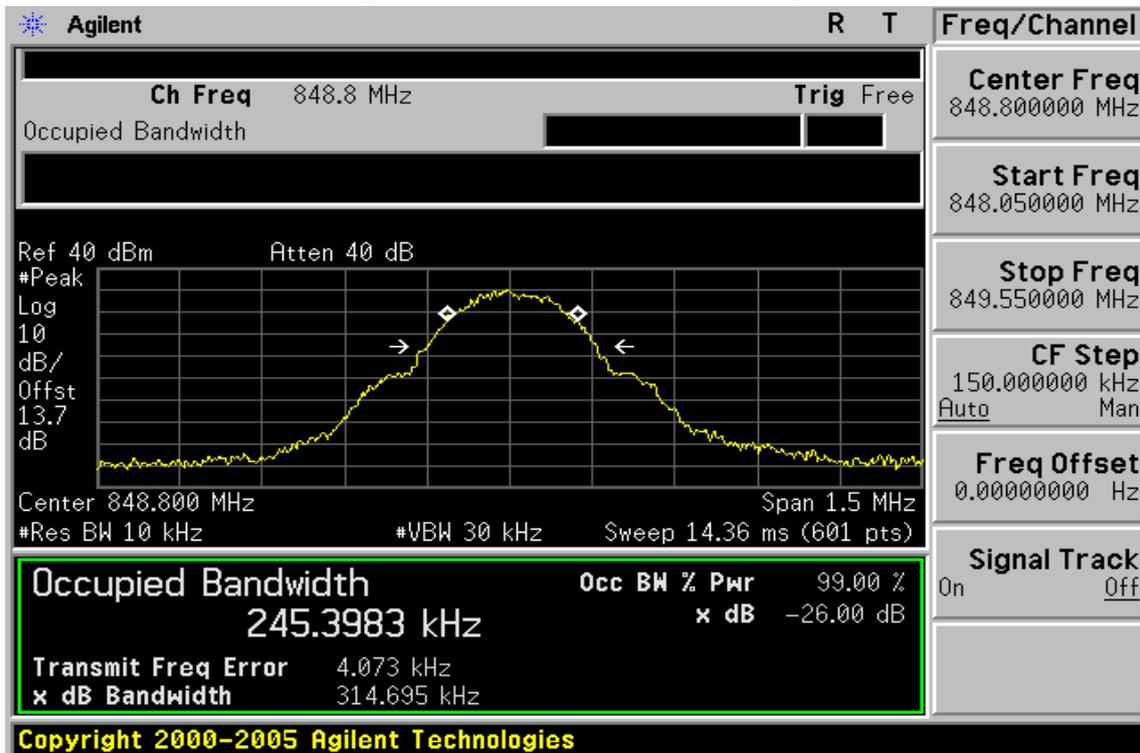
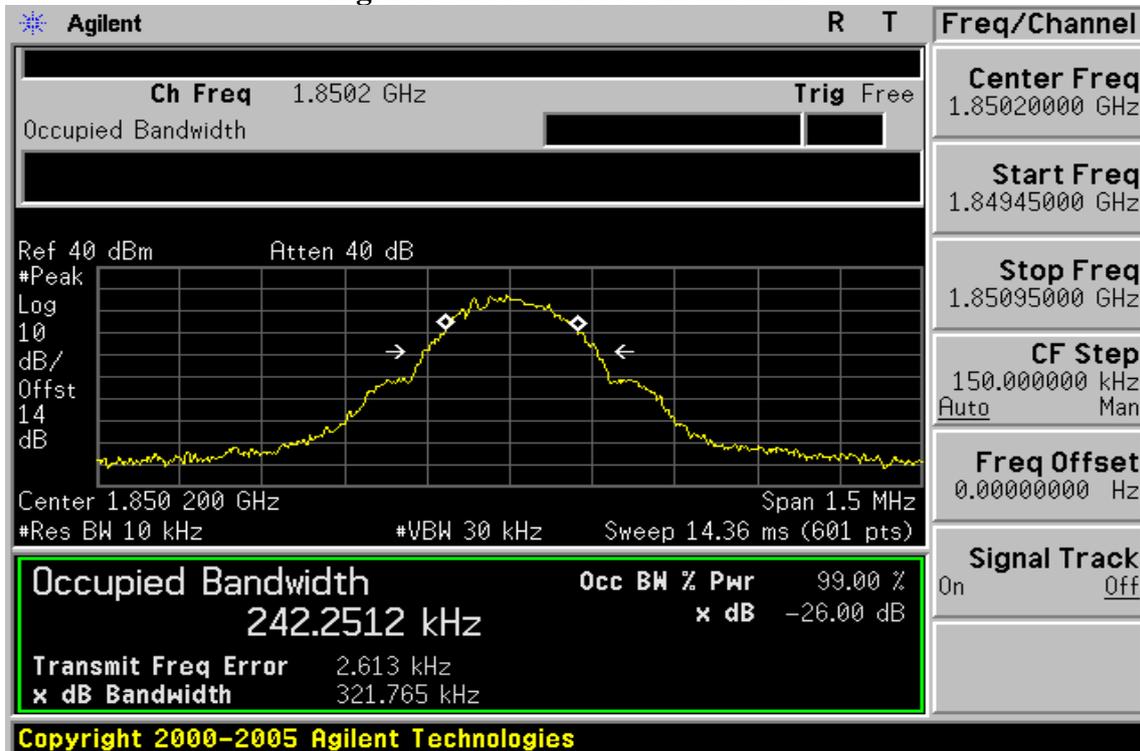


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

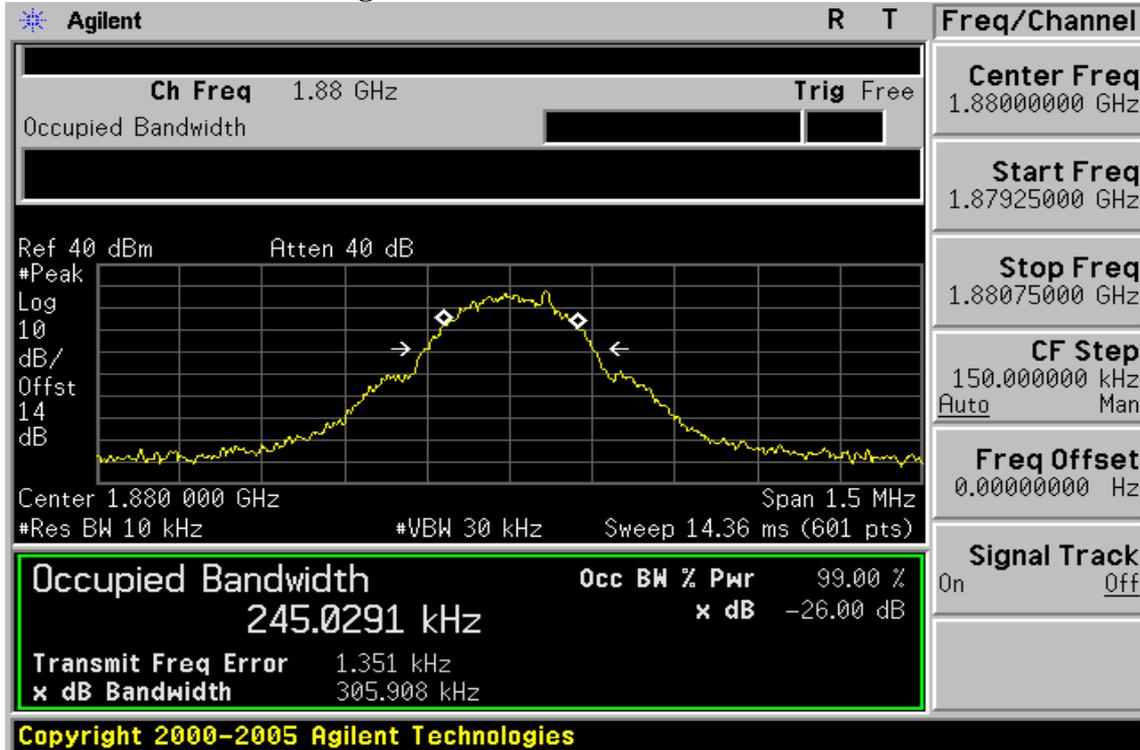
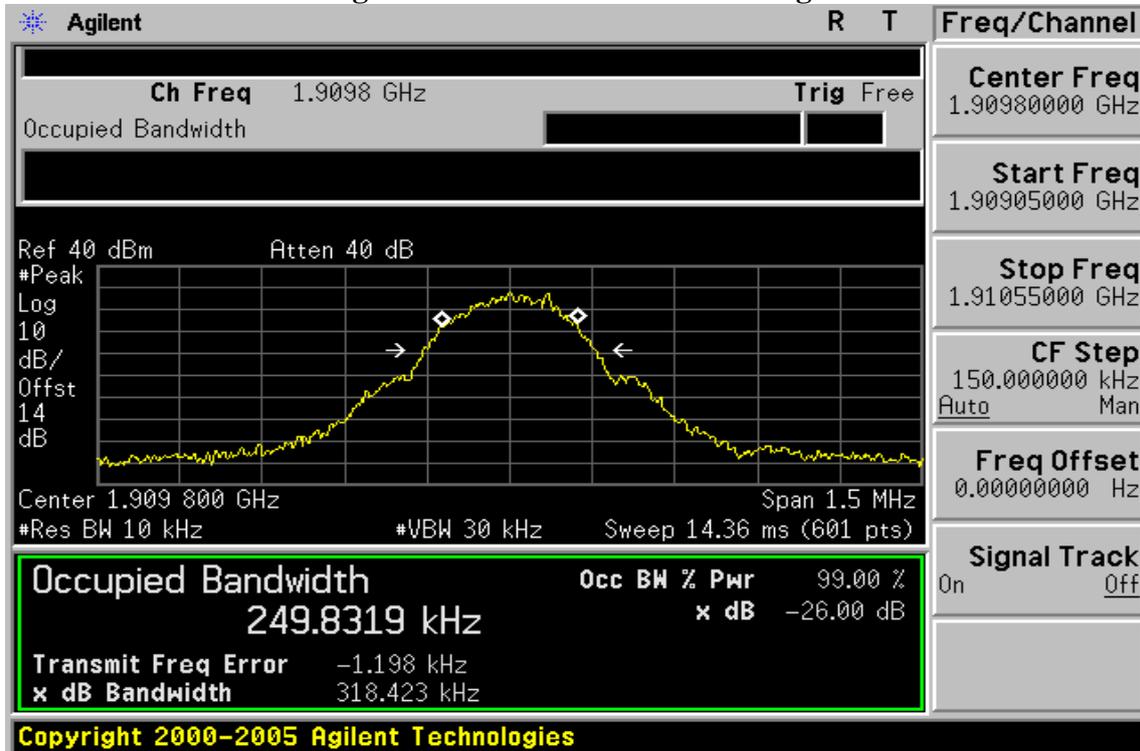


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

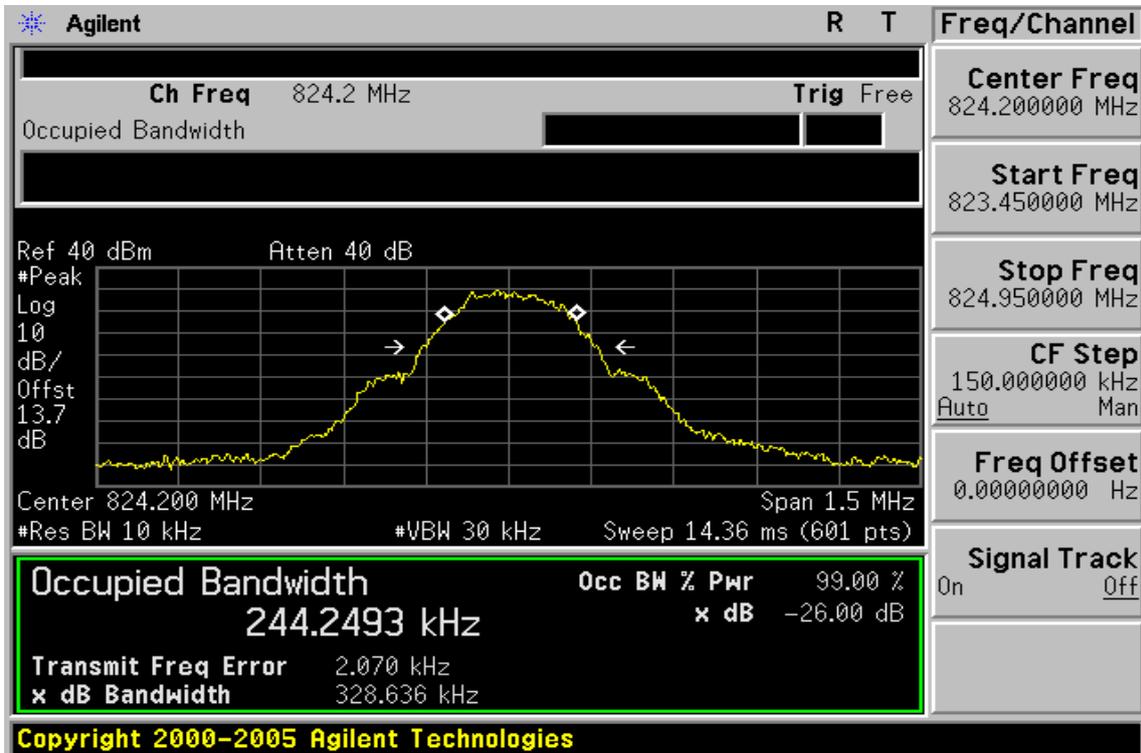
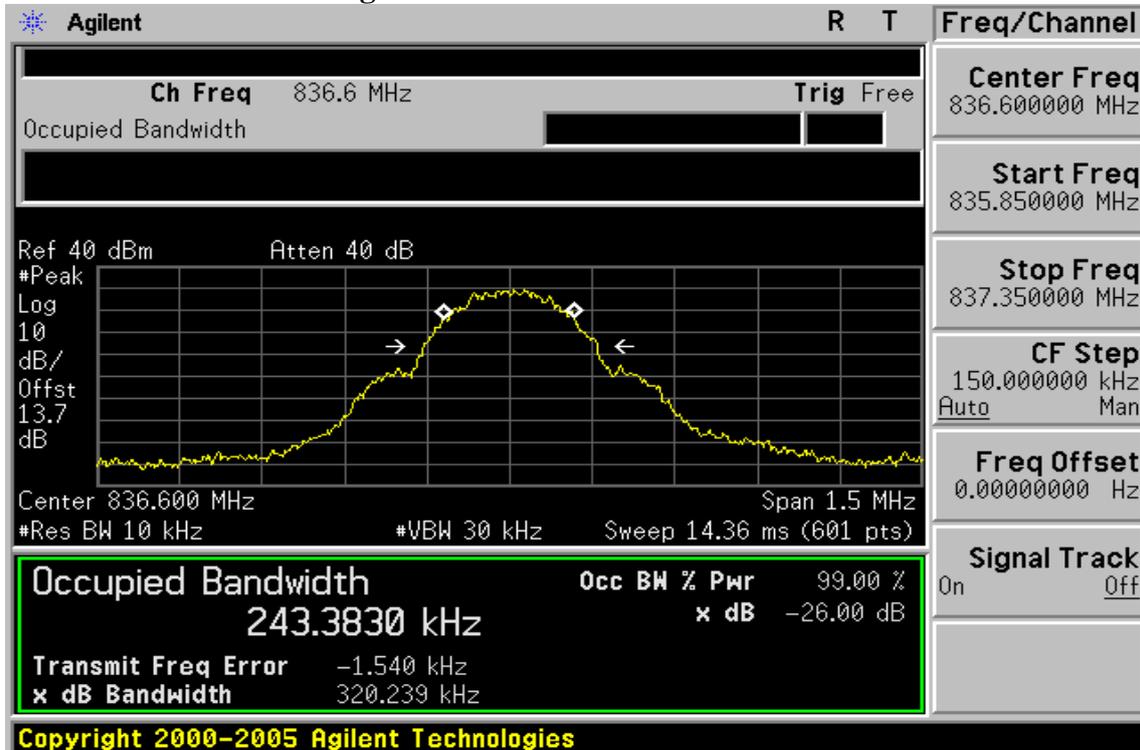


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

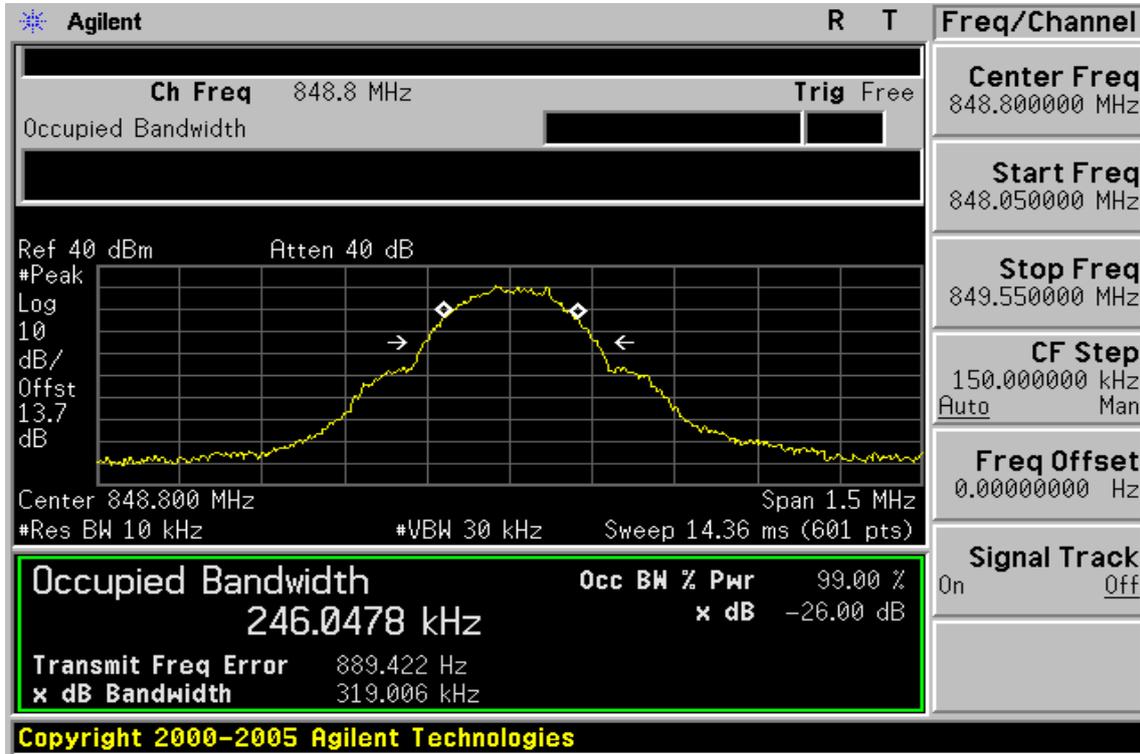
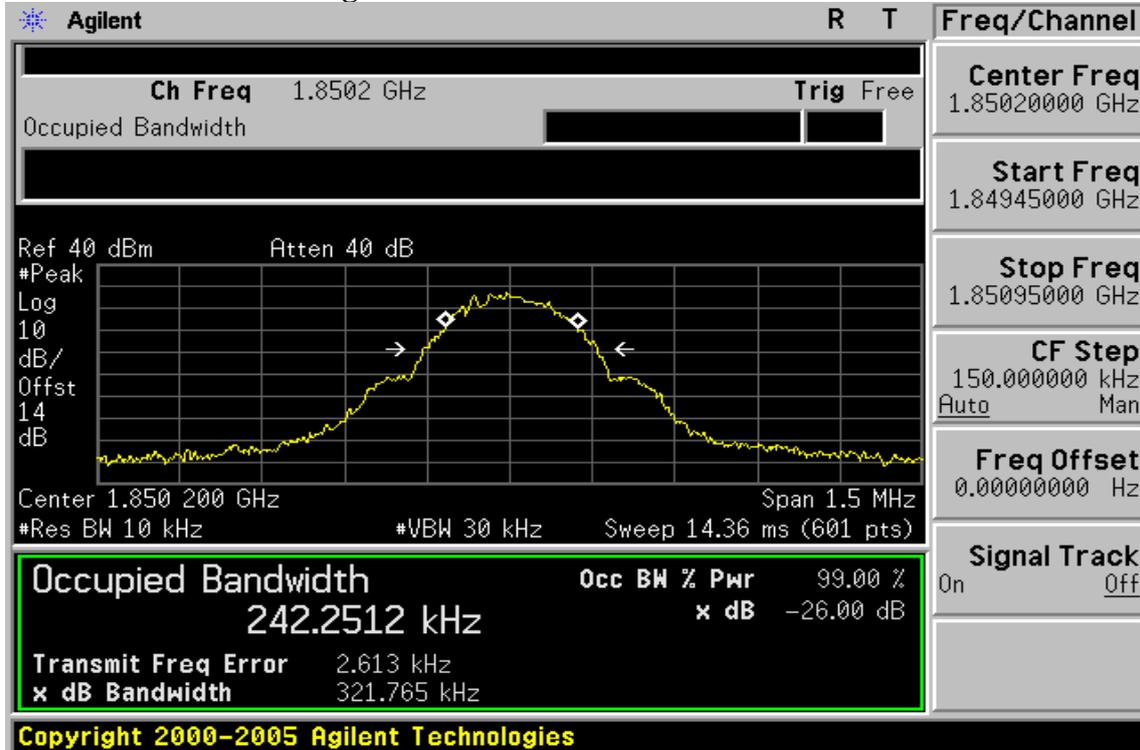


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11: GPRS 1900 Channel Mid

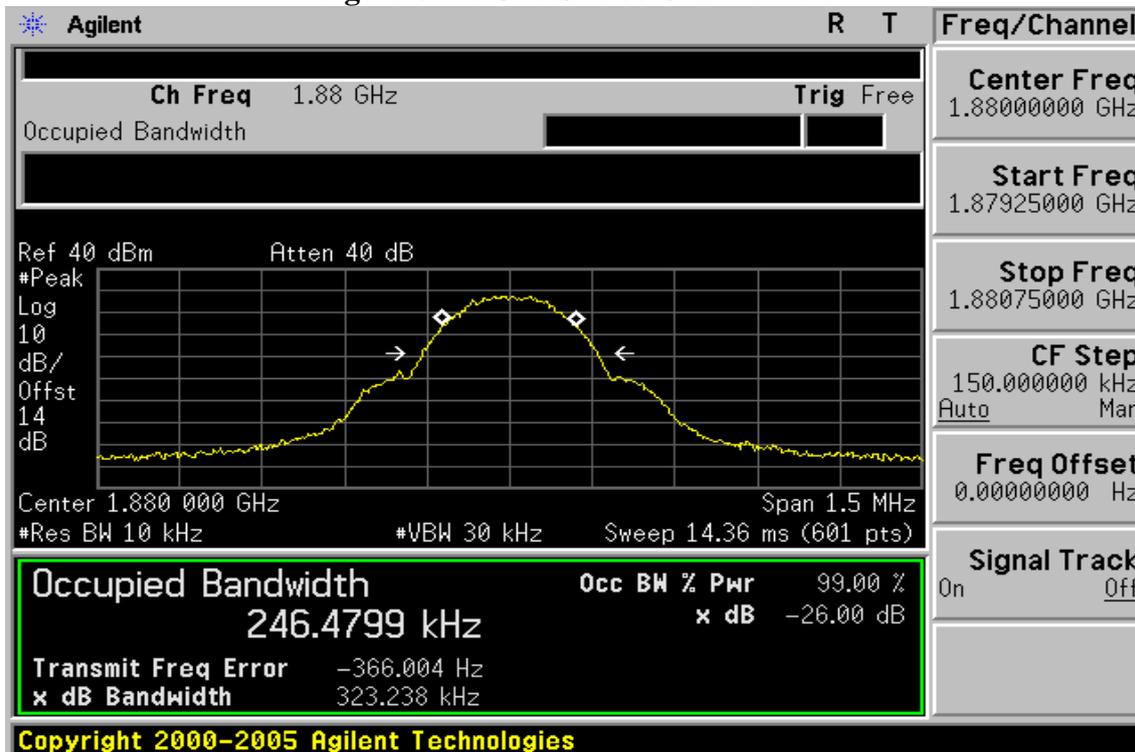
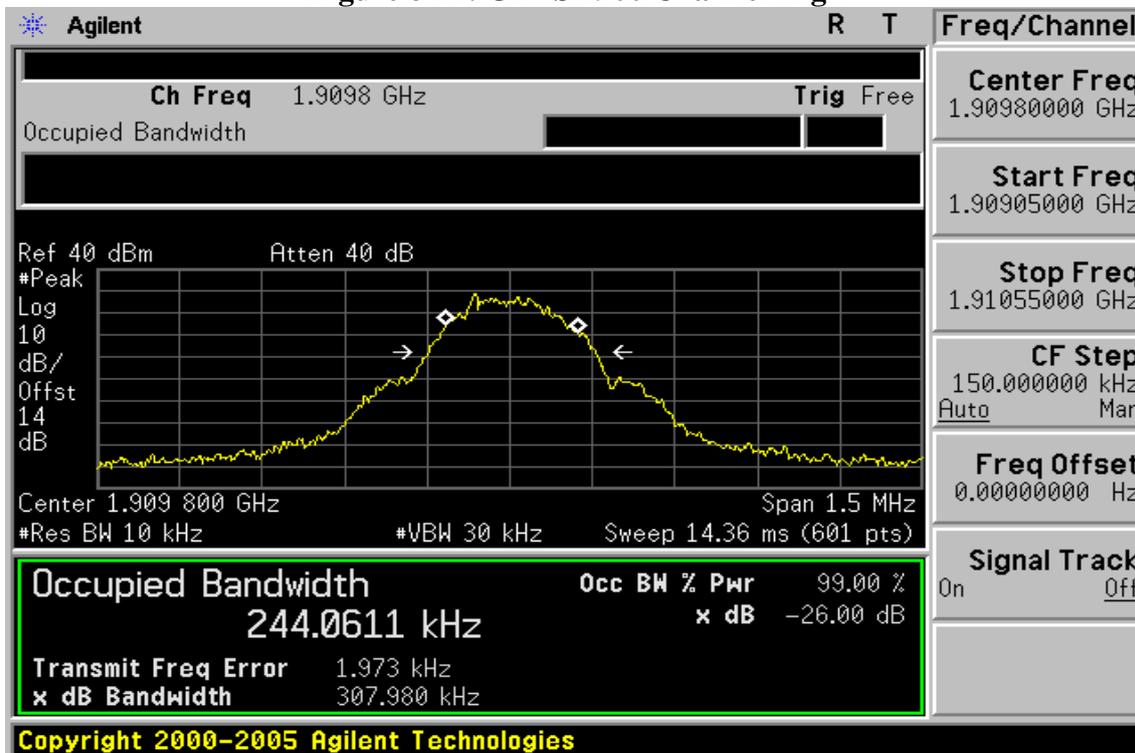


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

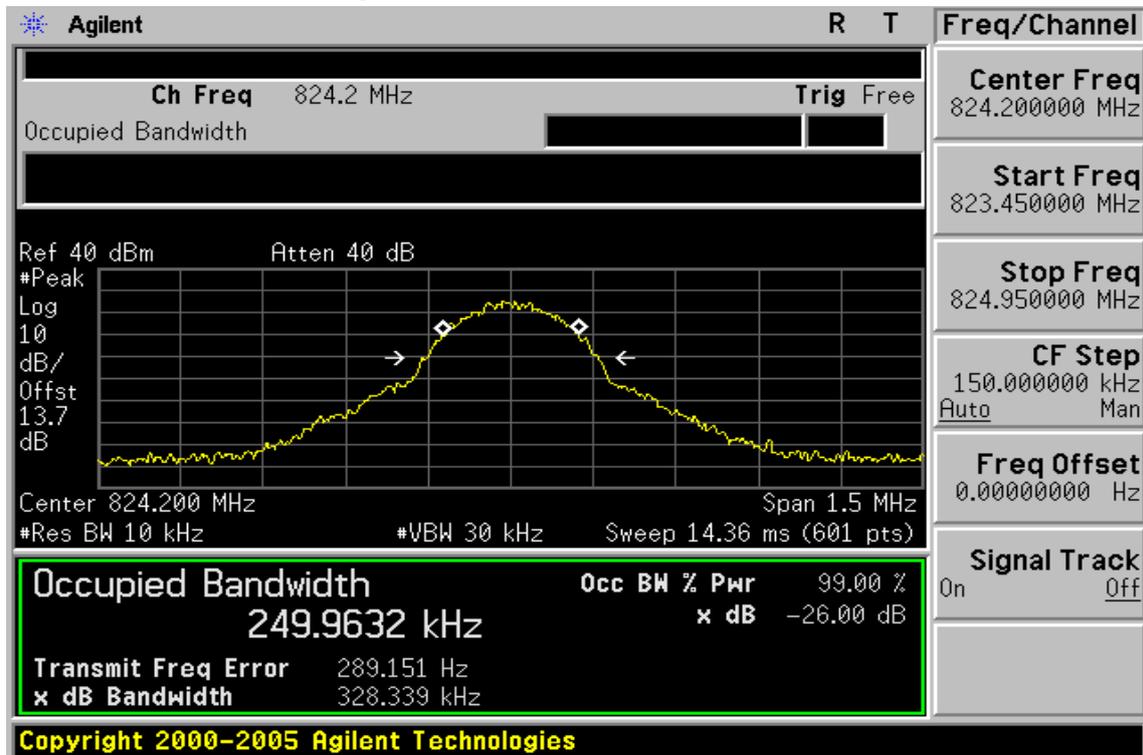
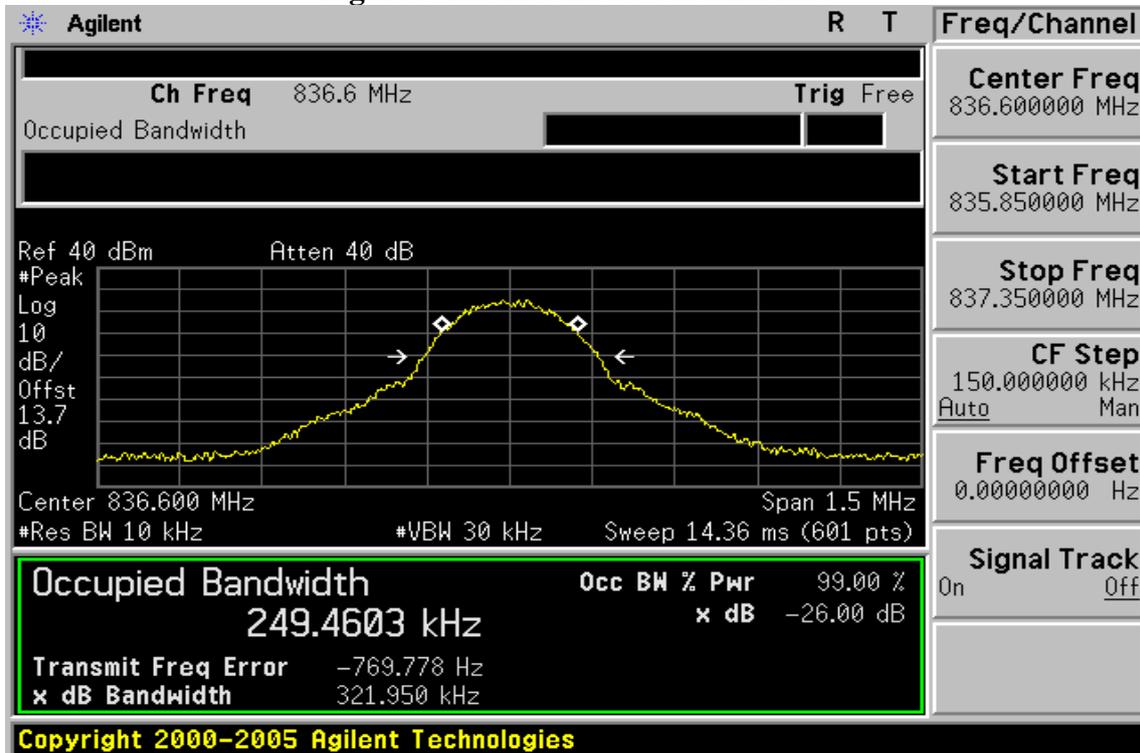


Figure 8-14: EDGE 850 Channel Mid



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GPRS Figure 8-15: EDGE 850 Channel High

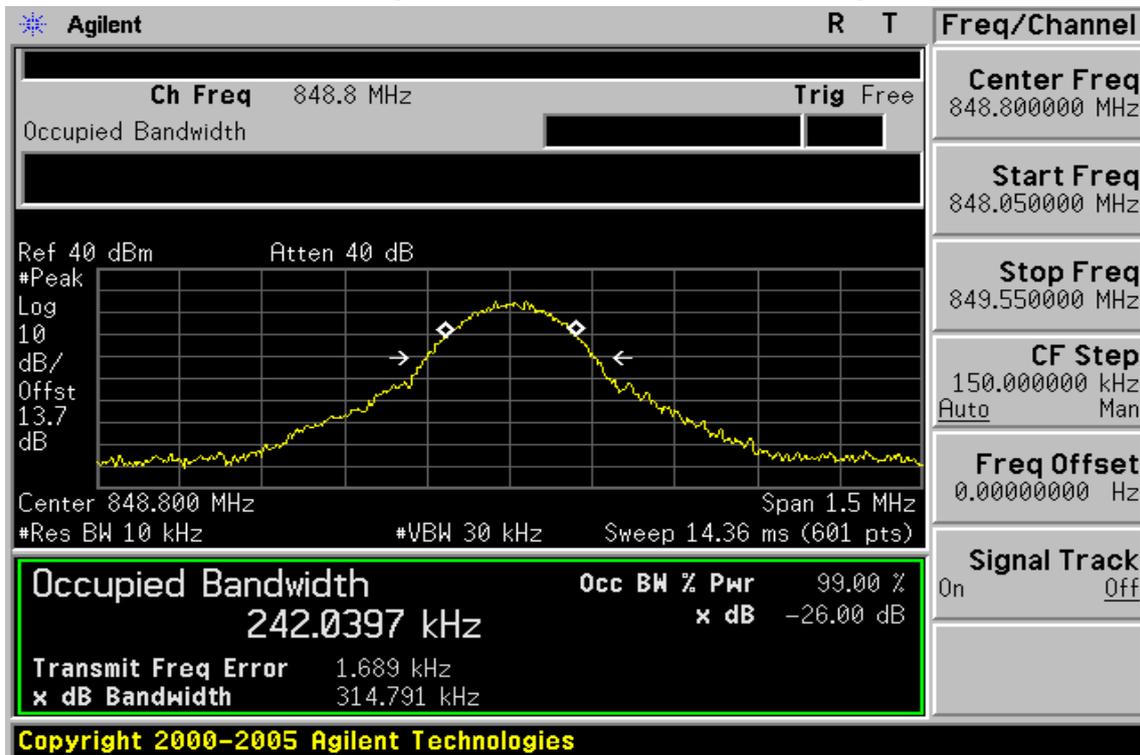
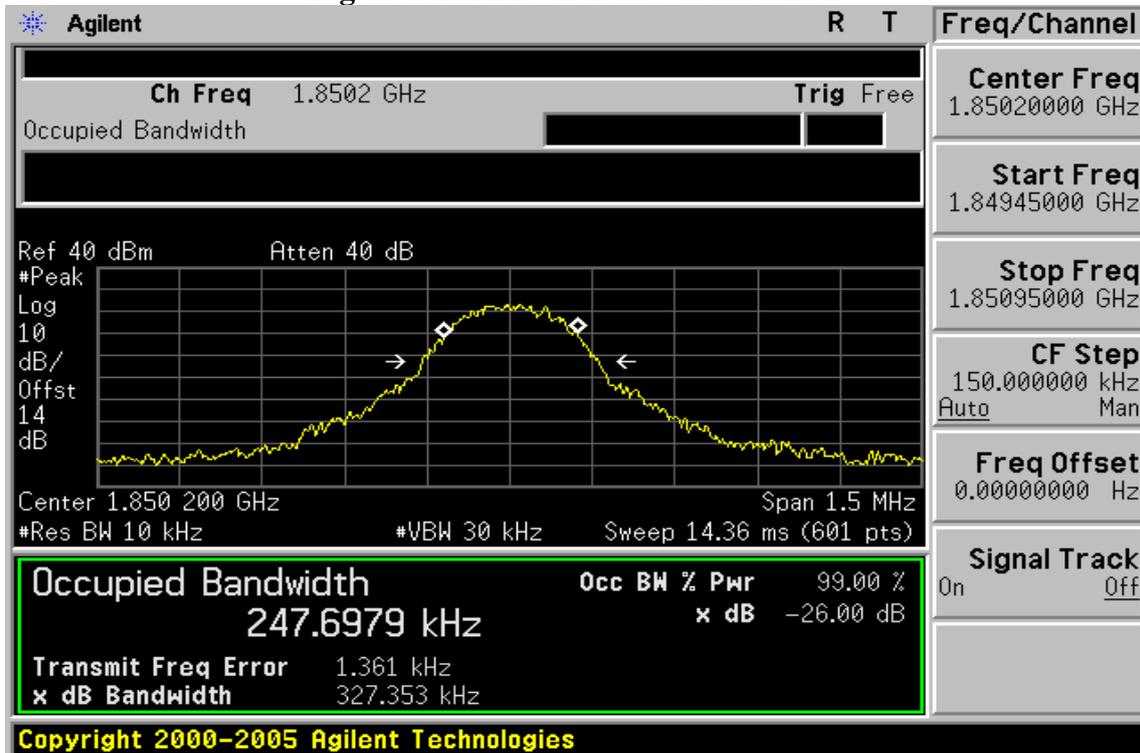


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17: EDGE 1900 Channel Mid

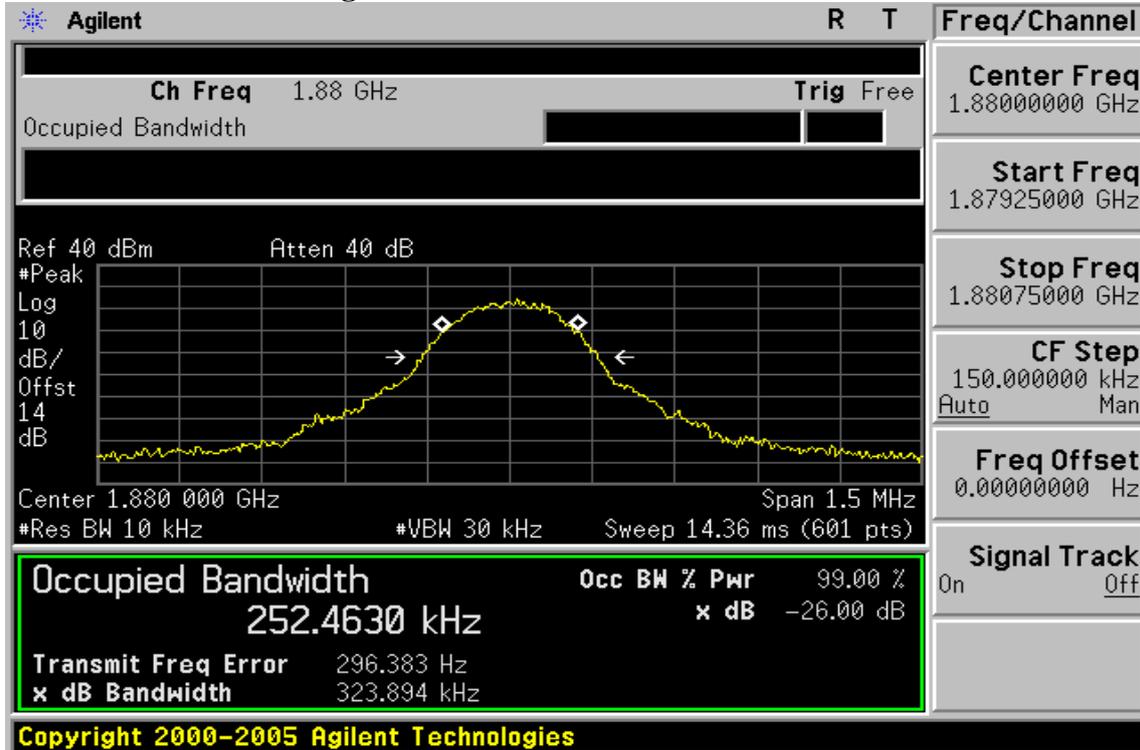
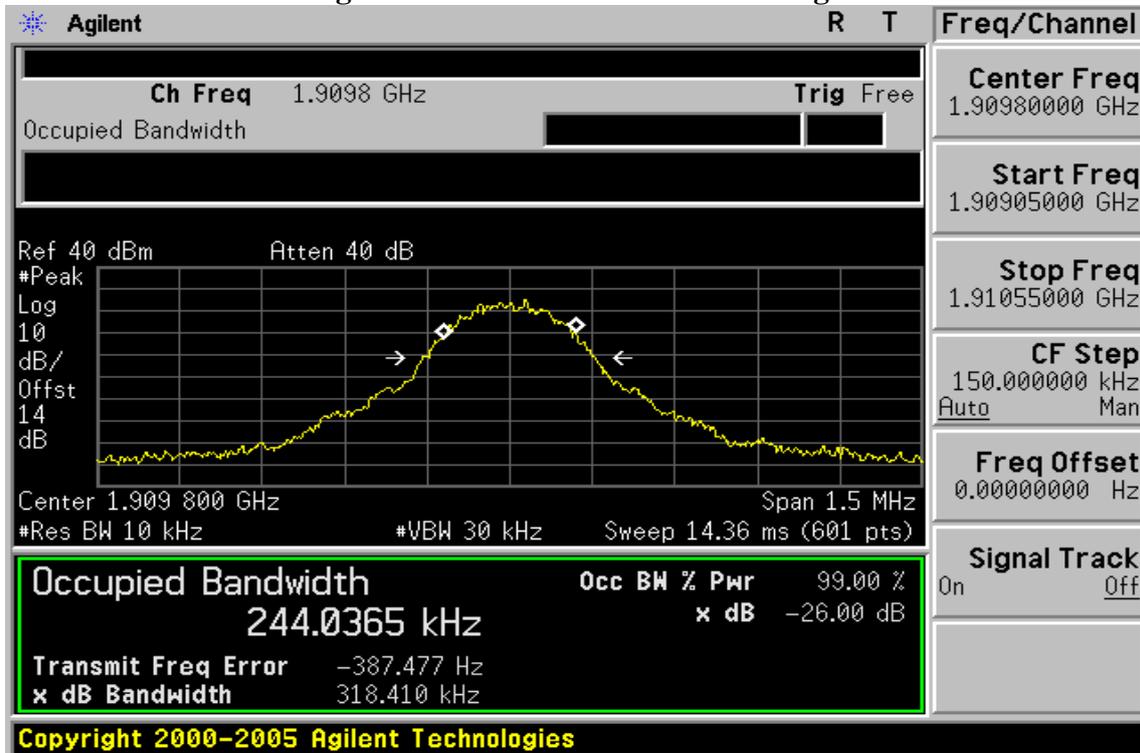


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: WCDMA II Channel Low

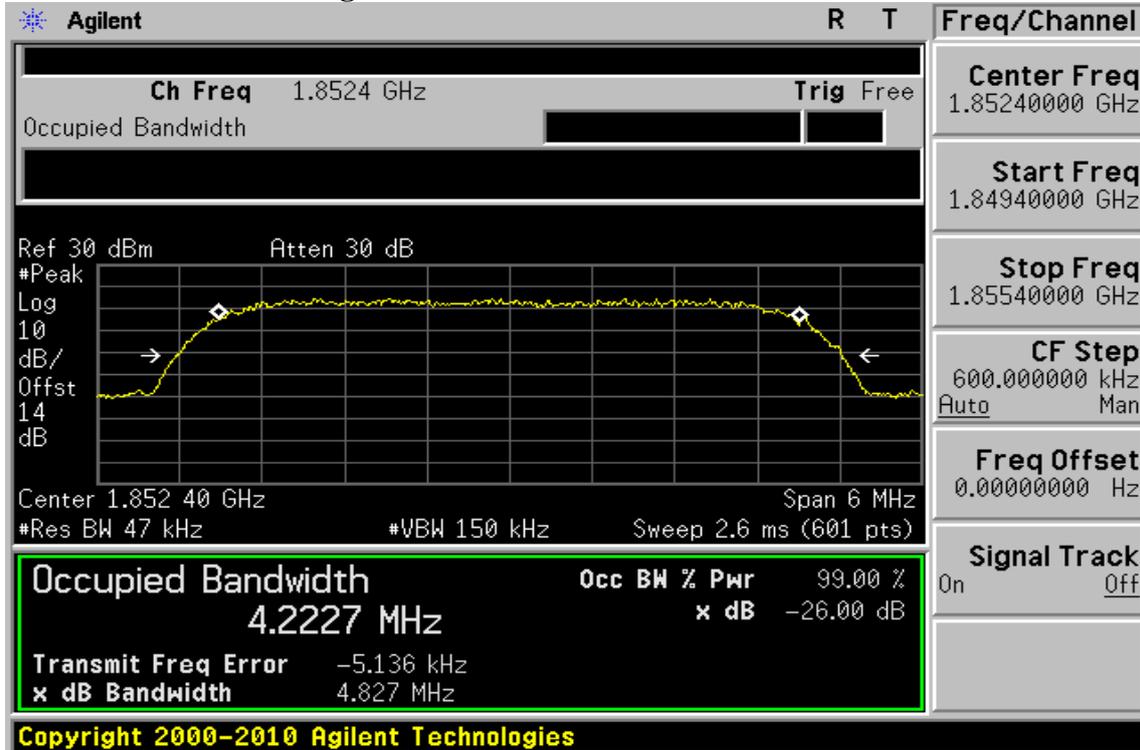
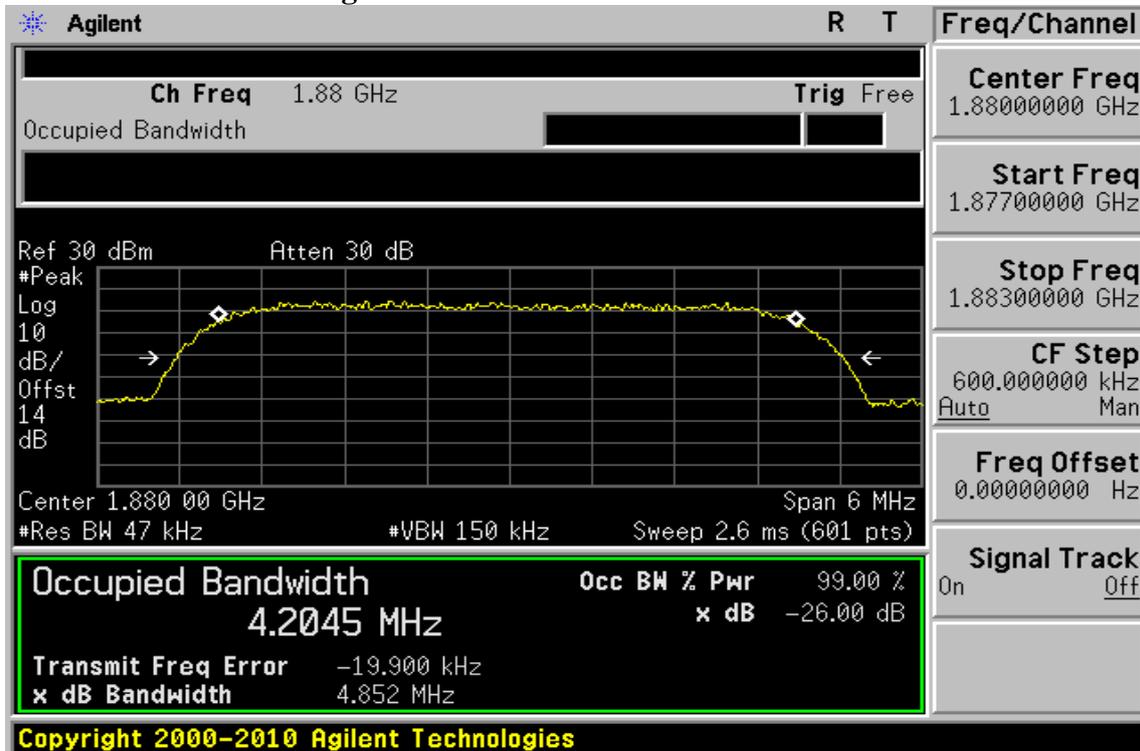


Figure 8-20: WCDMA II Channel Mid



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Figure 8-21: WCDMA II Channel High

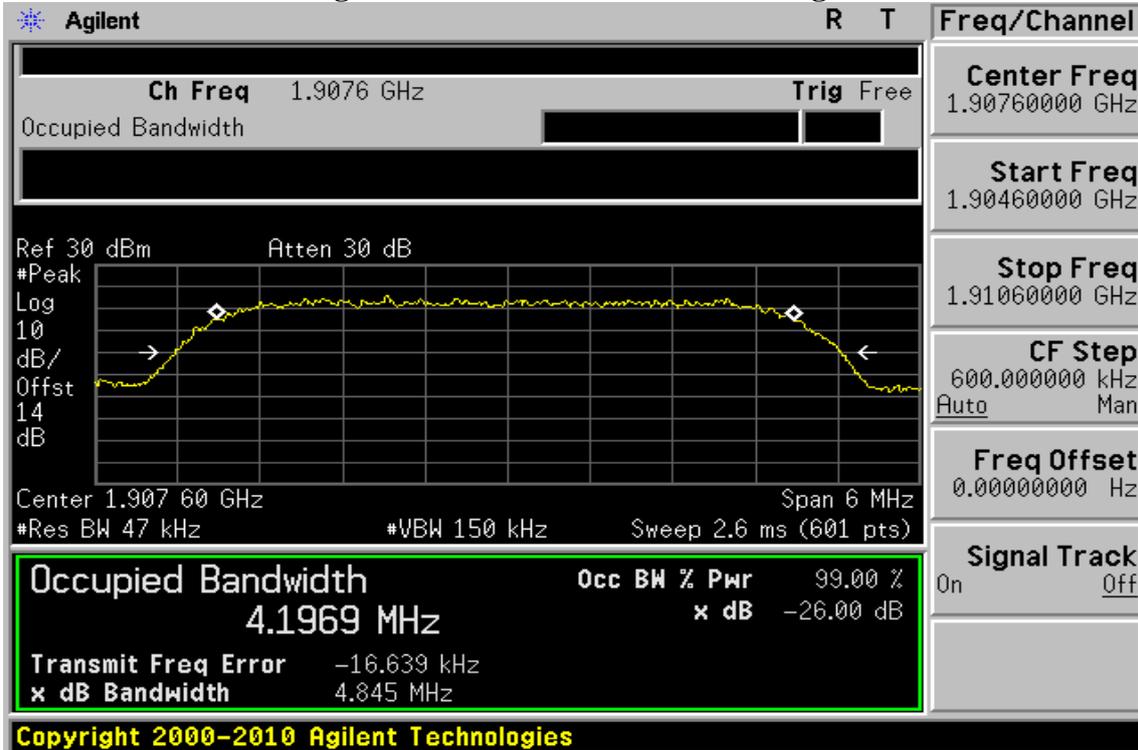
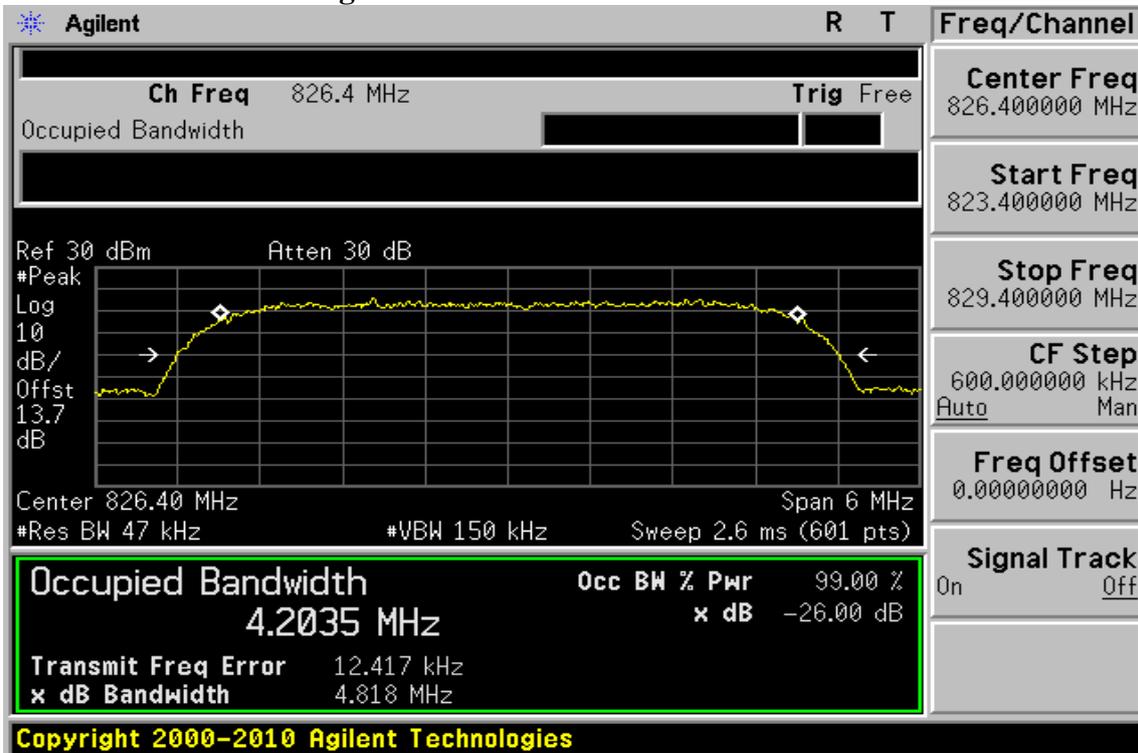


Figure 8-23: WCDMA V Channel Low



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Figure 8-24: WCDMA V Channel Mid

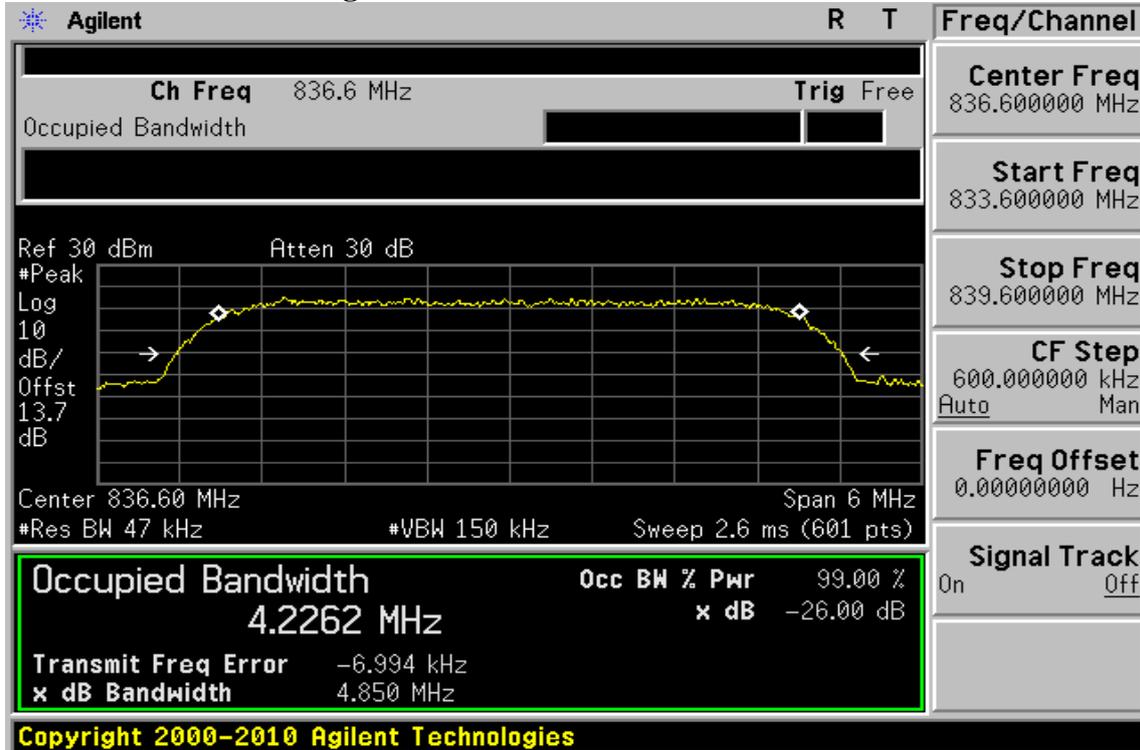
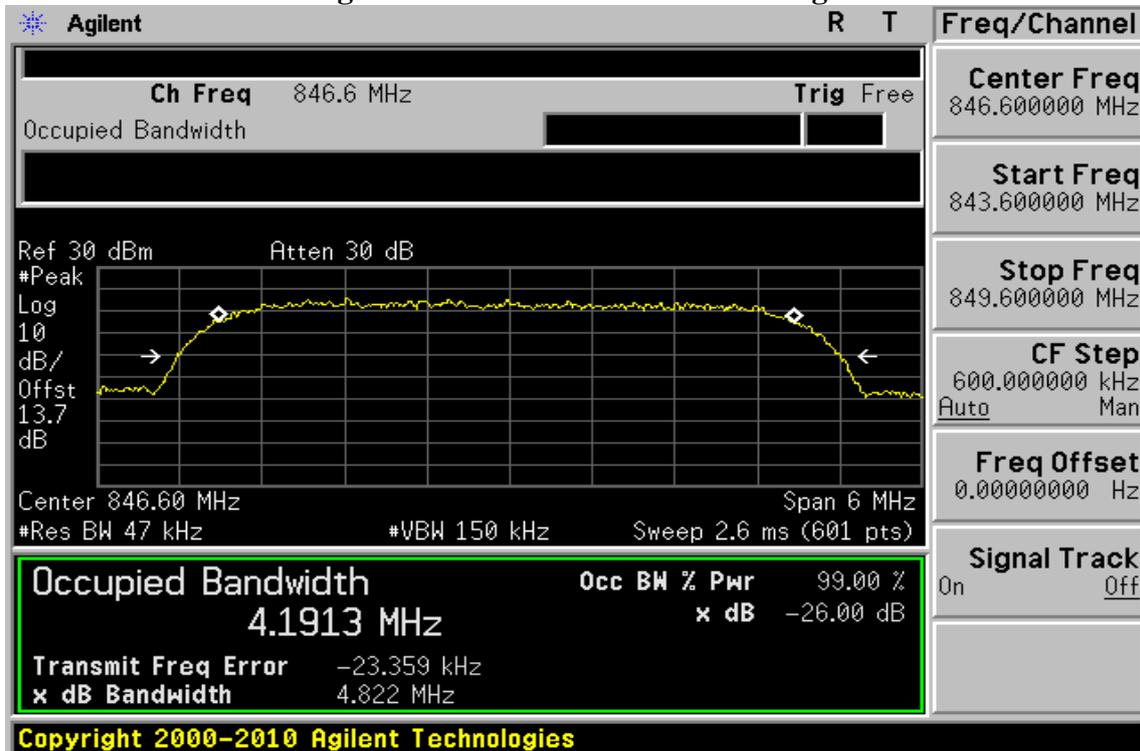


Figure 8-25: WCDMA V Channel High



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Figure 8-26: HSDPA II Channel Low

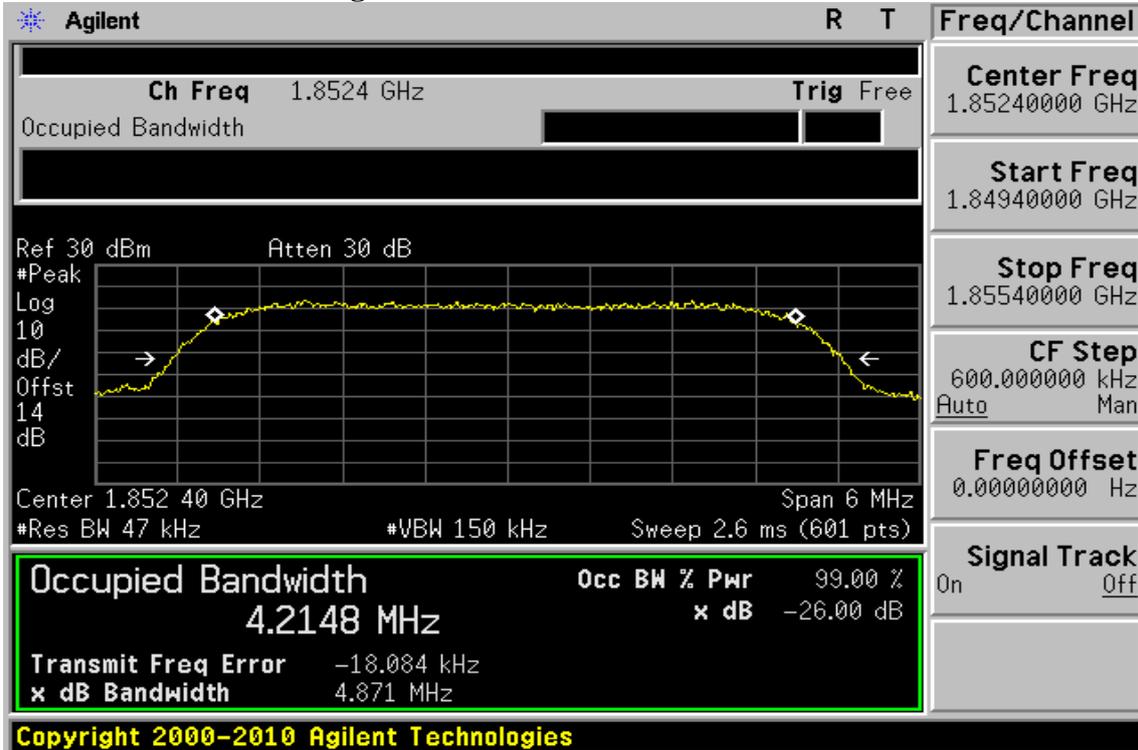
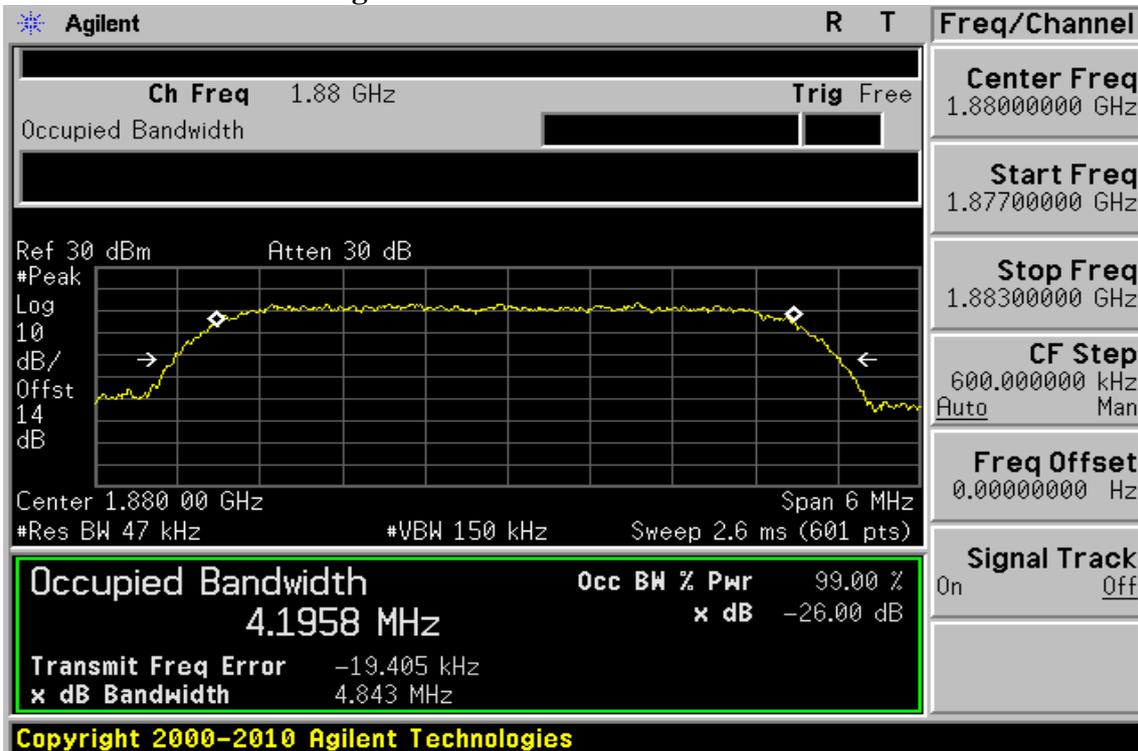


Figure 8-27: HSDPA II Channel Mid



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Figure 8-28: HSDPA II Channel High

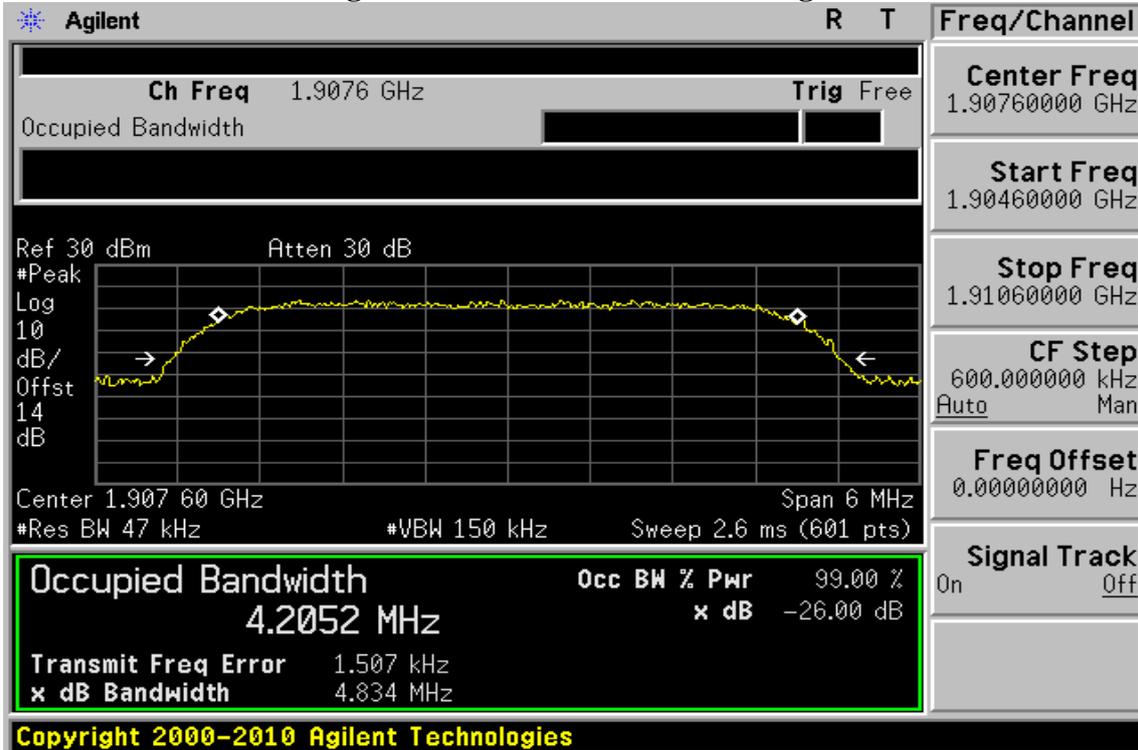
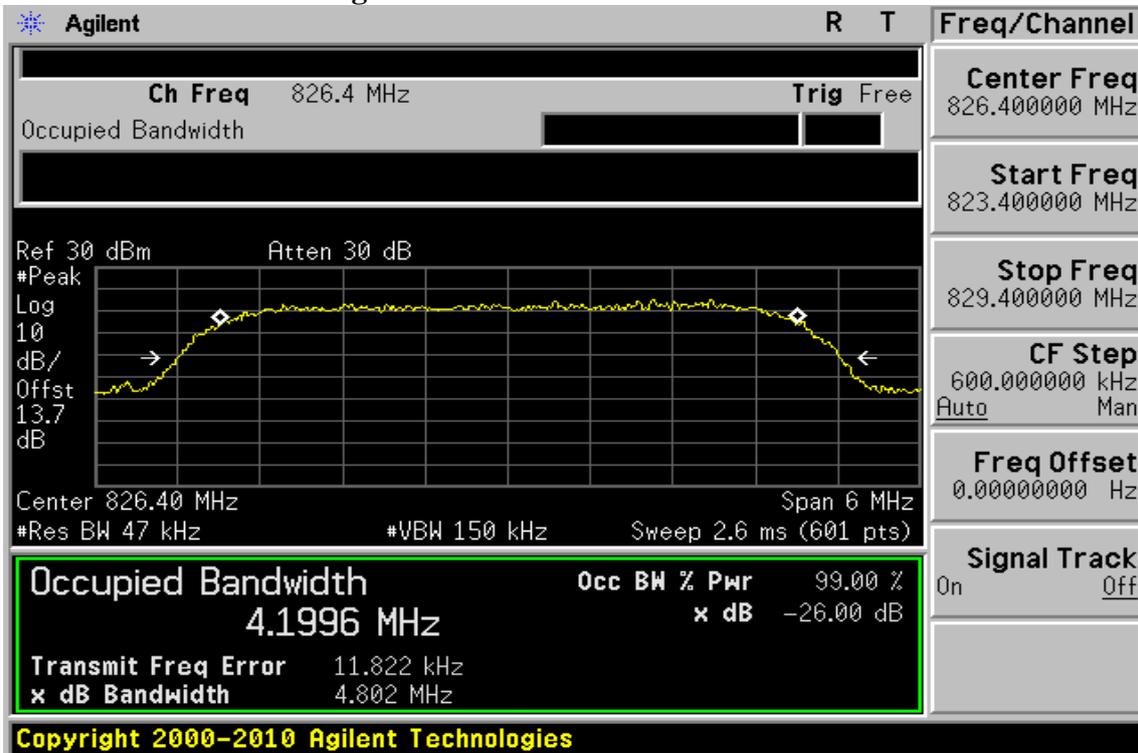


Figure 8-29: HSDPA V Channel Low



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Figure 8-30: HSDPA V Channel Mid

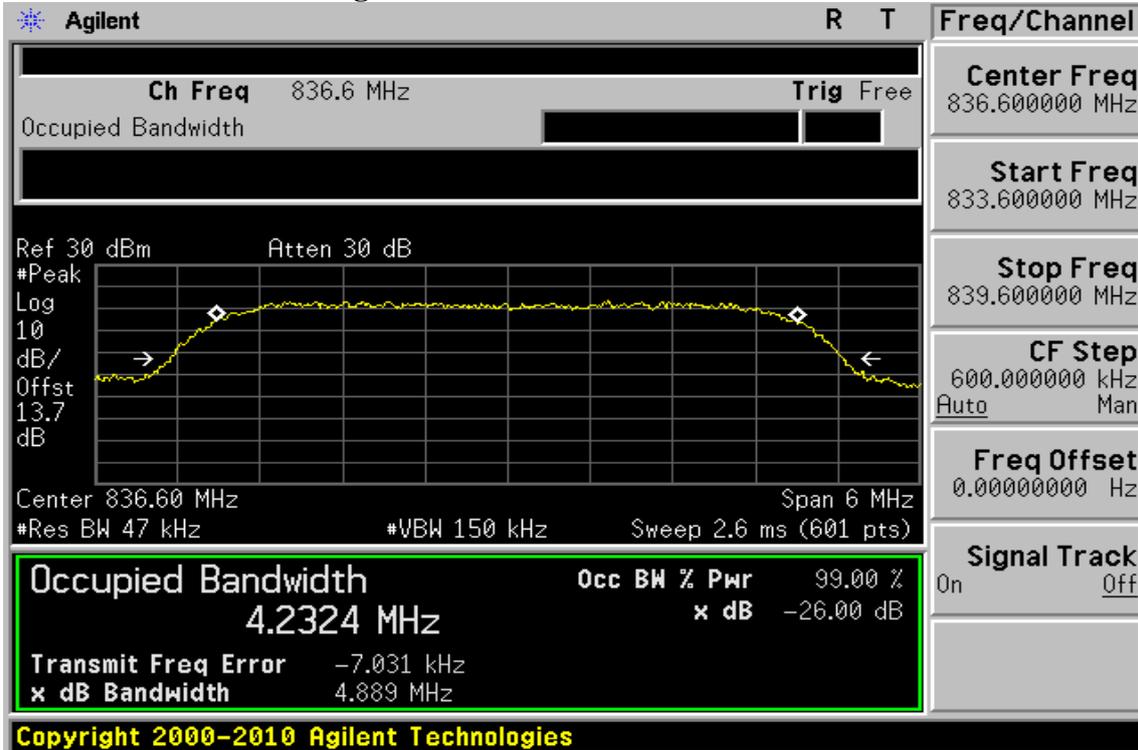
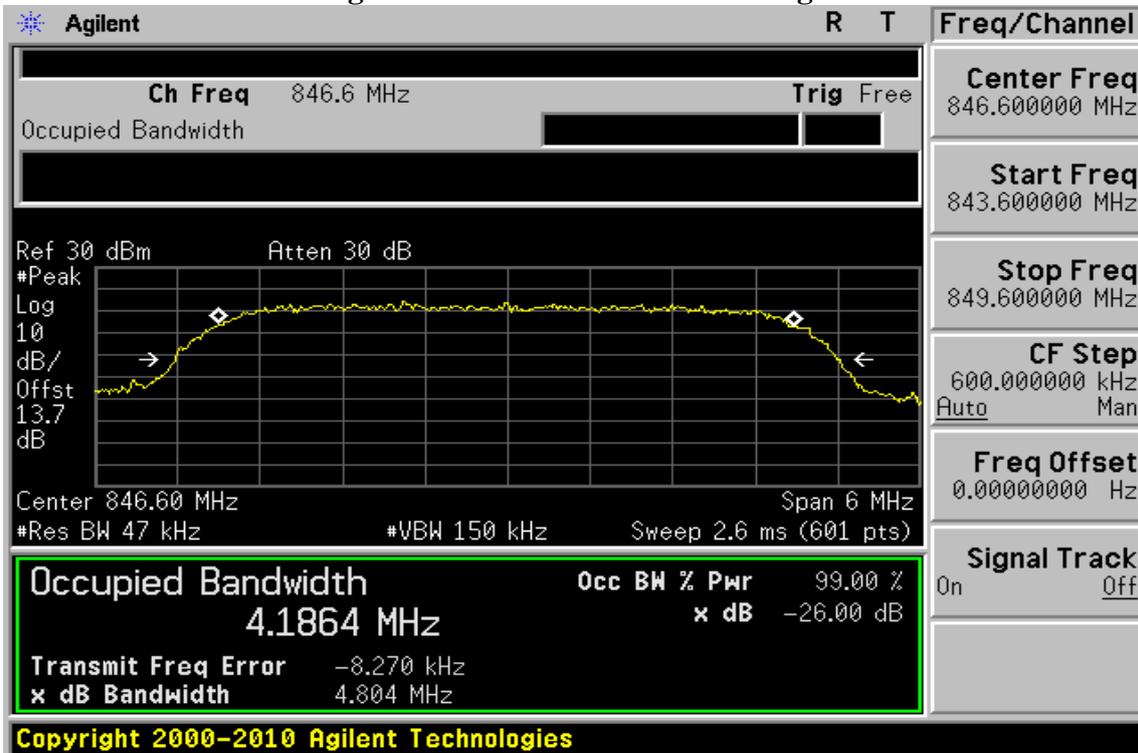


Figure 8-31: HSDPA V Channel High



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Figure 8-32: HSUPA II Channel Low

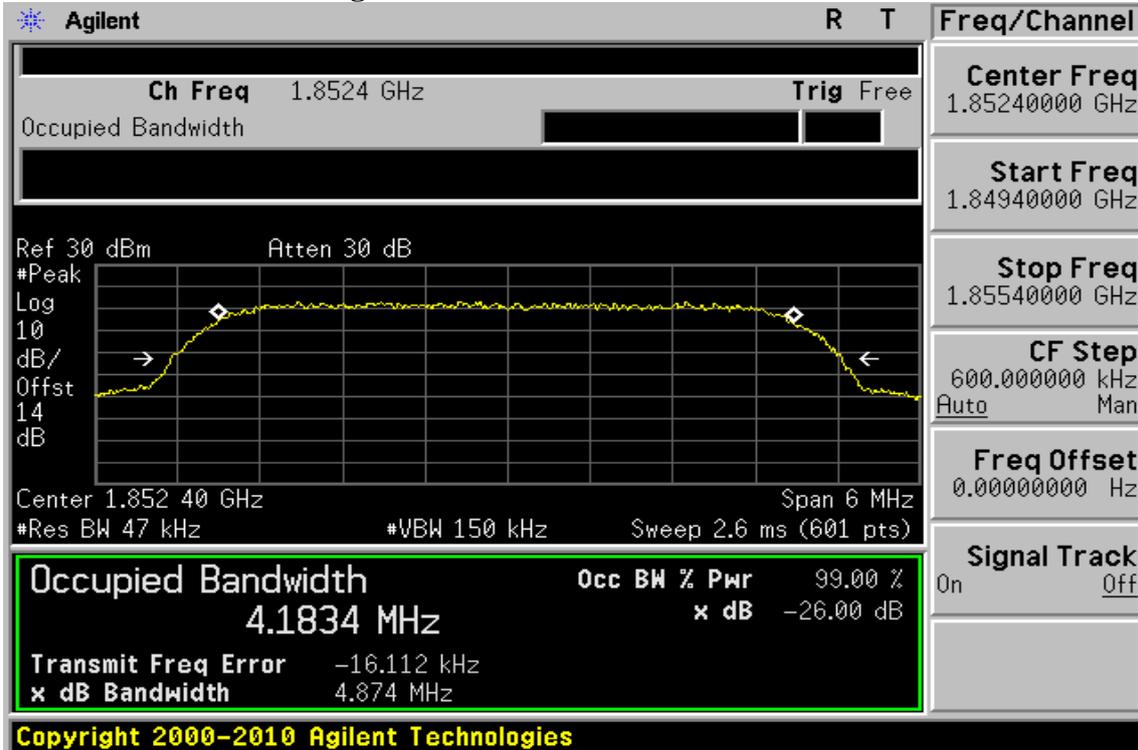
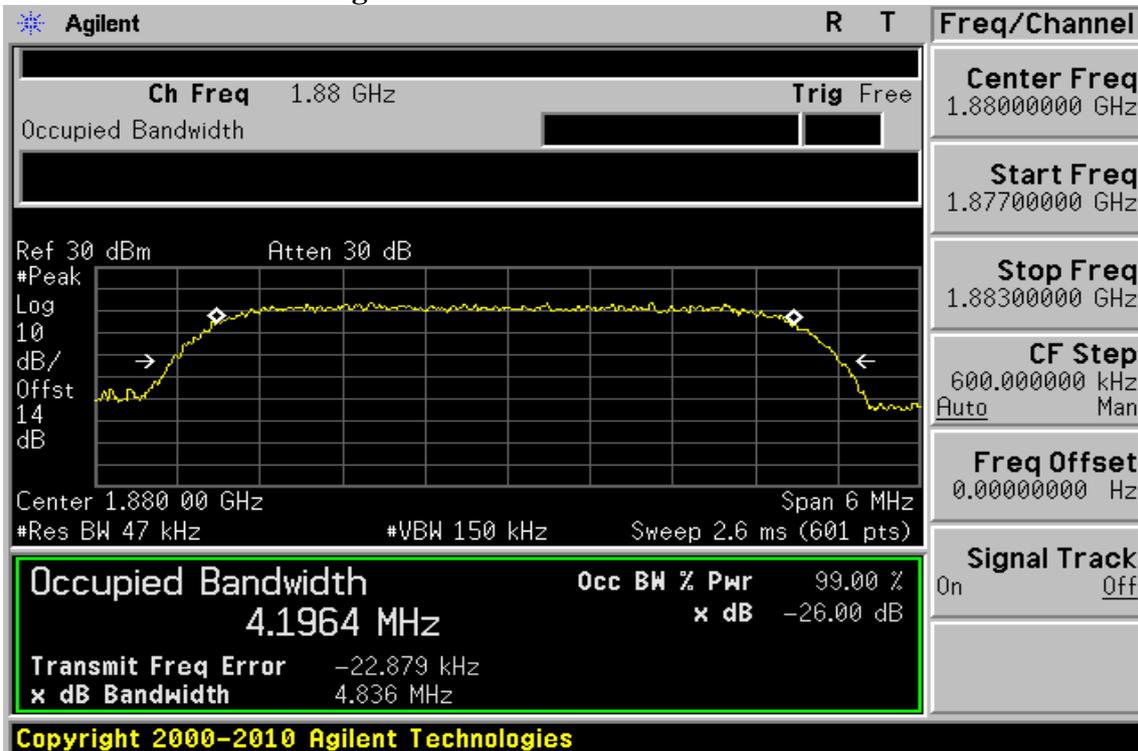


Figure 8-33: HSUPA II Channel Mid



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Figure 8-34: HSUPA II Channel High

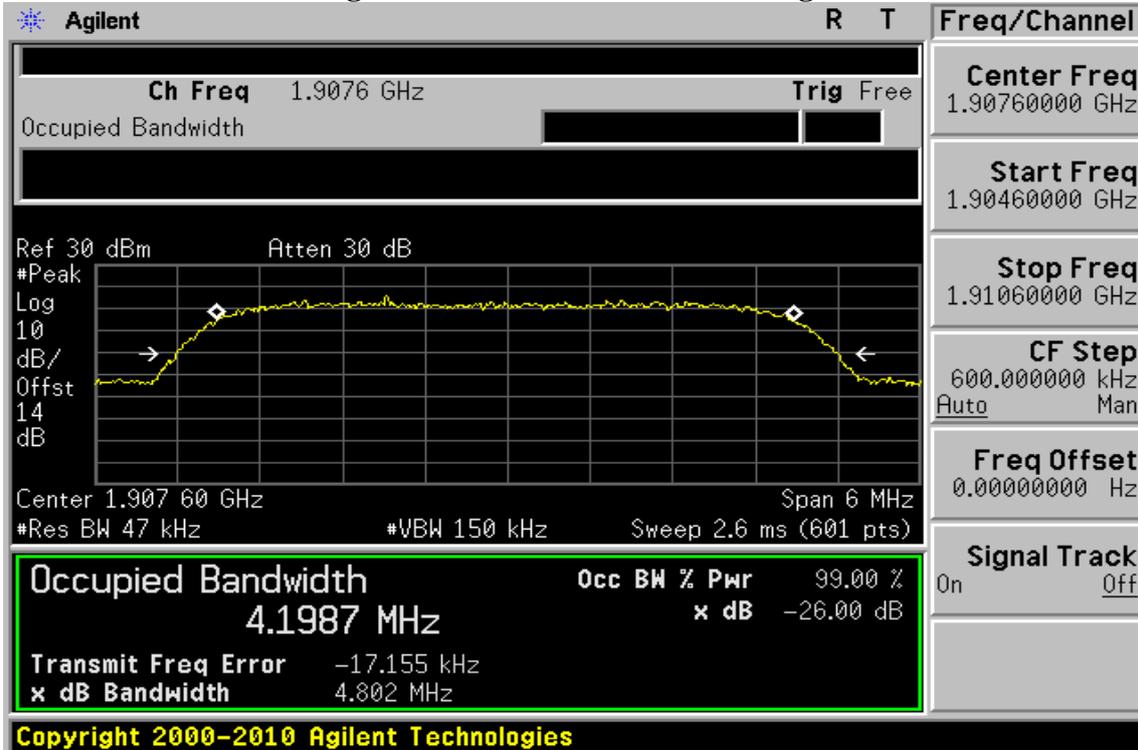
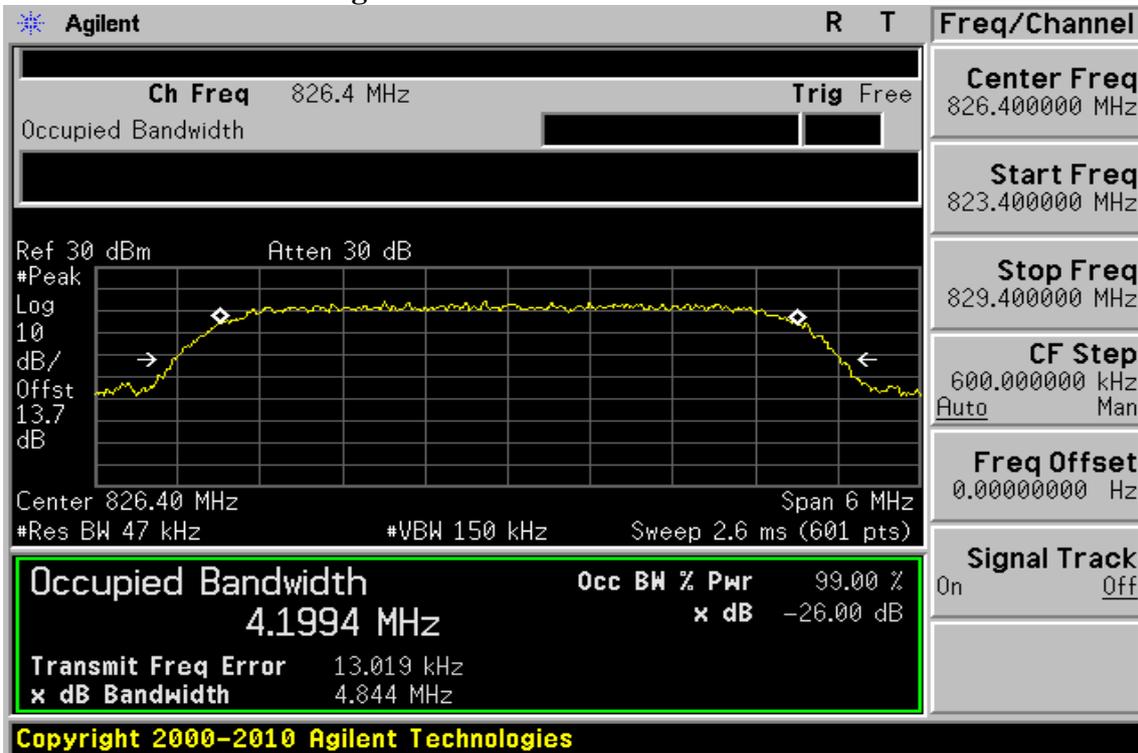


Figure 8-35: HSUPA V Channel Low



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Figure 8-36: HSUPA V Channel Mid

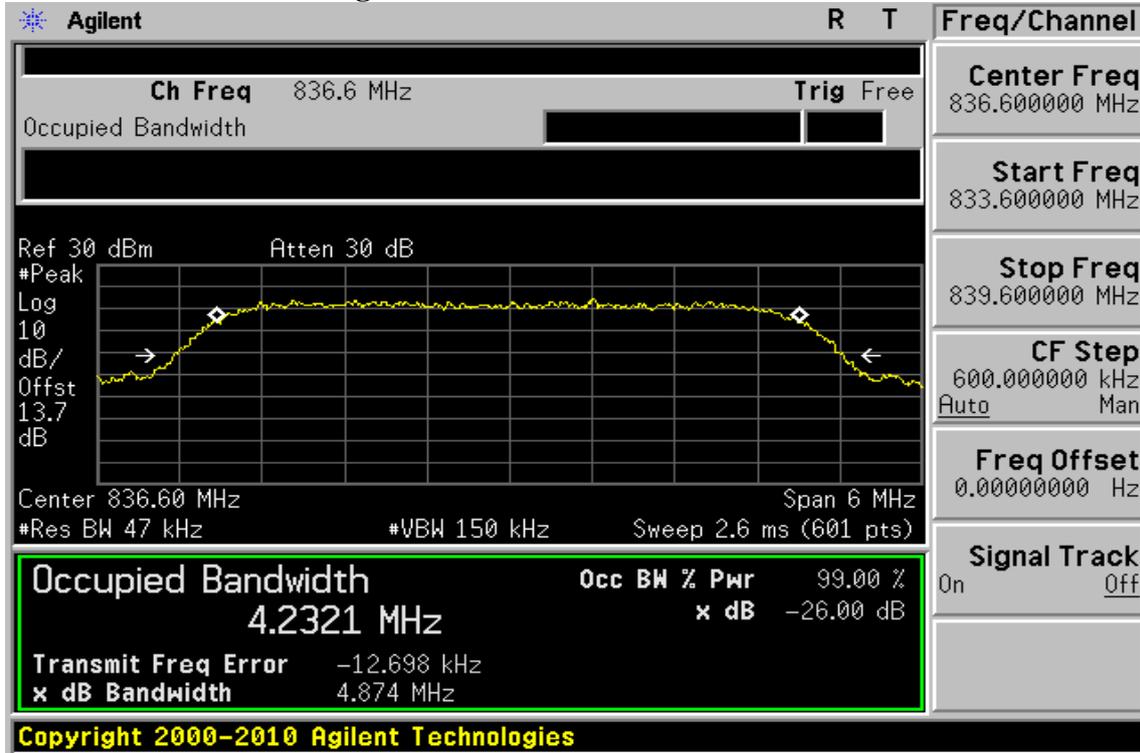
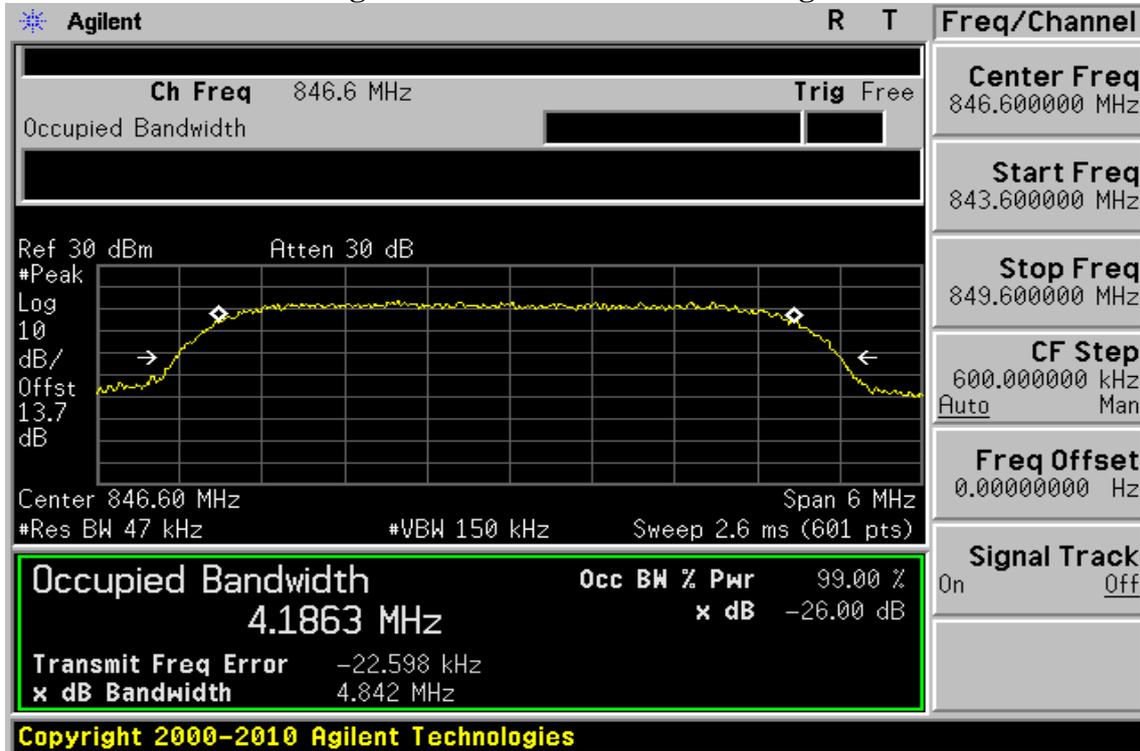


Figure 8-37: HSUPA V Channel High



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Figure 8-38: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low

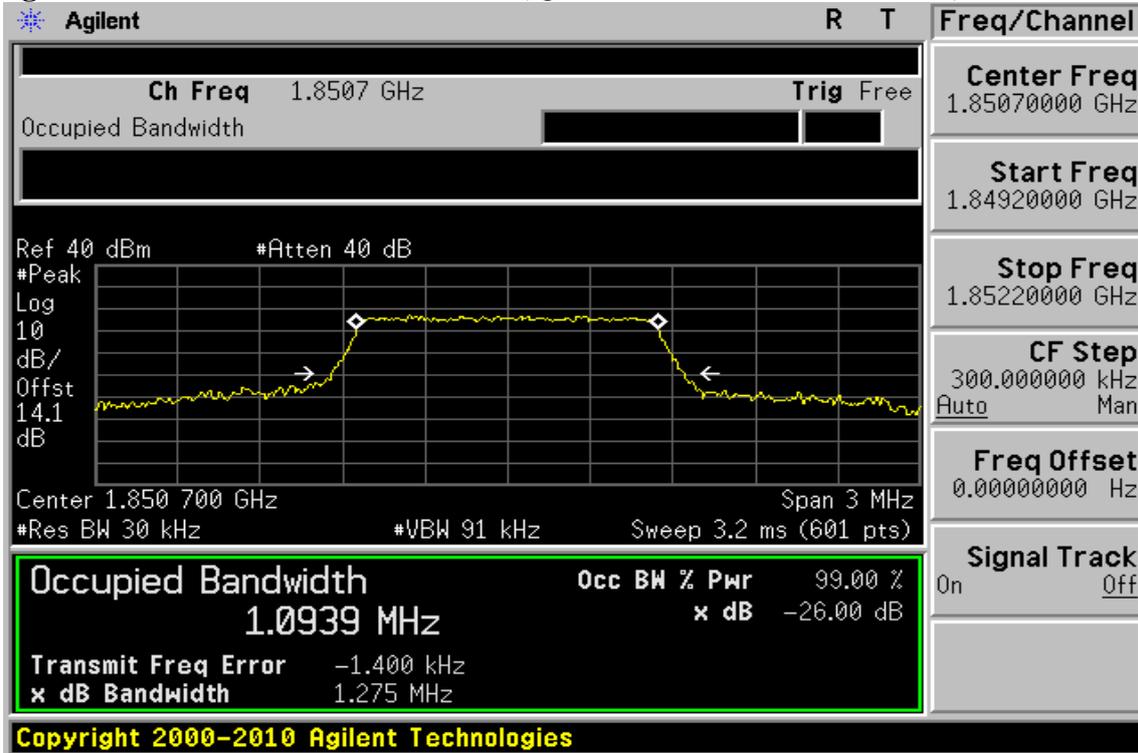
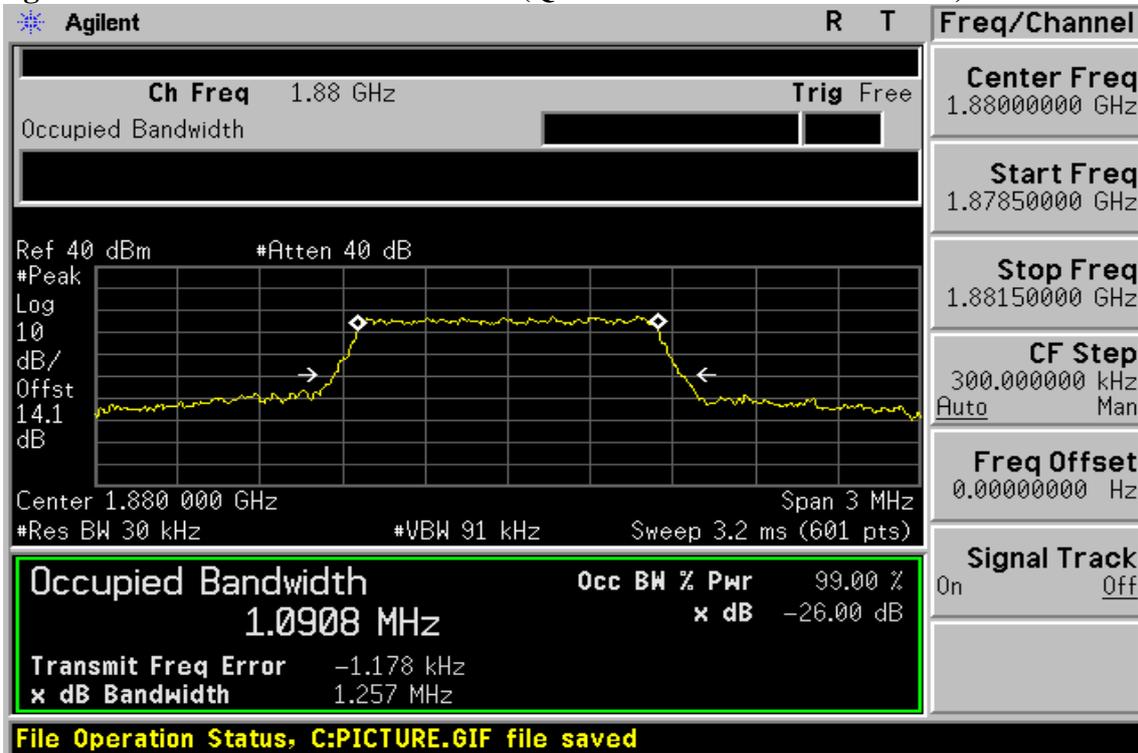


Figure 8-39: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 8-40: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High

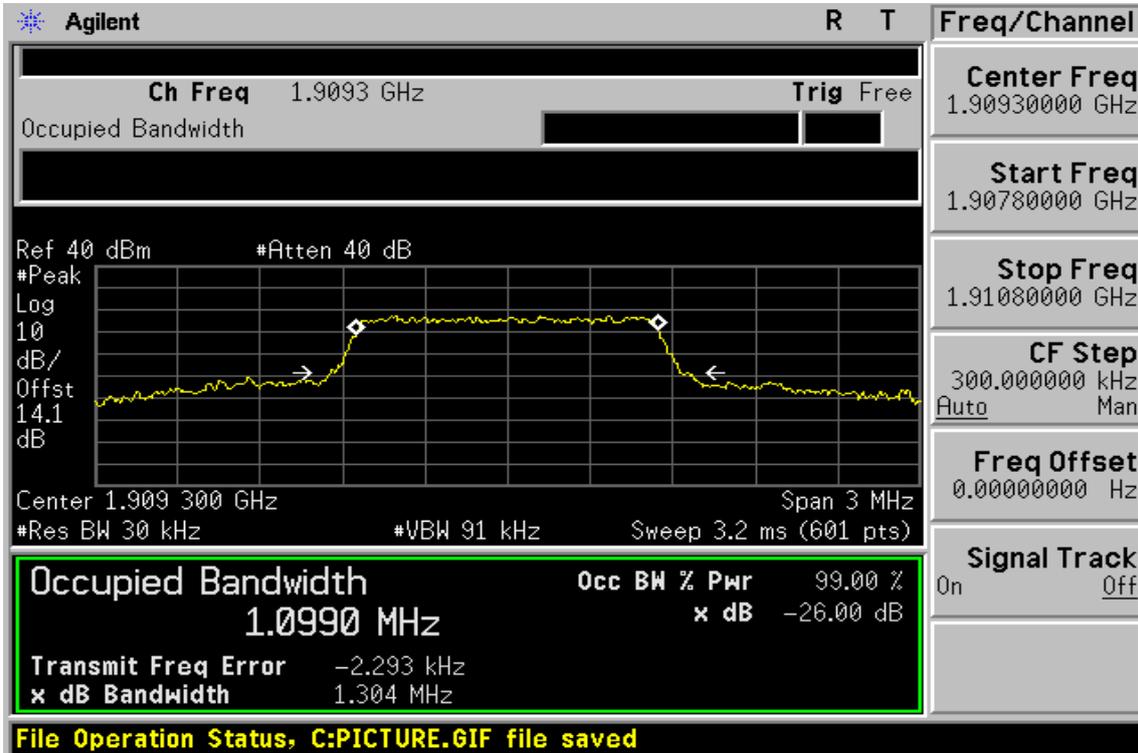
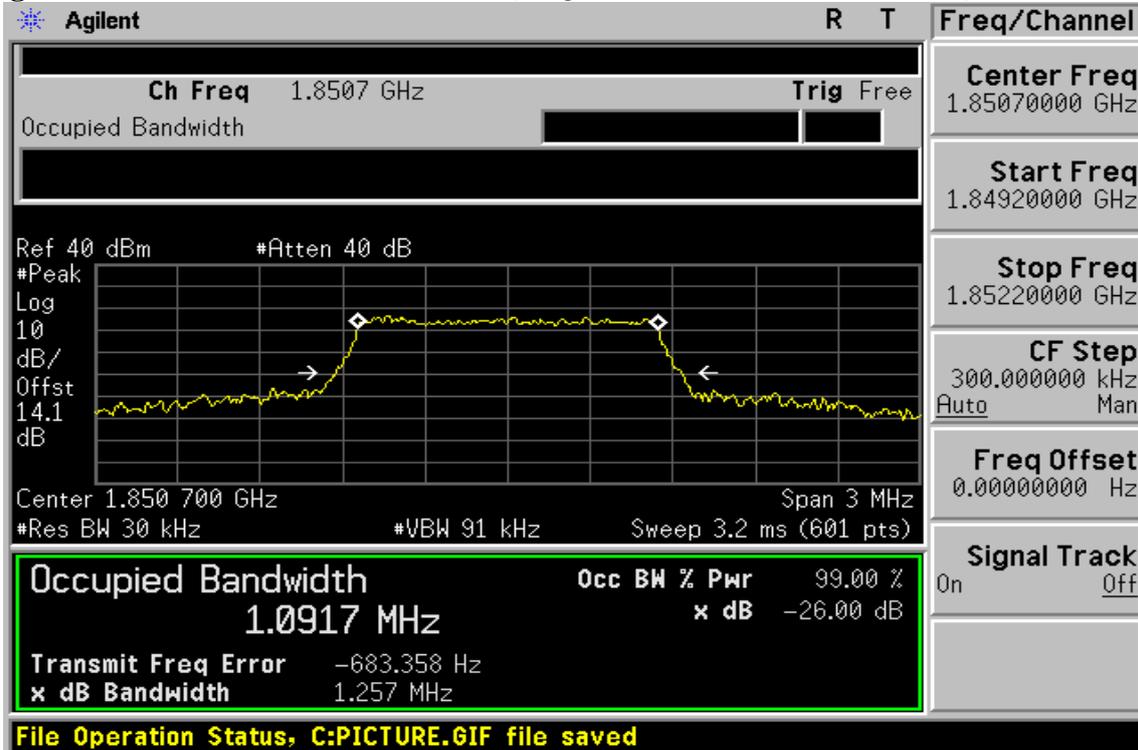


Figure 8-41: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Low



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Figure 8-42: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid

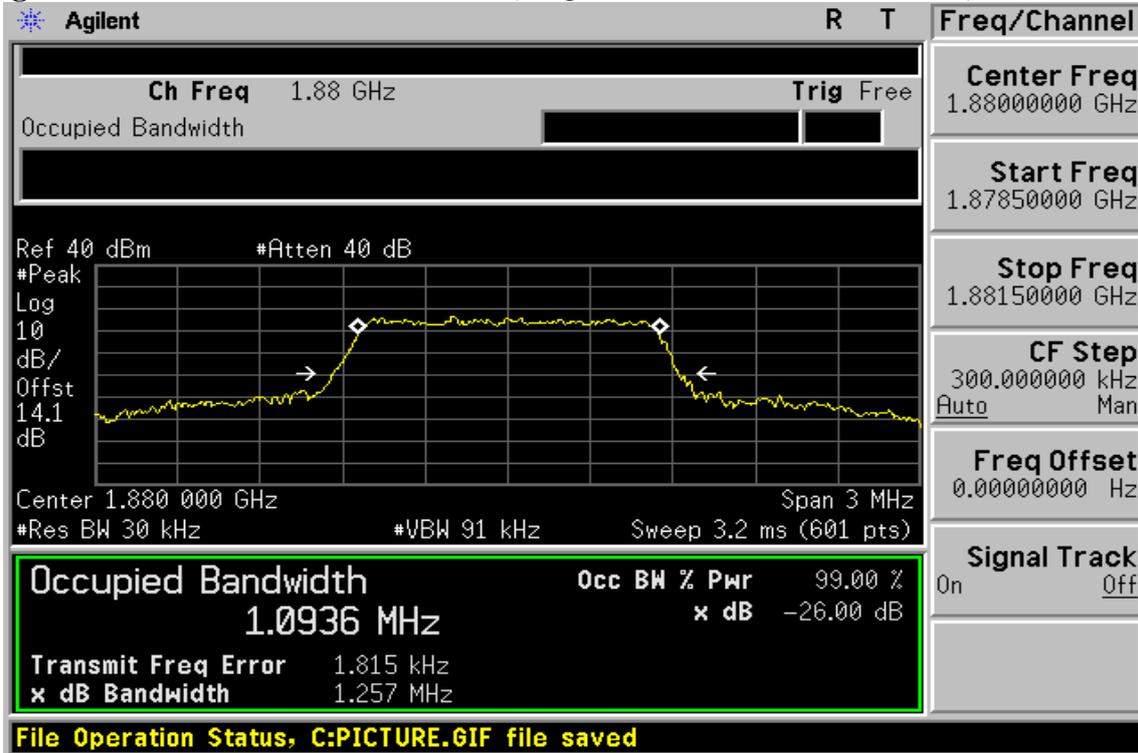
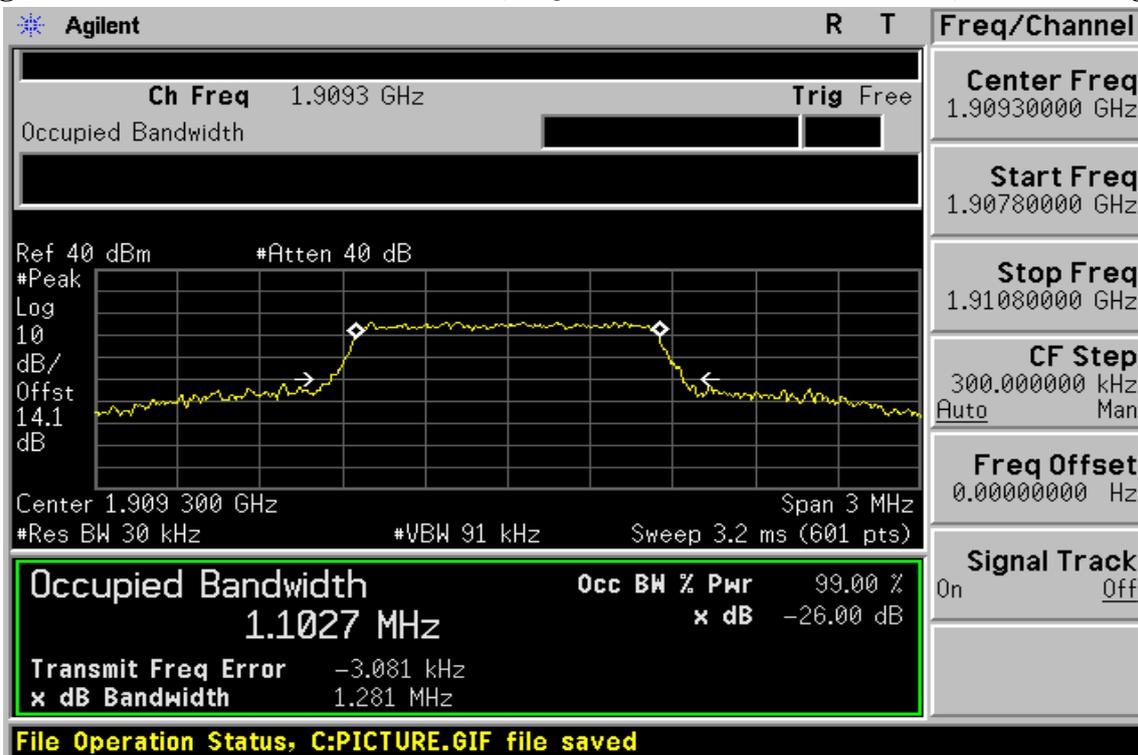


Figure 8-43: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel High



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Figure 8-44: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low

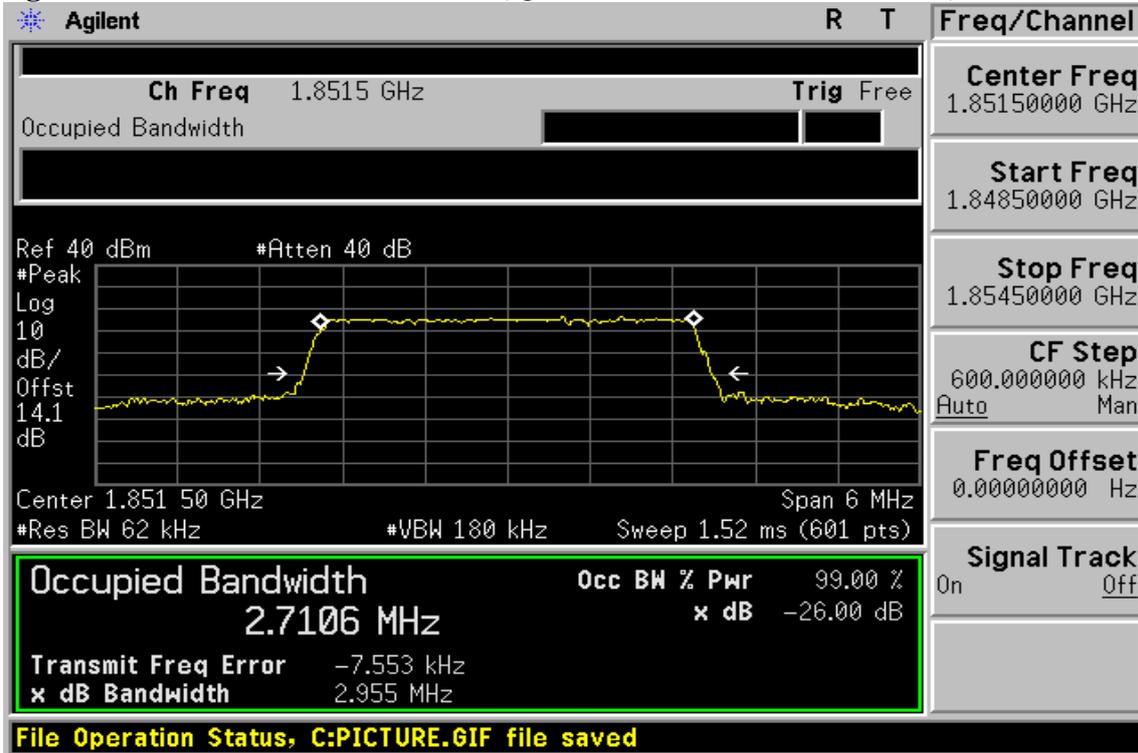
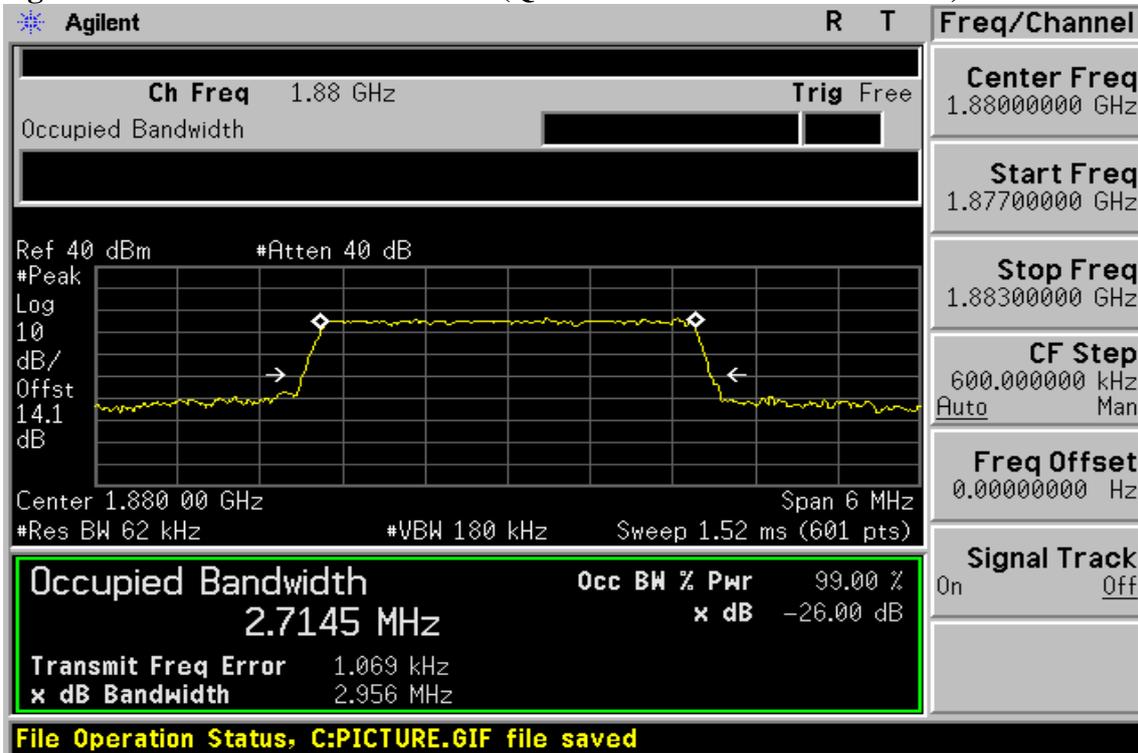


Figure 8-45: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Mid



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Figure 8-46: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High

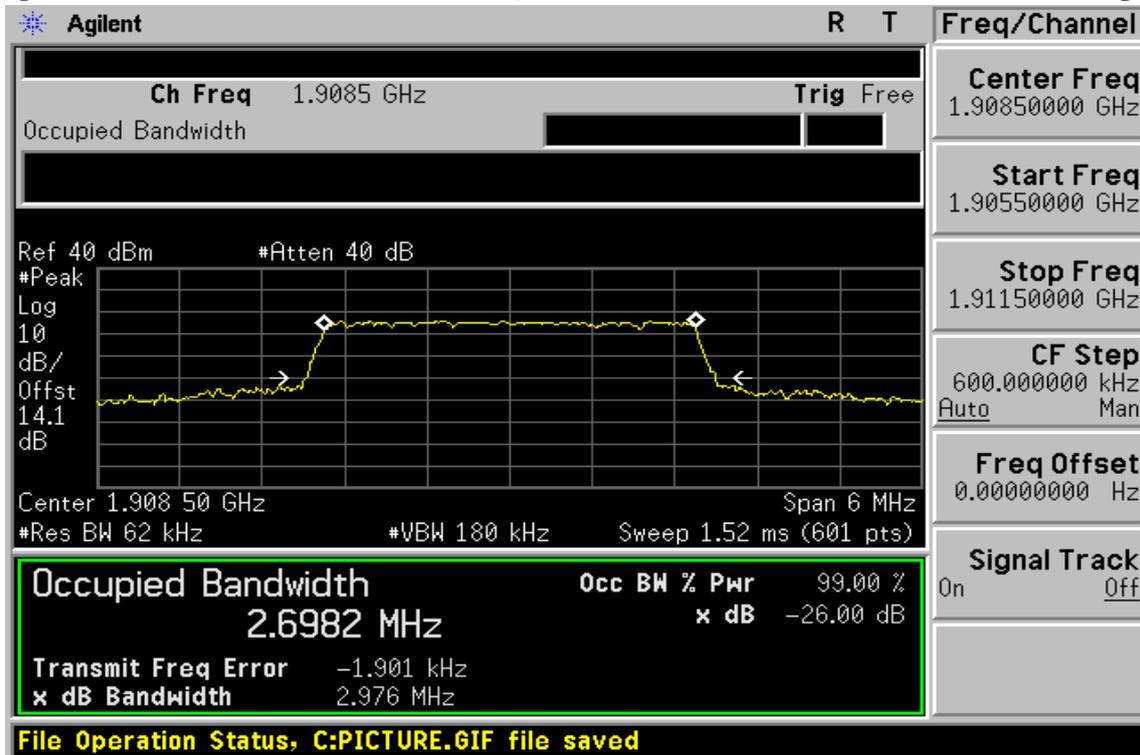
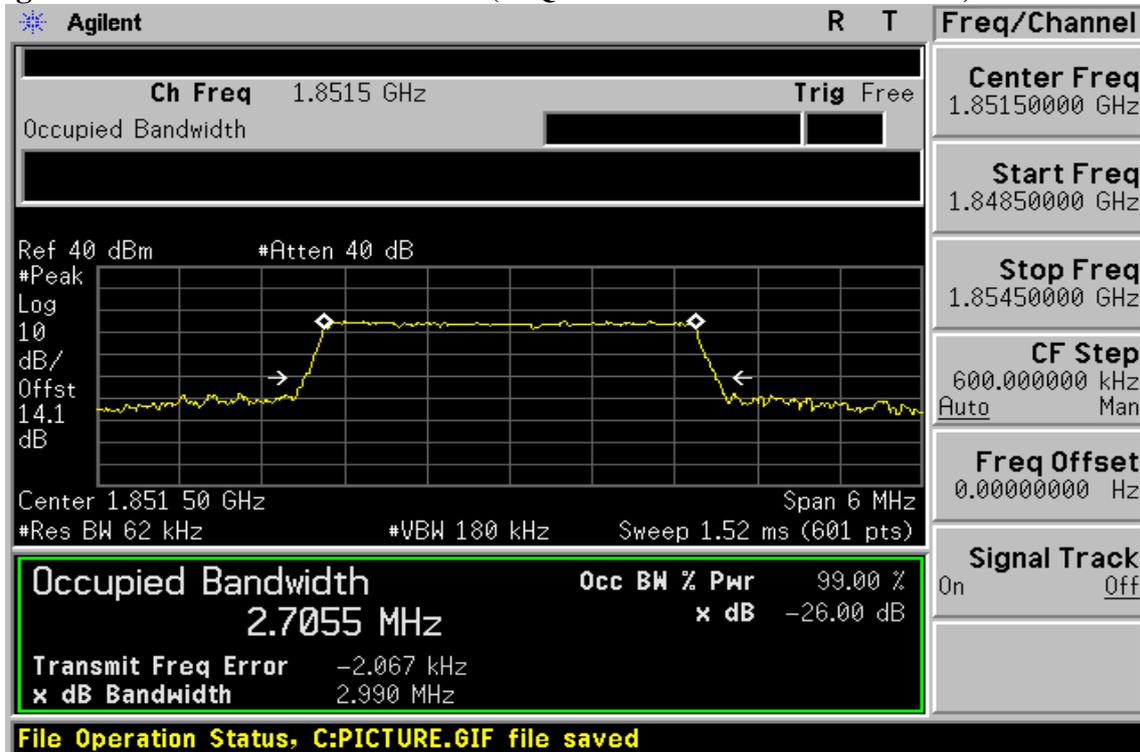


Figure 8-47: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Low



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Figure 8-48: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid

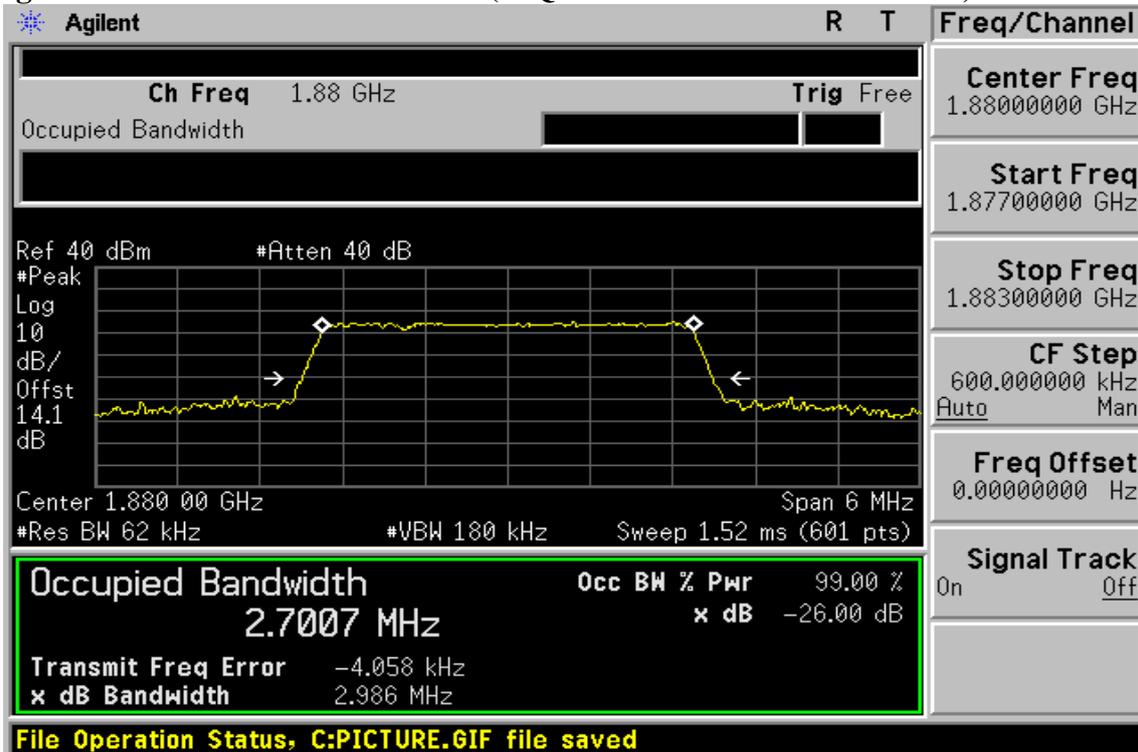
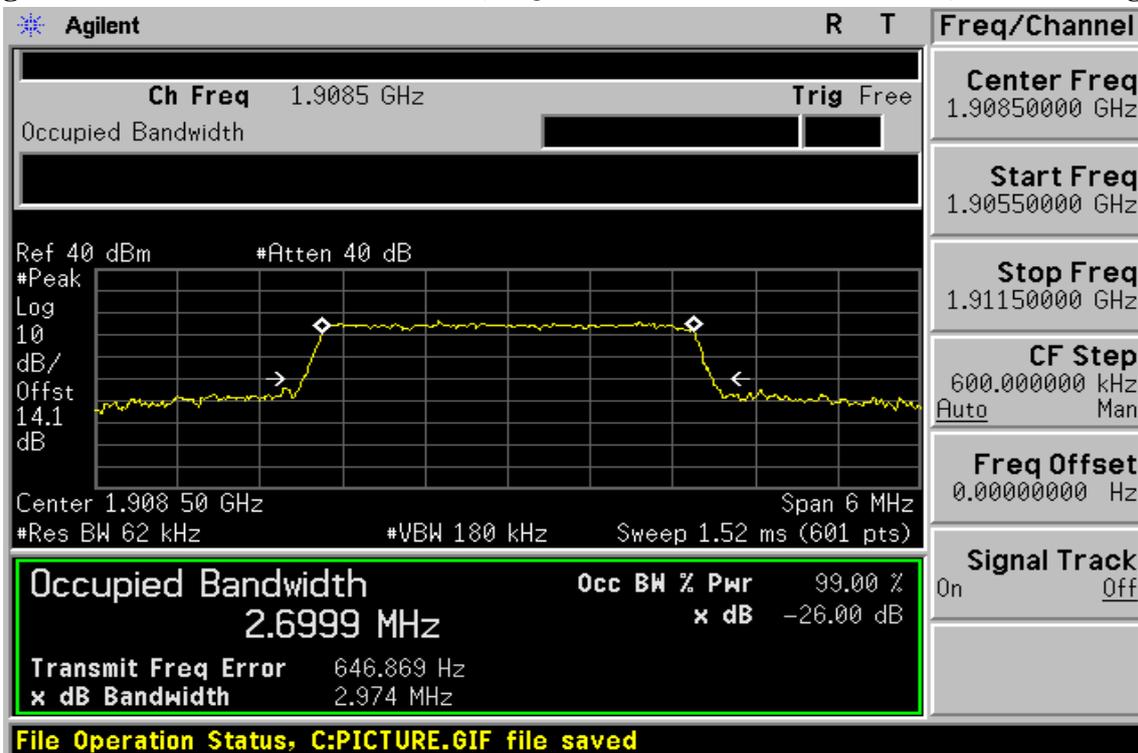


Figure 8-49: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel High



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Figure 8-50: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low

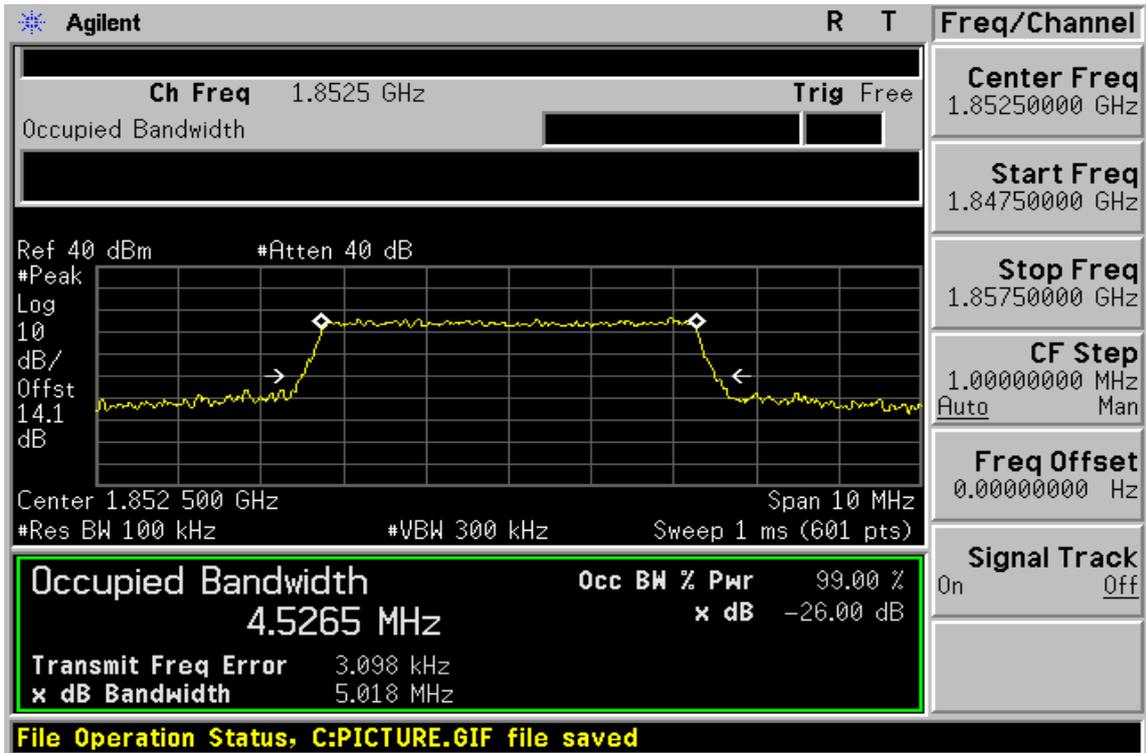
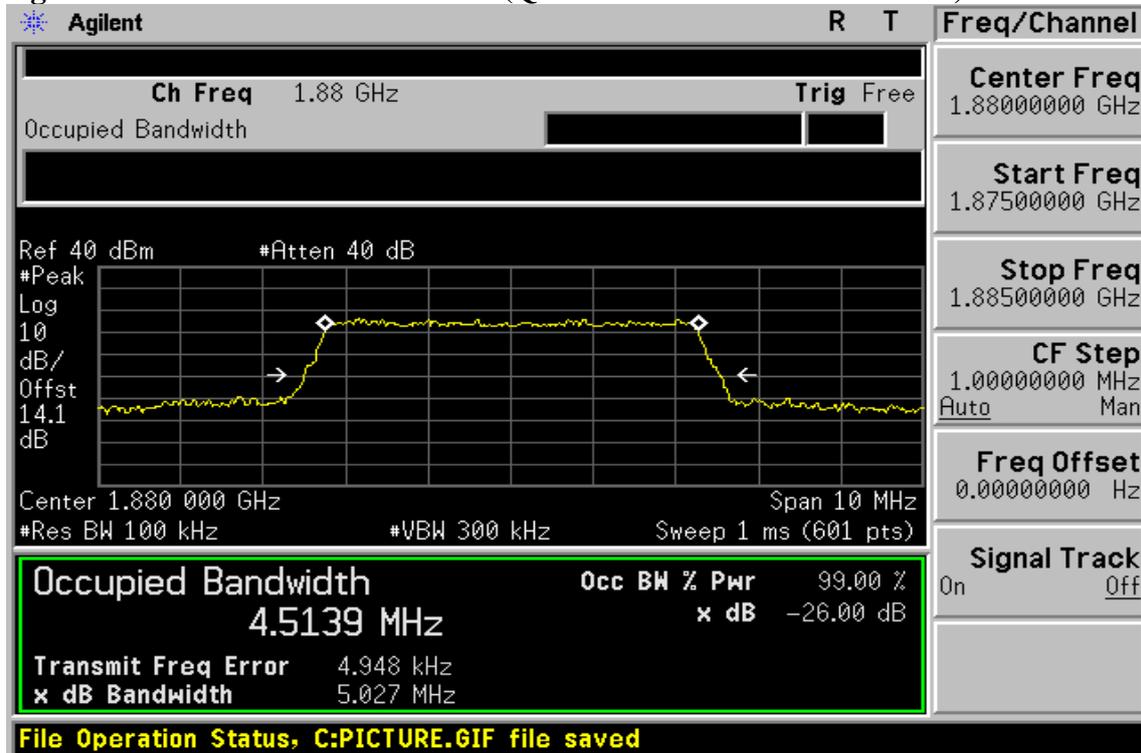


Figure 8-51: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 8-52: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High

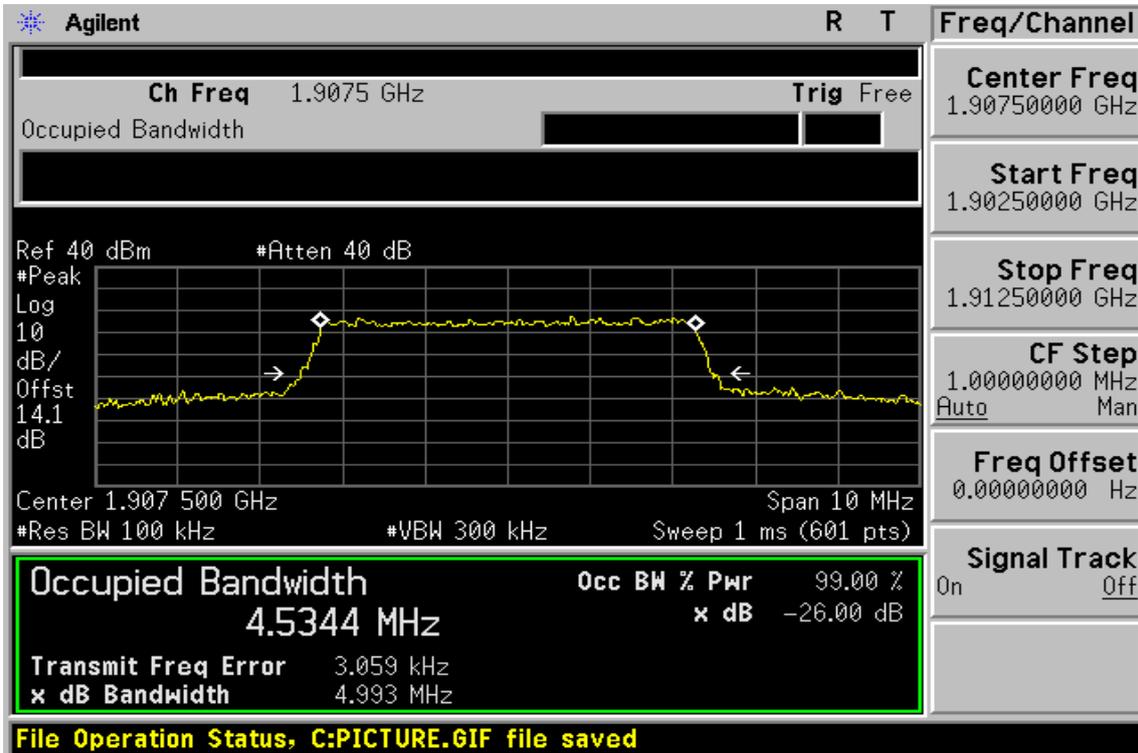
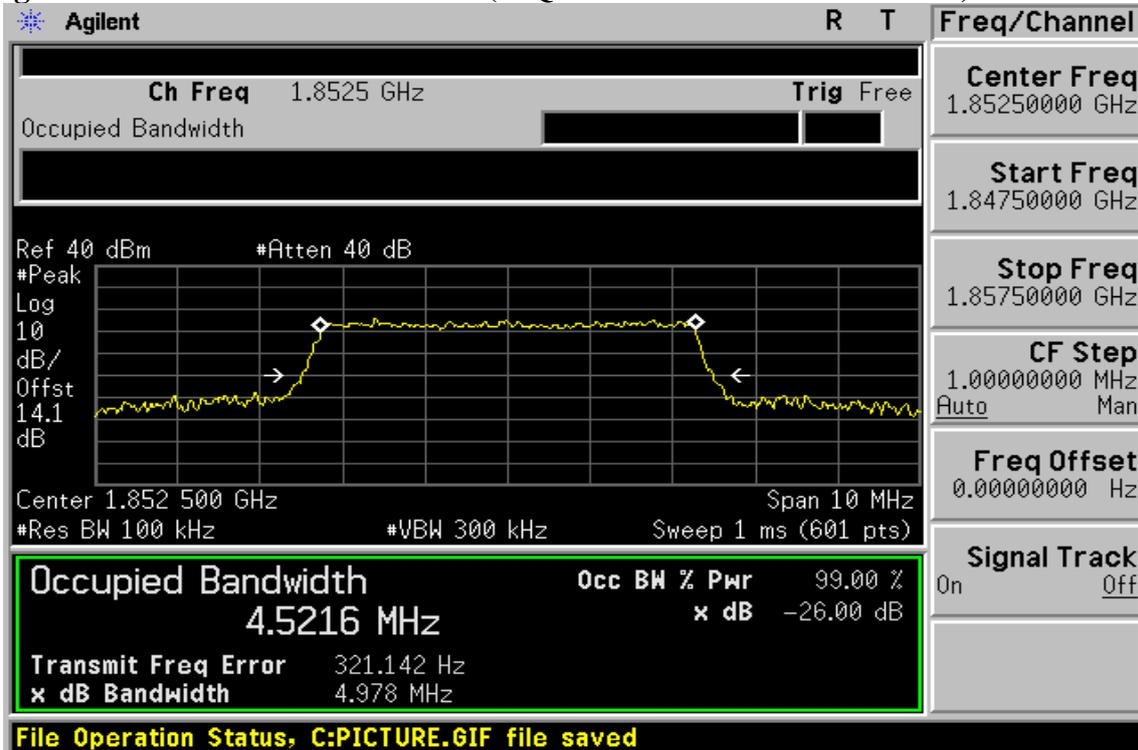


Figure 8-53: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 8-54: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid

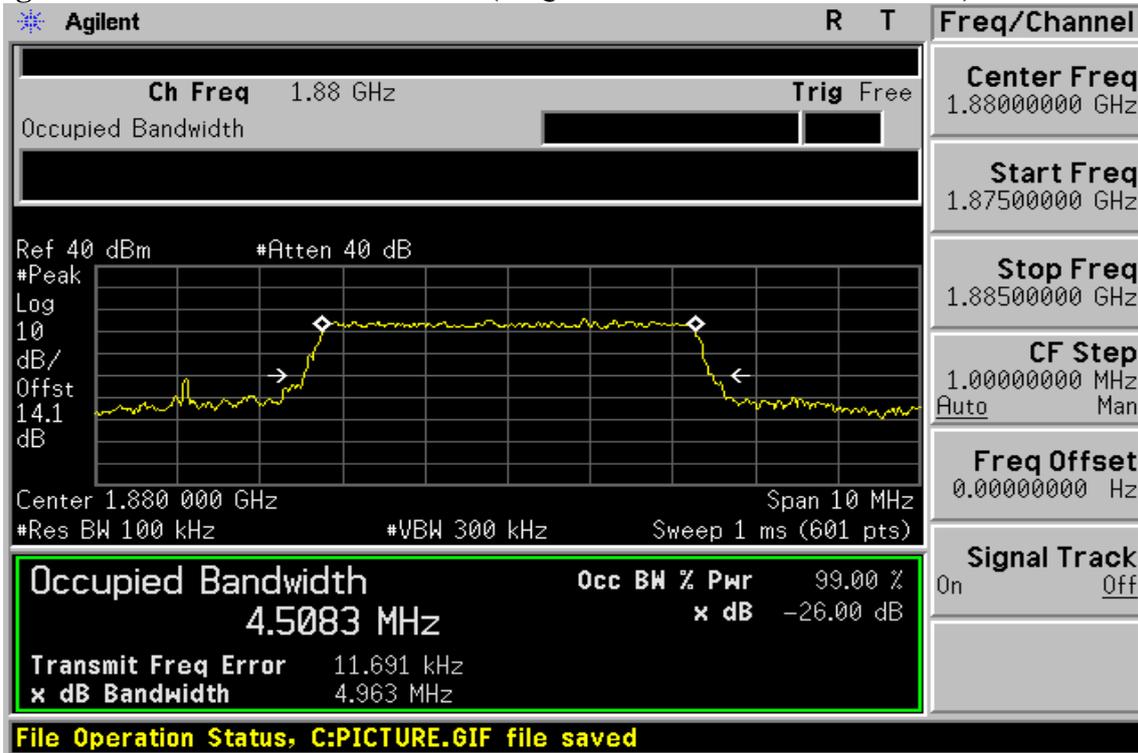
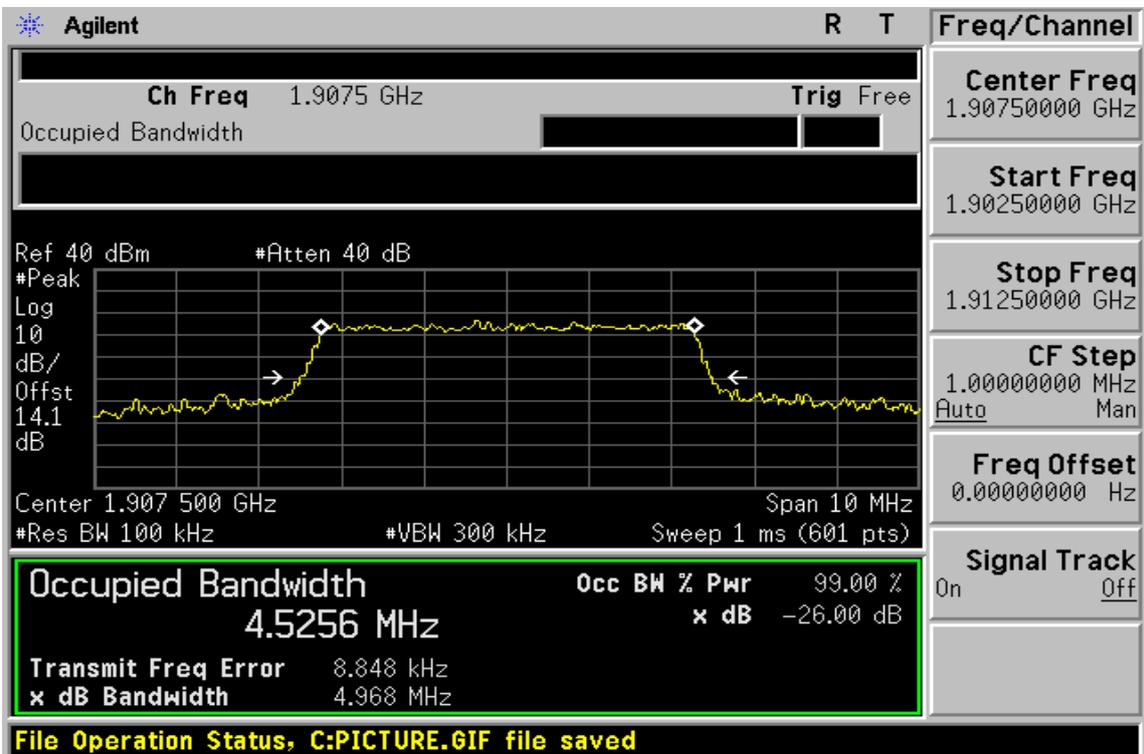


Figure 8-55: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 8-56: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low

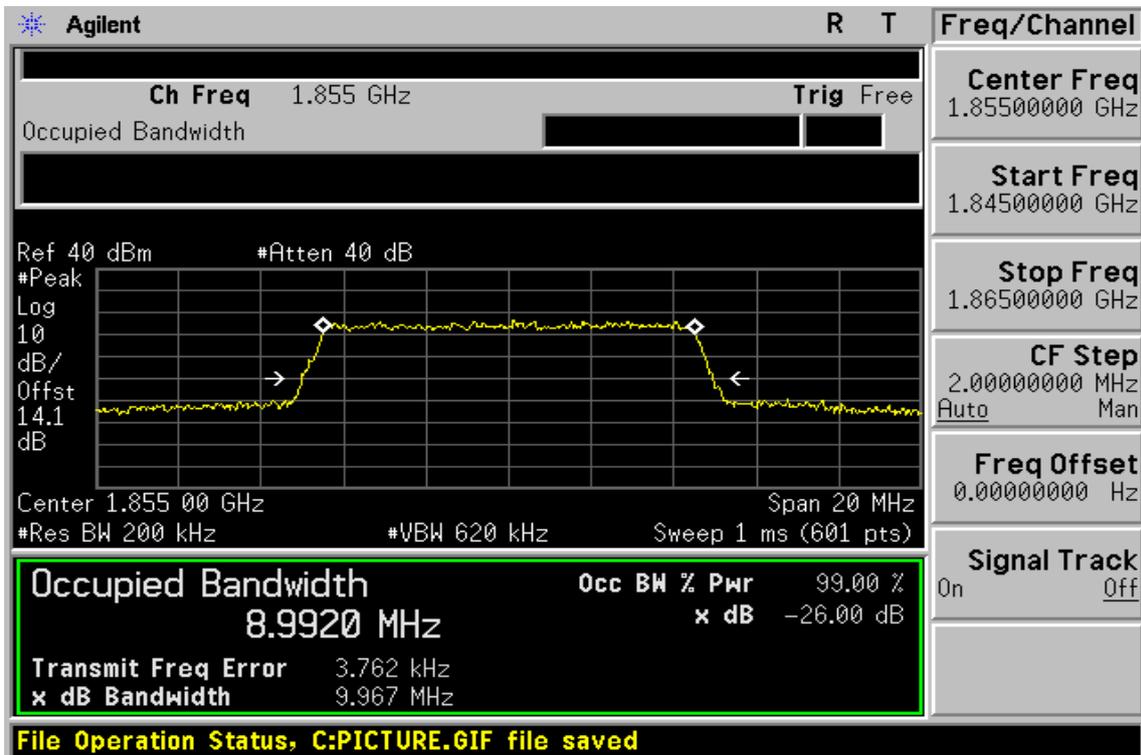
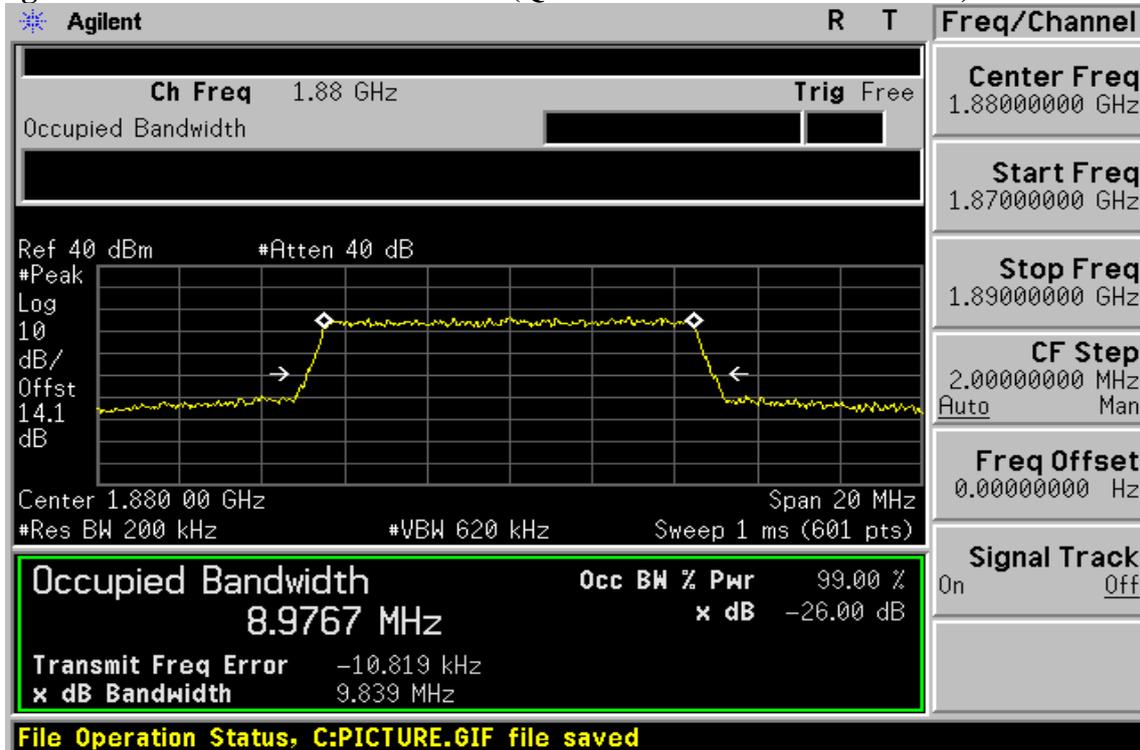


Figure 8-57: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 8-58: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel High

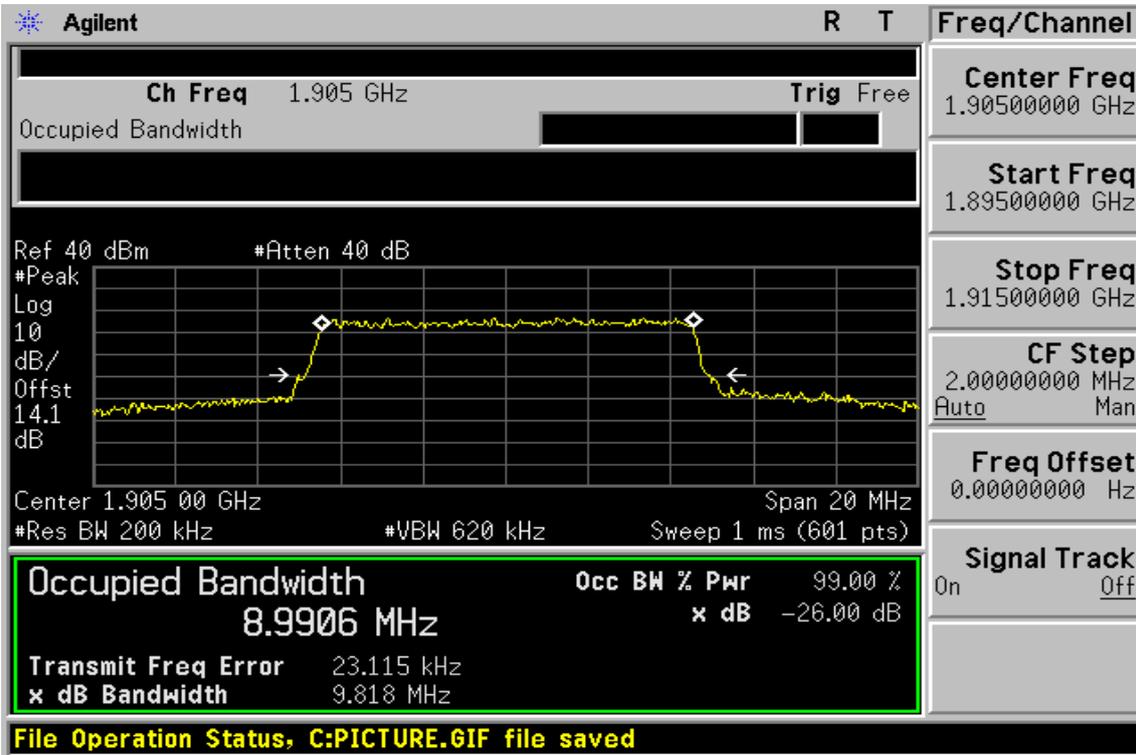
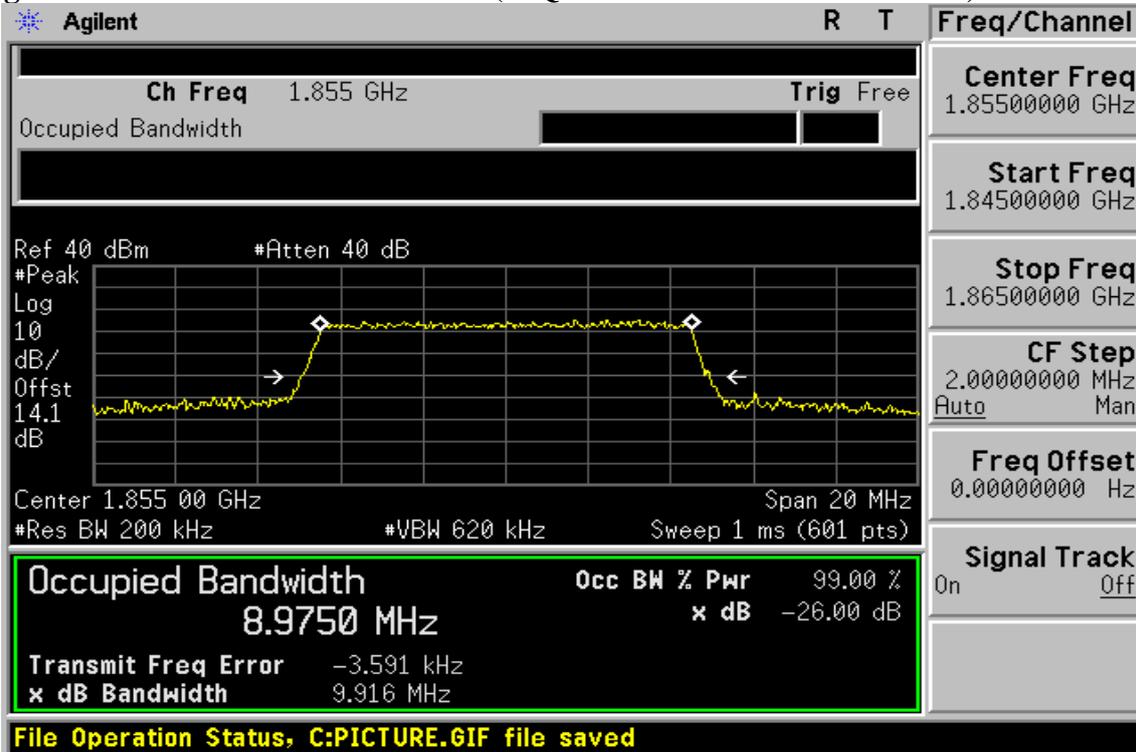


Figure 8-59: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 8-60: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid

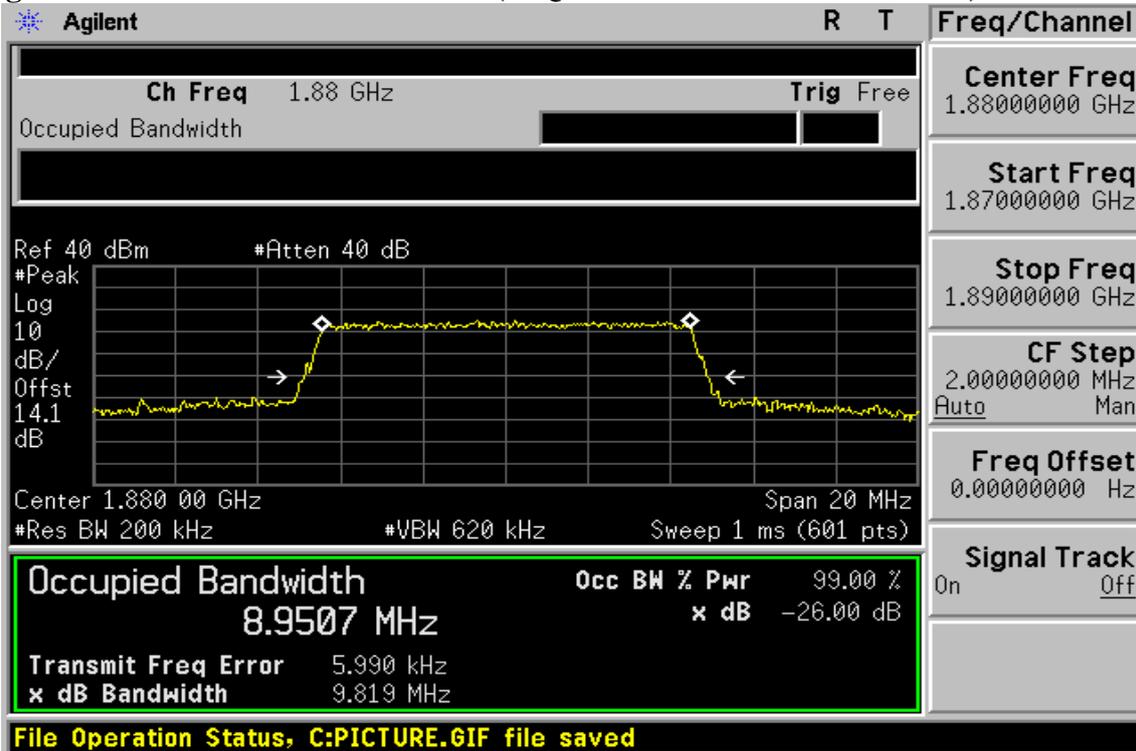
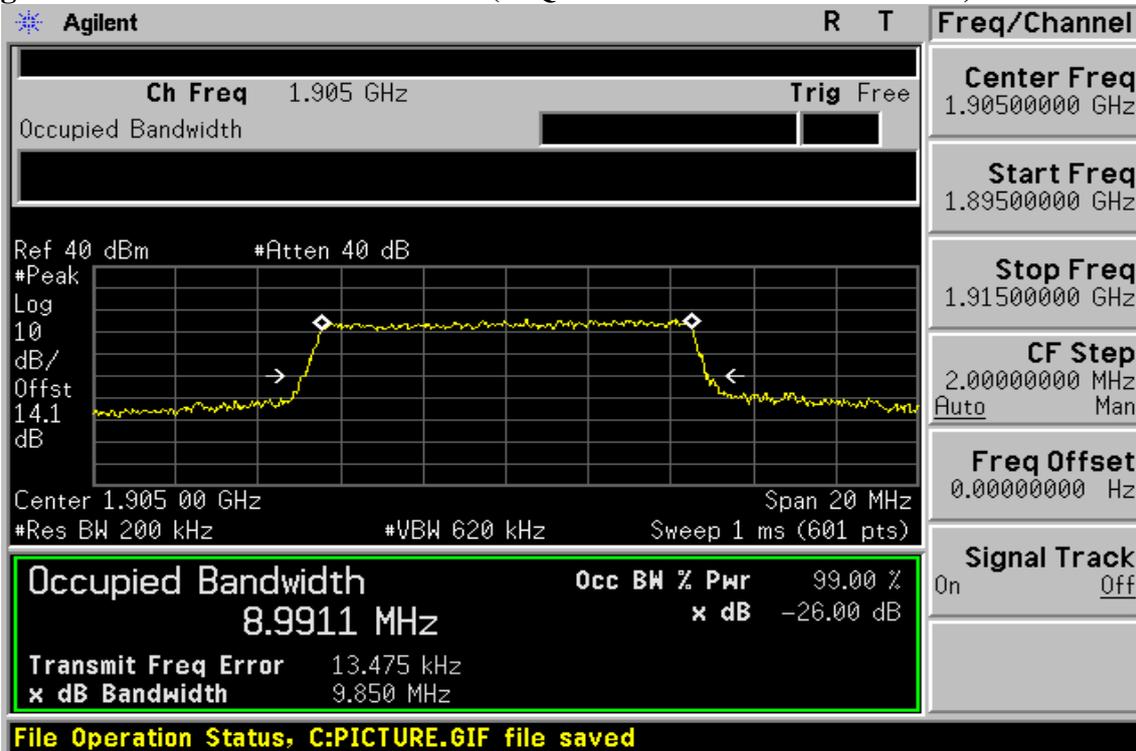


Figure 8-61: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 8-62: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low

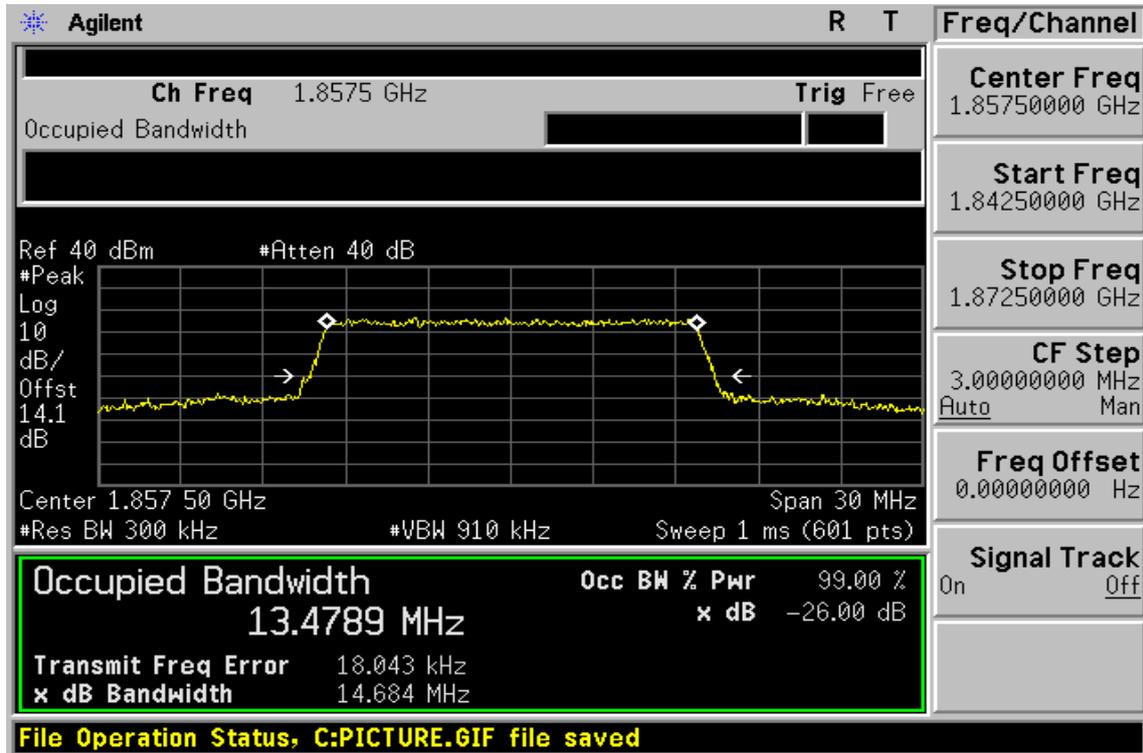
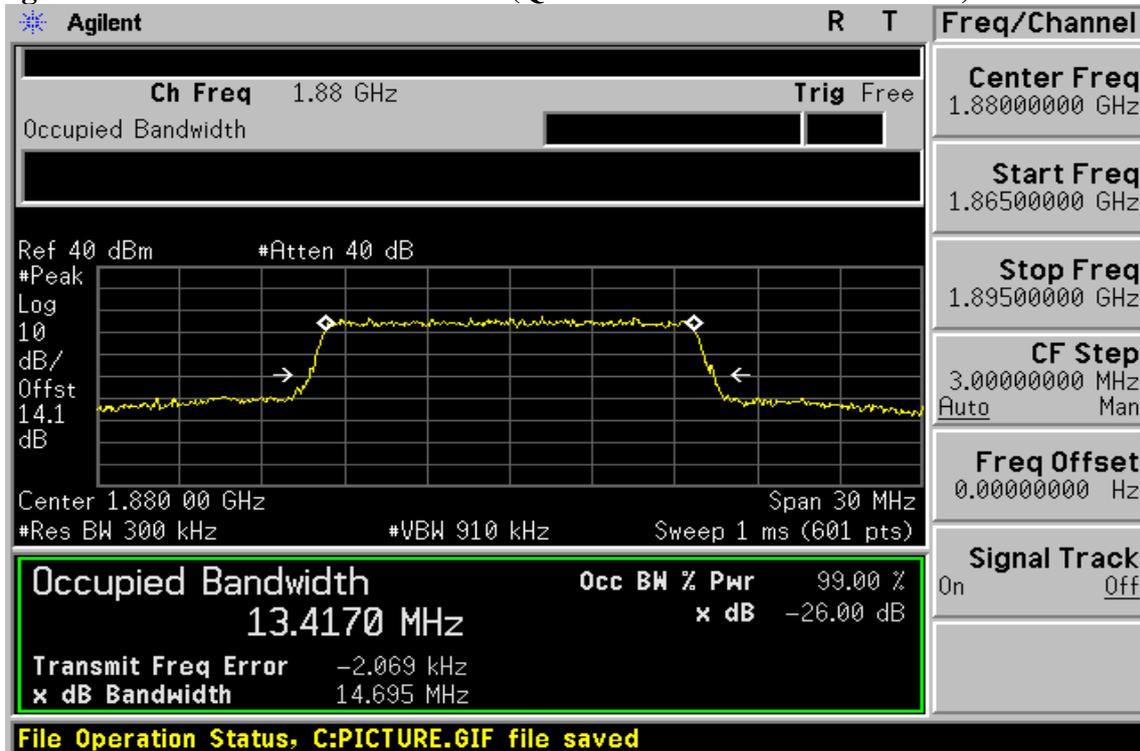


Figure 8-63: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Mid



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Figure 8-64: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High

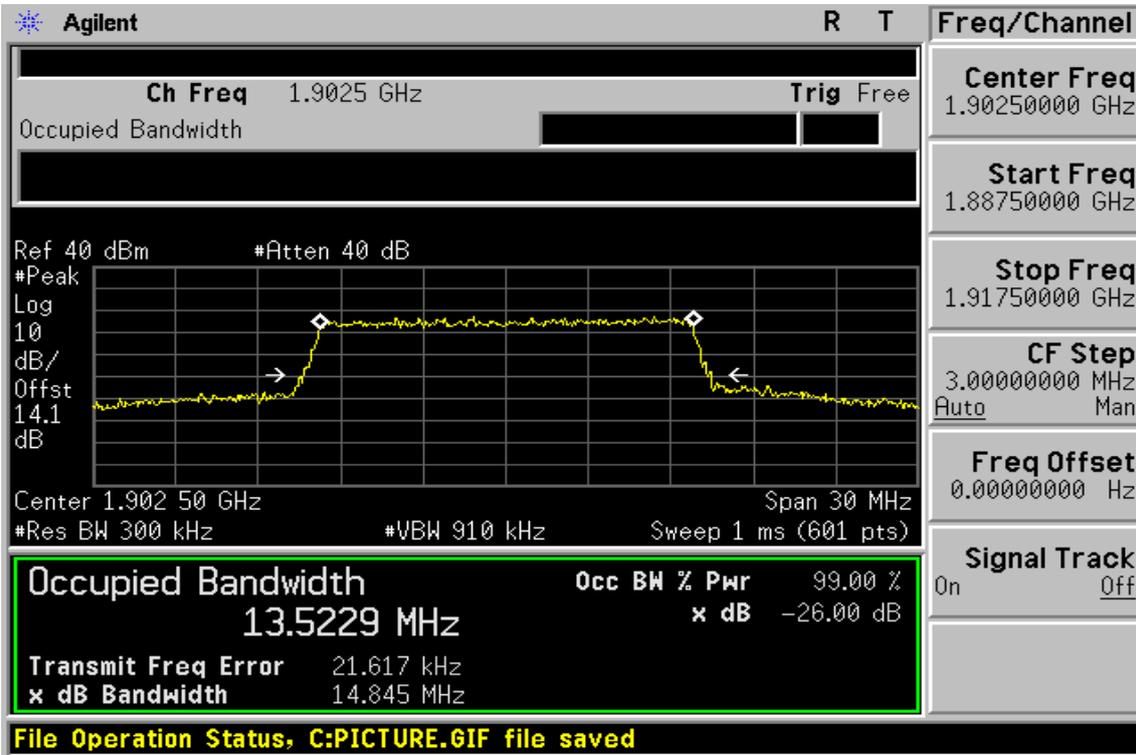
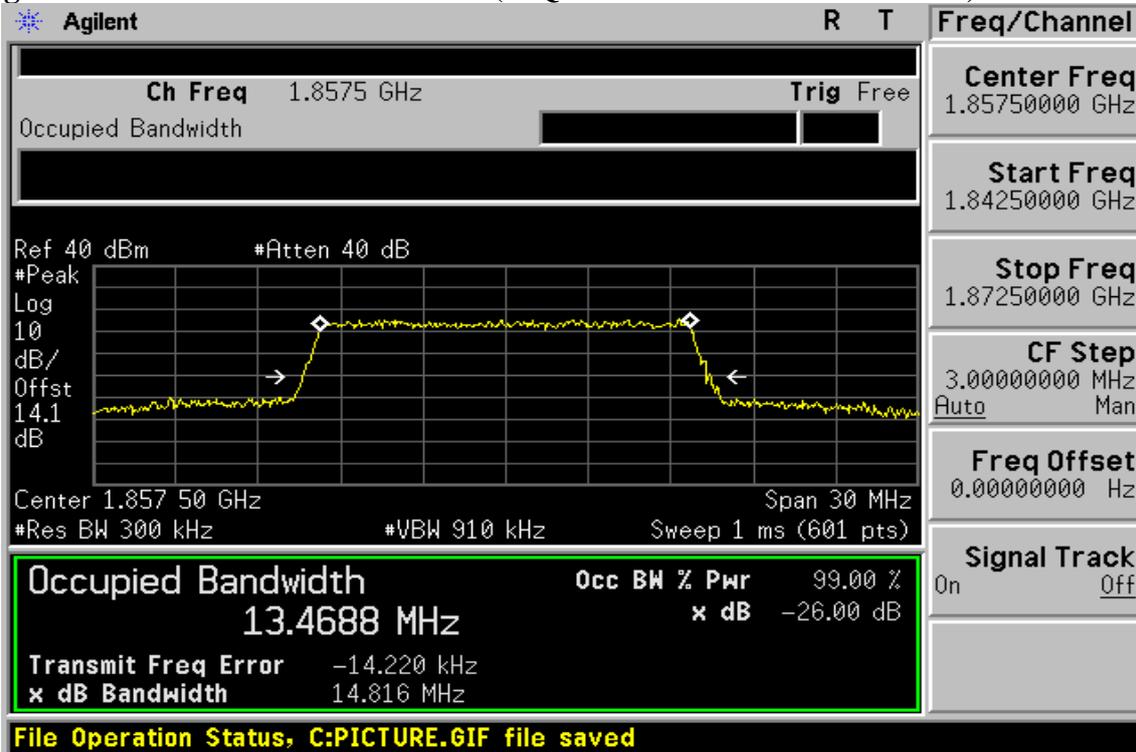


Figure 8-65: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Low



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Figure 8-66: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid

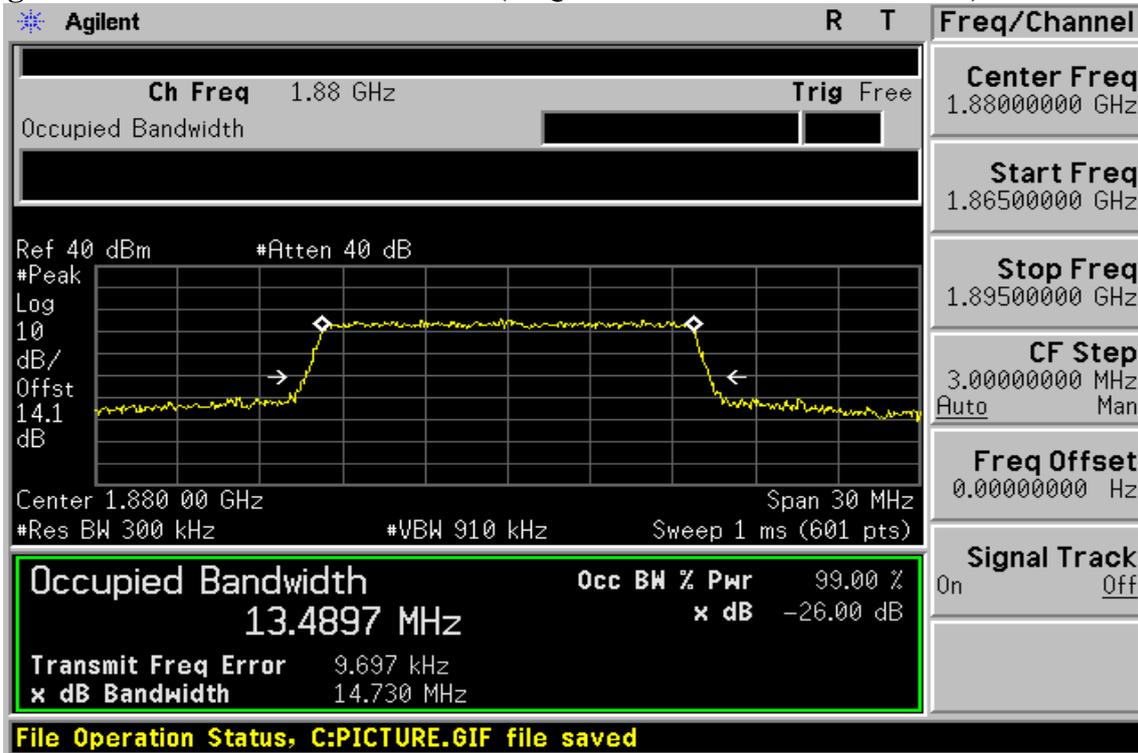
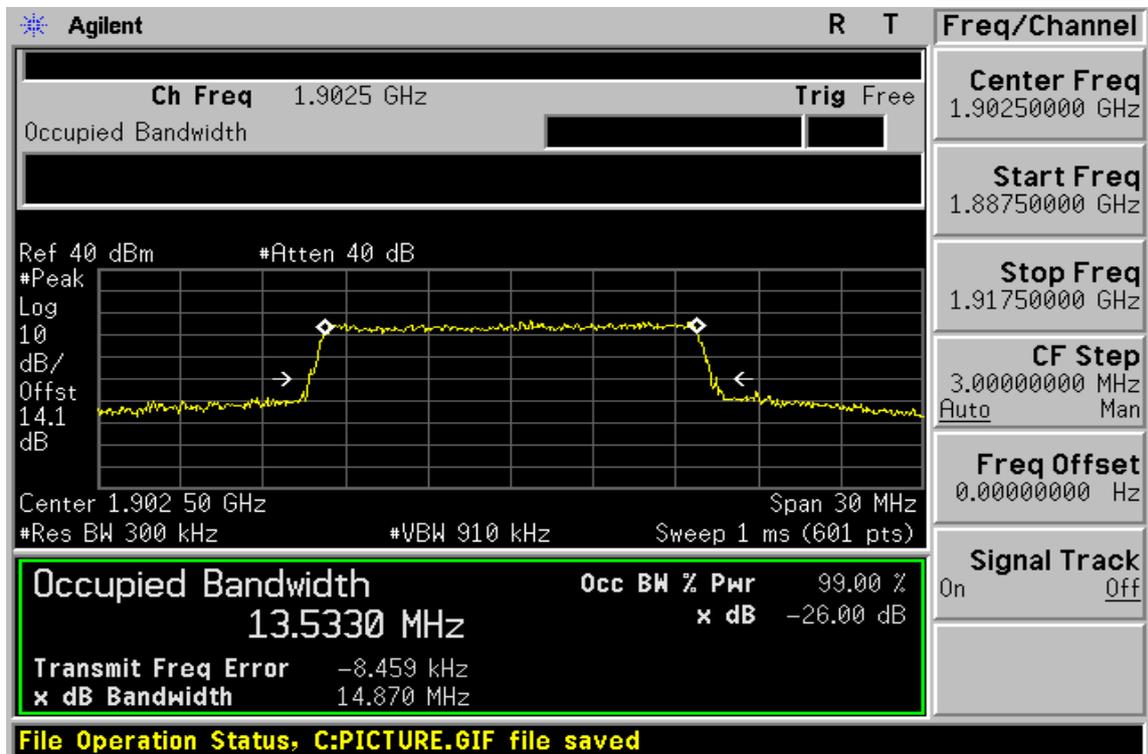


Figure 8-67: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel High



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Figure 8-68: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low

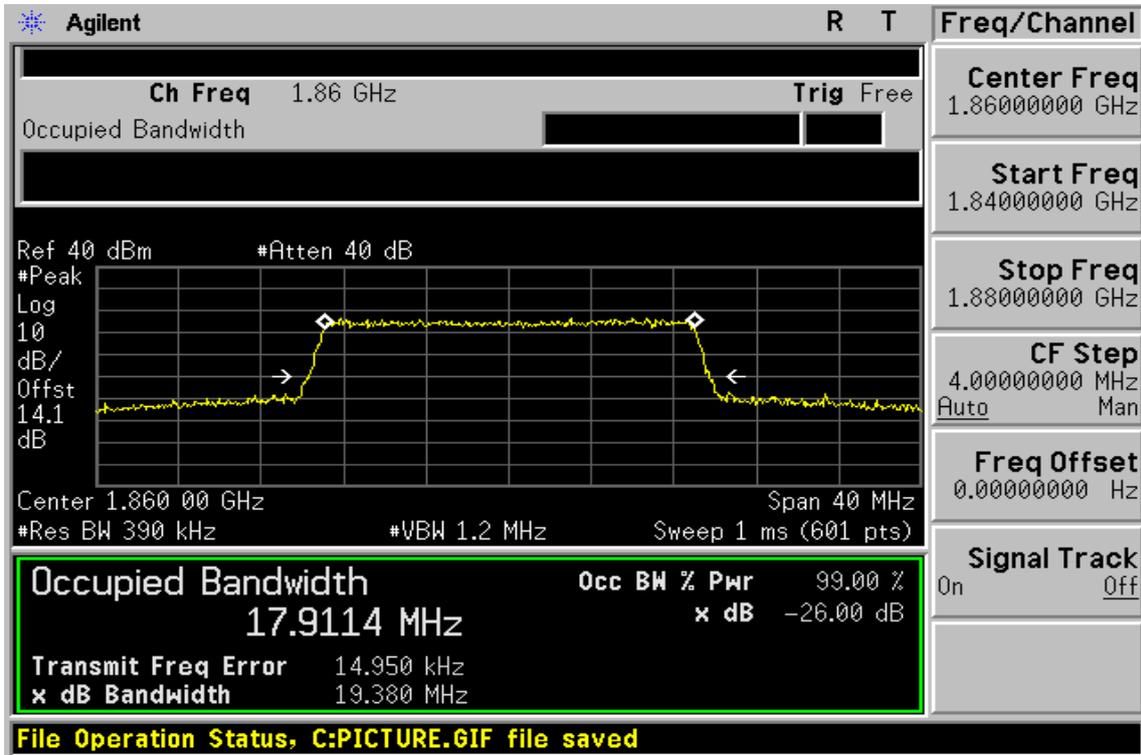
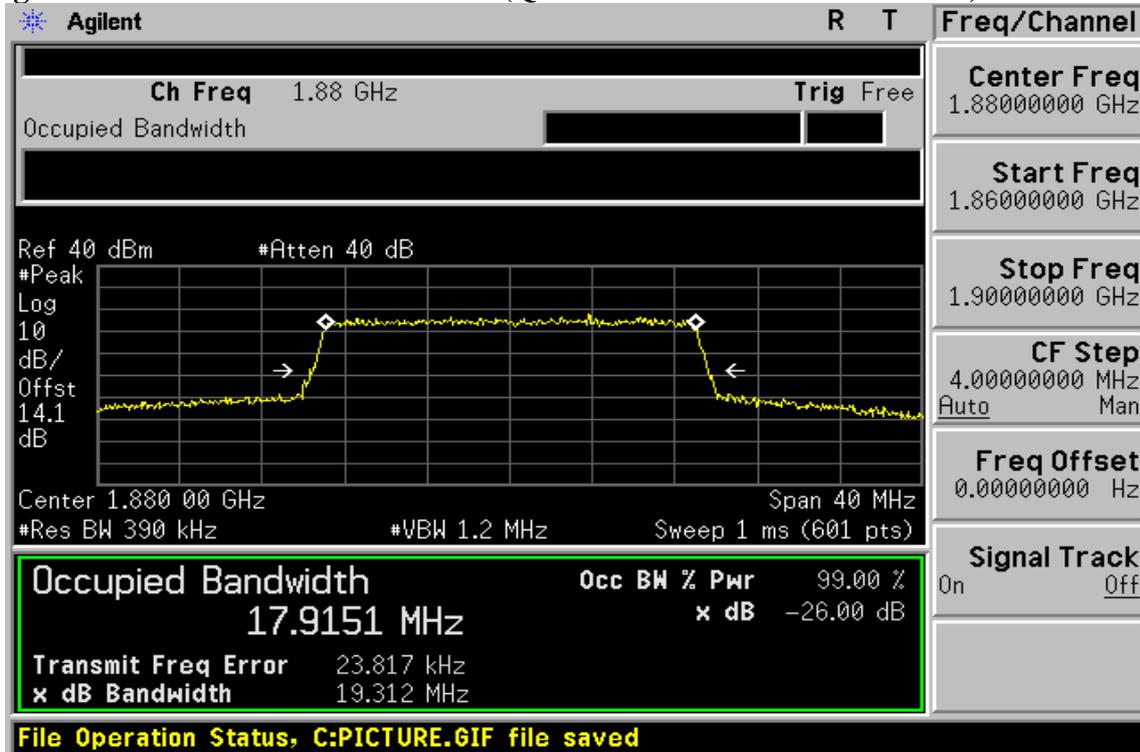


Figure 8-69: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 8-70: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High

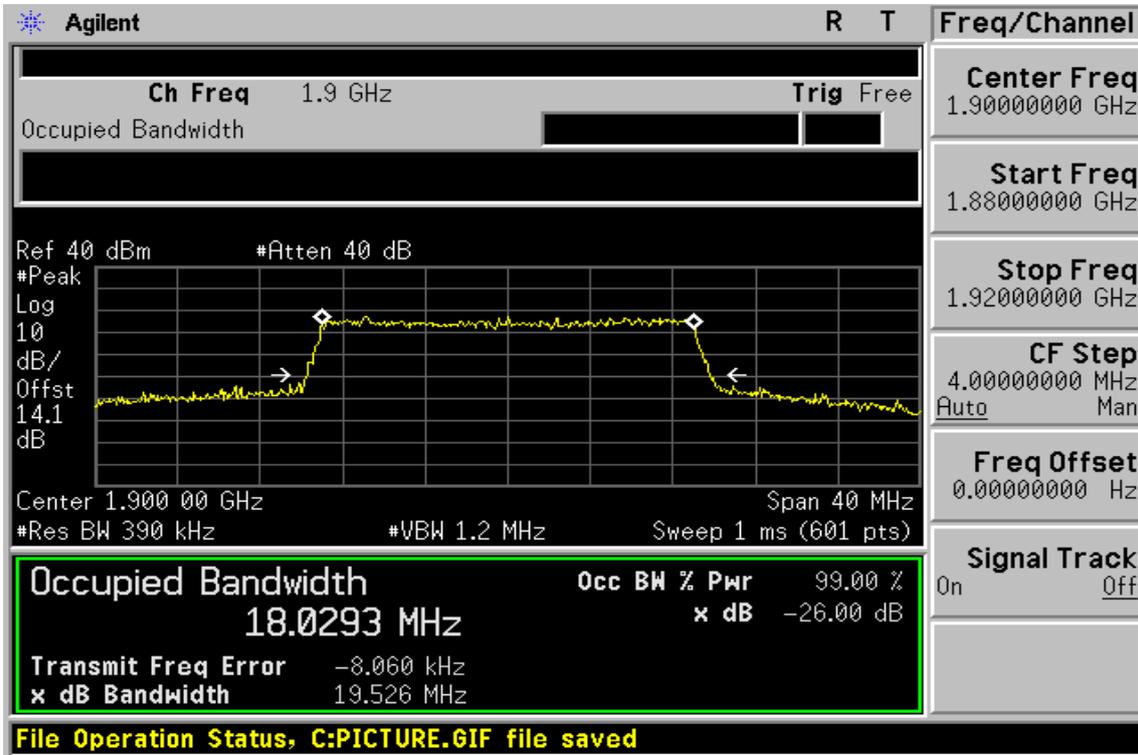
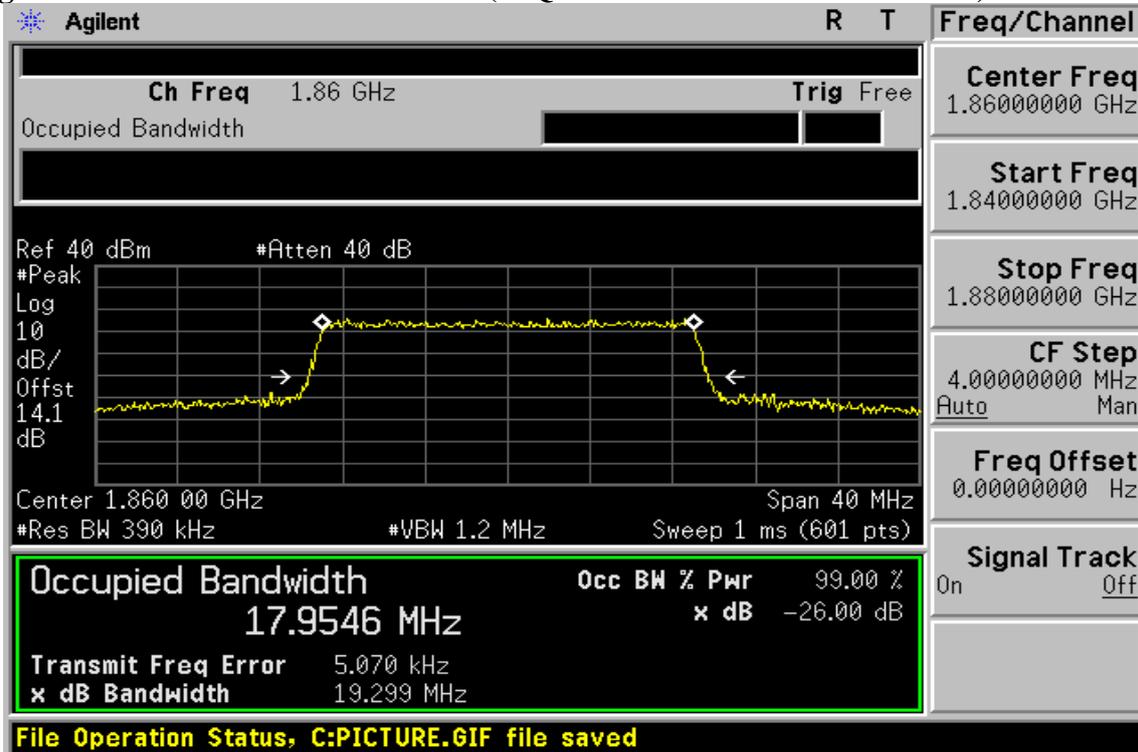


Figure 8-71: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Low



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Figure 8-72: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid

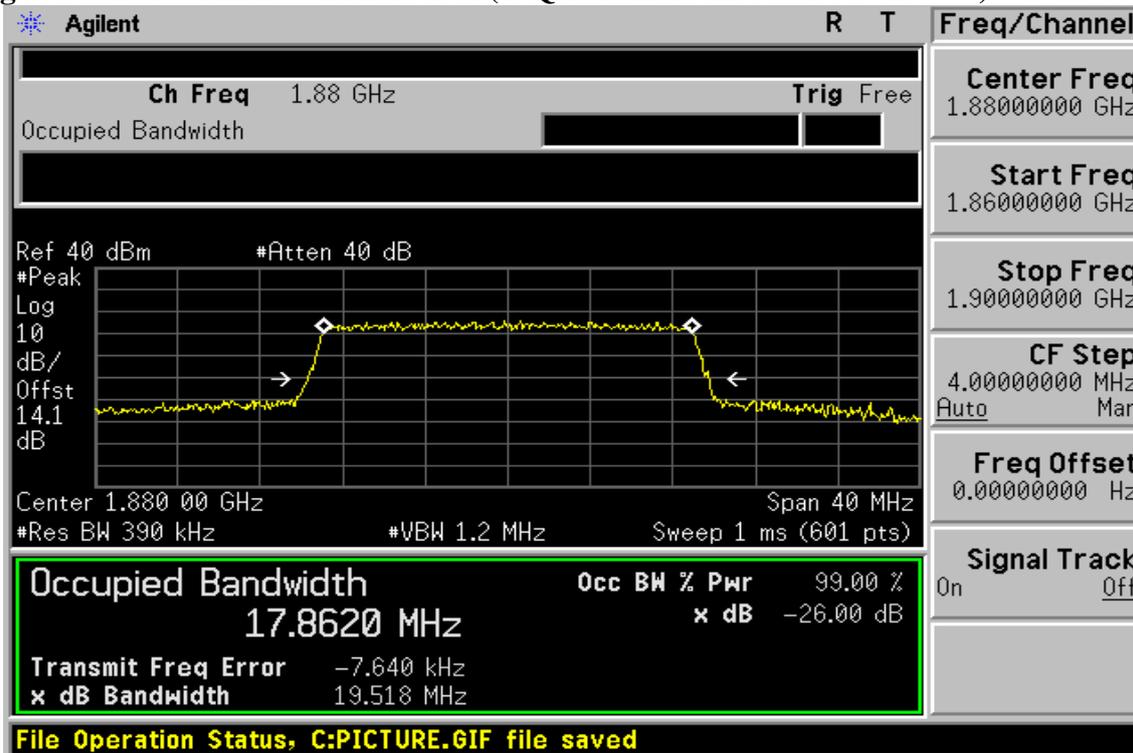
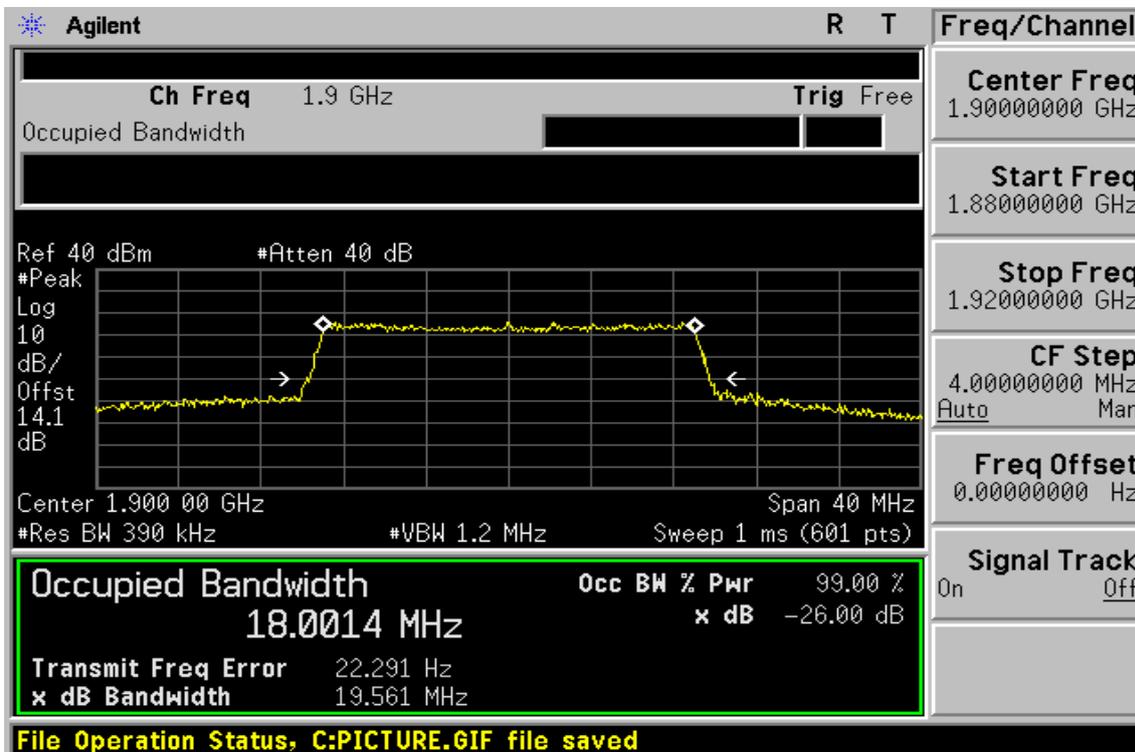


Figure 8-73: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel High



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Figure 8-74: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Low

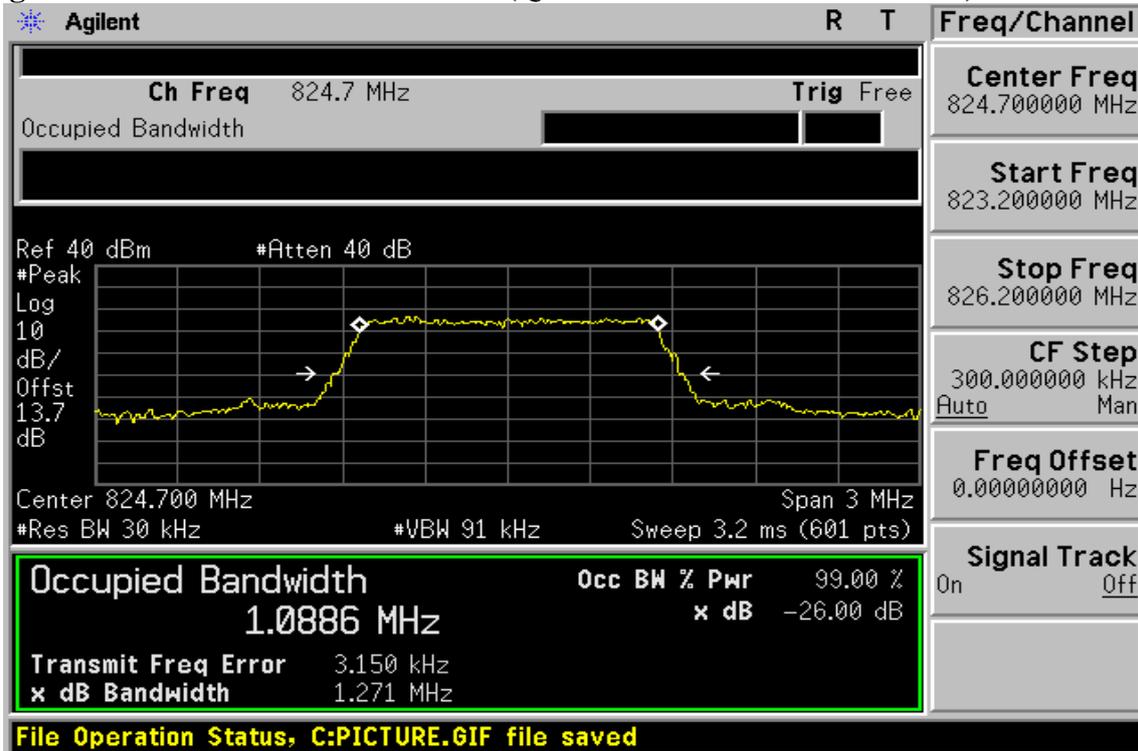
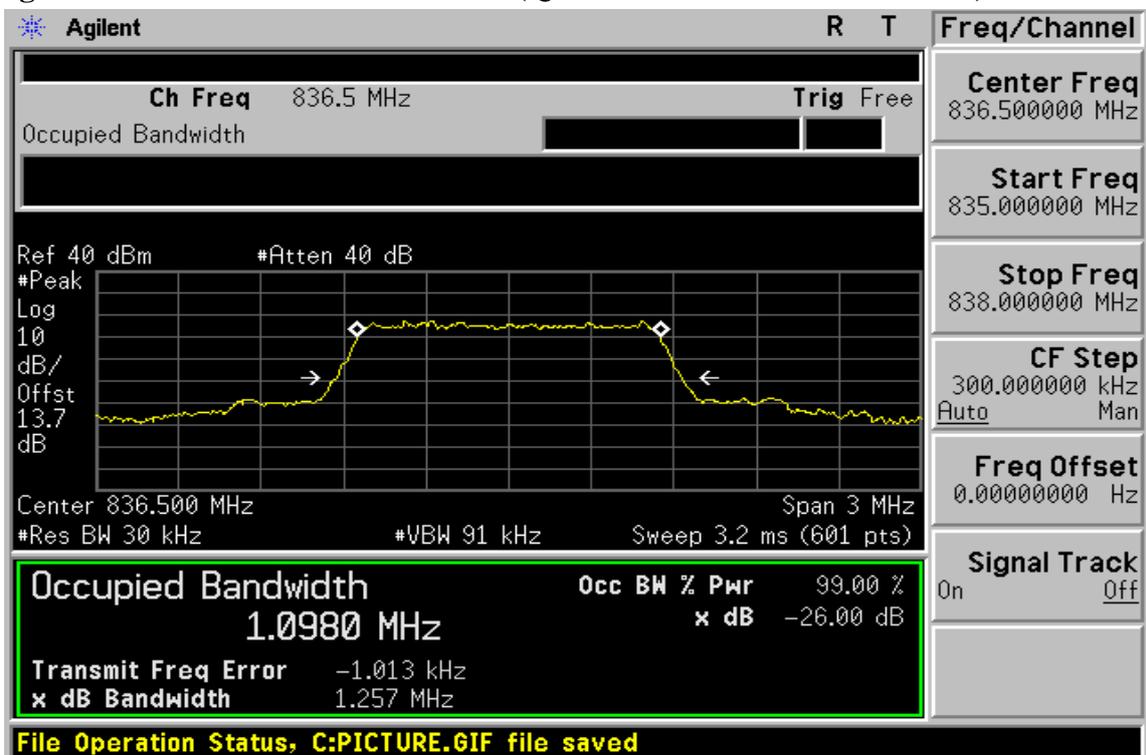


Figure 8-75: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 8-76: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0)Channel High

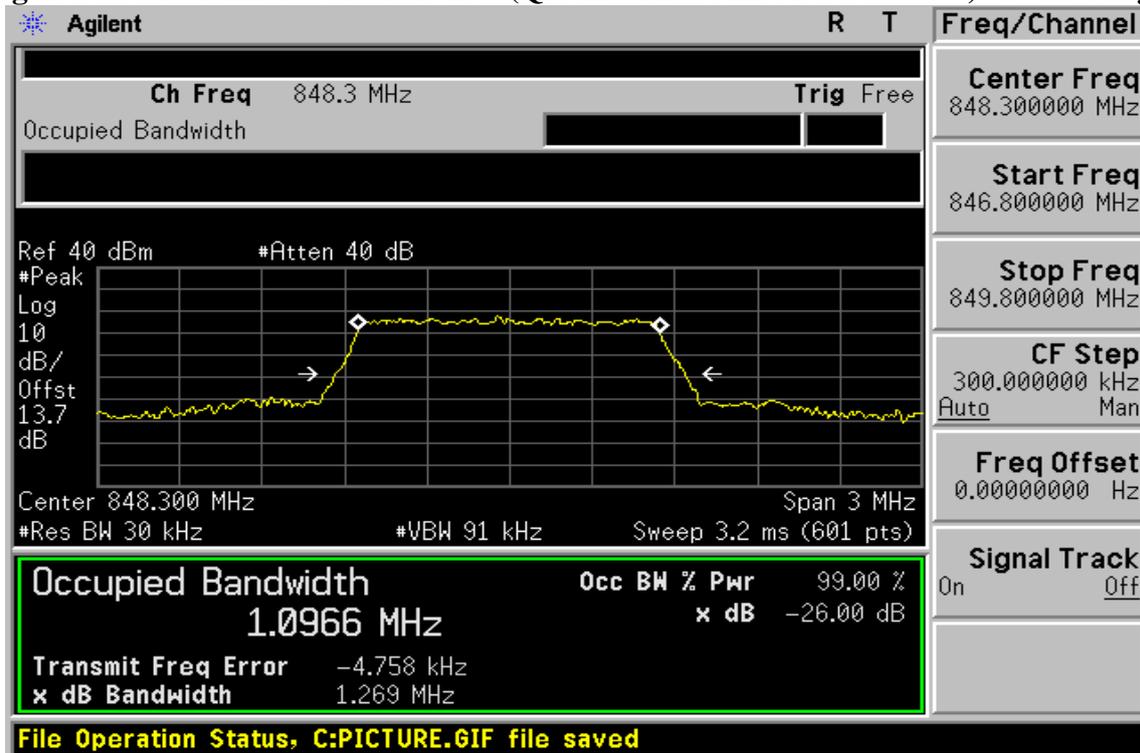
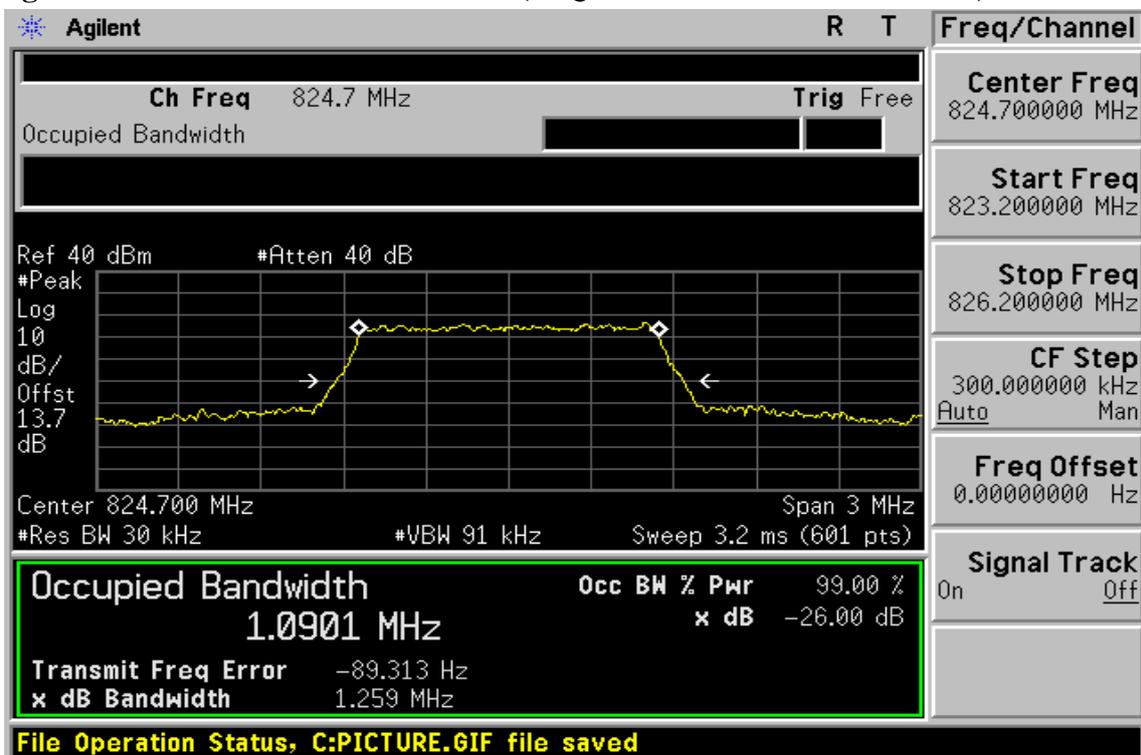


Figure 8-77: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0)Channel Low



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Figure 8-78: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0)Channel Mid

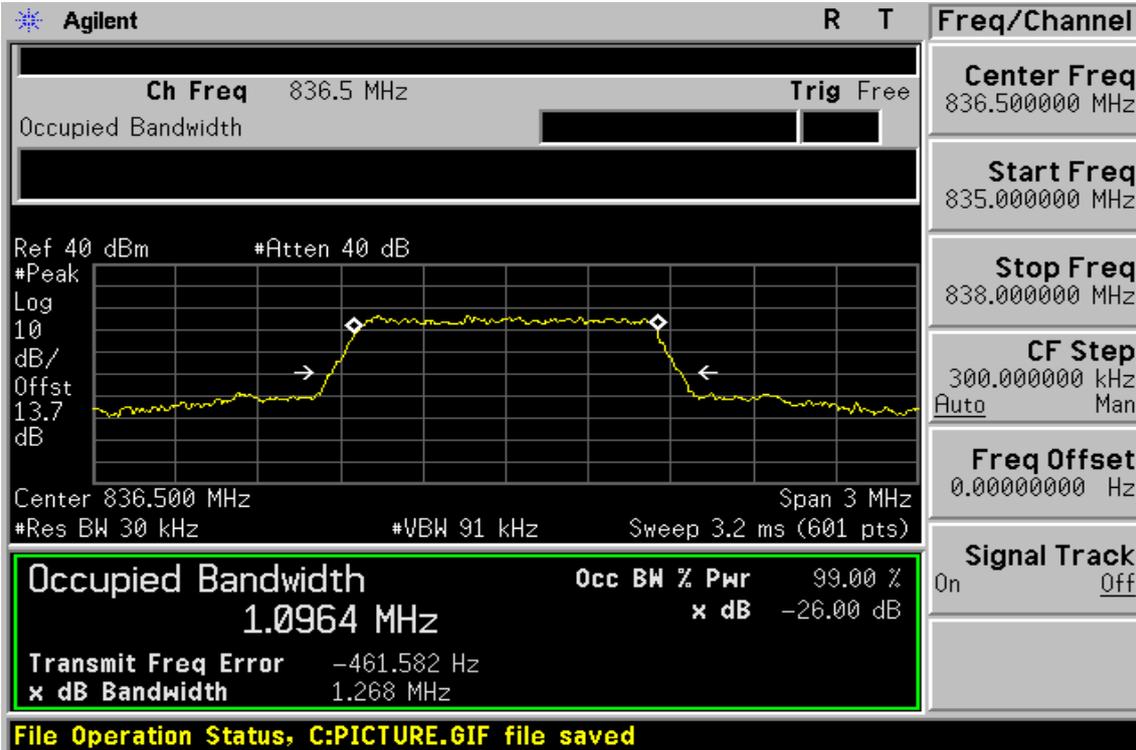
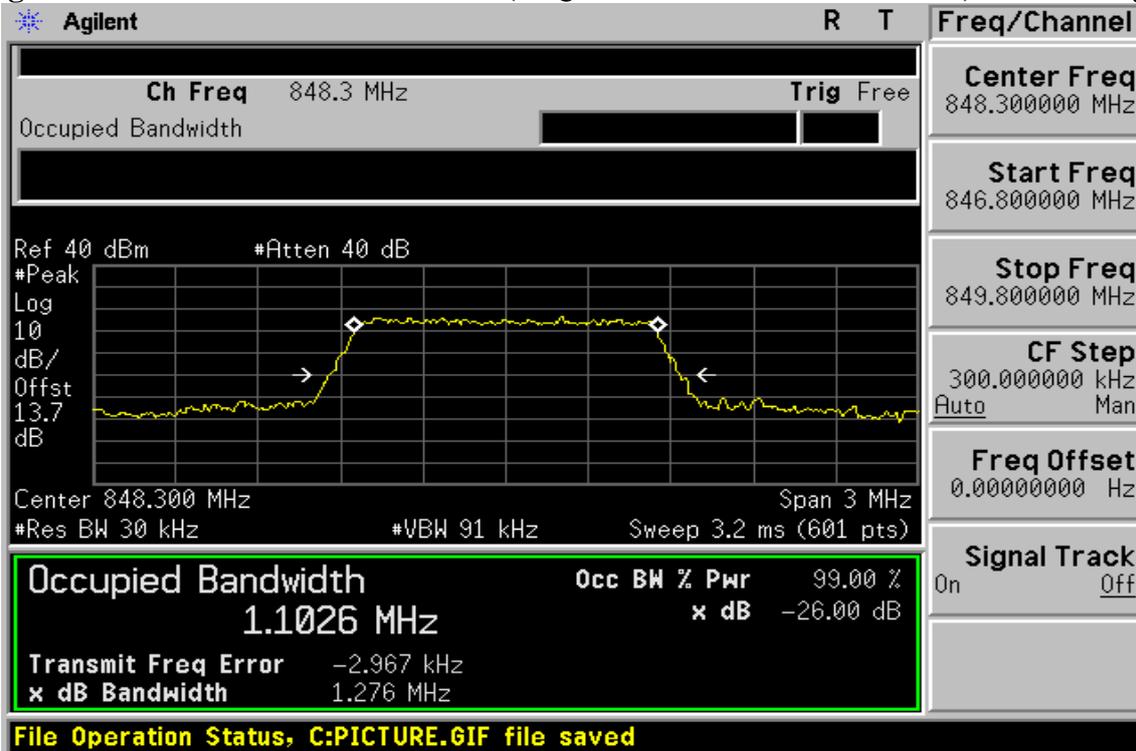


Figure 8-79: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0)Channel High



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Figure 8-80: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0)Channel Low

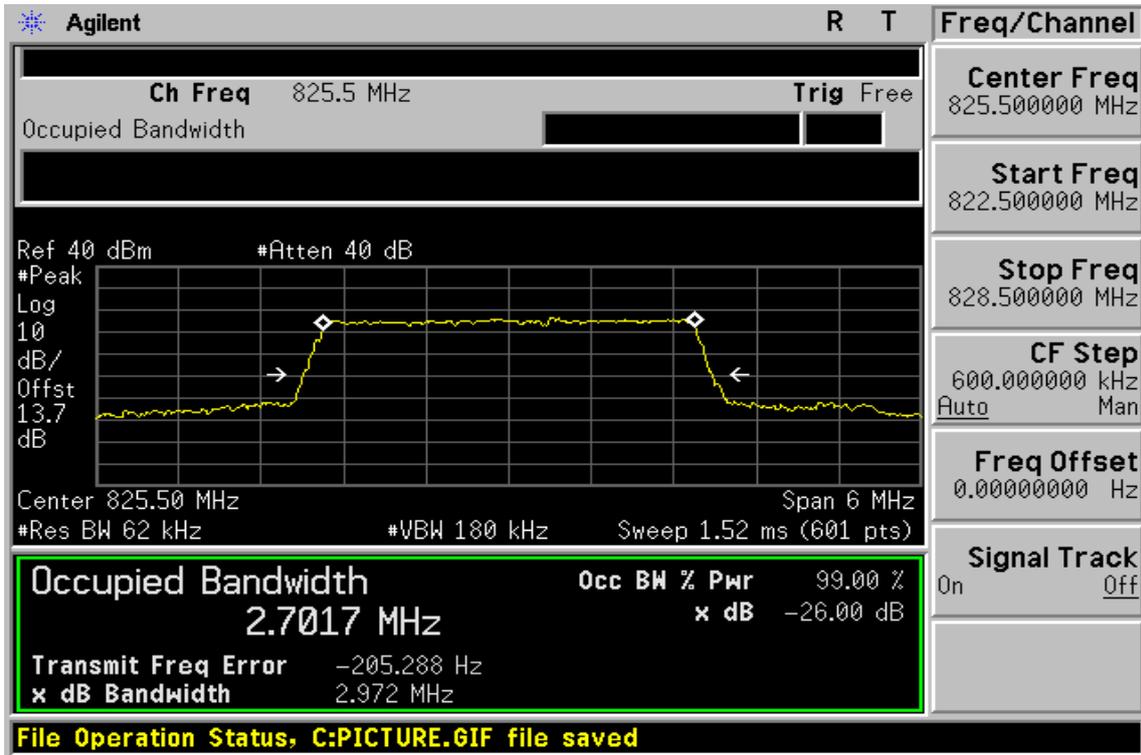
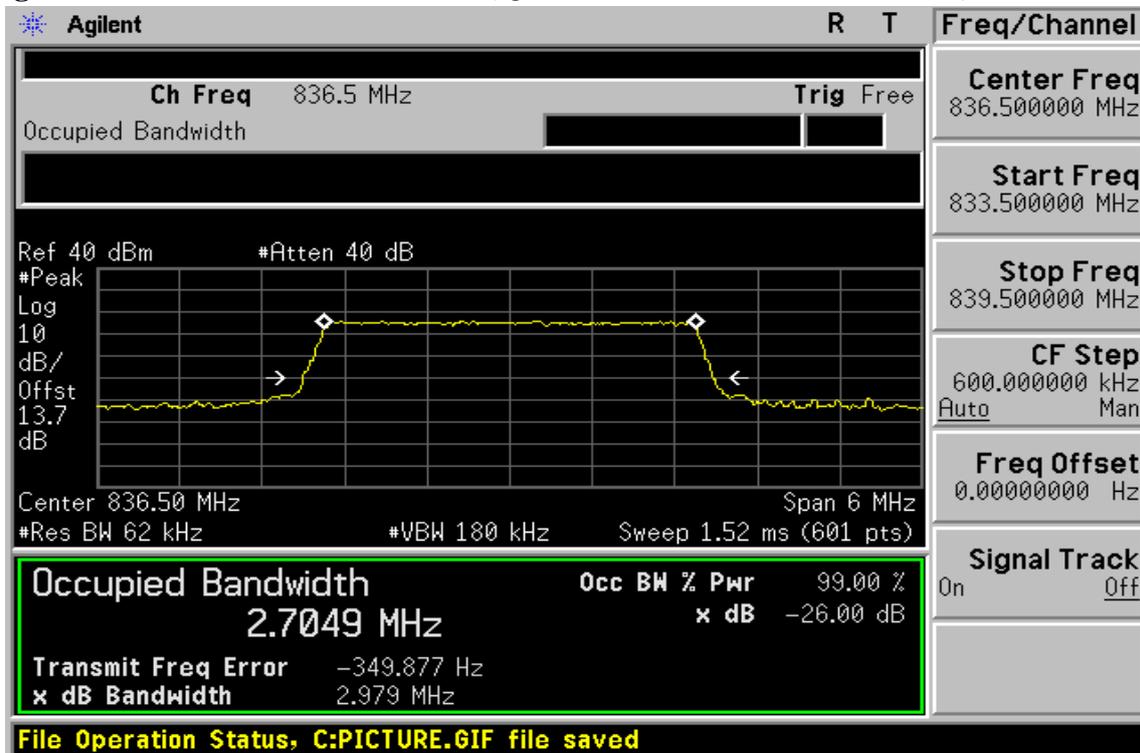


Figure 8-81: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0)Channel Mid



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Figure 8-82: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0)Channel High

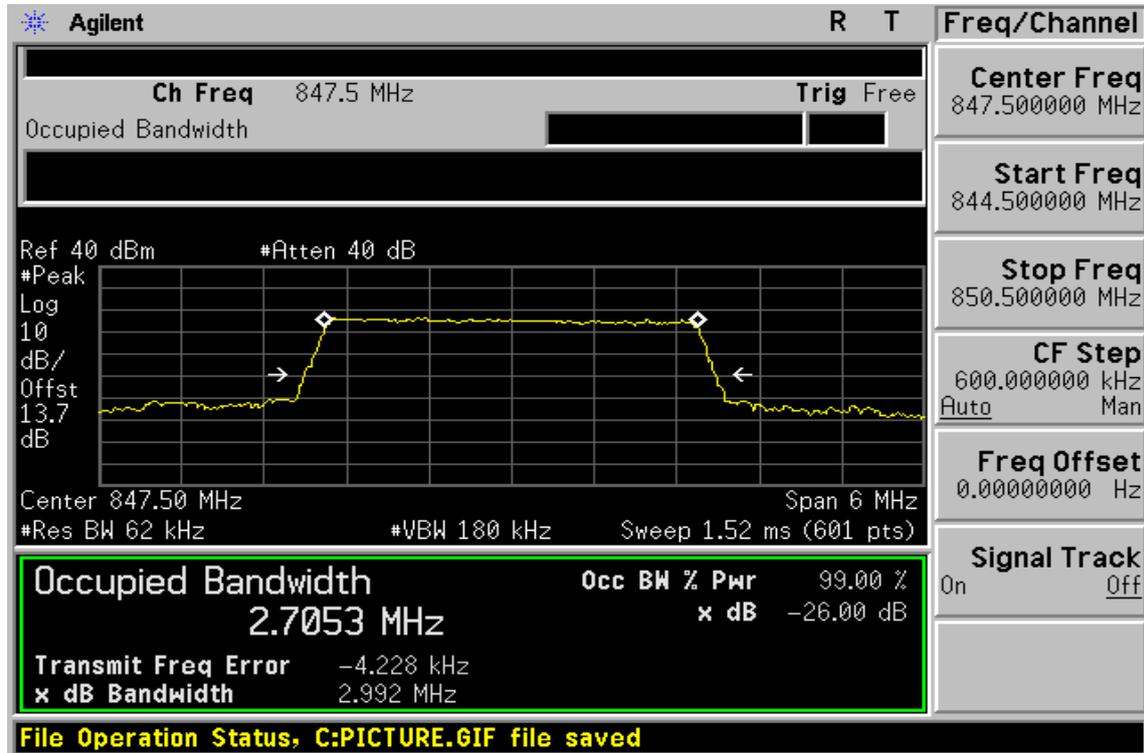
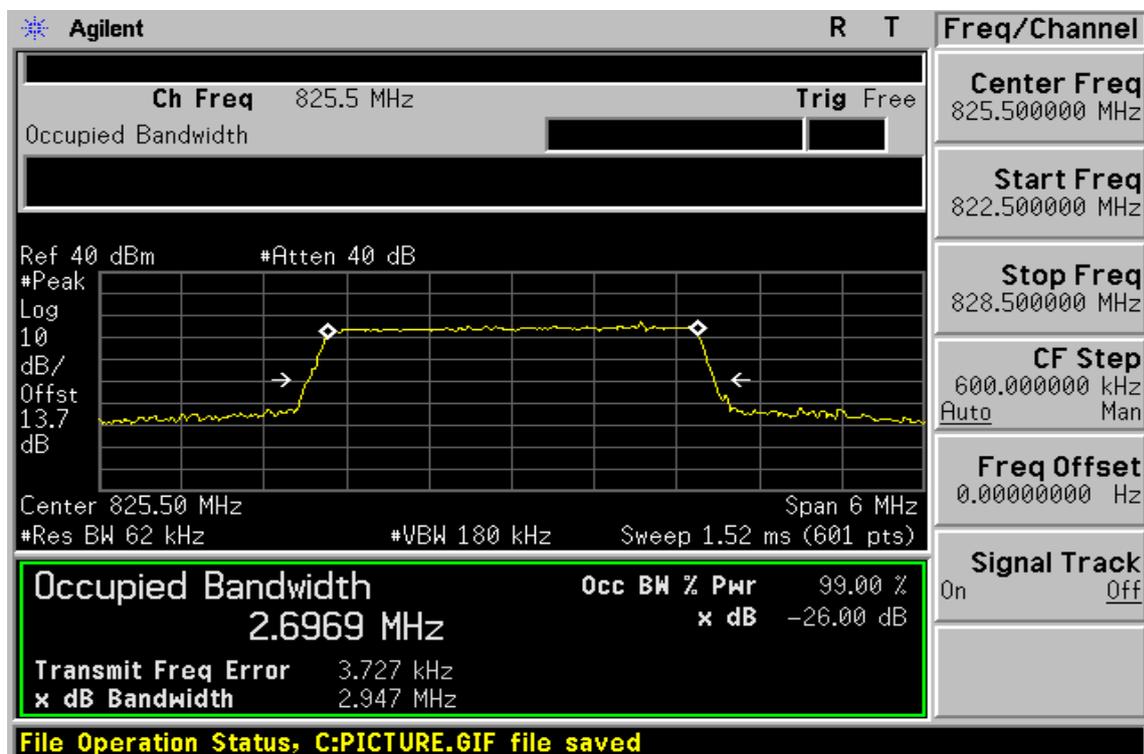


Figure 8-83: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0)Channel Low



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Figure 8-84: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0)Channel Mid

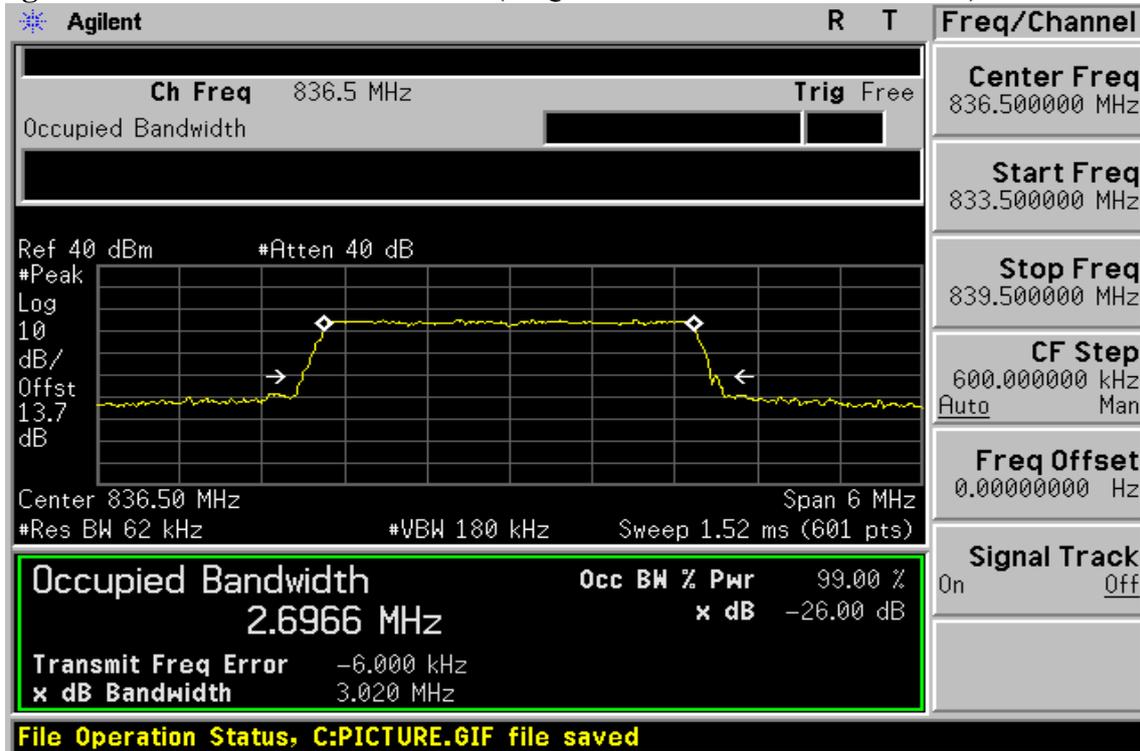
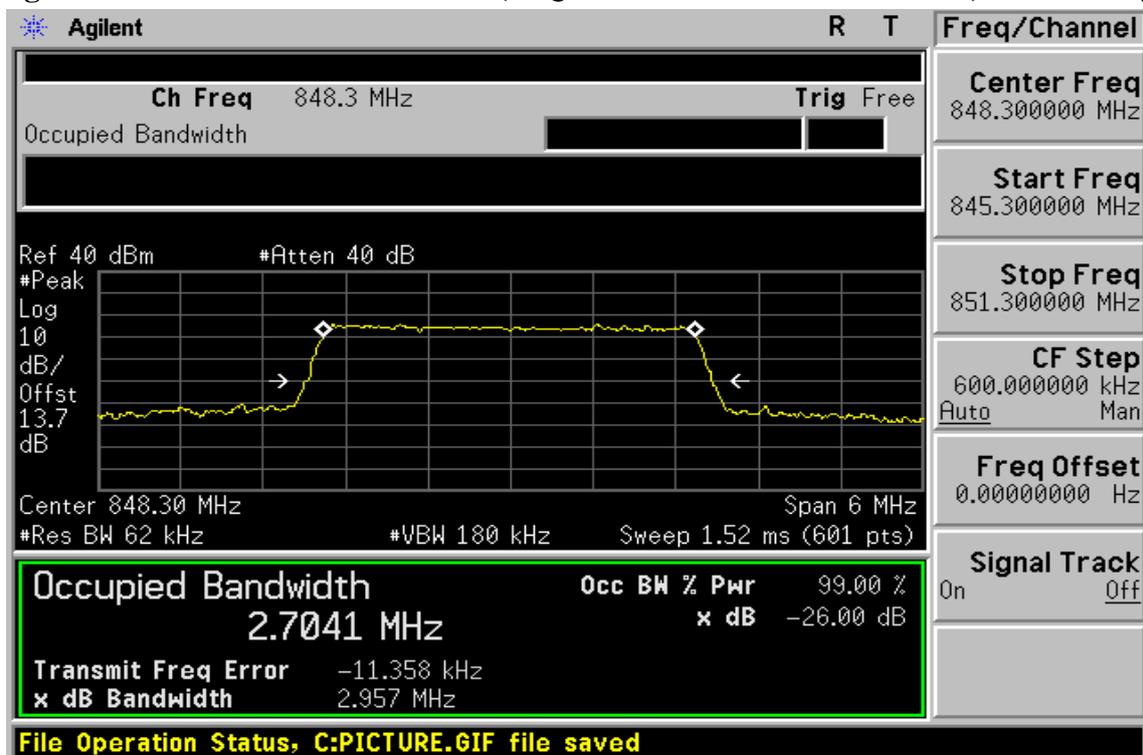


Figure 8-85: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0)Channel High



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Figure 8-86: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0)Channel Low

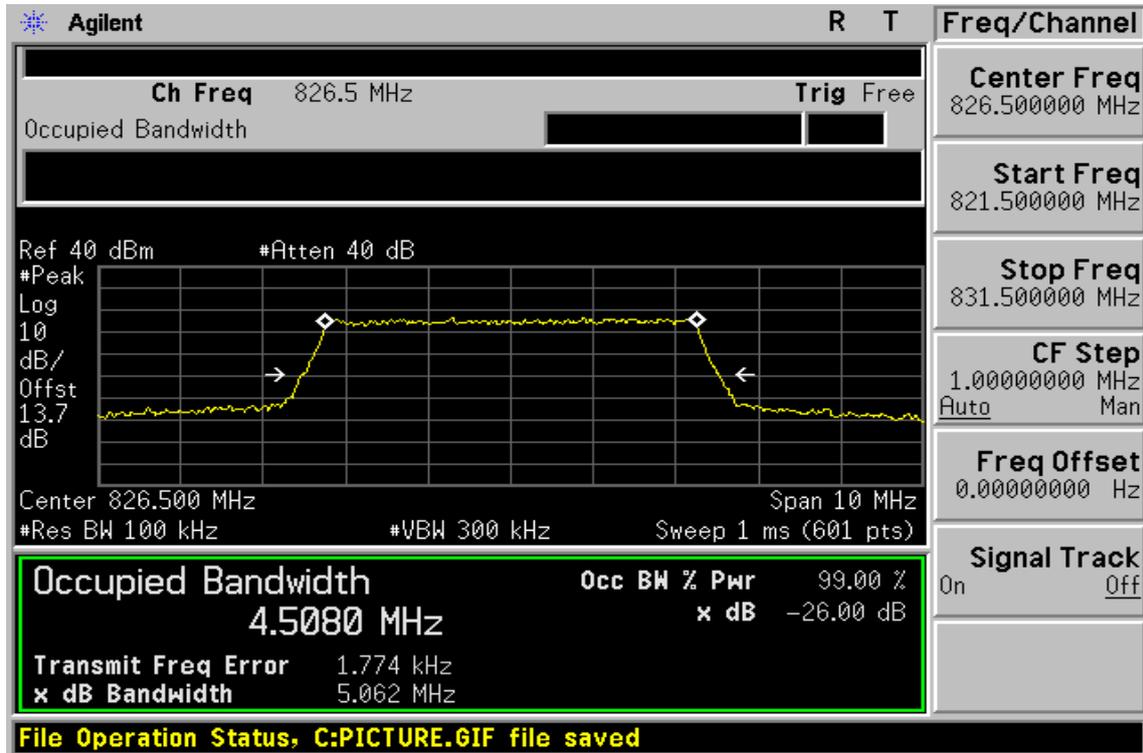
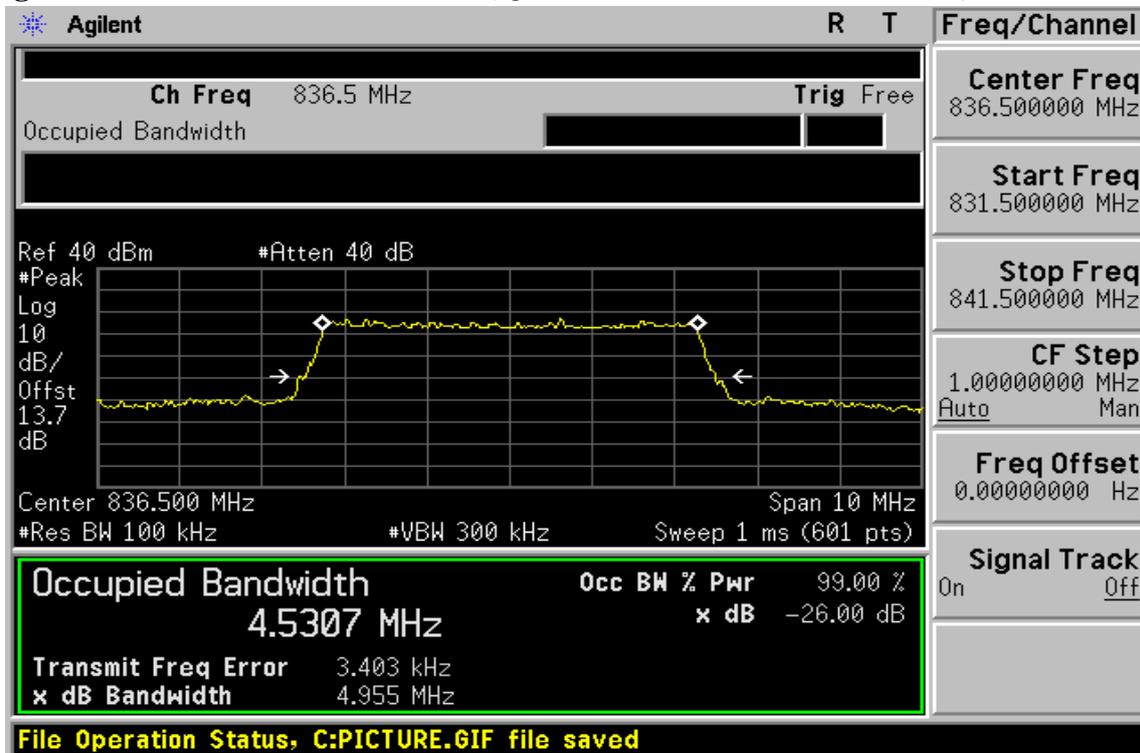


Figure 8-87: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0)Channel Mid



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Figure 8-88: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0)Channel High

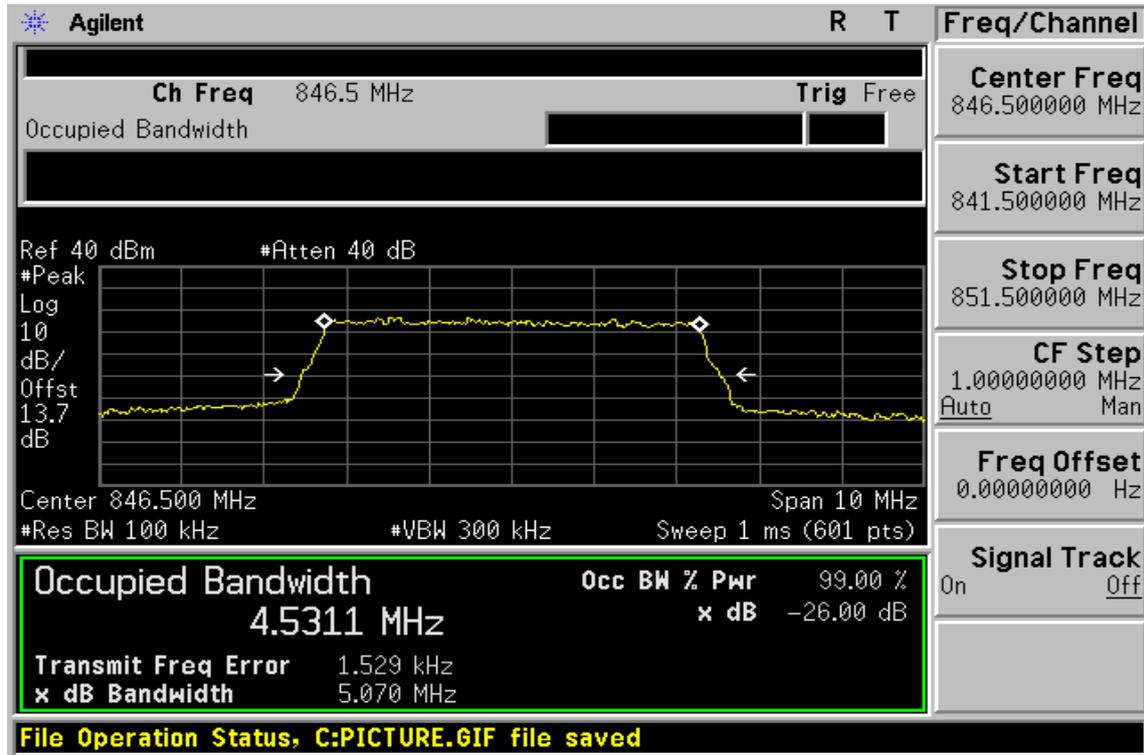
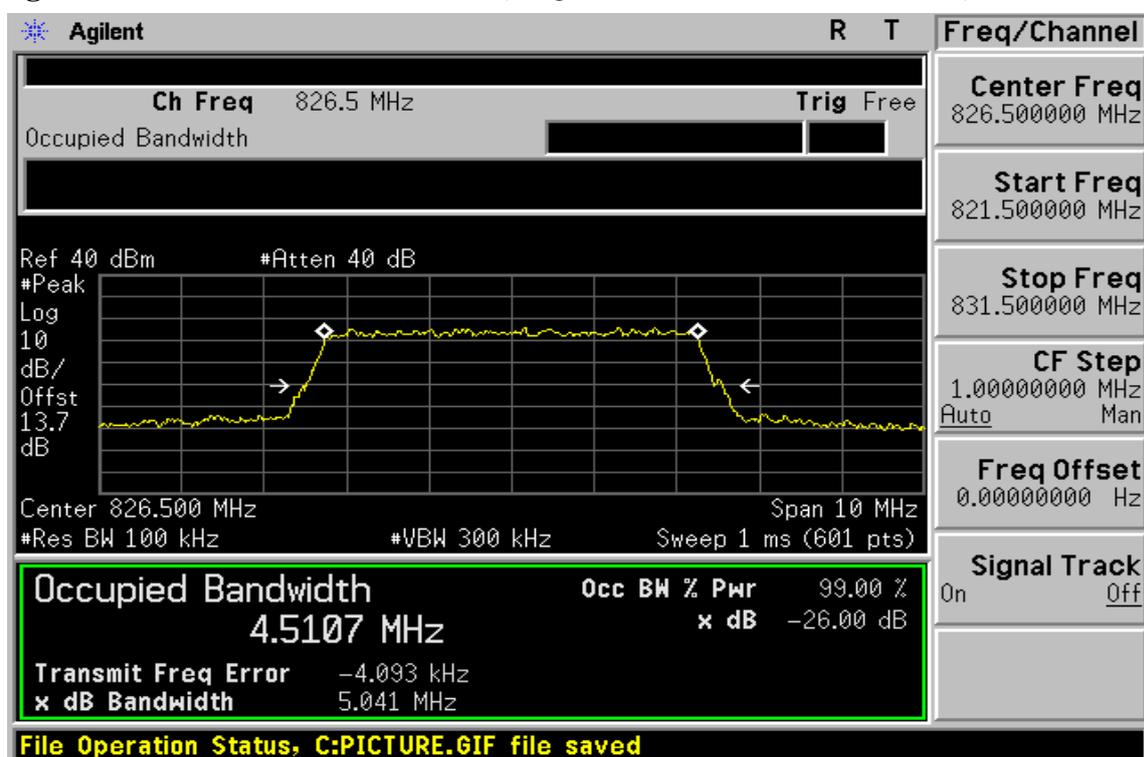


Figure 8-89: 5MHz BW LTE-Band 5(16QAMRB Number: 25 Offset: 0)Channel Low



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Figure 8-90: 5MHz BW LTE-Band 5(16QAMRB Number: 25 Offset: 0)Channel Mid

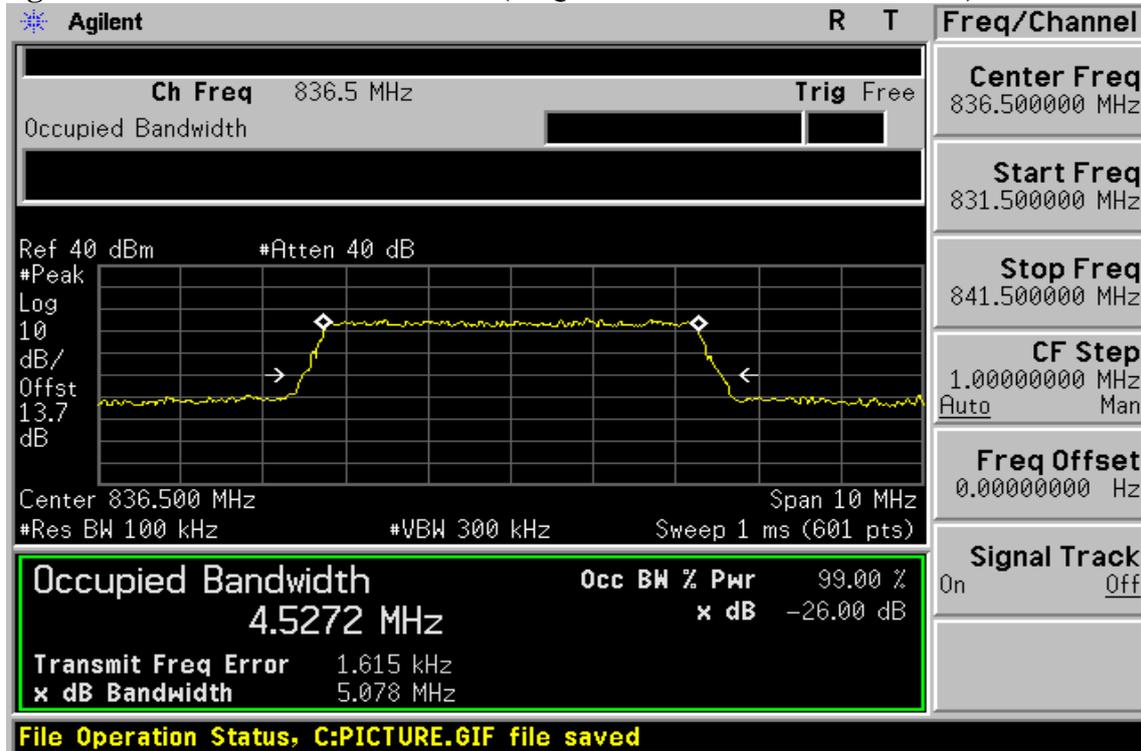
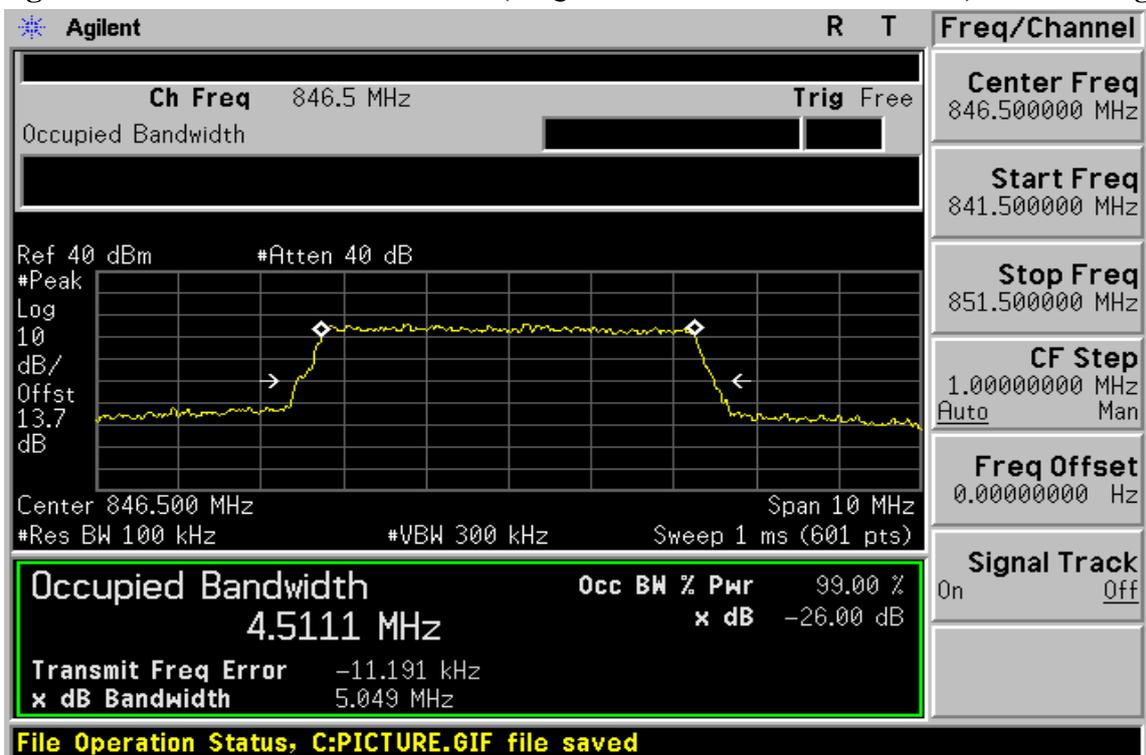


Figure 8-91: 5MHz BW LTE-Band 5(16QAMRB Number: 25 Offset: 0)Channel High



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Figure 8-92: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0)Channel Low

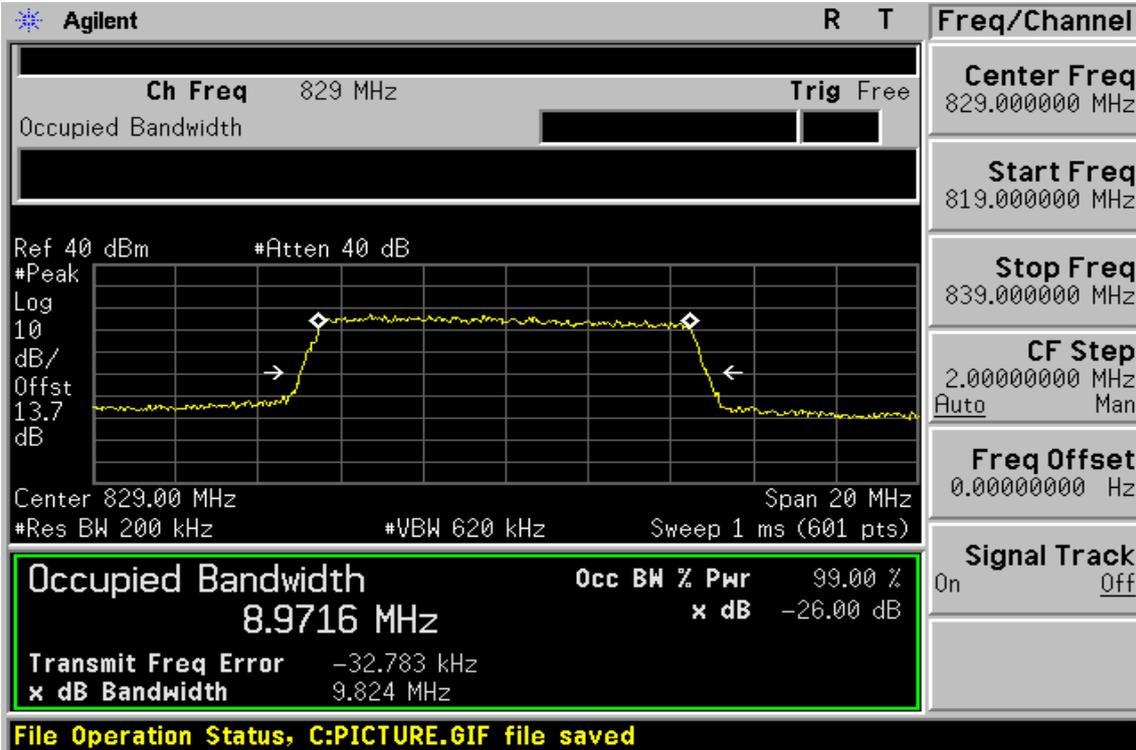
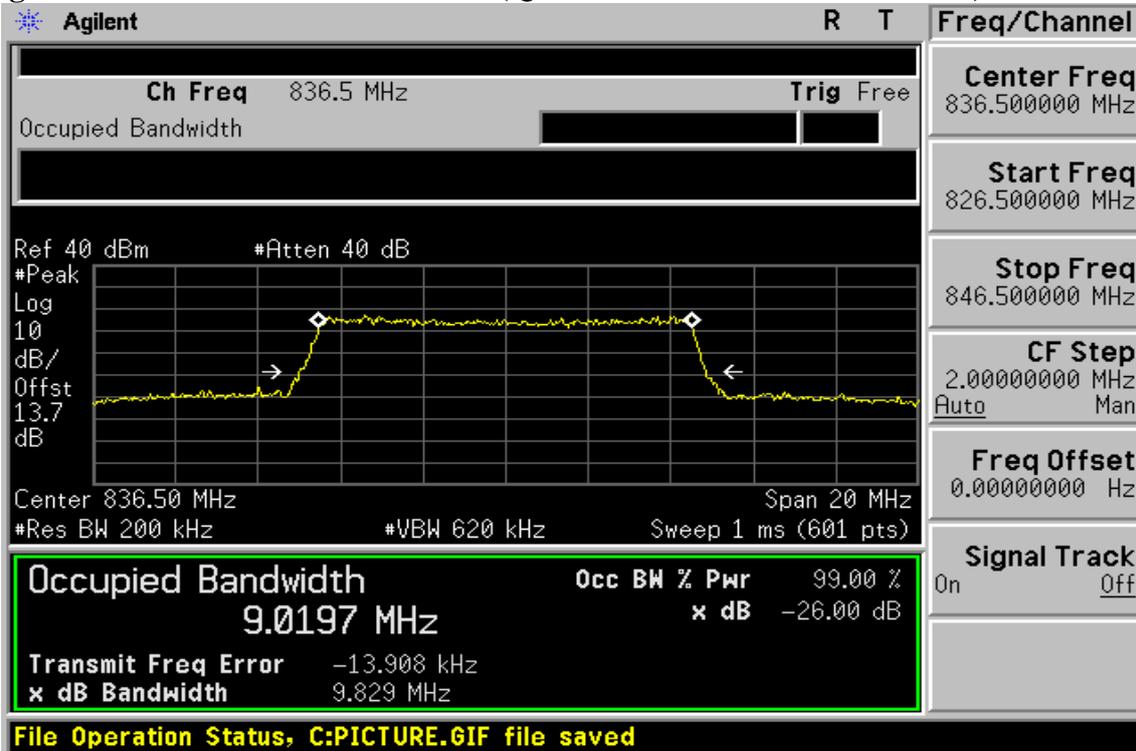


Figure 8-93: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0)Channel Mid



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Figure 8-94: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0)Channel High

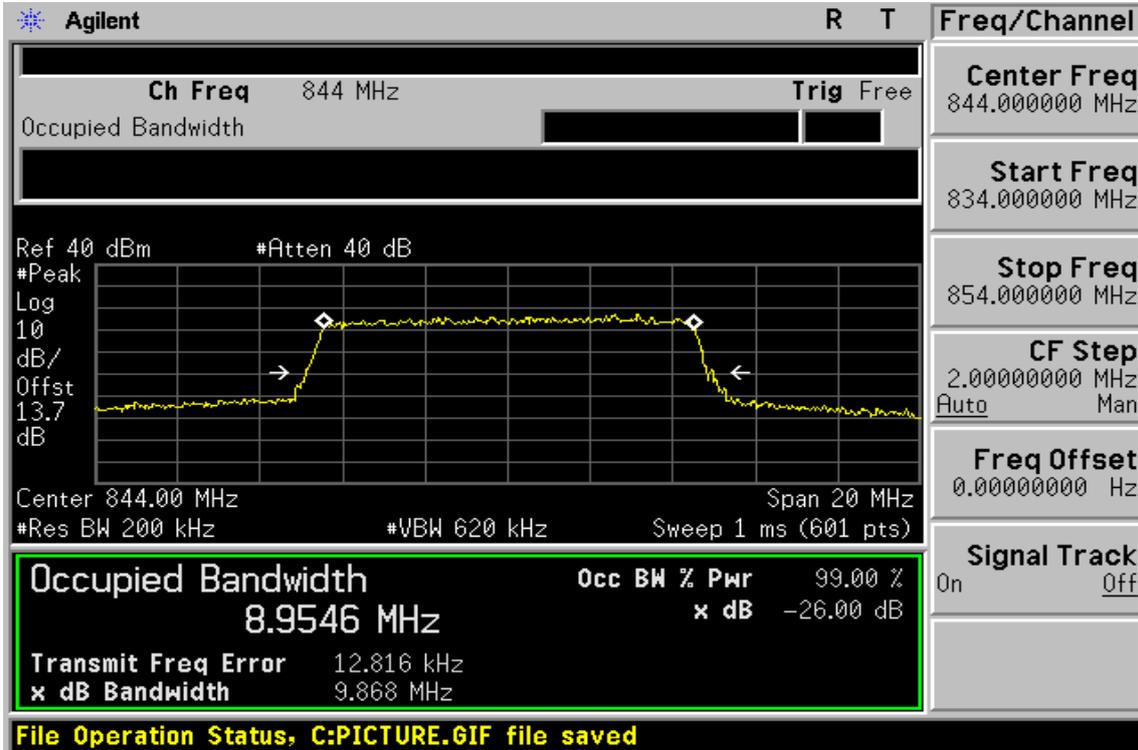
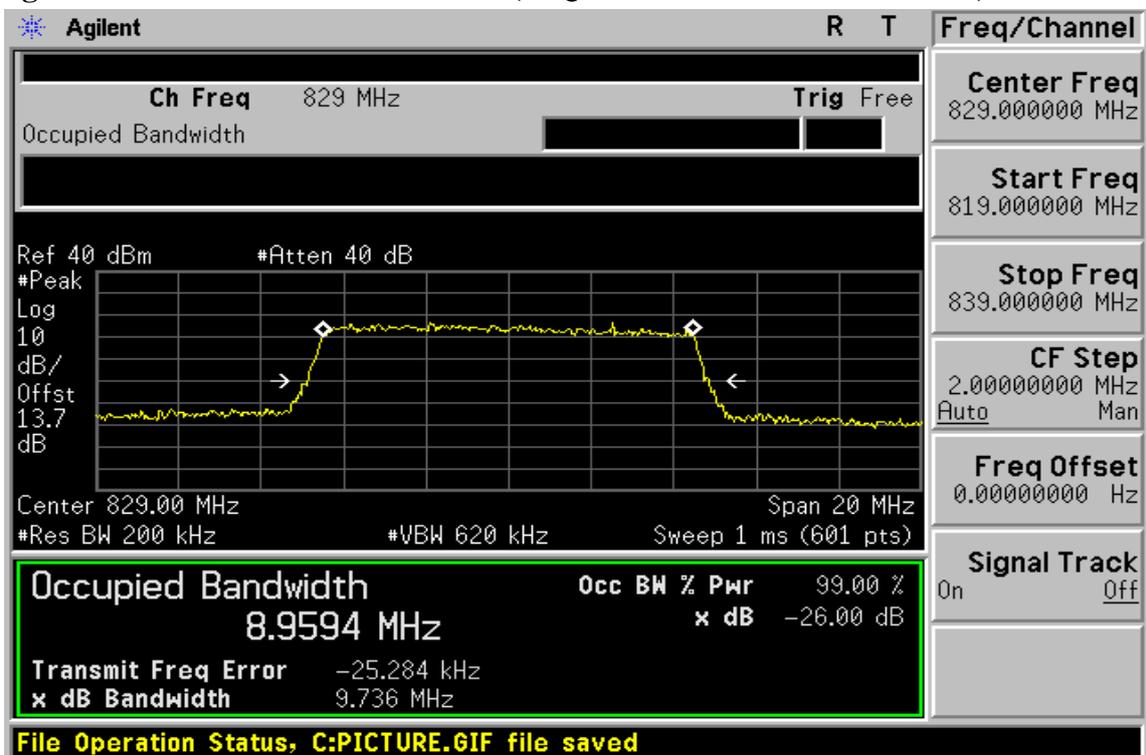


Figure 8-95: 10MHz BW LTE-Band 5(16QAMRB Number: 50 Offset: 0)Channel Low



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Figure 8-96: 10MHz BW LTE-Band 5(16QAMRB Number: 50 Offset: 0)Channel Mid

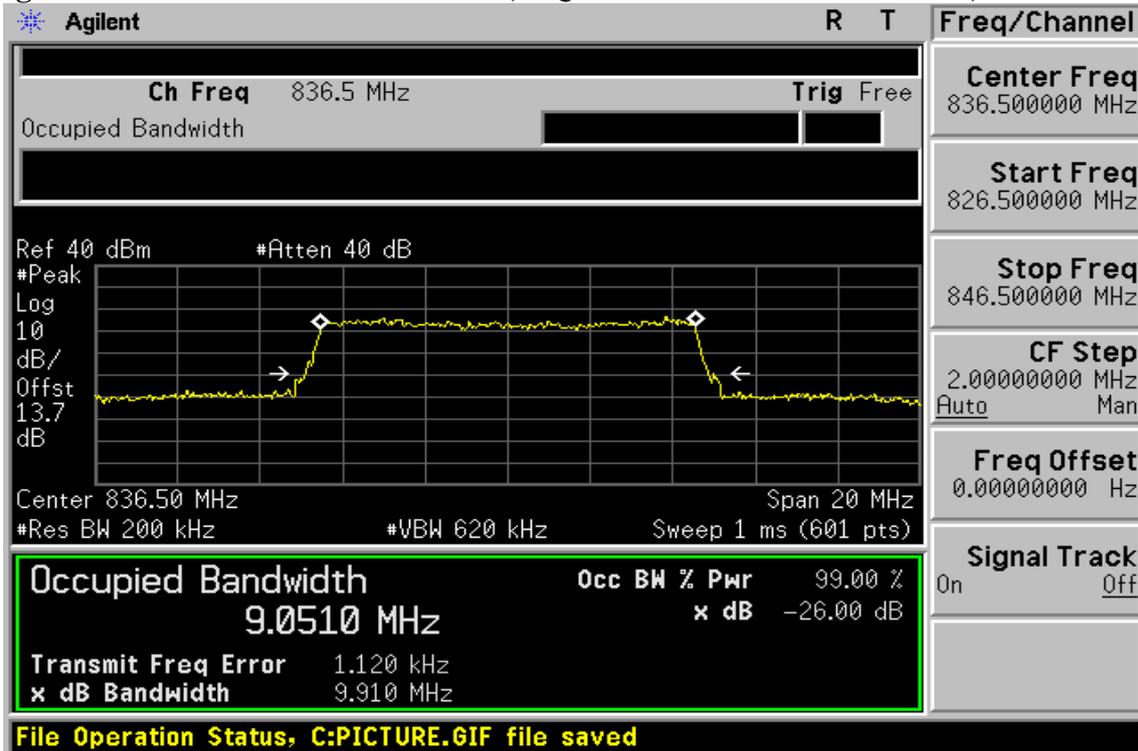
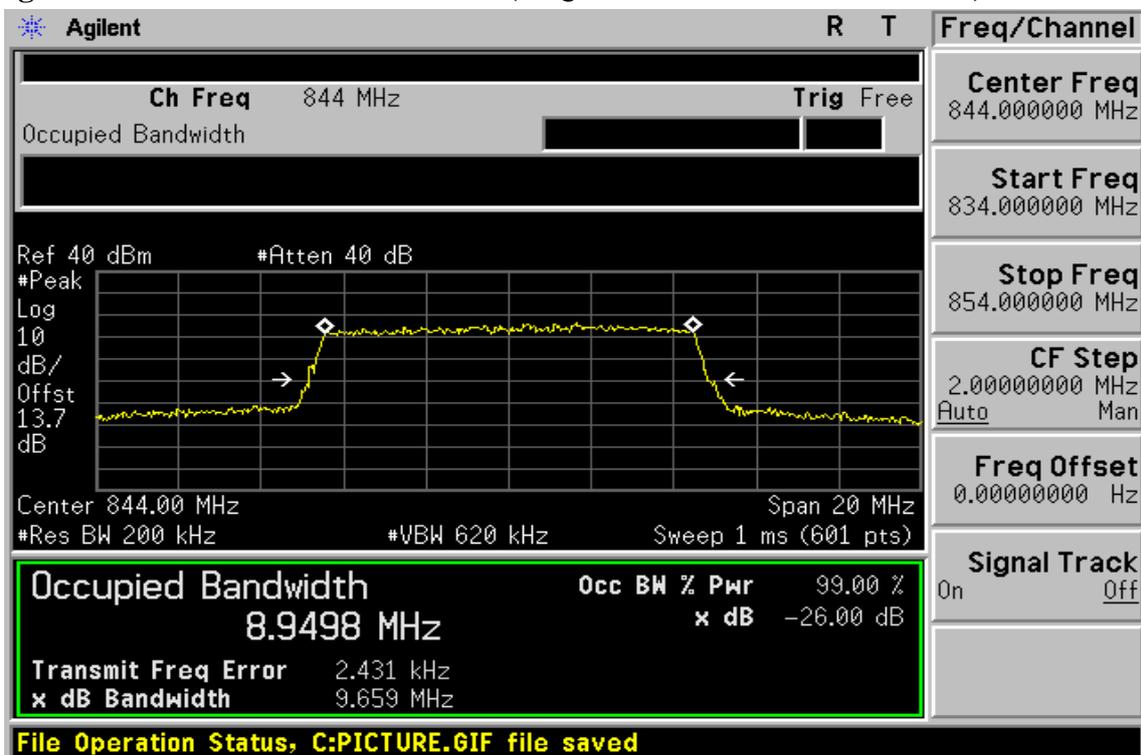


Figure 8-97: 10MHz BW LTE-Band 5(16QAMRB Number: 50 Offset: 0)Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm). §27.53 (m) (4) shall not be less than $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

100KHz Bandedge:

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

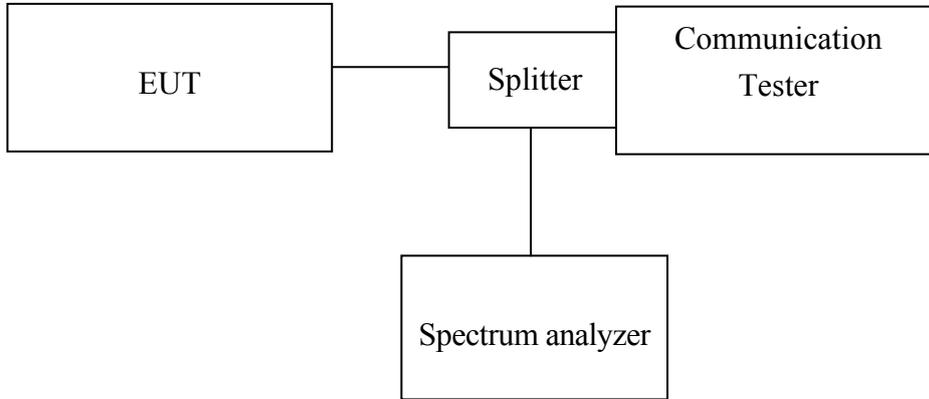
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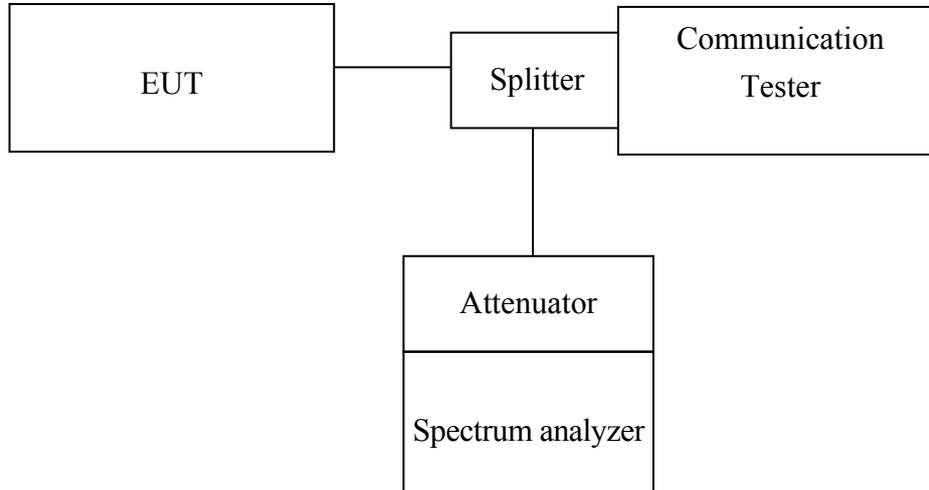
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9.2. Test SET-UP:

Out of band emission



Band Edge



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9.3. Measurement Procedure:

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm.

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

Conducted Emission:

- 1、 To connect Antenna Port of EUT to Spectrum.
- 2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3、 Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G ,10G to 15G and 15G to 20GHz
- 4、 Via Software, combine 6 spans of frequency range into one plot

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to next pages.

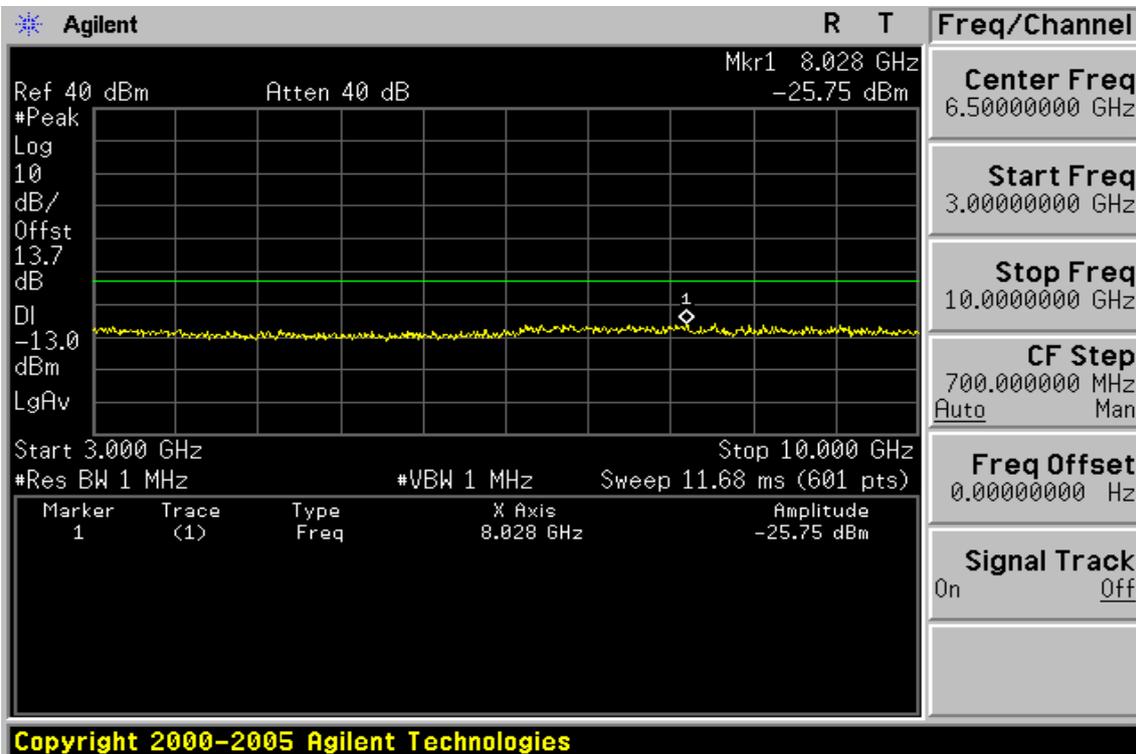
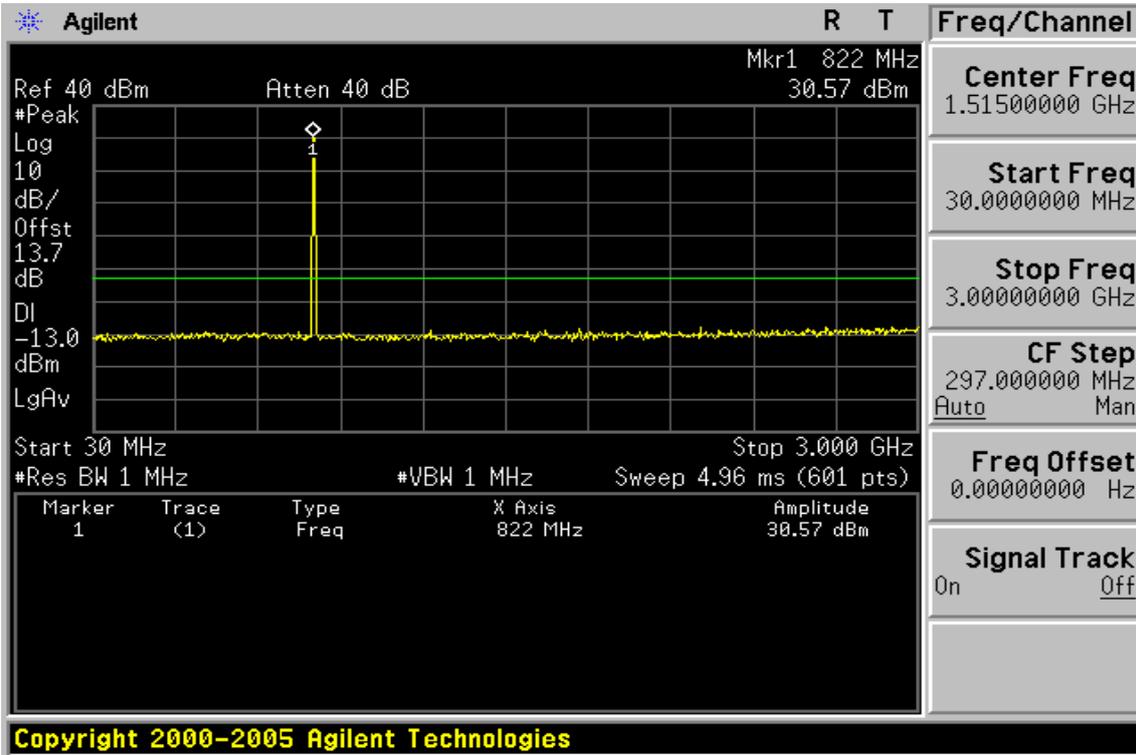
NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest

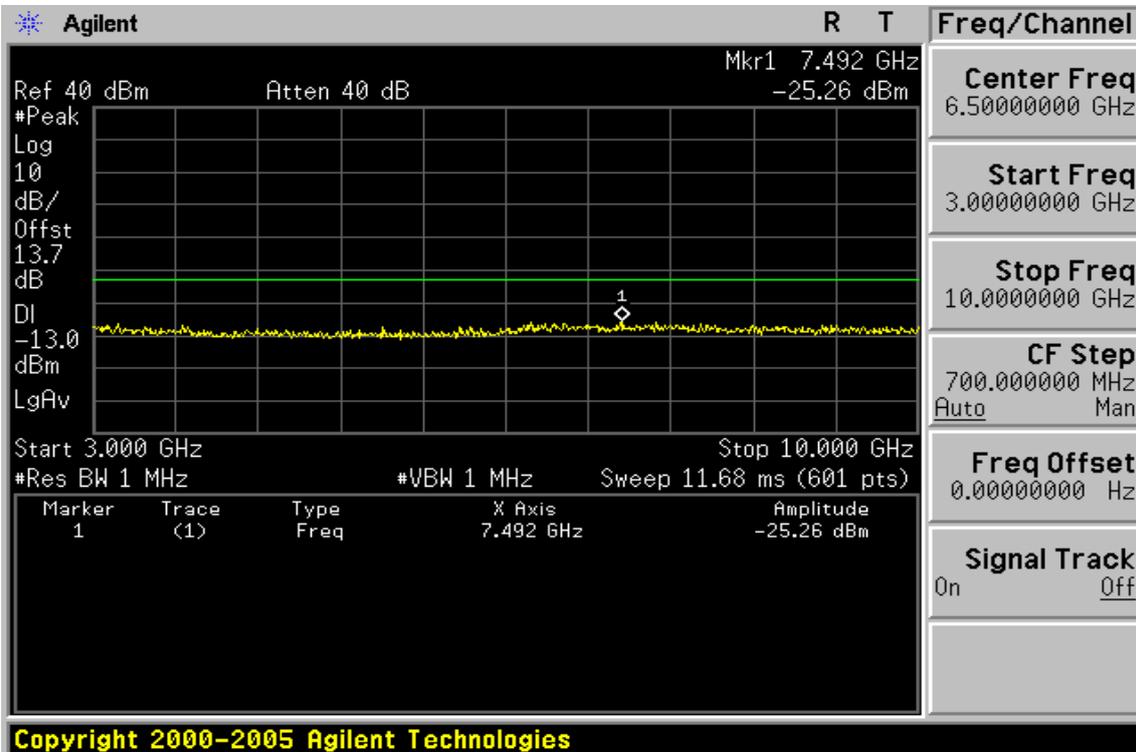
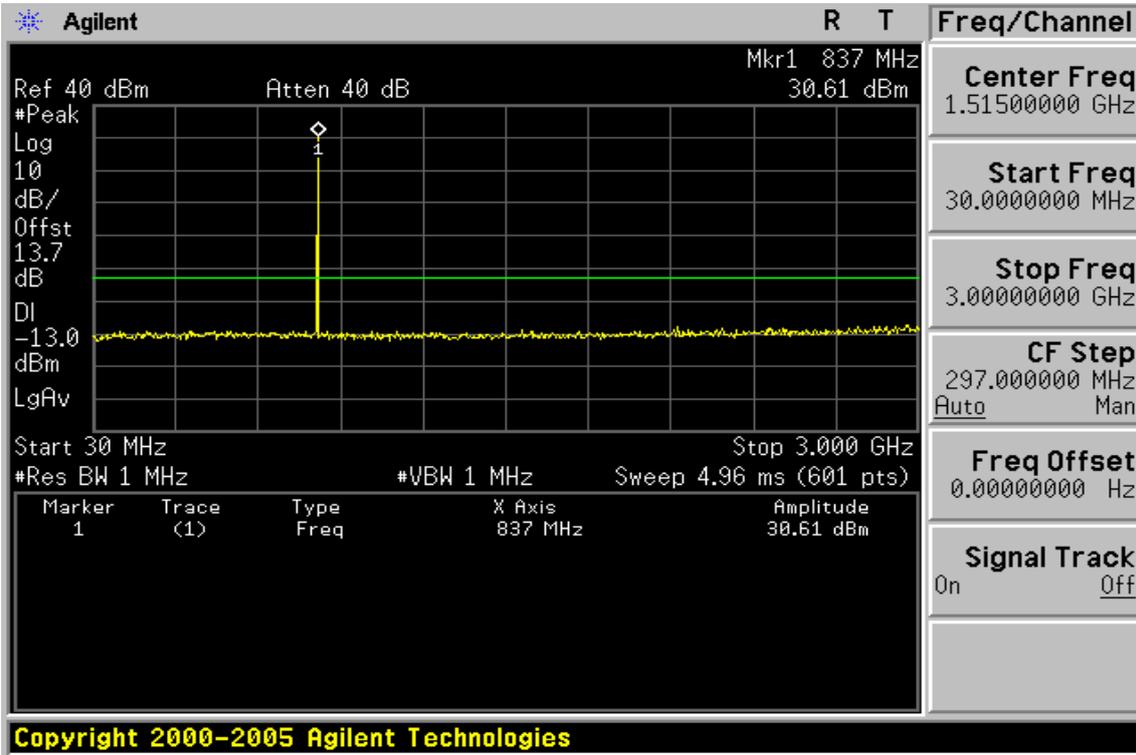


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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid

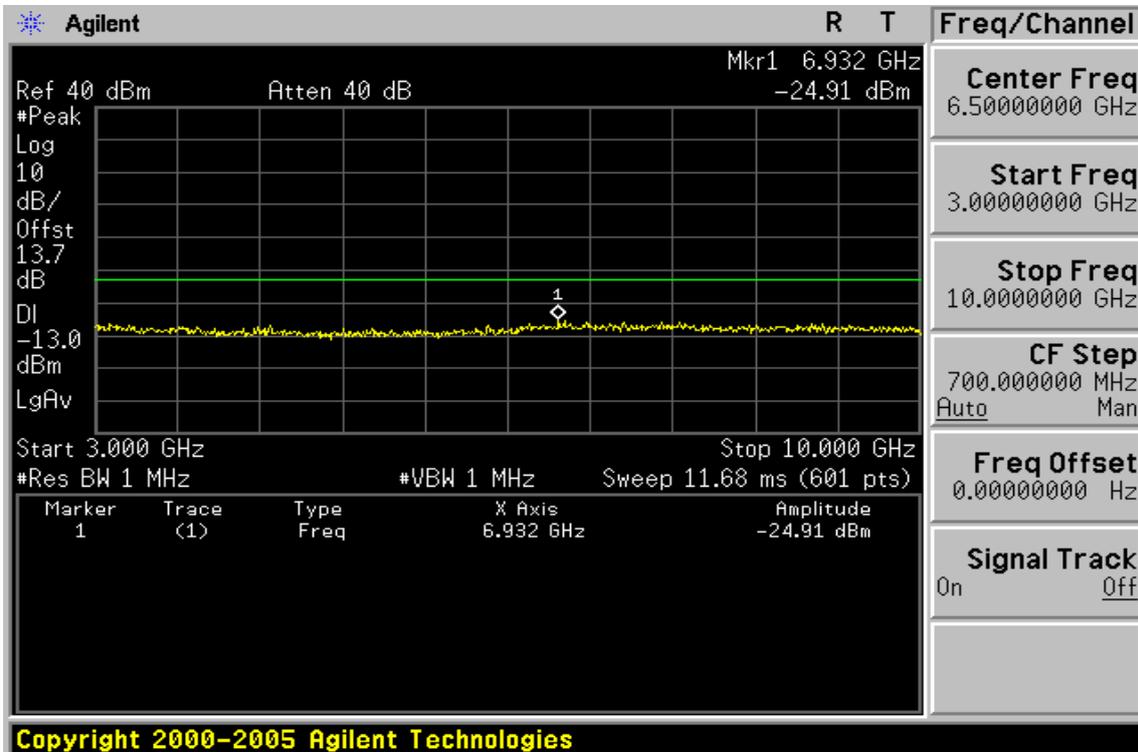
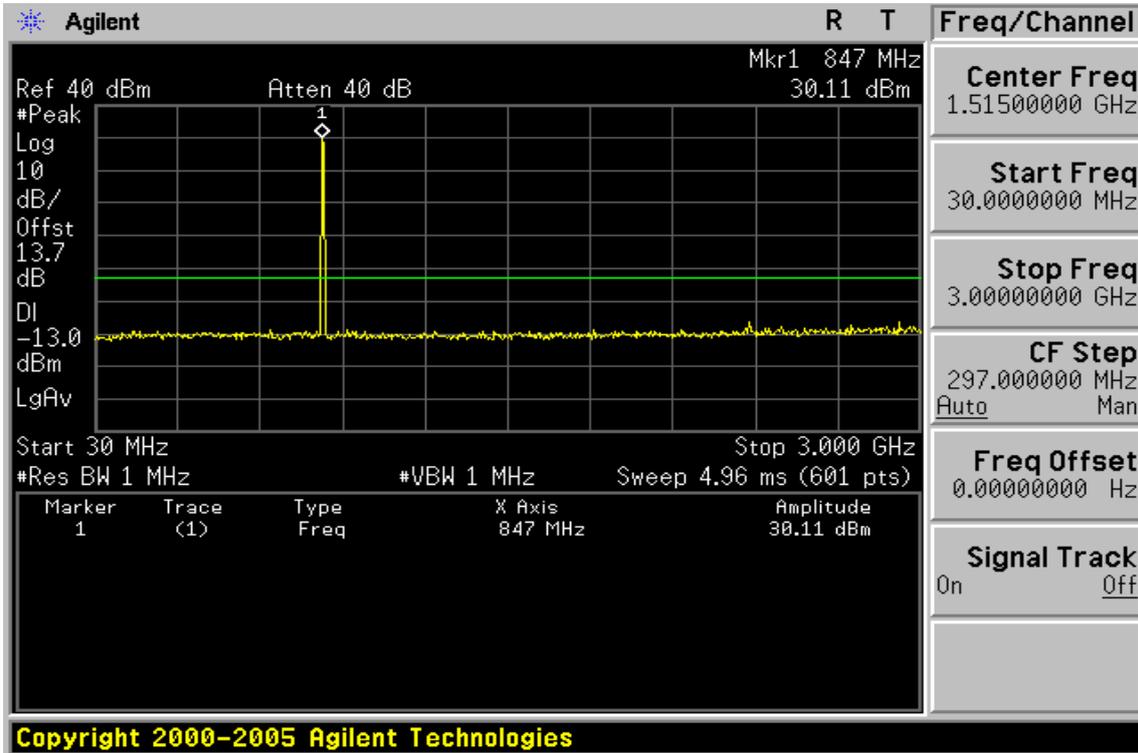


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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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Out of Band emission at antenna terminals – GSM 850

Fundamental Frequency :824.2 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
7417.80	H	---	-13.00	---
8028.00	S	-25.75	-13.00	12.75
8242.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7492.00	S	-25.26	-13.00	12.26
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
6932.00	S	-24.91	-13.00	11.91
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest

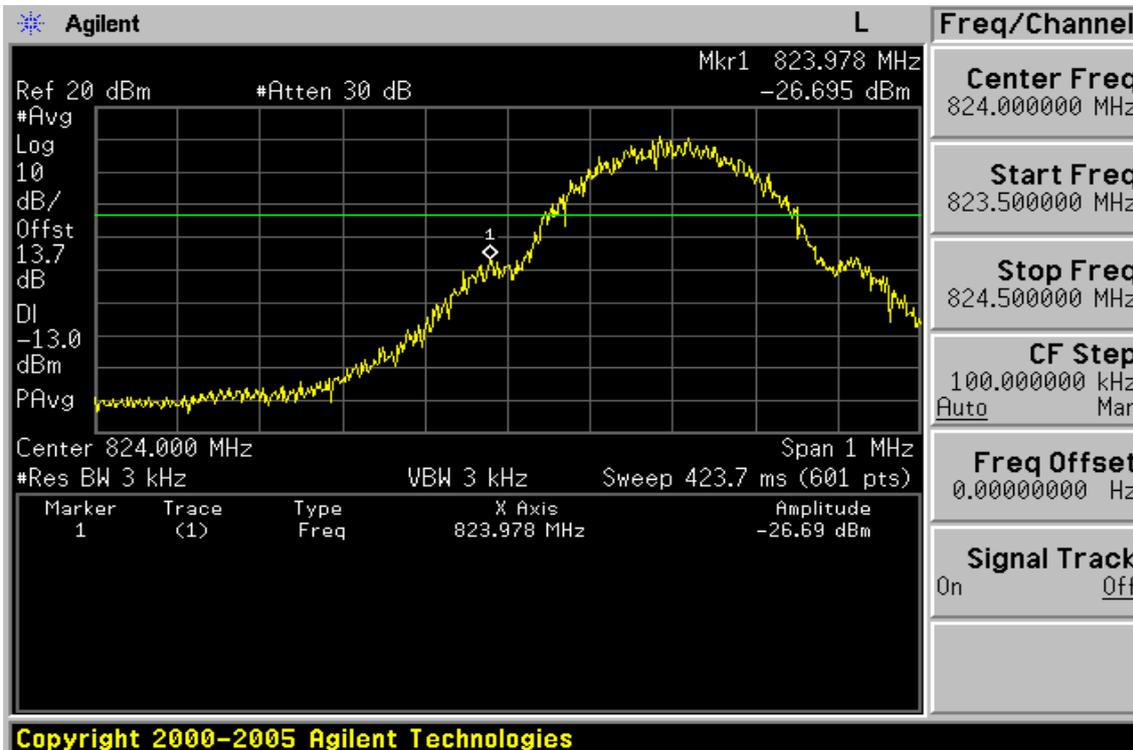
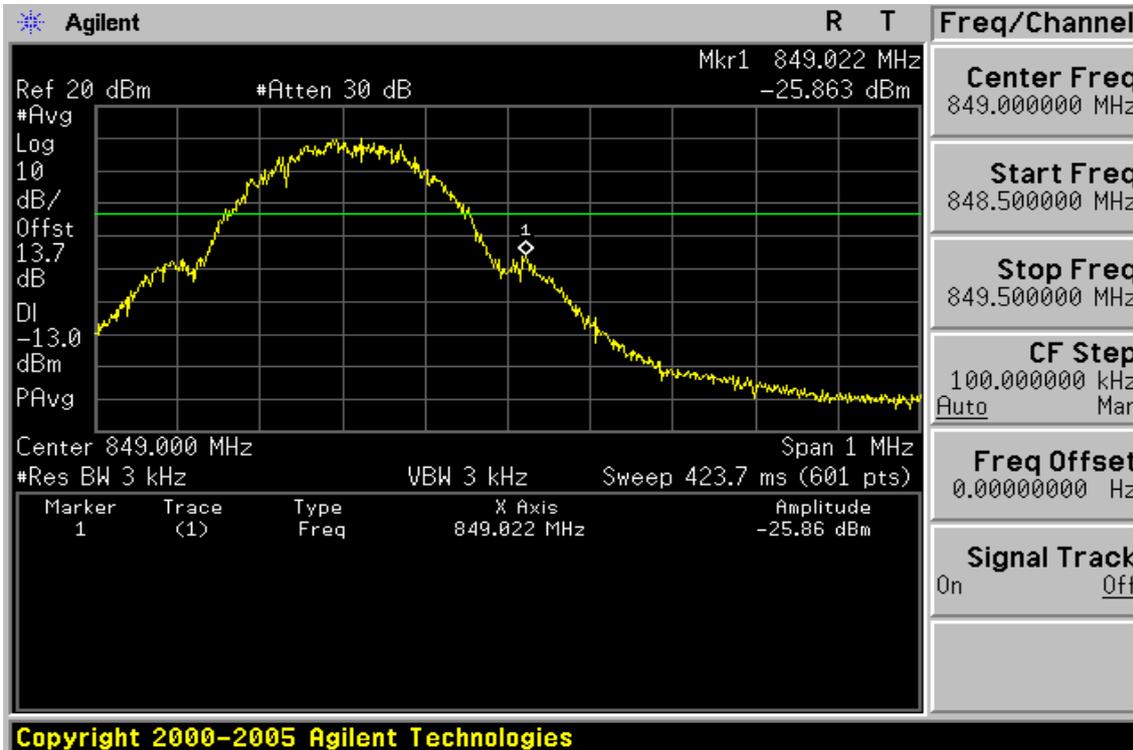


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



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Band edge emission at antenna terminals – GSM 850 Low & High

Test Mode GSM 850 Engineer :Nick

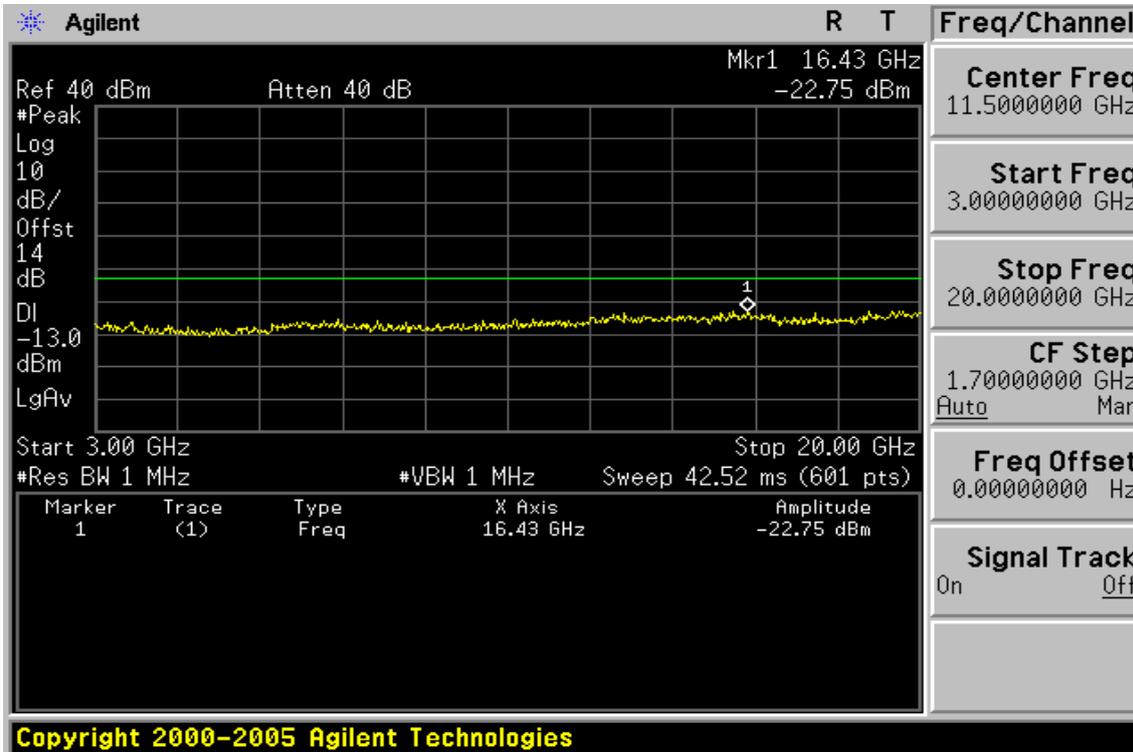
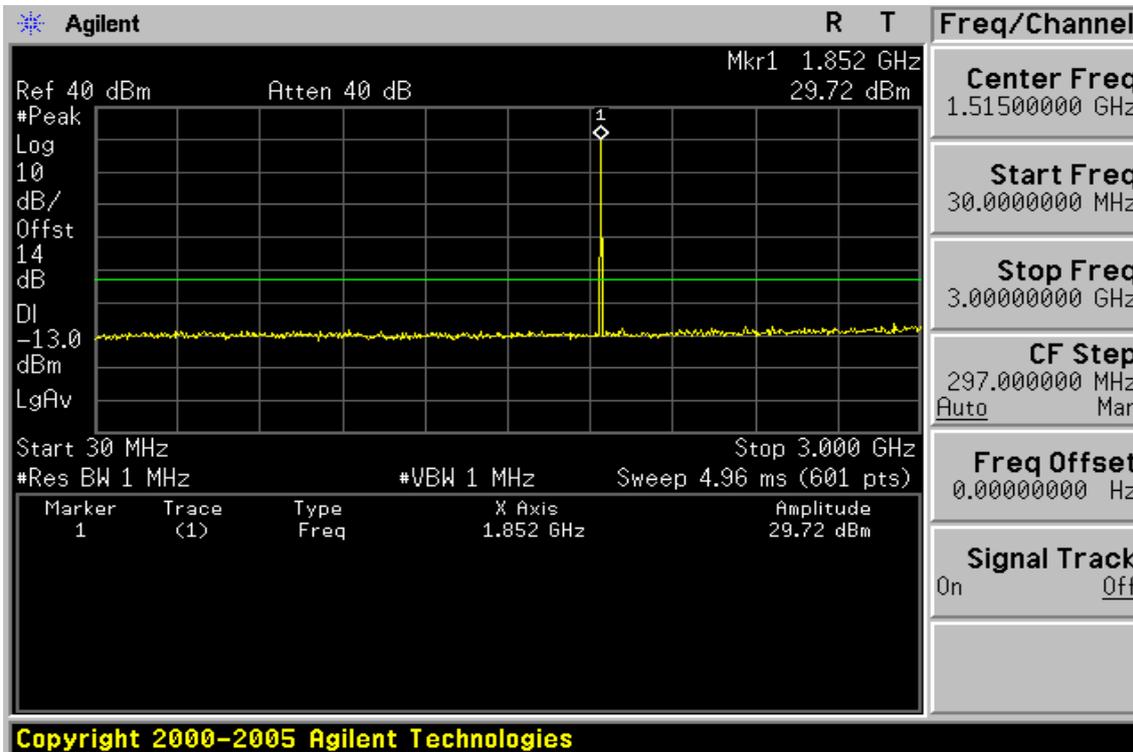
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.978	-26.69	-13.00	13.69
849.022	-25.86	-13.00	12.86

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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest

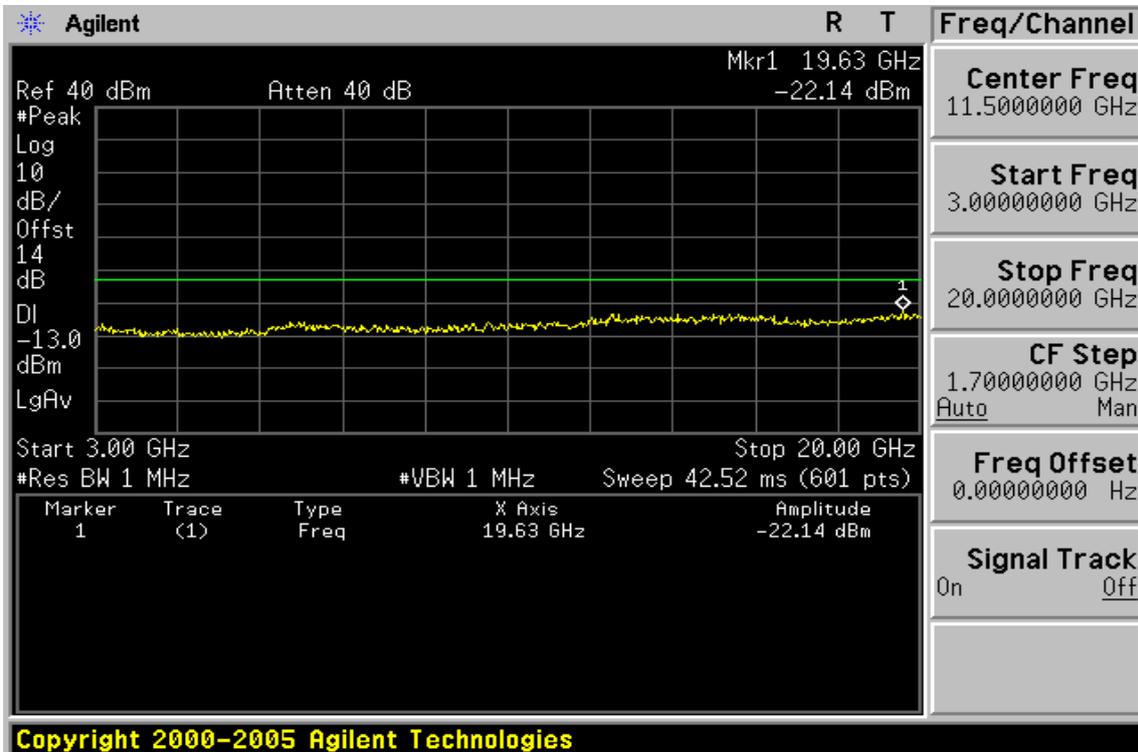
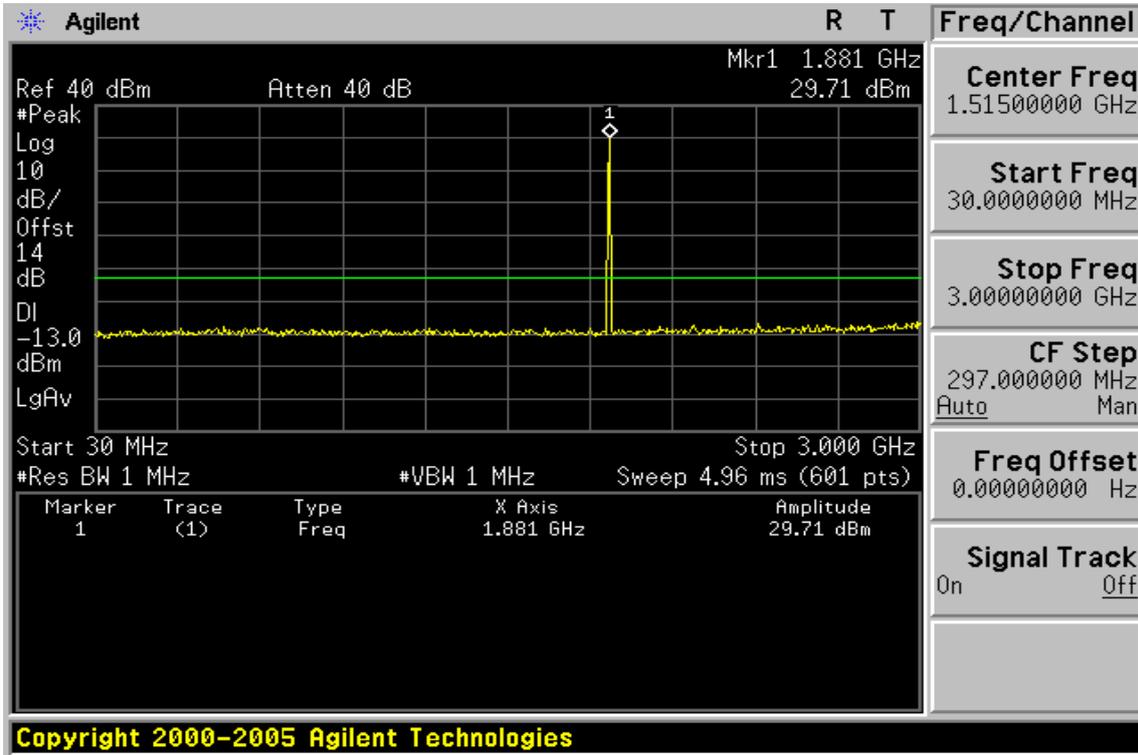


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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid

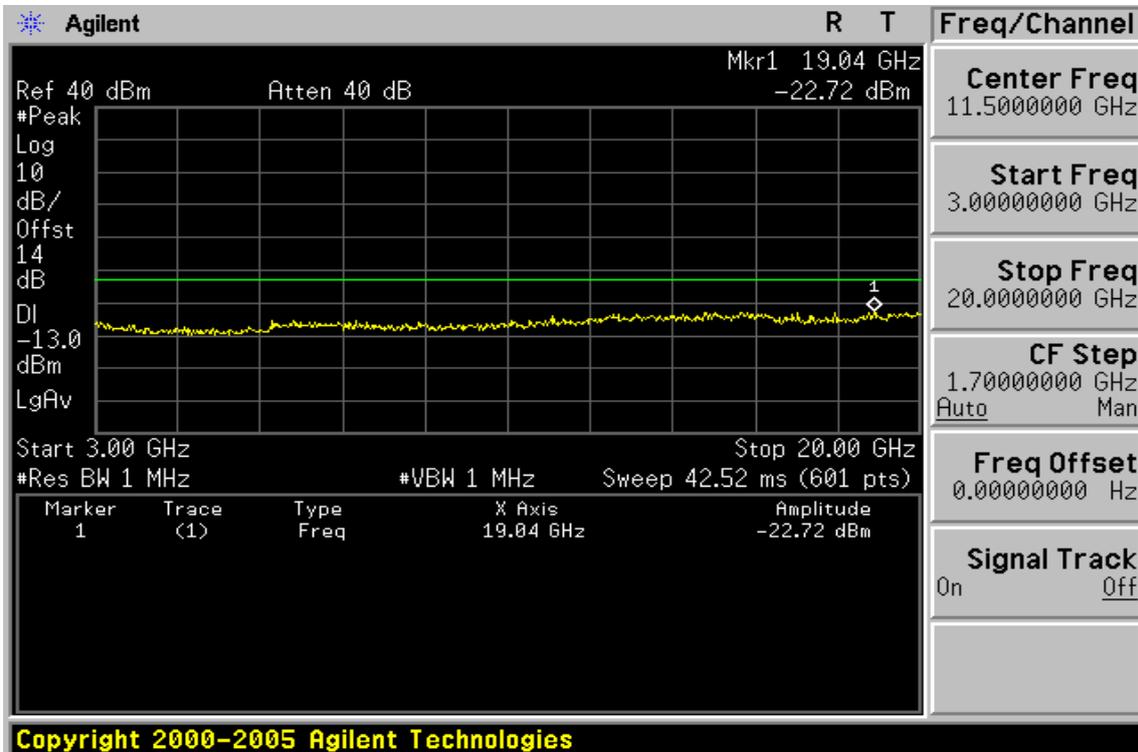
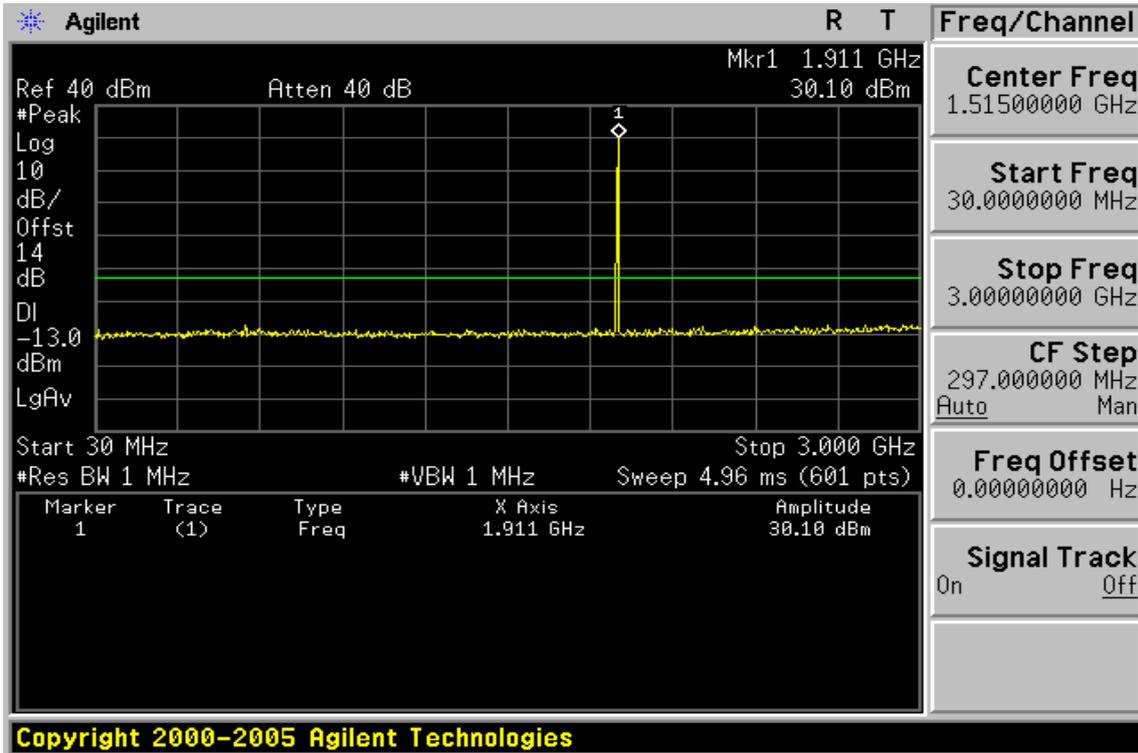


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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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Out of Band emission at antenna terminals – GSM 1900

Fundamental Frequency :1850.2 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
14801.60	H	---	-13.00	---
16430.00	S	-22.75	-13.00	9.75
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19630.00	S	-22.14	-13.00	9.14

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19040.00	S	-22.72	-13.00	9.72
19098.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-9: Band edge emission at antenna terminals – GSM 1900 Channel Lowest

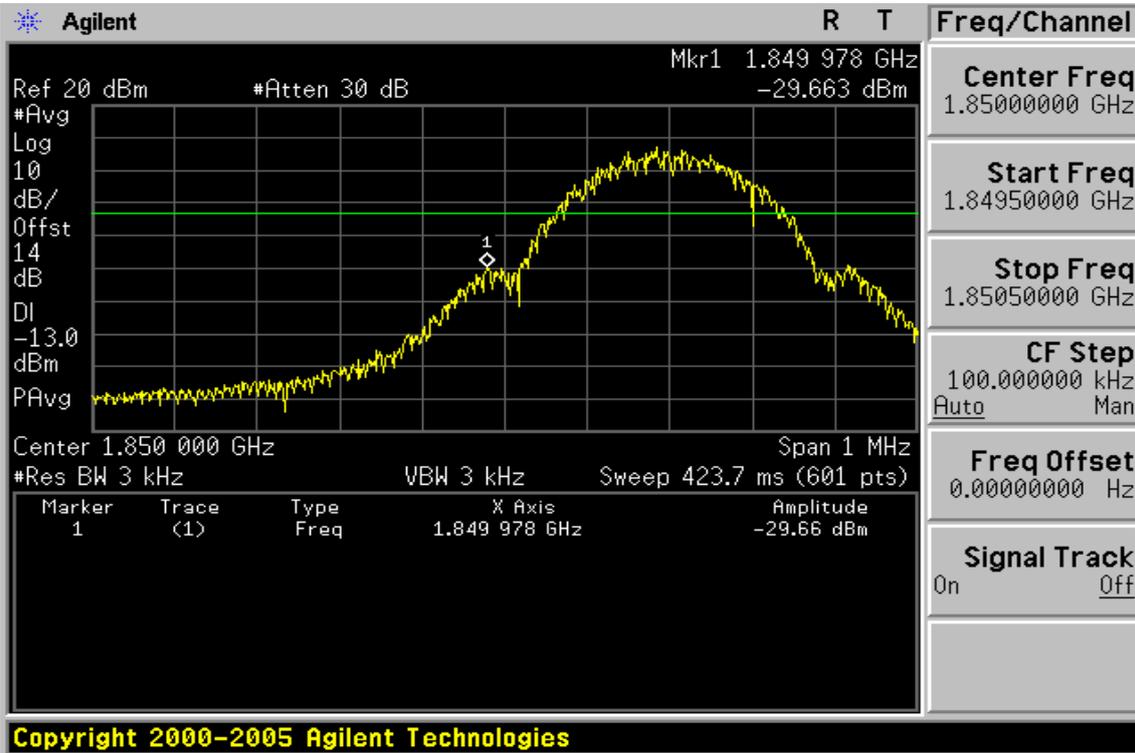
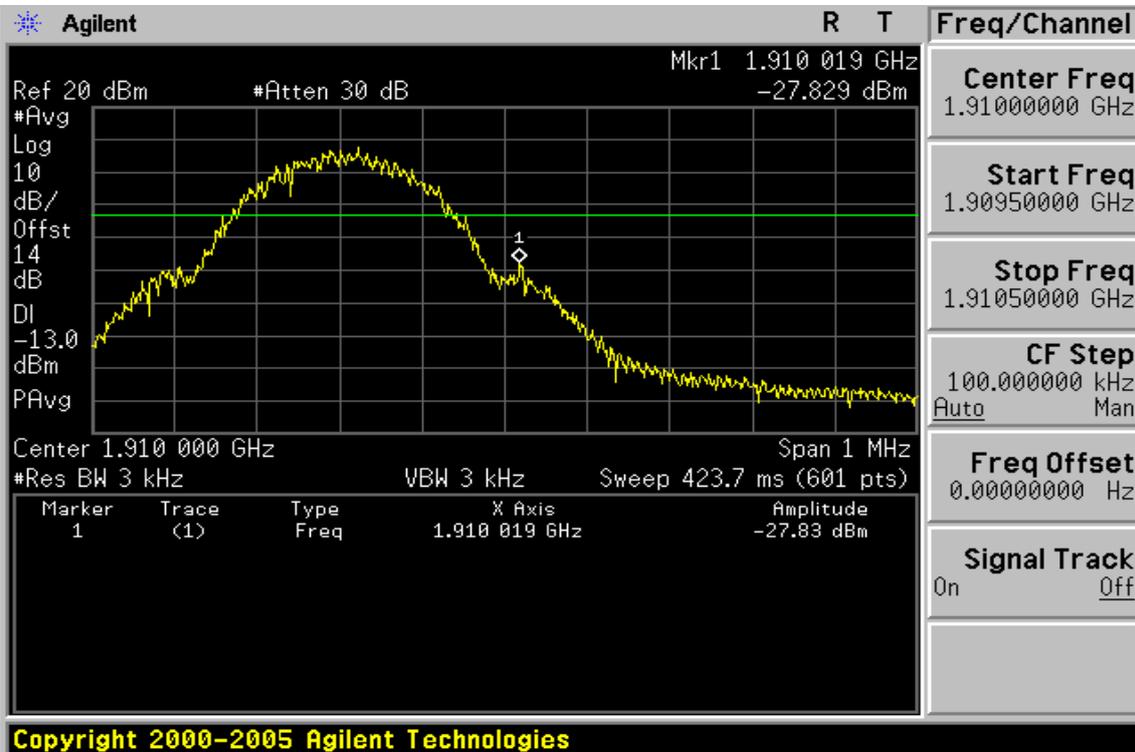


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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Band edge emission at antenna terminals – GSM 1900 Low & High

Test Mode GSM 1900 Engineer :Nick

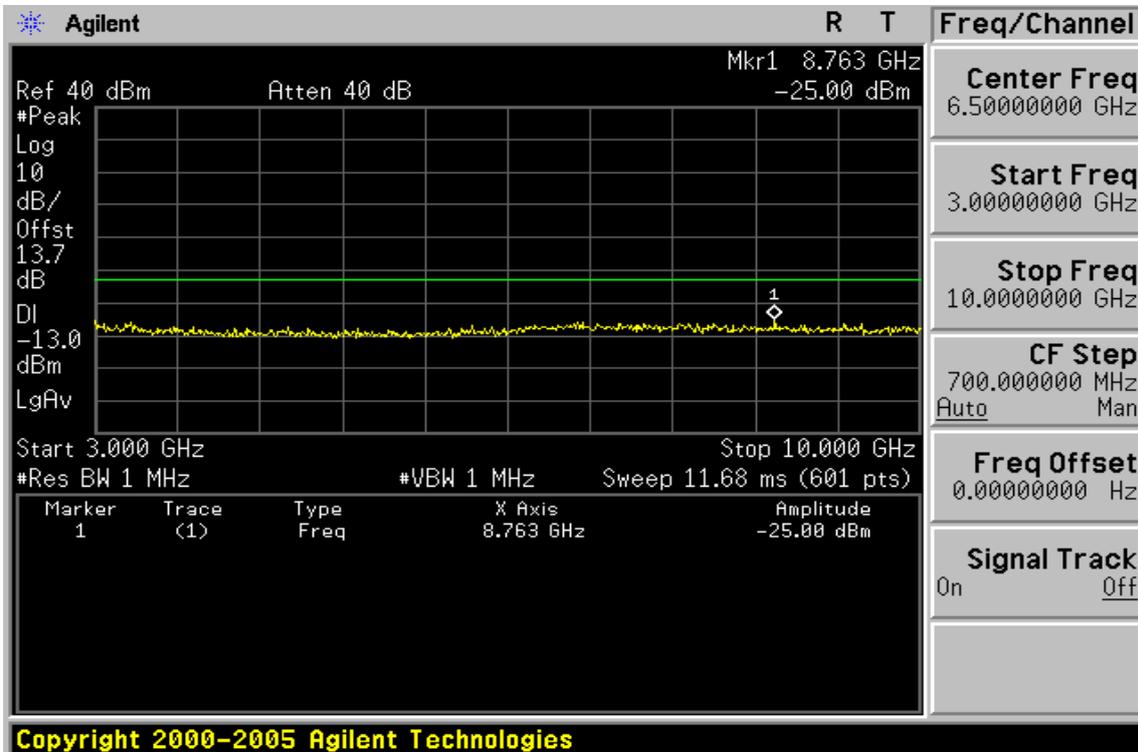
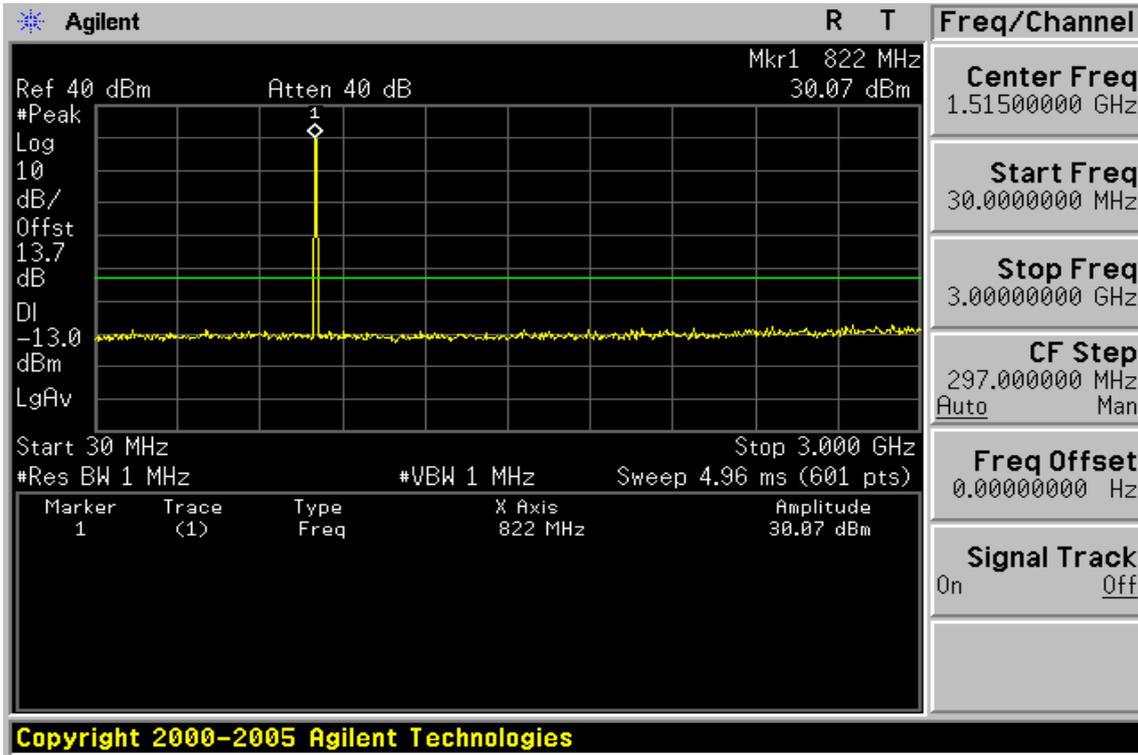
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.978	-29.66	-13.00	16.66
1910.019	-27.83	-13.00	14.83

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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest

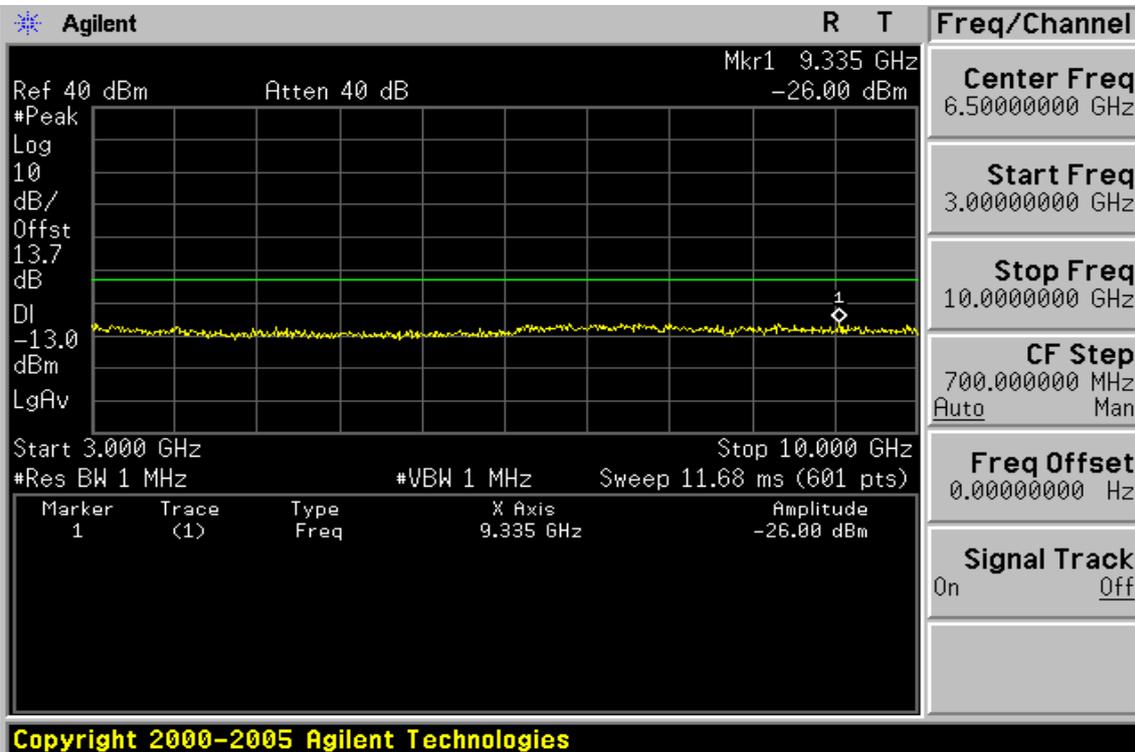
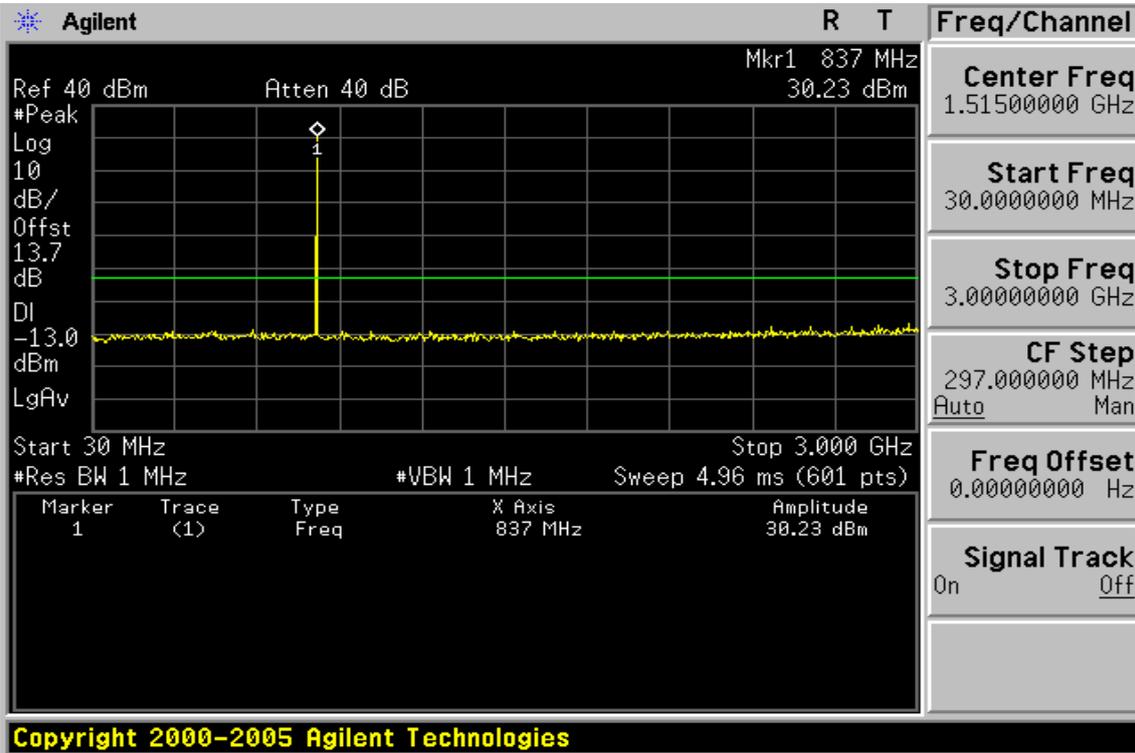


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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid

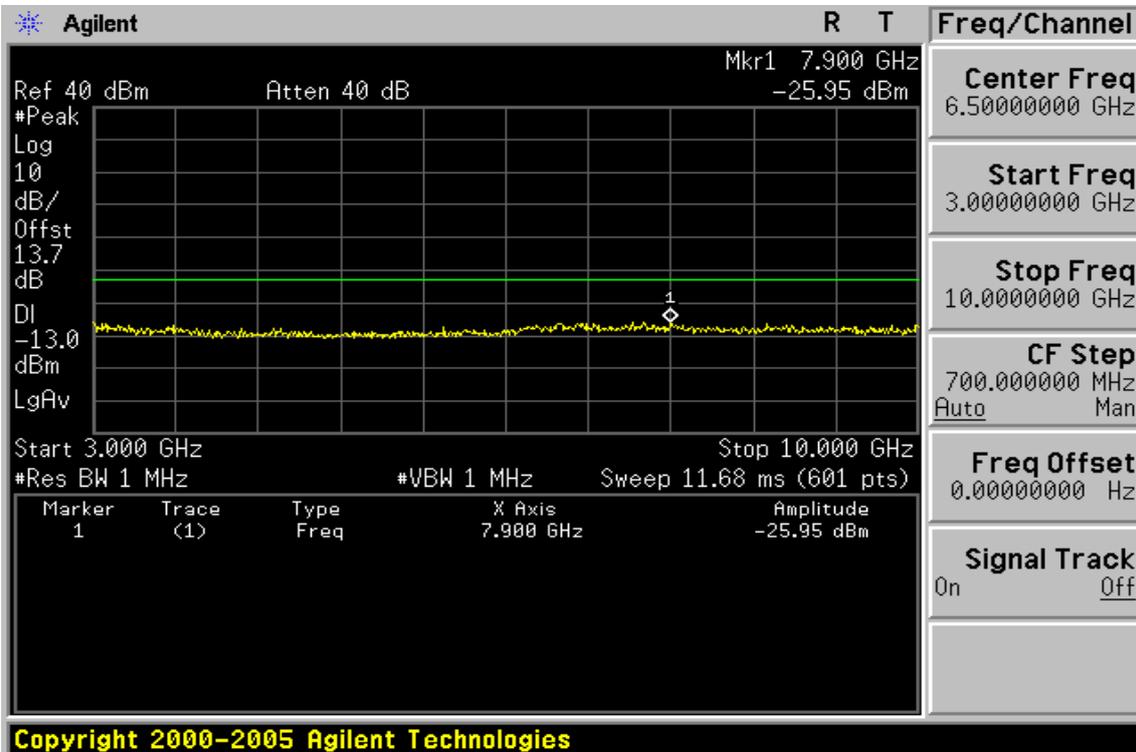
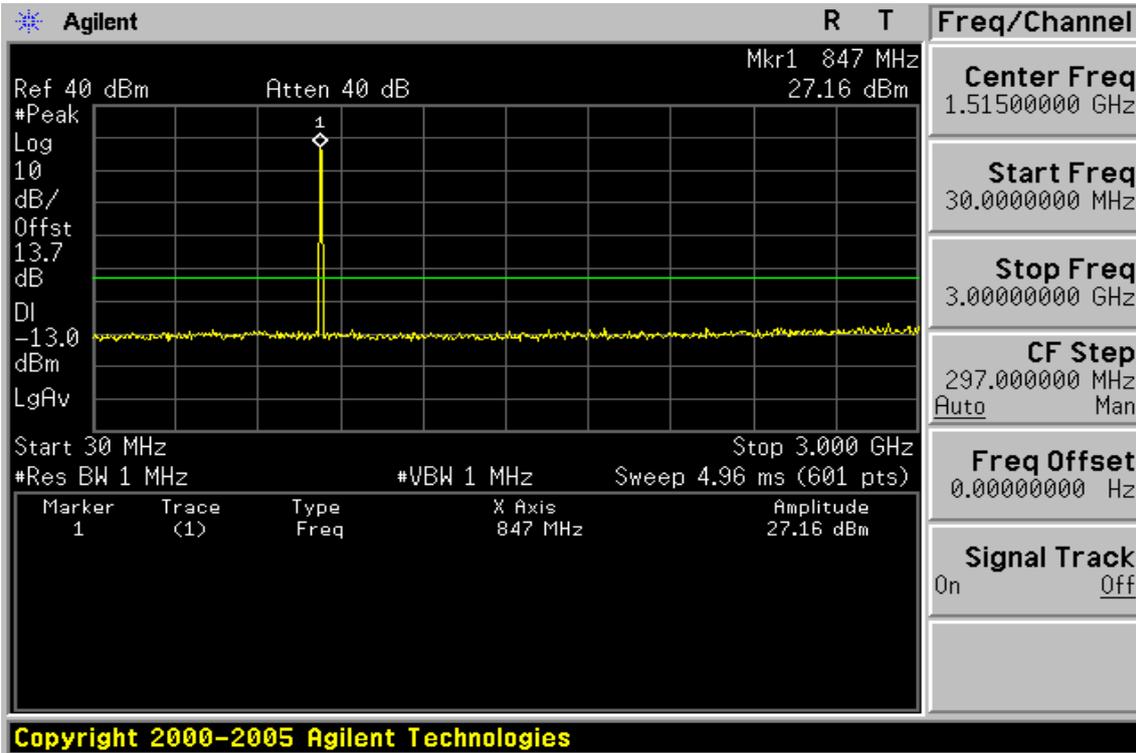


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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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Out of Band emission at antenna terminals – GPRS 850

Fundamental Frequency :824.2 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
7417.80	H	---	-13.00	---
8242.00	H	---	-13.00	---
8763.00	S	-25	-13.00	12.00

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---
9335.00	S	-26	-13.00	13.00

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
7900.00	S	-25.95	-13.00	12.95
8488.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-14: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

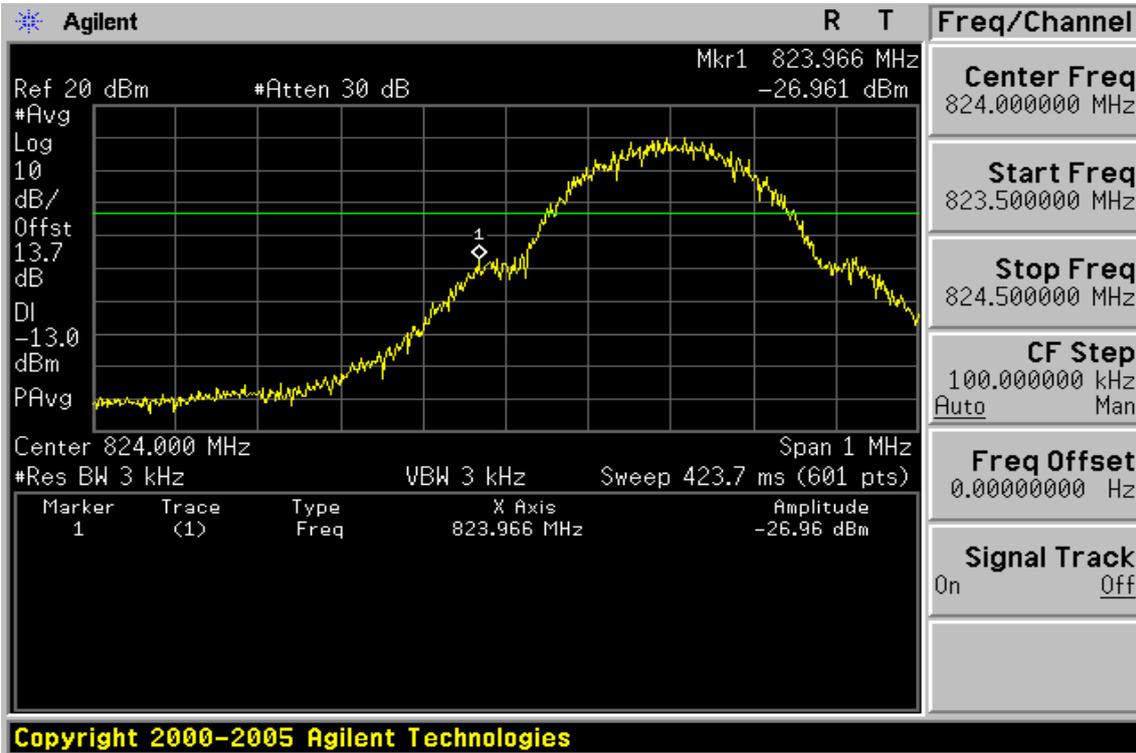
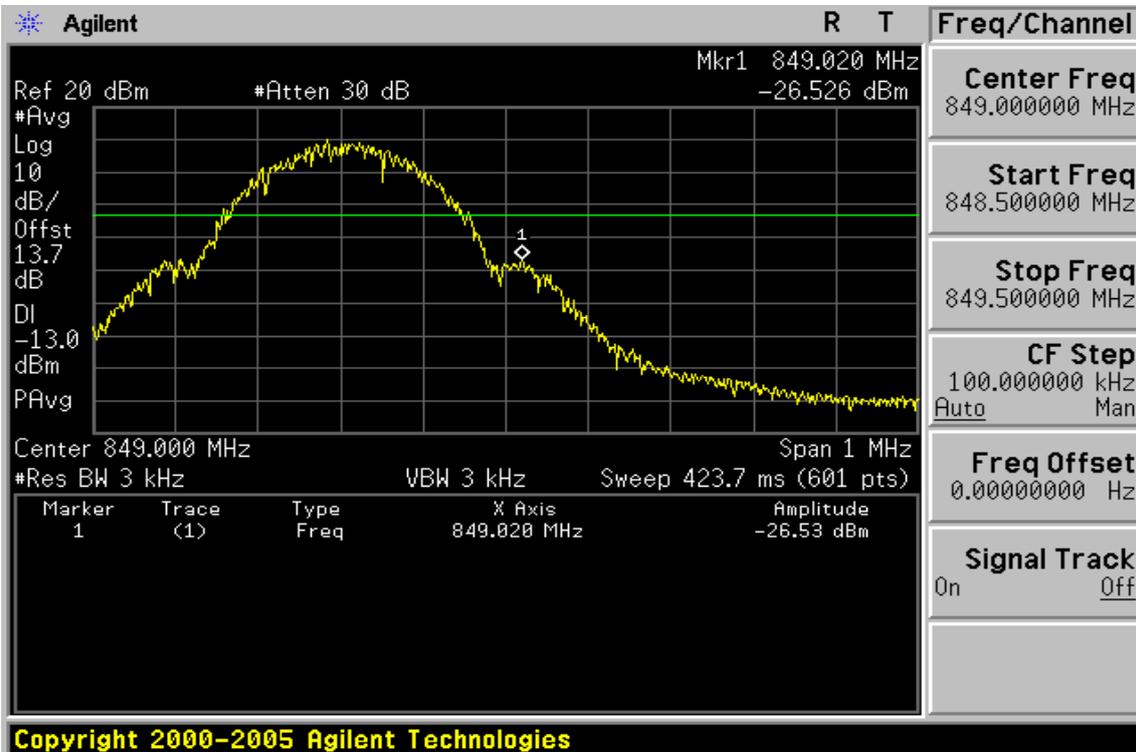


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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Band edge emission at antenna terminals – GPRS 850 Low & High

Test Mode GPRS 850 Engineer :Nick

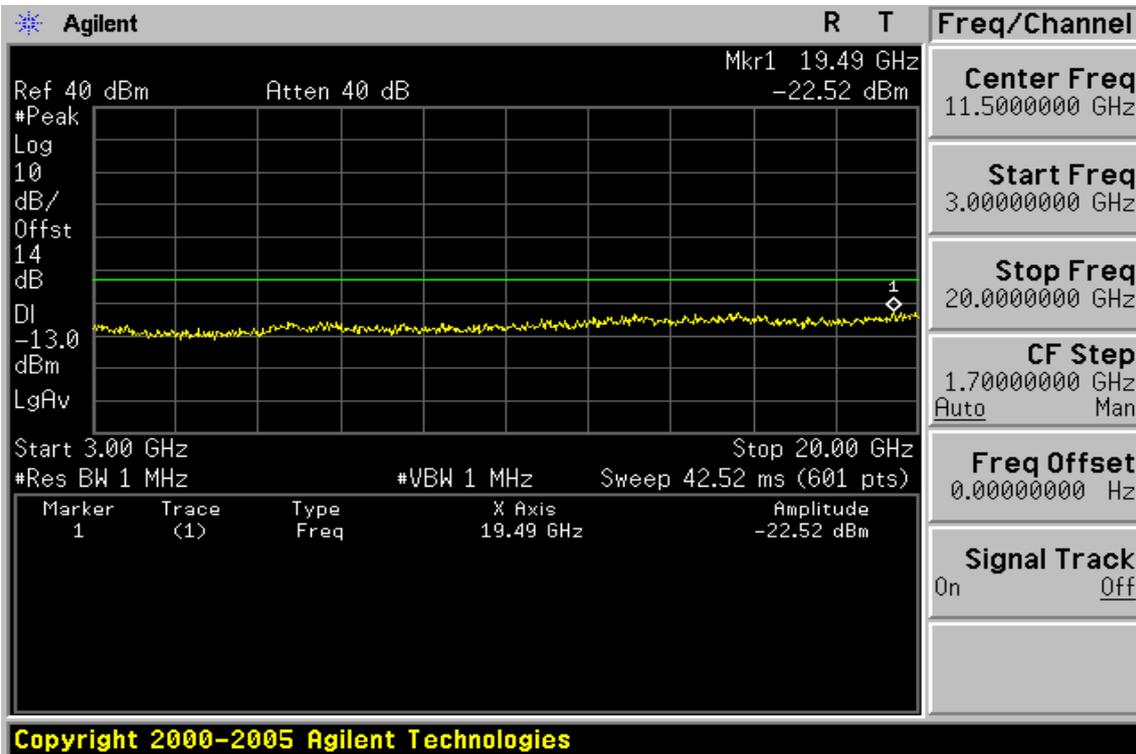
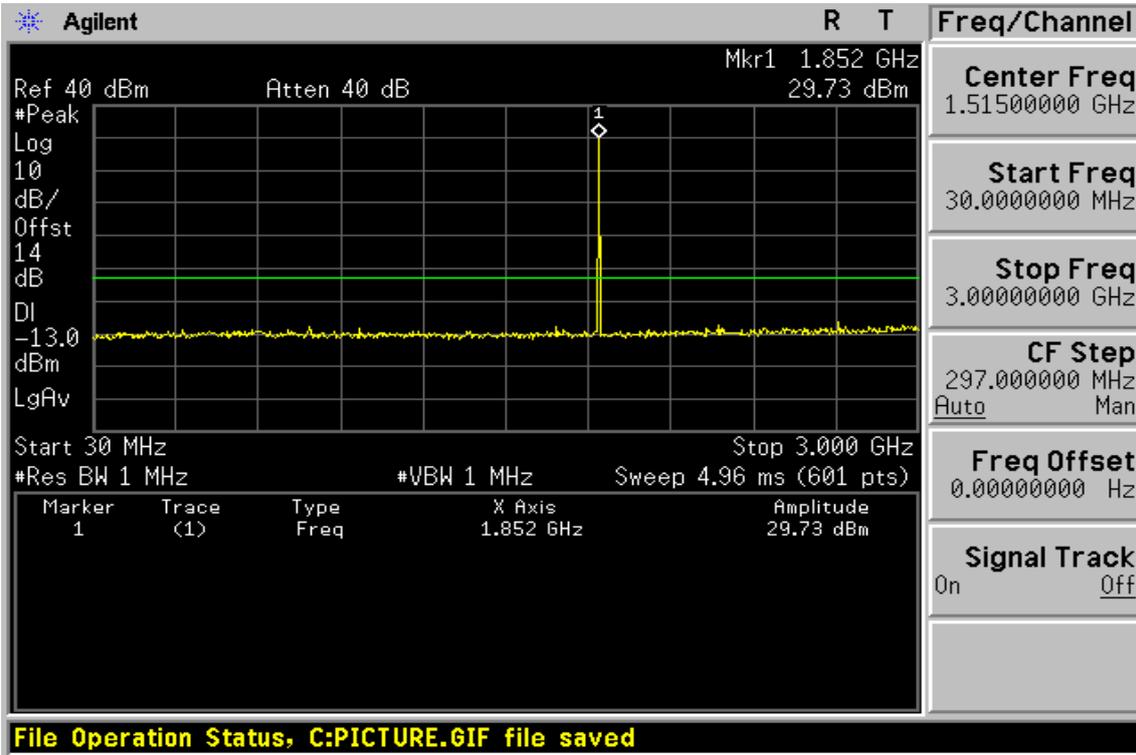
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.966	-26.96	-13.00	13.96
849.020	-26.53	-13.00	13.53

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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest

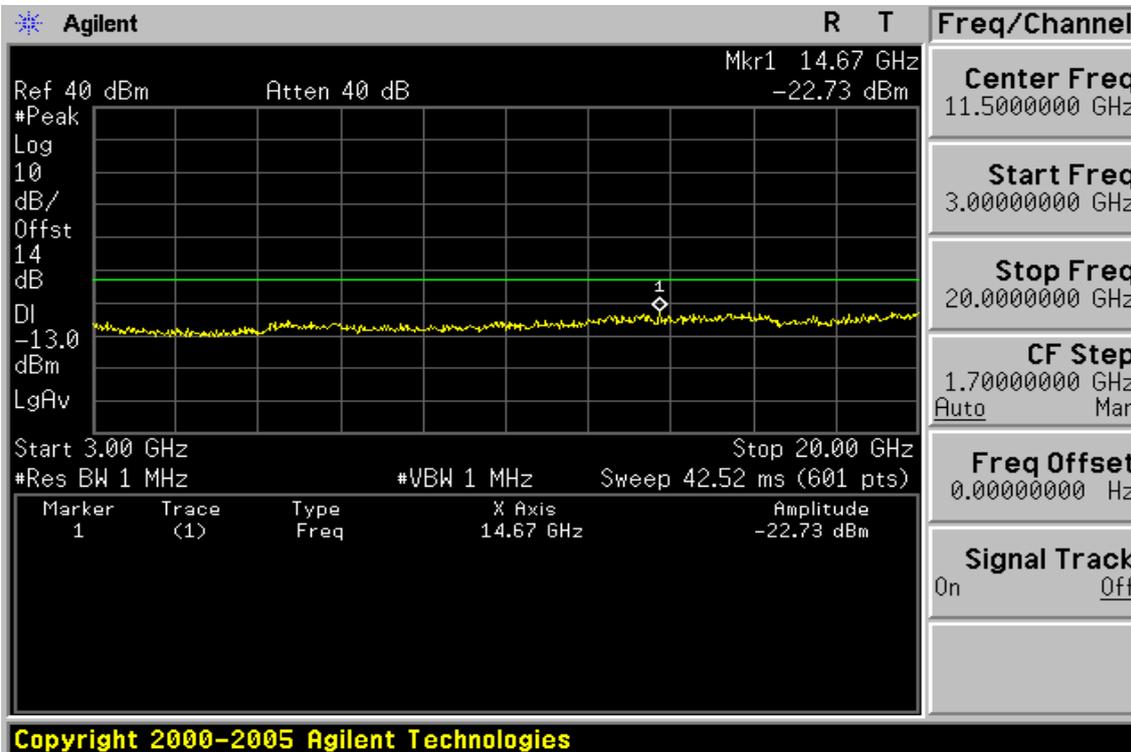
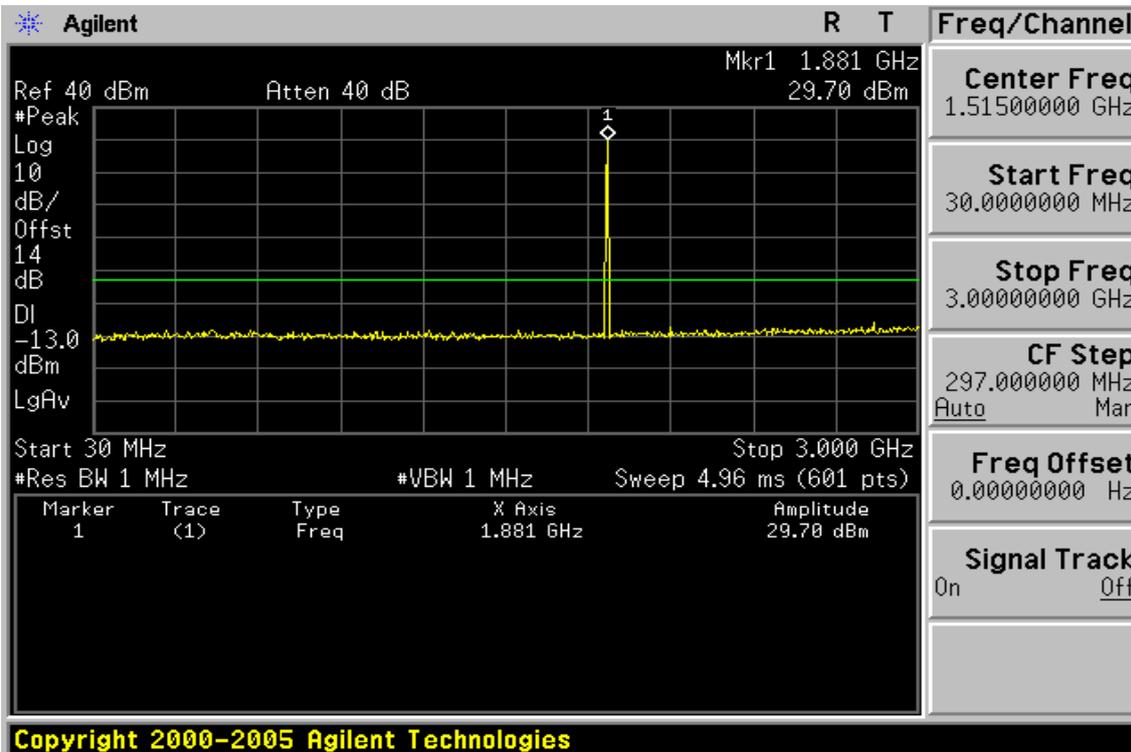


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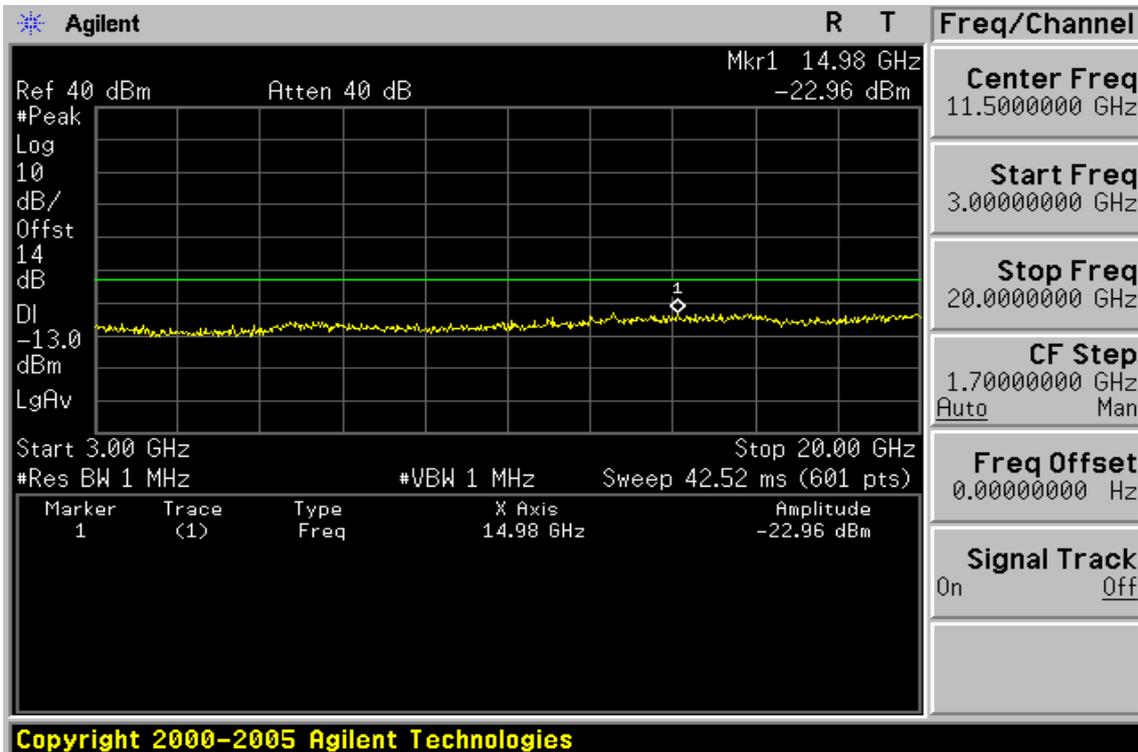
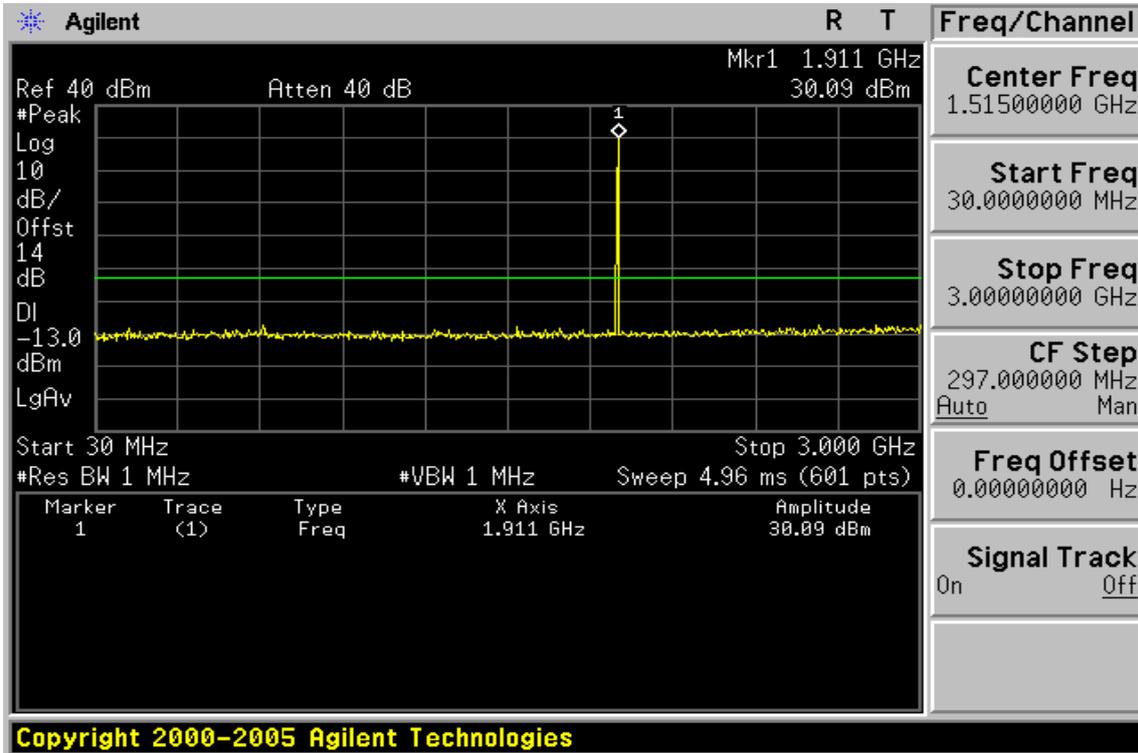
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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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Out of Band emission at antenna terminals – GPRS 1900

Fundamental Frequency :1850.2 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---
19490.00	S	-22.52	-13.00	9.52

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
14670.00	S	-22.73	-13.00	9.73
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
14980.00	S	-22.96	-13.00	9.96
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-19: Band edge emission at antenna terminals – GPRS 1900 Channel Lowest

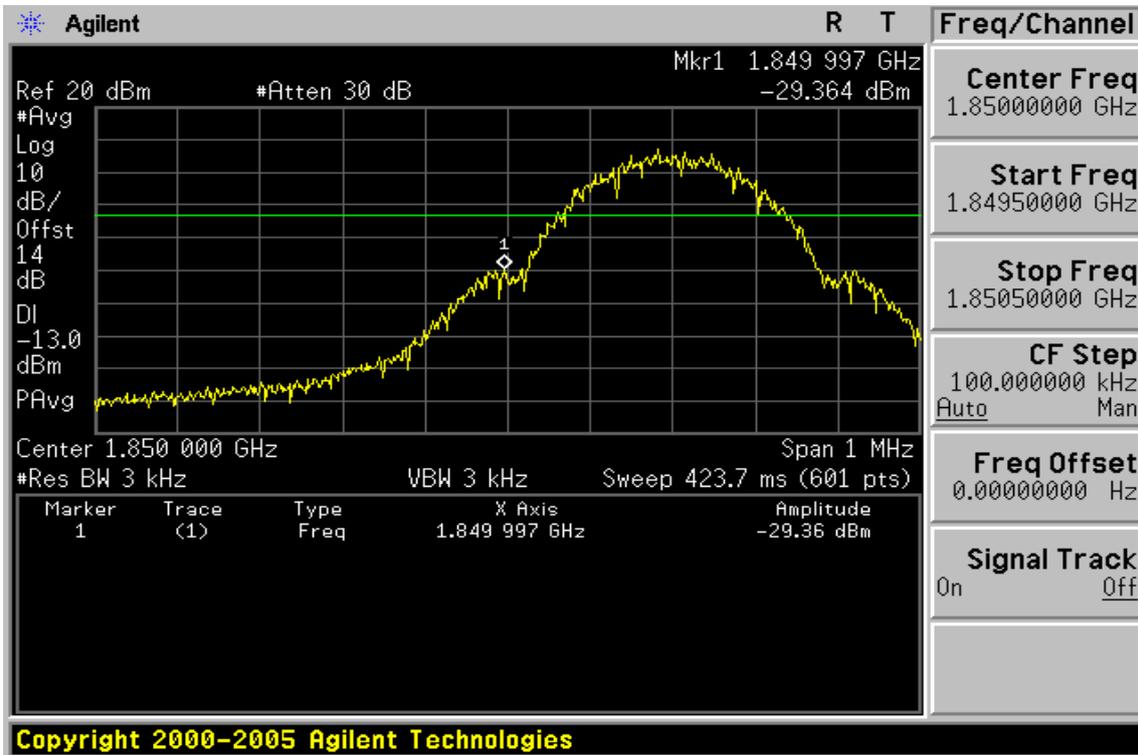
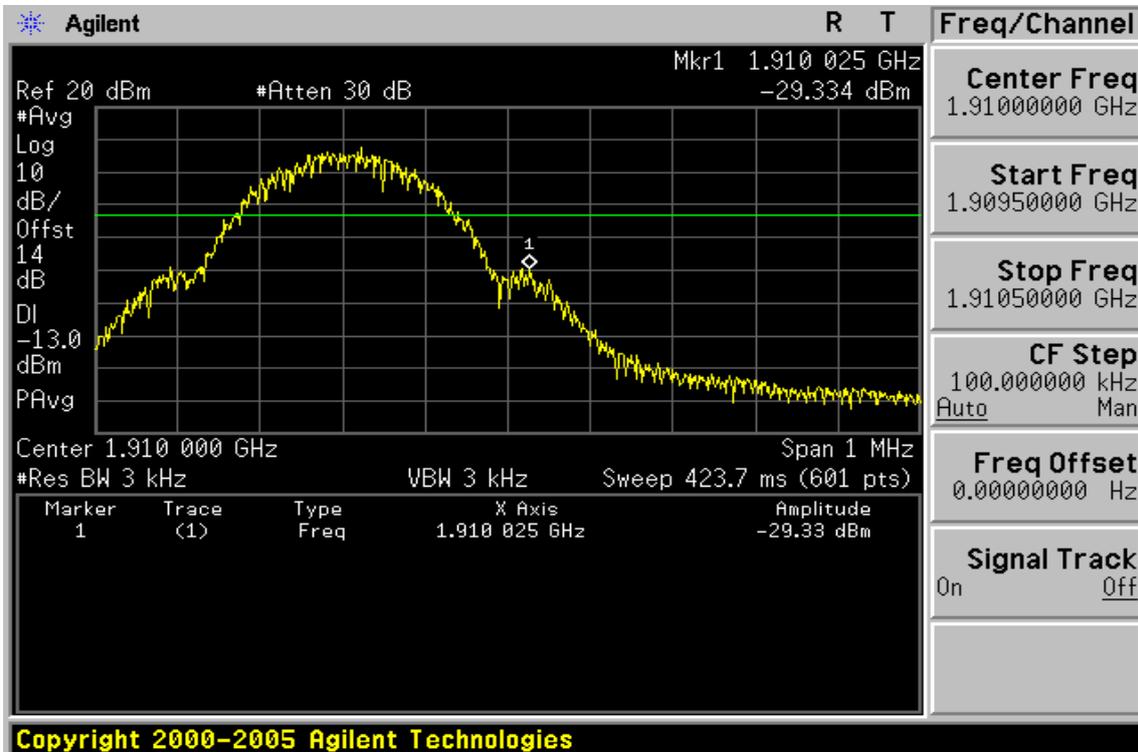


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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Band edge emission at antenna terminals – GPRS 1900 Low & High

Test Mode GPRS 1900 Engineer :Nick

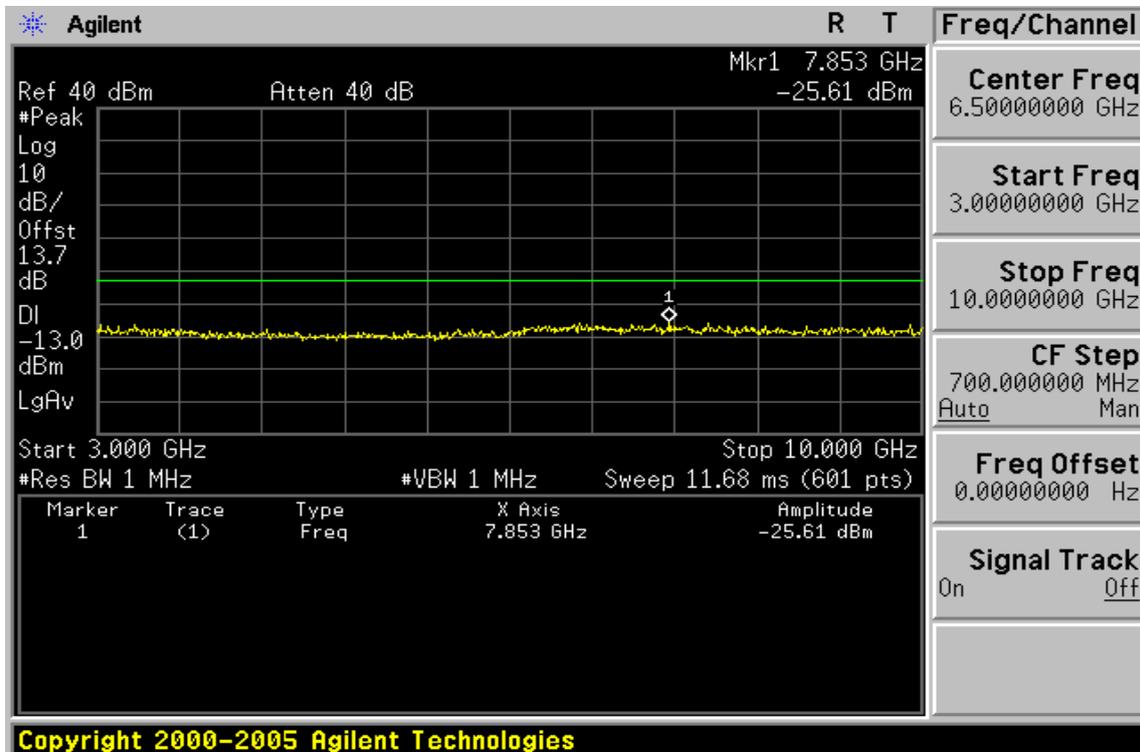
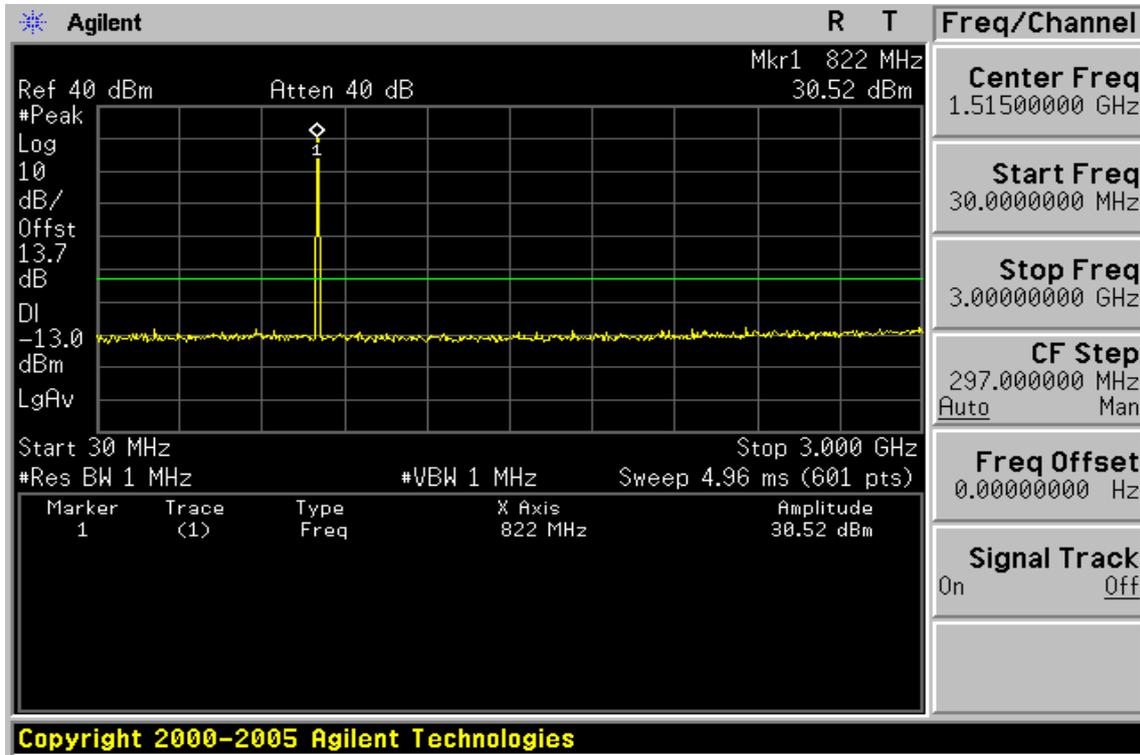
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.997	-29.36	-13.00	16.36
1910.025	-29.33	-13.00	16.33

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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest

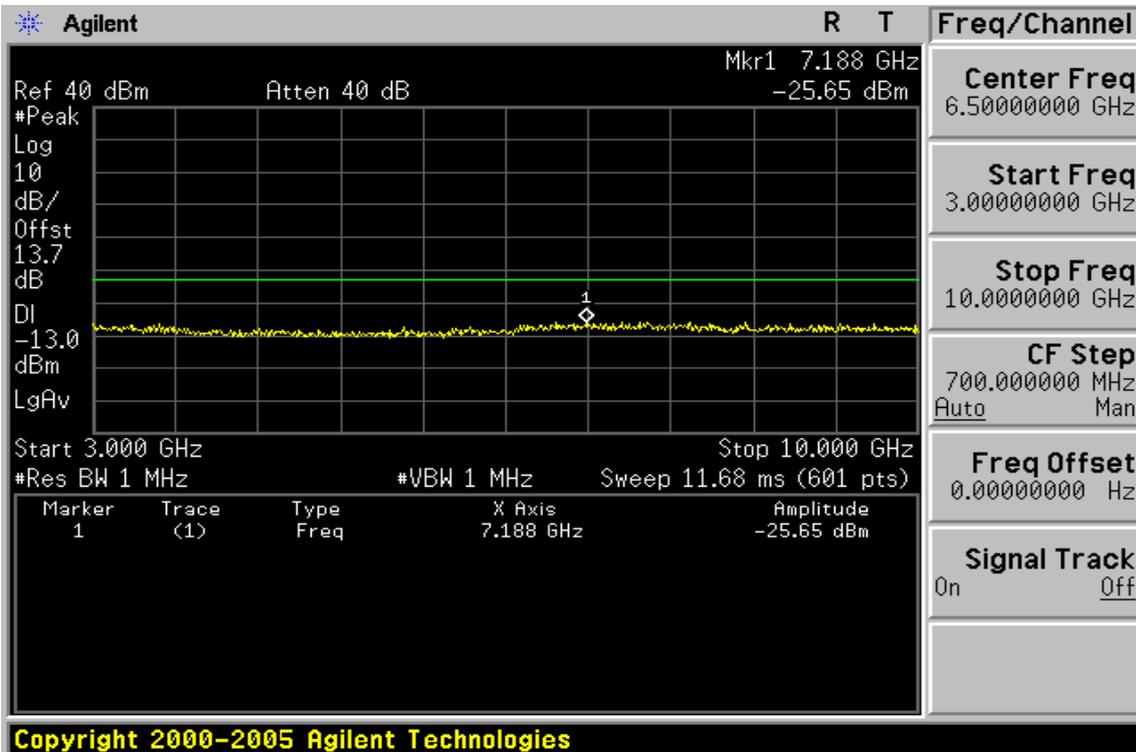
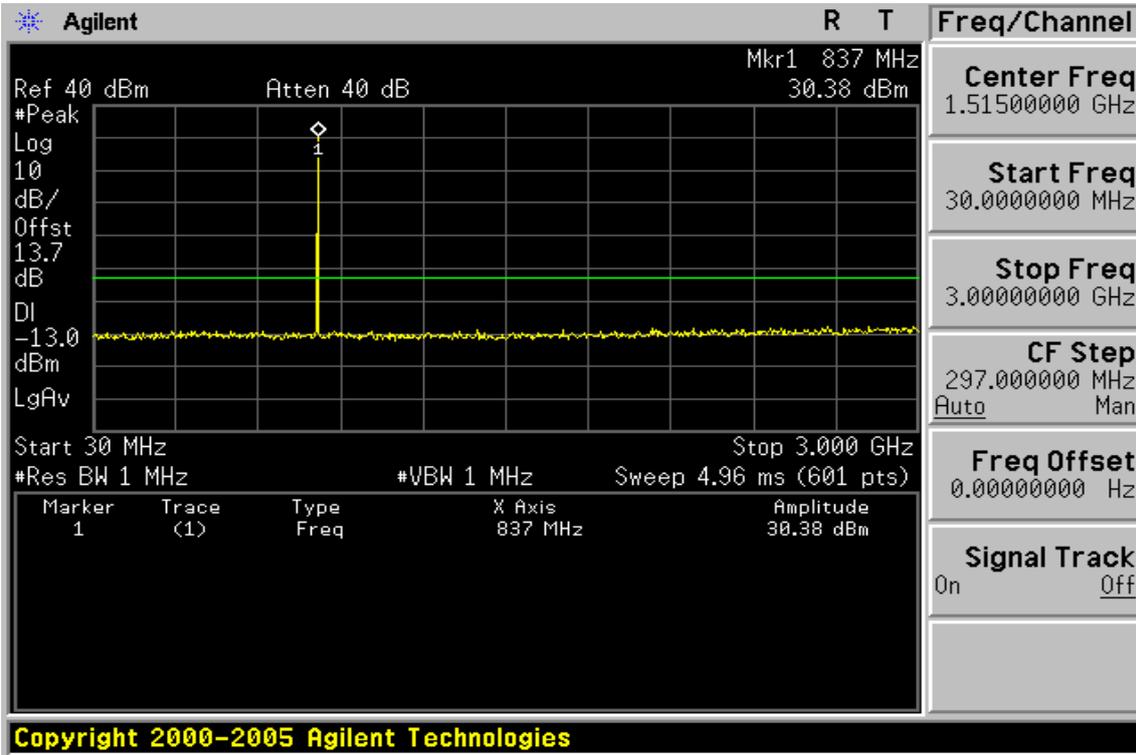


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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid

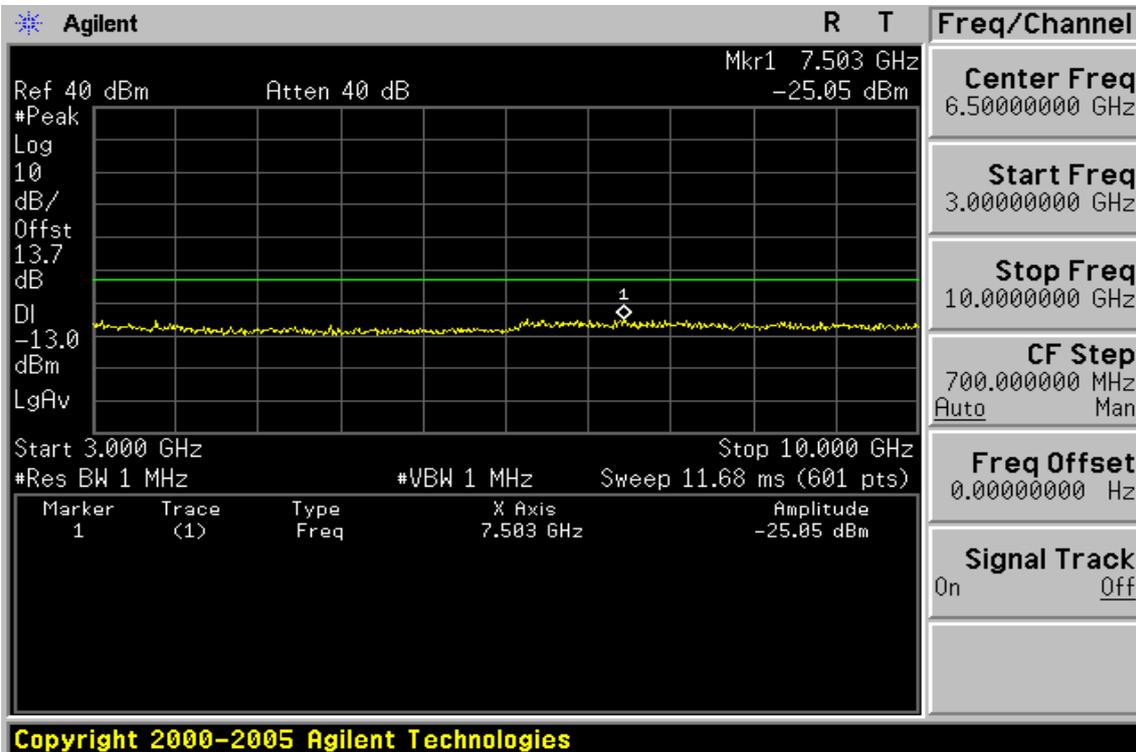
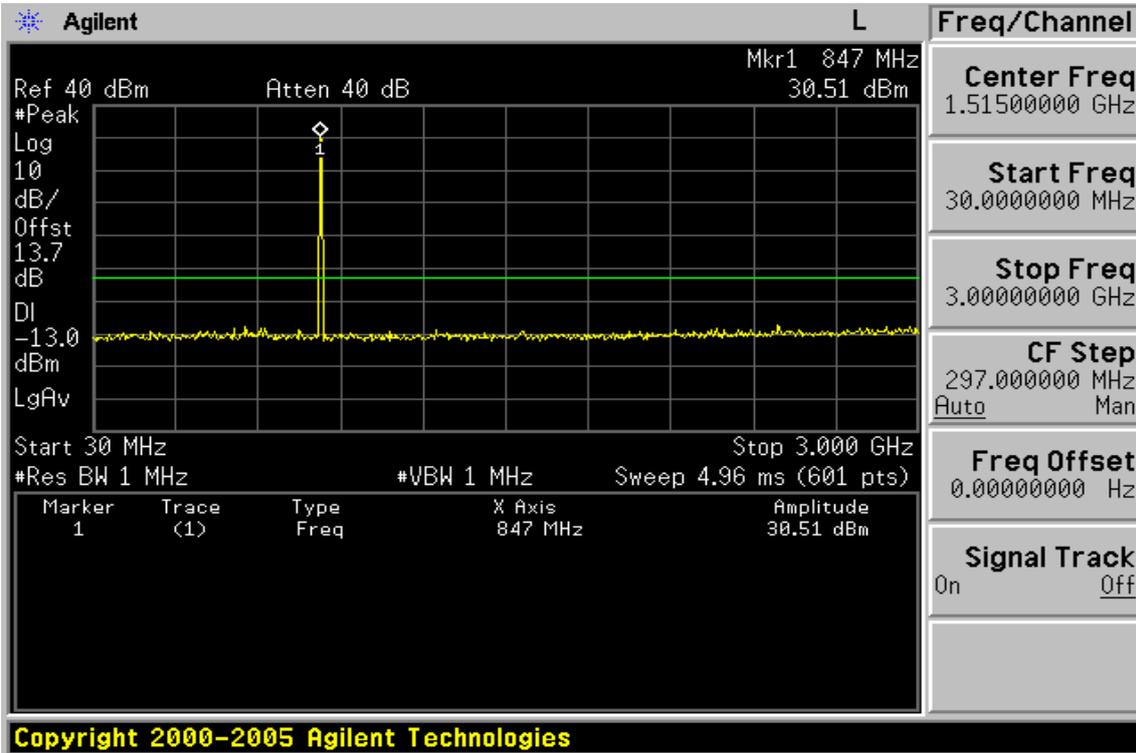


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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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Out of Band emission at antenna terminals – EDGE 850

Fundamental Frequency :824.2 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
7417.80	H	---	-13.00	---
7853.00	S	-25.61	-13.00	12.61
8242.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
6692.80	H	---	-13.00	---
7188.00	S	-25.65	-13.00	12.65
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7503.00	S	-25.05	-13.00	12.05
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

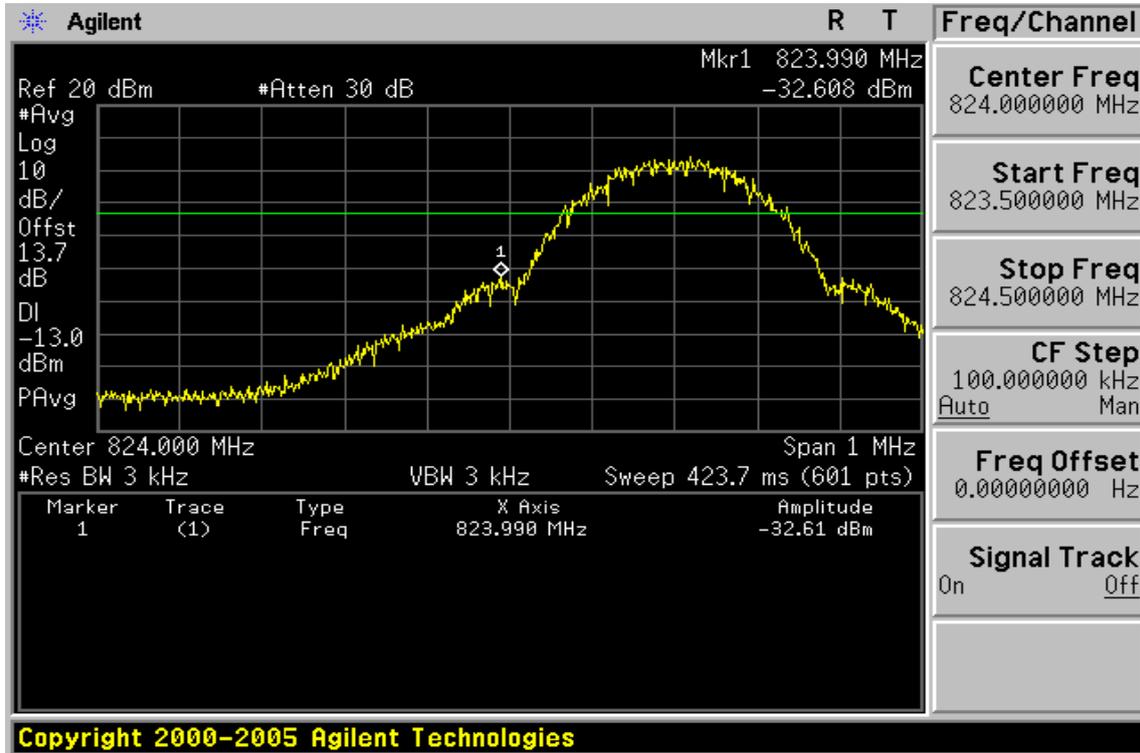


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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Band edge emission at antenna terminals – EDGE 850 Low & High

Test Mode EDGE 850 Engineer :Nick

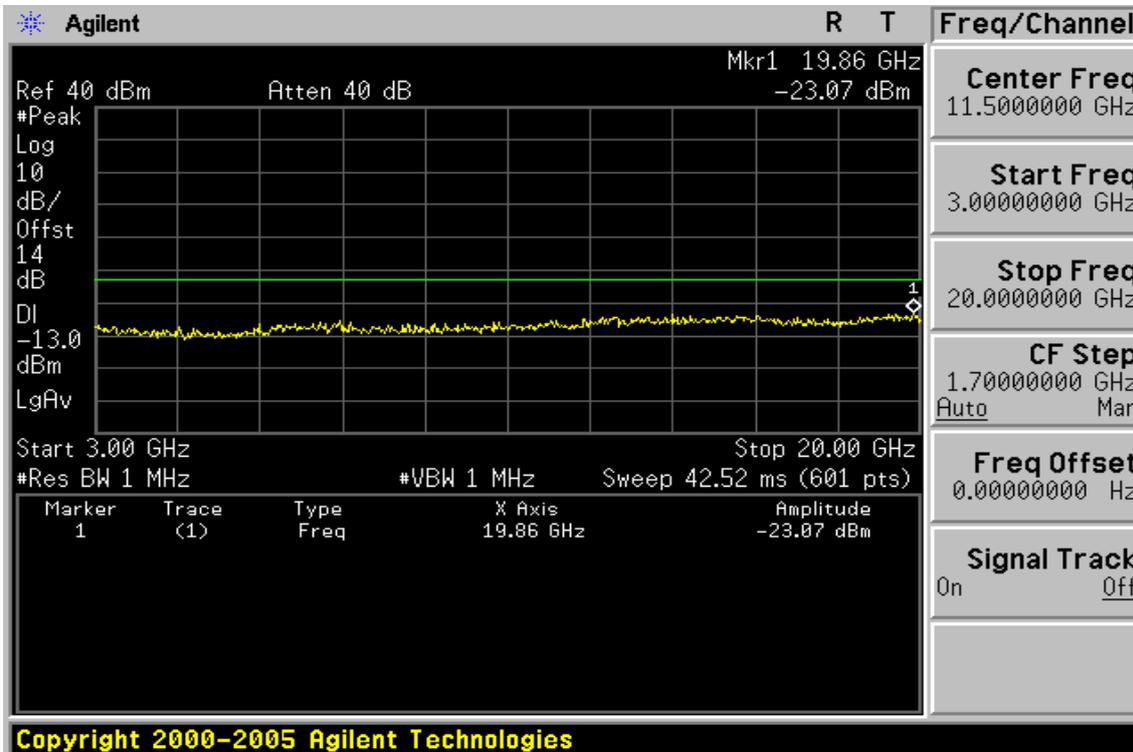
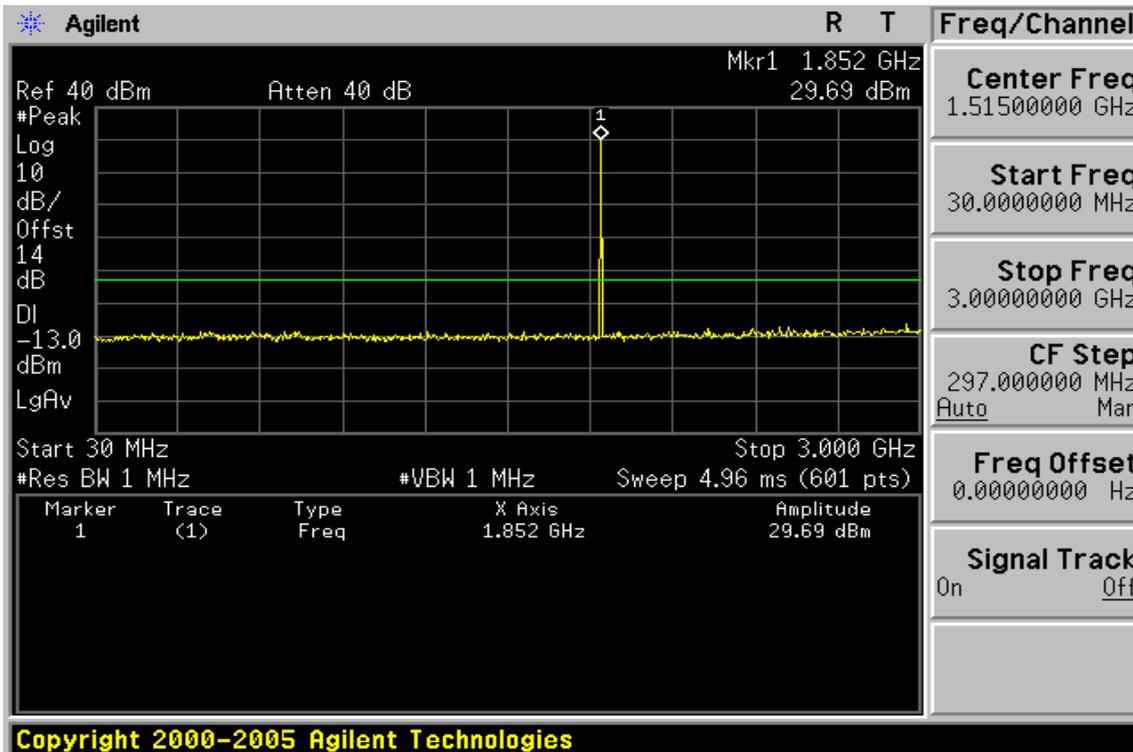
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.990	-32.61	-13.00	19.61
849.003	-34.77	-13.00	21.77

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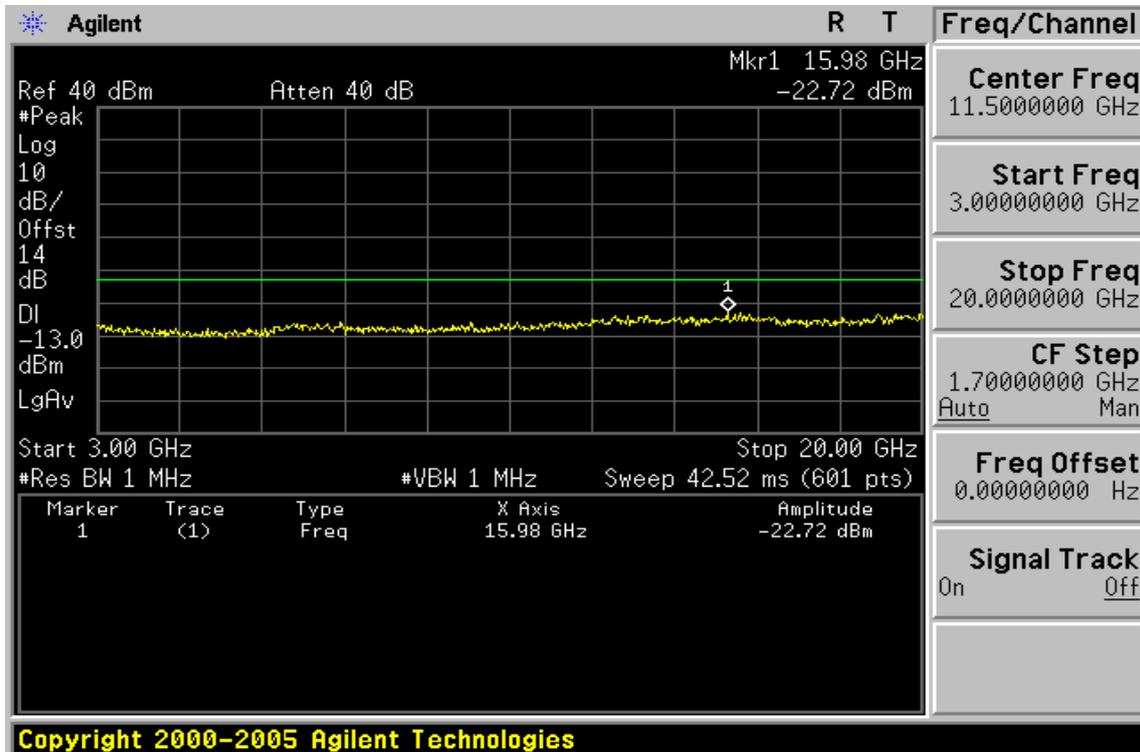
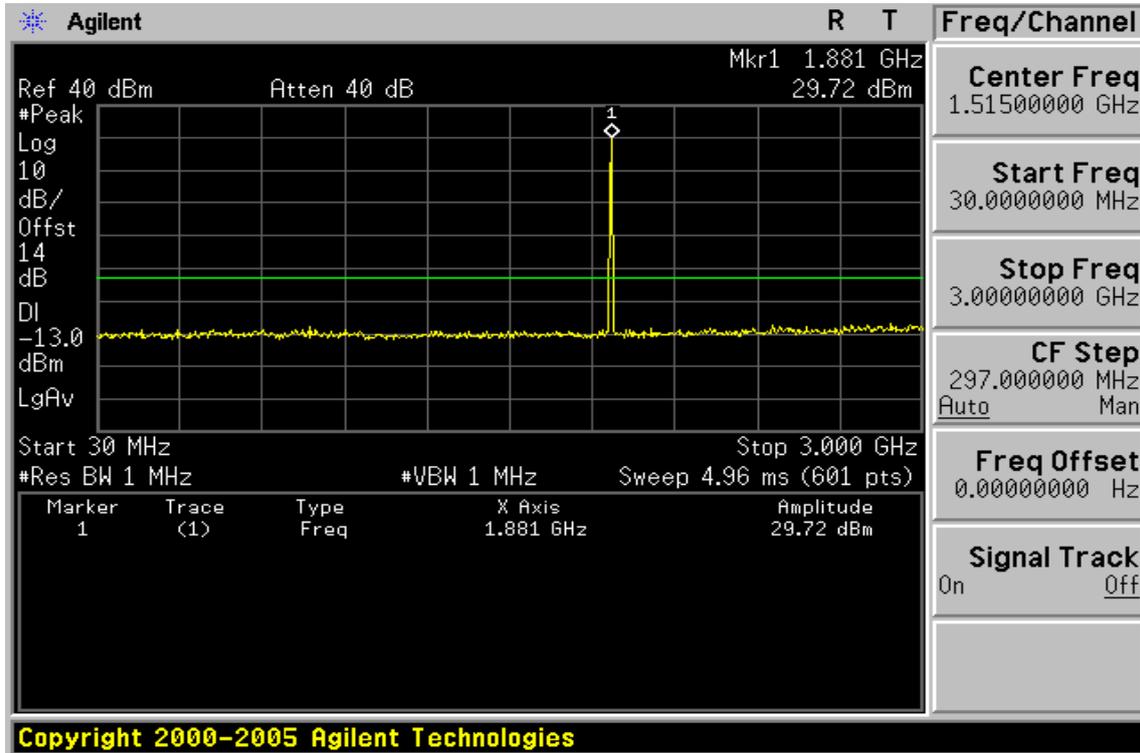
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Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid

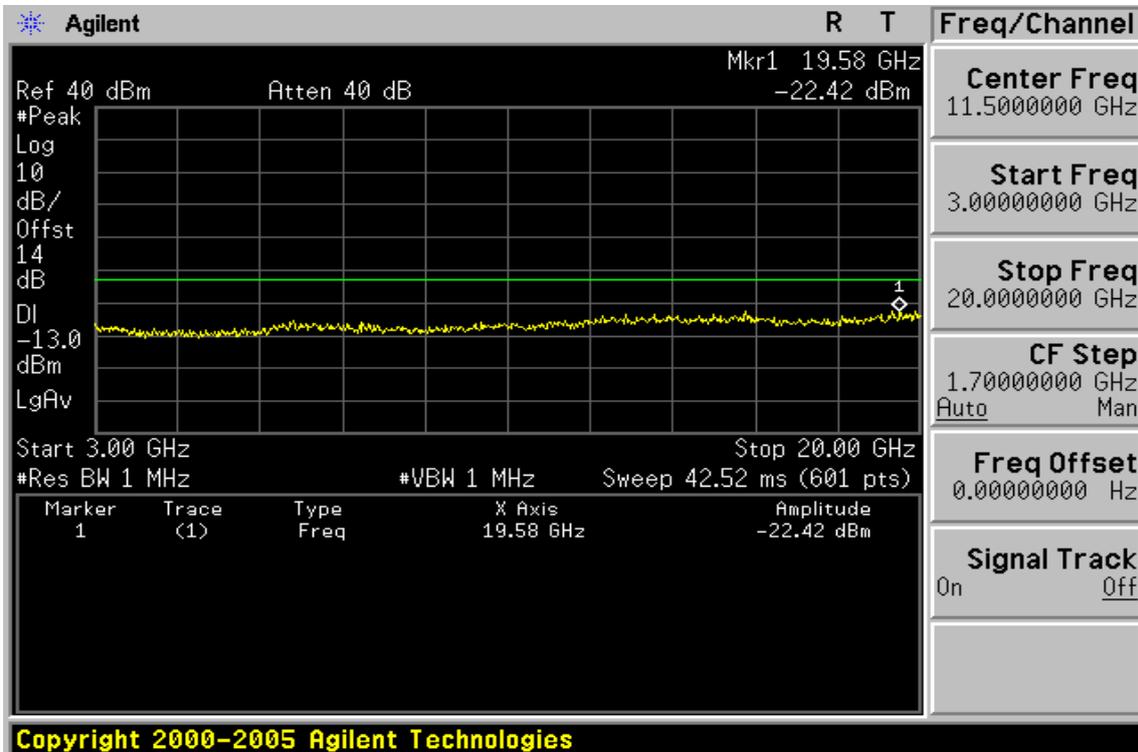
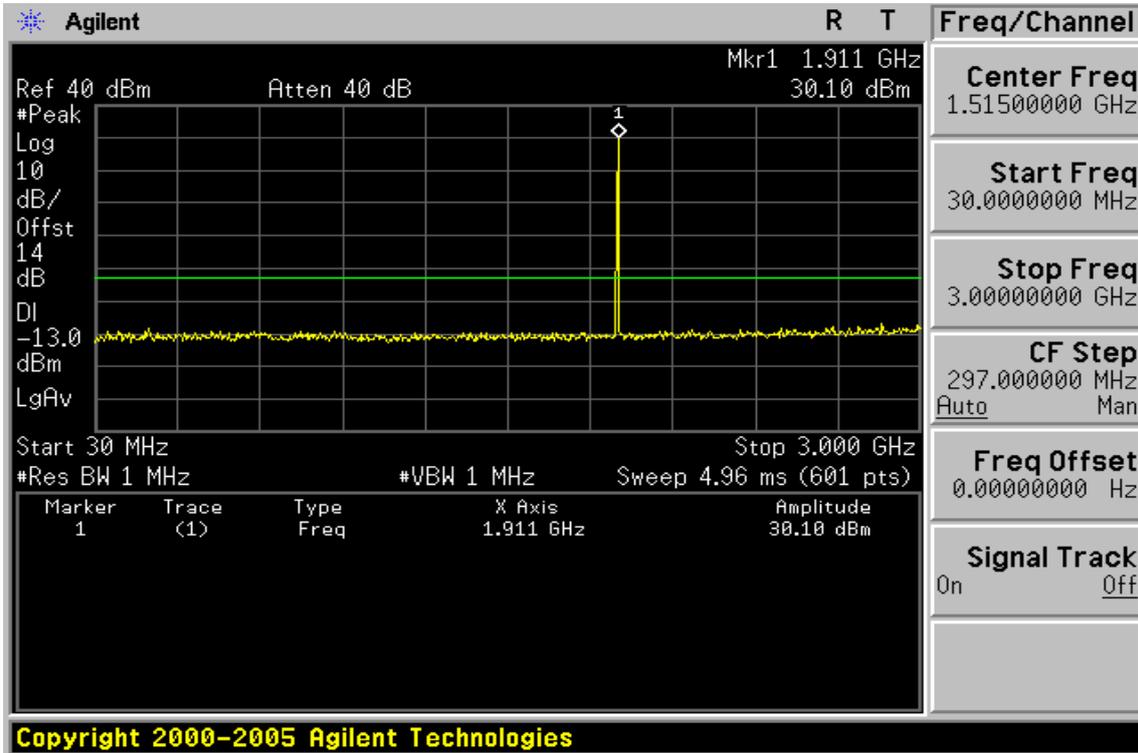


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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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Out of Band emission at antenna terminals – EDGE 1900

Fundamental Frequency :1850.2 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---
19860.00	S	-23.07	-13.00	10.07

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
15980.00	S	-22.72	-13.00	9.72
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---
19580.00	S	-22.42	-13.00	9.42

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-29: Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

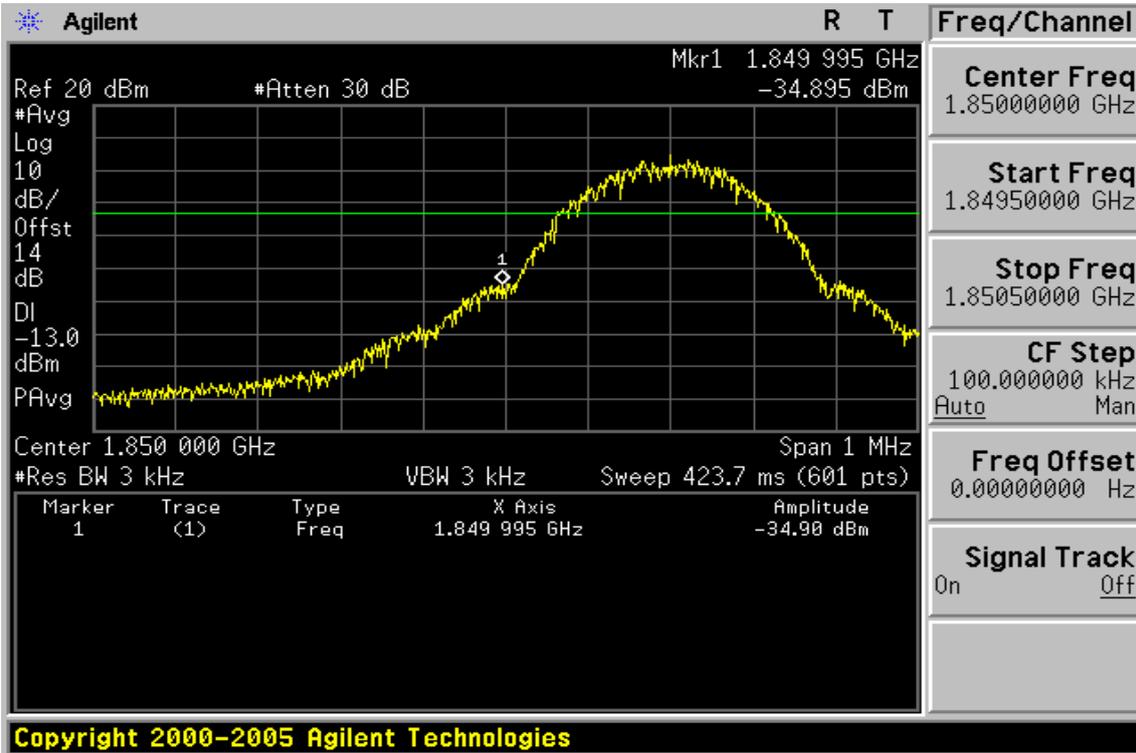
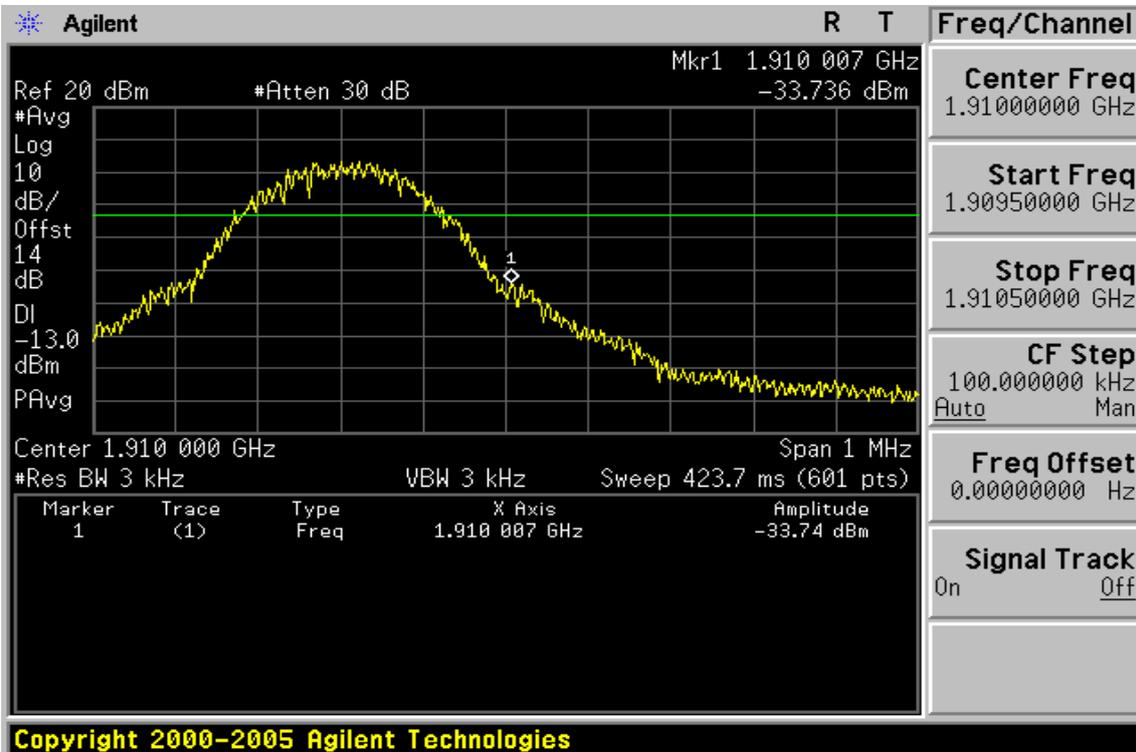


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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Band edge emission at antenna terminals – EDGE 1900 Low & High

Test Mode EDGE 1900: Engineer :Nick

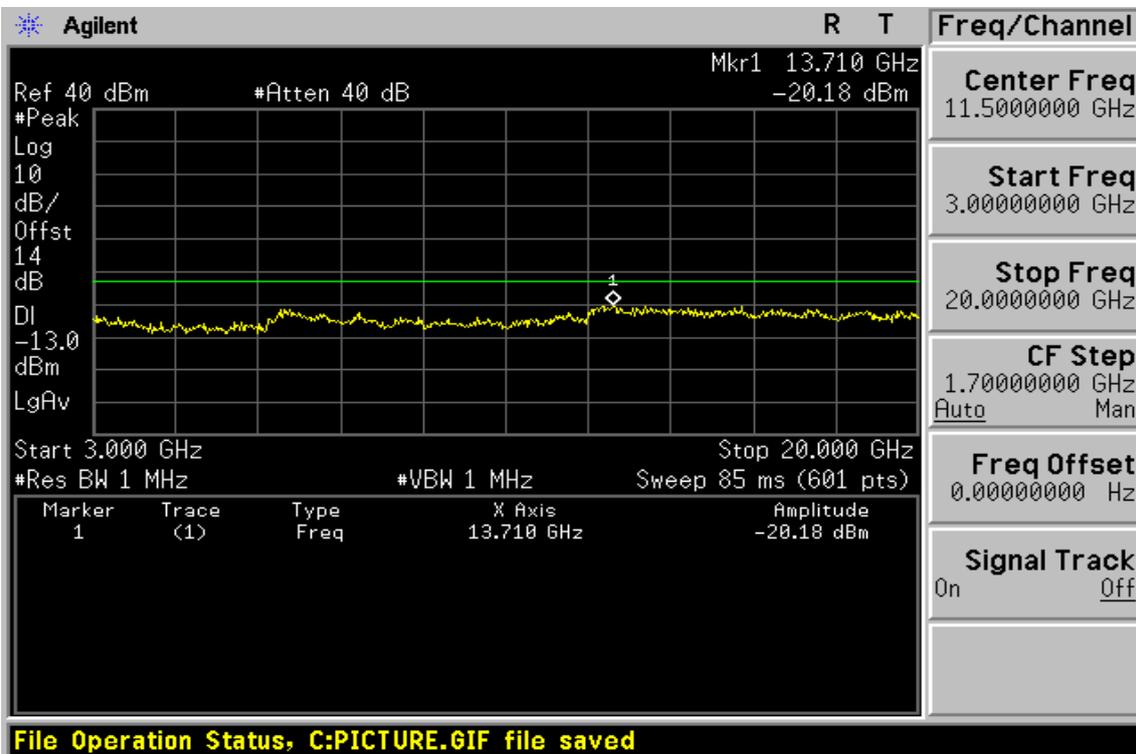
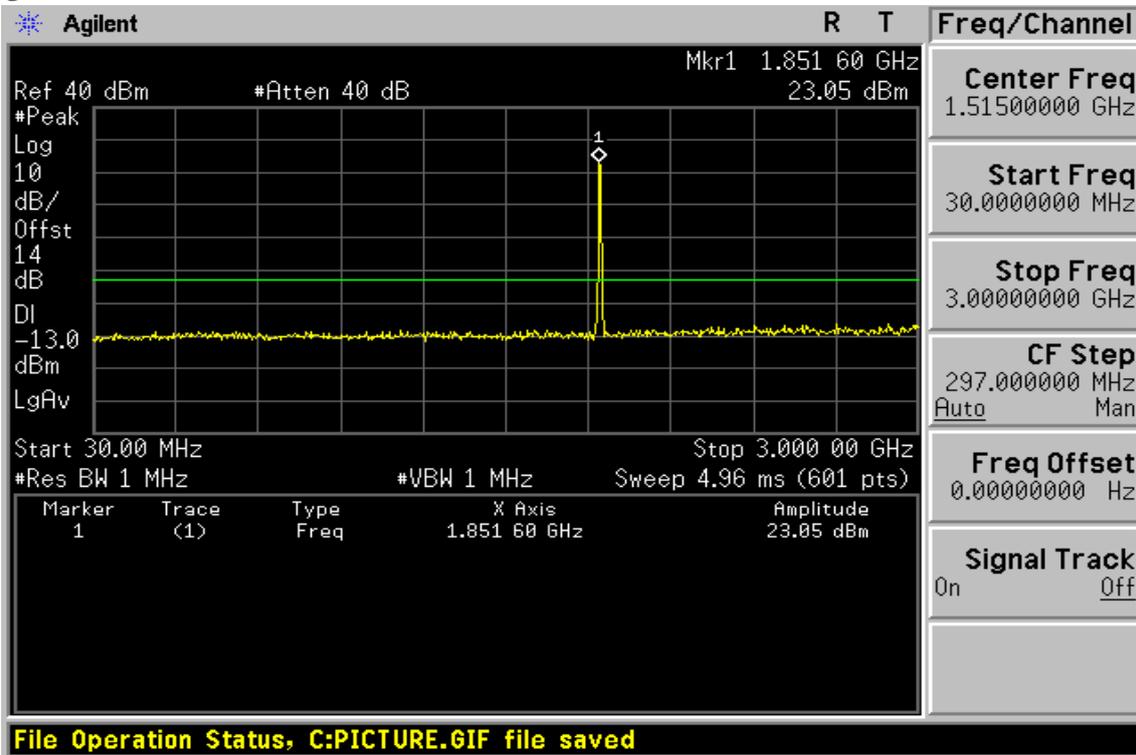
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.995	-34.90	-13.00	21.90
1910.007	-33.74	-13.00	20.74

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Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest

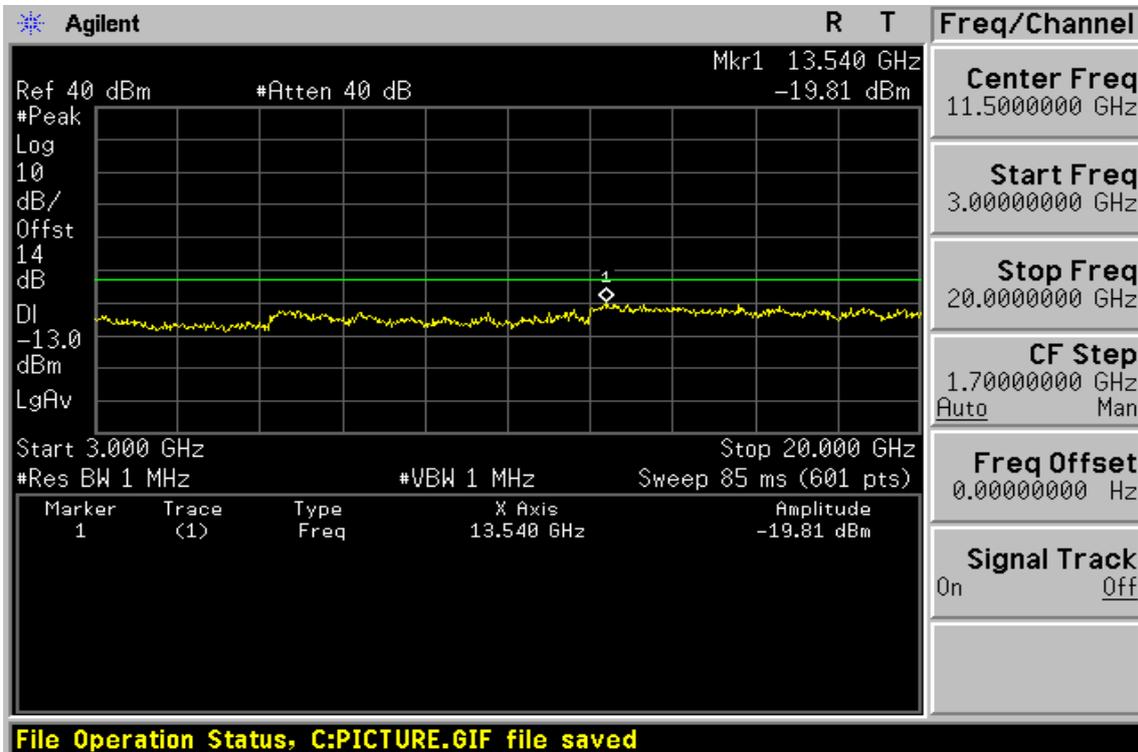
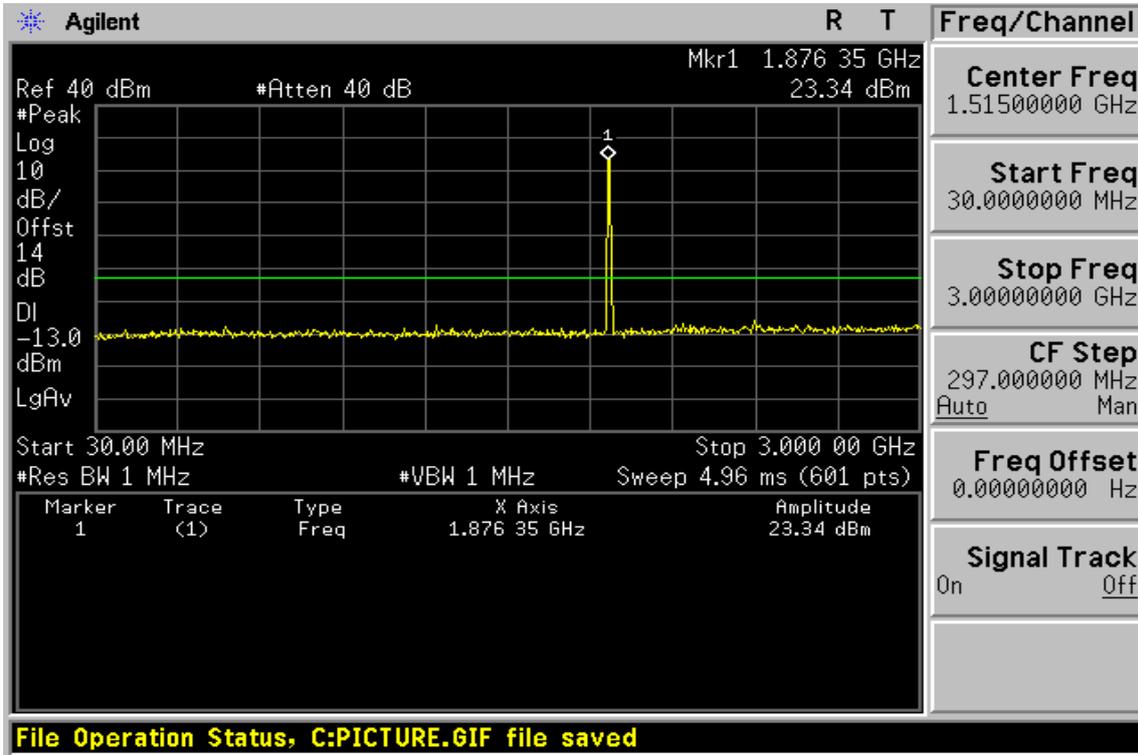


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Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid

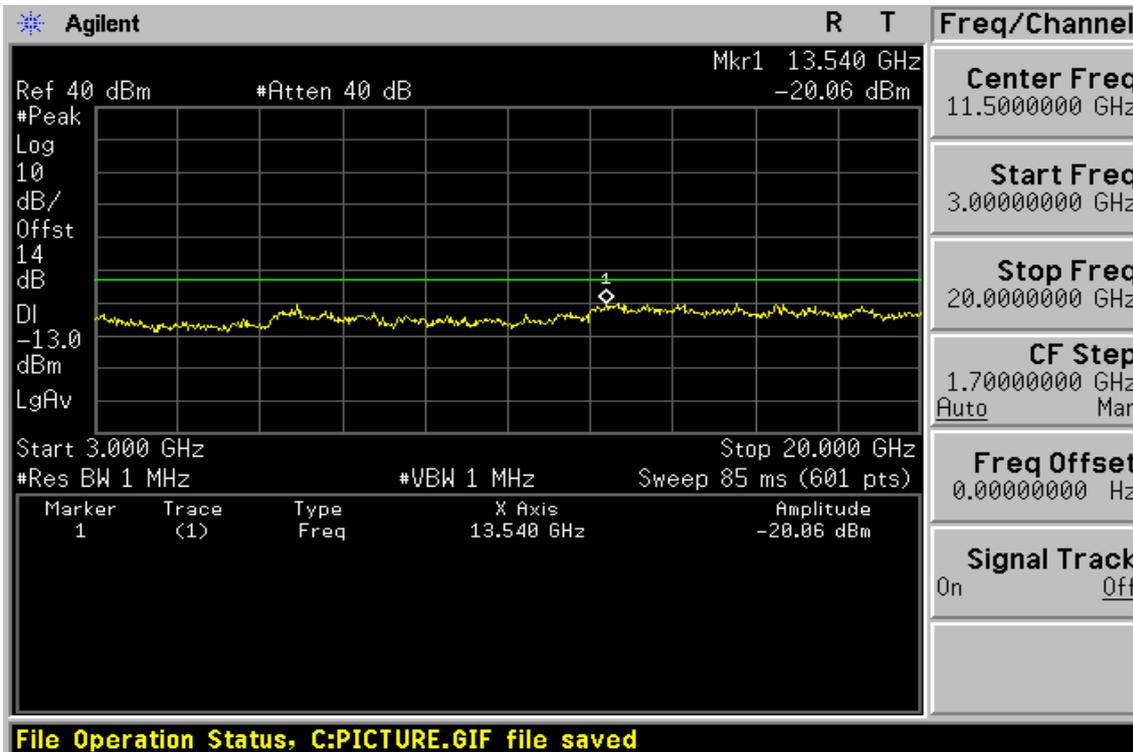
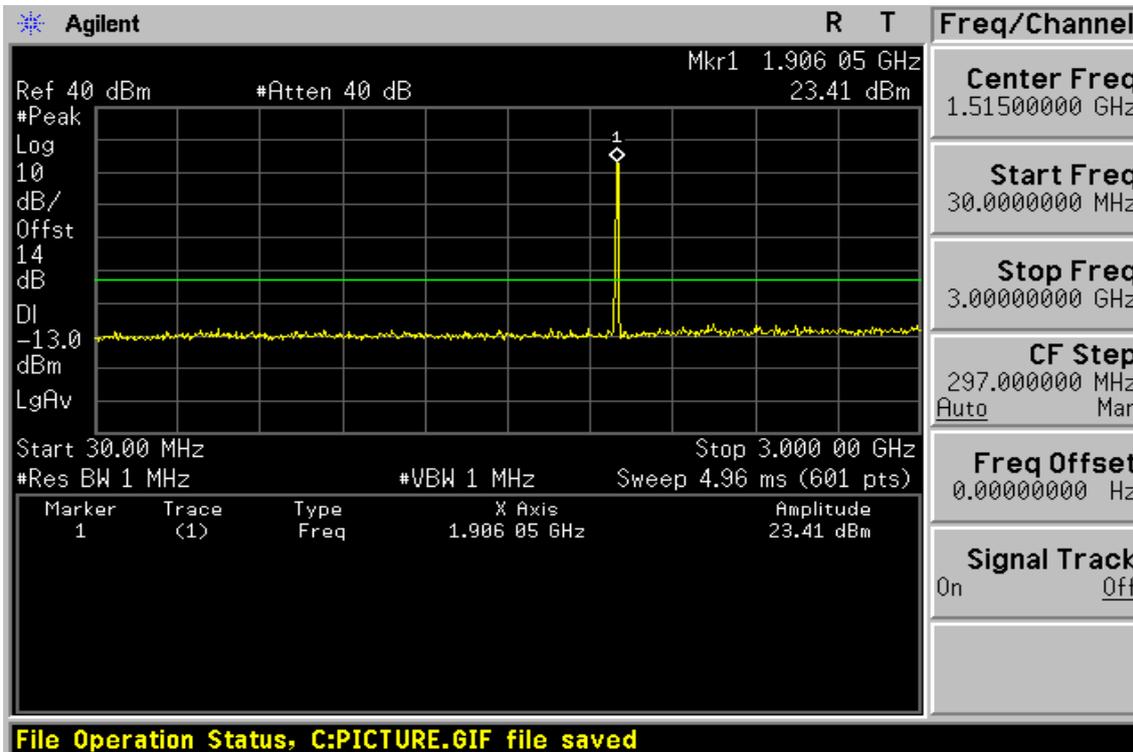


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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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Out of Band emission at antenna terminals – WCDMA II

Fundamental Frequency :1852.4 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
13710.00	S	-20.18	-13.00	7.18
14819.20	H	---	-13.00	---
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13540.00	S	-19.81	-13.00	6.81
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
13540.00	S	-20.06	-13.00	7.06
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-34: Band edge emission at antenna terminals – WCDMA II Channel Lowest

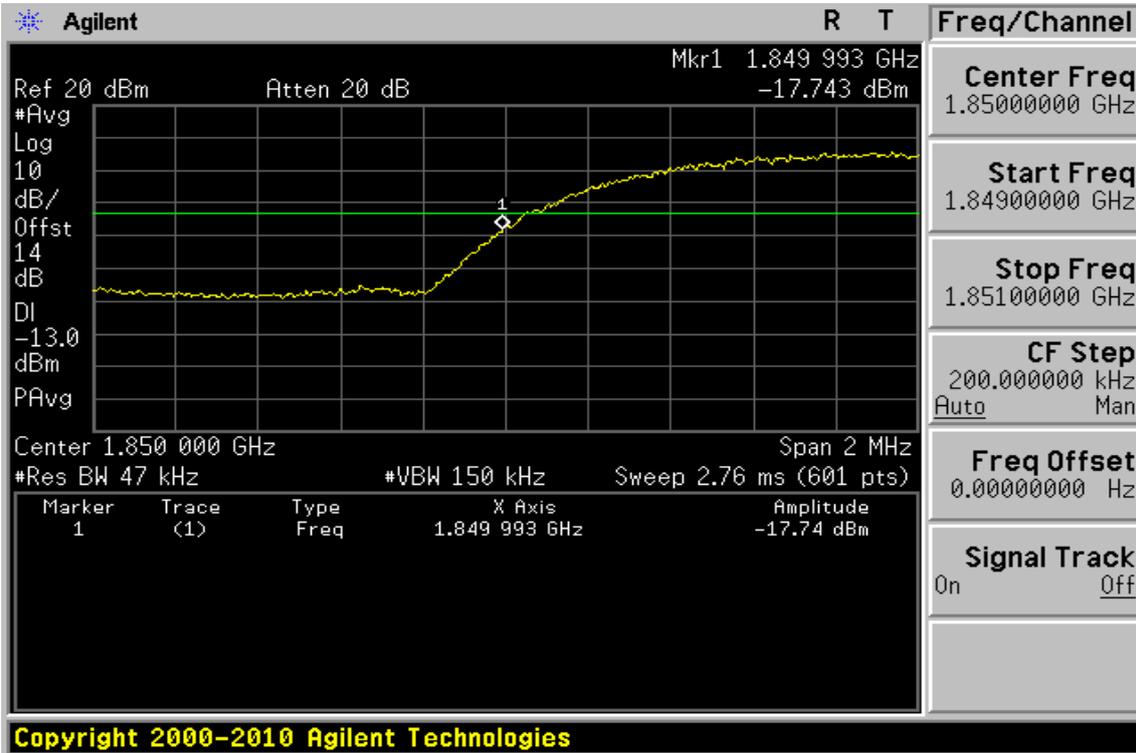
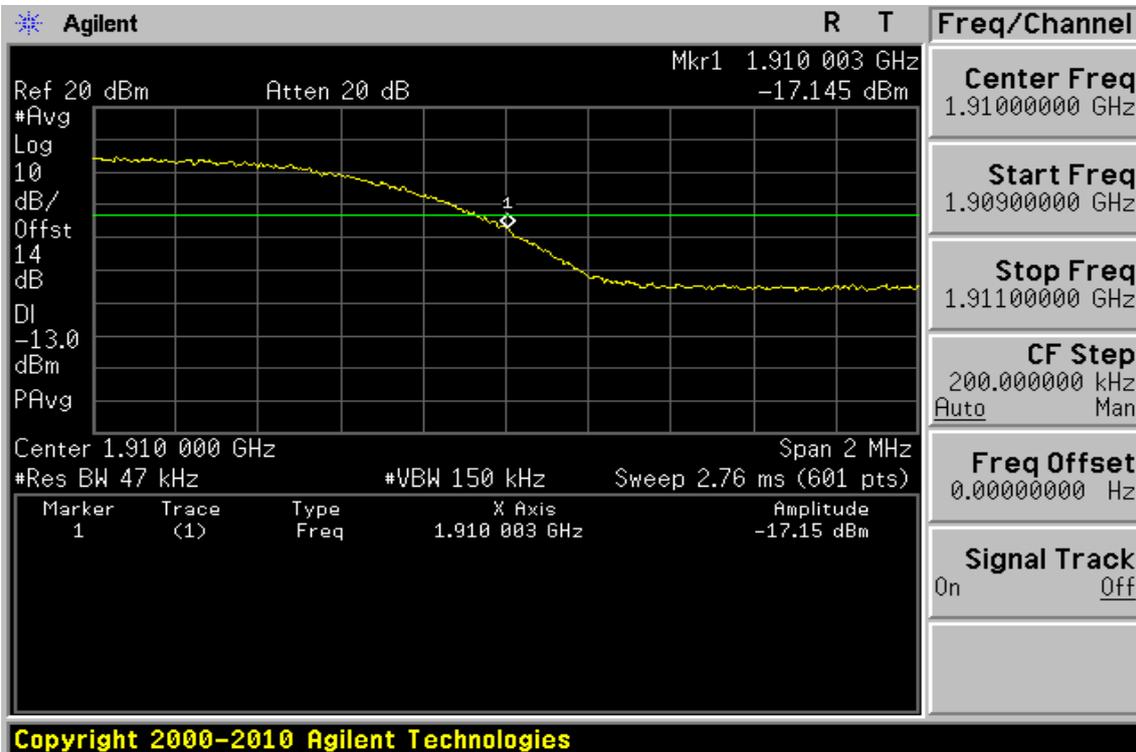


Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest



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Band edge emission at antenna terminals – WCDMA II Low & High

Test Mode WCDMA II Engineer :Nick

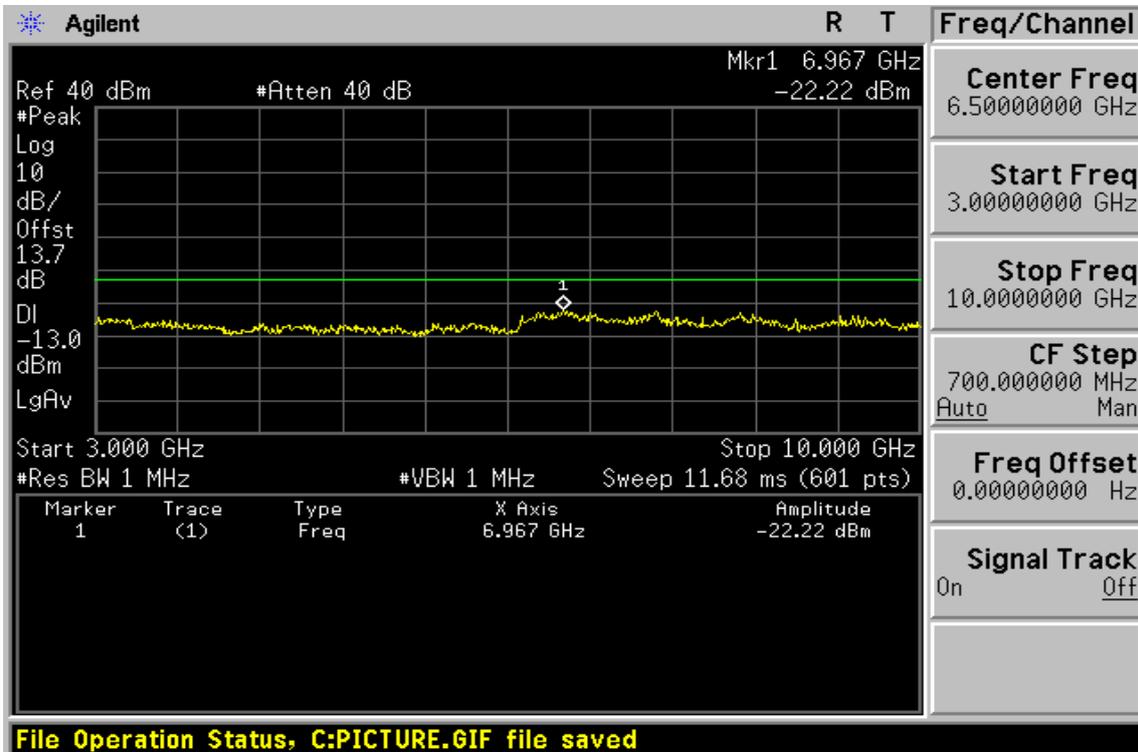
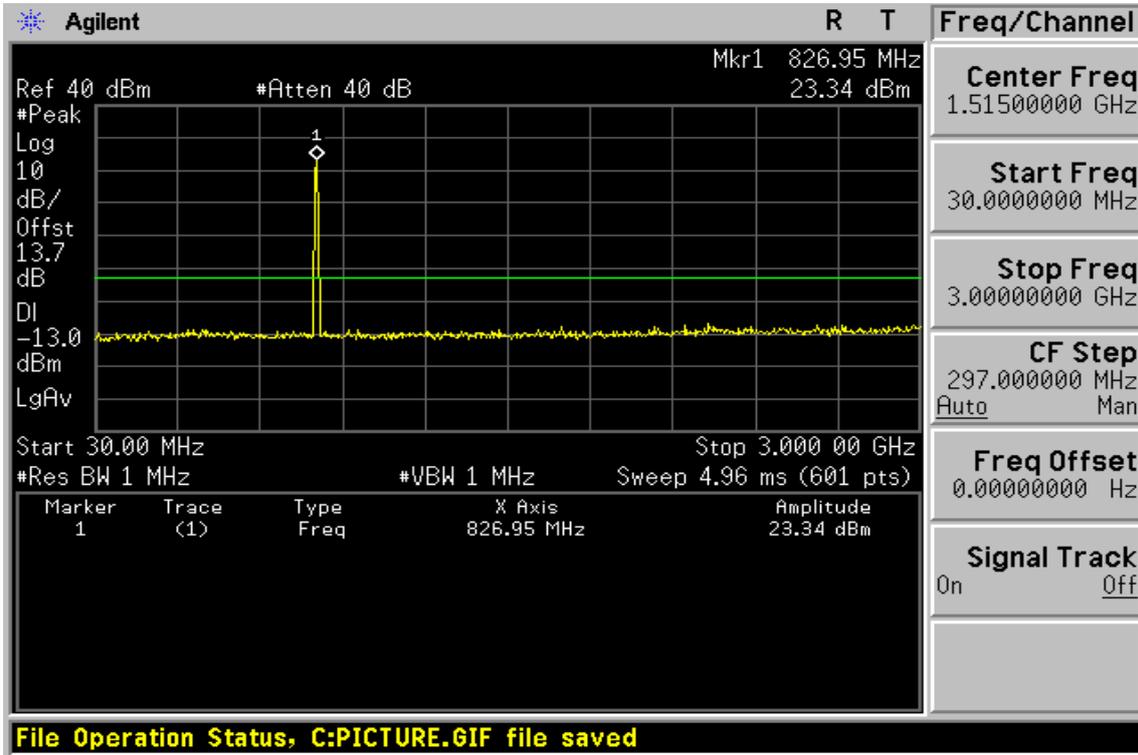
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.993	-17.74	-13.00	4.74
1910.003	-17.15	-13.00	4.15

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Figure 9-36: Out of Band emission at antenna terminals – WCDMA V Channel Lowest

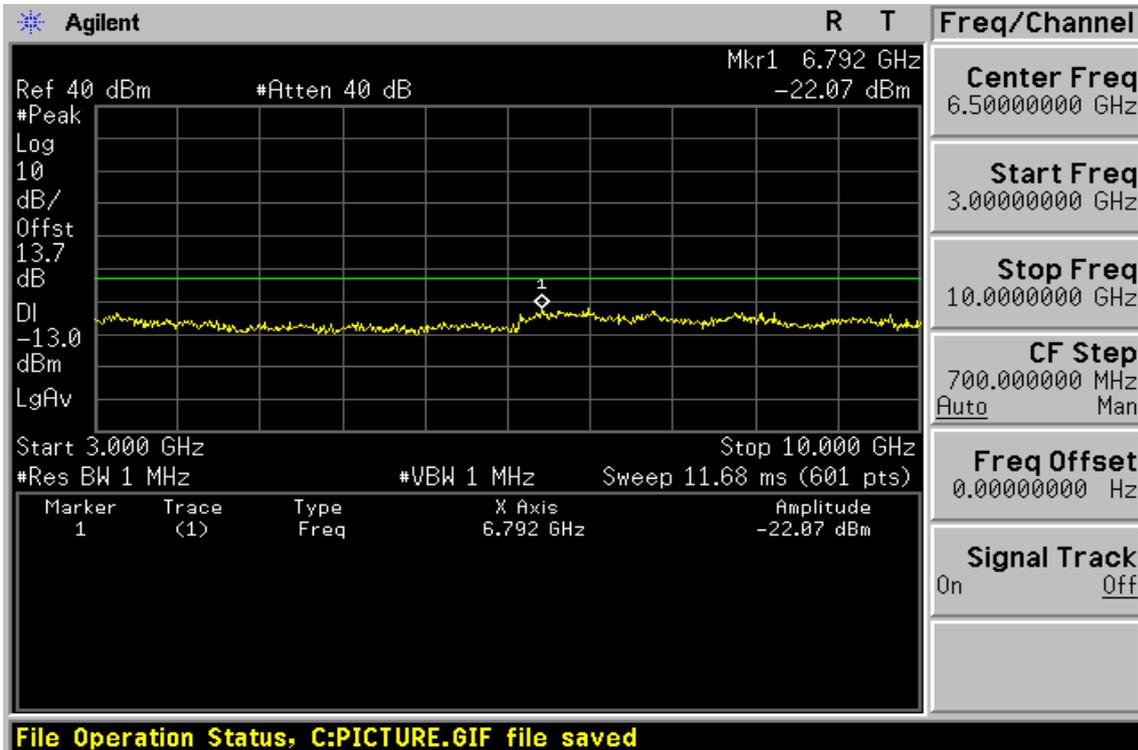
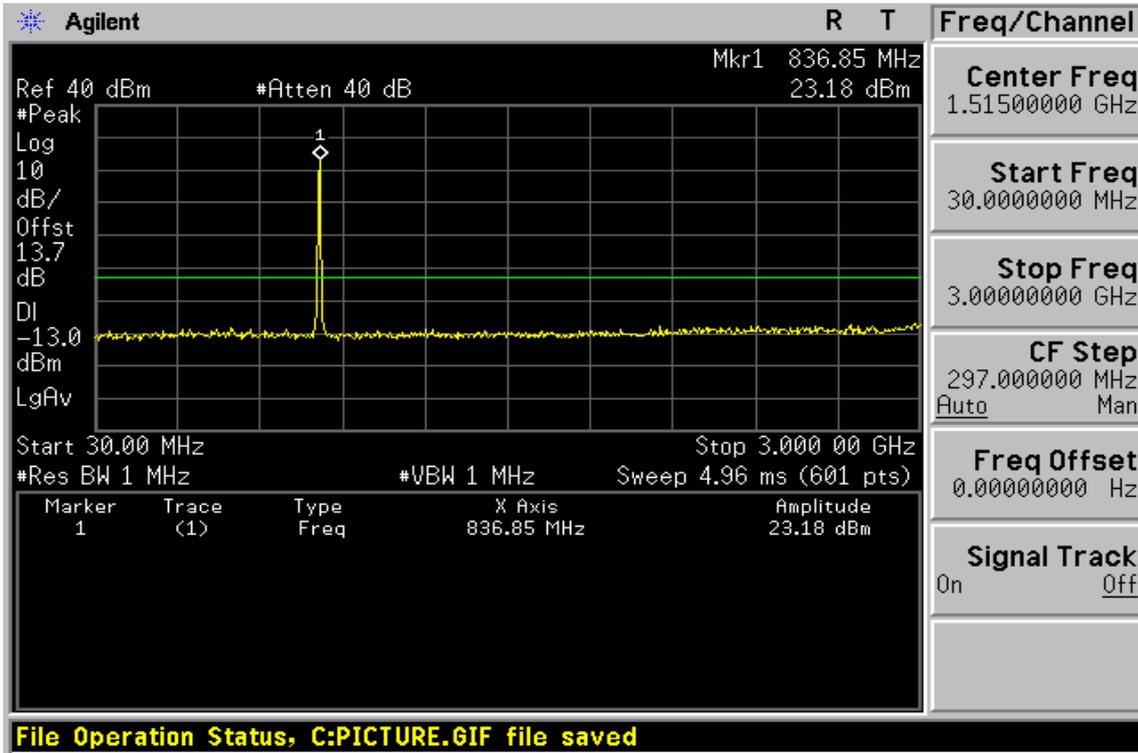


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Figure 9-37: Out of Band emission at antenna terminals – WCDMA V Channel Mid

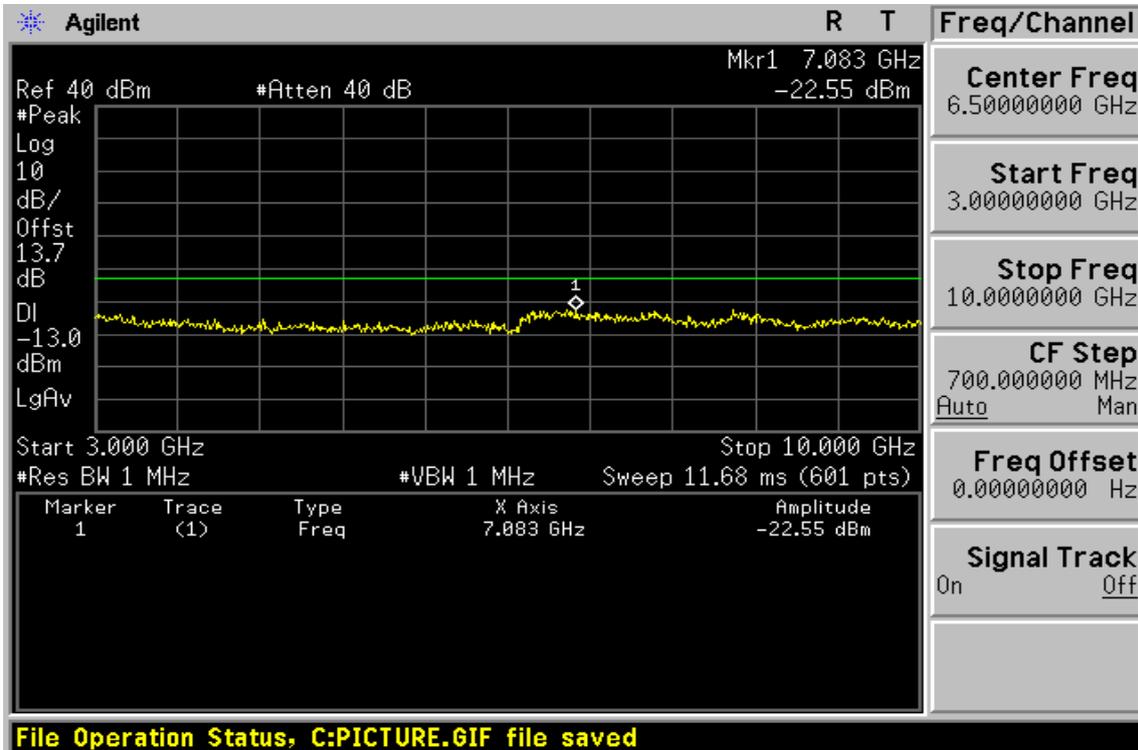
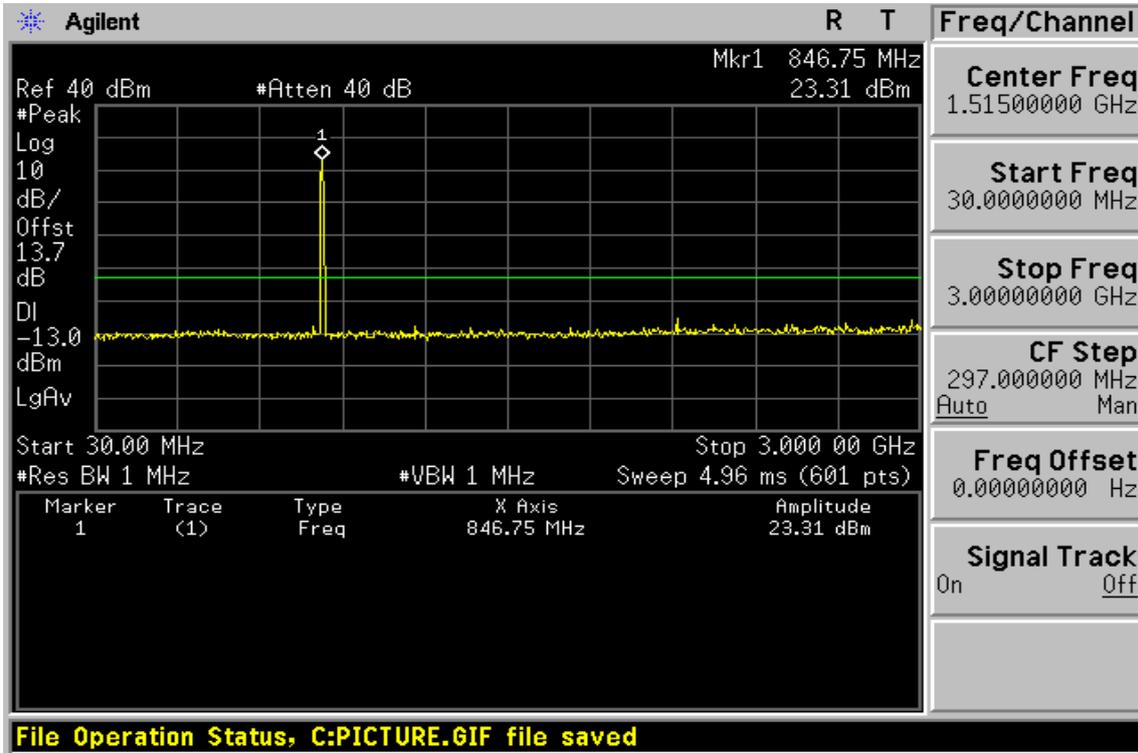


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Figure 9-38: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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Out of Band emission at antenna terminals – WCDMA V

Fundamental Frequency :826.4 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
6967.00	S	-22.22	-13.00	9.22
7437.60	H	---	-13.00	---
8264.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
6792.00	S	-22.07	-13.00	9.07
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
7083.00	S	-22.55	-13.00	9.55
7619.40	H	---	-13.00	---
8466.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-39: Band edge emission at antenna terminals – WCDMA V Channel Lowest

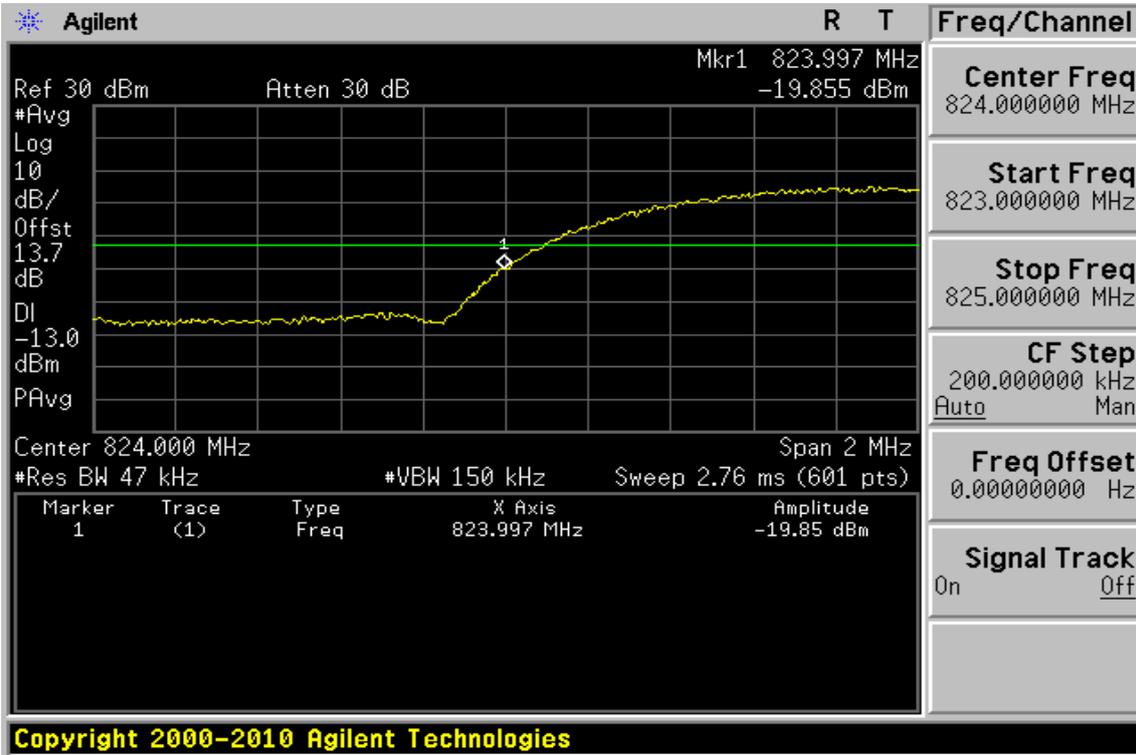
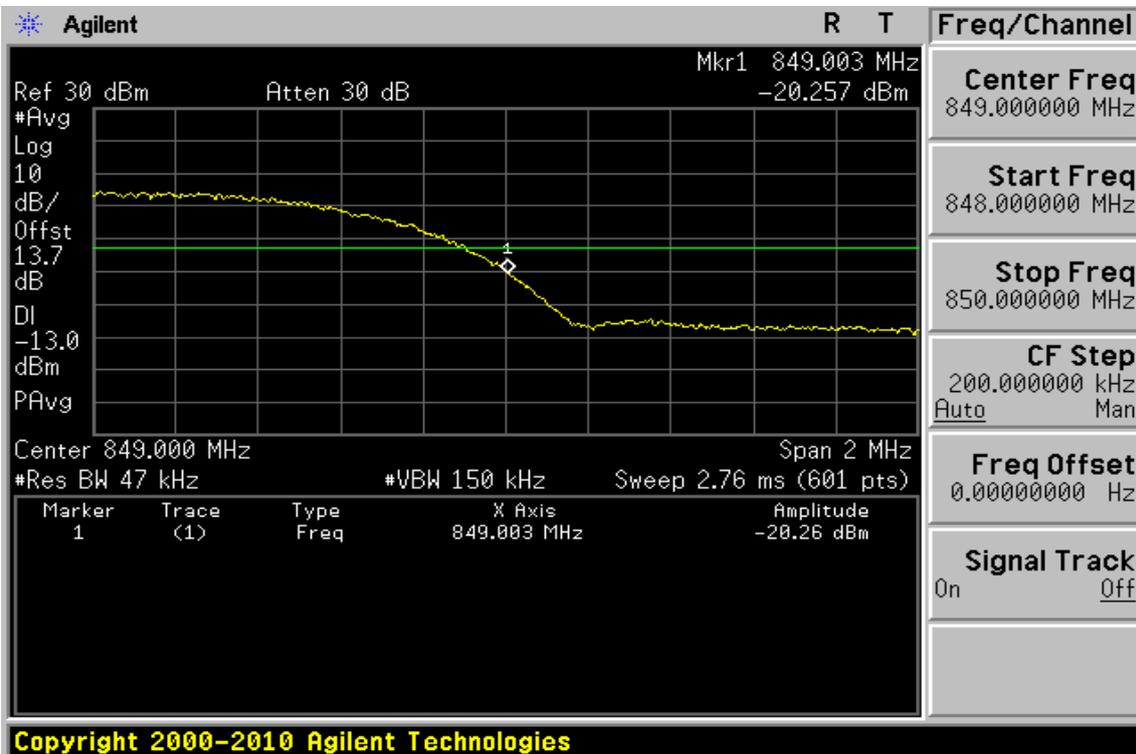


Figure 9-40: Band edge emission at antenna terminals – WCDMA V Channel Highest



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Band edge emission at antenna terminals – WCDMA V Low & High

Test Mode WCDMA V Engineer :Nick

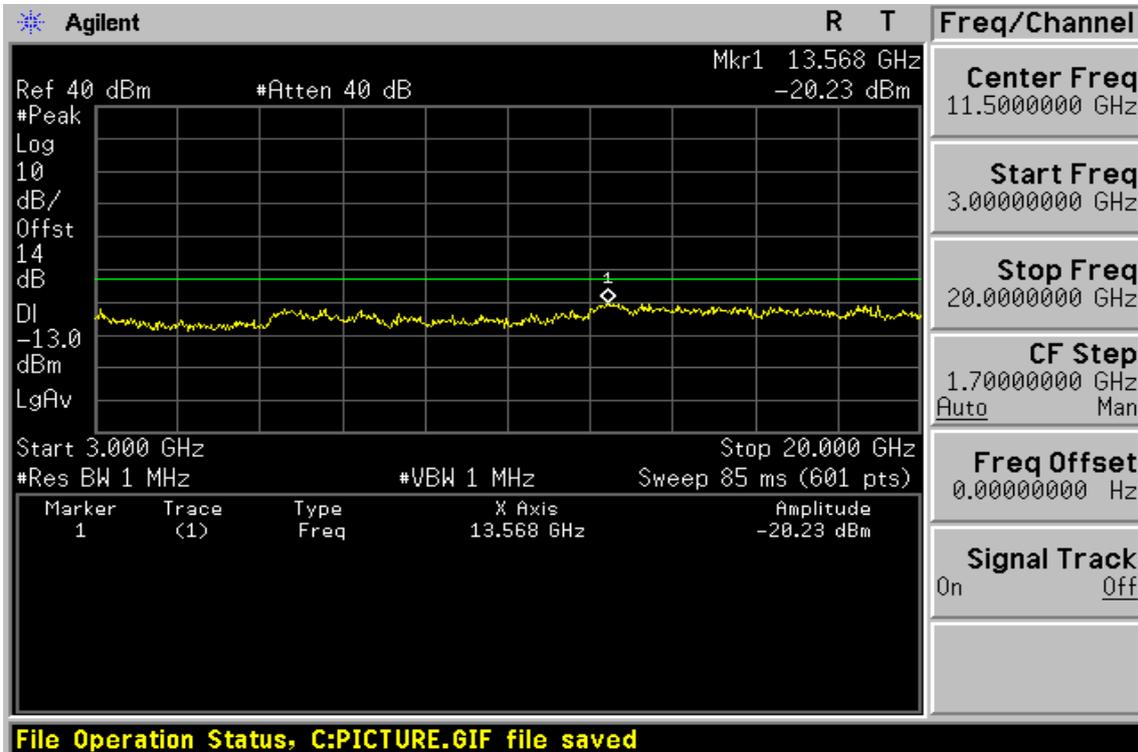
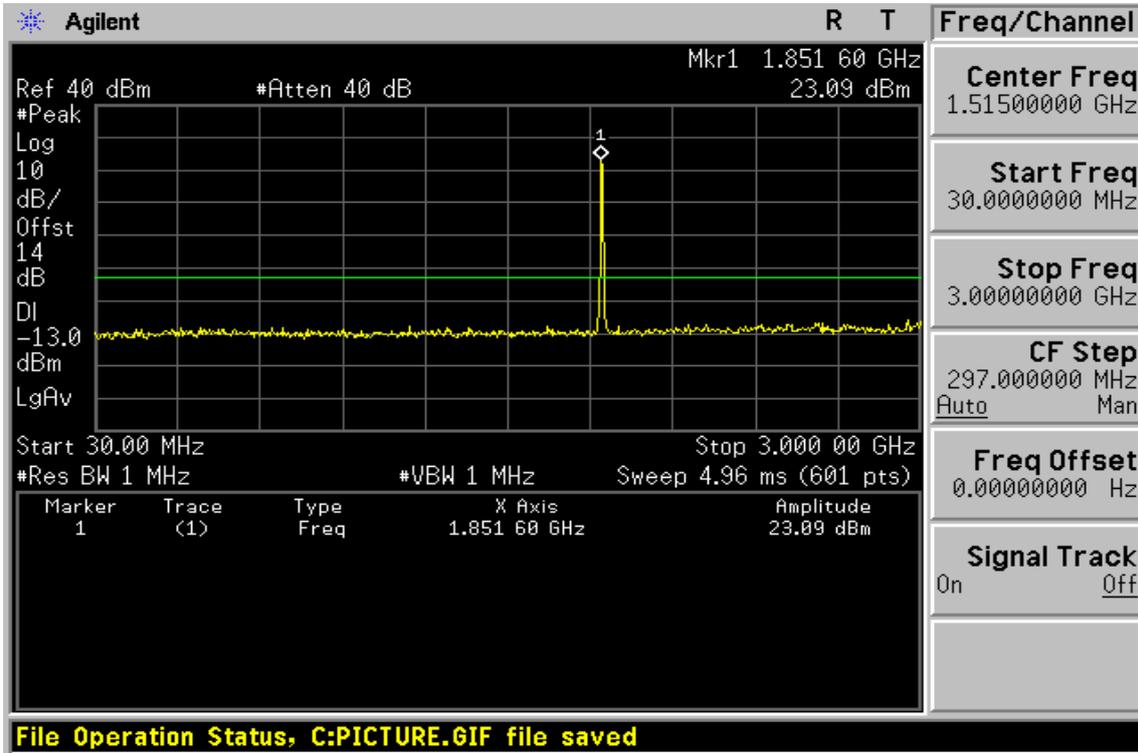
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.997	-19.85	-13.00	6.85
849.003	-20.26	-13.00	7.26

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Figure 9-41: Out of Band emission at antenna terminals – HSDPA II Channel Lowest

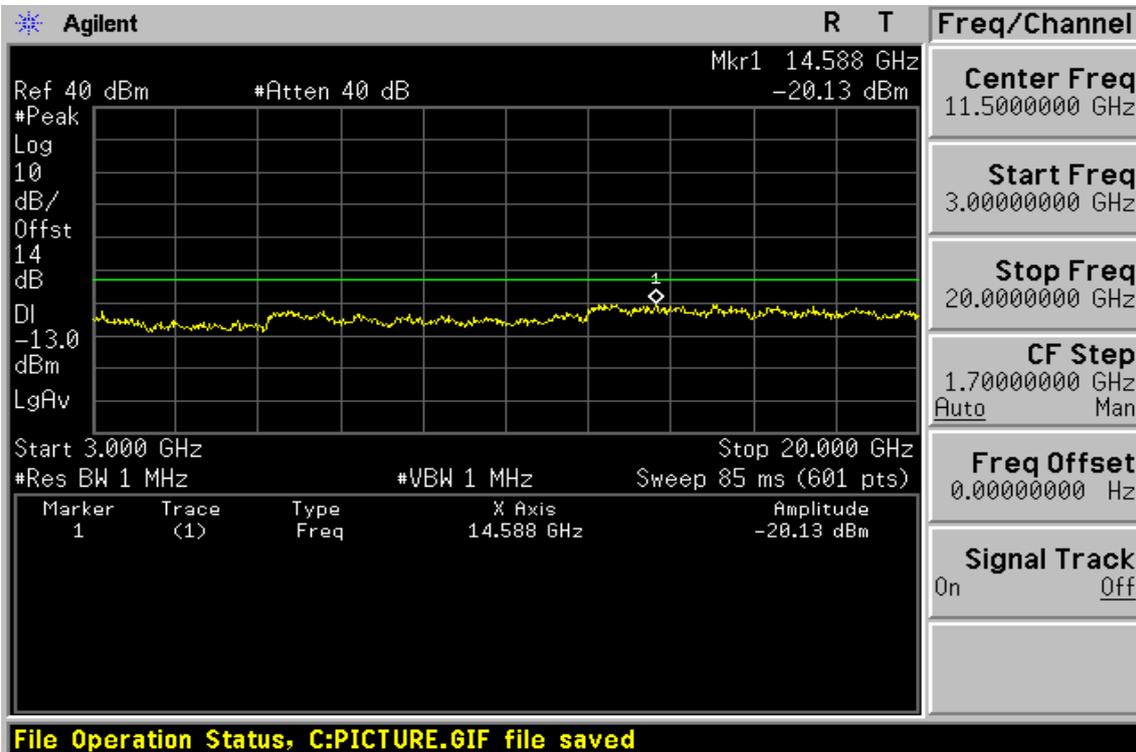
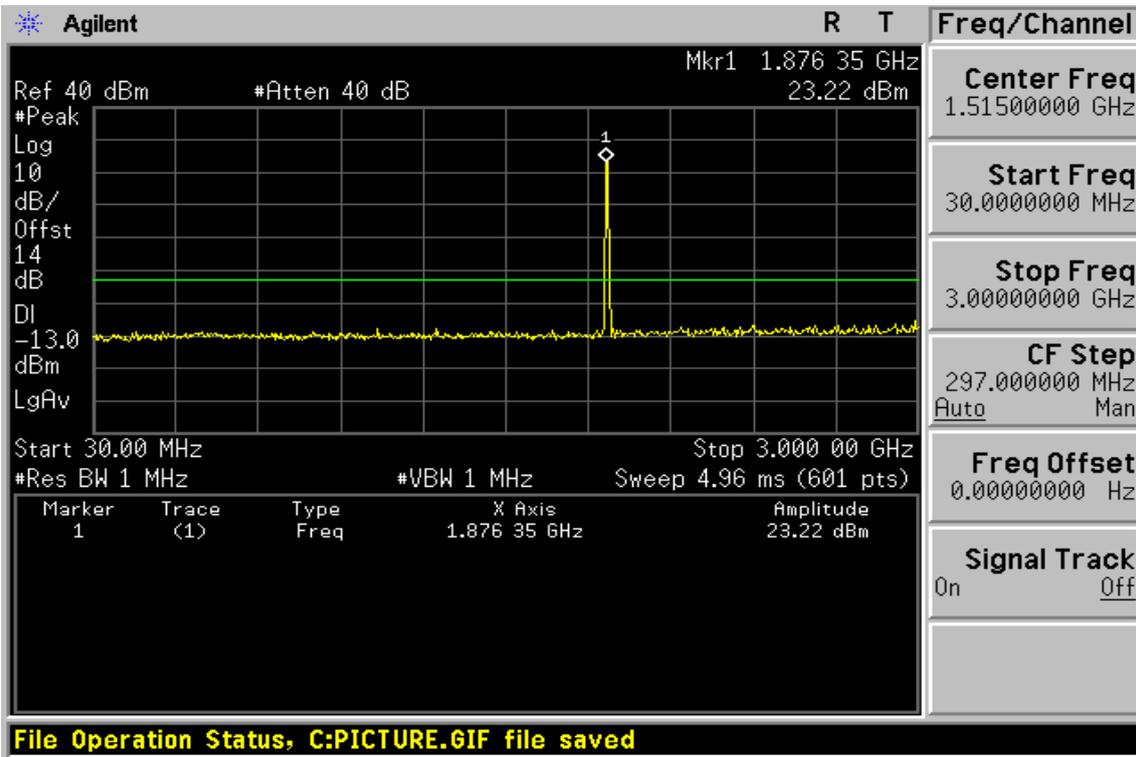


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Figure 9-42: Out of Band emission at antenna terminals – HSDPA II Channel Mid

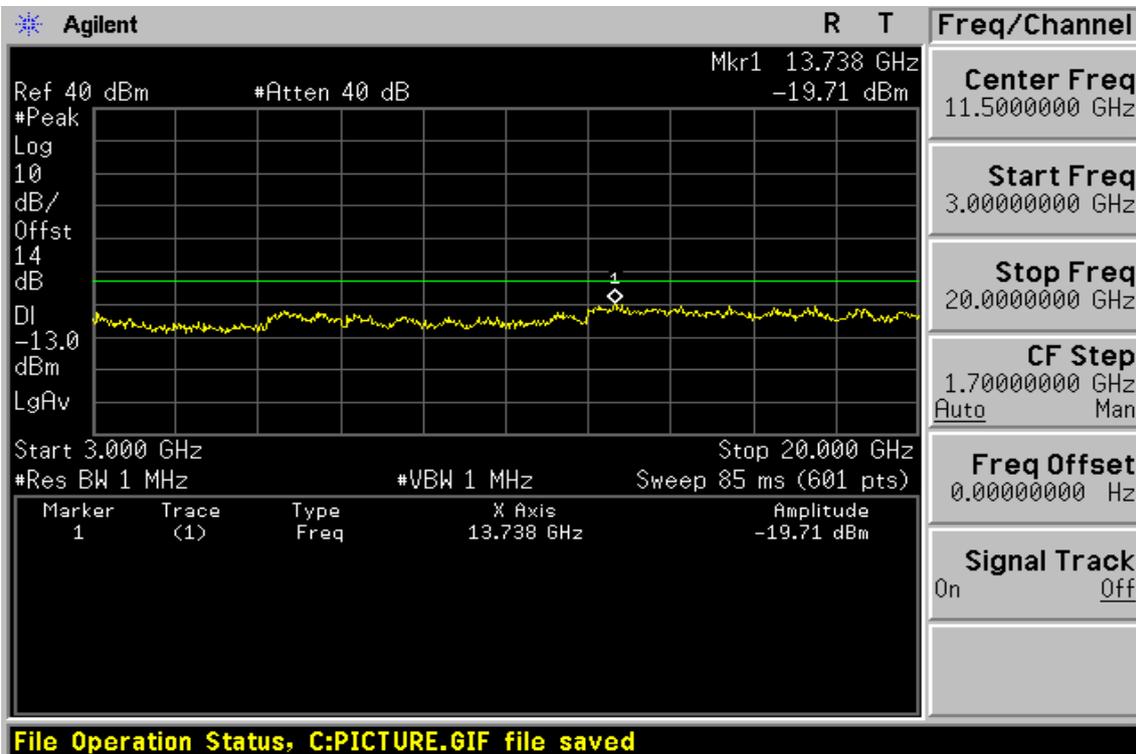
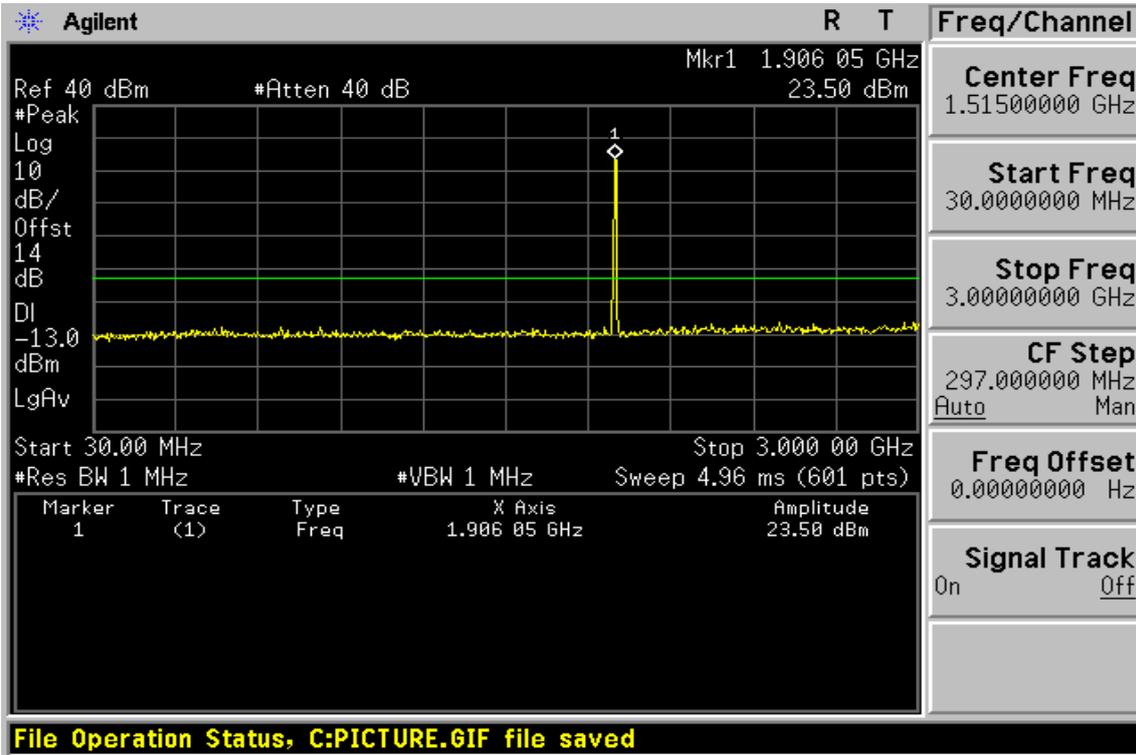


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Figure 9-43: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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Out of Band emission at antenna terminals – HSDPA II

Fundamental Frequency :1852.4 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
13568.00	S	-20.23	-13.00	7.23
14819.20	H	---	-13.00	---
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
14588.00	S	-20.13	-13.00	7.13
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
13738.00	S	-19.71	-13.00	6.71
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-44: Band edge emission at antenna terminals – HSDPA II Channel Lowest

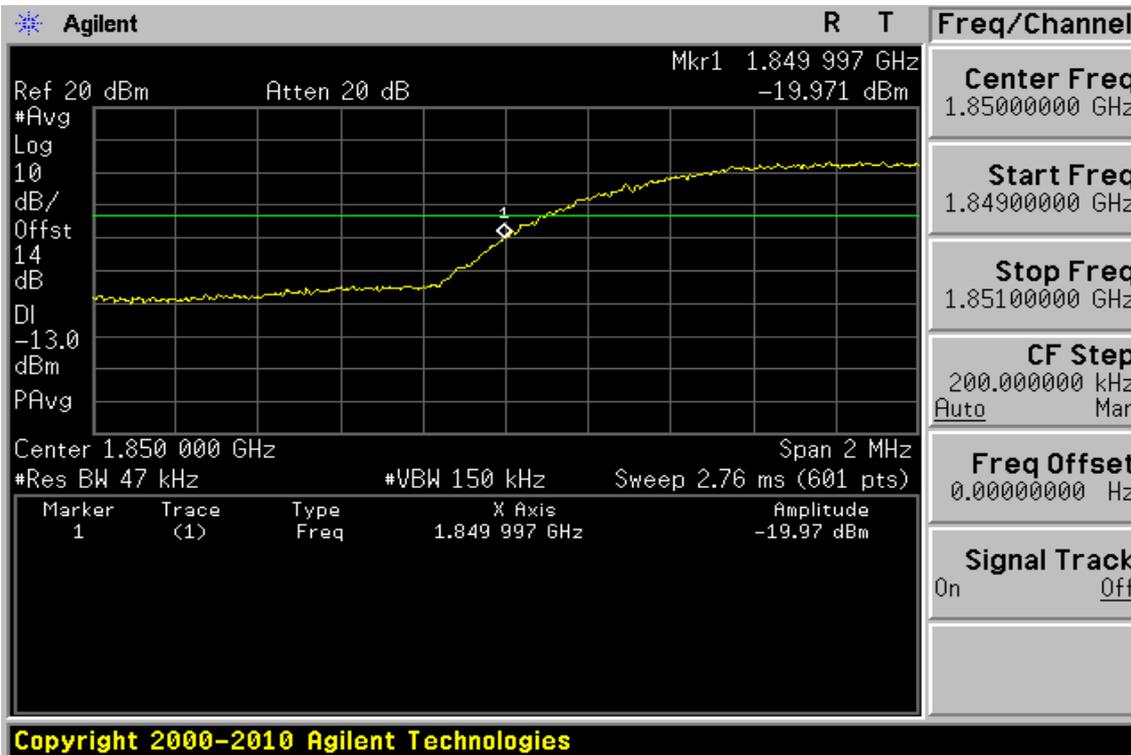


Figure 9-50: Band edge emission at antenna terminals – HSDPA II Channel Highest



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Band edge emission at antenna terminals – HSDPA II Low & High

Test Mode HSDPA II Engineer :Nick

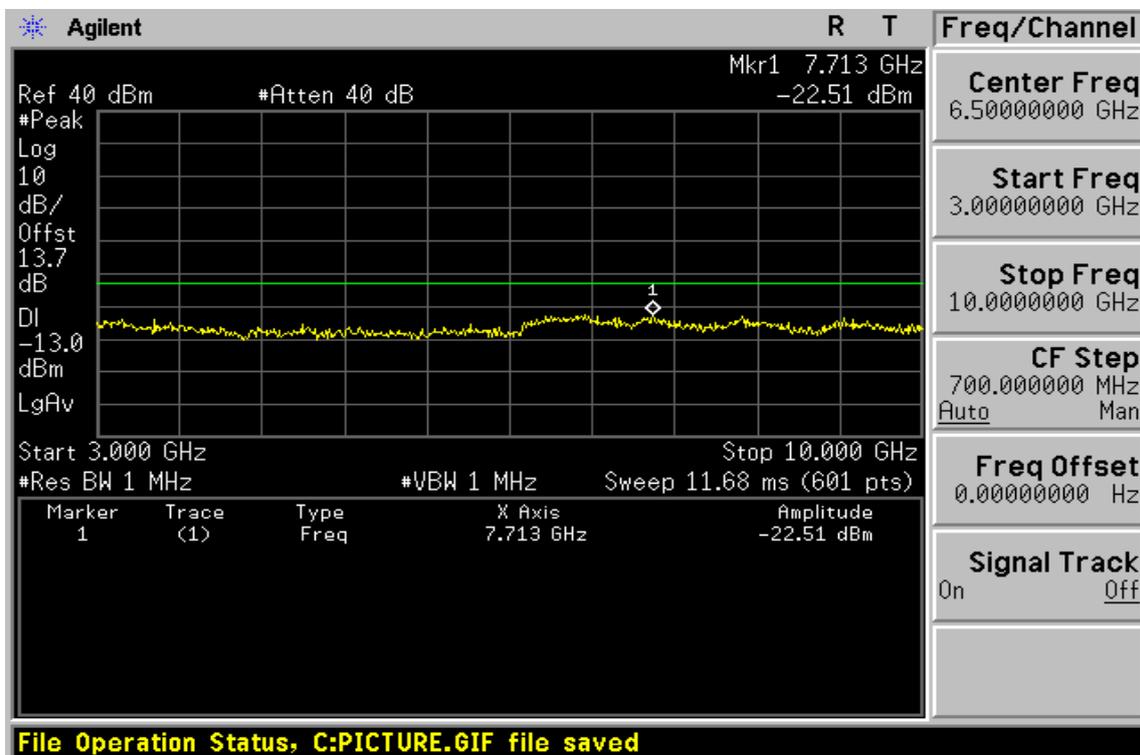
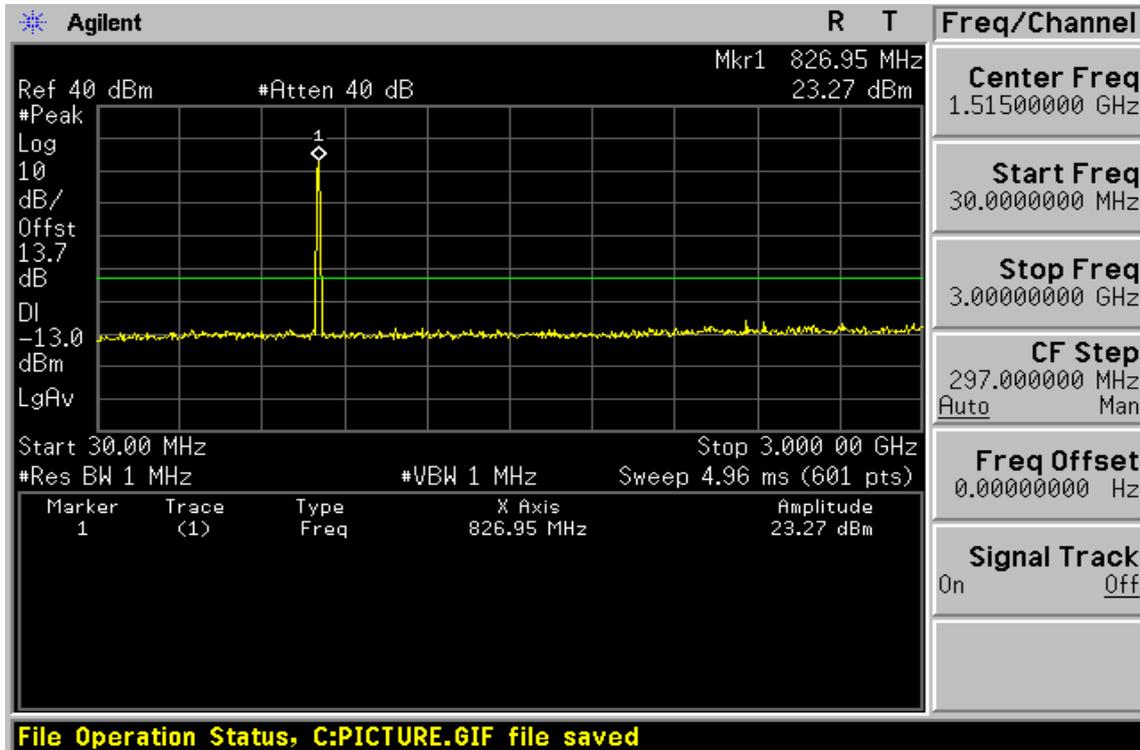
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.997	-19.97	-13.00	6.97
1910.003	-20.70	-13.00	7.70

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Figure 9-45: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

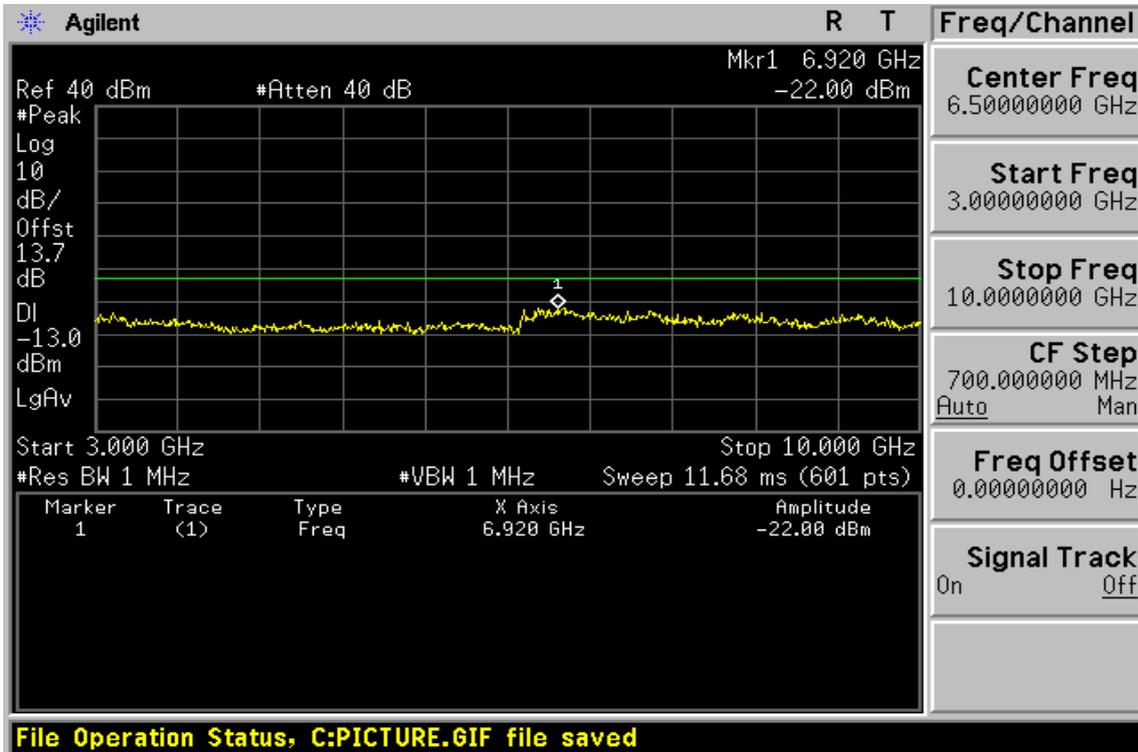
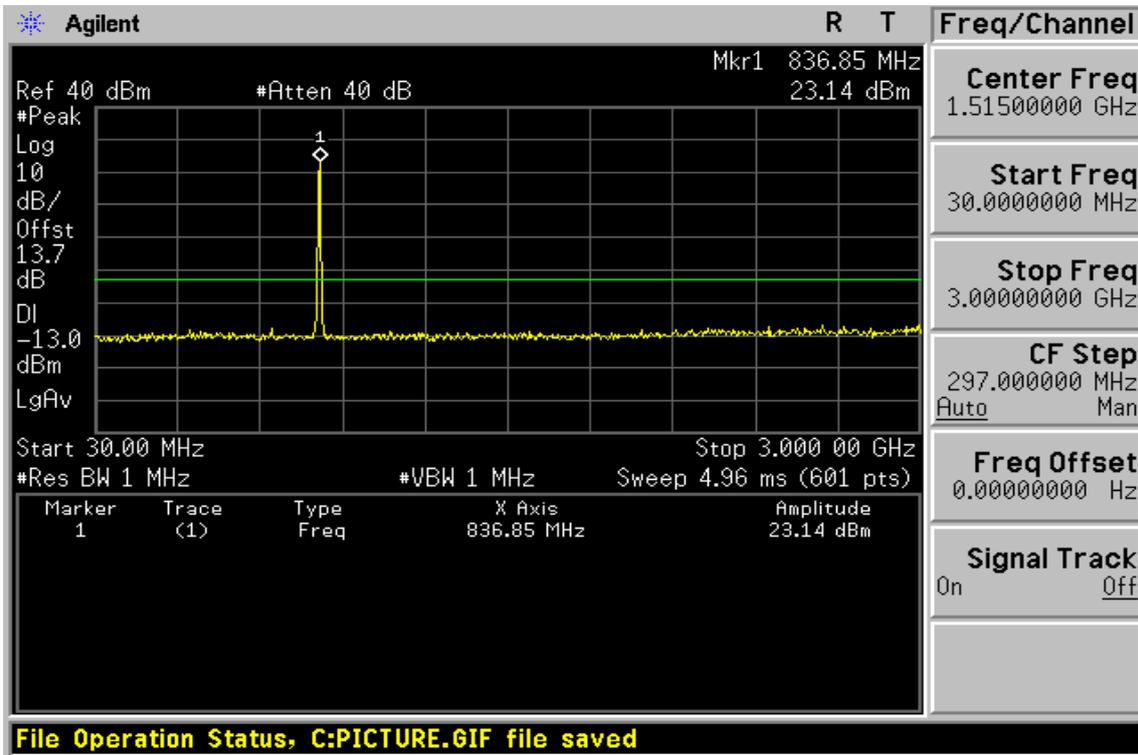


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Figure 9-46: Out of Band emission at antenna terminals – HSDPA V Channel Mid

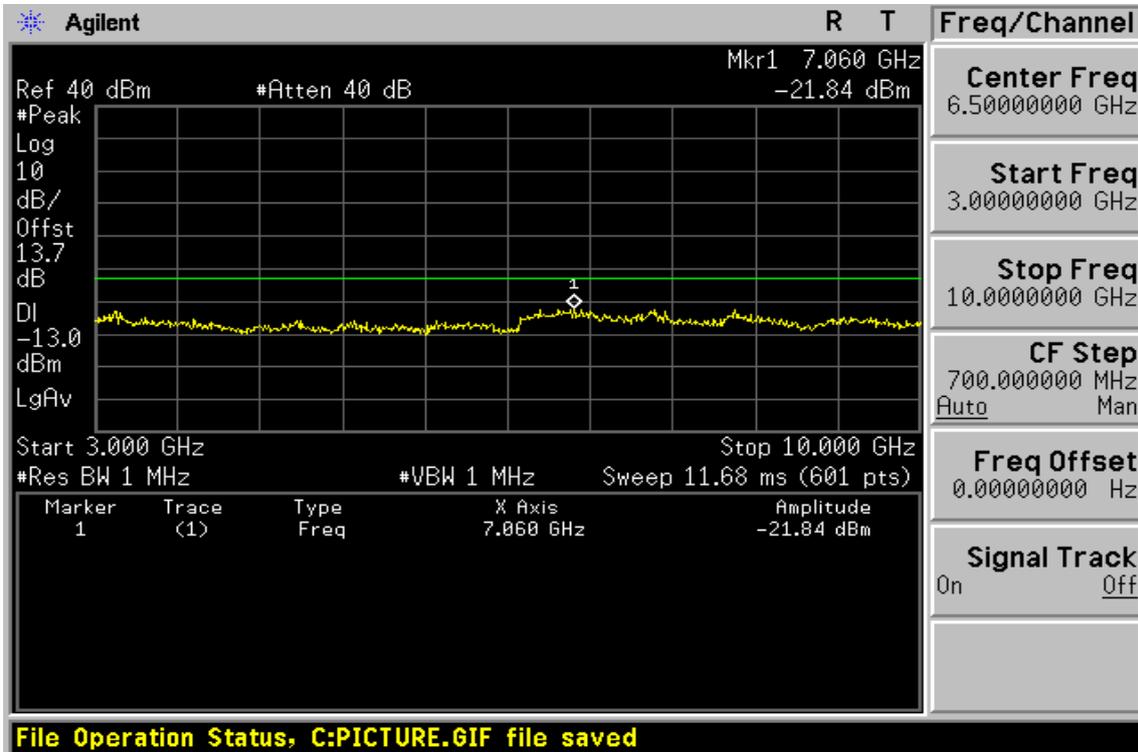
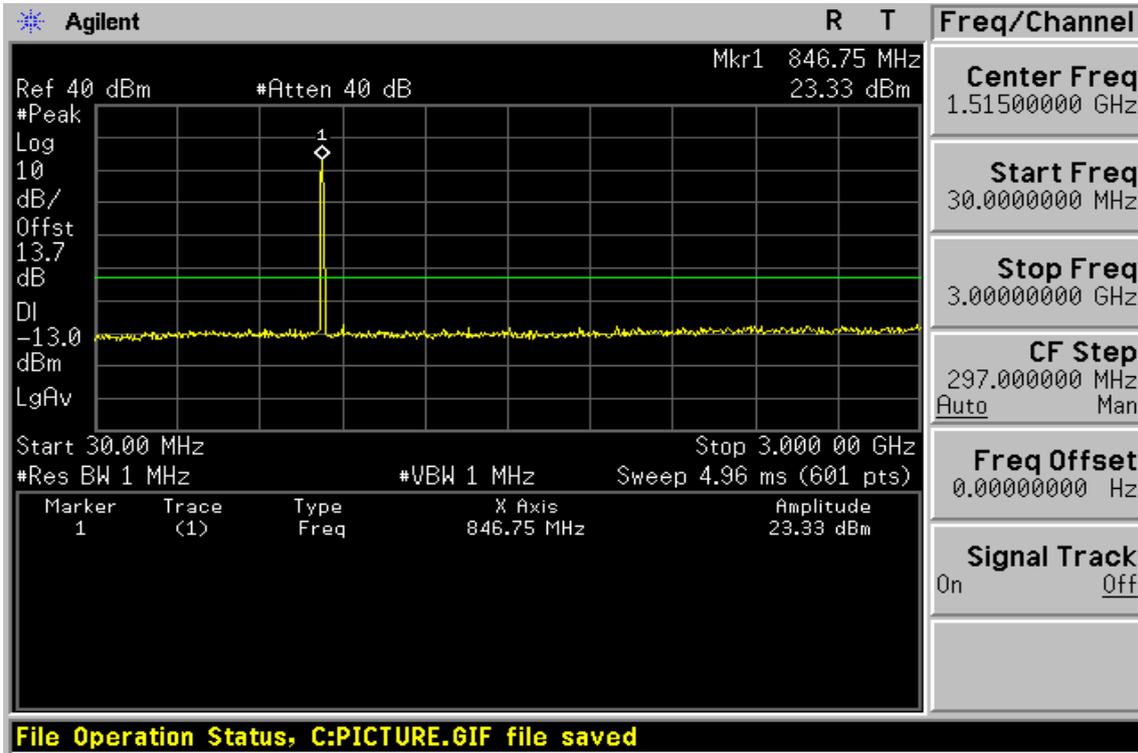


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Figure 9-47: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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Out of Band emission at antenna terminals – HSDPA V

Fundamental Frequency :826.4 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
7437.60	H	---	-13.00	---
7713.00	S	-22.51	-13.00	9.51
8264.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
6920.00	S	-22	-13.00	9.00
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
7060.00	S	-21.84	-13.00	8.84
7619.40	H	---	-13.00	---
8466.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-48: Band edge emission at antenna terminals – HSDPA V Channel Lowest

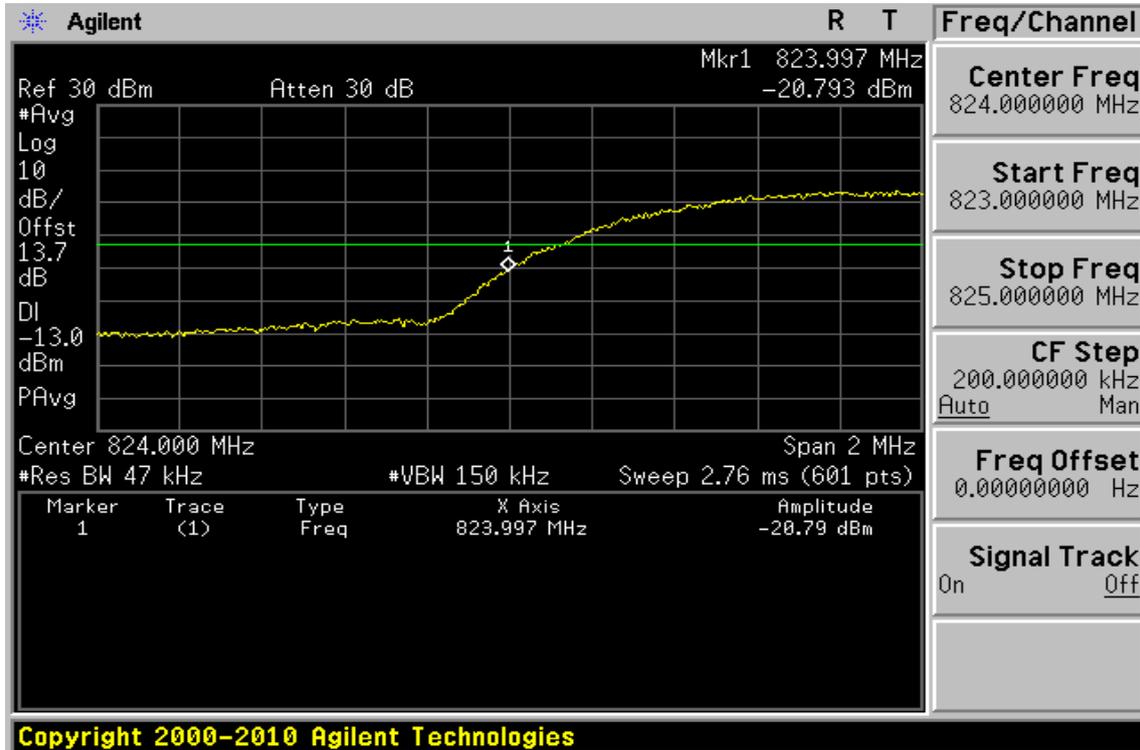
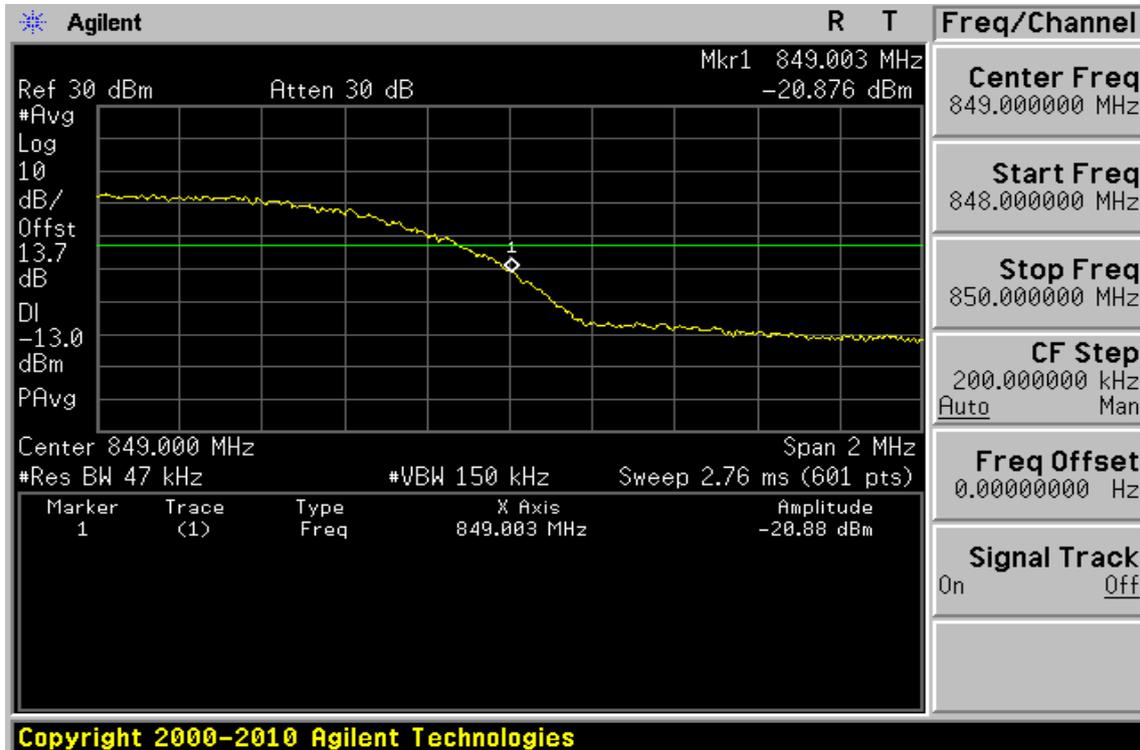


Figure 9-49: Band edge emission at antenna terminals – HSDPA V Channel Highest



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Band edge emission at antenna terminals – HSDPA V Low & High

Test Mode HSDPA V Engineer :Nick

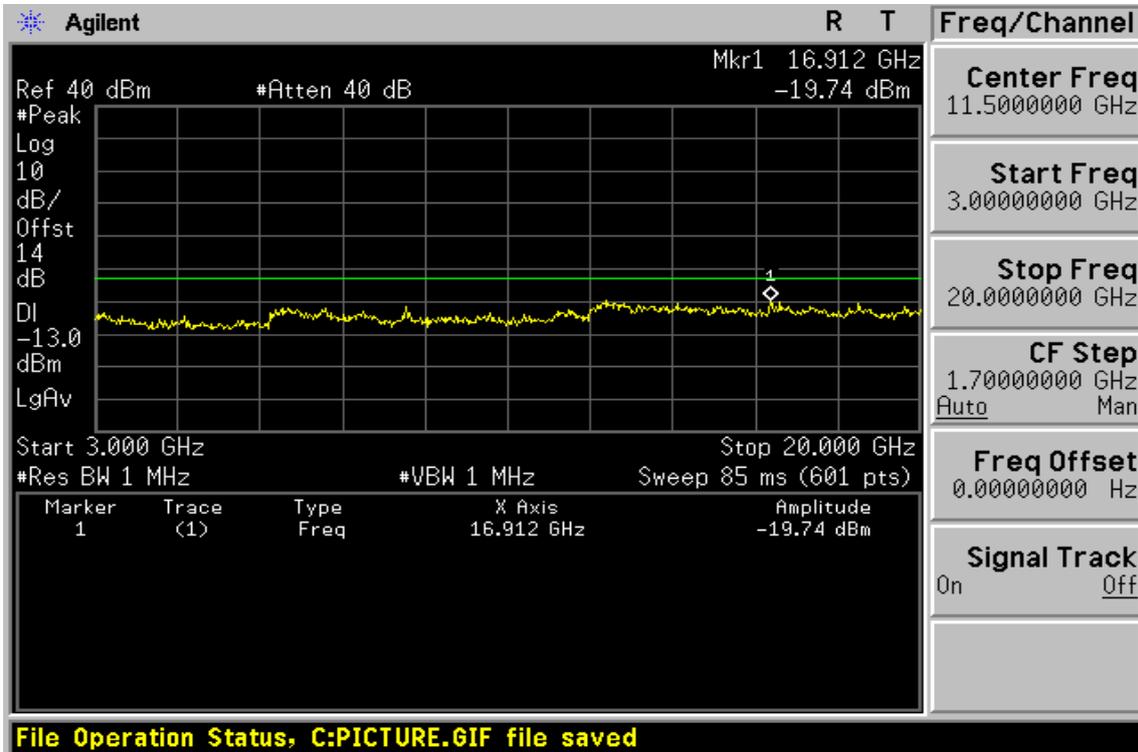
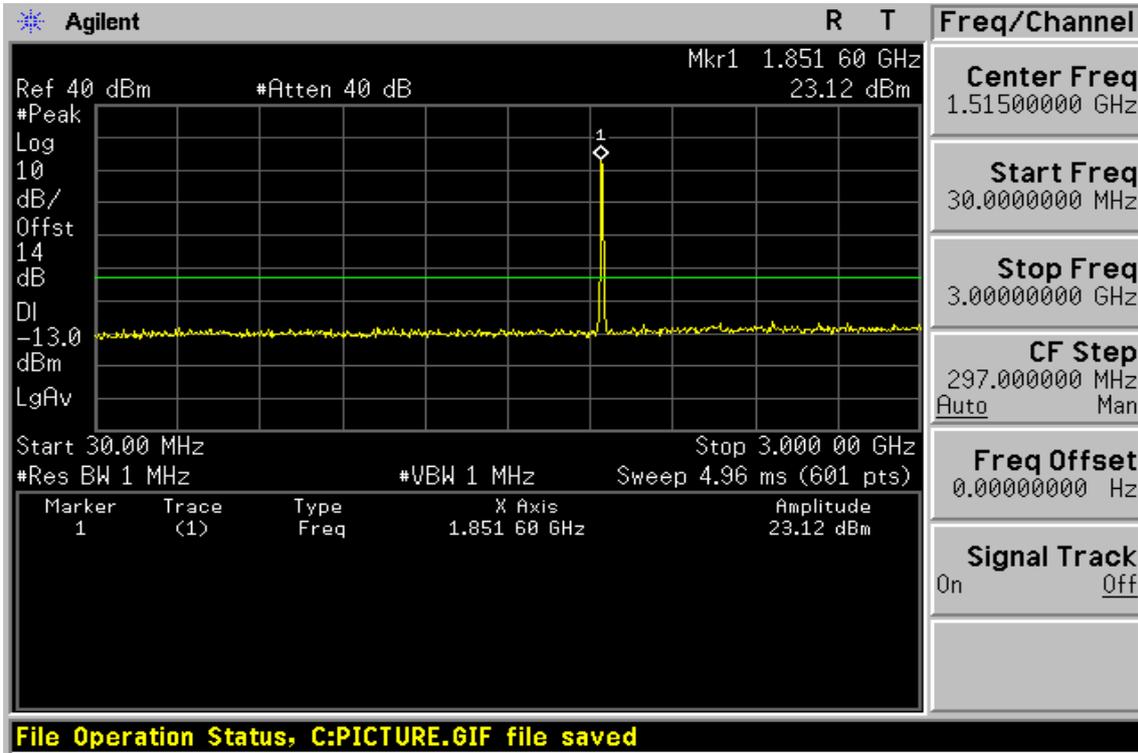
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.997	-20.79	-13.00	7.79
849.003	-20.88	-13.00	7.88

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Figure 9-50: Out of Band emission at antenna terminals – HSUPA II Channel Lowest

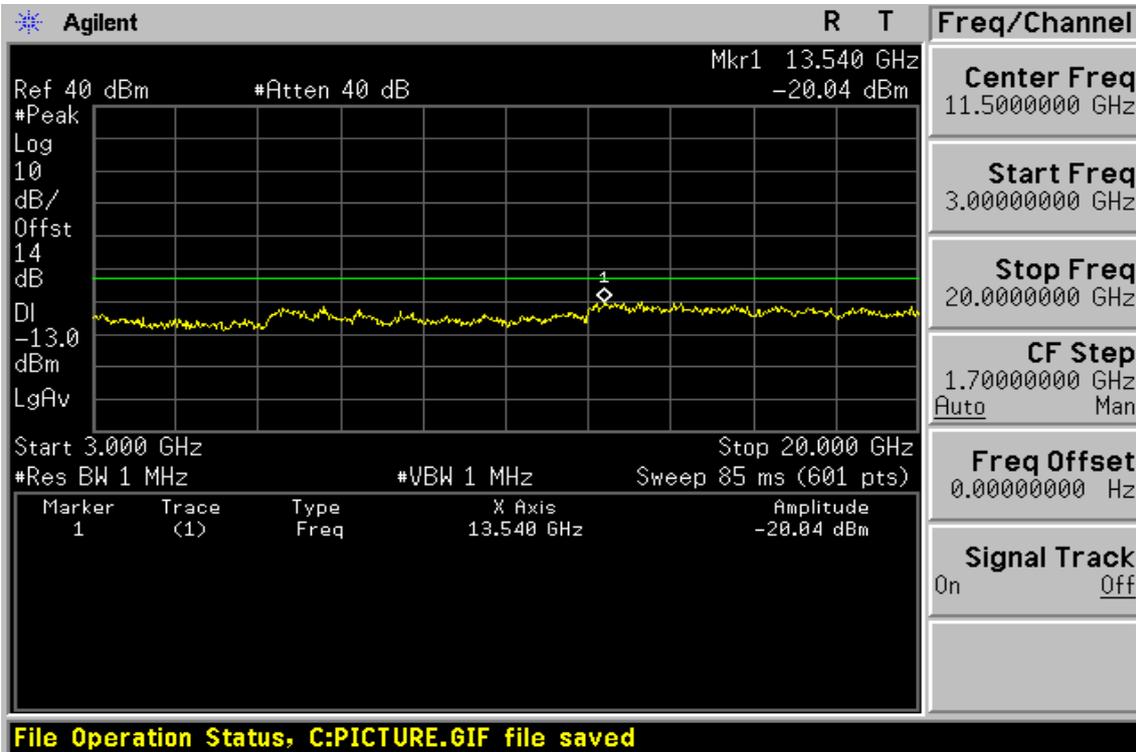
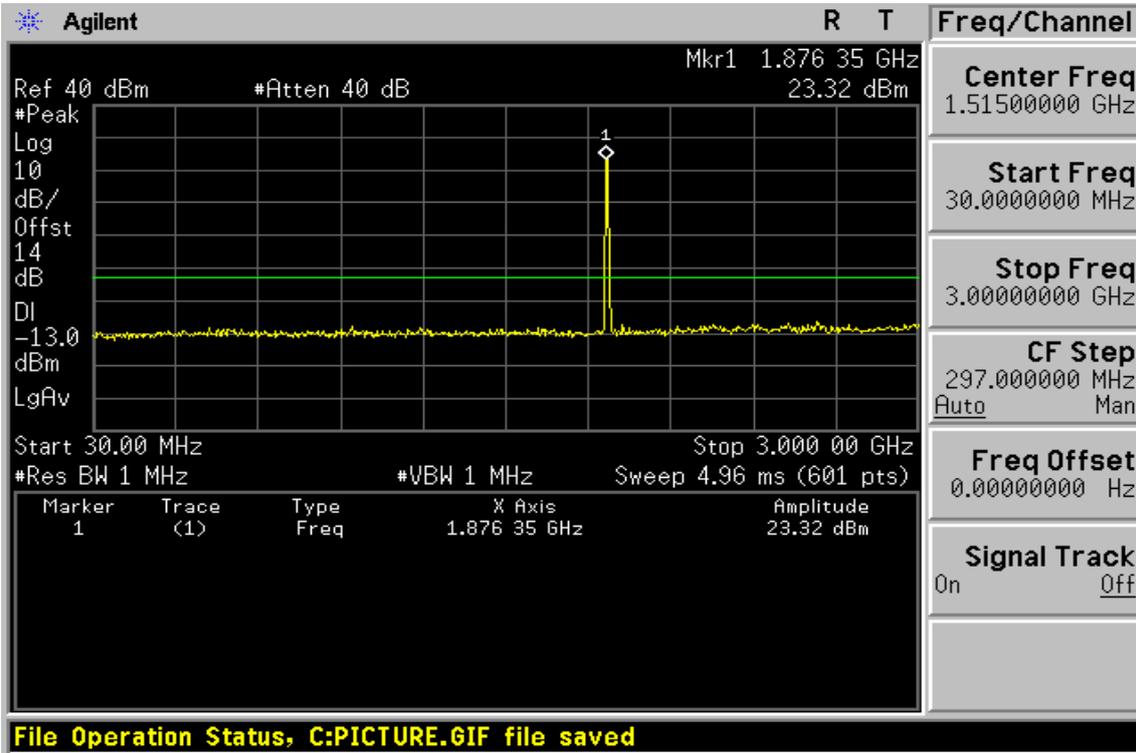


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Figure 9-51: Out of Band emission at antenna terminals – HSUPA II Channel Mid

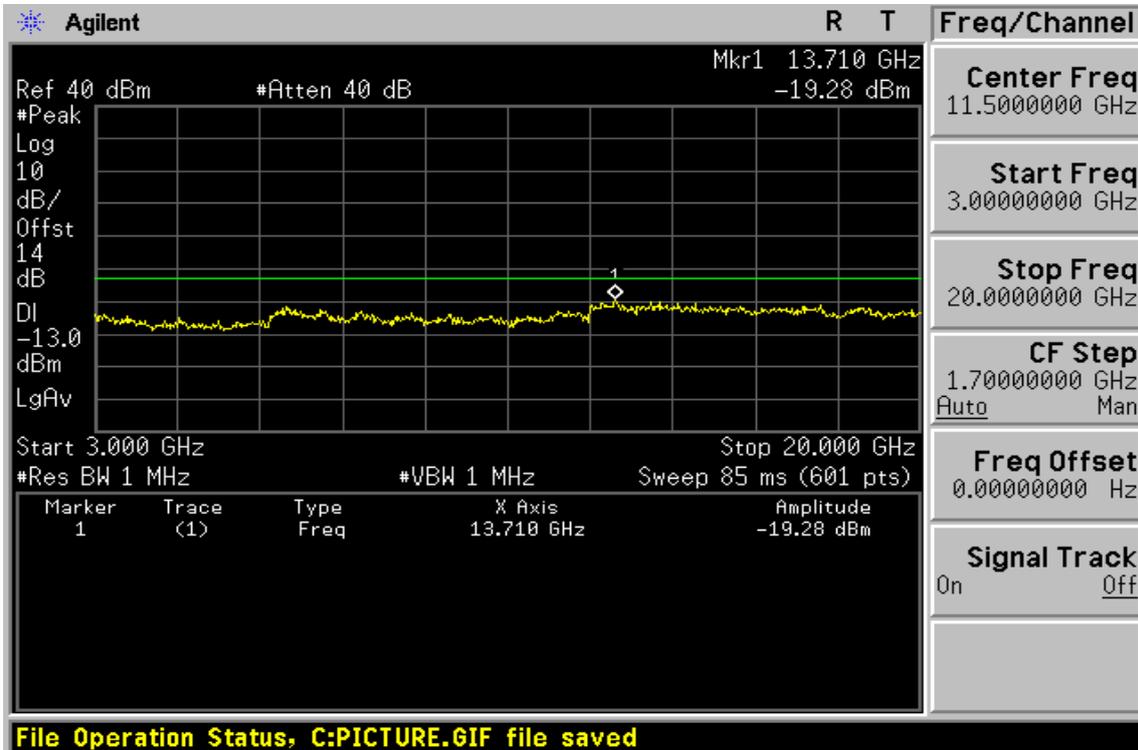
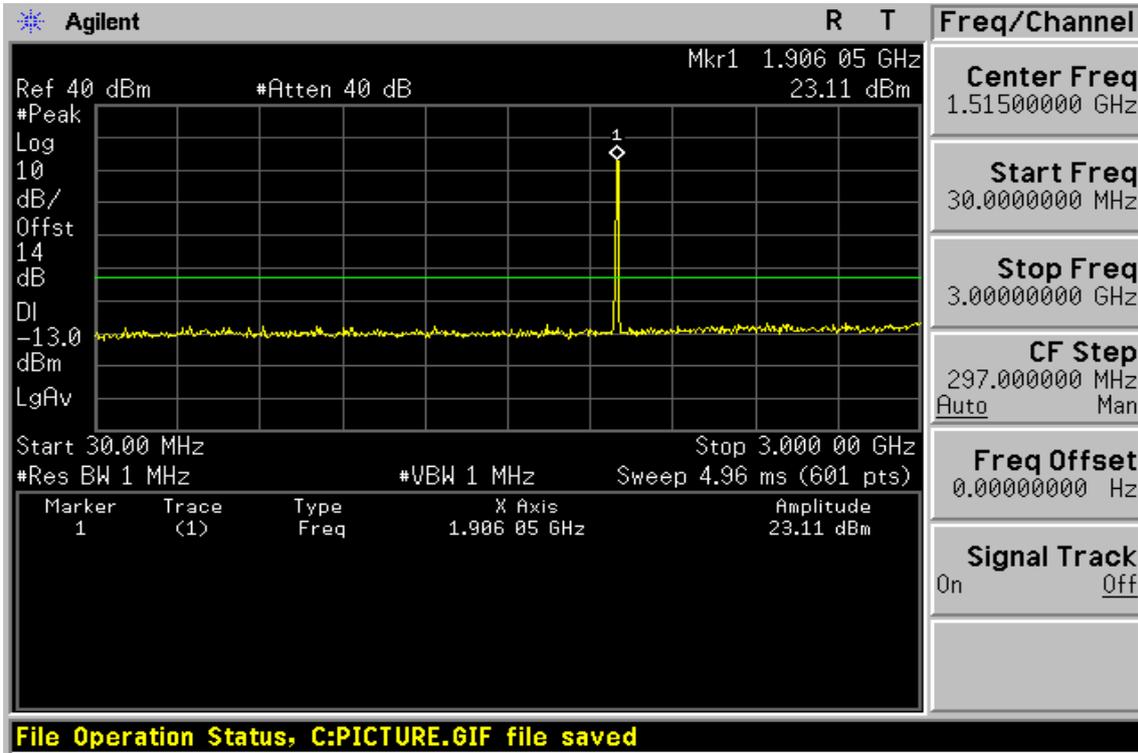


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Figure 9-52: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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Out of Band emission at antenna terminals – HSUPA II

Fundamental Frequency :1852.4 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
14819.20	H	---	-13.00	---
16671.60	H	---	-13.00	---
16912.00	S	-19.74	-13.00	6.74
18524.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13540.00	S	-20.04	-13.00	7.04
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
13710.00	S	-19.28	-13.00	6.28
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-53: Band edge emission at antenna terminals – HSUPA II Channel Lowest

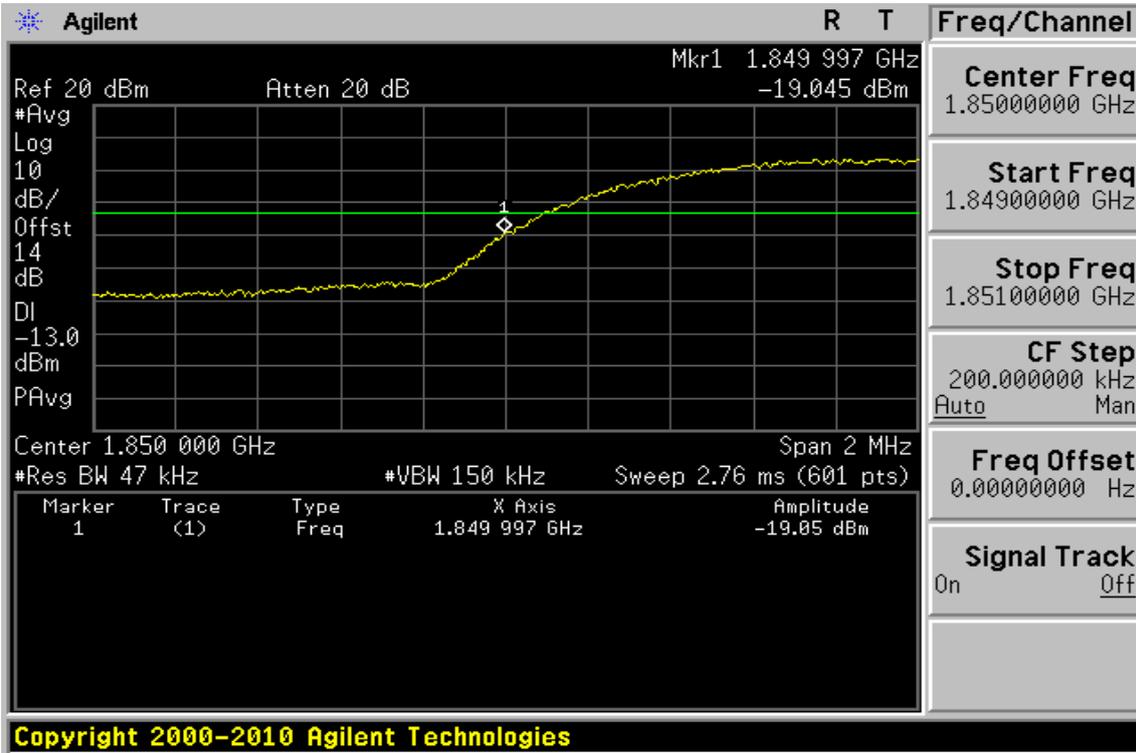
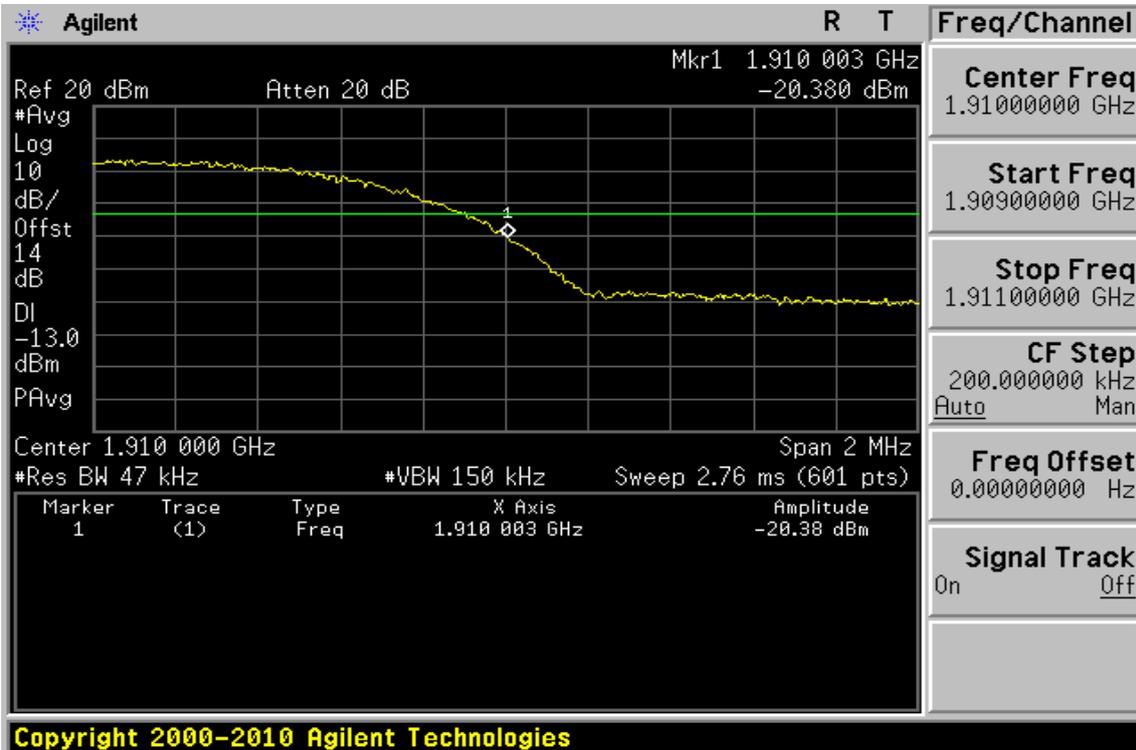


Figure 9-54: Band edge emission at antenna terminals – HSUPA II Channel Highest



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Band edge emission at antenna terminals – HSUPA II Low & High

Test Mode HSUPA II Engineer :Nick

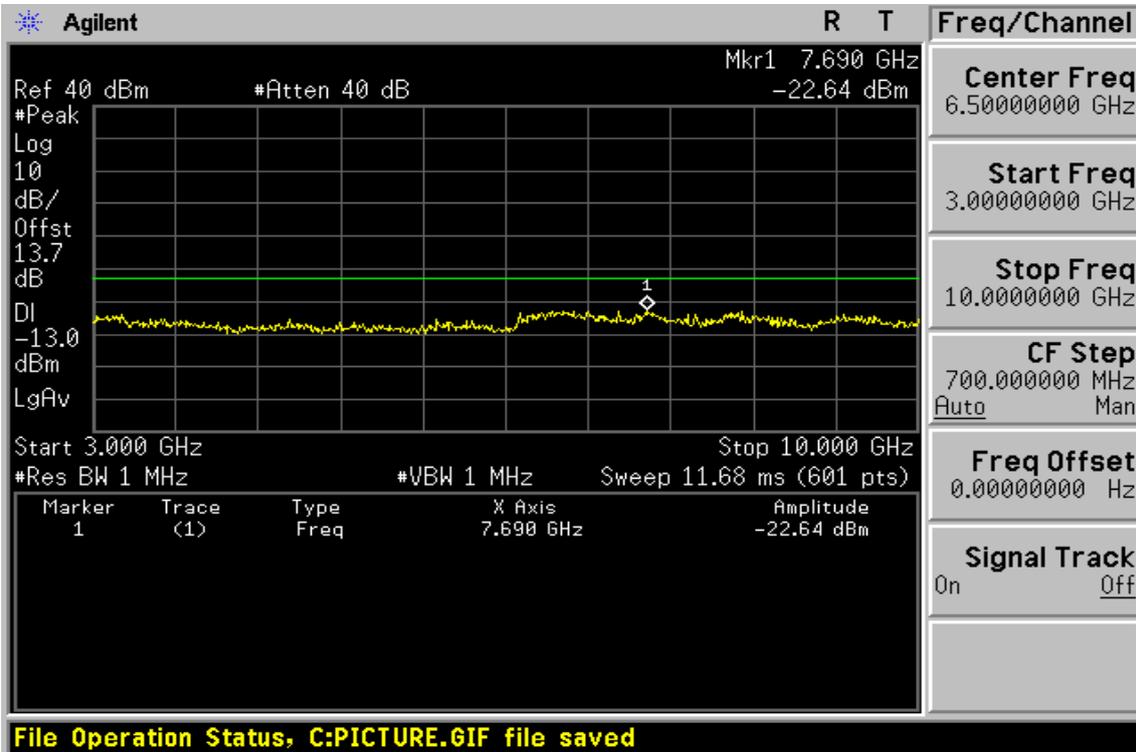
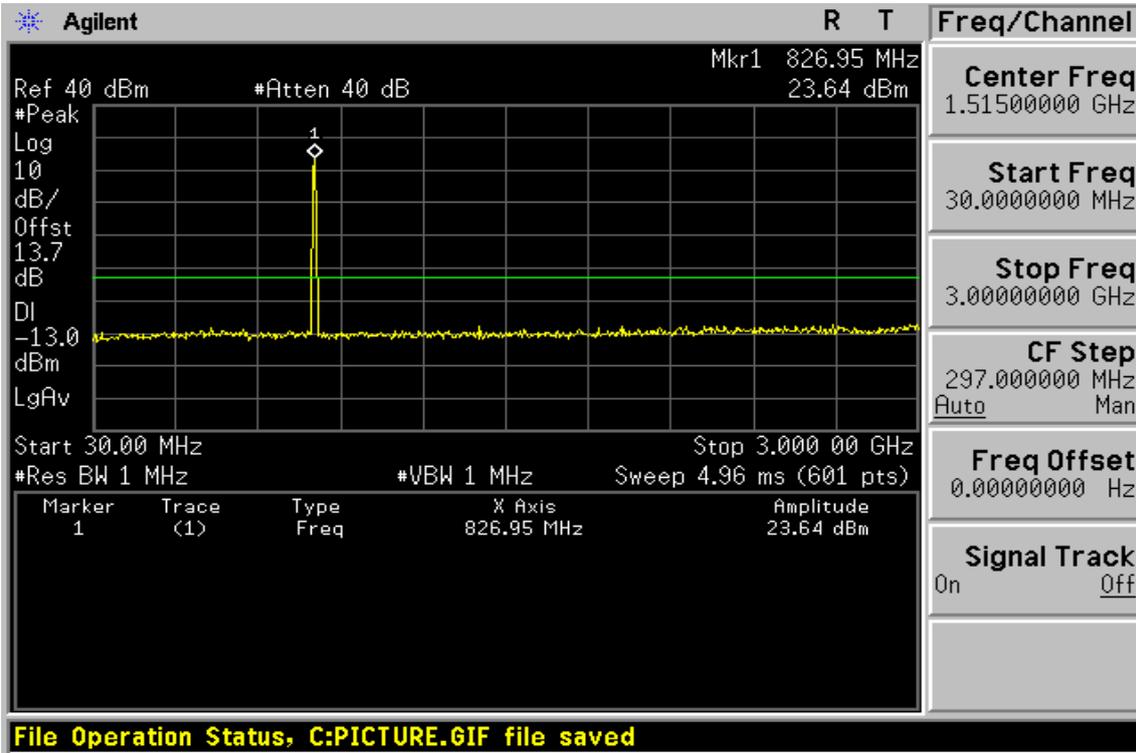
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.997	-19.05	-13.00	6.05
1910.003	-20.38	-13.00	7.38

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Figure 9-55: Out of Band emission at antenna terminals – HSUPA V Channel Lowest

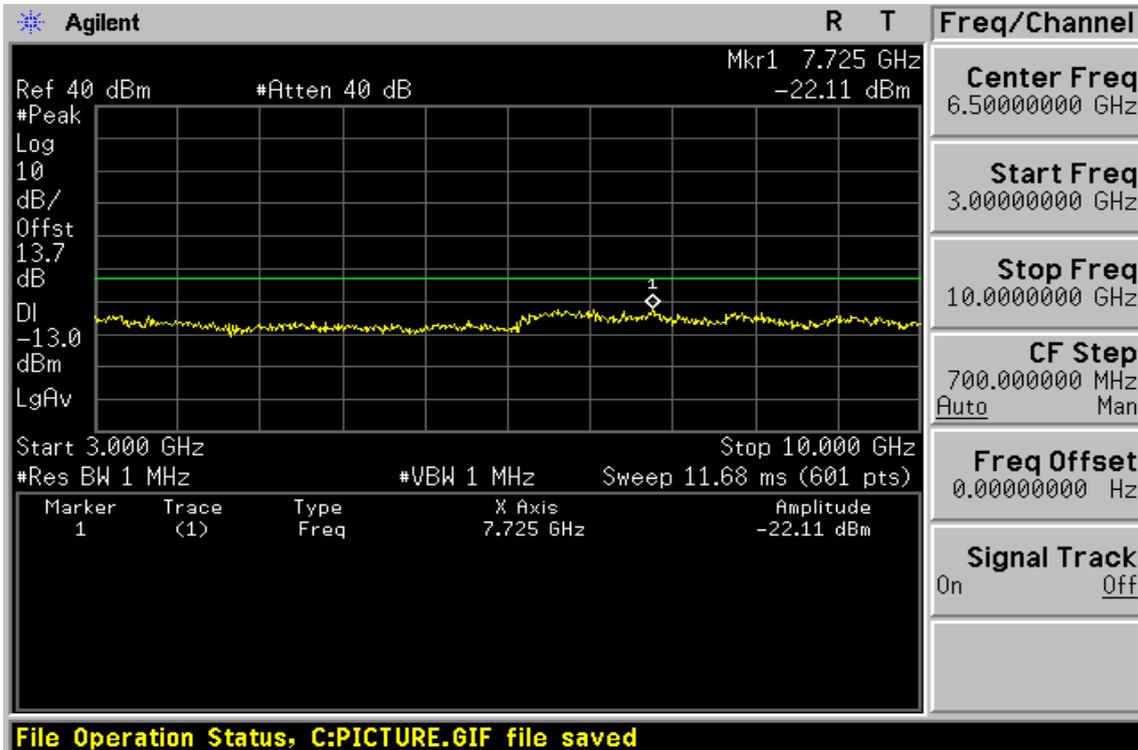
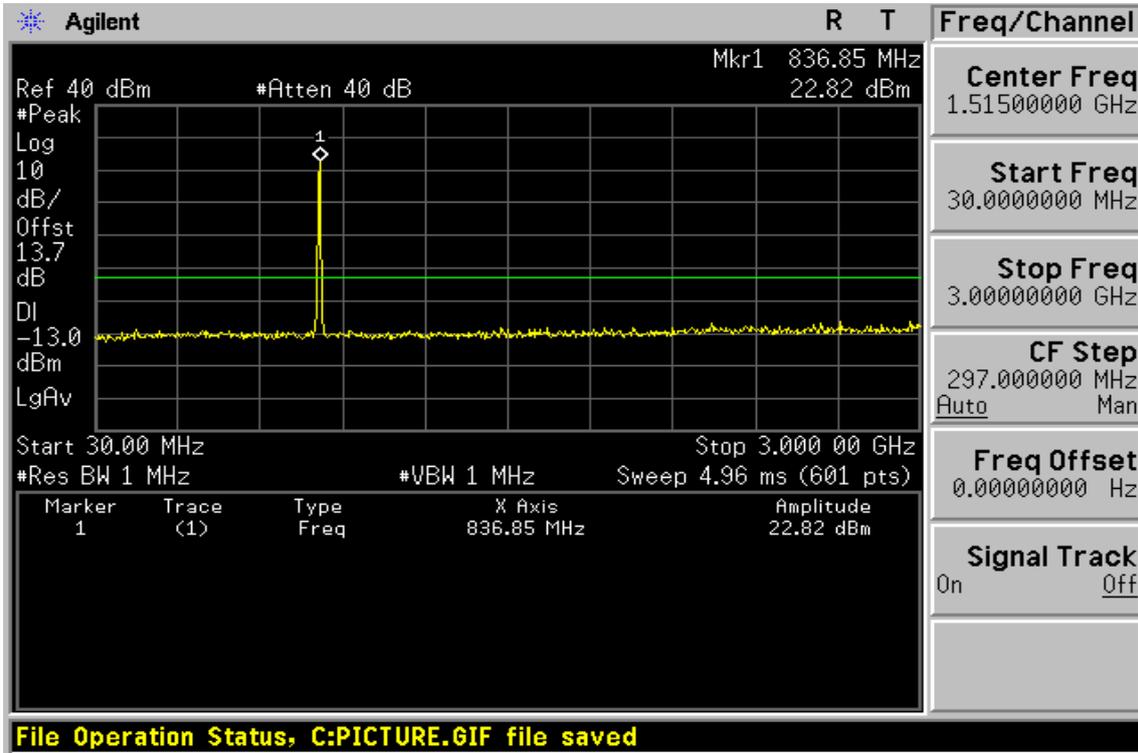


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Figure 9-56: Out of Band emission at antenna terminals – HSUPA V Channel Mid

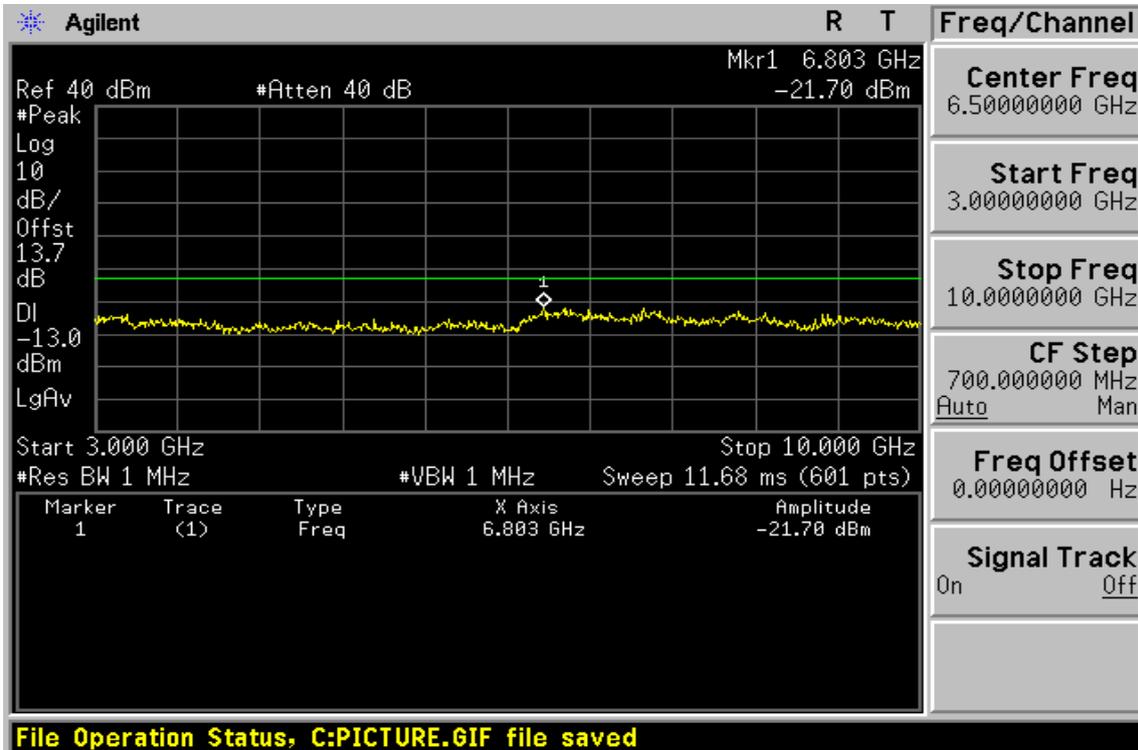
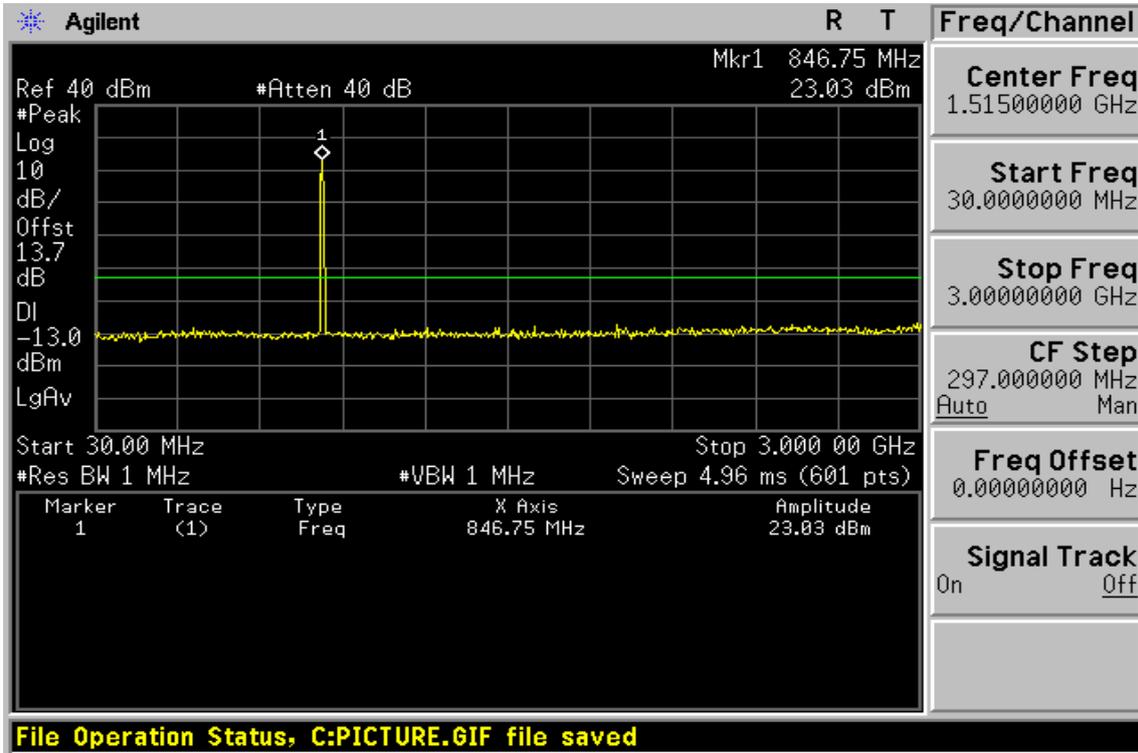


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Figure 9-57: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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Out of Band emission at antenna terminals – HSUPA V

Fundamental Frequency :826.4 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
7437.60	H	---	-13.00	---
7690.00	S	-22.64	-13.00	9.64
8264.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7529.40	H	---	-13.00	---
7725.00	S	-22.11	-13.00	9.11
8366.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
6803.00	S	-21.7	-13.00	8.70
7619.40	H	---	-13.00	---
8466.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Figure 9-58: Band edge emission at antenna terminals – HSUPA V Channel Lowest

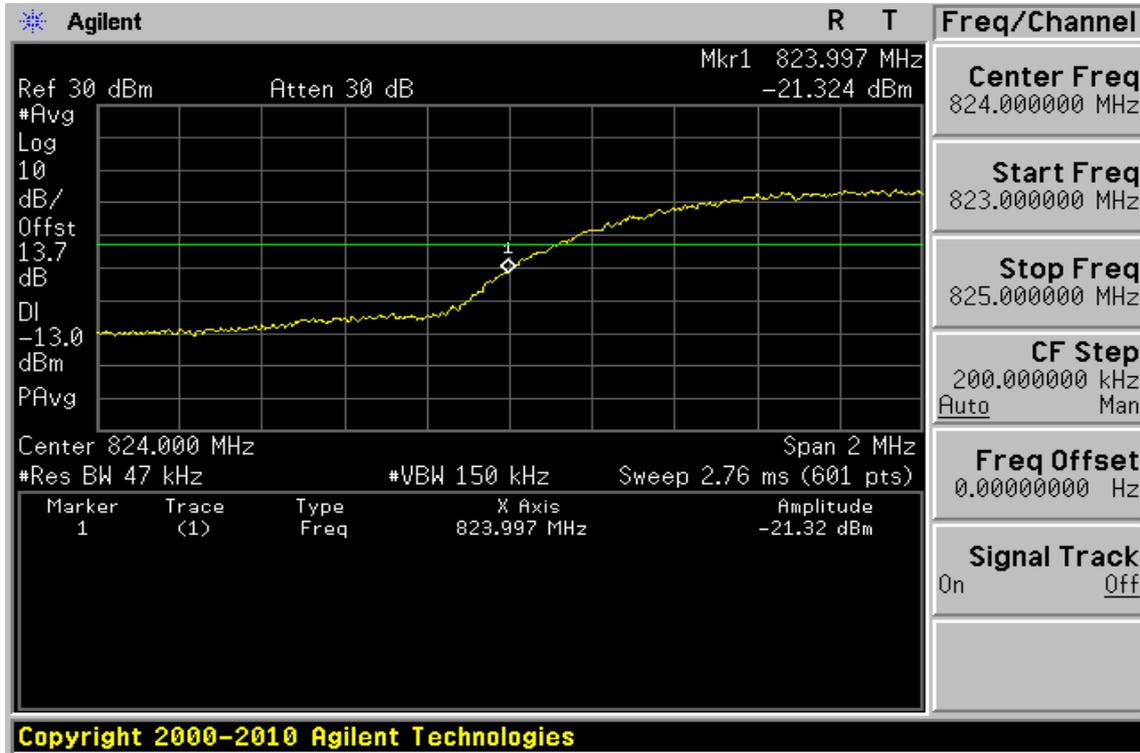
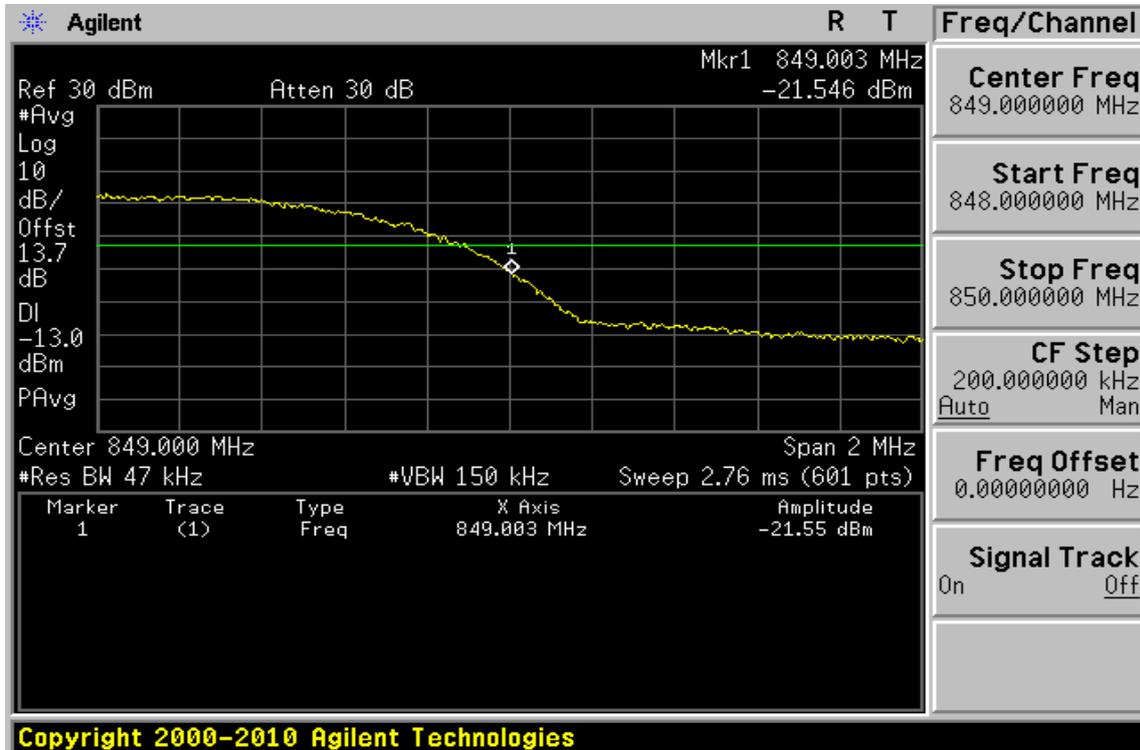


Figure 9-59: Band edge emission at antenna terminals – HSUPA V Channel Highest



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Band edge emission at antenna terminals – HSUPA V Low & High

Test Mode HSUPA V Engineer :Nick

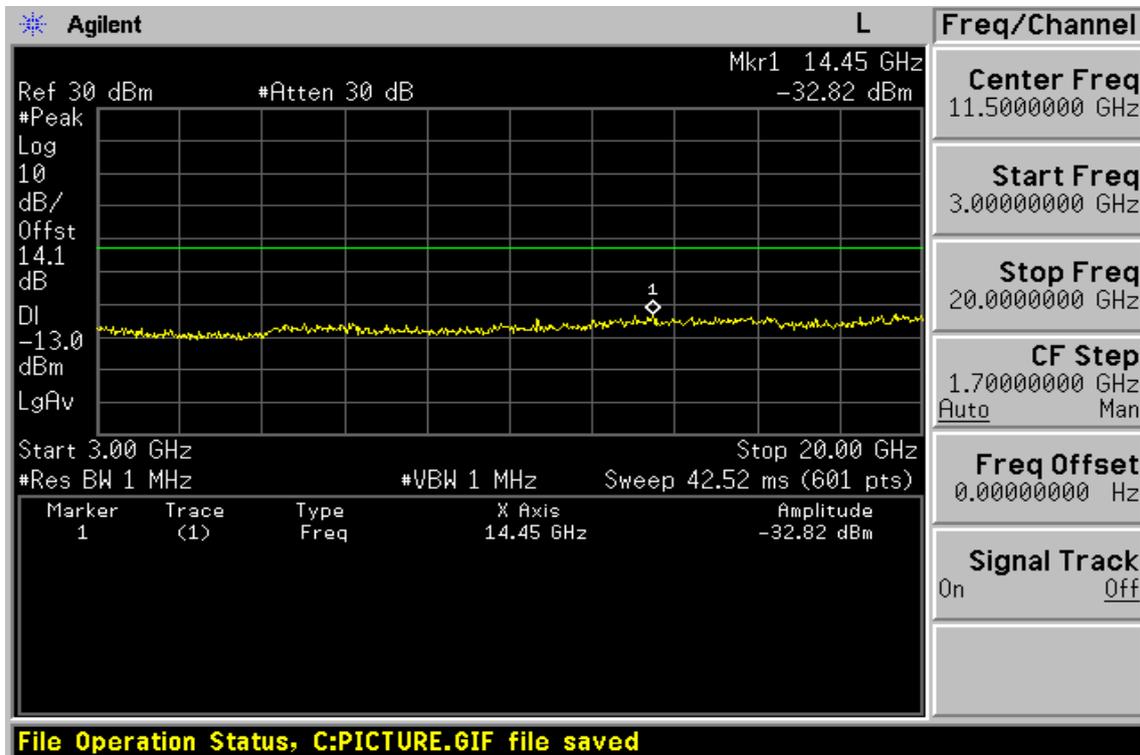
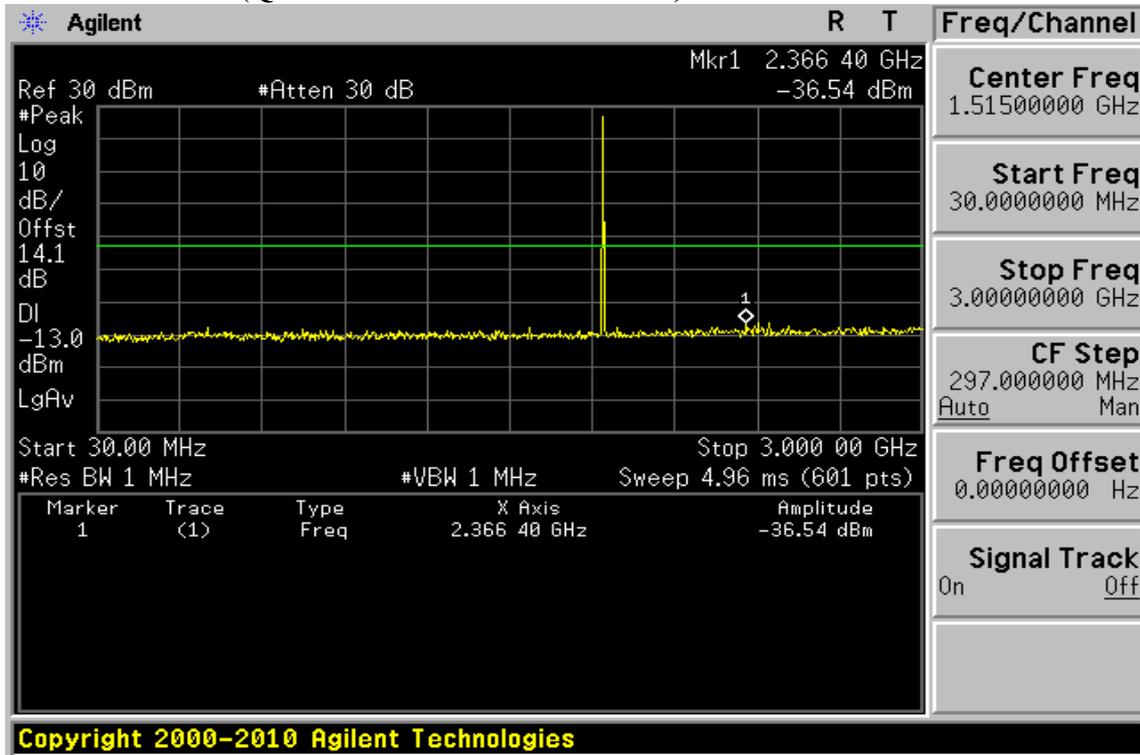
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.997	-21.32	-13.00	8.32
849.003	-21.55	-13.00	8.55

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Figure 9-60: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

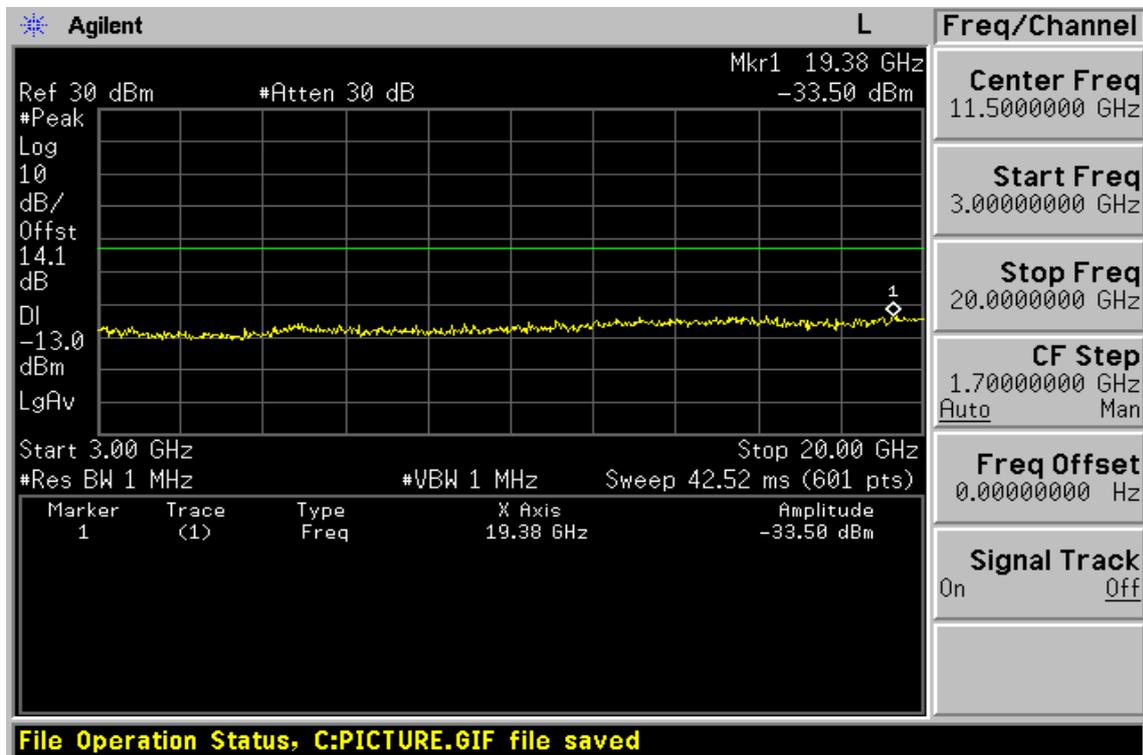
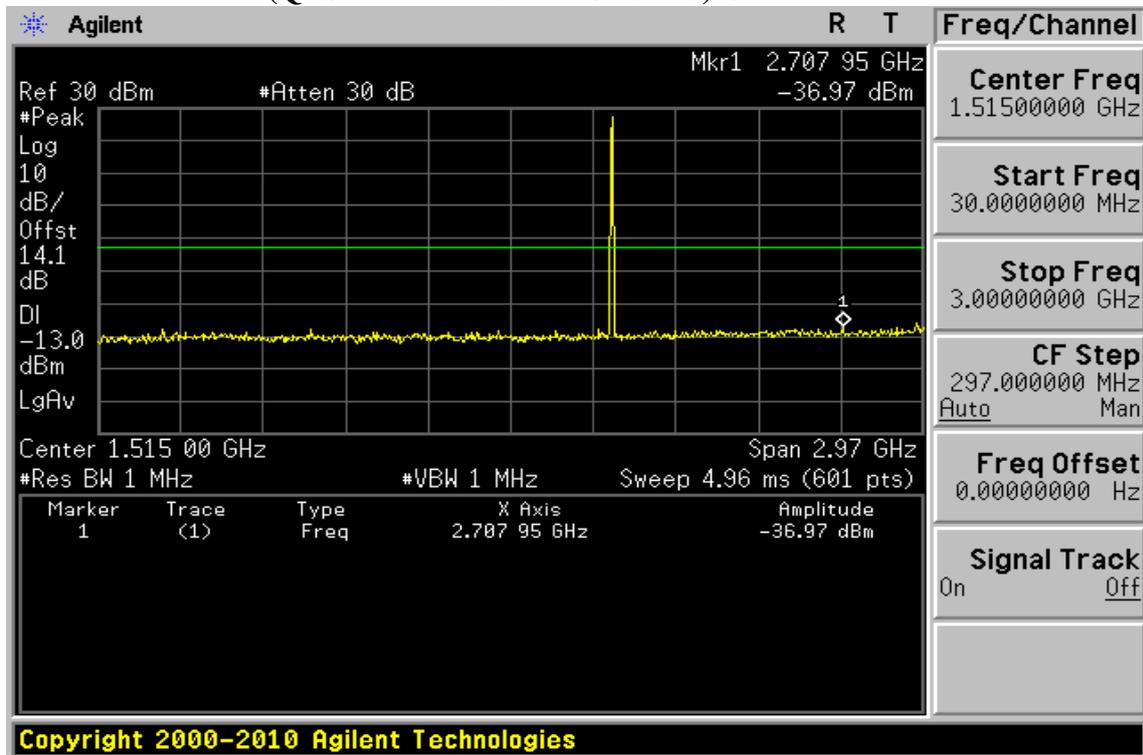


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Figure 9-61: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

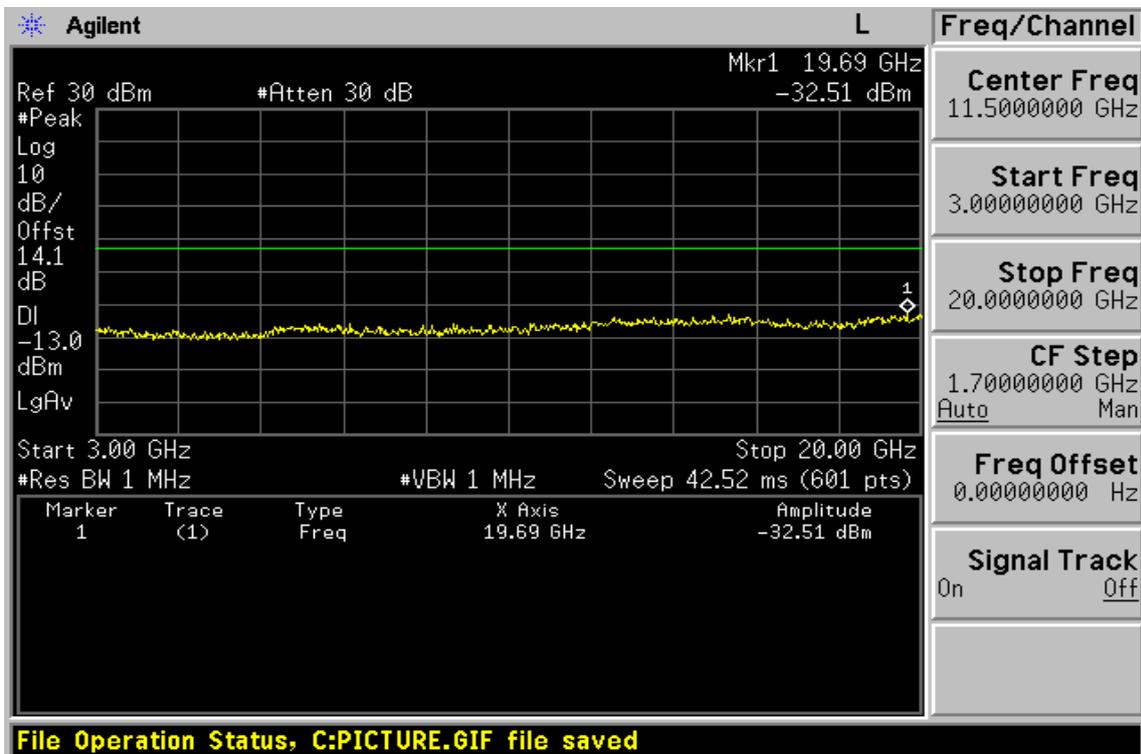
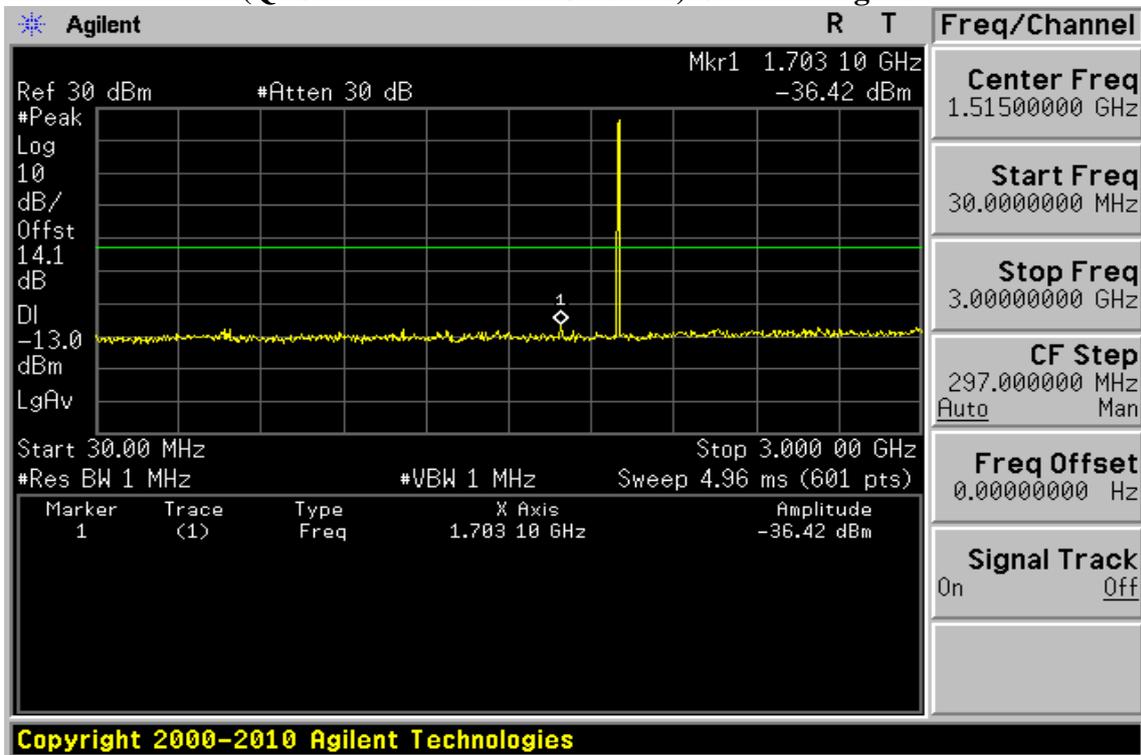


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Figure 9-62: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1850.7 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3701.40	H	---	-13.00	---
5552.10	H	---	-13.00	---
7402.80	H	---	-13.00	---
9253.50	H	---	-13.00	---
11104.20	H	---	-13.00	---
12954.90	H	---	-13.00	---
14450.00	S	-32.82	-13.00	19.82
14805.60	H	---	-13.00	---
16656.30	H	---	-13.00	---
18507.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19380.00	S	-33.5	-13.00	20.50

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1909.3 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3818.60	H	---	-13.00	---
5727.90	H	---	-13.00	---
7637.20	H	---	-13.00	---
9546.50	H	---	-13.00	---
11455.80	H	---	-13.00	---
13365.10	H	---	-13.00	---
15274.40	H	---	-13.00	---
17183.70	H	---	-13.00	---
19093.00	H	---	-13.00	---
19690.00	S	-32.51	-13.00	19.51

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “-” : denotes Spurious Freque

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Figure 9-63: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

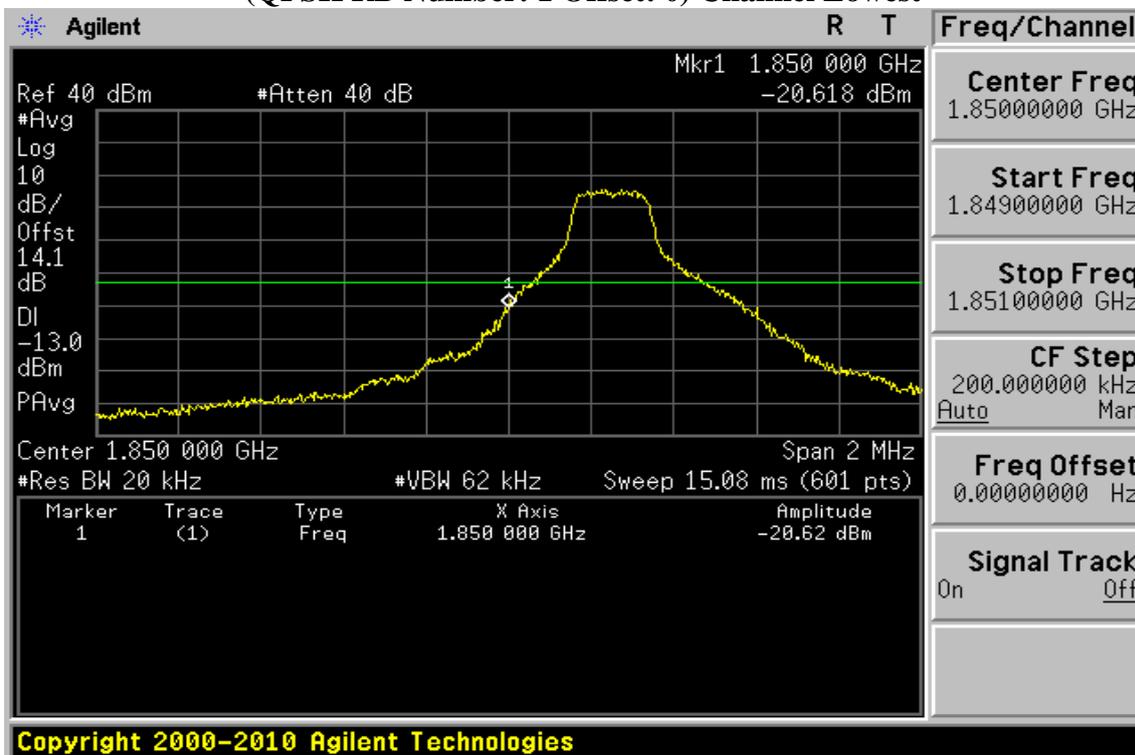
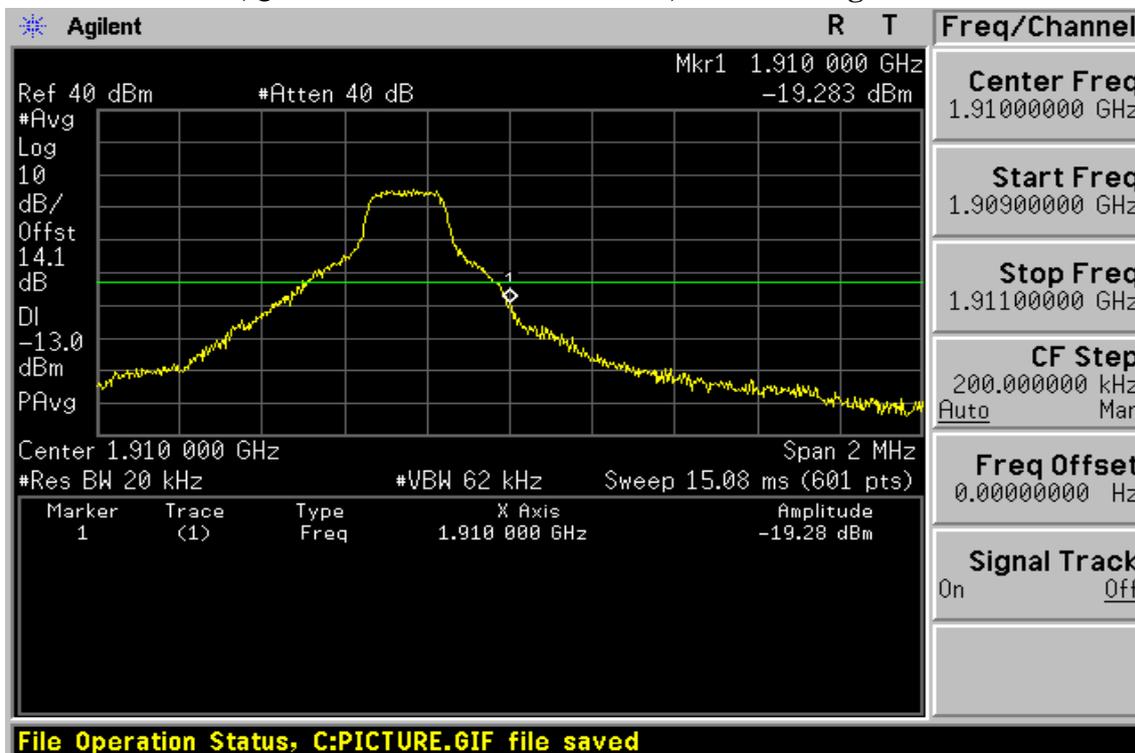


Figure 9-64: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 5) Channel Highest



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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5)

Test Mode 1.4MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-20.62	-13.00	7.62
1910.000	-19.28	-13.00	6.28

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Figure 9-65: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0) Channel Lowest

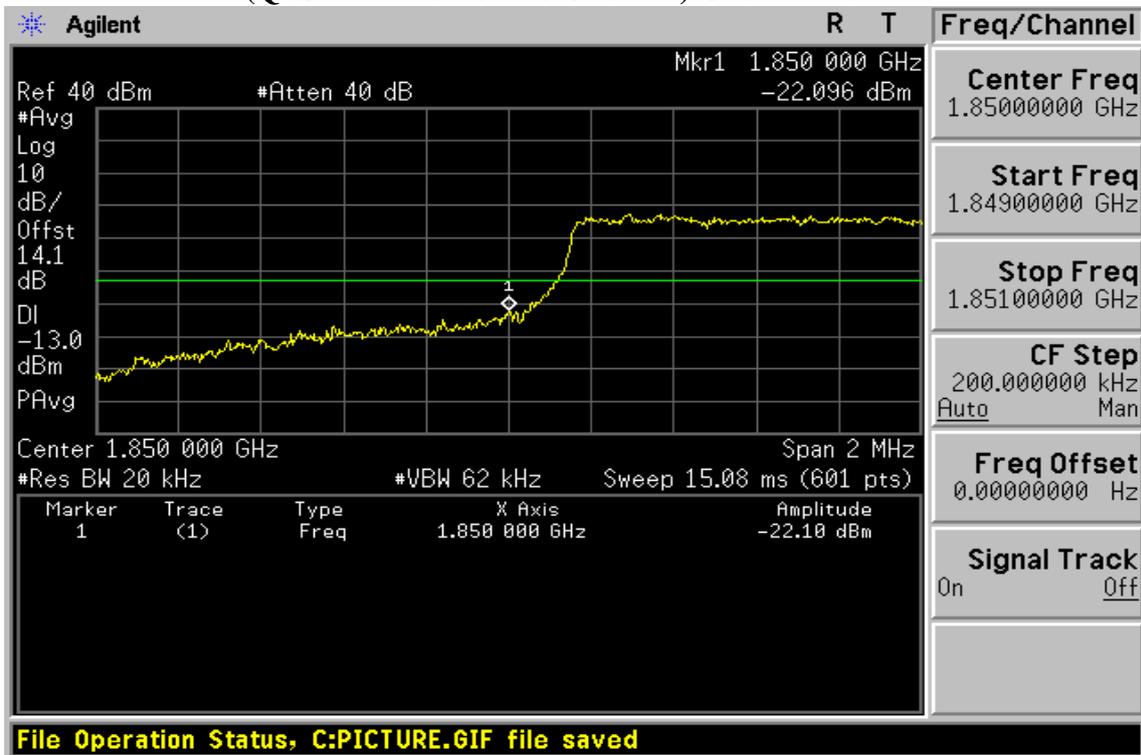
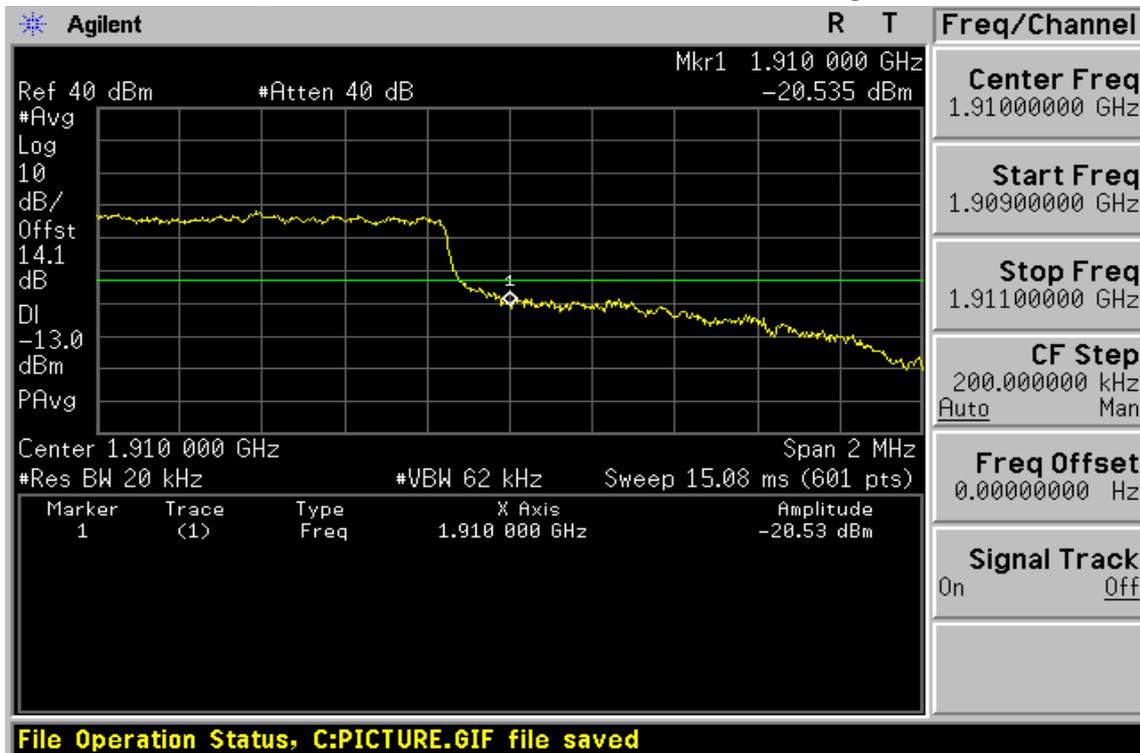


Figure 9-66: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2

(QPSK RB Number: 6 Offset: 0)

Test Mode 1.4MHz BW LTE-Band 2 Engineer :Nick

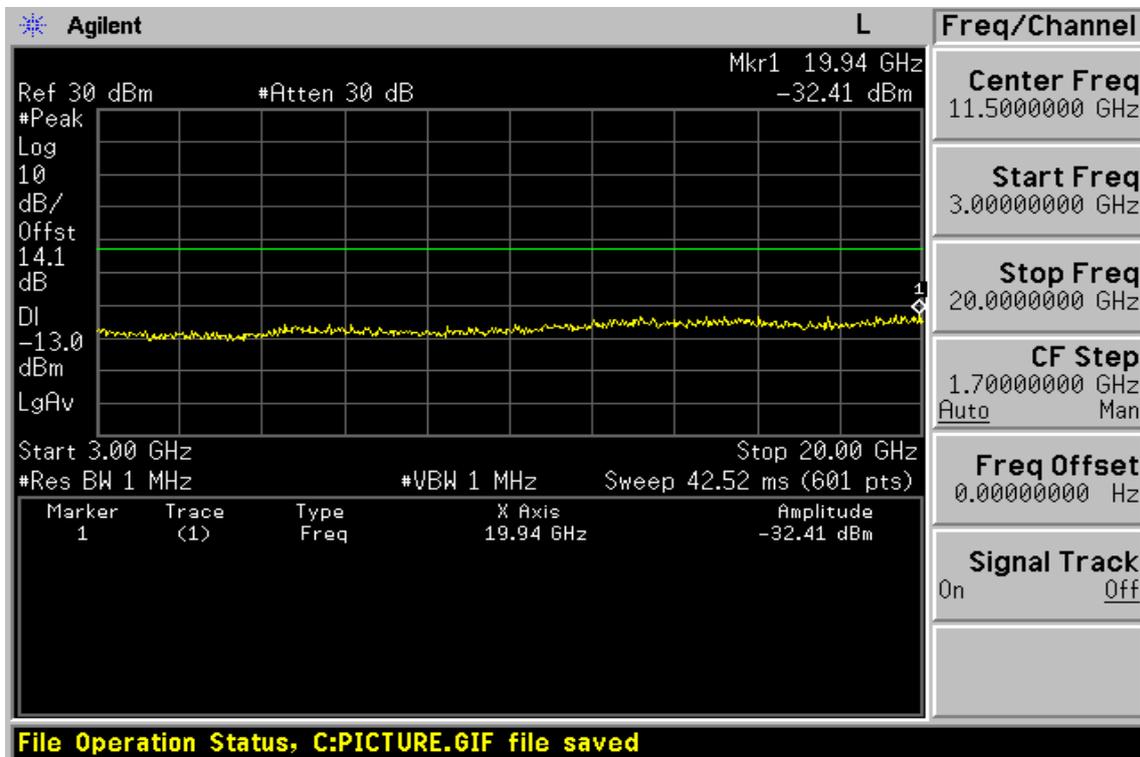
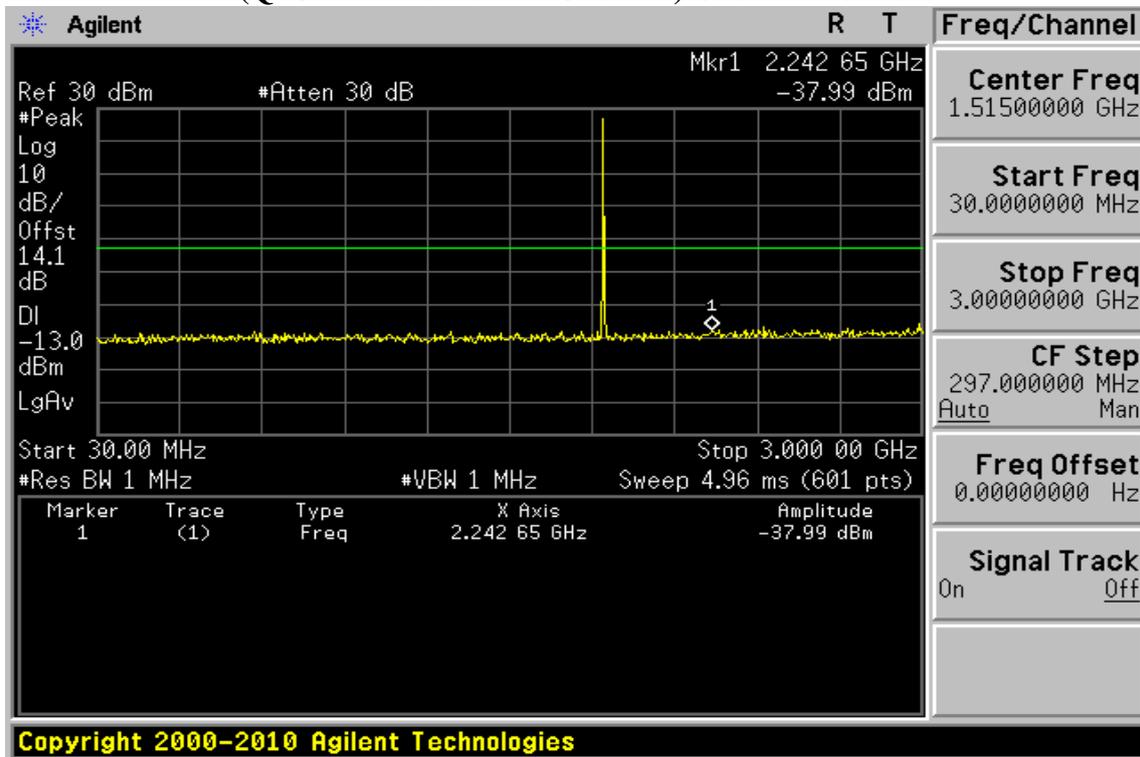
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-22.1	-13.00	9.10
1910.000	-20.53	-13.00	7.53

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Figure 9-67: Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

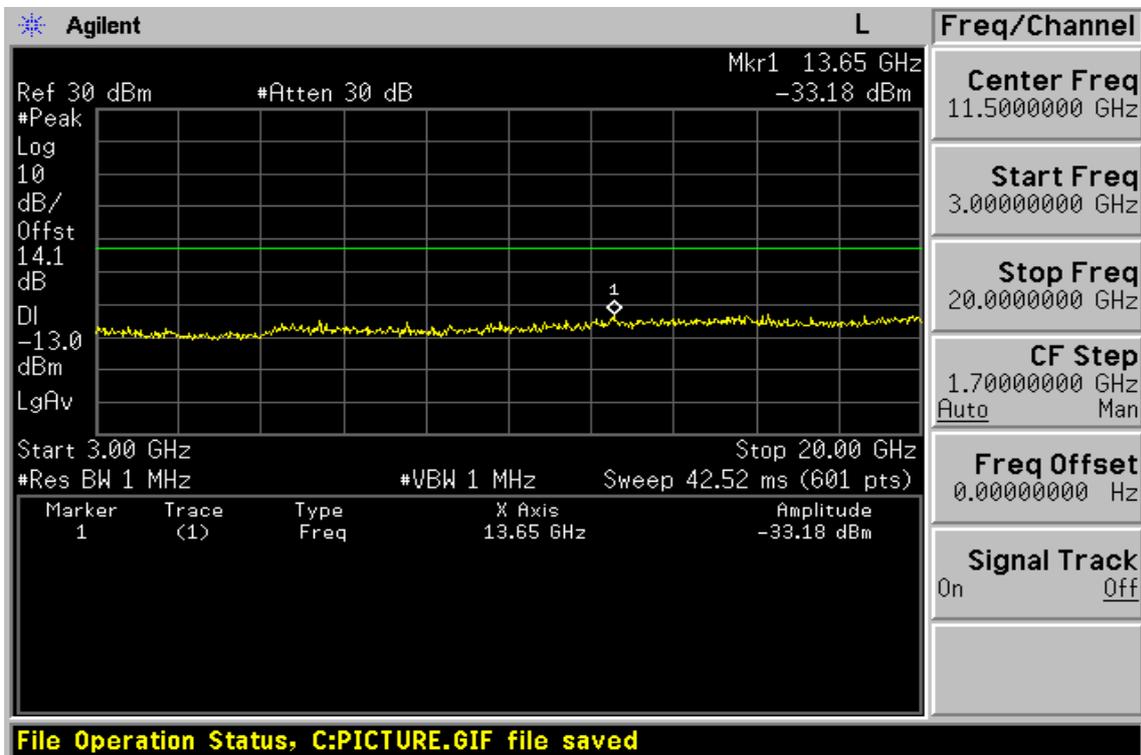
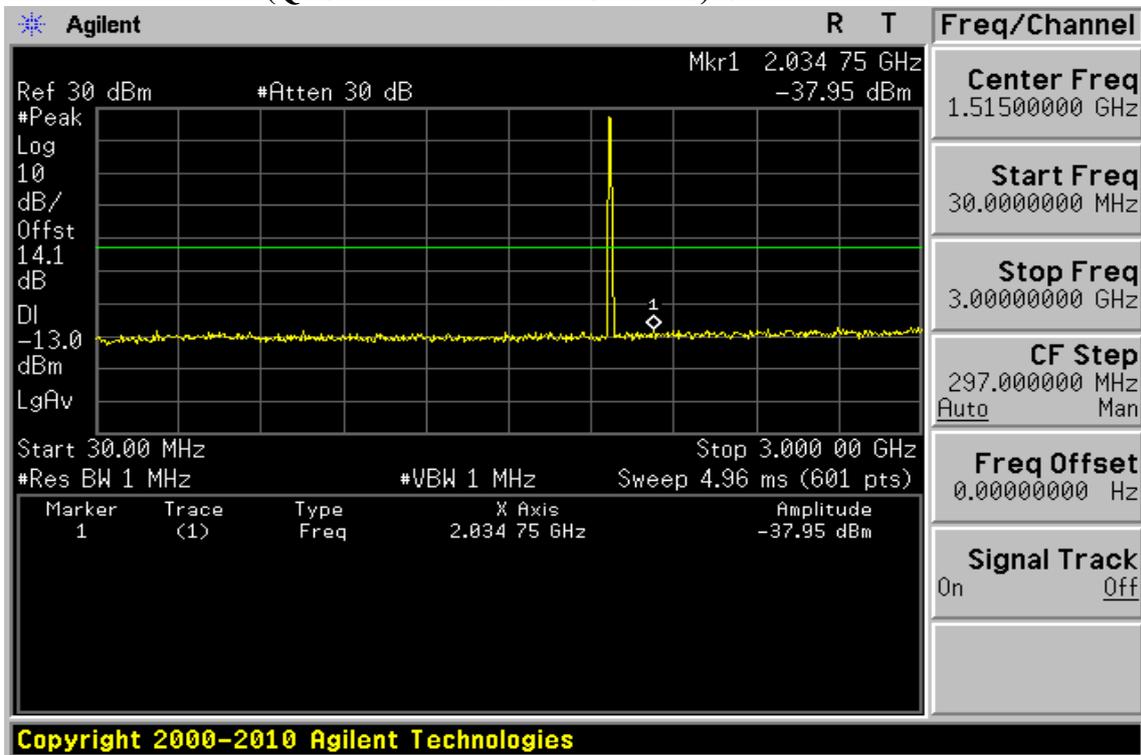


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Figure 9-68: Out of Band emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

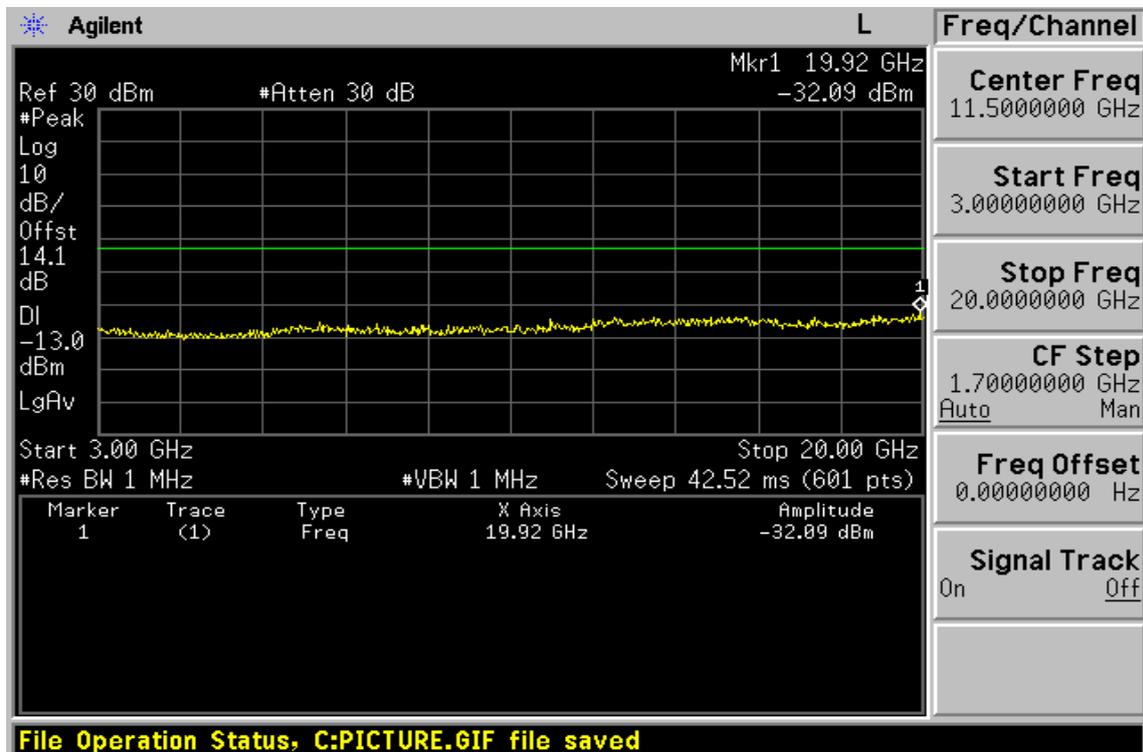
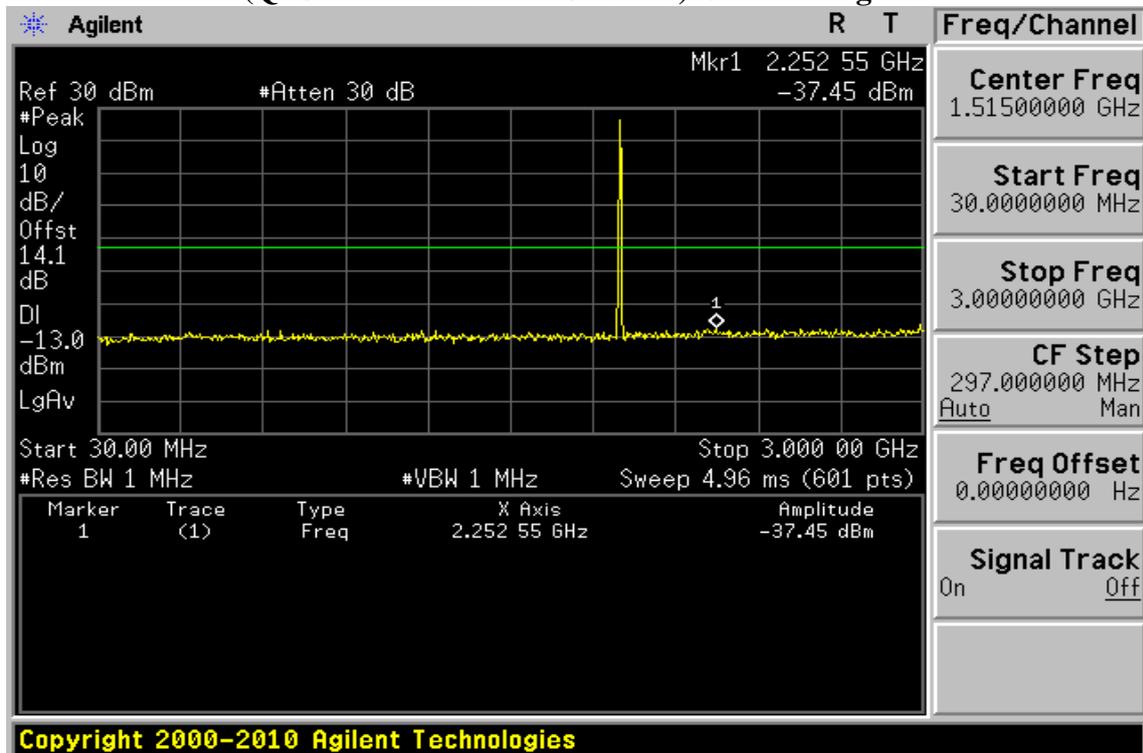


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Figure 9-69: Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –3MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1851.5 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3703.00	H	---	-13.00	---
5554.50	H	---	-13.00	---
7406.00	H	---	-13.00	---
9257.50	H	---	-13.00	---
11109.00	H	---	-13.00	---
12960.50	H	---	-13.00	---
14812.00	H	---	-13.00	---
16663.50	H	---	-13.00	---
18515.00	H	---	-13.00	---
19940.00	S	-32.41	-13.00	19.41

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13650.00	S	-33.18	-13.00	20.18
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1908.5 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3817.00	H	---	-13.00	---
5725.50	H	---	-13.00	---
7634.00	H	---	-13.00	---
9542.50	H	---	-13.00	---
11451.00	H	---	-13.00	---
13359.50	H	---	-13.00	---
15268.00	H	---	-13.00	---
17176.50	H	---	-13.00	---
19085.00	H	---	-13.00	---
19920.00	S	-32.09	-13.00	19.09

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “” : denotes Spurious Freque

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Figure 9-70: Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

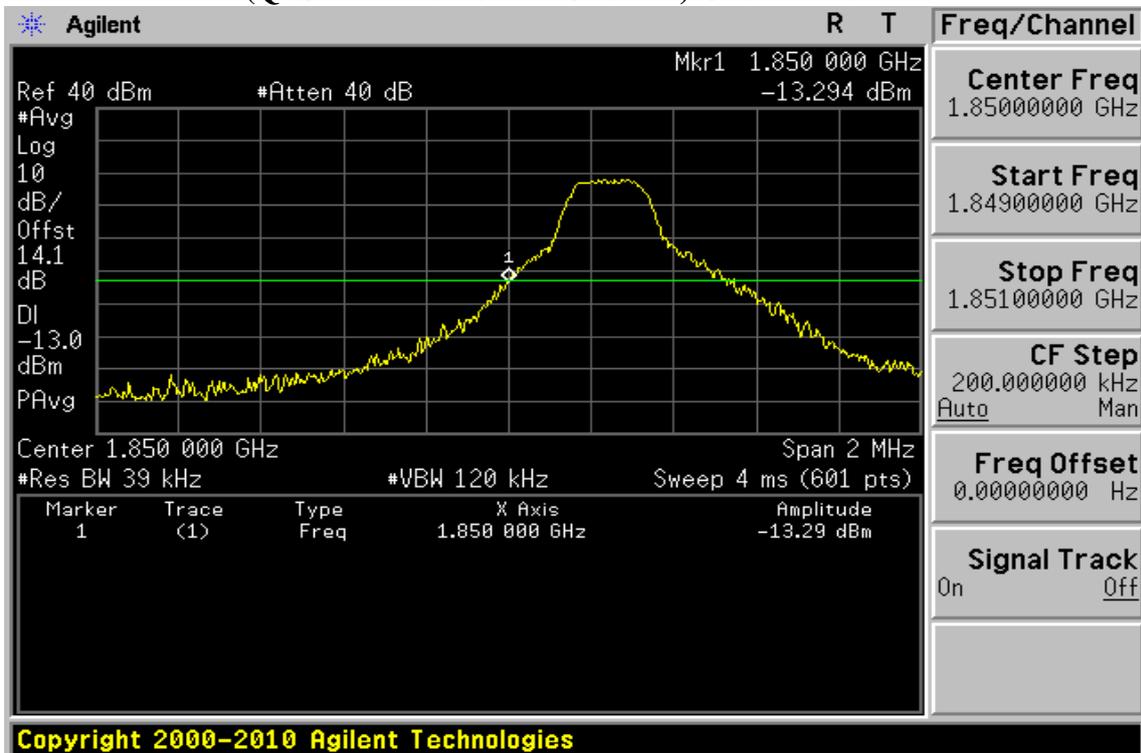
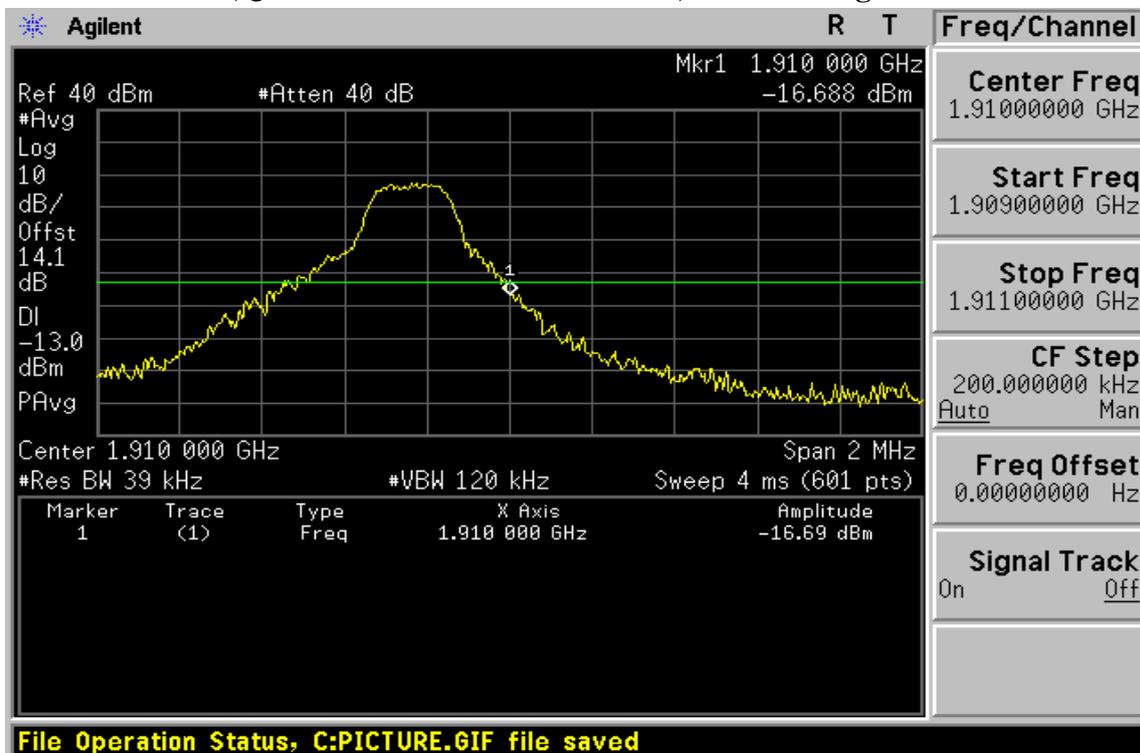


Figure 9-71: Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 14) Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14)

Test Mode 3MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-13.29	-13.00	0.29
1910.000	-16.69	-13.00	3.69

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Figure 9-72: Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 15 Offset: 0) Channel Lowest

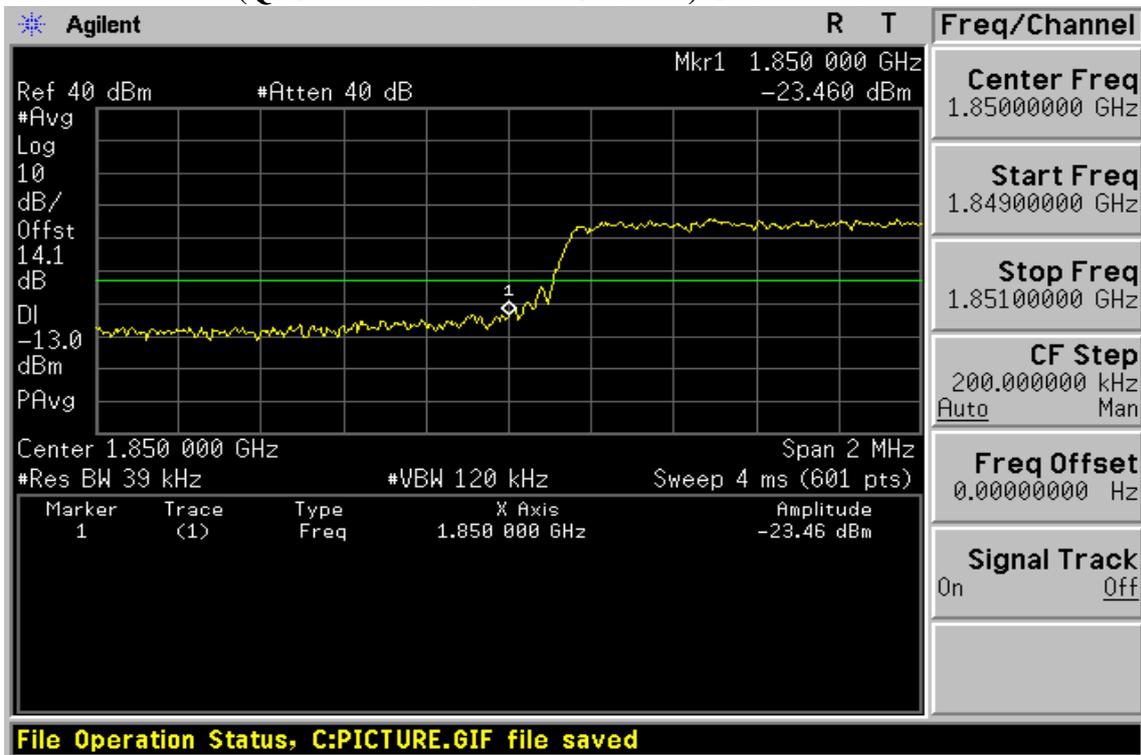
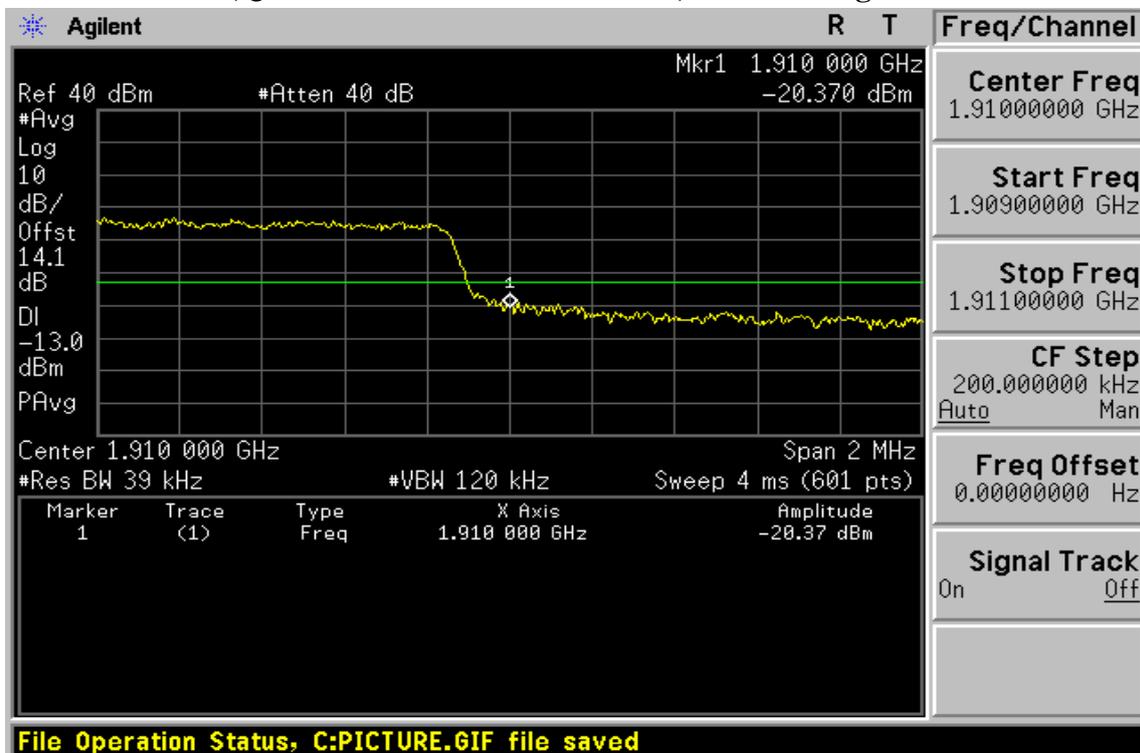


Figure 9-73: Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 15 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 2

(QPSK RB Number: 15 Offset: 0)

Test Mode 3MHz BW LTE-Band 2 Engineer :Nick

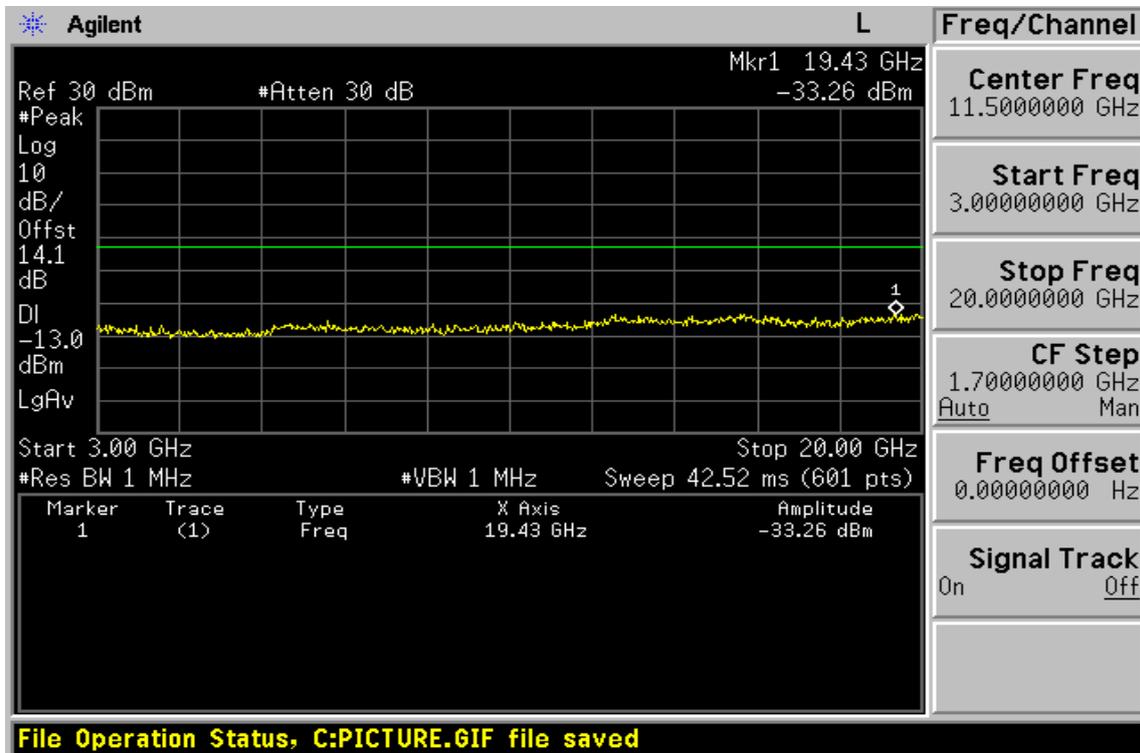
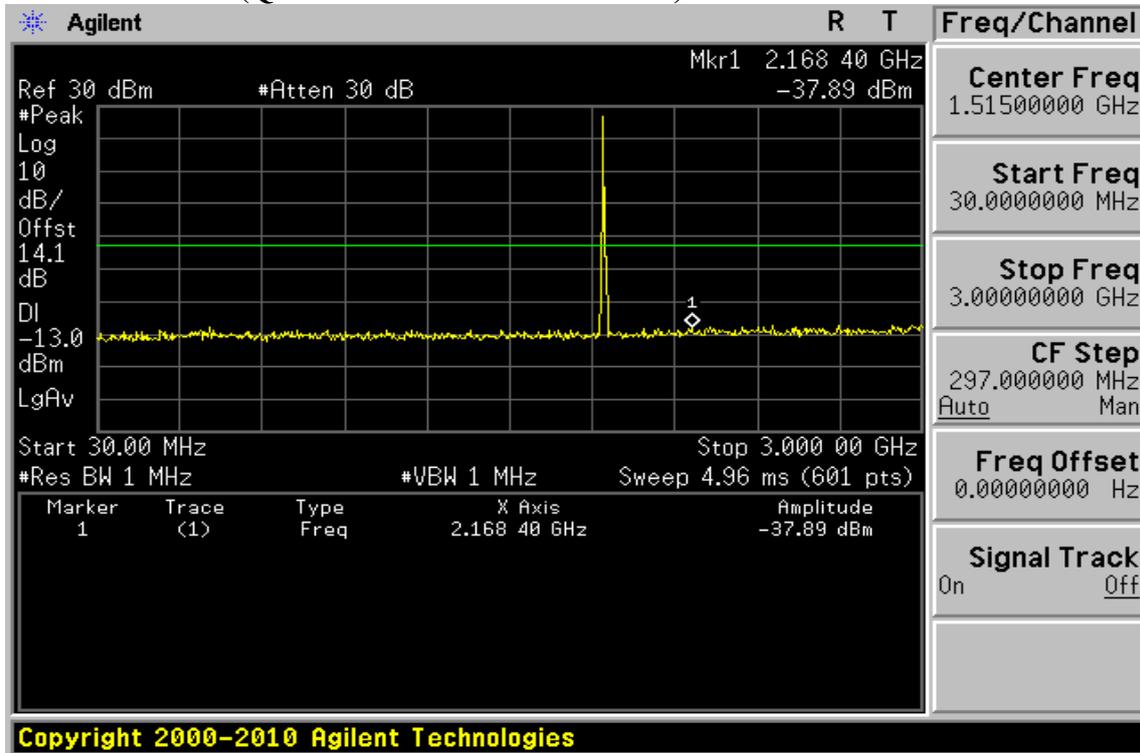
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-23.46	-13.00	10.46
1910.000	-20.37	-13.00	7.37

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Figure 9-74: Out of Band emission at antenna terminals–5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

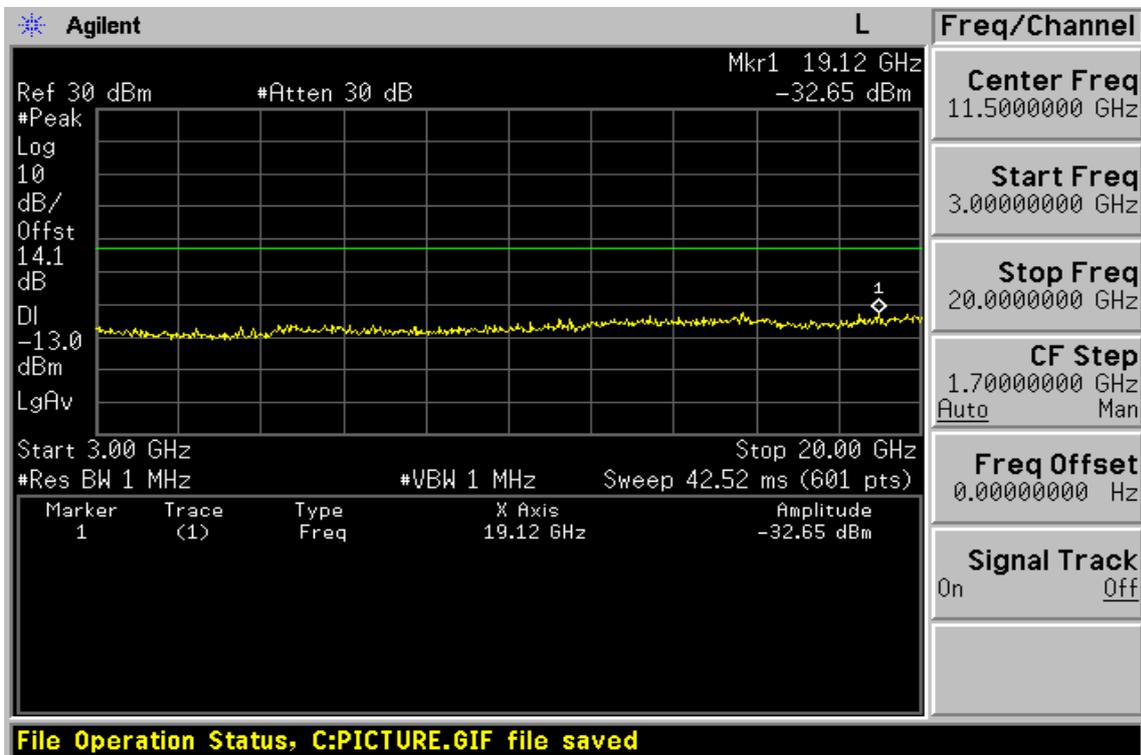
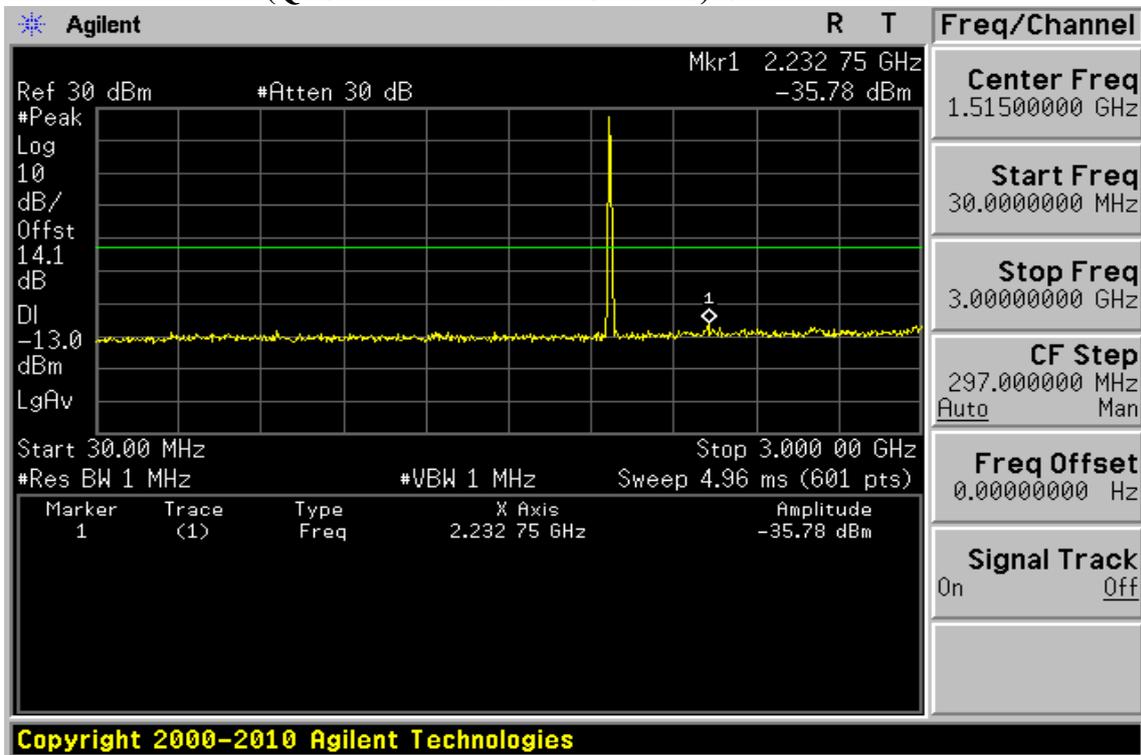


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Figure 9-75: Out of Band emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

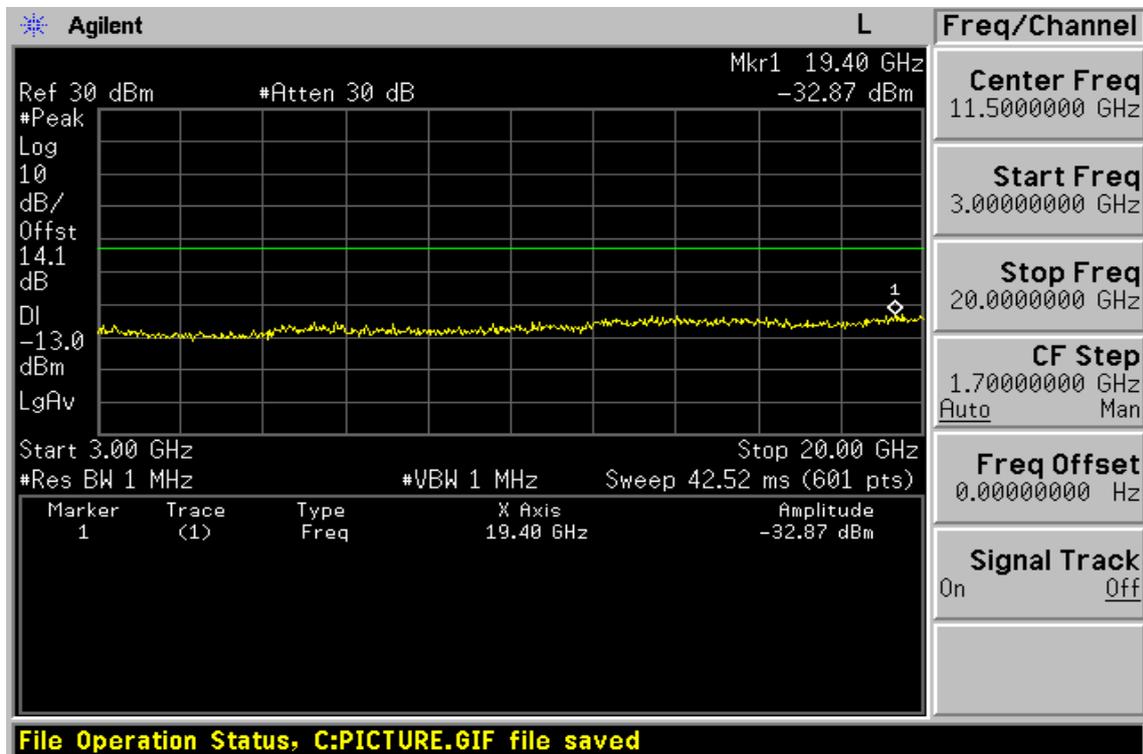
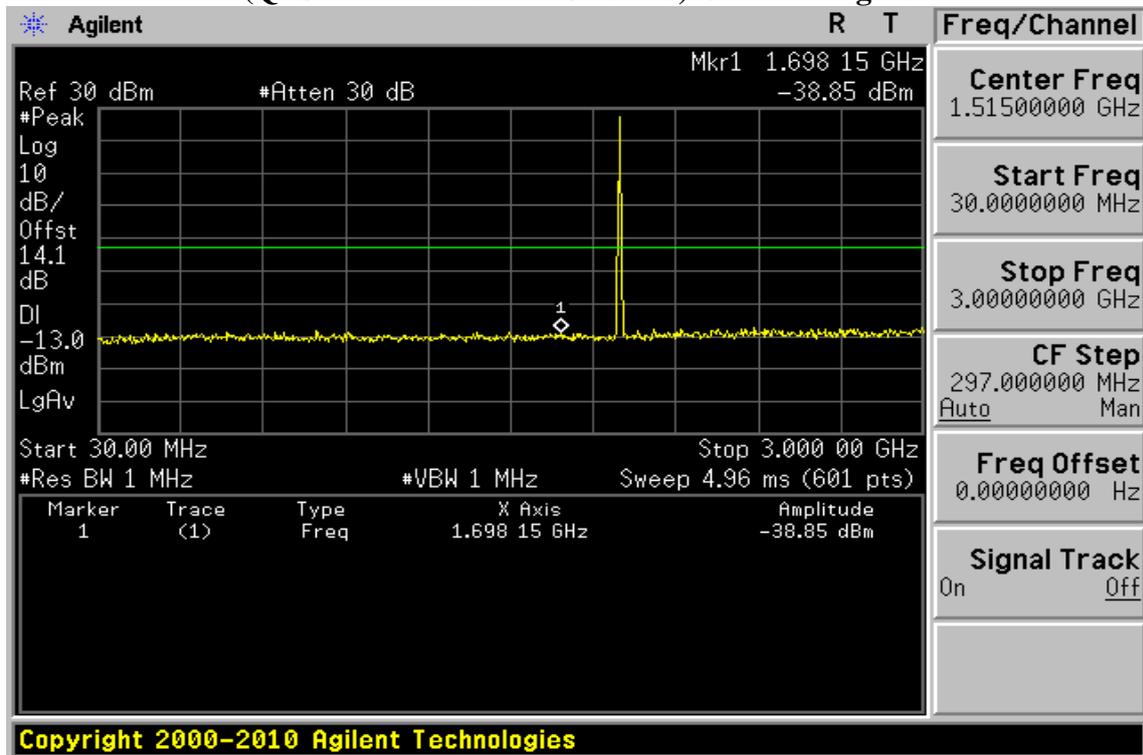


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Figure 9-76: Out of Band emission at antenna terminals–5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –5MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1852.5 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3705.00	H	---	-13.00	---
5557.50	H	---	-13.00	---
7410.00	H	---	-13.00	---
9262.50	H	---	-13.00	---
11115.00	H	---	-13.00	---
12967.50	H	---	-13.00	---
14820.00	H	---	-13.00	---
16672.50	H	---	-13.00	---
18525.00	H	---	-13.00	---
19430.00	S	-33.26	-13.00	20.26

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19120.00	S	-32.65	-13.00	19.65

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1907.5 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.00	H	---	-13.00	---
5722.50	H	---	-13.00	---
7630.00	H	---	-13.00	---
9537.50	H	---	-13.00	---
11445.00	H	---	-13.00	---
13352.50	H	---	-13.00	---
15260.00	H	---	-13.00	---
17167.50	H	---	-13.00	---
19075.00	H	---	-13.00	---
19400.00	S	-32.87	-13.00	19.87

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “” : denotes Spurious Freque

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Figure 9-77: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

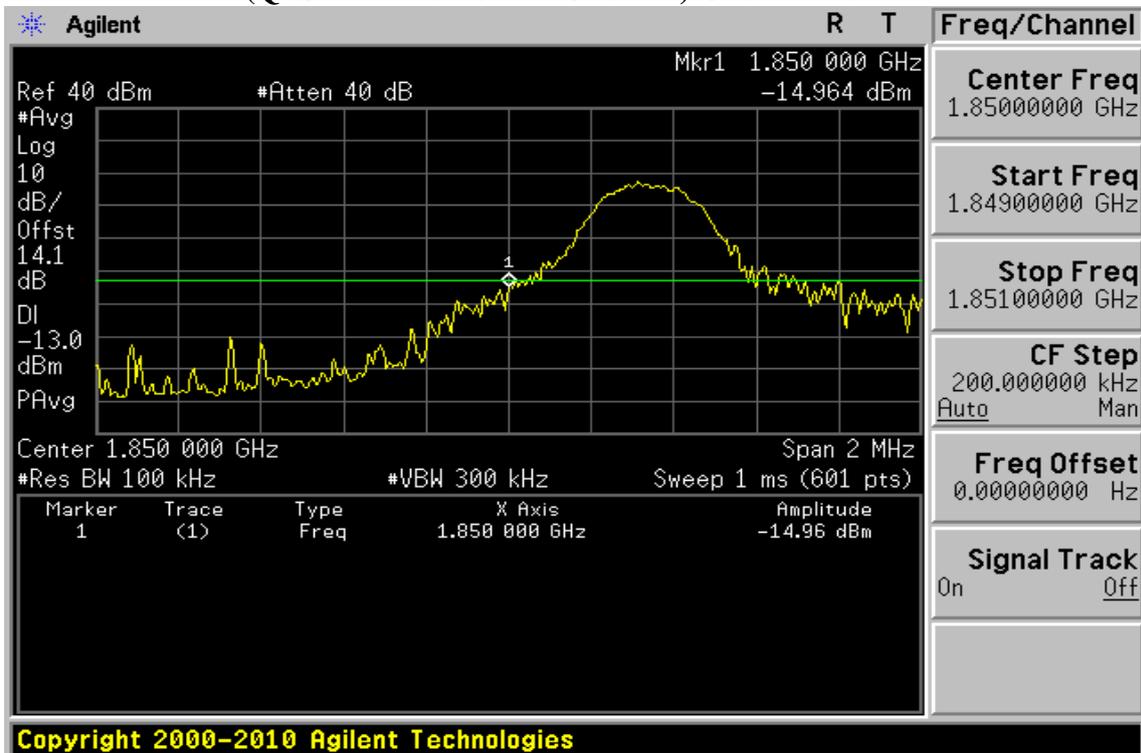
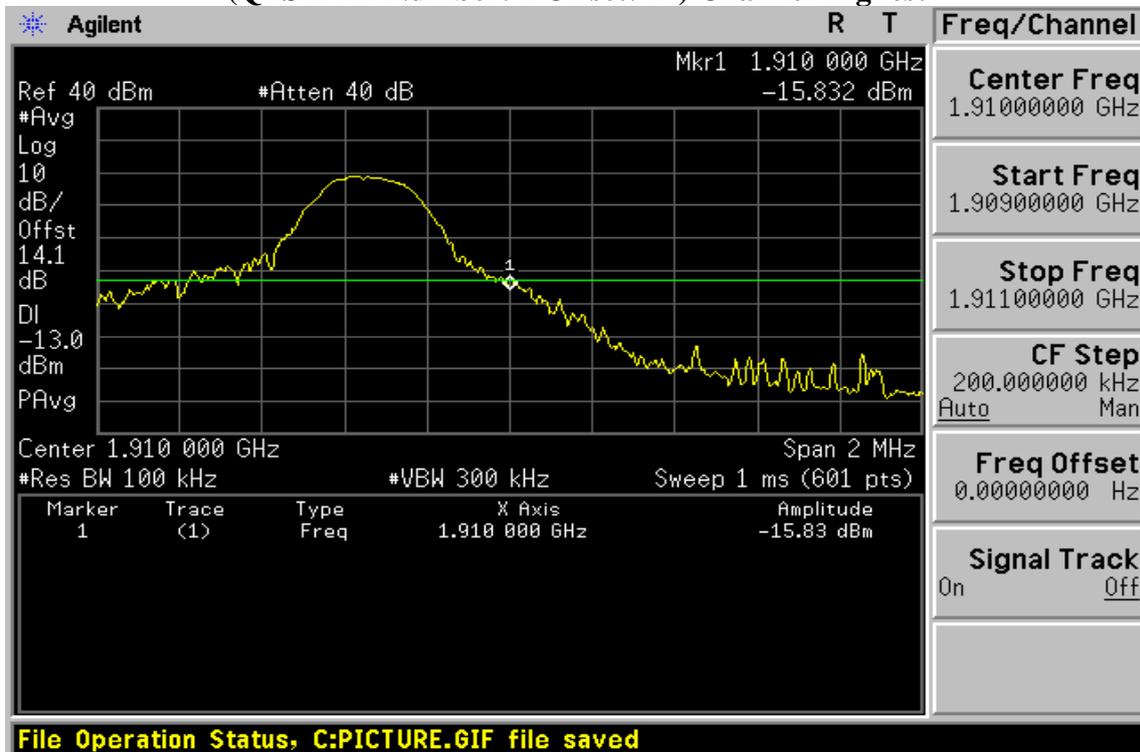


Figure 9-78: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)

Test Mode 5MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-14.96	-13.00	1.96
1910.000	-15.83	-13.00	2.83

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Figure 9-79: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Lowest

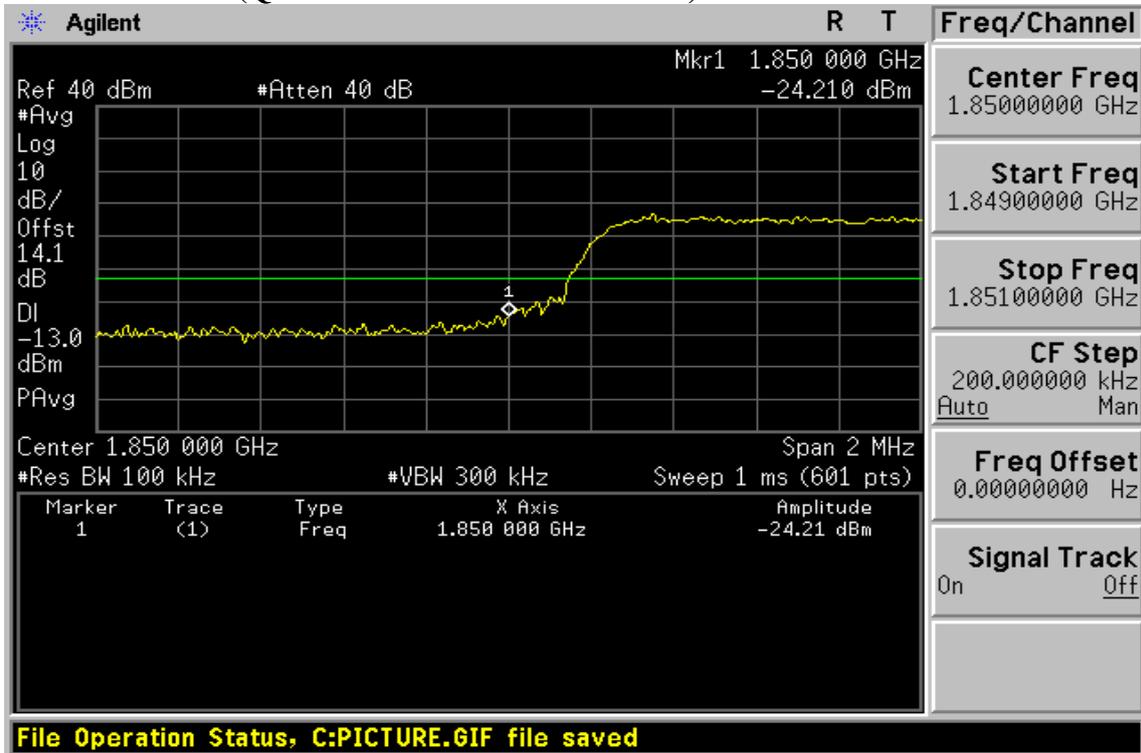
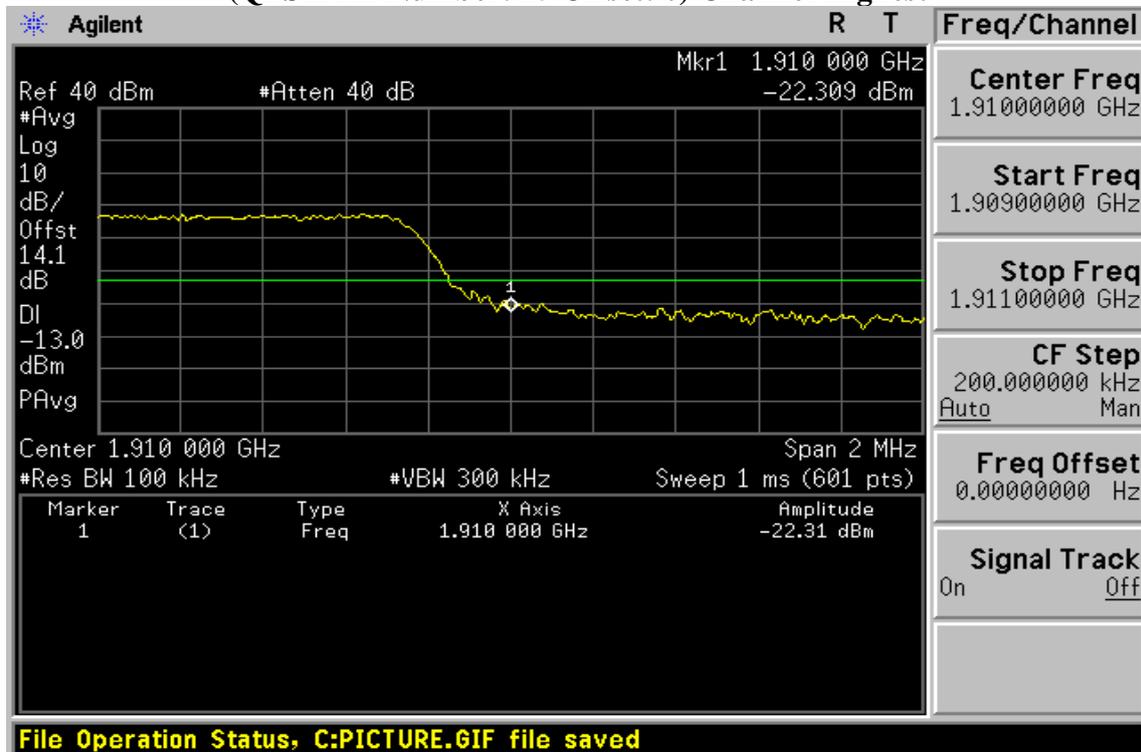


Figure 9-80: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 2

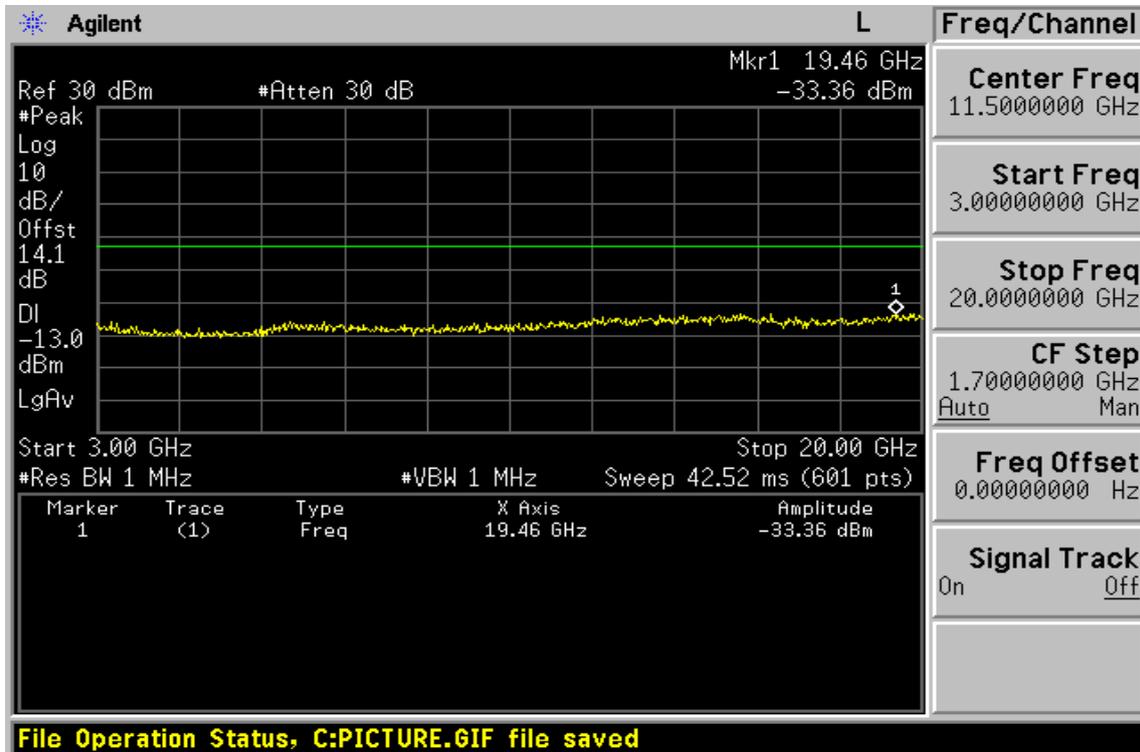
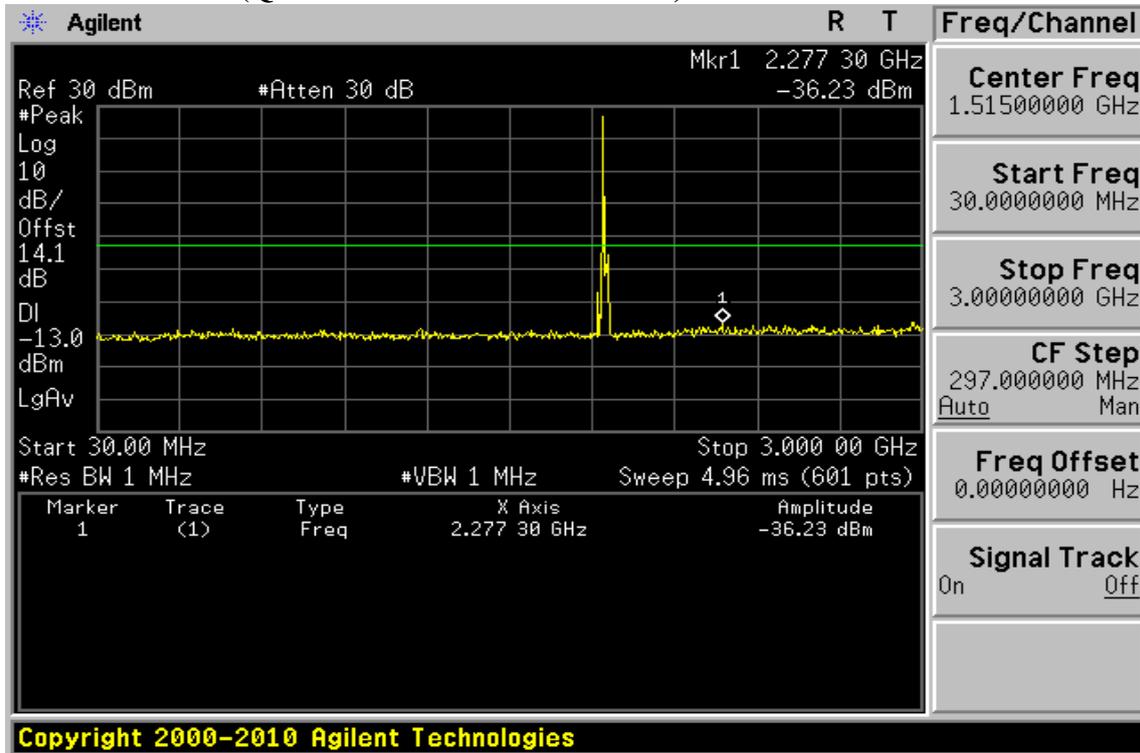
(QPSK RB Number: 25 Offset: 0)

Test Mode 5MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-24.21	-13.00	11.21
1910.000	-22.31	-13.00	9.31

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Figure 9-81: Out of Band emission at antenna terminals–10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

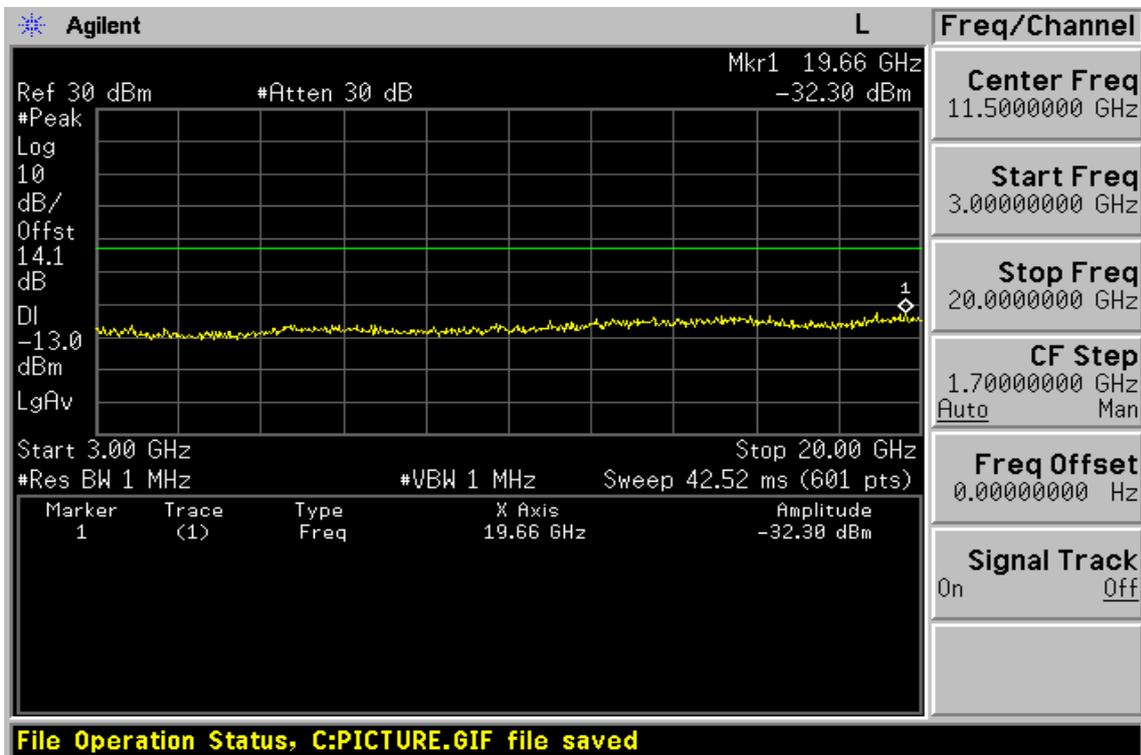
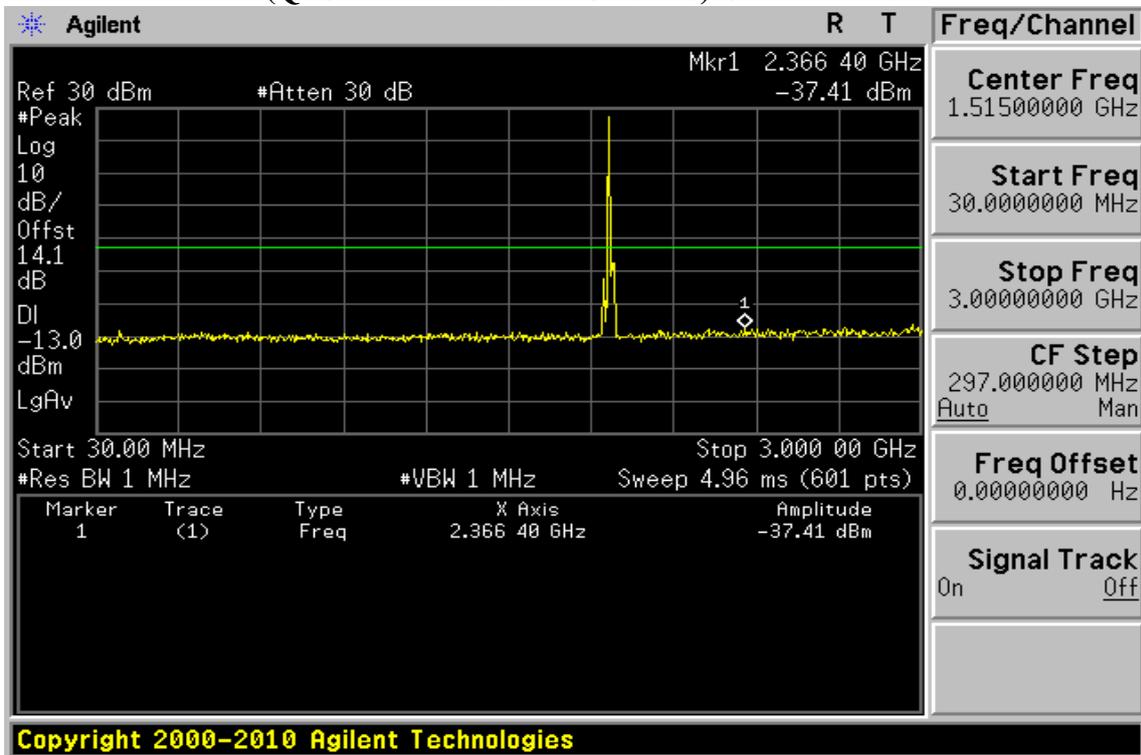


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Figure 9-82: Out of Band emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

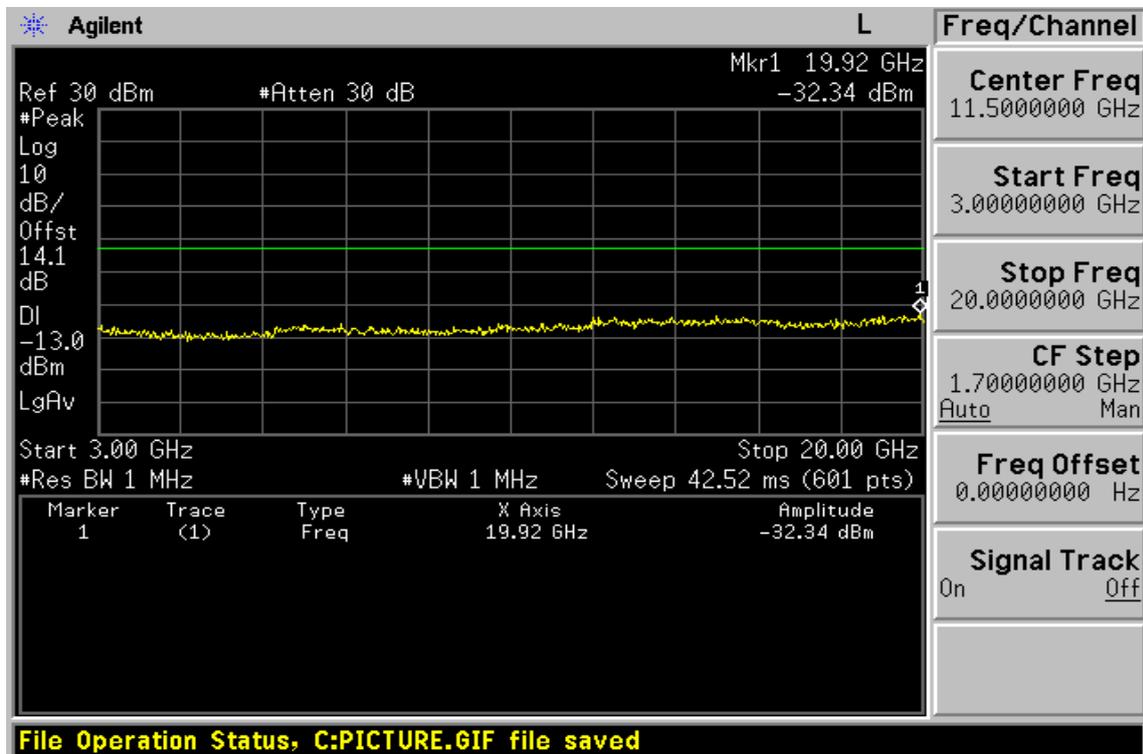
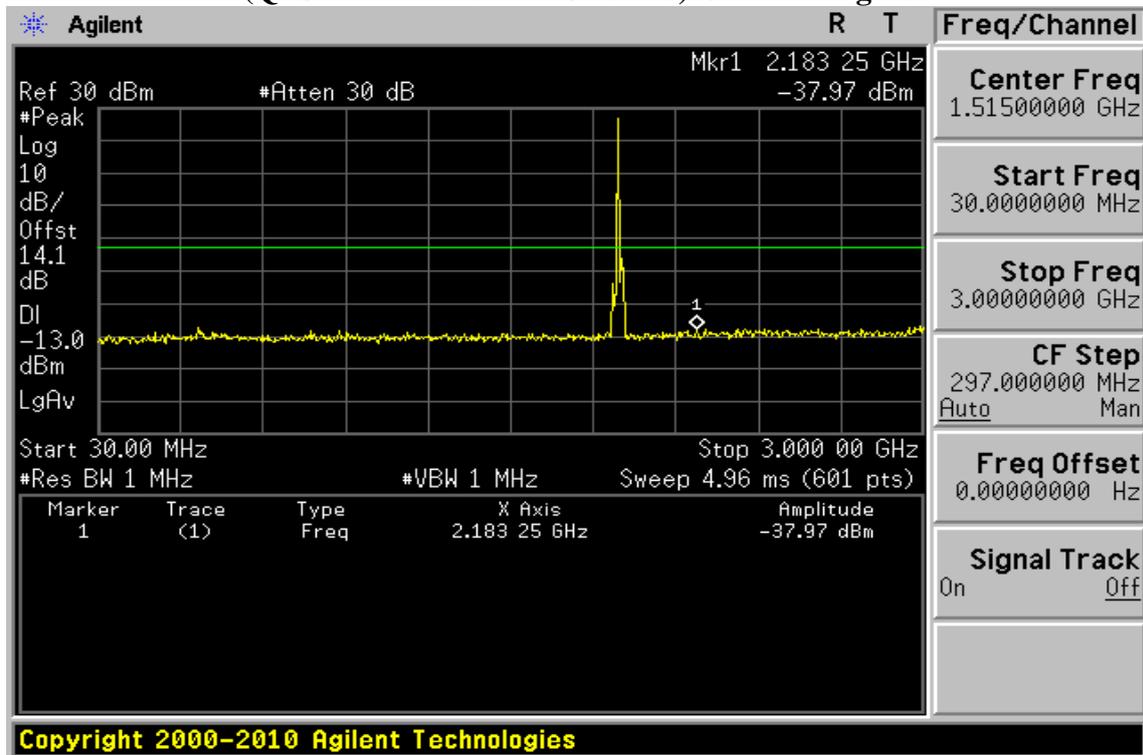


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Figure 9-83: Out of Band emission at antenna terminals–10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –10MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1855.0 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3710.00	H	---	-13.00	---
5565.00	H	---	-13.00	---
7420.00	H	---	-13.00	---
9275.00	H	---	-13.00	---
11130.00	H	---	-13.00	---
12985.00	H	---	-13.00	---
14840.00	H	---	-13.00	---
16695.00	H	---	-13.00	---
18550.00	H	---	-13.00	---
19460.00	S	-33.36	-13.00	20.36

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19660.00	S	-32.3	-13.00	19.30

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1905.0 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3810.00	H	---	-13.00	---
5715.00	H	---	-13.00	---
7620.00	H	---	-13.00	---
9525.00	H	---	-13.00	---
11430.00	H	---	-13.00	---
13335.00	H	---	-13.00	---
15240.00	H	---	-13.00	---
17145.00	H	---	-13.00	---
19050.00	H	---	-13.00	---
19920.00	S	-32.34	-13.00	19.34

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
 "" : denotes Spurious Freque

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Figure 9-84: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

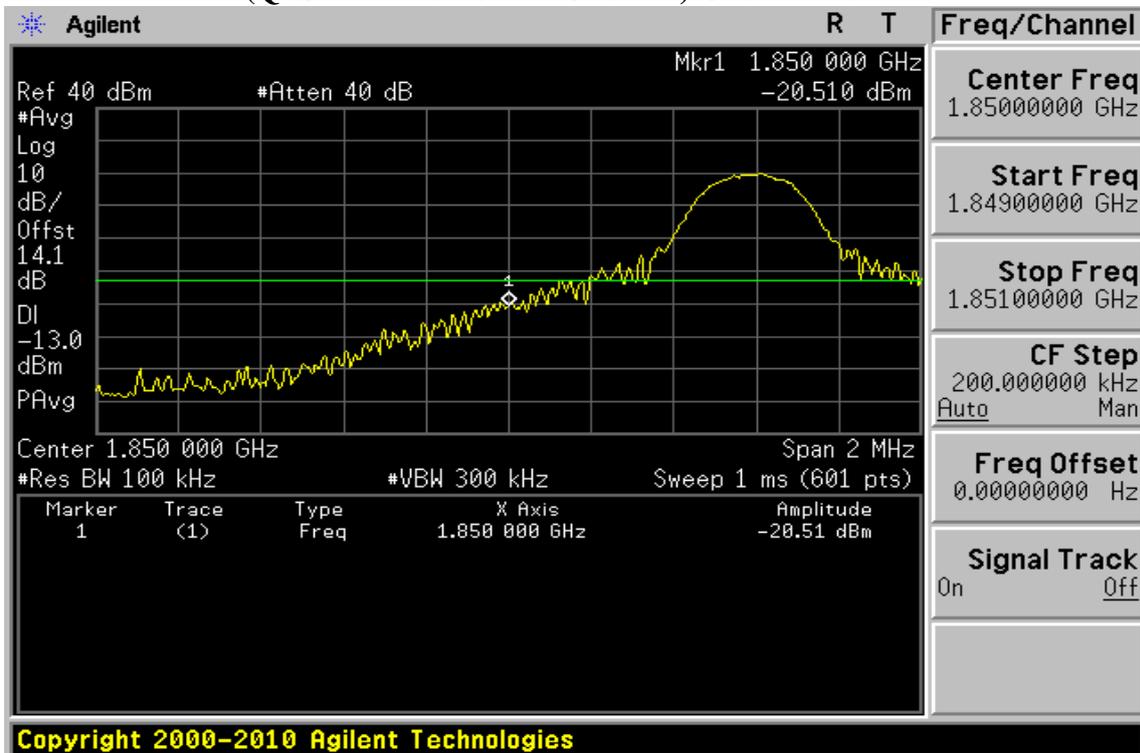
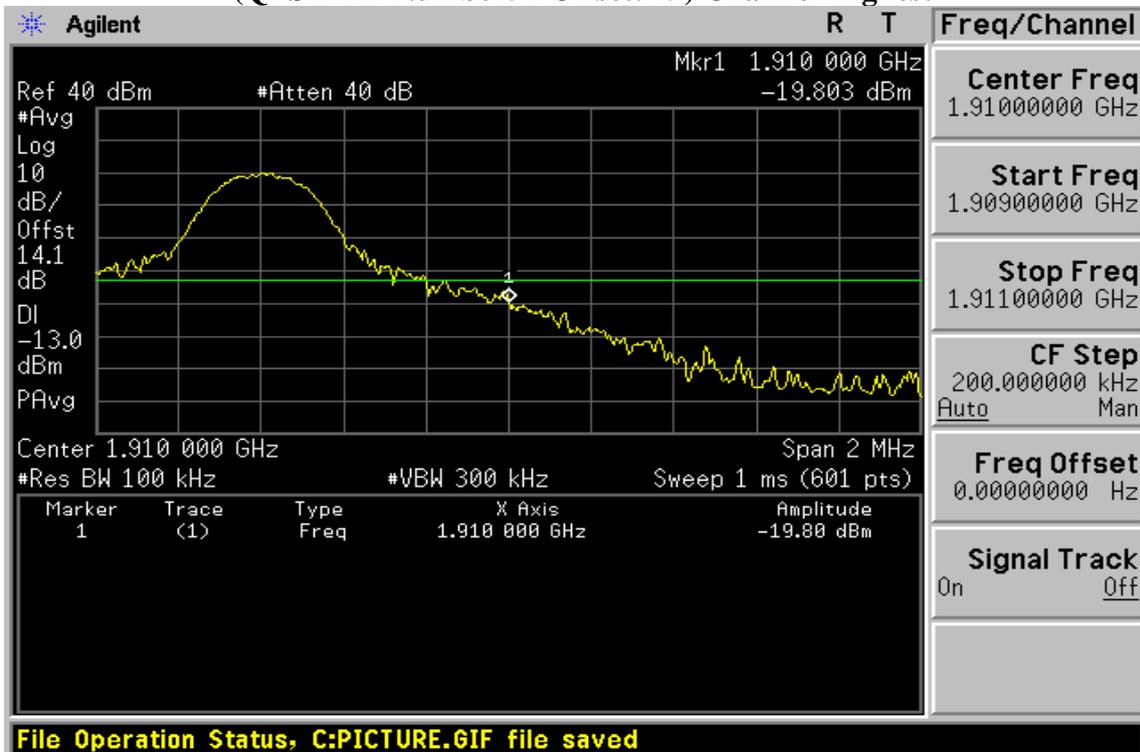


Figure 9-85: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)

Test Mode 10MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-25.51	-13.00	12.51
1910.000	-19.8	-13.00	6.80

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Figure 9-86 Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel Lowest

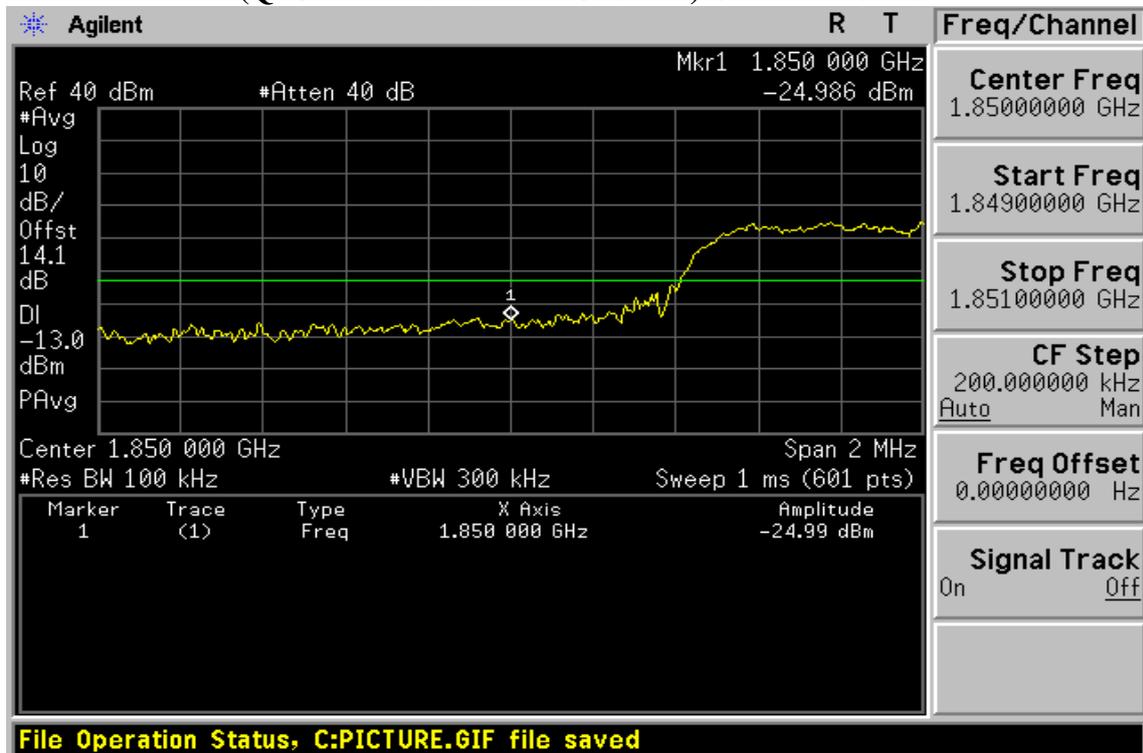
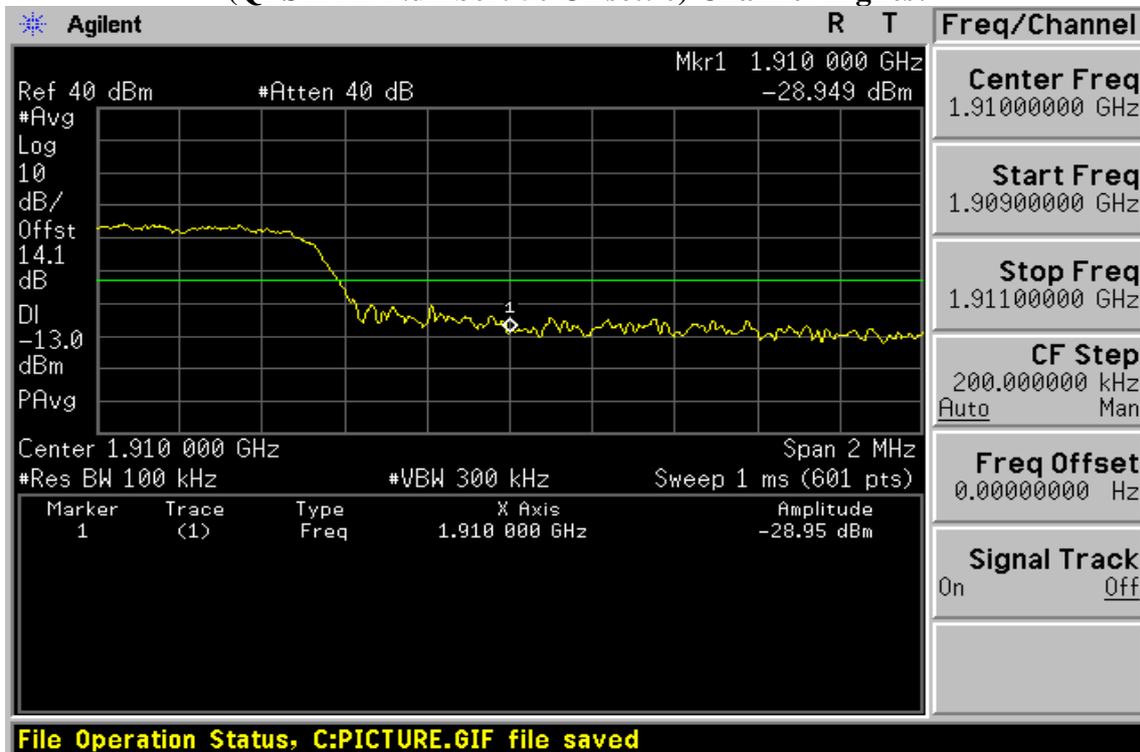


Figure 9-87: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 2

(QPSK RB Number: 50 Offset: 0)

Test Mode 10MHz BW LTE-Band 2 Engineer :Nick

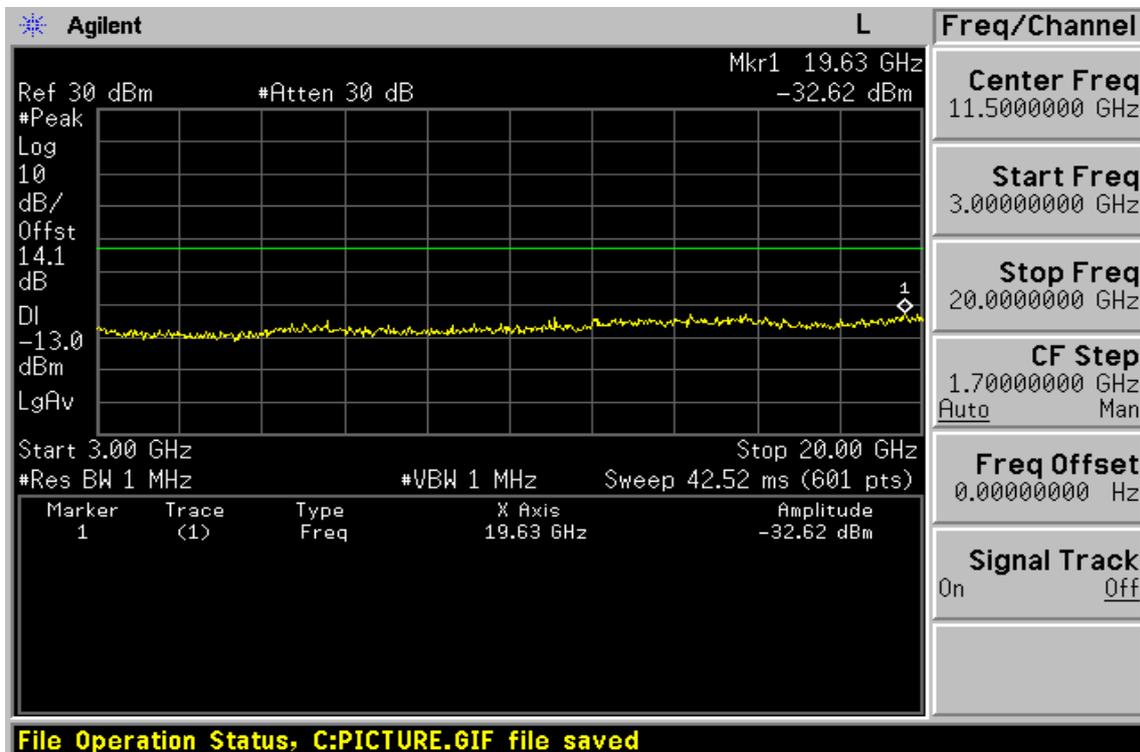
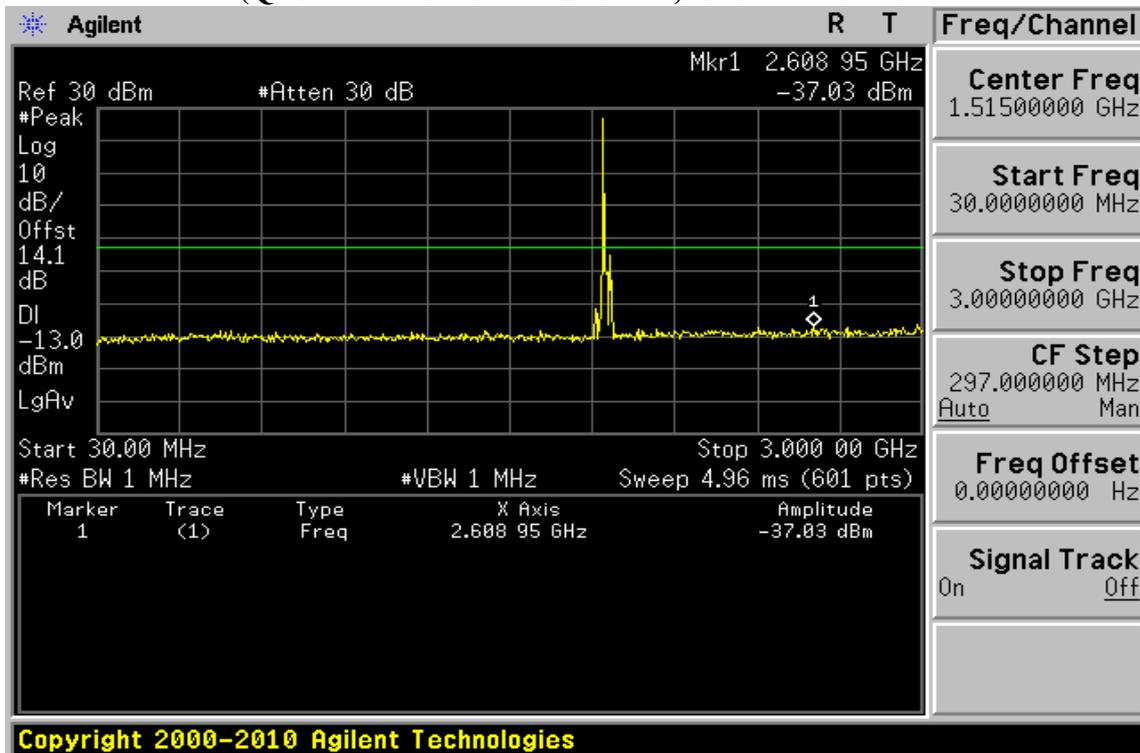
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-24.99	-13.00	11.99
1910.000	-28.95	-13.00	15.95

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Figure 9-88: Out of Band emission at antenna terminals–15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

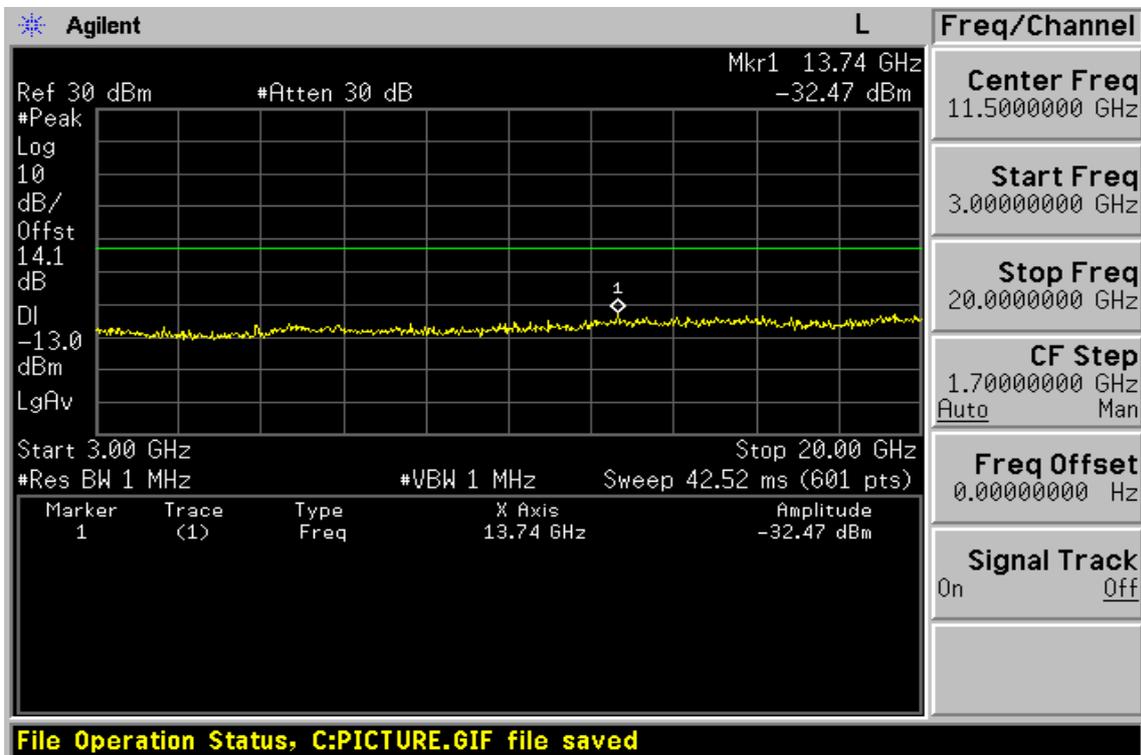
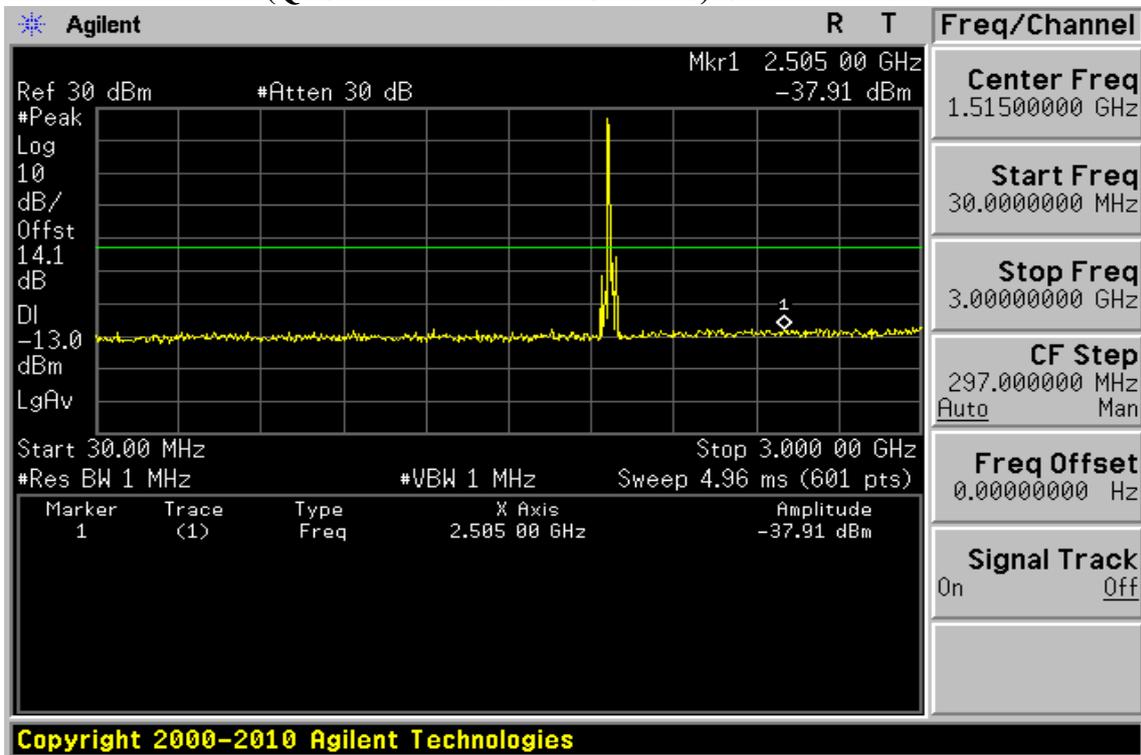


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Figure 9-89: Out of Band emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

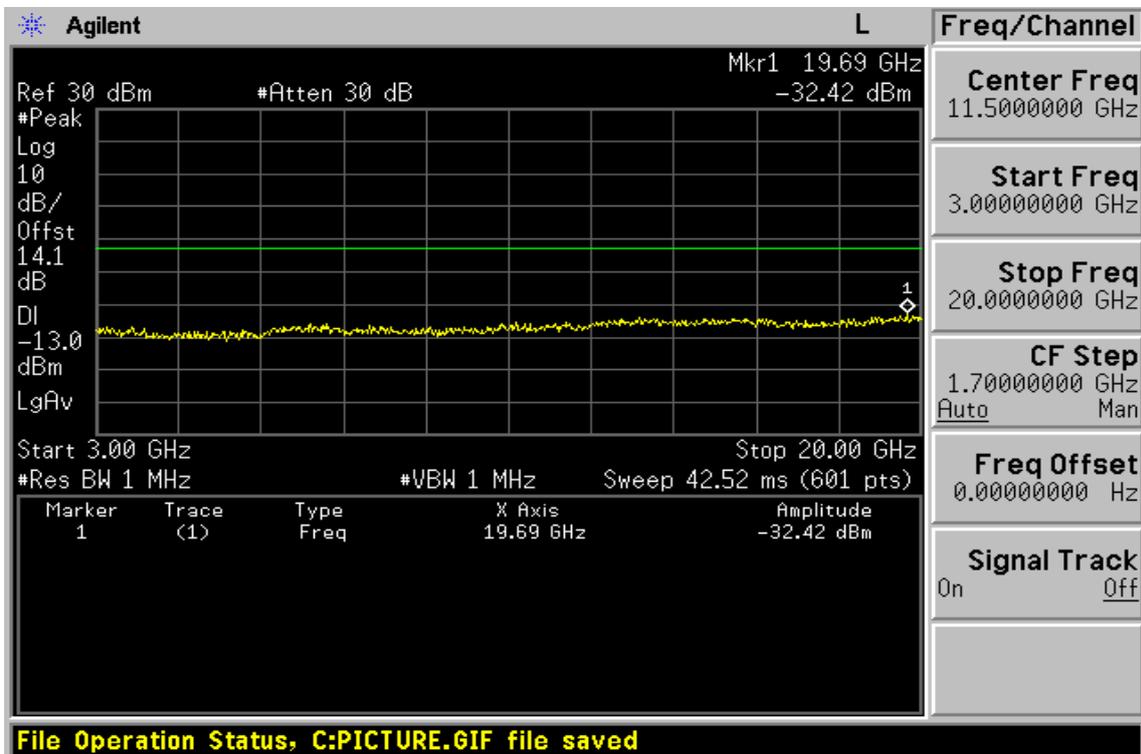
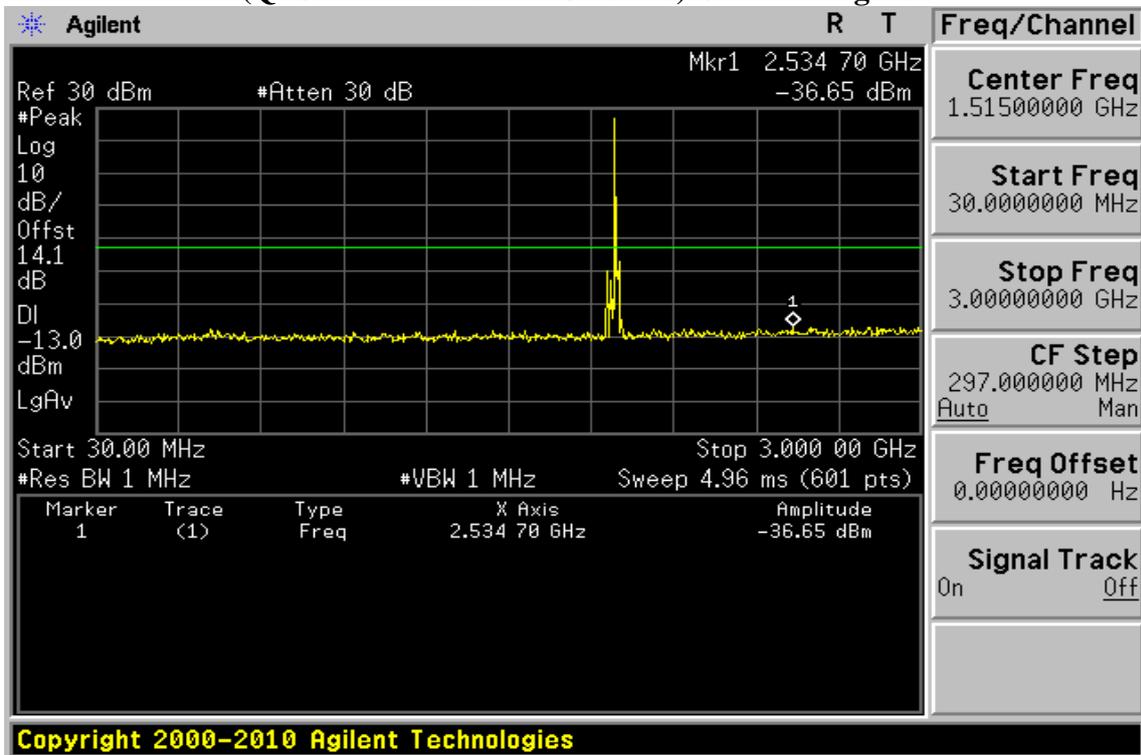


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Figure 9-90: Out of Band emission at antenna terminals–15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –15MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1857.5 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3714.00	H	---	-13.00	---
5571.00	H	---	-13.00	---
7428.00	H	---	-13.00	---
9285.00	H	---	-13.00	---
11142.00	H	---	-13.00	---
12999.00	H	---	-13.00	---
14856.00	H	---	-13.00	---
16713.00	H	---	-13.00	---
18570.00	H	---	-13.00	---
19630.00	S	-32.62	-13.00	19.62

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13740.00	S	-32.47	-13.00	19.47
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1902.5 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3805.00	H	---	-13.00	---
5707.50	H	---	-13.00	---
7610.00	H	---	-13.00	---
9512.50	H	---	-13.00	---
11415.00	H	---	-13.00	---
13317.50	H	---	-13.00	---
15220.00	H	---	-13.00	---
17122.50	H	---	-13.00	---
19025.00	H	---	-13.00	---
19690.00	S	-32.42	-13.00	19.42

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “” : denotes Spurious Freque

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Figure 9-91: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

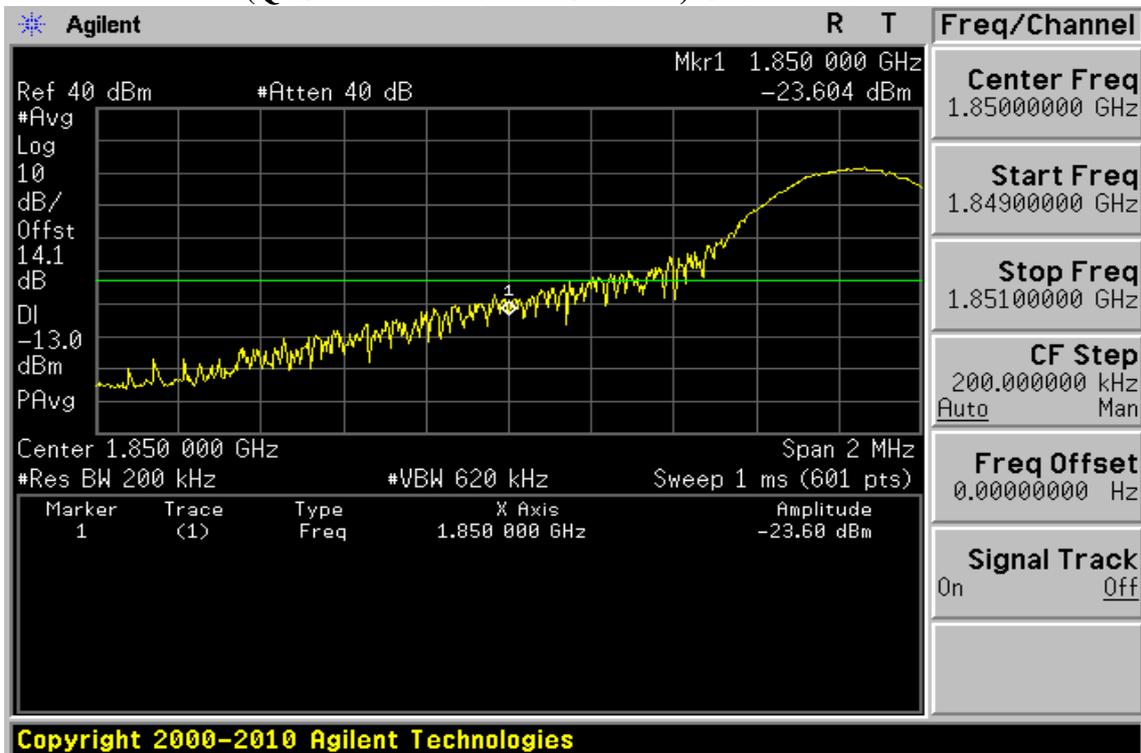
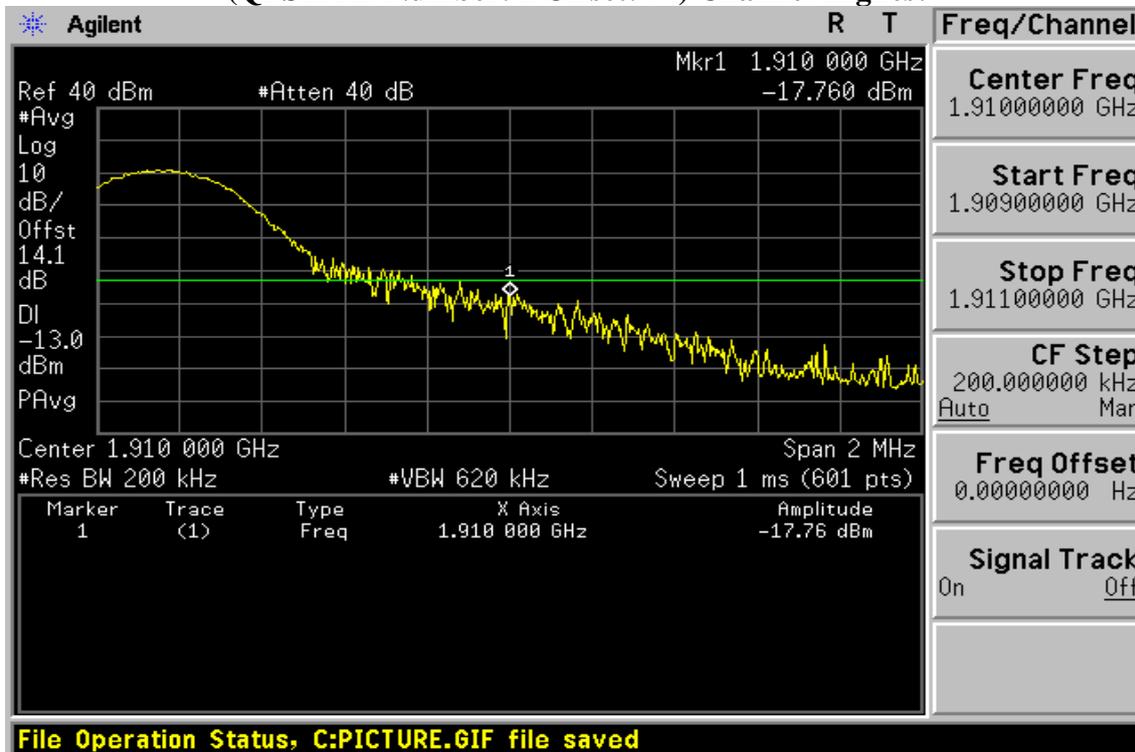


Figure 9-92: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 74) Channel Highest



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Band edge emission at antenna terminals –15MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 74)

Test Mode 15MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-23.60	-13.00	10.60
1910.000	-17.76	-13.00	4.76

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Figure 9-93: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0) Channel Lowest

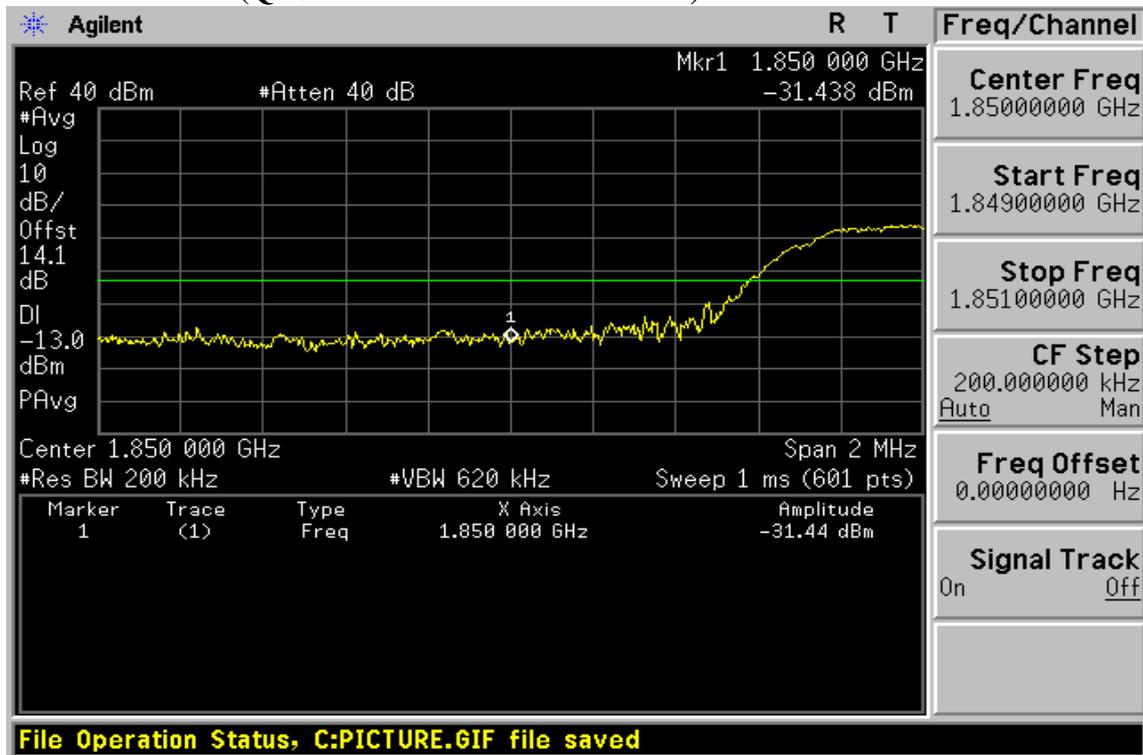
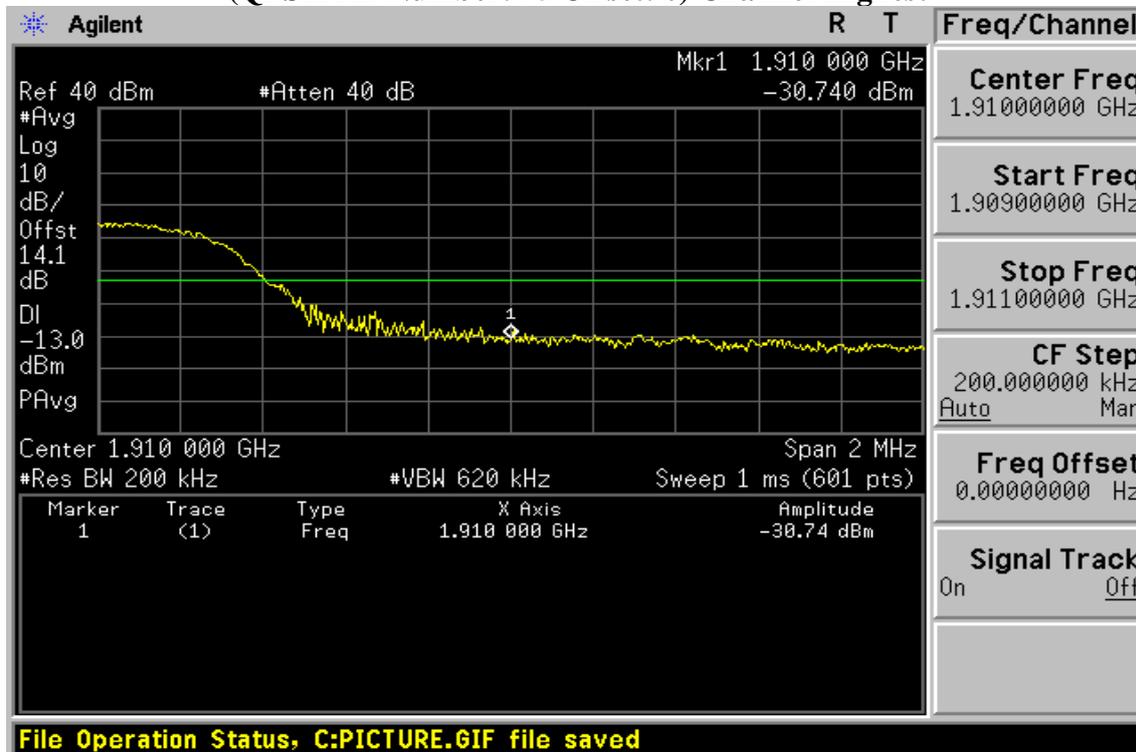


Figure 9-94: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –15MHz BW LTE-Band 2

(QPSK RB Number: 75 Offset: 0)

Test Mode 15MHz BW LTE-Band 2 Engineer :Nick

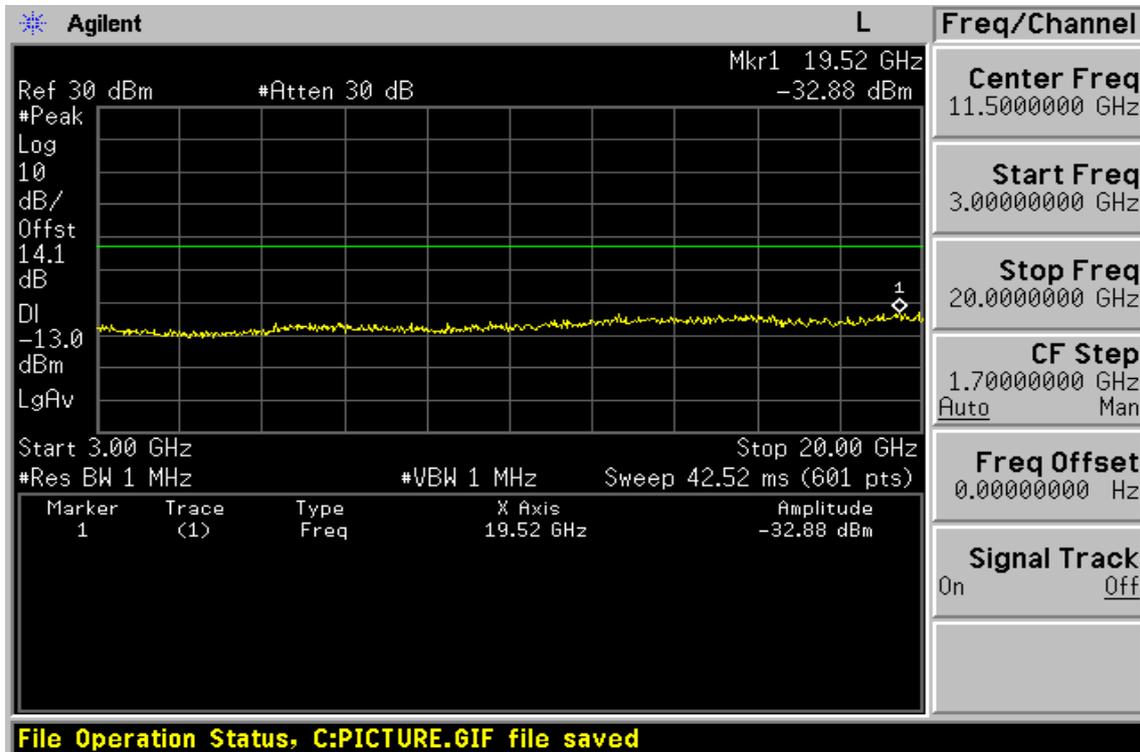
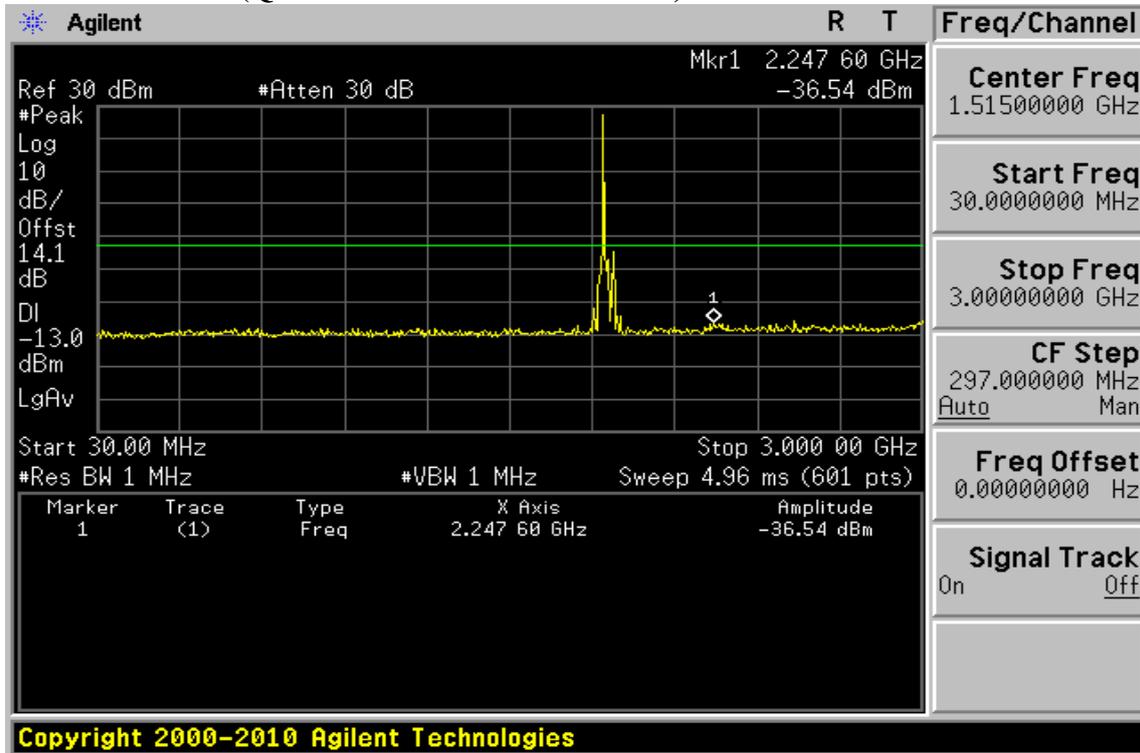
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-31.44	-13.00	18.44
1910.000	-30.74	-13.00	17.74

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Figure 9-95: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

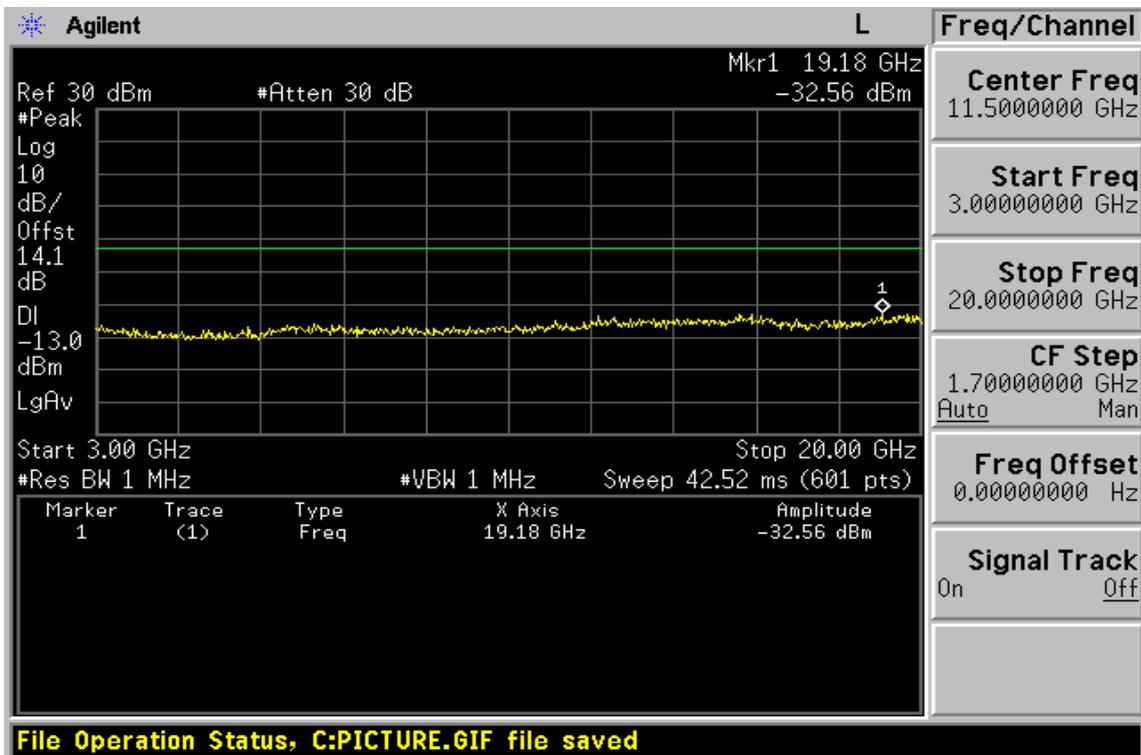
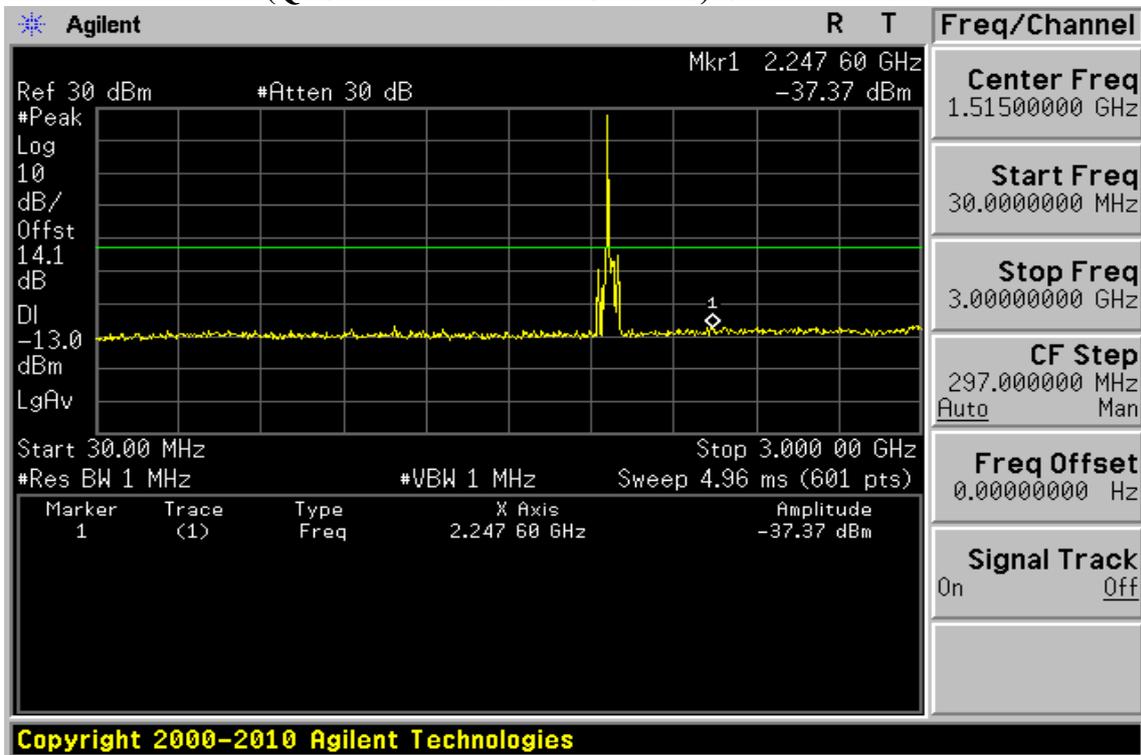


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Figure 9-96: Out of Band emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

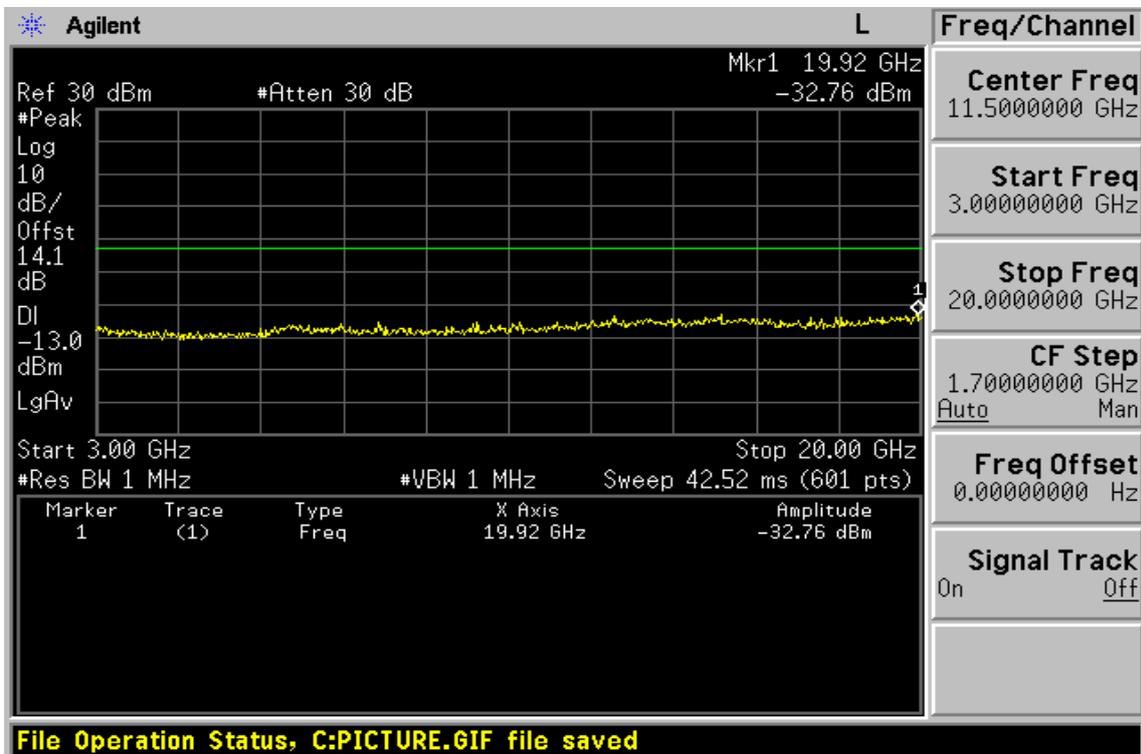
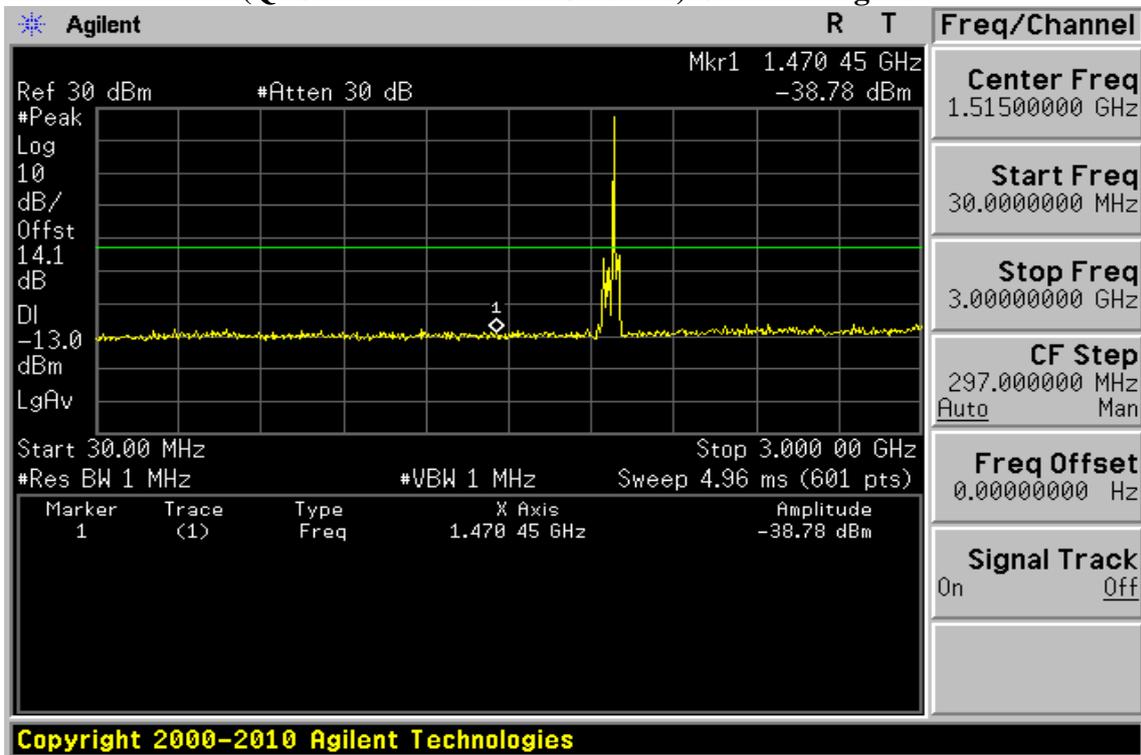


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Figure 9-97: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –20MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1860.0 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3720.00	H	---	-13.00	---
5580.00	H	---	-13.00	---
7440.00	H	---	-13.00	---
9300.00	H	---	-13.00	---
11160.00	H	---	-13.00	---
13020.00	H	---	-13.00	---
14880.00	H	---	-13.00	---
16740.00	H	---	-13.00	---
18600.00	H	---	-13.00	---
19520.00	S	-32.88	-13.00	19.88

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19180.00	S	-32.56	-13.00	19.56

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :1900MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3800.00	H	---	-13.00	---
5700.00	H	---	-13.00	---
7600.00	H	---	-13.00	---
9500.00	H	---	-13.00	---
11400.00	H	---	-13.00	---
13300.00	H	---	-13.00	---
15200.00	H	---	-13.00	---
17100.00	H	---	-13.00	---
19000.00	H	---	-13.00	---
19920.00	S	-32.76	-13.00	19.76

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “” : denotes Spurious Freque

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Figure 9-98: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

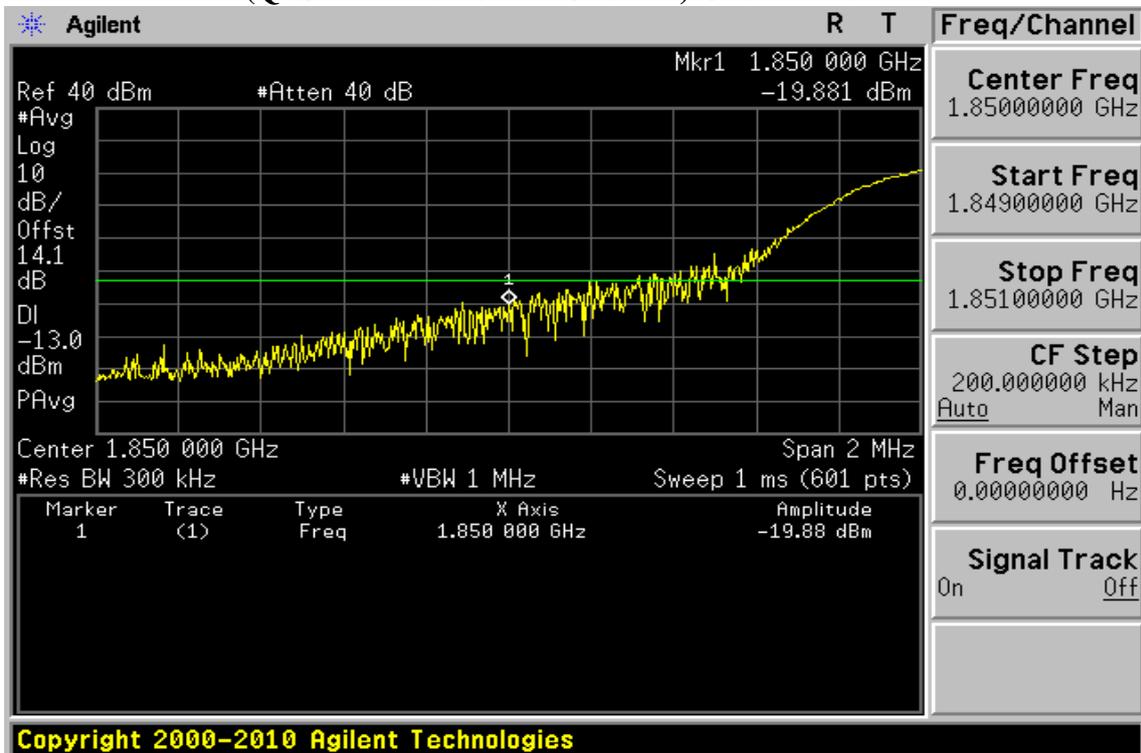
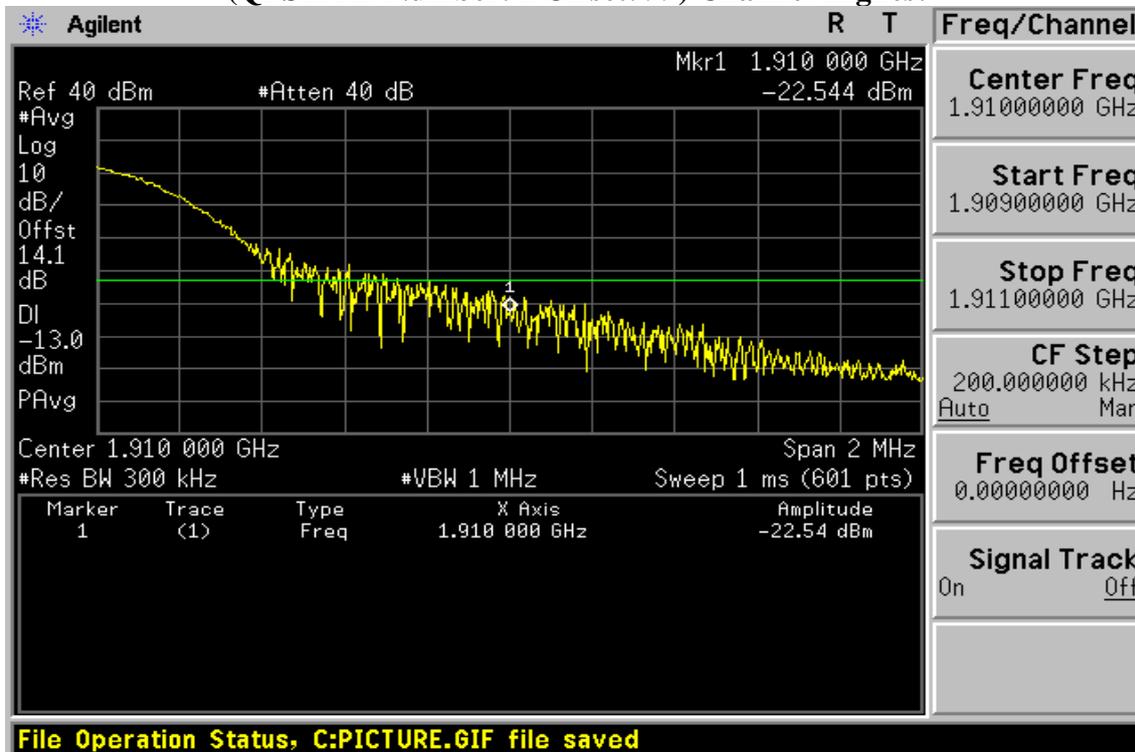


Figure 9-99: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 99) Channel Highest



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Band edge emission at antenna terminals –20MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99)

Test Mode 20MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-19.88	-13.00	6.88
1910.000	-22.54	-13.00	9.54

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Figure 9-100: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0) Channel Lowest

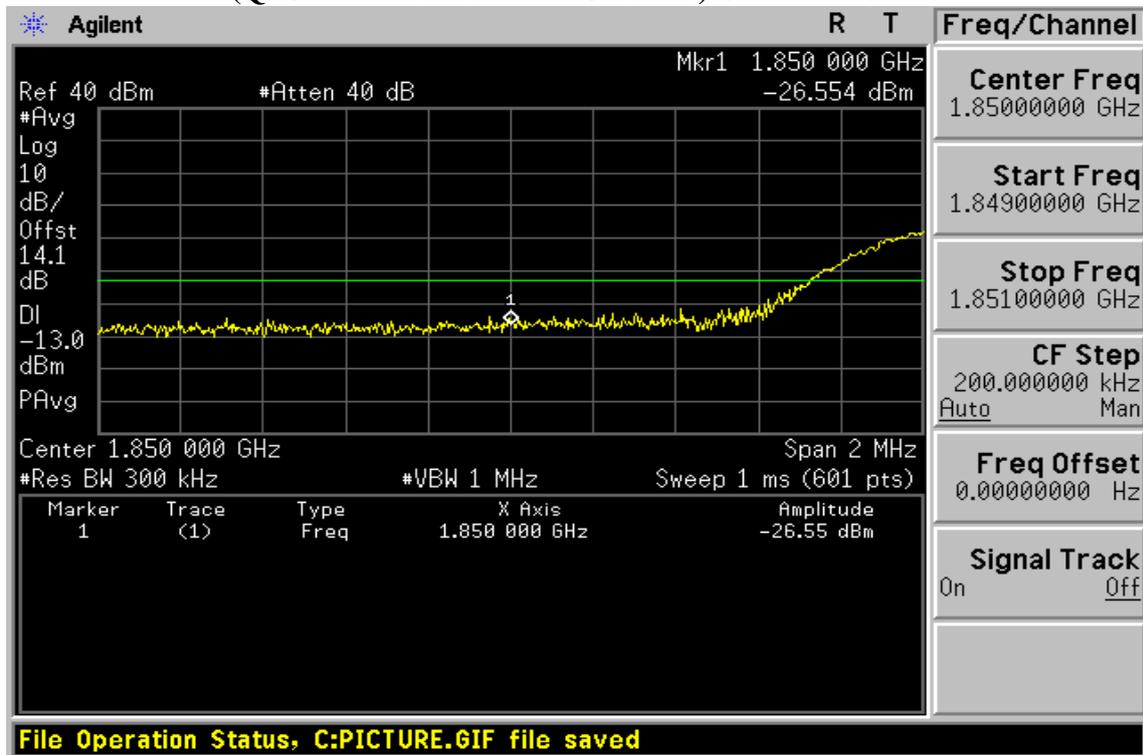
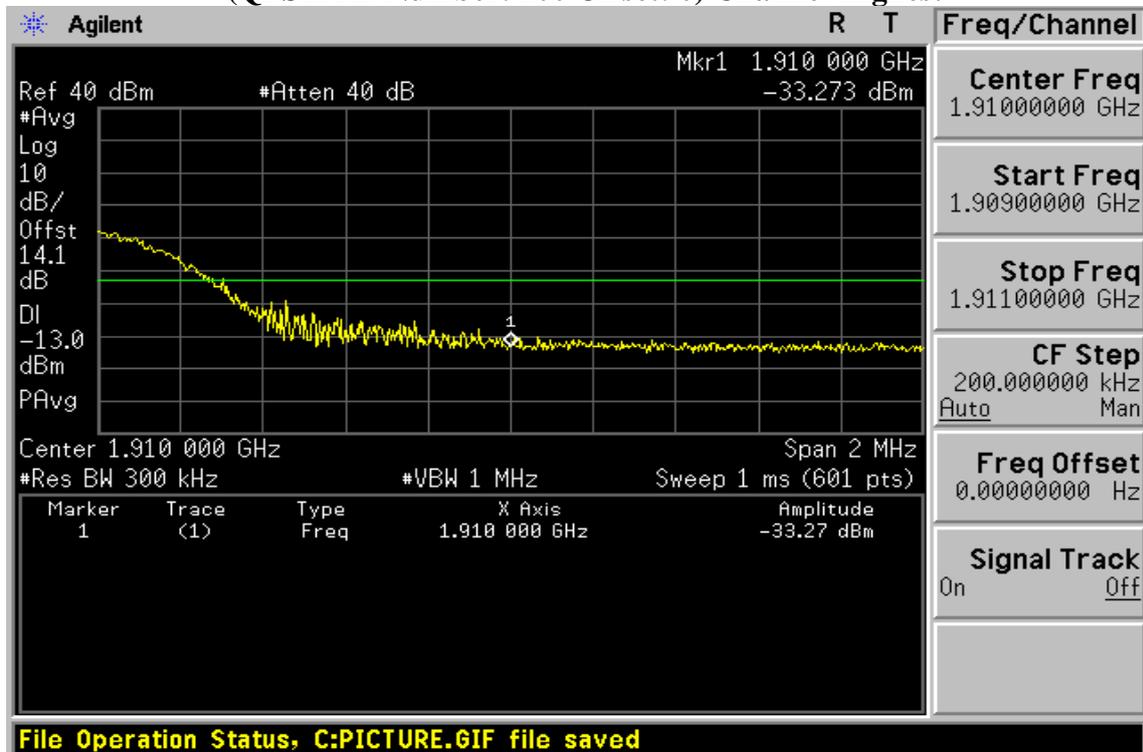


Figure 9-101: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –20MHz BW LTE-Band 2

(QPSK RB Number: 100 Offset: 0)

Test Mode 20MHz BW LTE-Band 2 Engineer :Nick

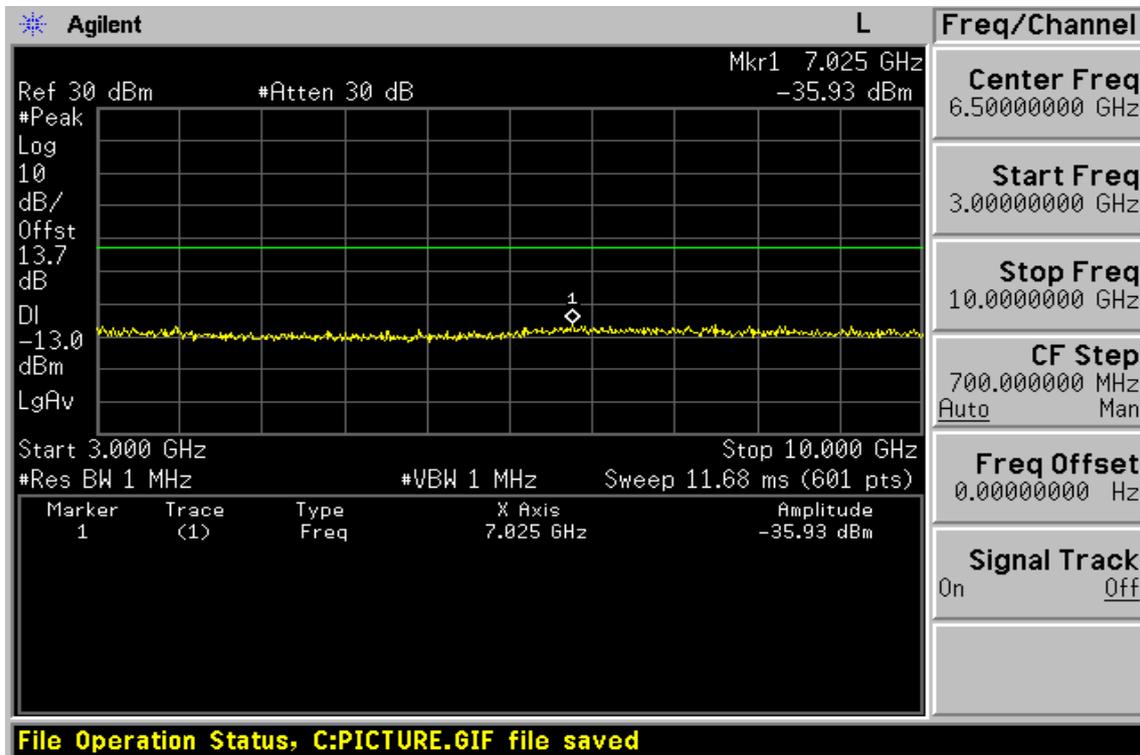
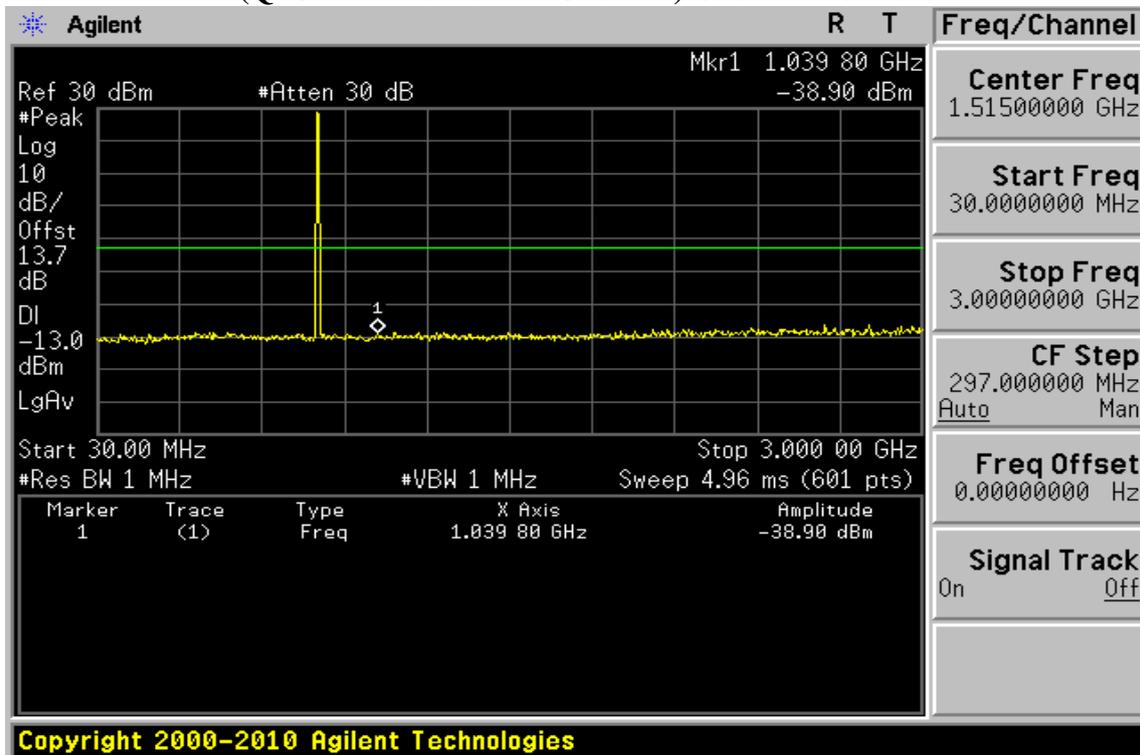
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-26.55	-13.00	13.55
1910.000	-33.27	-13.00	20.27

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Figure 9-102: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

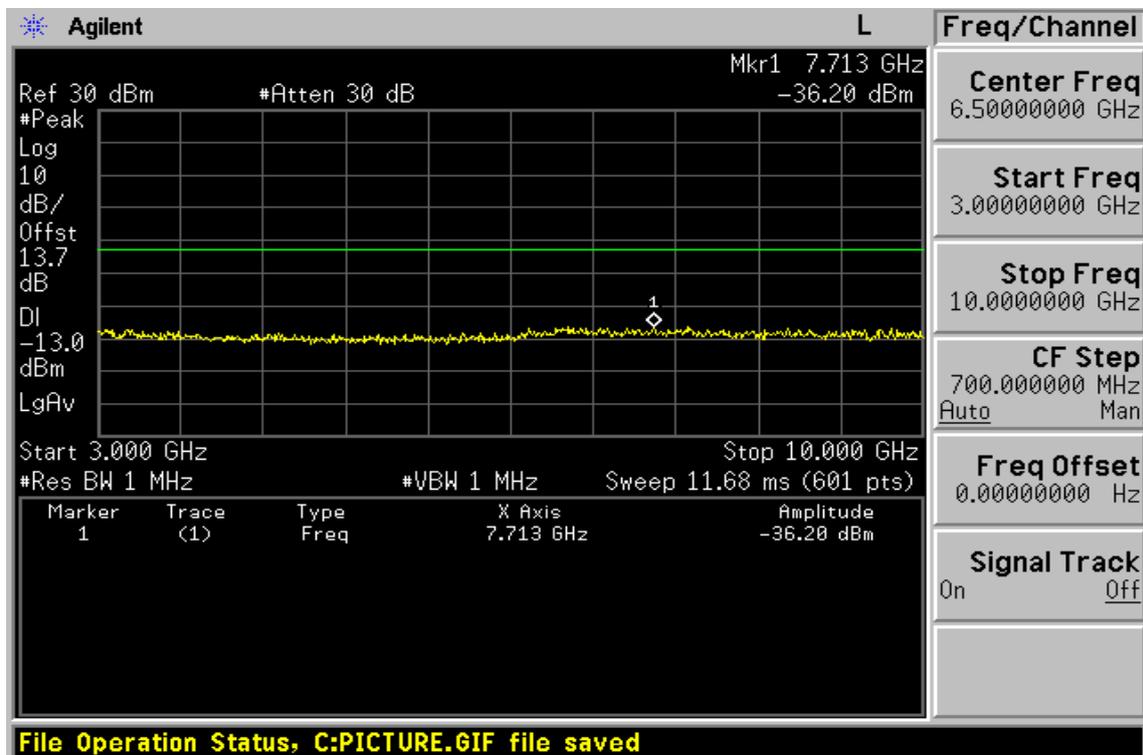
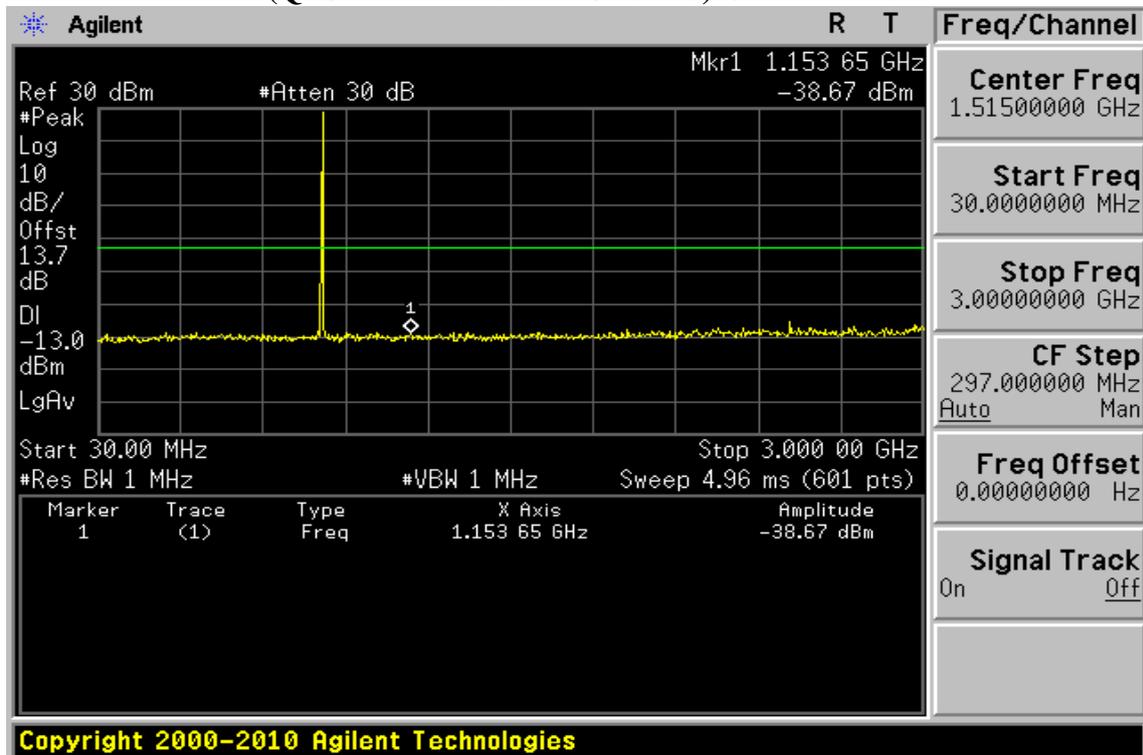


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Figure 9-103: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

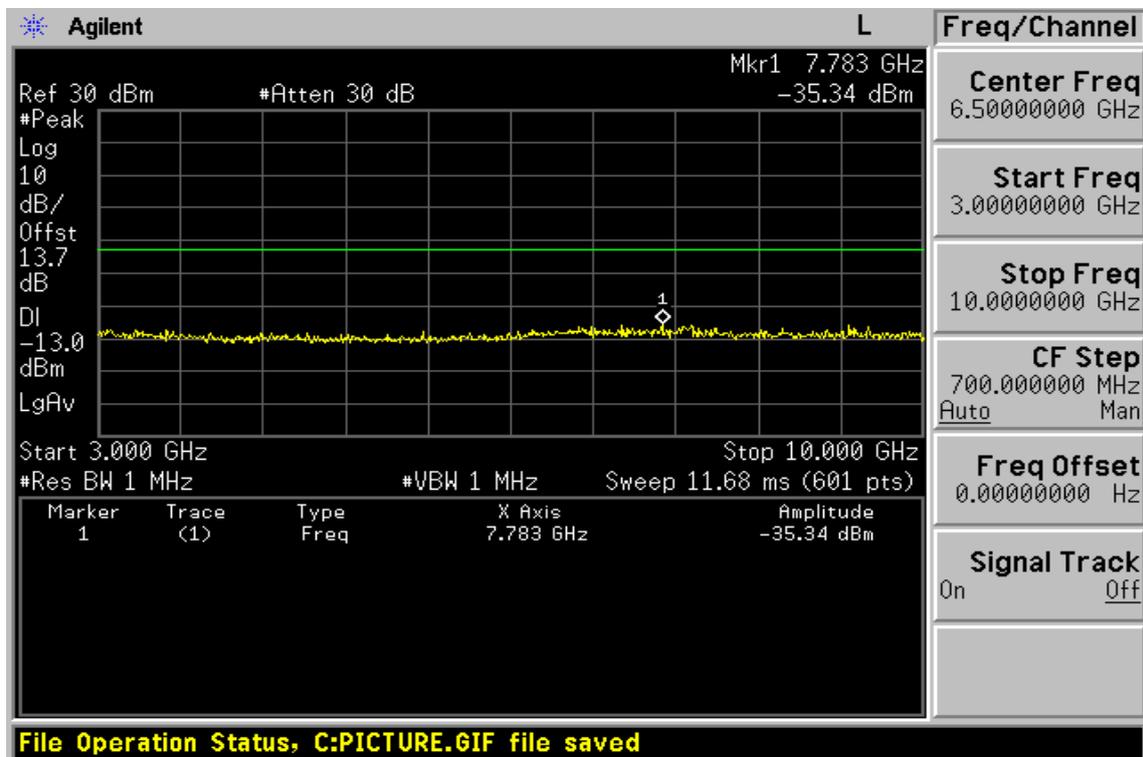
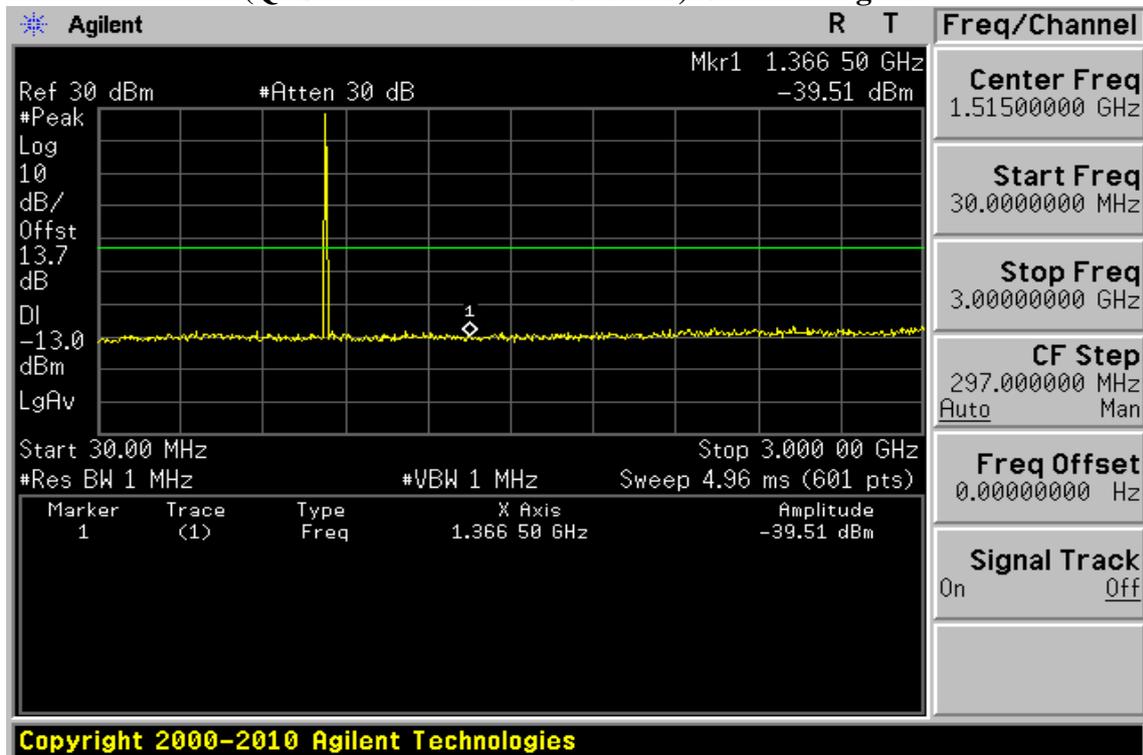


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Figure 9-104: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :824.7 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1649.40	H	---	-13.00	---
2474.10	H	---	-13.00	---
3298.80	H	---	-13.00	---
4123.50	H	---	-13.00	---
4948.20	H	---	-13.00	---
5772.90	H	---	-13.00	---
6597.60	H	---	-13.00	---
7025.00	S	-35.93	-13.00	22.93
7422.30	H	---	-13.00	---
8247.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.00	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7528.50	H	---	-13.00	---
7713.00	S	-36.2	-13.00	23.20
8365.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :848.3 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1696.60	H	---	-13.00	---
2544.90	H	---	-13.00	---
3393.20	H	---	-13.00	---
4241.50	H	---	-13.00	---
5089.80	H	---	-13.00	---
5938.10	H	---	-13.00	---
6786.40	H	---	-13.00	---
7634.70	H	---	-13.00	---
7783.00	S	-35.34	-13.00	22.34
8483.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “-” : denotes Spurious Freque

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Figure 9-105: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

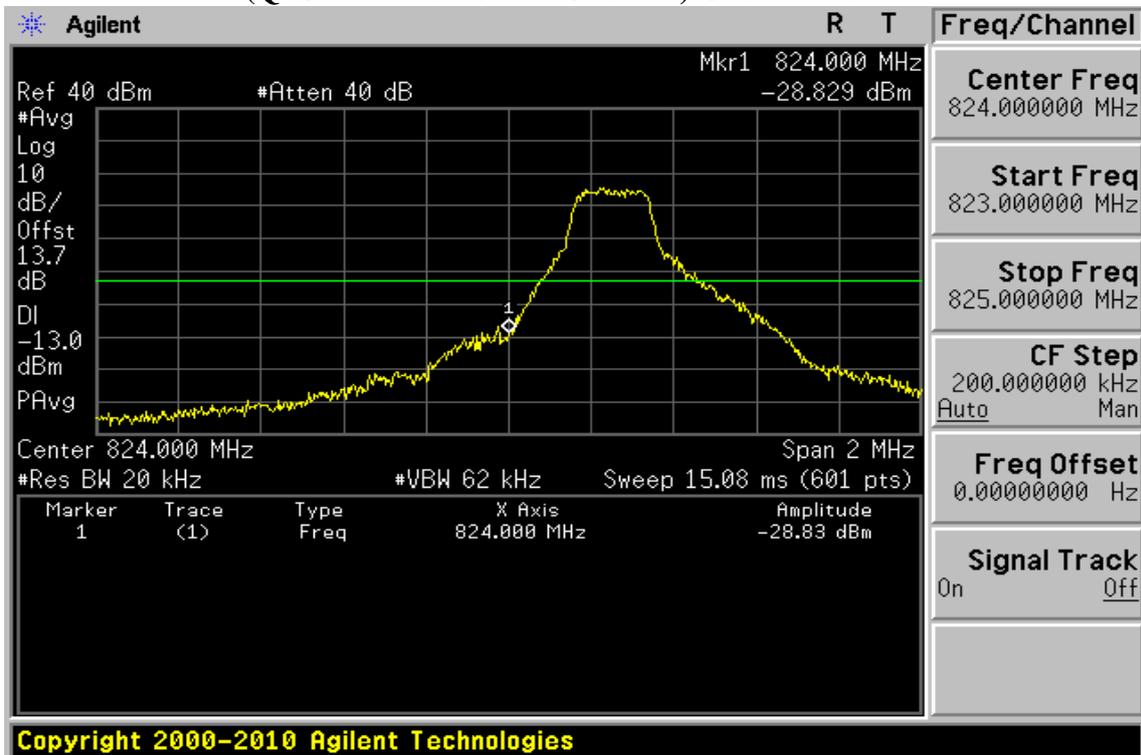
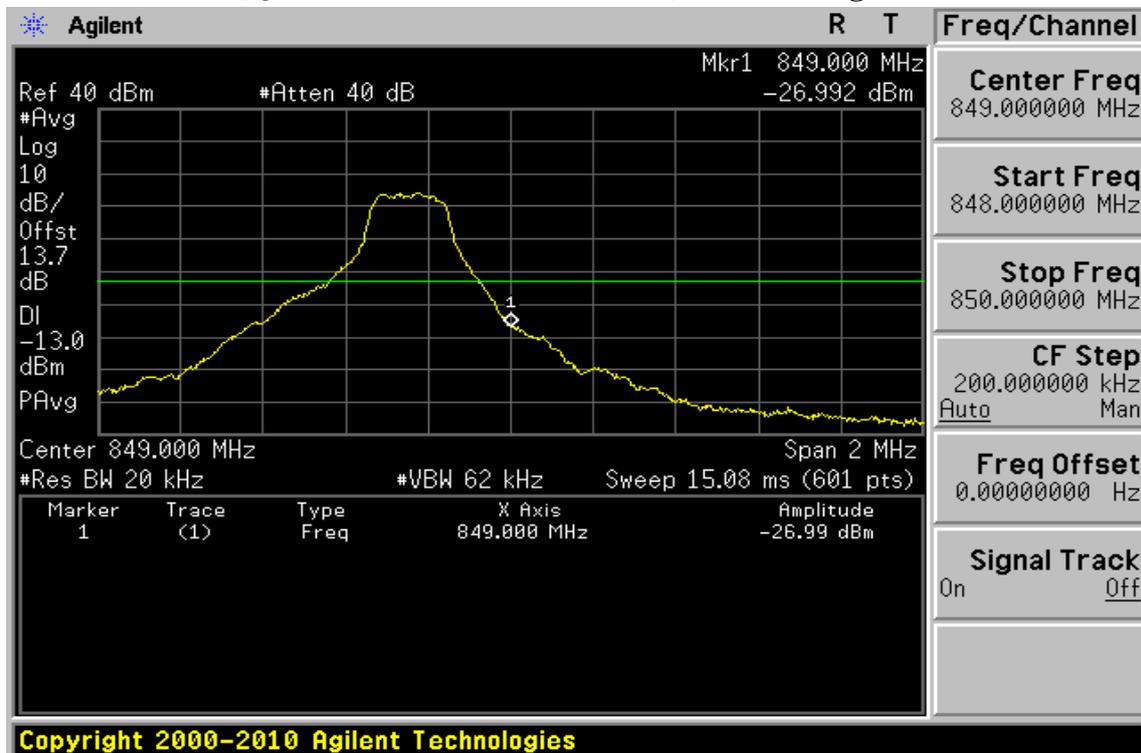


Figure 9-106: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 5) Channel Highest



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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5)

Test Mode 1.4MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-28.83	-13.00	15.83
849.000	-26.99	-13.00	13.99

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Figure 9-107: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Lowest

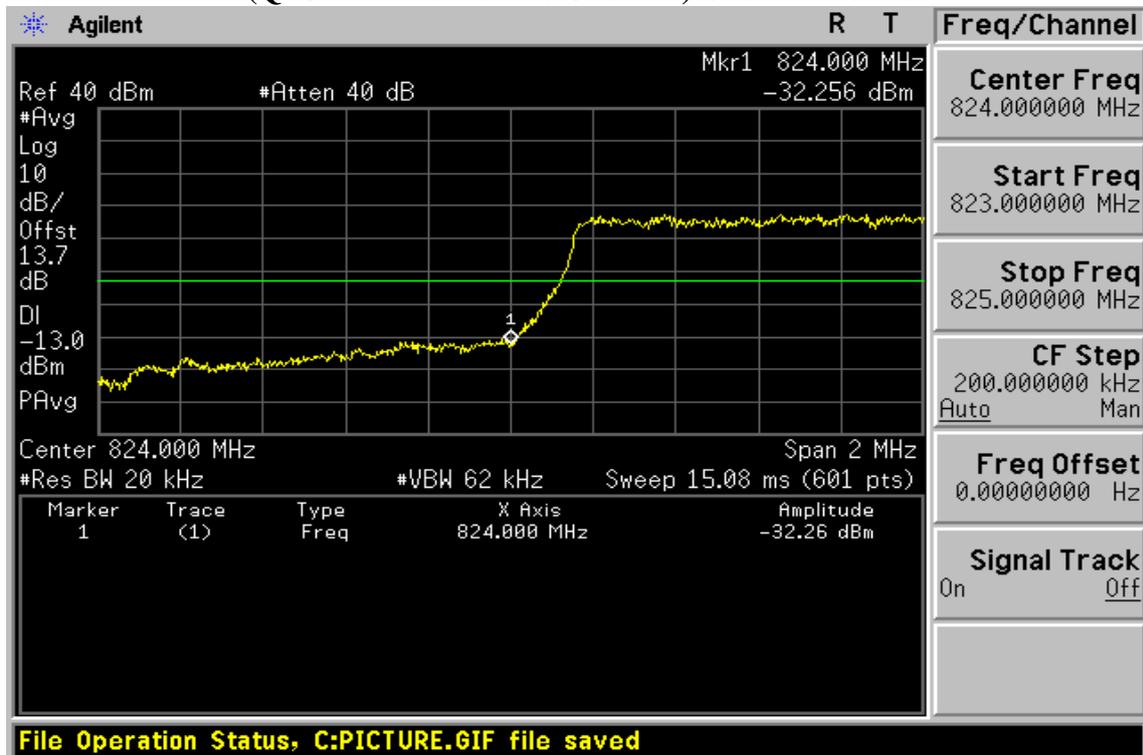
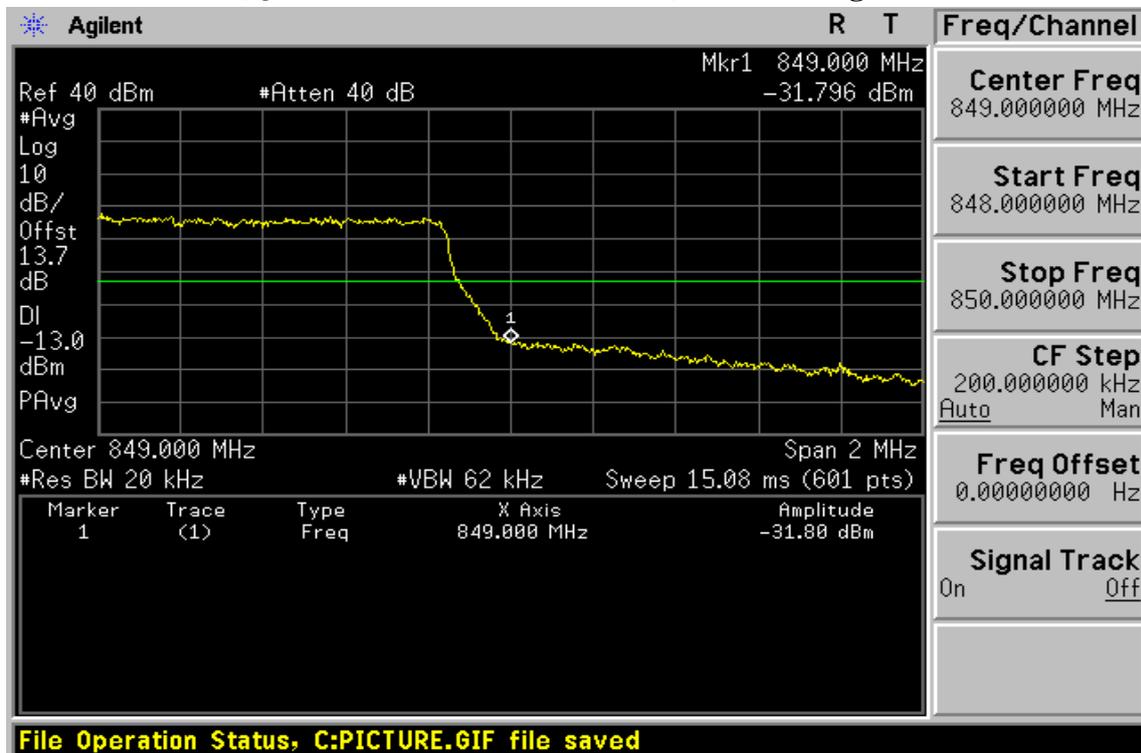


Figure 9-108: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Highest

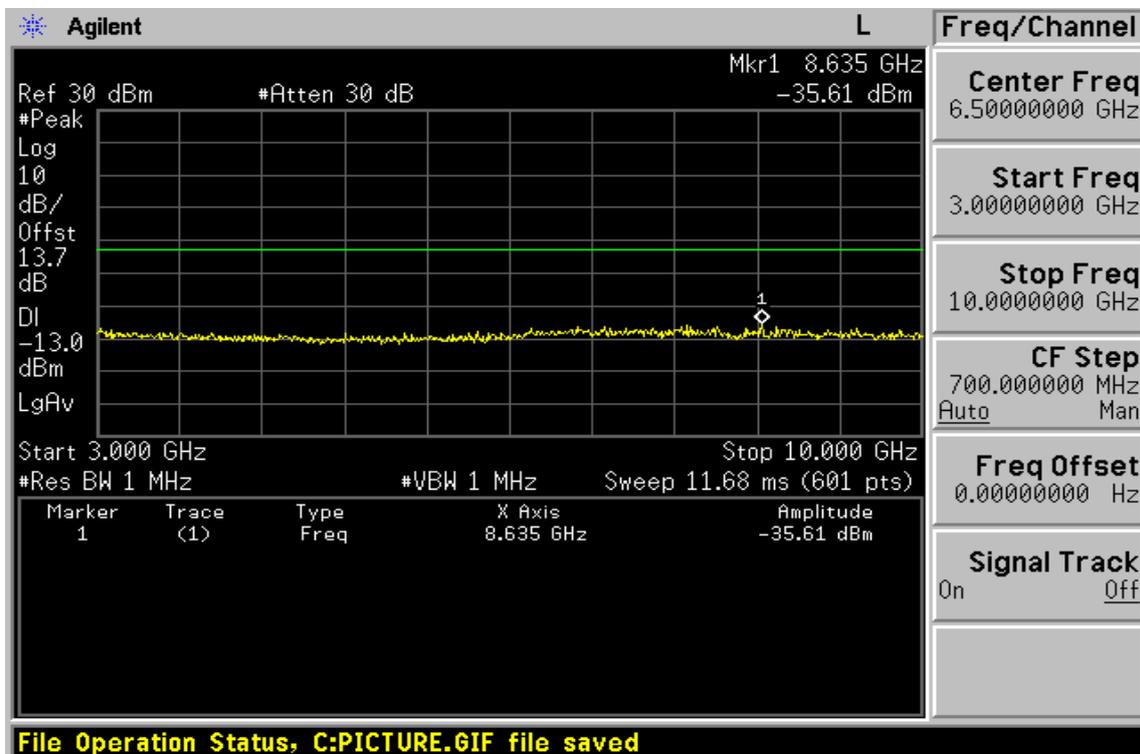
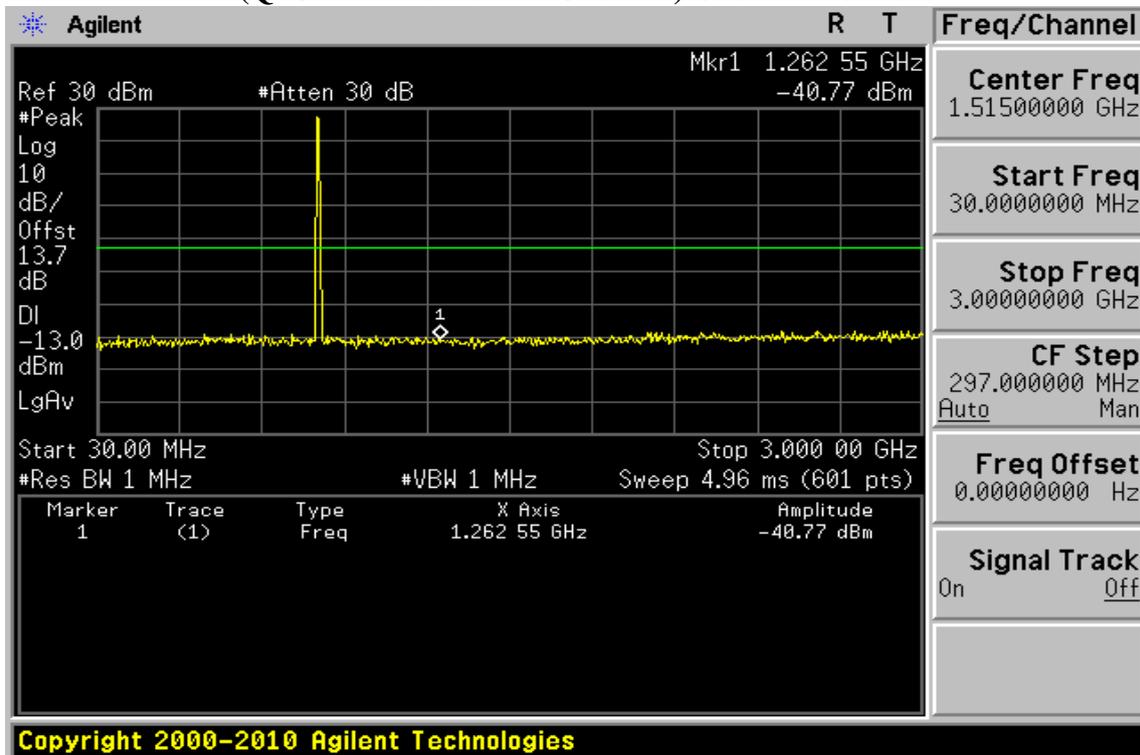


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Figure 9-109: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

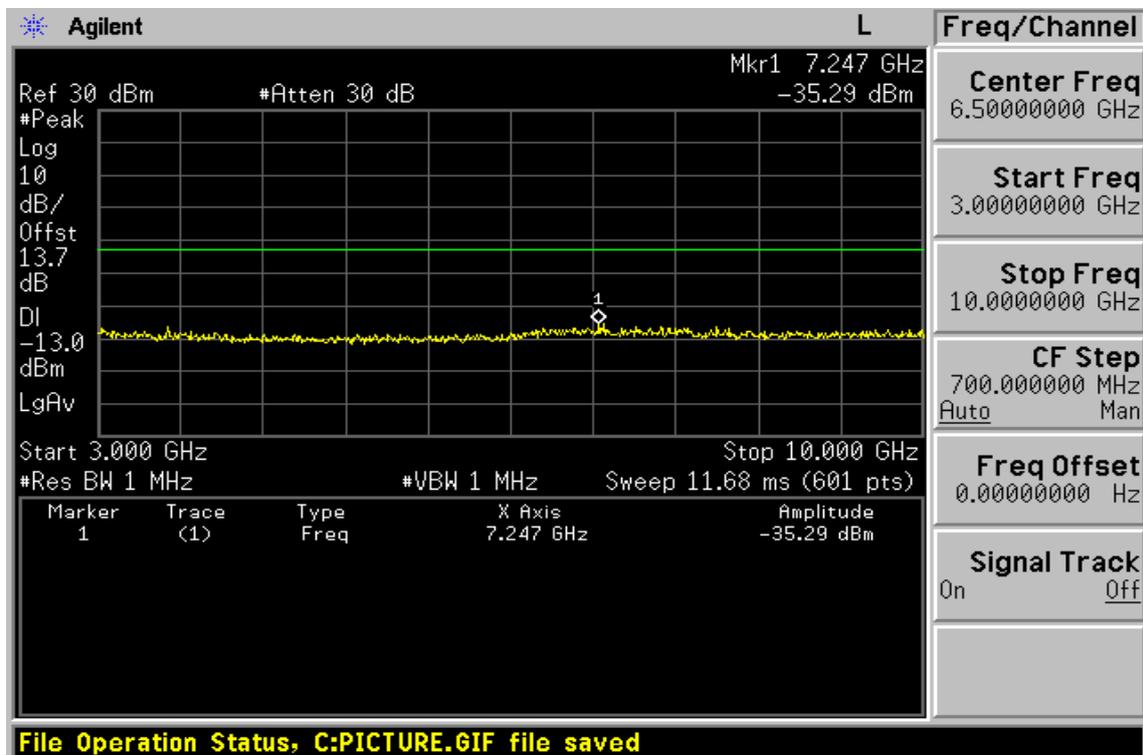
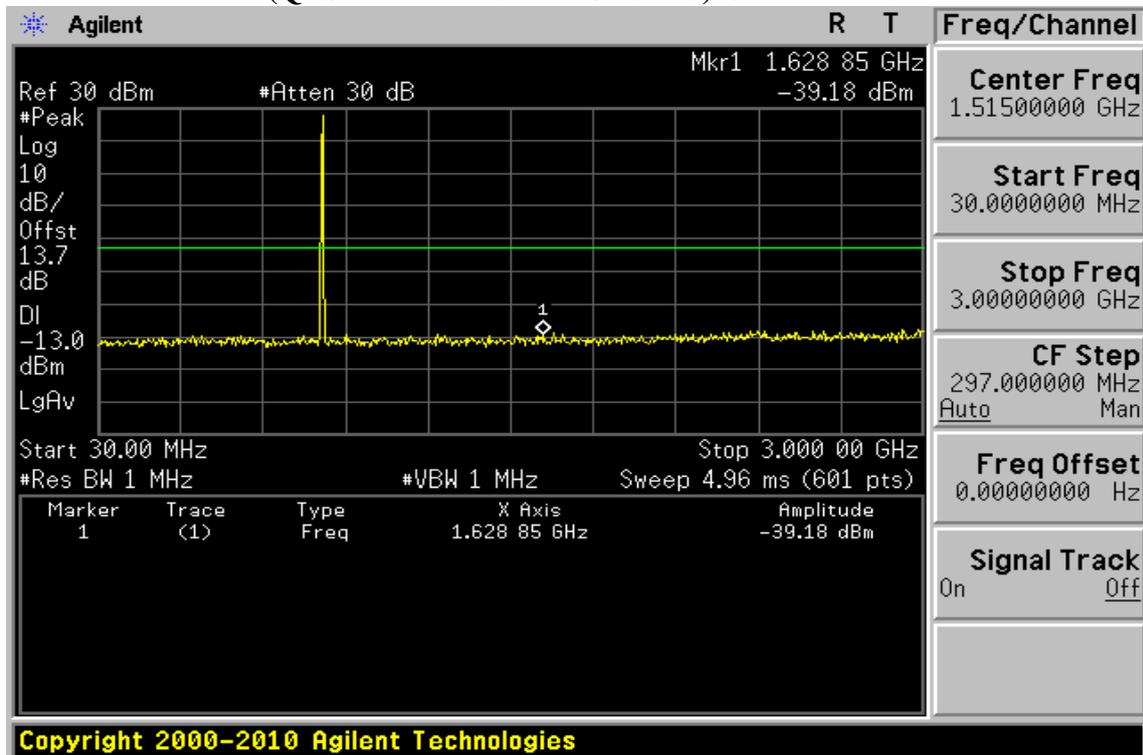


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Figure 9-110: Out of Band emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

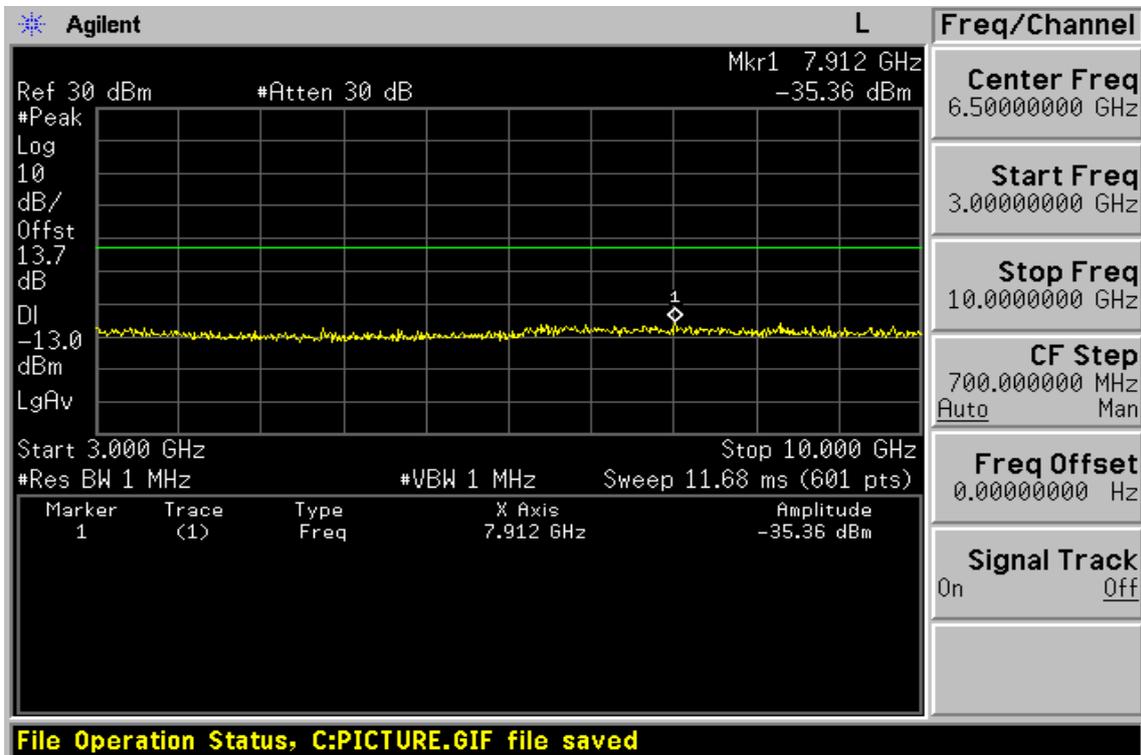
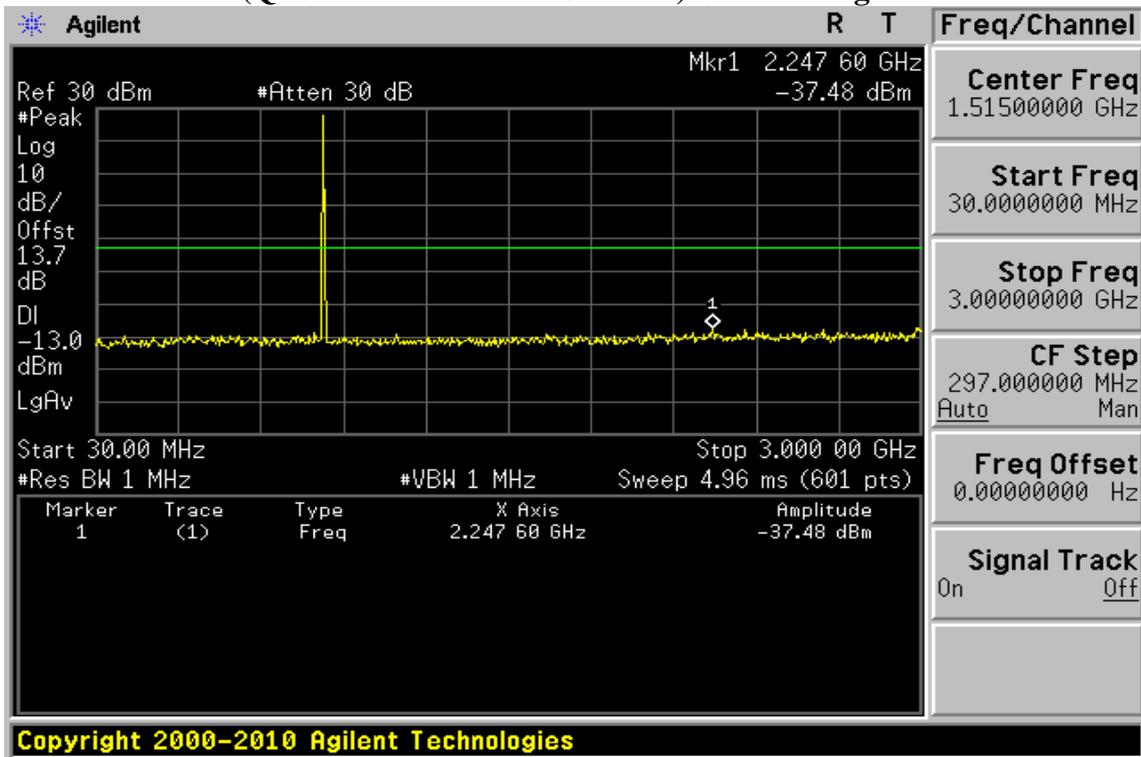


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Figure 9-111: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –3MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :825.5 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1651.00	H	---	-13.00	---
2476.50	H	---	-13.00	---
3302.00	H	---	-13.00	---
4127.50	H	---	-13.00	---
4953.00	H	---	-13.00	---
5778.50	H	---	-13.00	---
6604.00	H	---	-13.00	---
7429.50	H	---	-13.00	---
8255.00	H	---	-13.00	---
8635.00	S	-35.61	-13.00	22.61

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.00	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7247.00	S	-35.29	-13.00	22.29
7528.50	H	---	-13.00	---
8365.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :825.3 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1650.60	H	---	-13.00	---
2475.90	H	---	-13.00	---
3301.20	H	---	-13.00	---
4126.50	H	---	-13.00	---
4951.80	H	---	-13.00	---
5777.10	H	---	-13.00	---
6602.40	H	---	-13.00	---
7427.70	H	---	-13.00	---
7912.00	S	-35.36	-13.00	22.36
8253.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “” : denotes Spurious Freque

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Figure 9-112: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

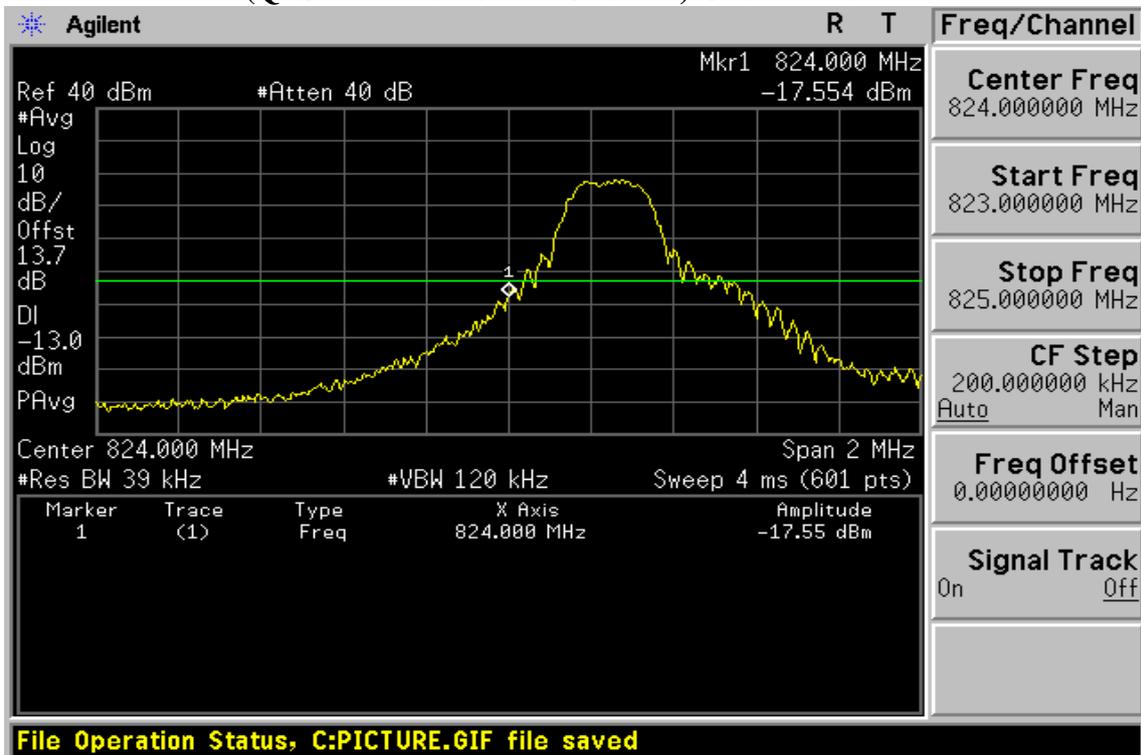
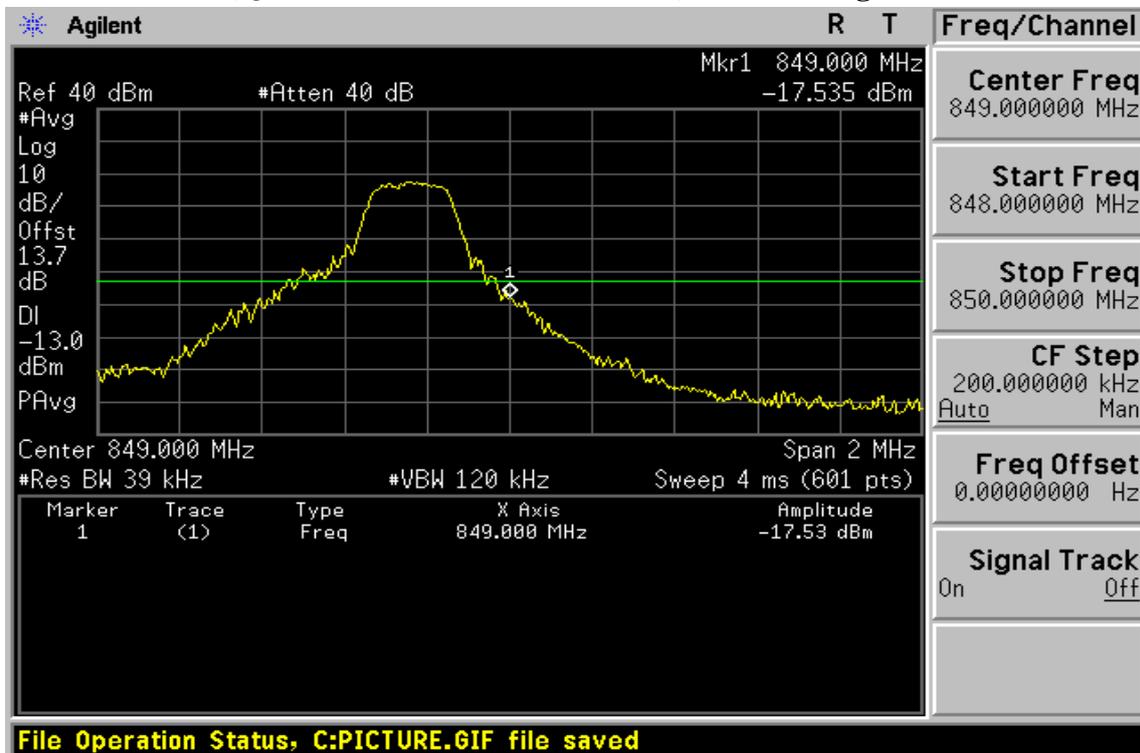


Figure 9-113: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 14) Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14)

Test Mode 3MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-17.55	-13.00	4.55
849.000	-17.53	-13.00	4.53

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Figure 9-114: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Lowest

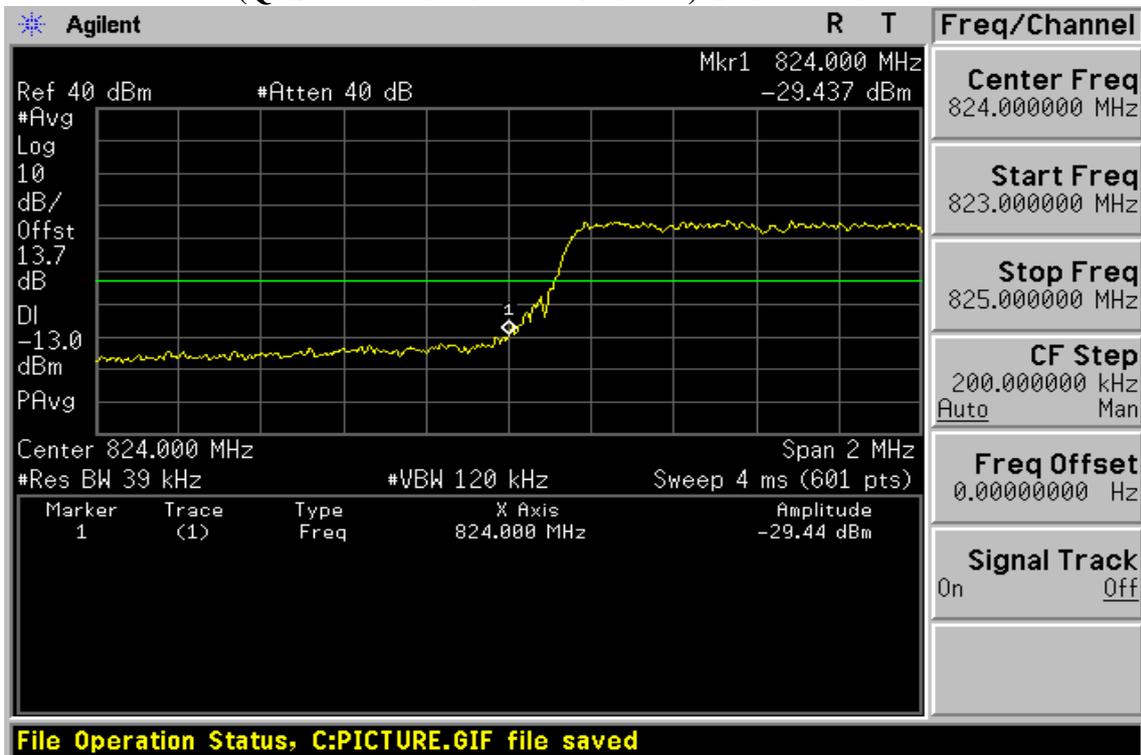
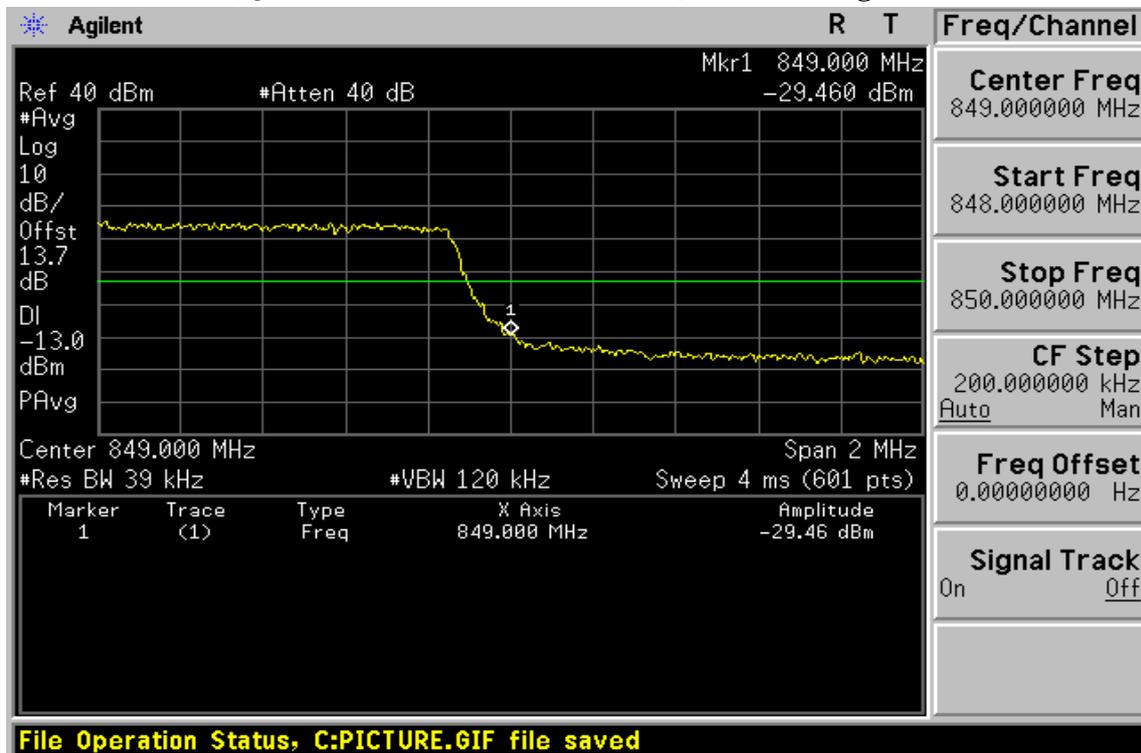


Figure 9-115: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 5

(QPSK RB Number: 15 Offset: 0)

Test Mode 3MHz BW LTE-Band 5 Engineer :Nick

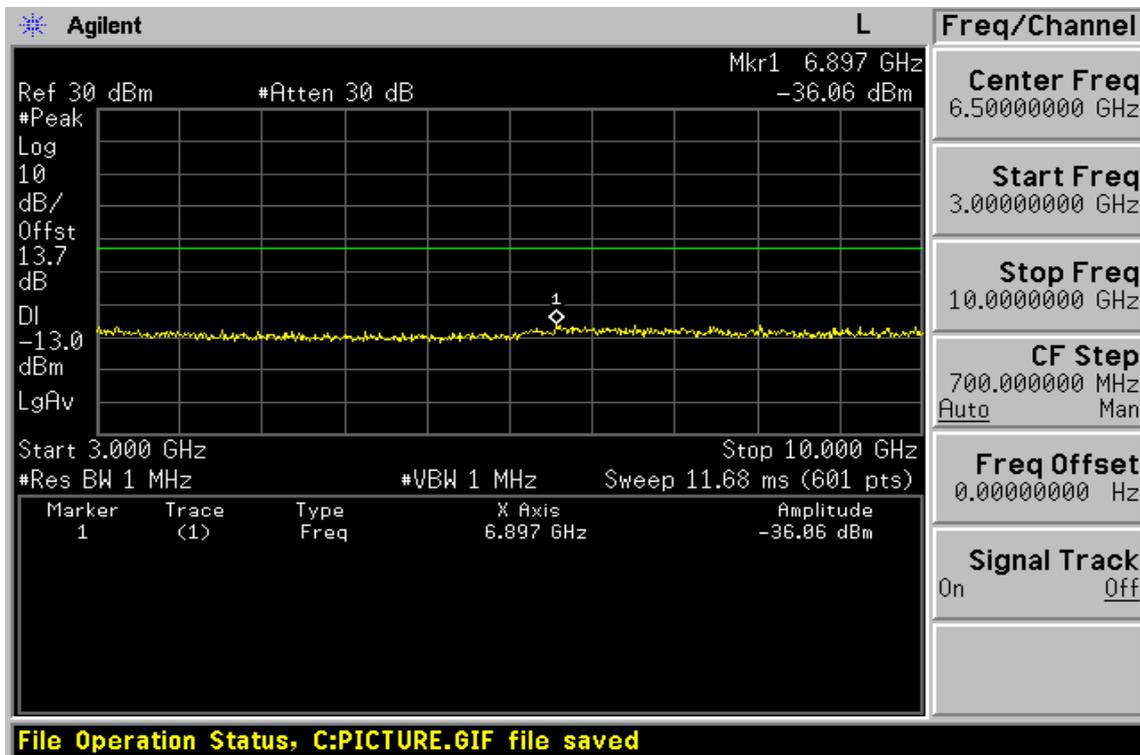
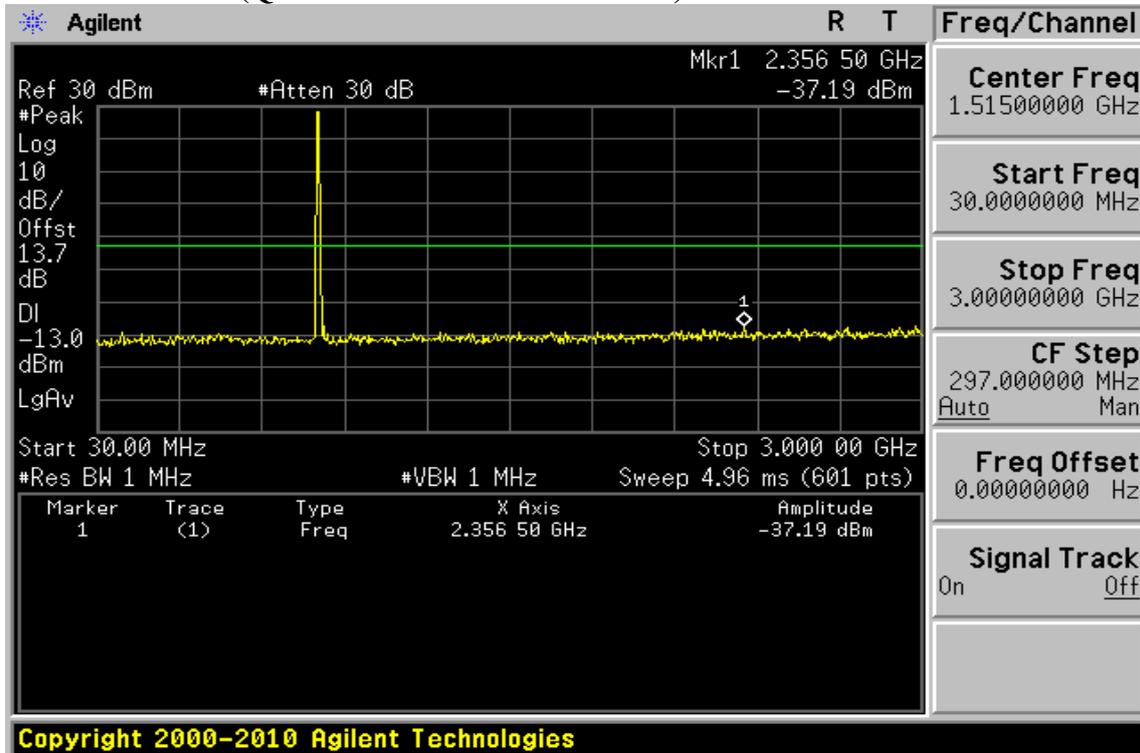
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-29.44	-13.00	16.44
849.000	-29.46	-13.00	16.46

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Figure 9-116: Out of Band emission at antenna terminals–5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

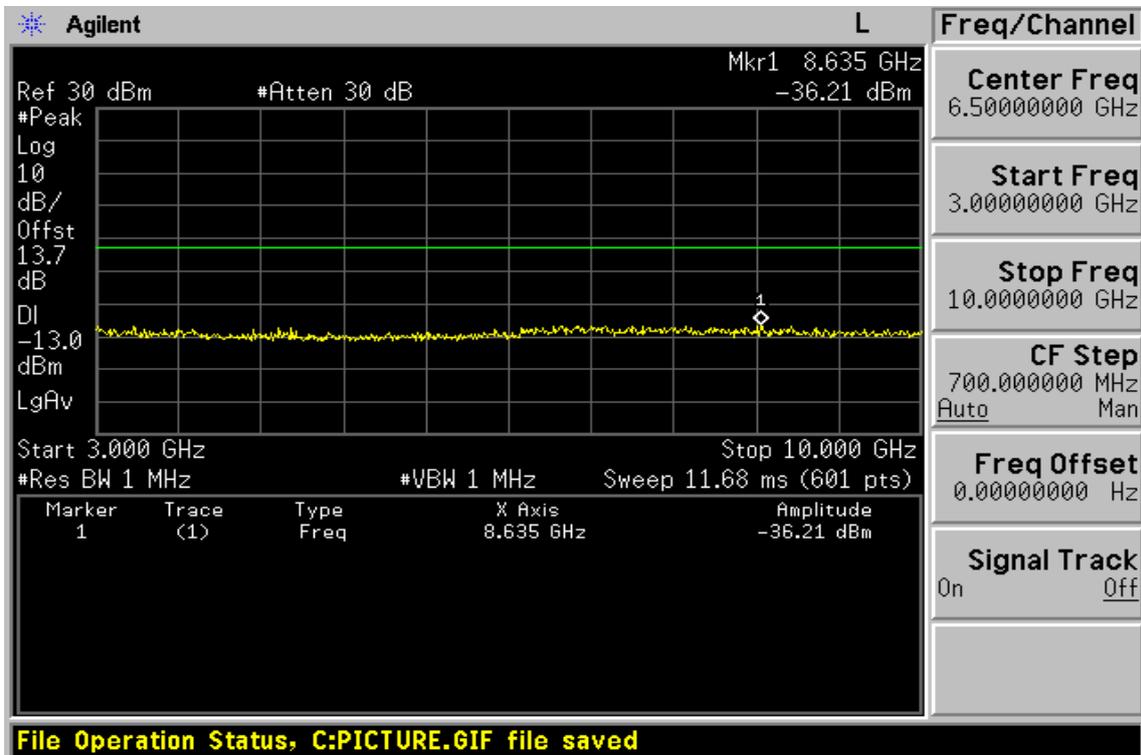
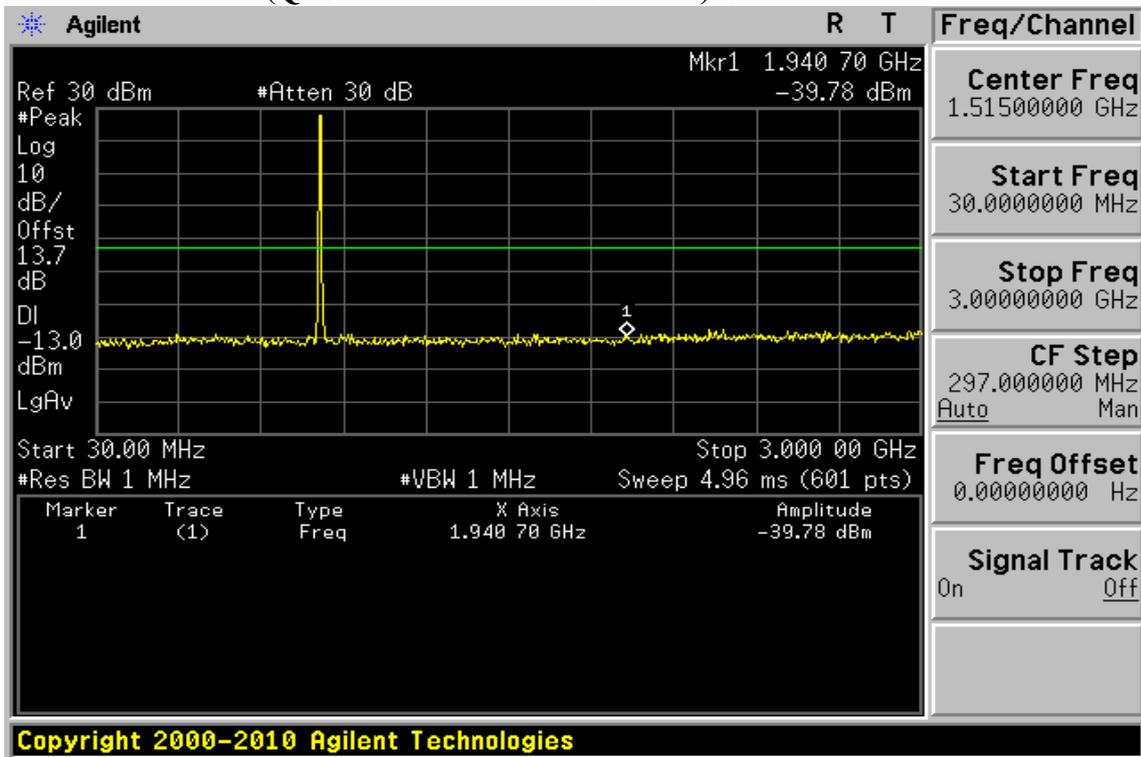


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Figure 9-117: Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

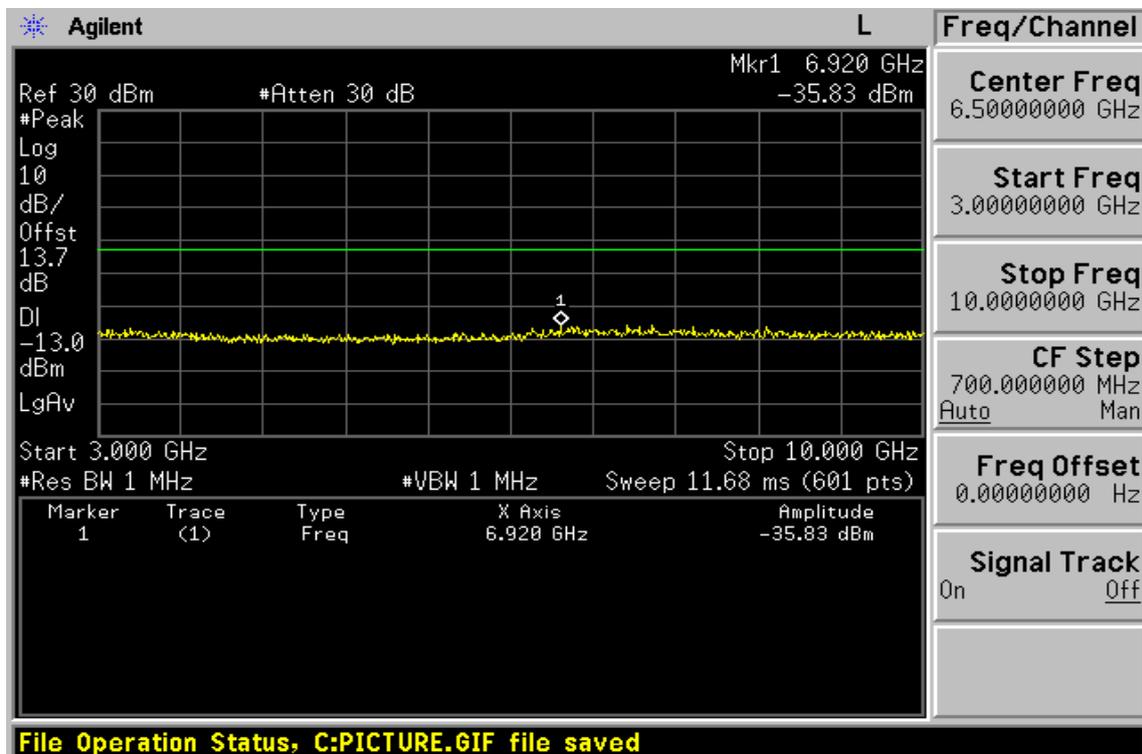
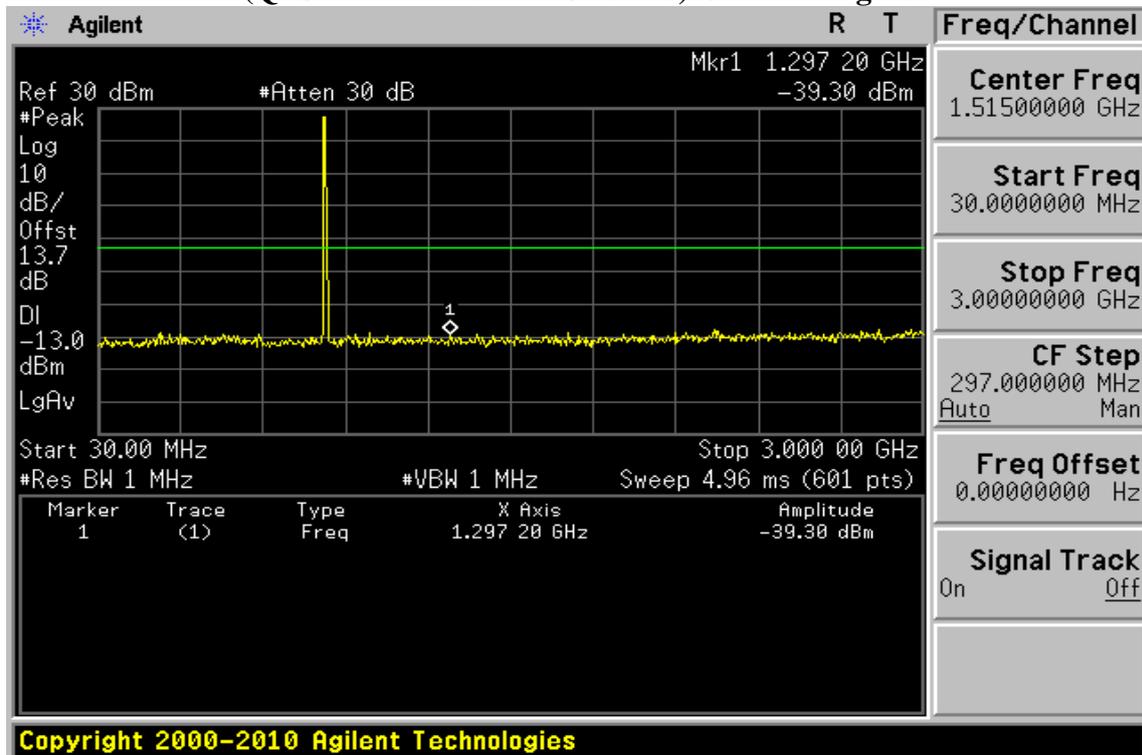


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Figure 9-118: Out of Band emission at antenna terminals–5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –5MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :826.5 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1653.00	H	---	-13.00	---
2479.50	H	---	-13.00	---
3306.00	H	---	-13.00	---
4132.50	H	---	-13.00	---
4959.00	H	---	-13.00	---
5785.50	H	---	-13.00	---
6612.00	H	---	-13.00	---
6897.00	S	-36.06	-13.00	23.06
7438.50	H	---	-13.00	---
8265.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.00	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7528.50	H	---	-13.00	---
8365.00	H	---	-13.00	---
8635.00	S	-36.21	-13.00	23.21

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :846.5 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.00	H	---	-13.00	---
2539.50	H	---	-13.00	---
3386.00	H	---	-13.00	---
4232.50	H	---	-13.00	---
5079.00	H	---	-13.00	---
5925.50	H	---	-13.00	---
6772.00	H	---	-13.00	---
6920.00	S	-35.83	-13.00	22.83
7618.50	H	---	-13.00	---
8465.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
 "" : denotes Spurious Freque

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Figure 9-119: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

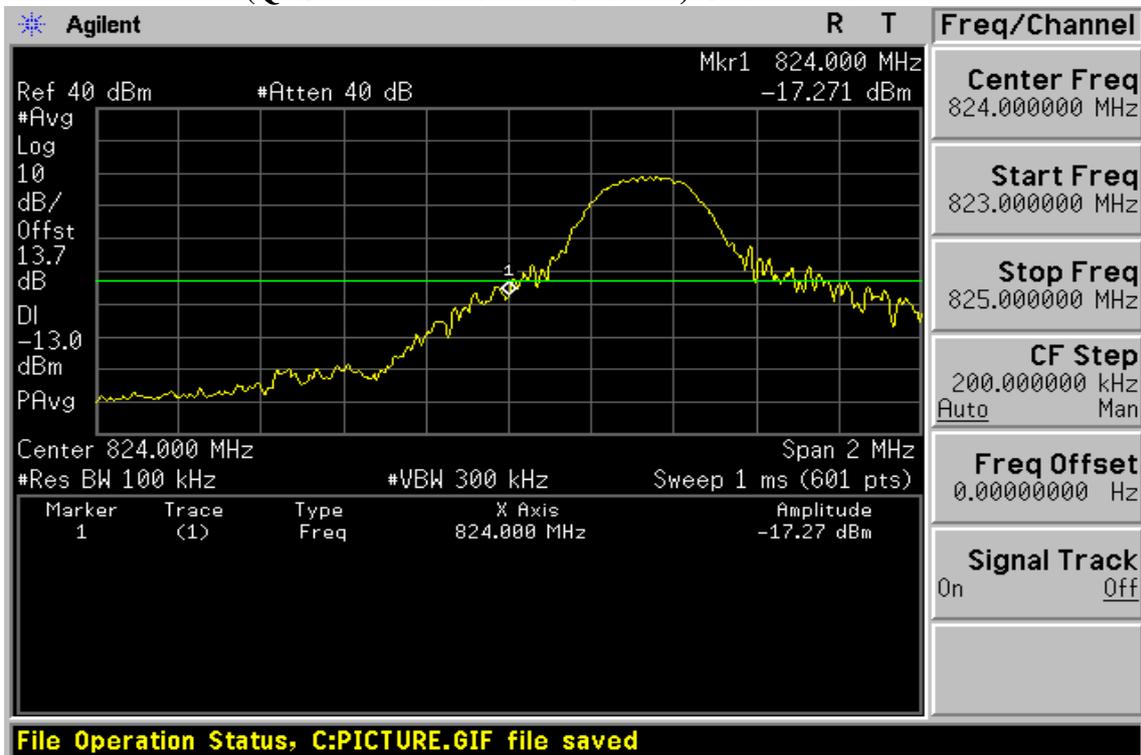
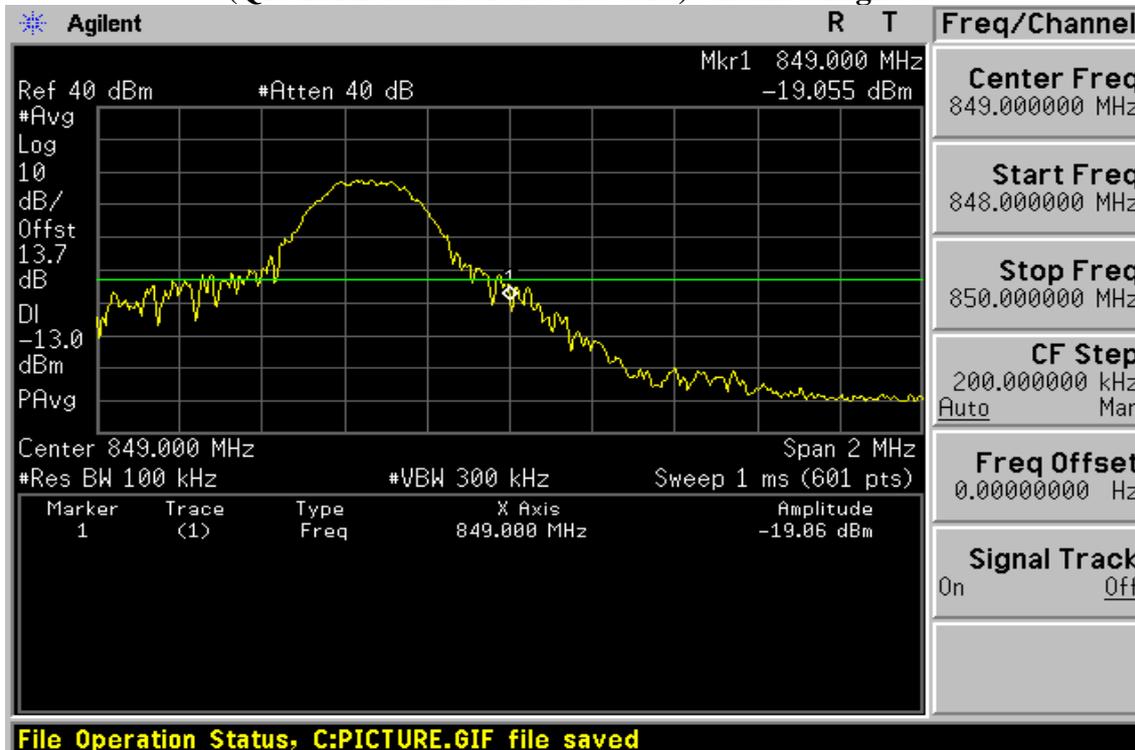


Figure 9-120: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)

Test Mode 5MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-17.27	-13.00	4.27
849.000	-19.06	-13.00	6.06

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Figure 9-121: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Lowest

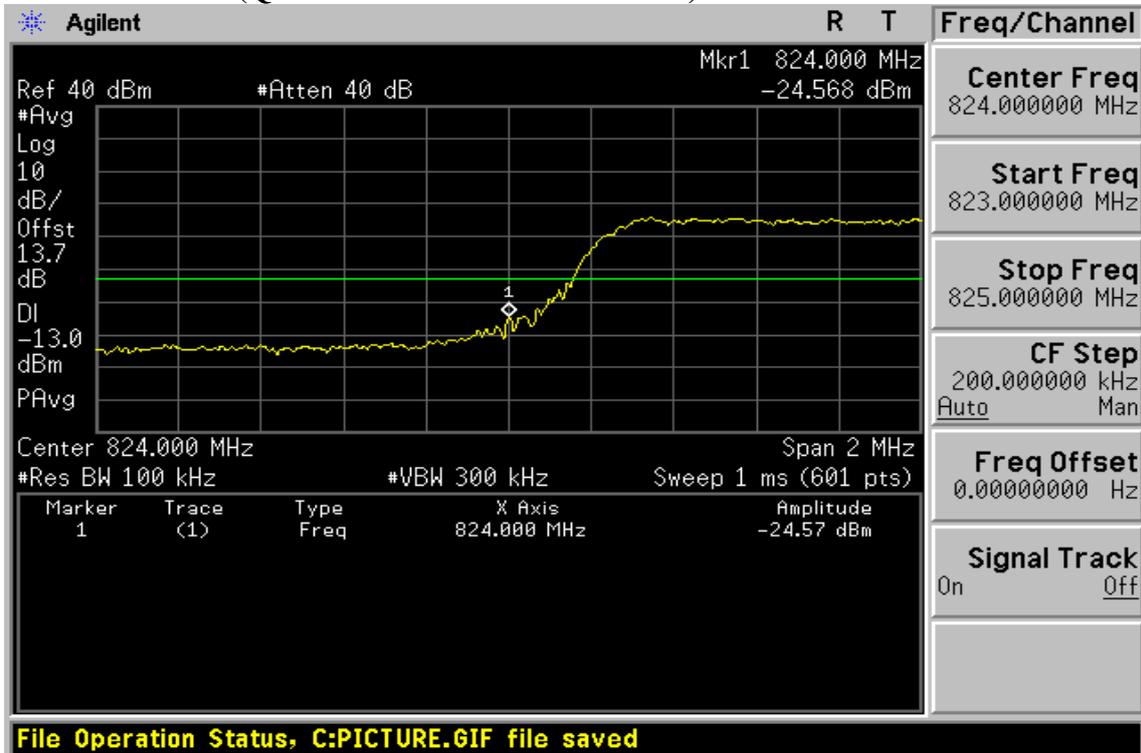
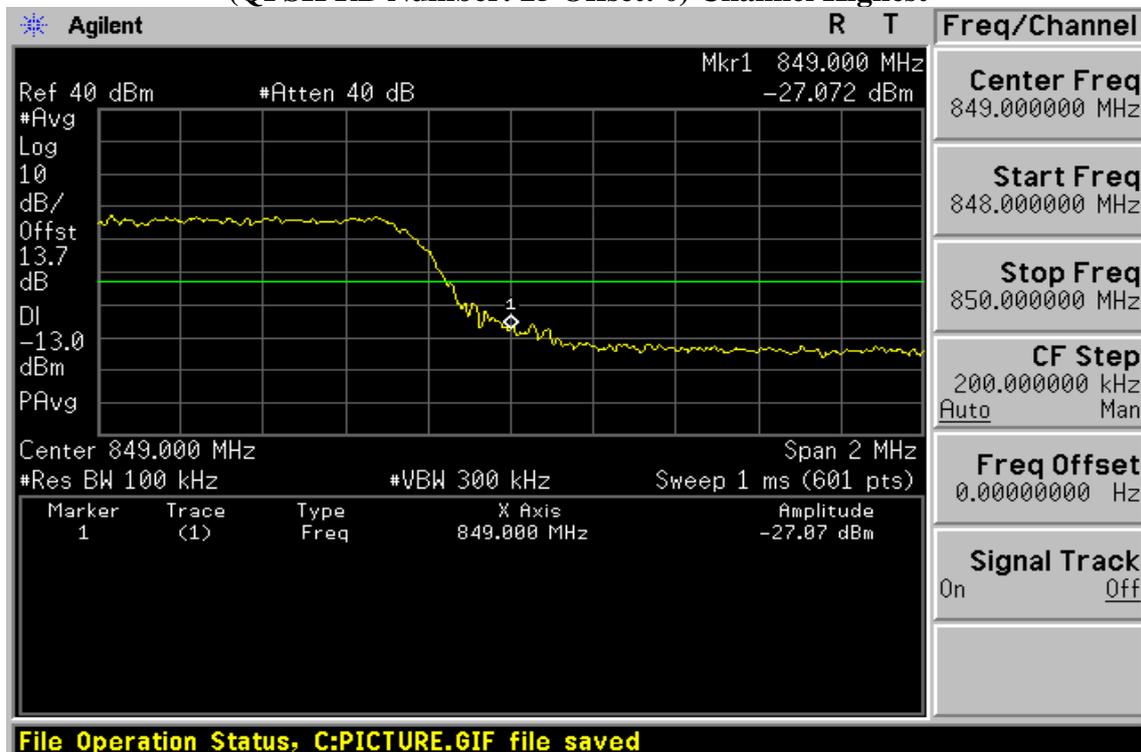


Figure 9-122: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 5

(QPSK RB Number: 25 Offset: 0)

Test Mode 5MHz BW LTE-Band 5 Engineer :Nick

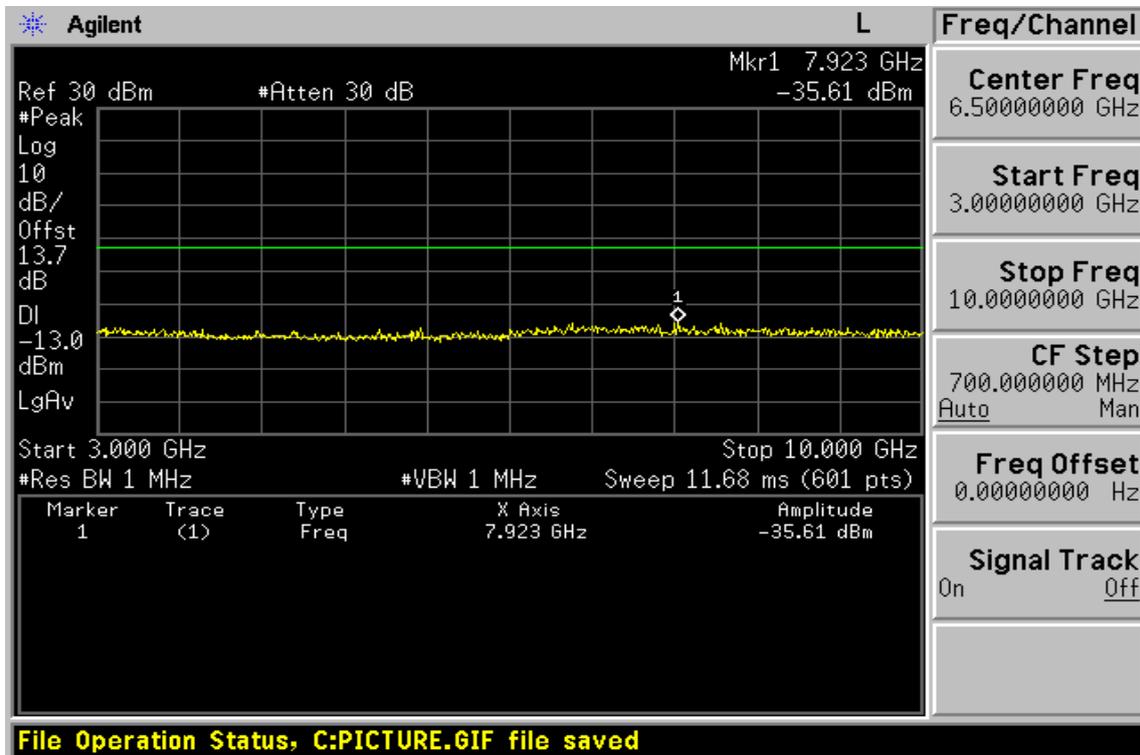
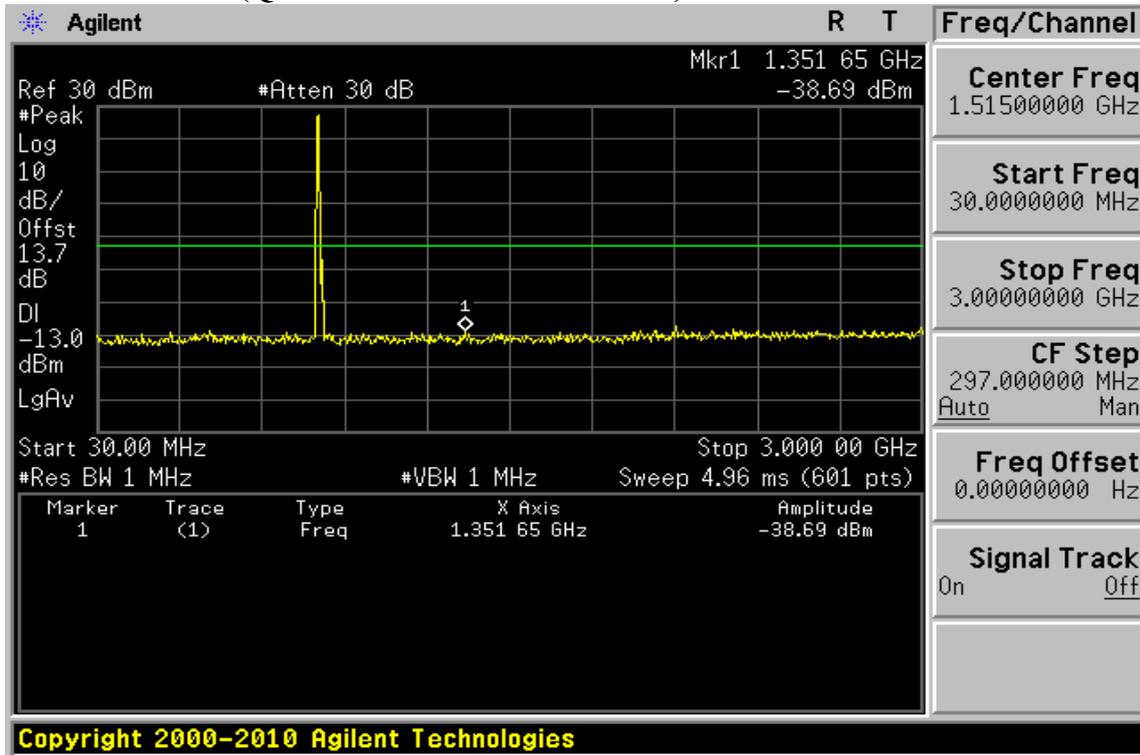
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-24.57	-13.00	11.57
849.000	-27.07	-13.00	14.07

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Figure 9-123: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

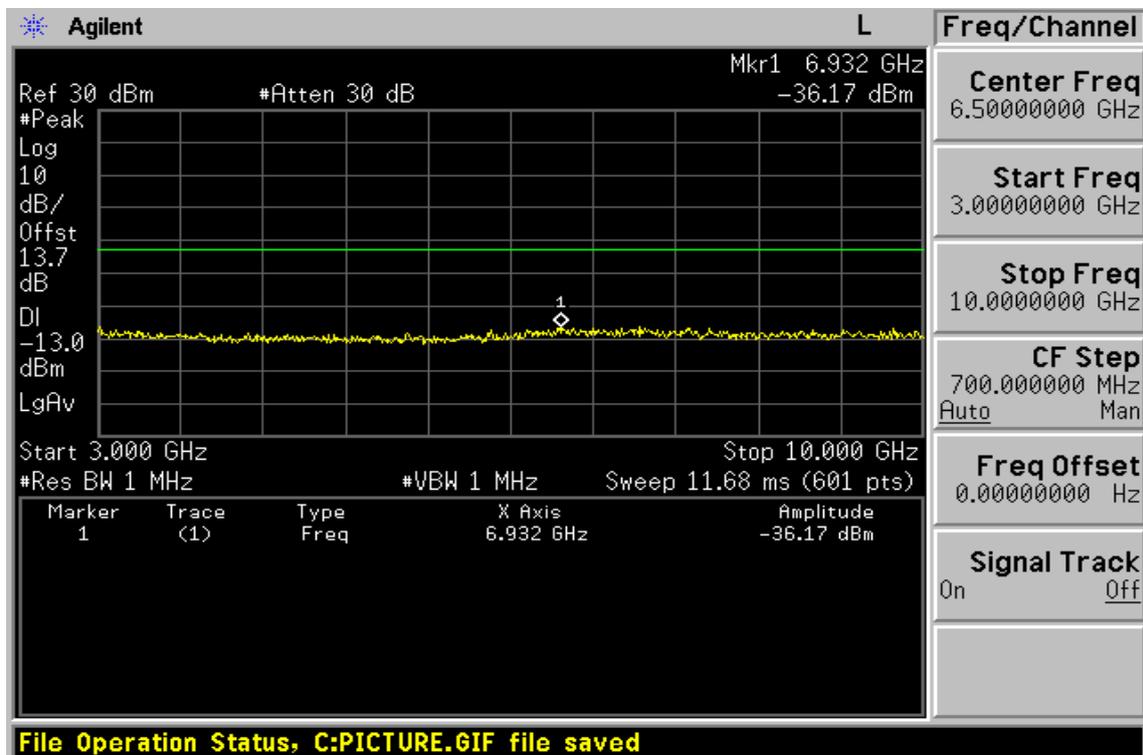
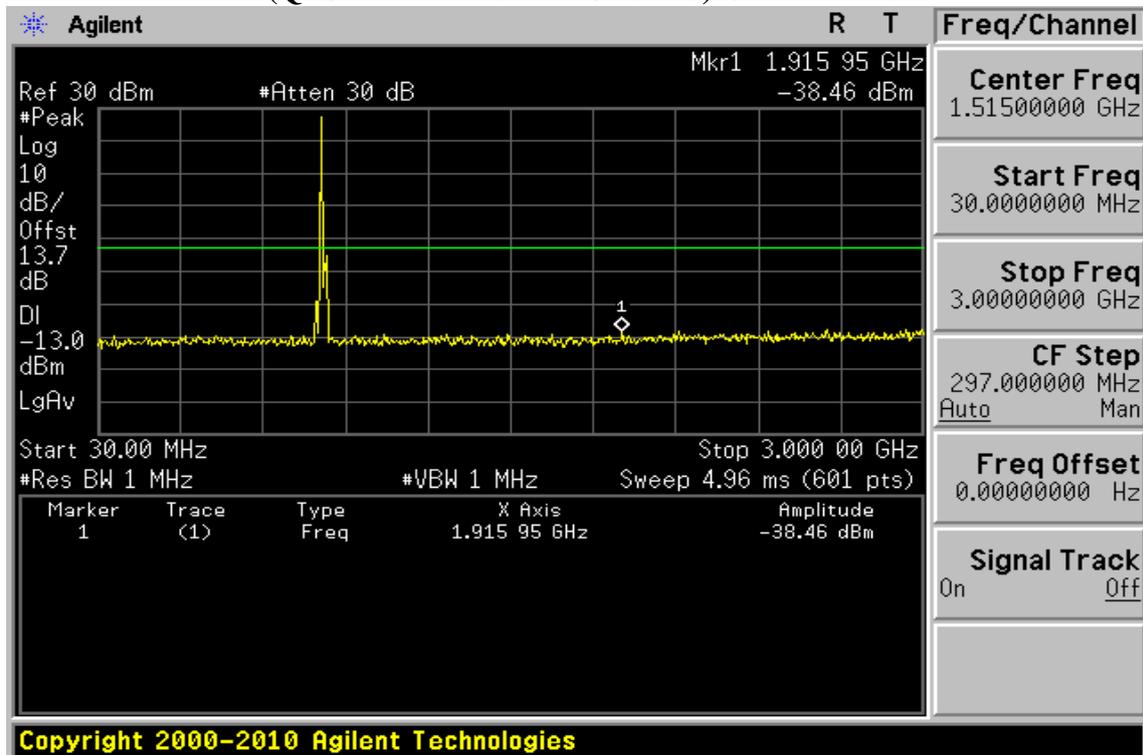


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Figure 9-124: Out of Band emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

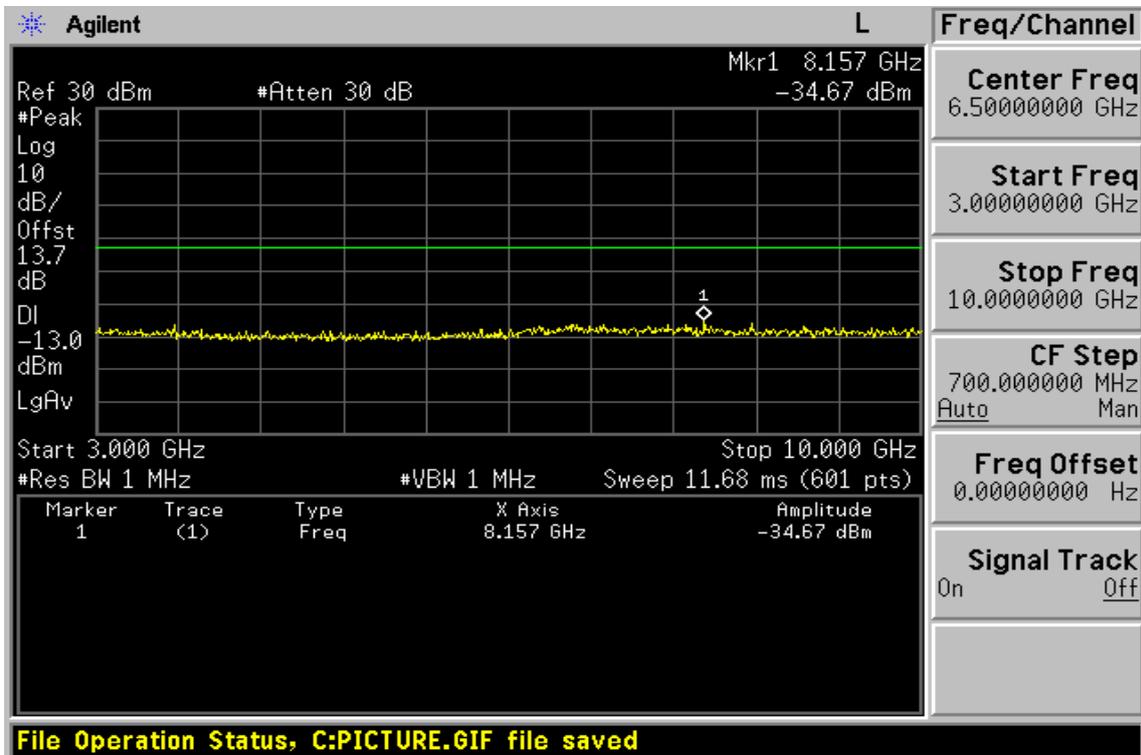
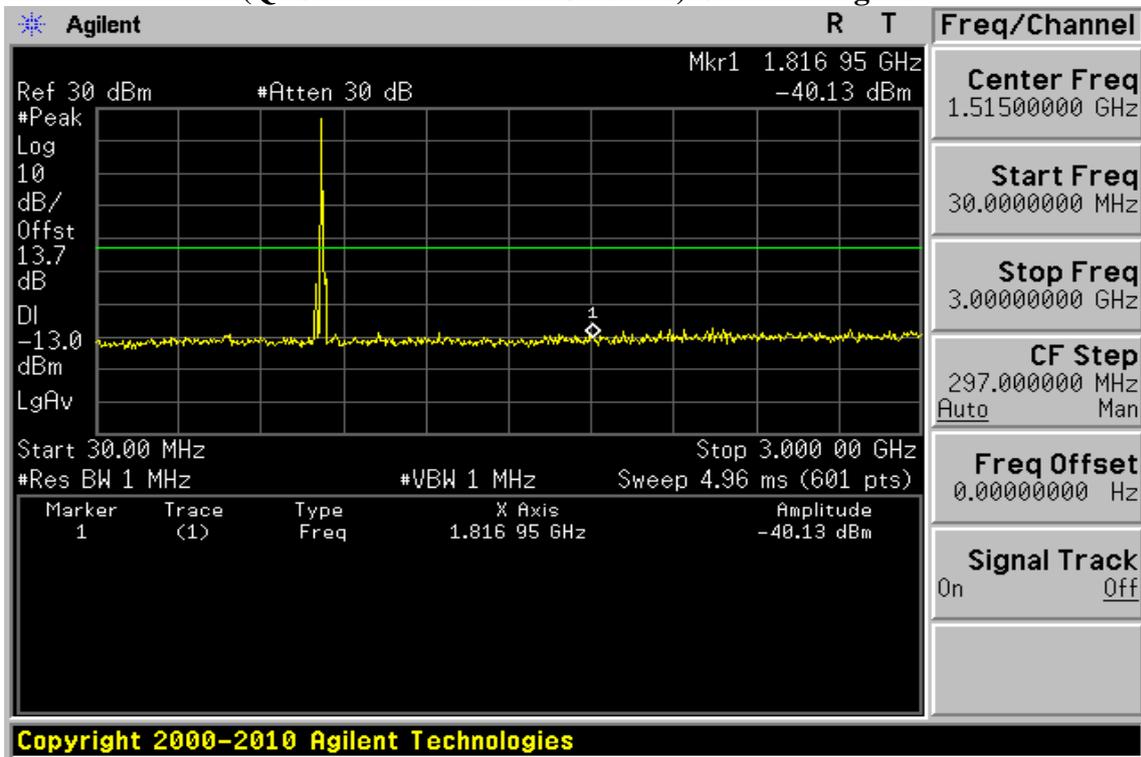


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Figure 9-125: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –10MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :829.0 MHz Engineer :Nick
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1658.00	H	---	-13.00	---
2487.00	H	---	-13.00	---
3316.00	H	---	-13.00	---
4145.00	H	---	-13.00	---
4974.00	H	---	-13.00	---
5803.00	H	---	-13.00	---
6632.00	H	---	-13.00	---
7461.00	H	---	-13.00	---
7923.00	S	-35.61	-13.00	22.61
8290.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz Engineer :Nick
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.00	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
6932.00	S	-36.17	-13.00	23.17
7528.50	H	---	-13.00	---
8365.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Fundamental Frequency :844.0 MHz Engineer :Nick
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1688.00	H	---	-13.00	---
2532.00	H	---	-13.00	---
3376.00	H	---	-13.00	---
4220.00	H	---	-13.00	---
5064.00	H	---	-13.00	---
5908.00	H	---	-13.00	---
6752.00	H	---	-13.00	---
7596.00	H	---	-13.00	---
8157.00	S	-34.67	-13.00	21.67
8440.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
 "" : denotes Spurious Freque

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Figure 9-126: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

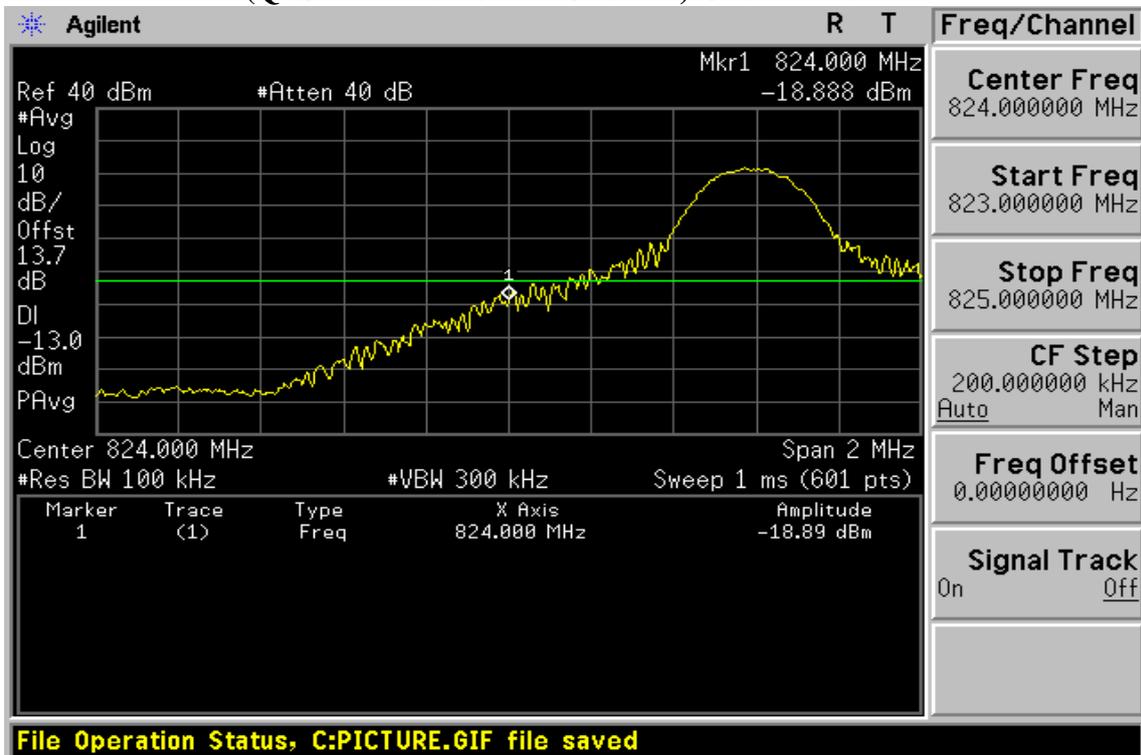
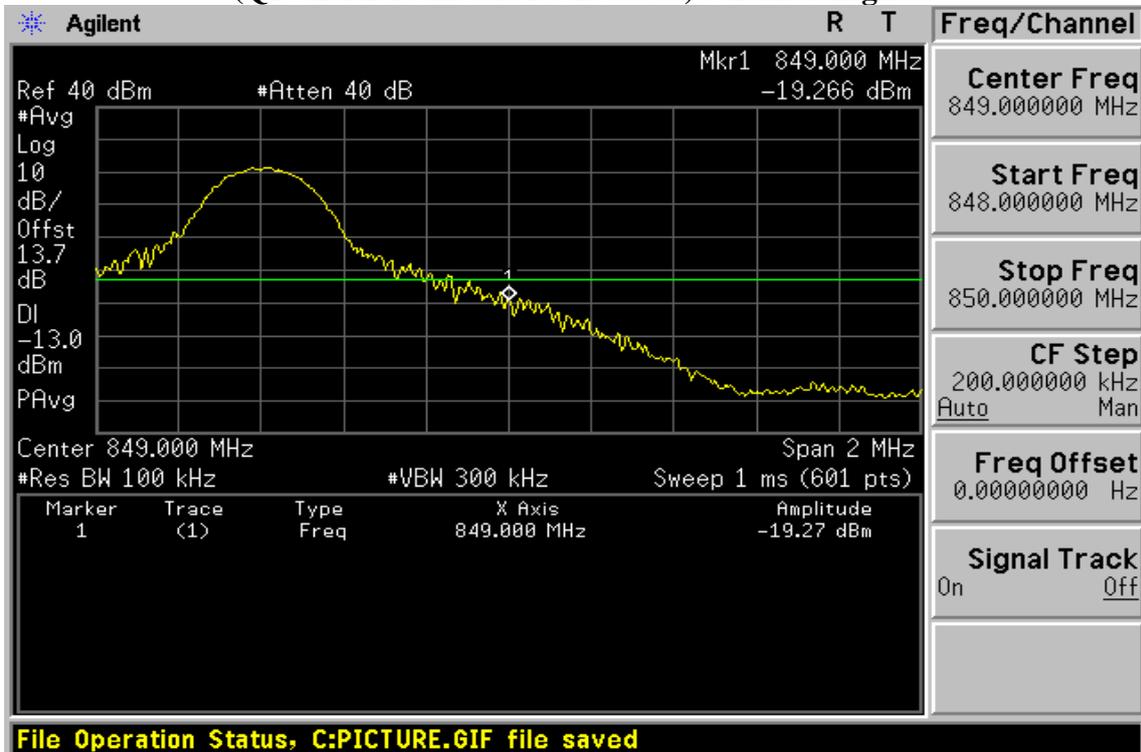


Figure 9-127: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Figure 9-128 Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Lowest

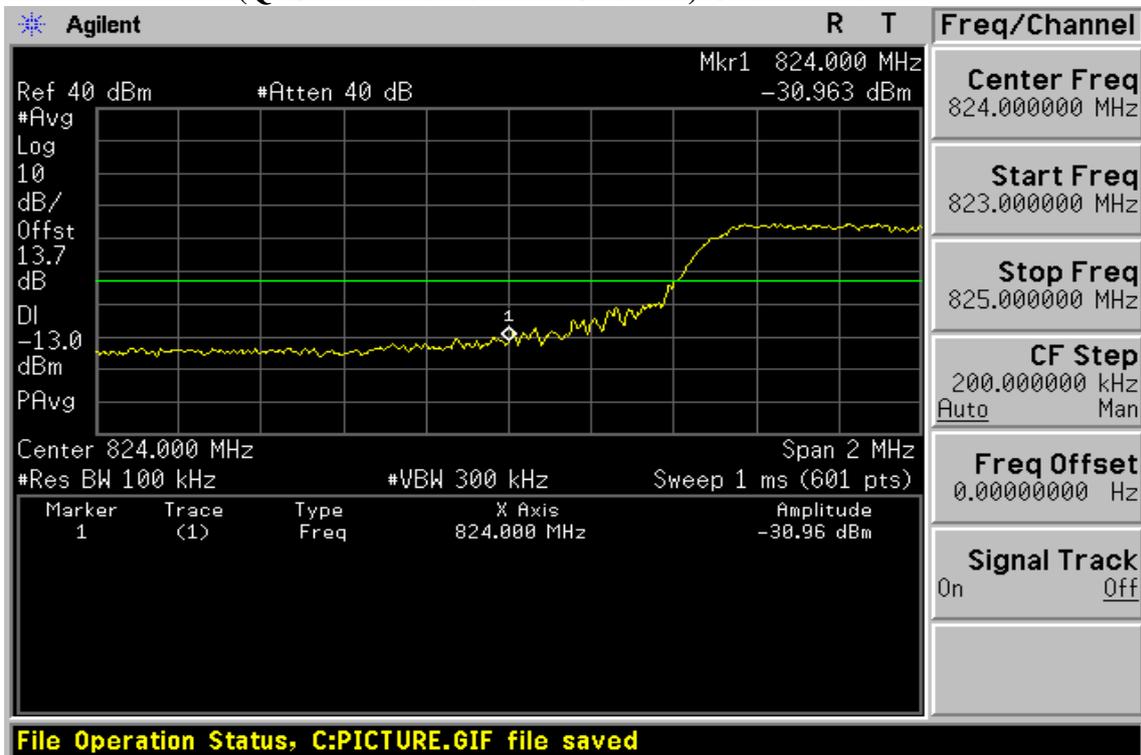
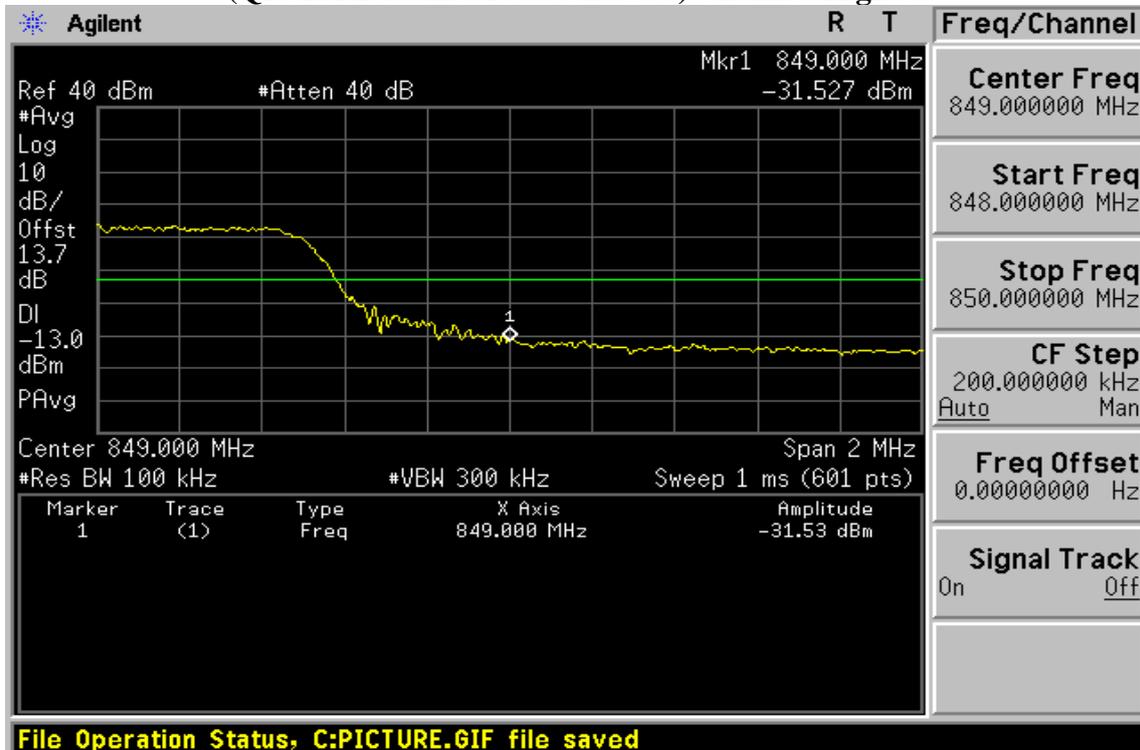


Figure 9-129: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 5

(QPSK RB Number: 50 Offset: 0)

Test Mode 10MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-30.96	-13.00	17.96
849.000	-31.53	-13.00	18.53

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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

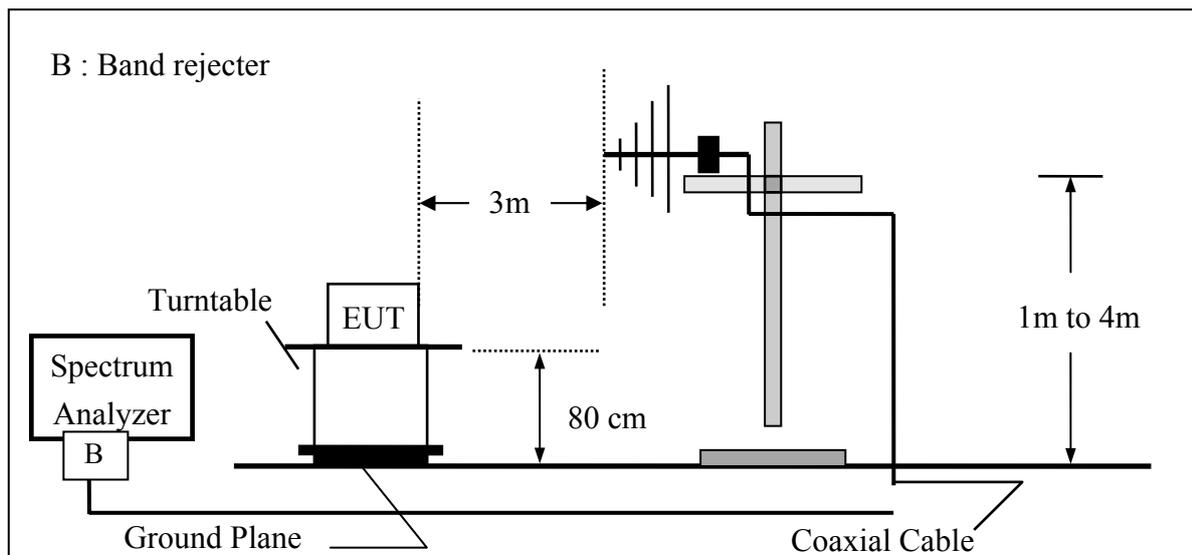
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz

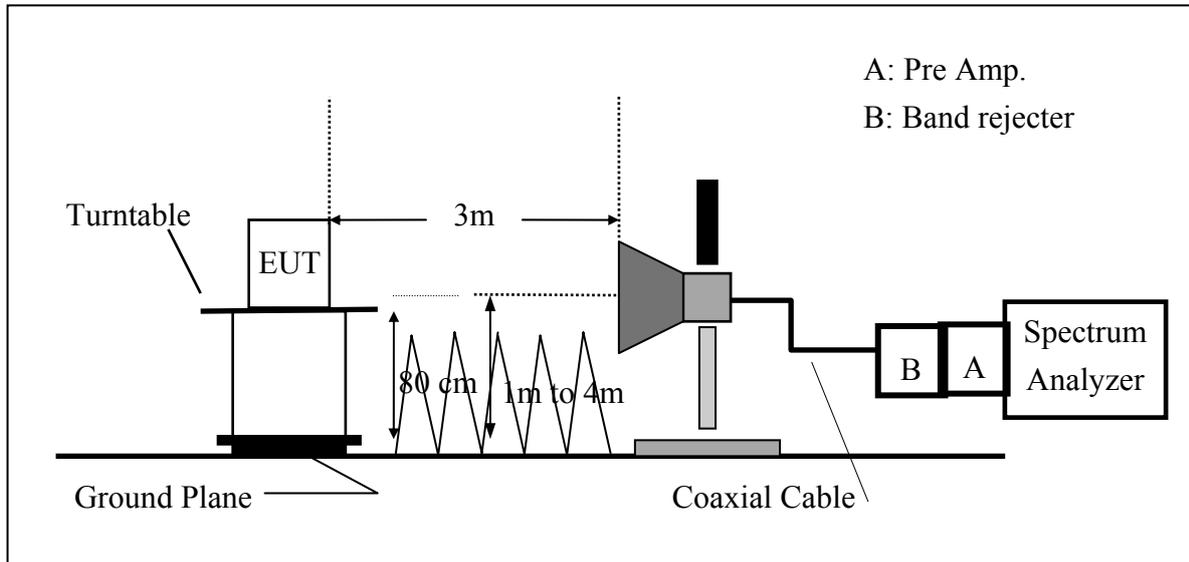


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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$ERP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$EIRP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 436

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-65.70	-52.86	-12.00	-0.84	-13.00	-52.70
89.17	S	-71.63	-70.02	-0.43	-1.18	-13.00	-58.63
338.46	S	-71.77	-73.80	3.99	-1.95	-13.00	-58.77
655.65	S	-66.74	-67.98	3.93	-2.69	-13.00	-53.74
769.14	S	-45.01	-45.82	3.70	-2.89	-13.00	-32.01
938.89	S	-59.62	-59.68	3.38	-3.32	-13.00	-46.62
1648.40	H	-62.08	-61.22	3.56	-4.42	-13.00	-49.08
2472.60	H	-56.63	-55.36	4.18	-5.45	-13.00	-43.63
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---“ : denotes Noise Floor..

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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-64.92	-52.08	-12.00	-0.84	-13.00	-51.92
203.63	S	-76.45	-78.74	3.81	-1.53	-13.00	-63.45
447.10	S	-69.17	-70.82	3.85	-2.21	-13.00	-56.17
636.25	S	-70.28	-71.47	3.86	-2.67	-13.00	-57.28
769.14	S	-49.75	-50.56	3.70	-2.89	-13.00	-36.75
939.86	S	-59.36	-59.42	3.38	-3.32	-13.00	-46.36
1648.40	H	-62.08	-61.22	3.56	-4.42	-13.00	-49.08
2472.60	H	-52.14	-50.87	4.18	-5.45	-13.00	-39.14
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	S	-68.02	-55.25	-11.87	-0.90	-13.00	-55.02
318.09	S	-71.58	-73.52	3.85	-1.91	-13.00	-58.58
530.52	S	-70.46	-71.94	3.91	-2.44	-13.00	-57.46
648.86	S	-65.19	-66.44	3.93	-2.68	-13.00	-52.19
770.11	S	-45.89	-46.71	3.71	-2.89	-13.00	-32.89
948.59	S	-62.49	-62.50	3.34	-3.33	-13.00	-49.49
1673.20	H	-62.77	-61.81	3.49	-4.45	-13.00	-49.77
2509.80	H	-59.32	-58.10	4.28	-5.49	-13.00	-46.32
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	S	-65.88	-53.11	-11.87	-0.90	-13.00	-52.88
242.43	S	-76.85	-78.47	3.30	-1.68	-13.00	-63.85
430.61	S	-70.99	-72.73	3.91	-2.16	-13.00	-57.99
595.51	S	-69.91	-70.97	3.66	-2.61	-13.00	-56.91
771.08	S	-48.34	-49.15	3.71	-2.89	-13.00	-35.34
938.89	S	-60.85	-60.91	3.38	-3.32	-13.00	-47.85
1673.20	H	-63.92	-62.97	3.49	-4.45	-13.00	-50.92
2509.80	H	-54.45	-53.24	4.28	-5.49	-13.00	-41.45
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
42.61	S	-67.82	-55.01	-11.96	-0.86	-13.00	-54.82
307.42	S	-71.84	-73.73	3.78	-1.89	-13.00	-58.84
596.48	S	-68.37	-69.42	3.66	-2.61	-13.00	-55.37
776.90	S	-47.30	-48.11	3.71	-2.90	-13.00	-34.30
871.96	S	-60.64	-61.14	3.68	-3.18	-13.00	-47.64
938.89	S	-63.06	-63.12	3.38	-3.32	-13.00	-50.06
1697.60	H	-62.25	-61.21	3.43	-4.48	-13.00	-49.25
2546.40	H	-58.09	-56.92	4.37	-5.54	-13.00	-45.09
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-66.93	-54.09	-12.00	-0.84	-13.00	-53.93
207.51	S	-70.92	-73.19	3.82	-1.54	-13.00	-57.92
449.04	S	-70.25	-71.88	3.85	-2.22	-13.00	-57.25
509.18	S	-70.94	-72.51	3.95	-2.38	-13.00	-57.94
770.11	S	-48.18	-48.99	3.71	-2.89	-13.00	-35.18
939.86	S	-60.32	-60.38	3.38	-3.32	-13.00	-47.32
1697.60	H	-64.23	-63.19	3.43	-4.48	-13.00	-51.23
2546.40	H	-57.94	-56.77	4.37	-5.54	-13.00	-44.94
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
43.58	S	-65.47	-54.83	-9.77	-0.88	-13.00	-52.47
257.95	S	-70.87	-74.50	5.36	-1.74	-13.00	-57.87
335.55	S	-69.62	-73.79	6.12	-1.95	-13.00	-56.62
435.46	S	-69.77	-73.64	6.04	-2.18	-13.00	-56.77
646.92	S	-64.88	-68.27	6.07	-2.68	-13.00	-51.88
773.02	S	-52.05	-55.01	5.86	-2.90	-13.00	-39.05
3700.40	H	-48.19	-50.51	9.13	-6.80	-13.00	-35.19
5550.60	H	-40.29	-42.39	10.50	-8.40	-13.00	-27.29
7400.80	H	-44.51	-46.52	11.80	-9.78	-13.00	-31.51
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

$EIRP (dBm) = SG\ Level(dBm) + Antenna\ Gain(dBi) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-73.41	-73.73	1.51	-1.20	-13.00	-60.41
239.52	S	-68.01	-71.80	5.46	-1.67	-13.00	-55.01
444.19	S	-68.31	-72.12	6.01	-2.20	-13.00	-55.31
594.54	S	-66.98	-70.19	5.82	-2.61	-13.00	-53.98
774.96	S	-54.38	-57.34	5.86	-2.90	-13.00	-41.38
941.80	S	-64.20	-66.40	5.52	-3.32	-13.00	-51.20
3700.40	H	-50.17	-52.50	9.13	-6.80	-13.00	-37.17
5550.60	H	-47.60	-49.70	10.50	-8.40	-13.00	-34.60
7400.80	H	-46.95	-48.97	11.80	-9.78	-13.00	-33.95
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	S	-64.96	-54.64	-9.39	-0.93	-13.00	-51.96
240.49	S	-71.99	-75.75	5.44	-1.67	-13.00	-58.99
447.10	S	-70.86	-74.66	6.00	-2.21	-13.00	-57.86
646.92	S	-64.71	-68.10	6.07	-2.68	-13.00	-51.71
769.14	S	-54.09	-57.06	5.85	-2.89	-13.00	-41.09
942.77	S	-63.70	-65.89	5.52	-3.33	-13.00	-50.70
3760.00	H	-46.77	-49.08	9.16	-6.85	-13.00	-33.77
5640.00	H	-44.13	-46.16	10.50	-8.47	-13.00	-31.13
7520.00	H	-45.13	-47.18	11.92	-9.87	-13.00	-32.13
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
87.23	S	-73.59	-73.71	1.27	-1.15	-13.00	-60.59
243.40	S	-67.46	-71.23	5.45	-1.68	-13.00	-54.46
440.31	S	-68.68	-72.52	6.03	-2.19	-13.00	-55.68
641.10	S	-63.44	-66.81	6.04	-2.67	-13.00	-50.44
773.02	S	-55.00	-57.96	5.86	-2.90	-13.00	-42.00
946.65	S	-64.06	-66.23	5.50	-3.33	-13.00	-51.06
3760.00	H	-54.43	-56.74	9.16	-6.85	-13.00	-41.43
5640.00	H	-48.03	-50.05	10.50	-8.47	-13.00	-35.03
7520.00	H	-50.33	-52.38	11.92	-9.87	-13.00	-37.33
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	S	-65.14	-54.81	-9.39	-0.93	-13.00	-52.14
244.37	S	-71.57	-75.34	5.46	-1.69	-13.00	-58.57
378.23	S	-70.91	-75.07	6.19	-2.03	-13.00	-57.91
575.14	S	-69.23	-72.59	5.91	-2.56	-13.00	-56.23
772.05	S	-54.51	-57.47	5.86	-2.89	-13.00	-41.51
939.86	S	-63.71	-65.92	5.53	-3.32	-13.00	-50.71
3819.60	H	-46.55	-48.85	9.20	-6.90	-13.00	-33.55
5729.40	H	-43.88	-45.83	10.50	-8.54	-13.00	-30.88
7639.20	H	-45.47	-47.54	12.01	-9.94	-13.00	-32.47
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-71.89	-72.20	1.51	-1.20	-13.00	-58.89
242.43	S	-67.31	-71.08	5.45	-1.68	-13.00	-54.31
426.73	S	-68.69	-72.62	6.07	-2.15	-13.00	-55.69
641.10	S	-64.77	-68.13	6.04	-2.67	-13.00	-51.77
773.02	S	-53.77	-56.73	5.86	-2.90	-13.00	-40.77
946.65	S	-64.71	-66.88	5.50	-3.33	-13.00	-51.71
3819.60	H	-52.82	-55.12	9.20	-6.90	-13.00	-39.82
5729.40	H	-45.84	-47.80	10.50	-8.54	-13.00	-32.84
7639.20	H	-49.15	-51.22	12.01	-9.94	-13.00	-36.15
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-53.59	-41.07	-11.72	-0.80	-13.00	-40.59
282.20	S	-70.71	-74.52	5.63	-1.82	-13.00	-57.71
431.58	S	-70.09	-73.98	6.06	-2.17	-13.00	-57.09
648.86	S	-64.89	-68.29	6.08	-2.68	-13.00	-51.89
773.99	S	-53.14	-56.10	5.86	-2.90	-13.00	-40.14
953.44	S	-64.28	-66.22	5.28	-3.34	-13.00	-51.28
3704.80	H	-55.15	-57.47	9.13	-6.80	-13.00	-42.15
5557.20	H	-52.52	-54.62	10.50	-8.41	-13.00	-39.52
7409.60	H	-45.42	-47.44	11.81	-9.79	-13.00	-32.42
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
88.20	S	-69.84	-70.17	1.50	-1.17	-13.00	-56.84
247.28	S	-69.84	-73.62	5.47	-1.70	-13.00	-56.84
435.46	S	-70.00	-73.86	6.04	-2.18	-13.00	-57.00
516.94	S	-68.33	-72.02	6.08	-2.40	-13.00	-55.33
659.53	S	-64.93	-68.31	6.08	-2.69	-13.00	-51.93
771.08	S	-53.55	-56.52	5.86	-2.89	-13.00	-40.55
3704.80	H	-56.61	-58.94	9.13	-6.80	-13.00	-43.61
5557.20	H	-52.73	-54.82	10.50	-8.41	-13.00	-39.73
7409.60	H	-49.23	-51.25	11.81	-9.79	-13.00	-36.23
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-54.47	-42.19	-11.48	-0.80	-13.00	-41.47
155.13	S	-73.19	-72.45	0.66	-1.40	-13.00	-60.19
313.24	S	-71.00	-75.06	5.97	-1.90	-13.00	-58.00
539.25	S	-69.94	-73.53	6.05	-2.46	-13.00	-56.94
772.05	S	-50.60	-53.56	5.86	-2.89	-13.00	-37.60
924.34	S	-64.54	-66.84	5.60	-3.30	-13.00	-51.54
3760.00	H	-55.13	-57.44	9.16	-6.85	-13.00	-42.13
5640.00	H	---					
7520.00	H	-46.47	-48.51	11.92	-9.87	-13.00	-33.47
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

$EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-69.70	-70.02	1.51	-1.20	-13.00	-56.70
278.32	S	-70.58	-74.42	5.64	-1.80	-13.00	-57.58
515.97	S	-70.22	-73.91	6.09	-2.40	-13.00	-57.22
651.77	S	-63.46	-66.86	6.09	-2.68	-13.00	-50.46
771.08	S	-51.70	-54.66	5.86	-2.89	-13.00	-38.70
941.80	S	-62.30	-64.49	5.52	-3.32	-13.00	-49.30
3760.00	H	-57.69	-60.00	9.16	-6.85	-13.00	-44.69
5640.00	H	---					
7520.00	H	-49.05	-51.09	11.92	-9.87	-13.00	-36.05
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-53.94	-41.42	-11.72	-0.80	-13.00	-40.94
170.65	S	-74.14	-74.45	1.75	-1.44	-13.00	-61.14
313.24	S	-69.94	-74.01	5.97	-1.90	-13.00	-56.94
635.28	S	-65.23	-68.57	6.00	-2.66	-13.00	-52.23
773.02	S	-52.88	-55.84	5.86	-2.90	-13.00	-39.88
948.59	S	-64.46	-66.62	5.49	-3.33	-13.00	-51.46
3815.20	H	-55.32	-57.61	9.19	-6.90	-13.00	-42.32
5722.80	H	---					
7630.40	H	-44.76	-46.83	12.01	-9.94	-13.00	-31.76
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
88.20	S	-70.36	-70.70	1.50	-1.17	-13.00	-57.36
286.08	S	-69.92	-73.65	5.55	-1.83	-13.00	-56.92
527.61	S	-69.86	-73.50	6.07	-2.43	-13.00	-56.86
646.92	S	-64.67	-68.06	6.07	-2.68	-13.00	-51.67
773.99	S	-51.73	-54.69	5.86	-2.90	-13.00	-38.73
937.92	S	-64.78	-67.00	5.54	-3.32	-13.00	-51.78
3815.20	H	-56.43	-58.73	9.19	-6.90	-13.00	-43.43
5722.80	H	---					
7630.40	H	-48.23	-50.30	12.01	-9.94	-13.00	-35.23
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: HSDPA V Mode

Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-55.86	-41.43	-13.63	-0.80	-13.00	-42.86
89.17	S	-71.88	-70.27	-0.43	-1.18	-13.00	-58.88
283.17	S	-72.33	-73.98	3.46	-1.82	-13.00	-59.33
383.08	S	-72.16	-74.16	4.03	-2.04	-13.00	-59.16
639.16	S	-66.68	-67.89	3.88	-2.67	-13.00	-53.68
772.05	S	-54.86	-55.67	3.71	-2.89	-13.00	-41.86
1652.80	H	-63.34	-62.47	3.55	-4.42	-13.00	-50.34
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band :WCDMA B5 Test Date :2014-11-26
 ARFCN :CH 4132 Temp./Humi. :23 deg_C / 56 RH
 Fundamental Frequency :826.4 MHz Engineer :Curry
 Operation Mode :TX LOW
 EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	S	-70.16	-68.34	-0.65	-1.17	-13.00	-57.16
240.49	S	-68.80	-70.41	3.29	-1.67	-13.00	-55.80
390.84	S	-72.62	-74.59	4.03	-2.05	-13.00	-59.62
641.10	S	-67.29	-68.50	3.89	-2.67	-13.00	-54.29
770.11	S	-54.85	-55.66	3.71	-2.89	-13.00	-41.85
948.59	S	-65.34	-65.34	3.34	-3.33	-13.00	-52.34
1652.80	H	-65.53	-64.65	3.55	-4.42	-13.00	-52.53
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-58.18	-43.50	-13.87	-0.80	-13.00	-45.18
336.52	S	-71.59	-73.62	3.98	-1.95	-13.00	-58.59
523.73	S	-71.80	-73.31	3.92	-2.42	-13.00	-58.80
640.13	S	-67.26	-68.47	3.88	-2.67	-13.00	-54.26
773.02	S	-54.81	-55.63	3.71	-2.90	-13.00	-41.81
935.98	S	-66.13	-66.21	3.40	-3.32	-13.00	-53.13
1673.20	H	-63.57	-62.61	3.49	-4.45	-13.00	-50.57
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
91.11	S	-70.18	-68.65	-0.33	-1.20	-13.00	-57.18
239.52	S	-67.99	-69.63	3.31	-1.67	-13.00	-54.99
322.94	S	-71.84	-73.81	3.88	-1.92	-13.00	-58.84
594.54	S	-68.56	-69.62	3.67	-2.61	-13.00	-55.56
773.02	S	-53.69	-54.50	3.71	-2.90	-13.00	-40.69
951.50	S	-65.80	-65.71	3.25	-3.34	-13.00	-52.80
1673.20	H	-65.05	-64.09	3.49	-4.45	-13.00	-52.05
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
32.91	S	-55.02	-40.59	-13.63	-0.80	-13.00	-42.02
325.85	S	-71.34	-73.32	3.90	-1.93	-13.00	-58.34
467.47	S	-71.63	-73.25	3.89	-2.27	-13.00	-58.63
646.92	S	-66.49	-67.74	3.92	-2.68	-13.00	-53.49
772.05	S	-55.82	-56.64	3.71	-2.89	-13.00	-42.82
949.56	S	-67.33	-67.33	3.34	-3.34	-13.00	-54.33
1693.20	H	-62.29	-61.26	3.44	-4.48	-13.00	-49.29
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
89.17	S	-70.55	-68.94	-0.43	-1.18	-13.00	-57.55
242.43	S	-68.93	-70.55	3.30	-1.68	-13.00	-55.93
451.95	S	-73.00	-74.62	3.85	-2.22	-13.00	-60.00
642.07	S	-67.21	-68.43	3.89	-2.67	-13.00	-54.21
771.08	S	-55.52	-56.34	3.71	-2.89	-13.00	-42.52
948.59	S	-65.76	-65.77	3.34	-3.33	-13.00	-52.76
1693.20	H	-64.50	-63.47	3.44	-4.48	-13.00	-51.50
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 20 MHz BW LTE-Band 2(The Worst Case)

Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 18700 16QAM BW 20 RB 1 0	Test Date	:2014-11-20
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1860 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
31.94	S	-55.45	-40.77	-13.87	-0.80	-13.00	-42.45
250.19	S	-73.02	-74.65	3.34	-1.71	-13.00	-60.02
448.07	S	-72.44	-74.07	3.85	-2.21	-13.00	-59.44
522.76	S	-71.45	-72.96	3.93	-2.42	-13.00	-58.45
772.05	S	-54.39	-55.20	3.71	-2.89	-13.00	-41.39
937.92	S	-65.87	-65.94	3.39	-3.32	-13.00	-52.87
3720.00	H	-52.11	-54.43	9.14	-6.82	-13.00	-39.11
5580.00	H	---					
7440.00	H	---					
9300.00	H	---					
11160.00	H	---					
13020.00	H	---					
14880.00	H	---					
16740.00	H	---					
18600.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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ARFCN	:CH 18700 16QAM BW 20 RB 1 0	Test Date	:2014-11-20
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1860 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
90.14	S	-70.77	-69.33	-0.25	-1.20	-13.00	-57.77
247.28	S	-71.95	-73.58	3.32	-1.70	-13.00	-58.95
392.78	S	-73.35	-75.32	4.03	-2.06	-13.00	-60.35
596.48	S	-68.74	-69.79	3.66	-2.61	-13.00	-55.74
772.05	S	-54.39	-55.20	3.71	-2.89	-13.00	-41.39
940.83	S	-66.56	-66.61	3.38	-3.32	-13.00	-53.56
3720.00	H	-58.22	-60.54	9.14	-6.82	-13.00	-45.22
5580.00	H	---					
7440.00	H	---					
9300.00	H	---					
11160.00	H	---					
13020.00	H	---					
14880.00	H	---					
16740.00	H	---					
18600.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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ARFCN :CH 18900 16QAM BW Test Date :2014-11-20
 20 RB 1 0
 Operation Band :LTE B2 Temp./Humi. :23 deg_C / 58 RH
 Fundamental Frequency :1880 MHz Engineer :Tin
 Operation Mode :TX MID
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-55.48	-40.80	-13.87	-0.80	-13.00	-42.48
265.71	S	-73.06	-74.55	3.25	-1.76	-13.00	-60.06
385.99	S	-73.18	-75.16	4.03	-2.05	-13.00	-60.18
536.34	S	-71.26	-72.71	3.91	-2.45	-13.00	-58.26
689.60	S	-67.21	-68.38	3.89	-2.73	-13.00	-54.21
773.02	S	-54.74	-55.56	3.71	-2.90	-13.00	-41.74
3760.00	H	-52.62	-54.93	9.16	-6.85	-13.00	-39.62
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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ARFCN	:CH 18900 16QAM BW 20 RB 1 0	Test Date	:2014-11-20
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	S	-71.46	-70.02	-0.25	-1.20	-13.00	-58.46
287.05	S	-71.53	-73.08	3.38	-1.83	-13.00	-58.53
473.29	S	-72.88	-74.50	3.90	-2.28	-13.00	-59.88
641.10	S	-66.88	-68.10	3.89	-2.67	-13.00	-53.88
770.11	S	-55.57	-56.39	3.71	-2.89	-13.00	-42.57
961.20	S	-67.08	-66.40	2.68	-3.35	-13.00	-54.08
3760.00	H	-57.10	-59.41	9.16	-6.85	-13.00	-44.10
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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ARFCN :CH 19100 16QAM BW Test Date :2014-11-20
 20 RB 1 0
 Operation Band :LTE B2 Temp./Humi. :23 deg_C / 58 RH
 Fundamental Frequency :1900 MHz Engineer :Tin
 Operation Mode :TX HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-56.90	-42.46	-13.63	-0.80	-13.00	-43.90
278.32	S	-72.83	-74.52	3.49	-1.80	-13.00	-59.83
337.49	S	-71.55	-73.58	3.98	-1.95	-13.00	-58.55
509.18	S	-71.20	-72.77	3.95	-2.38	-13.00	-58.20
769.14	S	-56.08	-56.89	3.70	-2.89	-13.00	-43.08
938.89	S	-66.19	-66.25	3.38	-3.32	-13.00	-53.19
3800.00	H	-53.87	-56.17	9.18	-6.88	-13.00	-40.87
5700.00	H	---					
7600.00	H	---					
9500.00	H	---					
11400.00	H	---					
13300.00	H	---					
15200.00	H	---					
17100.00	H	---					
19000.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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ARFCN	:CH 19100 16QAM BW 20 RB 1 0	Test Date	:2014-11-20
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1900 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
91.11	S	-71.62	-70.10	-0.33	-1.20	-13.00	-58.62
287.05	S	-72.12	-73.67	3.38	-1.83	-13.00	-59.12
435.46	S	-73.34	-75.06	3.89	-2.18	-13.00	-60.34
606.18	S	-69.92	-70.97	3.68	-2.63	-13.00	-56.92
772.05	S	-54.66	-55.47	3.71	-2.89	-13.00	-41.66
946.65	S	-65.99	-66.01	3.35	-3.33	-13.00	-52.99
3800.00	H	-56.26	-58.56	9.18	-6.88	-13.00	-43.26
5700.00	H	---					
7600.00	H	---					
9500.00	H	---					
11400.00	H	---					
13300.00	H	---					
15200.00	H	---					
17100.00	H	---					
19000.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 10 MHz BW LTE-Band 5(The Worst Case)

ARFCN	:CH 20450 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.94	S	-54.88	-40.20	-13.87	-0.80	-13.00	-41.88
88.20	S	-72.79	-70.98	-0.65	-1.17	-13.00	-59.79
320.03	S	-71.36	-73.31	3.86	-1.91	-13.00	-58.36
650.80	S	-66.77	-68.03	3.94	-2.68	-13.00	-53.77
771.08	S	-54.62	-55.43	3.71	-2.89	-13.00	-41.62
935.01	S	-66.46	-66.55	3.40	-3.31	-13.00	-53.46
1658.00	H	-59.35	-58.45	3.53	-4.43	-13.00	-46.35
2487.00	H	---					
3316.00	H	---					
4145.00	H	---					
4974.00	H	---					
5803.00	H	---					
6632.00	H	---					
7461.00	H	---					
8290.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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ARFCN	:CH 20450 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
88.20	S	-69.27	-67.46	-0.65	-1.17	-13.00	-56.27
252.13	S	-71.34	-72.93	3.30	-1.72	-13.00	-58.34
480.08	S	-73.08	-74.69	3.91	-2.30	-13.00	-60.08
642.07	S	-67.10	-68.32	3.89	-2.67	-13.00	-54.10
769.14	S	-55.45	-56.27	3.70	-2.89	-13.00	-42.45
954.41	S	-66.01	-65.74	3.07	-3.34	-13.00	-53.01
1658.00	H	-64.99	-64.10	3.53	-4.43	-13.00	-51.99
2487.00	H	---					
3316.00	H	---					
4145.00	H	---					
4974.00	H	---					
5803.00	H	---					
6632.00	H	---					
7461.00	H	---					
8290.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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ARFCN	:CH 20525 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.94	S	-54.61	-39.94	-13.87	-0.80	-13.00	-41.61
92.08	S	-71.48	-69.88	-0.41	-1.20	-13.00	-58.48
312.27	S	-71.79	-73.71	3.81	-1.90	-13.00	-58.79
648.86	S	-66.85	-68.10	3.93	-2.68	-13.00	-53.85
770.11	S	-57.30	-58.12	3.71	-2.89	-13.00	-44.30
927.25	S	-65.96	-66.09	3.44	-3.30	-13.00	-52.96
1673.00	H	-63.42	-62.46	3.49	-4.45	-13.00	-50.42
2509.50	H	---					
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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ARFCN	:CH 20525 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
87.23	S	-68.85	-66.83	-0.88	-1.15	-13.00	-55.85
247.28	S	-71.14	-72.76	3.32	-1.70	-13.00	-58.14
491.72	S	-72.44	-74.05	3.94	-2.33	-13.00	-59.44
646.92	S	-66.53	-67.77	3.92	-2.68	-13.00	-53.53
770.11	S	-57.50	-58.31	3.71	-2.89	-13.00	-44.50
937.92	S	-66.77	-66.84	3.39	-3.32	-13.00	-53.77
1673.00	H	-64.63	-63.67	3.49	-4.45	-13.00	-51.63
2509.50	H	---					
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.94	S	-53.94	-39.27	-13.87	-0.80	-13.00	-40.94
91.11	S	-72.74	-71.21	-0.33	-1.20	-13.00	-59.74
340.40	S	-71.22	-73.27	4.00	-1.96	-13.00	-58.22
650.80	S	-66.60	-67.86	3.94	-2.68	-13.00	-53.60
772.05	S	-55.56	-56.38	3.71	-2.89	-13.00	-42.56
930.16	S	-66.75	-66.87	3.42	-3.31	-13.00	-53.75
1688.00	H	-62.83	-61.82	3.46	-4.47	-13.00	-49.83
2532.00	H	---					
3376.00	H	---					
4220.00	H	---					
5064.00	H	---					
5908.00	H	---					
6752.00	H	---					
7596.00	H	---					
8440.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
88.20	S	-70.04	-68.22	-0.65	-1.17	-13.00	-57.04
260.86	S	-72.11	-73.55	3.19	-1.75	-13.00	-59.11
517.91	S	-71.70	-73.23	3.93	-2.40	-13.00	-58.70
650.80	S	-66.79	-68.04	3.94	-2.68	-13.00	-53.79
772.05	S	-52.45	-53.27	3.71	-2.89	-13.00	-39.45
940.83	S	-66.36	-66.41	3.38	-3.32	-13.00	-53.36
1688.00	H	-64.83	-63.82	3.46	-4.47	-13.00	-51.83
2532.00	H	---					
3376.00	H	---					
4220.00	H	---					
5064.00	H	---					
5908.00	H	---					
6752.00	H	---					
7596.00	H	---					
8440.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

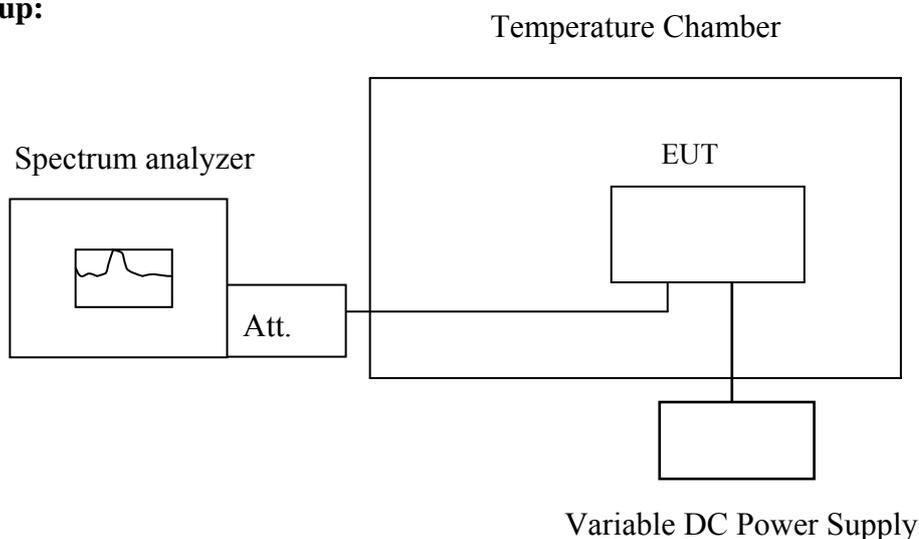
11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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11.3. Measurement Procedure:

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

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	836.599964	-17	2091
3.8	40	836.599972	-9	2091
3.8	30	836.599984	3	2091
3.8	20	836.599981	0	2091
3.8	10	836.599986	5	2091
3.8	0	836.599989	8	2091
3.8	-10	836.599984	3	2091
3.8	-20	836.599981	0	2091
3.8	-30	836.599984	3	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	1879.999969	-15	4700
3.8	40	1879.999967	-17	4700
3.8	30	1879.999972	-12	4700
3.8	20	1879.999984	0	4700
3.8	10	1879.999975	-9	4700
3.8	0	1879.999982	-2	4700
3.8	-10	1879.999987	3	4700
3.8	-20	1879.999985	1	4700
3.8	-30	1879.999978	-6	4700

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Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	836.599981	-38	2091
3.8	40	836.599985	-34	2091
3.8	30	836.599992	-27	2091
3.8	20	836.600019	0	2091
3.8	10	836.599994	-25	2091
3.8	0	836.599995	-24	2091
3.8	-10	836.600009	-10	2091
3.8	-20	836.600015	-4	2091
3.8	-30	836.600022	3	2091

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	1879.999981	-11	4700
3.8	40	1879.999984	-8	4700
3.8	30	1879.999985	-7	4700
3.8	20	1879.999992	0	4700
3.8	10	1879.999985	-7	4700
3.8	0	1879.999982	-10	4700
3.8	-10	1879.999979	-13	4700
3.8	-20	1879.999975	-17	4700
3.8	-30	1879.999972	-20	4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 1.4M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000011	9.00	4700
3.8	-20	1880.000003	1.00	4700
3.8	-10	1879.999998	-4.00	4700
3.8	0	1879.999997	-5.00	4700
3.8	10	1880.000002	0.00	4700
3.8	20	1880.000002	0.00	4700
3.8	30	1879.999997	-5.00	4700
3.8	40	1879.999996	-6.00	4700
3.8	50	1880.000002	0.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 1.4M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1879.999998	-4.00	4700
3.8	-20	1880.000004	2.00	4700
3.8	-10	1880.000004	2.00	4700
3.8	0	1879.999998	-4.00	4700
3.8	10	1880.000004	2.00	4700
3.8	20	1880.000002	0.00	4700
3.8	30	1880.000005	3.00	4700
3.8	40	1879.999998	-4.00	4700
3.8	50	1879.999995	-7.00	4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 3M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1879.999994	-9.00	4700
3.8	-20	1879.999998	-5.00	4700
3.8	-10	1880.000003	0.00	4700
3.8	0	1879.999996	-7.00	4700
3.8	10	1880.000002	-1.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1879.999997	-6.00	4700
3.8	40	1879.999993	-10.00	4700
3.8	50	1880.000009	6.00	4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 3M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000005	3.00	4700
3.8	-20	1880.000003	1.00	4700
3.8	-10	1880.000007	5.00	4700
3.8	0	1879.999995	-7.00	4700
3.8	10	1879.999996	-6.00	4700
3.8	20	1880.000002	0.00	4700
3.8	30	1880.000005	3.00	4700
3.8	40	1879.999992	-10.00	4700
3.8	50	1880.000003	1.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 5M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000004	1.00	4700
3.8	-20	1880.000009	6.00	4700
3.8	-10	1880.000003	0.00	4700
3.8	0	1880.000006	3.00	4700
3.8	10	1879.999997	-6.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000005	2.00	4700
3.8	40	1880.000007	4.00	4700
3.8	50	1880.000002	-1.00	4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 5M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1879.999997	-8.00	4700
3.8	-20	1879.999996	-9.00	4700
3.8	-10	1880.000001	-4.00	4700
3.8	0	1880.000003	-2.00	4700
3.8	10	1880.000003	-2.00	4700
3.8	20	1880.000005	0.00	4700
3.8	30	1879.999997	-8.00	4700
3.8	40	1879.999996	-9.00	4700
3.8	50	1880.000000	-5.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 10M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000003	1.00	4700
3.8	-20	1880.000002	0.00	4700
3.8	-10	1880.000005	3.00	4700
3.8	0	1879.999998	-4.00	4700
3.8	10	1879.999996	-6.00	4700
3.8	20	1880.000002	0.00	4700
3.8	30	1880.000003	1.00	4700
3.8	40	1879.999996	-6.00	4700
3.8	50	1879.999998	-4.00	4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 10M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000010	7.00	4700
3.8	-20	1879.999998	-5.00	4700
3.8	-10	1880.000003	0.00	4700
3.8	0	1880.000005	2.00	4700
3.8	10	1880.000004	1.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1879.999997	-6.00	4700
3.8	40	1879.999996	-7.00	4700
3.8	50	1880.000002	-1.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 15M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000007	3.00	4700
3.8	-20	1880.000005	1.00	4700
3.8	-10	1879.999993	-11.00	4700
3.8	0	1879.999997	-7.00	4700
3.8	10	1880.000002	-2.00	4700
3.8	20	1880.000004	0.00	4700
3.8	30	1880.000003	-1.00	4700
3.8	40	1880.000004	0.00	4700
3.8	50	1879.999997	-7.00	4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 15M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000007	3.00	4700
3.8	-20	1880.000003	-1.00	4700
3.8	-10	1879.999995	-9.00	4700
3.8	0	1879.999996	-8.00	4700
3.8	10	1879.999994	-10.00	4700
3.8	20	1880.000004	0.00	4700
3.8	30	1880.000003	-1.00	4700
3.8	40	1880.000004	0.00	4700
3.8	50	1879.999998	-6.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 20M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000004	1.00	4700
3.8	-20	1880.000003	0.00	4700
3.8	-10	1880.000005	2.00	4700
3.8	0	1879.999996	-7.00	4700
3.8	10	1880.000006	3.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000004	1.00	4700
3.8	40	1879.999996	-7.00	4700
3.8	50	1879.999996	-7.00	4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 20M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000010	7.00	4700
3.8	-20	1880.000008	5.00	4700
3.8	-10	1880.000003	0.00	4700
3.8	0	1879.999998	-5.00	4700
3.8	10	1879.999997	-6.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000004	1.00	4700
3.8	40	1880.000003	0.00	4700
3.8	50	1879.999998	-5.00	4700

Reference Frequency: LTE B5 Mid Channel 836.5 MHz 1.4M QPSK CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	836.500012	9.00	2091
3.8	-20	836.500006	3.00	2091
3.8	-10	836.500008	5.00	2091
3.8	0	836.500009	6.00	2091
3.8	10	836.500005	2.00	2091
3.8	20	836.500003	0.00	2091
3.8	30	836.500002	-1.00	2091
3.8	40	836.499995	-8.00	2091
3.8	50	836.499993	-10.00	2091

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500009	4.00	2091	
3.8	-20	836.500006	1.00	2091	
3.8	-10	836.500004	-1.00	2091	
3.8	0	836.500009	4.00	2091	
3.8	10	836.500003	-2.00	2091	
3.8	20	836.500005	0.00	2091	
3.8	30	836.499997	-8.00	2091	
3.8	40	836.499998	-7.00	2091	
3.8	50	836.499993	-12.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500011	14.00	2091	
3.8	-20	836.500006	9.00	2091	
3.8	-10	836.500003	6.00	2091	
3.8	0	836.500005	8.00	2091	
3.8	10	836.500009	12.00	2091	
3.8	20	836.499997	0.00	2091	
3.8	30	836.499995	-2.00	2091	
3.8	40	836.499996	-1.00	2091	
3.8	50	836.499992	-5.00	2091	

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Reference Frequency: LTE B5 Mid Channel 836.5 MHz 3M 16QAM CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	836.500010	12.00	2091
3.8	-20	836.500009	11.00	2091
3.8	-10	836.500003	5.00	2091
3.8	0	836.500004	6.00	2091
3.8	10	836.500006	8.00	2091
3.8	20	836.499998	0.00	2091
3.8	30	836.499994	-4.00	2091
3.8	40	836.499992	-6.00	2091
3.8	50	836.499993	-5.00	2091

Reference Frequency: LTE B5 Mid Channel 836.5 MHz 5M QPSK CH 20525				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	836.500007	9.00	2091
3.8	-20	836.500010	12.00	2091
3.8	-10	836.500006	8.00	2091
3.8	0	836.500003	5.00	2091
3.8	10	836.500005	7.00	2091
3.8	20	836.499998	0.00	2091
3.8	30	836.499994	-4.00	2091
3.8	40	836.499996	-2.00	2091
3.8	50	836.499992	-6.00	2091

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500006	4.00	2091	
3.8	-20	836.500011	9.00	2091	
3.8	-10	836.500015	13.00	2091	
3.8	0	836.500008	6.00	2091	
3.8	10	836.500005	3.00	2091	
3.8	20	836.500002	0.00	2091	
3.8	30	836.499997	-5.00	2091	
3.8	40	836.499994	-8.00	2091	
3.8	50	836.499993	-9.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500008	2.00	2091	
3.8	-20	836.500013	7.00	2091	
3.8	-10	836.500010	4.00	2091	
3.8	0	836.500009	3.00	2091	
3.8	10	836.500006	0.00	2091	
3.8	20	836.500006	0.00	2091	
3.8	30	836.500004	-2.00	2091	
3.8	40	836.499994	-12.00	2091	
3.8	50	836.499995	-11.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500010	12.00	2091	
3.8	-20	836.500007	9.00	2091	
3.8	-10	836.500003	5.00	2091	
3.8	0	836.500002	4.00	2091	
3.8	10	836.499997	-1.00	2091	
3.8	20	836.499998	0.00	2091	
3.8	30	836.499992	-6.00	2091	
3.8	40	836.499996	-2.00	2091	
3.8	50	836.499994	-4.00	2091	

Note: The battery is rated 3.8V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

GPRS850

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.35	25	836599984	3	2091
3.8	25	836599981	0	2091
3.4	25	836599968	-13	2091
2.9 (End point)	25	836599929	-52	2091

GPRS1900

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.35	25	1879999978	-6	4700
3.8	25	1879999984	0	4700
3.4	25	1879999983	-1	4700
2.9 (End point)	25	1879999941	-43	4700

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WCDMA II

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.35	25	1879999994	2	4700
3.8	25	1879999992	0	4700
3.4	25	1879999985	-7	4700
2.9 (End point)	25	1879999950	-42	4700

WCDMA V

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.4	25	836600025	6	2091
3.8	25	836600019	0	2091
3.4	25	836599995	-24	2091
2.9 (End point)	25	836599957	-62	2091

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000004	2.00	4700	
3.8	25	1880.000002	0.00	4700	
3.40	25	1880.000001	-1.00	4700	
2.9 (End Point)	25	1880.000042	40.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000004	2.00	4700	
3.8	25	1880.000002	0.00	4700	
3.40	25	1880.000002	0.00	4700	
2.9 (End Point)	25	1880.000034	32.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000005	2.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000004	1.00	4700	
2.9 (End Point)	25	1880.000044	41.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000005	2.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000004	1.00	4700	
2.9 (End Point)	25	1880.000028	25.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000004	-3.00	4700	
3.8	25	1880.000007	0.00	4700	
3.40	25	1880.000004	-3.00	4700	
2.9 (End Point)	25	1880.000028	21.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000006	3.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000005	2.00	4700	
2.9 (End Point)	25	1880.000044	41.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000001	-2.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000005	2.00	4700	
2.9 (End Point)	25	1880.000041	38.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000008	4.00	4700	
3.8	25	1880.000004	0.00	4700	
3.40	25	1880.000005	1.00	4700	
2.9 (End Point)	25	1880.000038	34.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000005	2.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000006	3.00	4700	
2.9 (End Point)	25	1880.000036	33.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000006	2.00	4700	
3.8	25	1880.000004	0.00	4700	
3.40	25	1880.000003	-1.00	4700	
2.9 (End Point)	25	1880.000051	47.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000004	-1.00	4700	
3.8	25	1880.000005	0.00	4700	
3.40	25	1880.000004	-1.00	4700	
2.9 (End Point)	25	1880.000041	36.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000006	1.00	4700	
3.8	25	1880.000005	0.00	4700	
3.40	25	1880.000004	-1.00	4700	
2.9 (End Point)	25	1880.000035	30.00	4700	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.500006	-2.00	2091	
3.8	25	836.500008	0.00	2091	
3.40	25	836.500004	-4.00	2091	
2.9 (End Point)	25	836.500044	36.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.500004	-4.00	2091	
3.8	25	836.500008	0.00	2091	
3.40	25	836.500003	-5.00	2091	
2.9 (End Point)	25	836.500038	30.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.500007	2.00	2091	
3.8	25	836.500005	0.00	2091	
3.40	25	836.500002	-3.00	2091	
2.9 (End Point)	25	836.500029	24.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.500006	3.00	2091	
3.8	25	836.500003	0.00	2091	
3.40	25	836.500004	1.00	2091	
2.9 (End Point)	25	836.500026	23.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.500006	3.00	2091	
3.8	25	836.500003	0.00	2091	
3.40	25	836.500001	-2.00	2091	
2.9 (End Point)	25	836.500032	29.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.500007	3.00	2091	
3.8	25	836.500004	0.00	2091	
3.40	25	836.500002	-2.00	2091	
2.9 (End Point)	25	836.500036	32.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.500005	1.00	2091	
3.8	25	836.500004	0.00	2091	
3.40	25	836.500006	2.00	2091	
2.9 (End Point)	25	836.500029	25.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.500008	5.00	2091	
3.8	25	836.500003	0.00	2091	
3.40	25	836.500002	-1.00	2091	
2.9 (End Point)	25	836.500033	30.00	2091	

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13. PEAK TO AVERAGE RATIO

13.1. Standard Applicable:

According FCC 24.232(d), The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

13.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:

Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms

Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.1 Tabular Results:

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 128(L)		Channel 190(M)		Channel 251(H)	
	824.2MHz		836.6MHz		848.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 850	10.83	13	10.39	13	8.27	13
GPRS 850	9.24	13	9.63	13	10.27	13
EDGE 850	11.81	13	12.21	13	12.54	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 512(L)		Channel 661(M)		Channel 810(H)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 1900	10.60	13	10.80	13	12.14	13
GPRS 1900	9.90	13	9.03	13	9.31	13
EDGE 1900	12.41	13	12.38	13	12.14	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 9262(L)		Channel 9400(M)		Channel 9538(H)	
	1852.4MHz		1880.0MHz		1907.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band II	2.93	13	2.80	13	2.53	13
HSUPA Band II	3.55	13	3.56	13	3.64	13
HSDPA Band II	3.55	13	3.70	13	3.47	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 4132(L)		Channel 4183(M)		Channel 4233(H)	
	826.4MHz		836.6MHz		846.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band V	3.19	13	3.08	13	3.16	13
HSUPA Band V	3.75	13	3.86	13	3.35	13
HSDPA Band V	3.95	13	3.86	13	3.80	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18607(L)		Channel 18900(M)		Channel 19193(H)	
	1850.7MHz		1880.0MHz		1909.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:1.4M	5.55	13	5.73	13	5.12	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18615(L)		Channel 18900(M)		Channel 19185(H)	
	1851.5MHz		1880.0MHz		1908.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:3M	5.58	13	5.84	13	5.44	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 19975(L)		Channel 20175(M)		Channel 20375(H)	
	1852.5MHz		1880.0MHz		1907.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:5M	5.91	13	6.01	13	5.80	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20000 (L)		Channel 20175(M)		Channel 20350 (H)	
	1855.0 MHz		1880.0 MHz		1905.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:10M	6.12	13	6.00	13	6.04	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20025(L)		Channel 20175(M)		Channel 20325(H)	
	1857.5 MHz		1880.0 MHz		1902.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:15M	6.61	13	6.58	13	6.68	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20050(L)		Channel 20175(M)		Channel 20300(H)	
	1860.0 MHz		1880.0 MHz		1900.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:20M	6.99	13	7.06	13	7.05	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20407(L)		Channel 20525(M)		Channel 20643(H)	
	824.7MHz		836.5MHz		848.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:1.4M	6.71	13	6.56	13	6.50	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20415 (L)		Channel 20525 (M)		Channel 20643 (H)	
	825.5MHz		836.5MHz		847.5	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:3M	6.66	13	6.56	13	6.55	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20425(L)		Channel 20525(M)		Channel 20625(H)	
	826.5MHz		836.5MHz		846.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:5M	6.61	13	6.71	13	6.67	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20450 (L)		Channel 20525(M)		Channel 20600 (H)	
	829.0 MHz		836.5 MHz		844.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:10M	6.47	13	6.62	13	6.56	13

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13.5.2 Measurement Results:

Figure 13-1: GSM 850 Channel Low

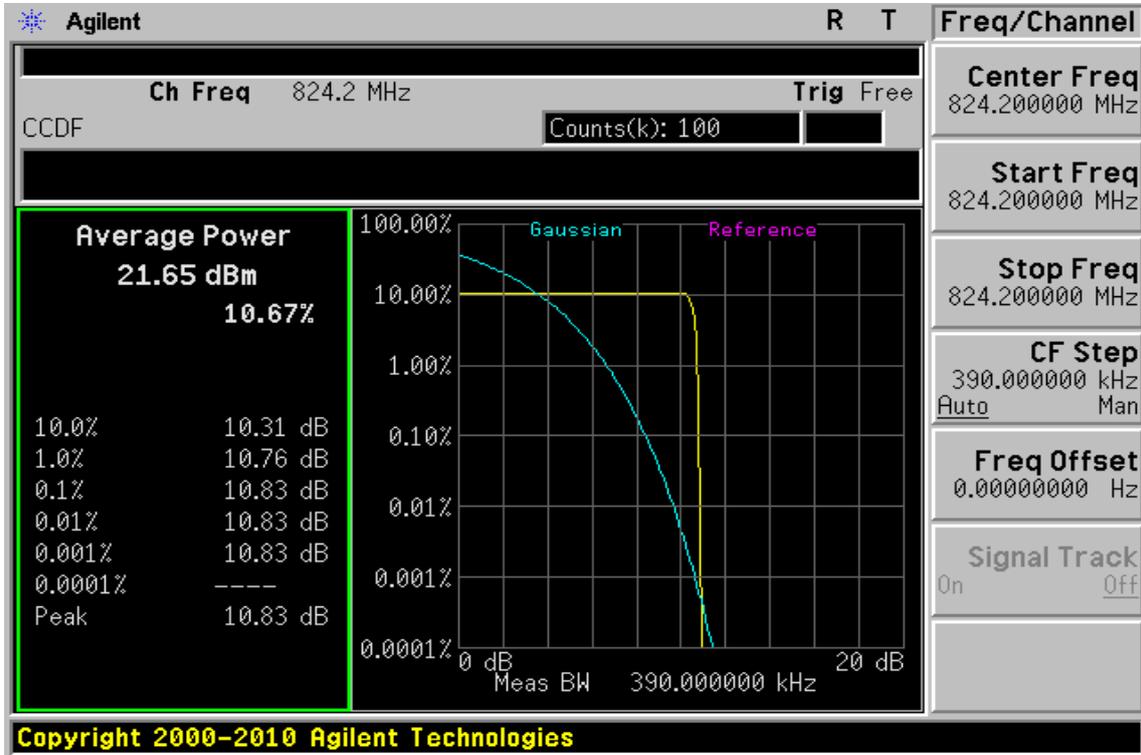
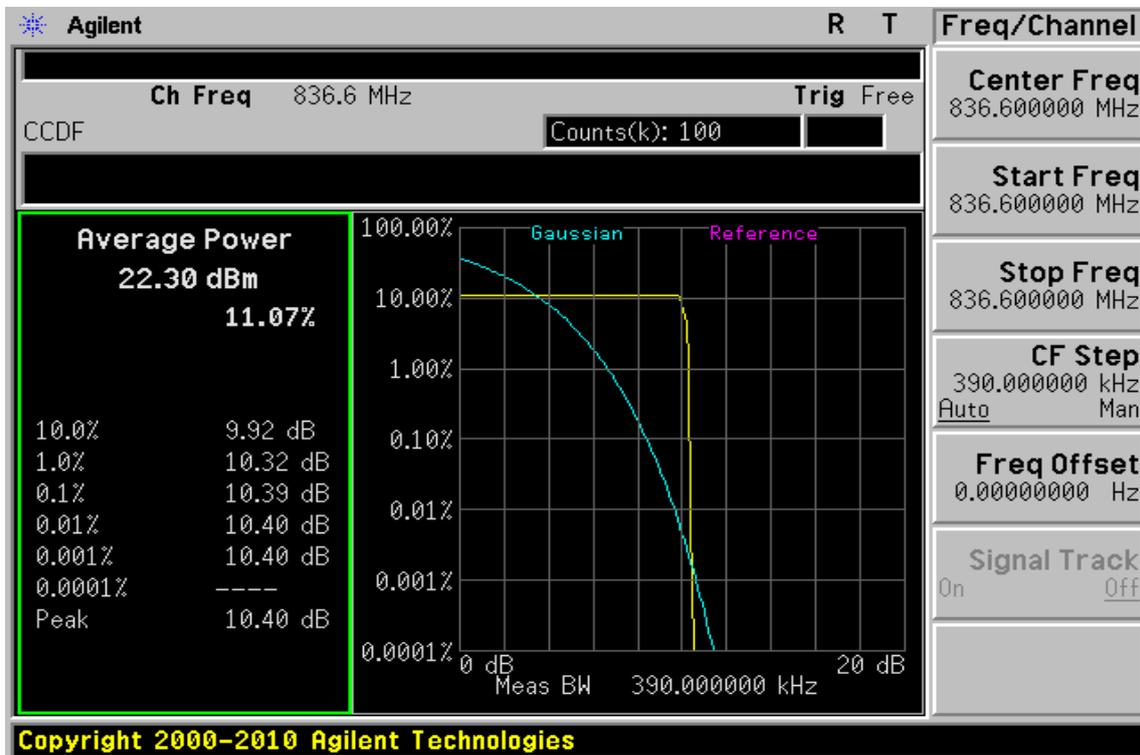


Figure 13-2: GSM 850 Channel Mid



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Figure 13-3: GSM 850 Channel High

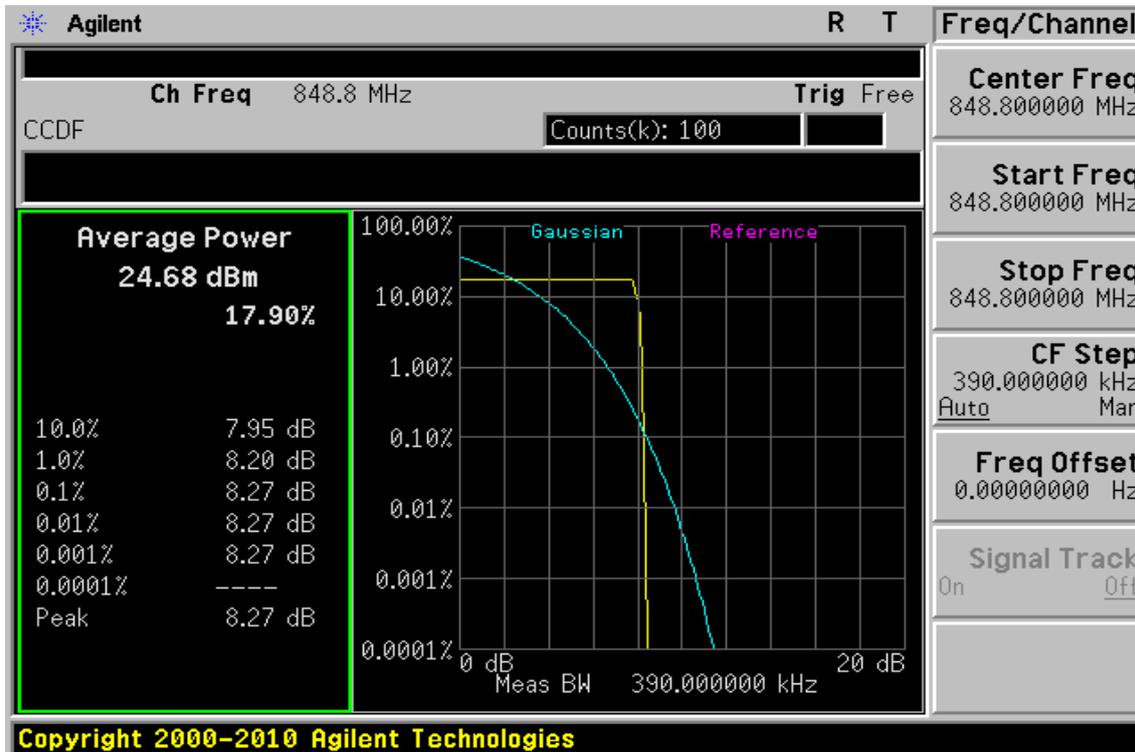
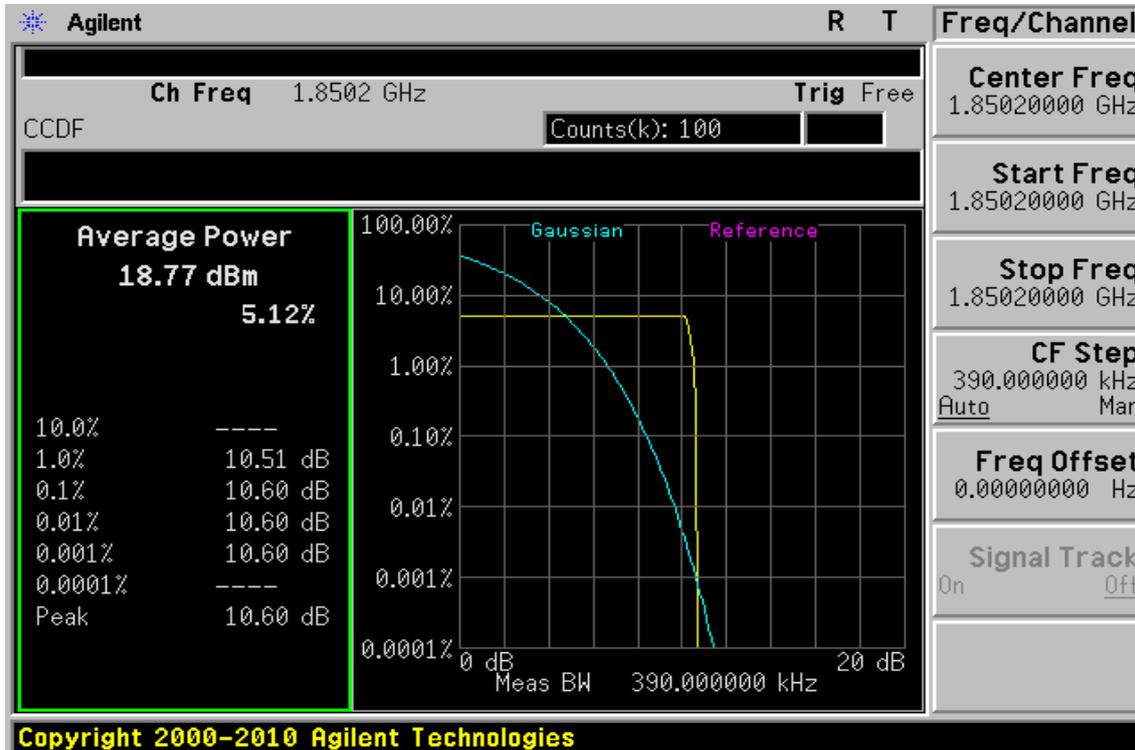


Figure 13-4: GSM 1900 Channel Low



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Figure 13-5: GSM 1900 Channel Mid

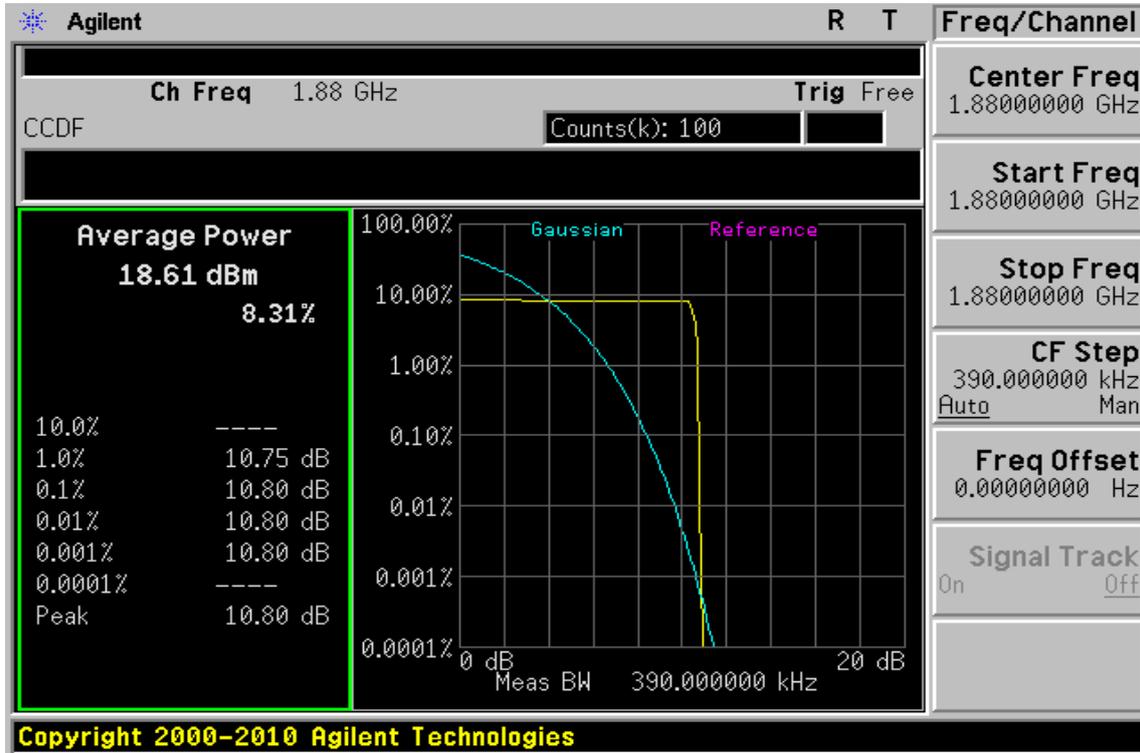
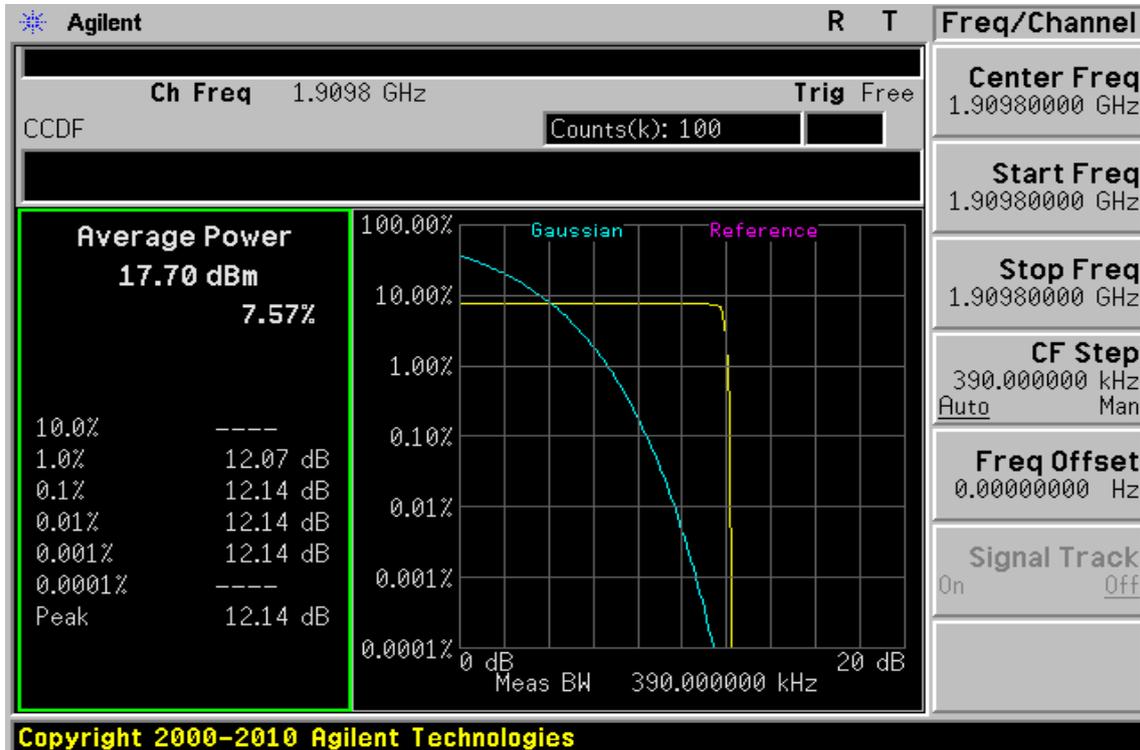


Figure 13-6: GSM 1900 Channel High



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Figure 13-7: GPRS 850 Channel Low

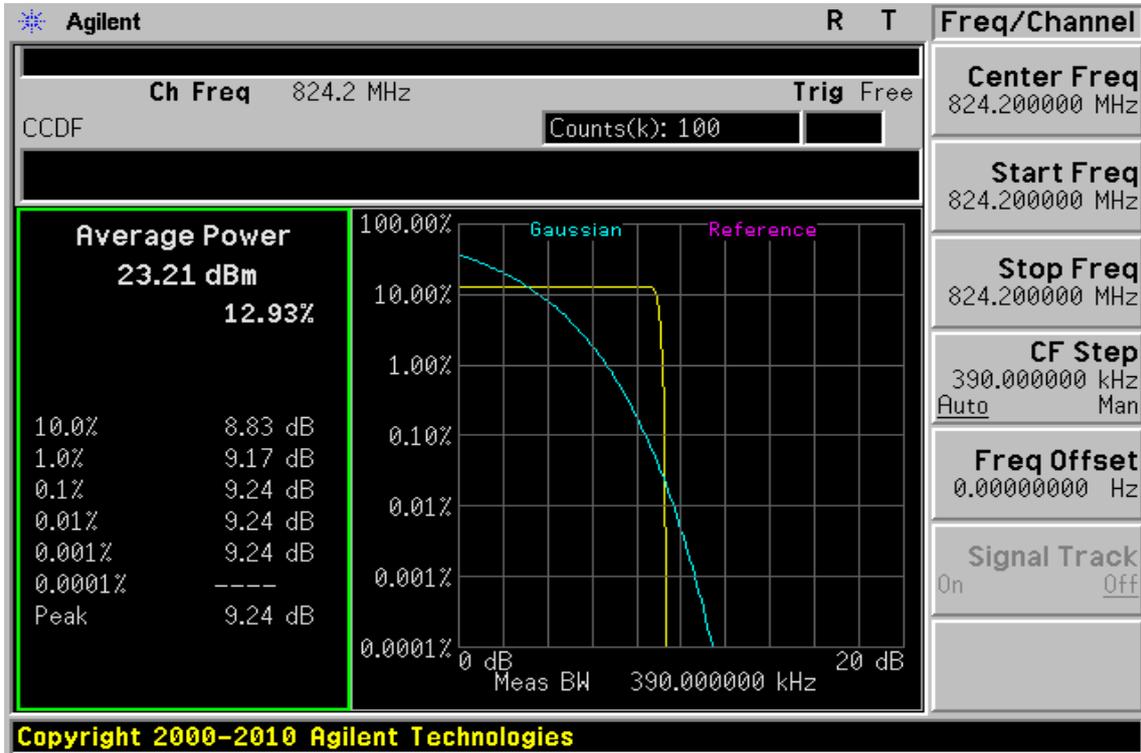
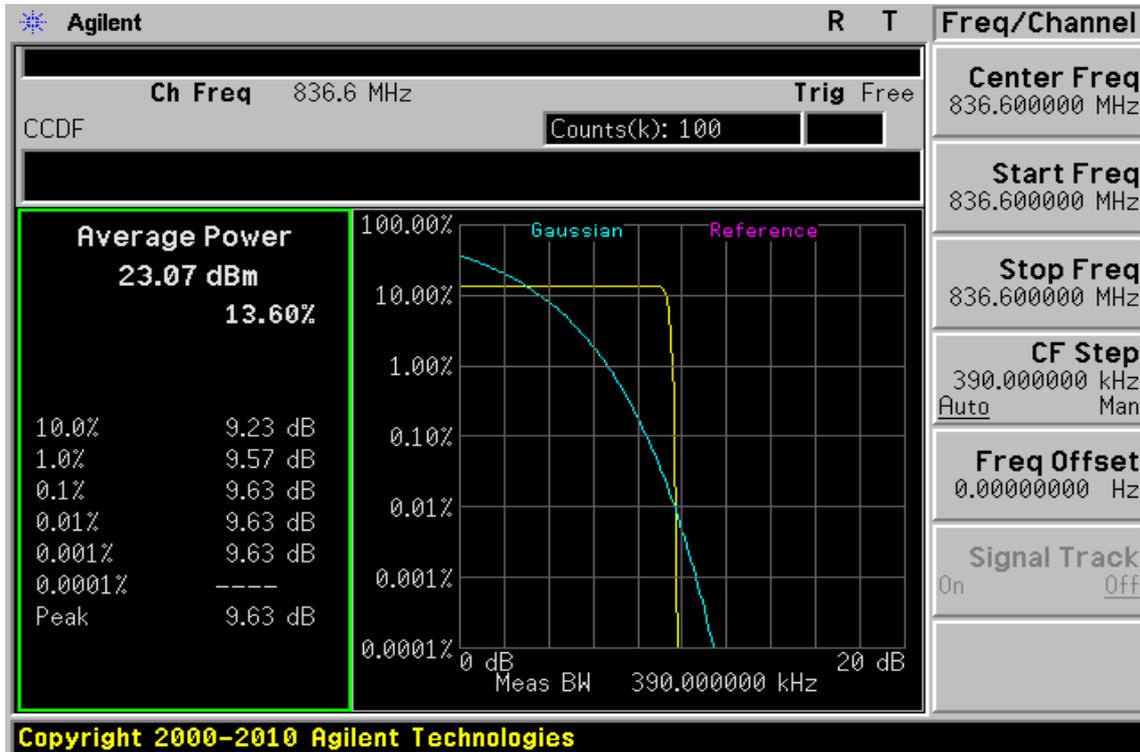


Figure 13-8: GPRS 850 Channel Mid



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Figure 13-9: GPRS 850 Channel High

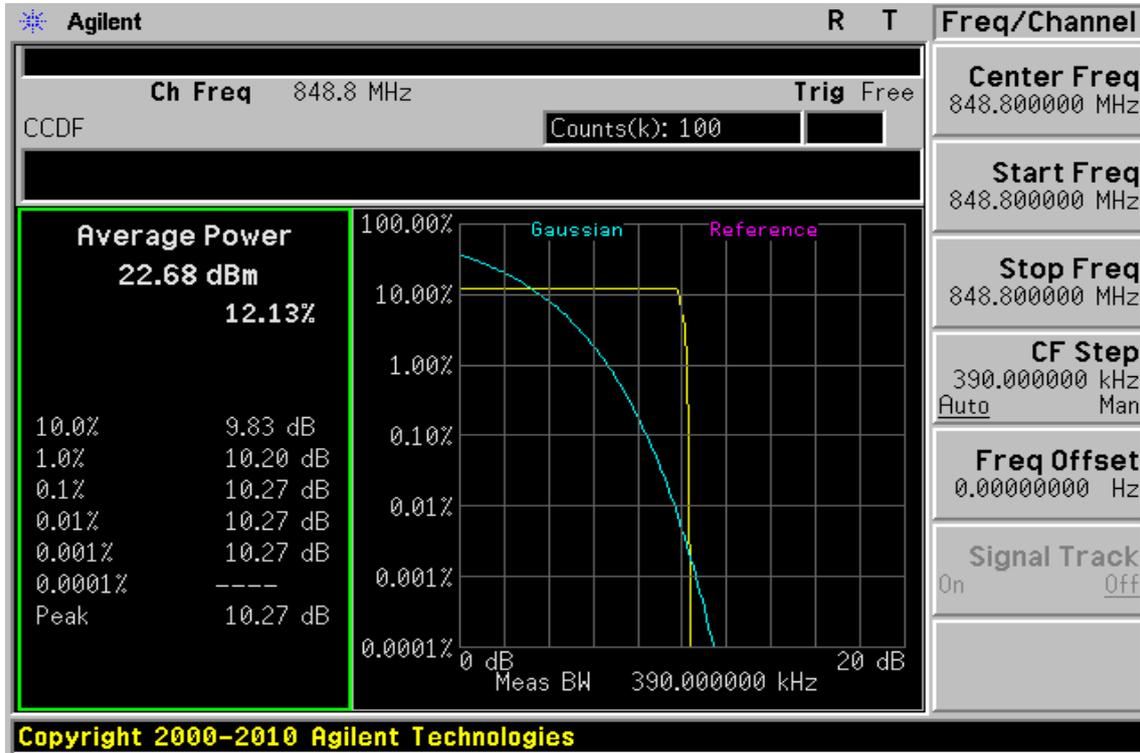


Figure 13-10: GPRS 1900 Channel Low



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Figure 13-11 GPRS 1900 Channel Mid

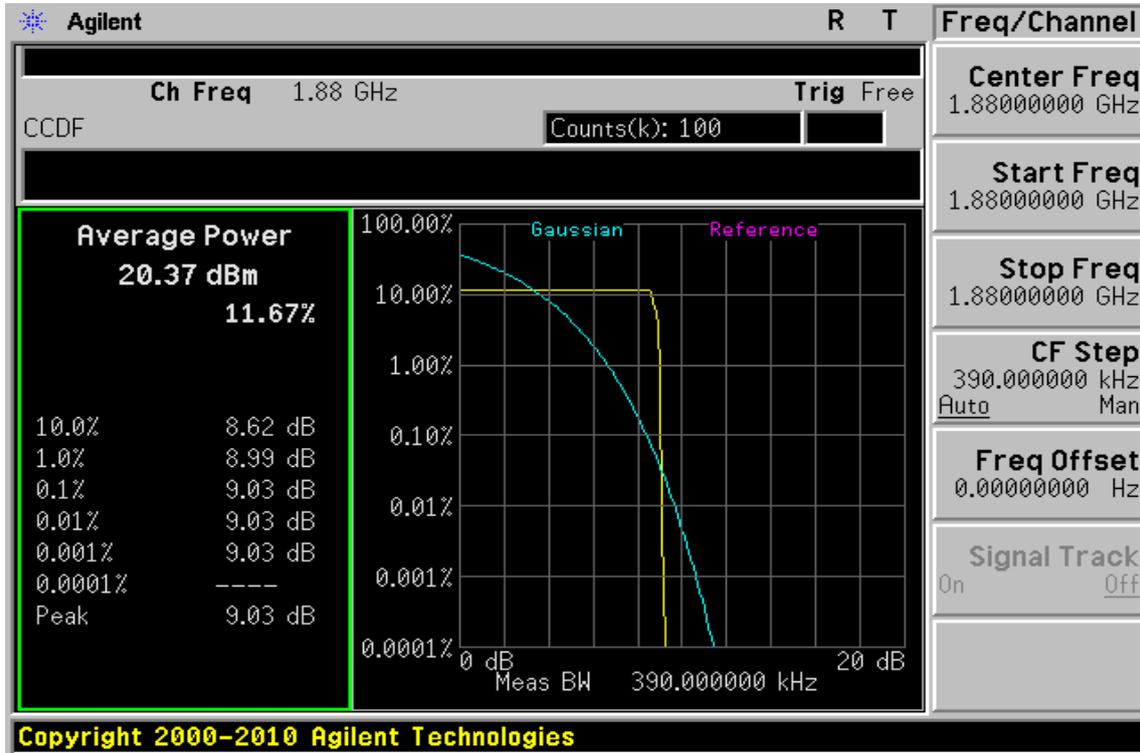
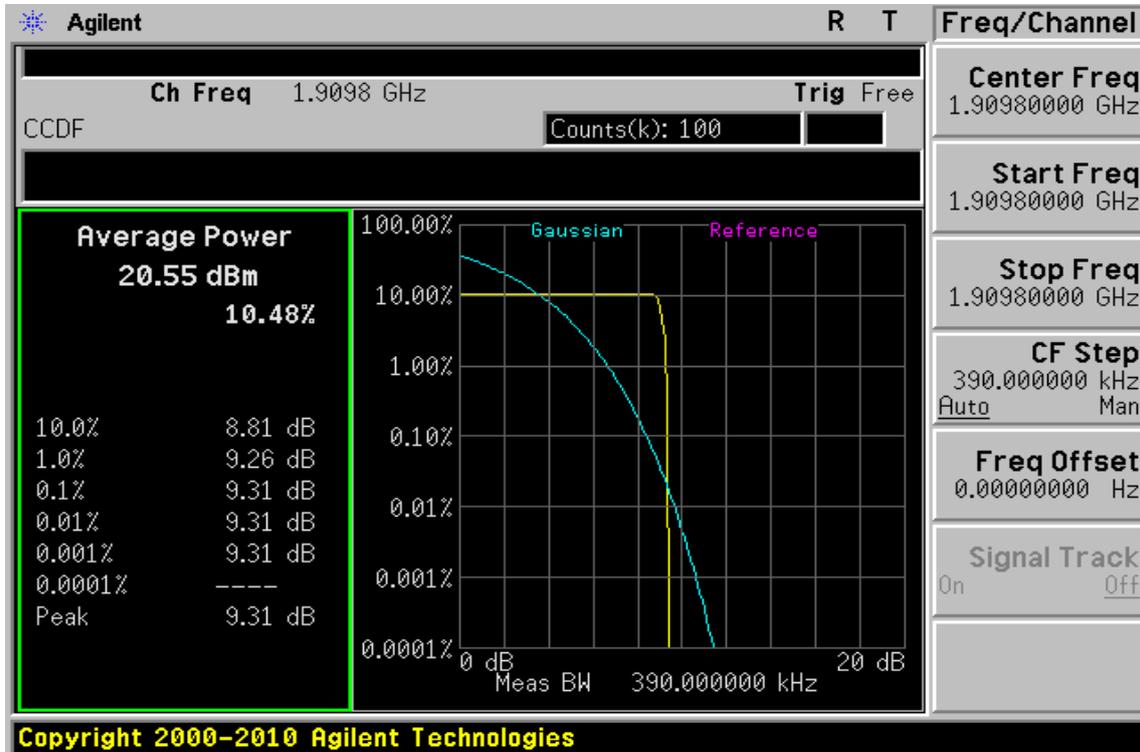


Figure 13-12: GPRS 1900 Channel High



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Figure 13-13: EDGE 850 Channel Low

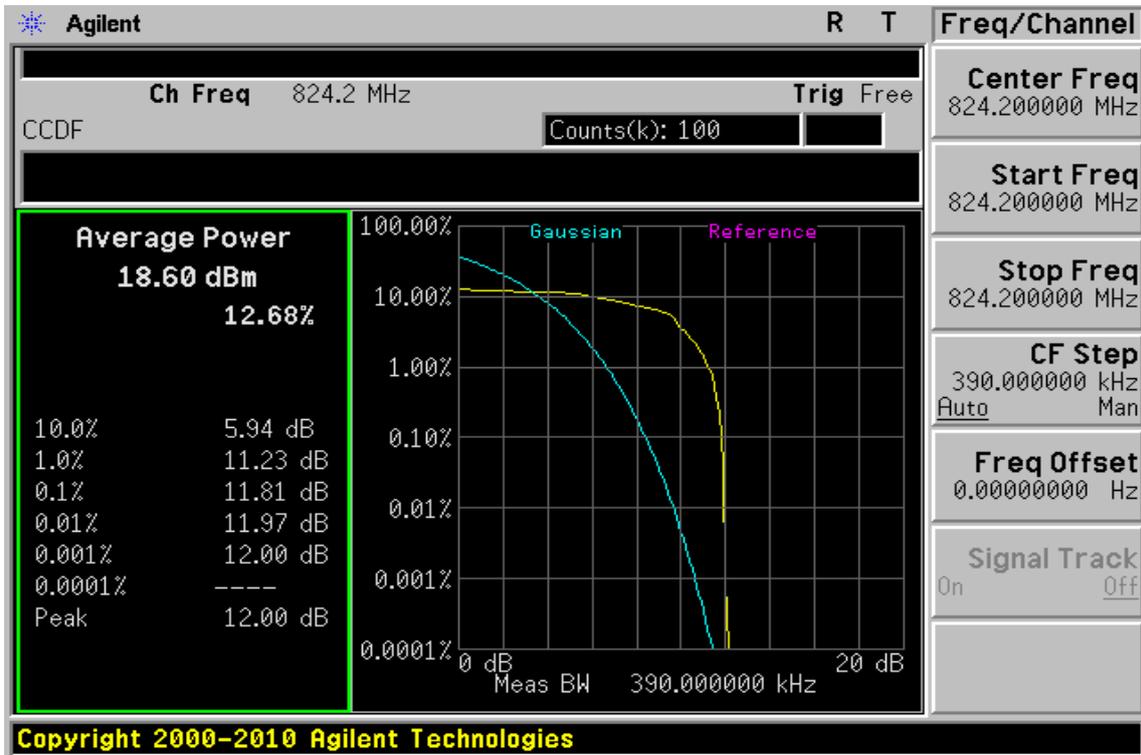
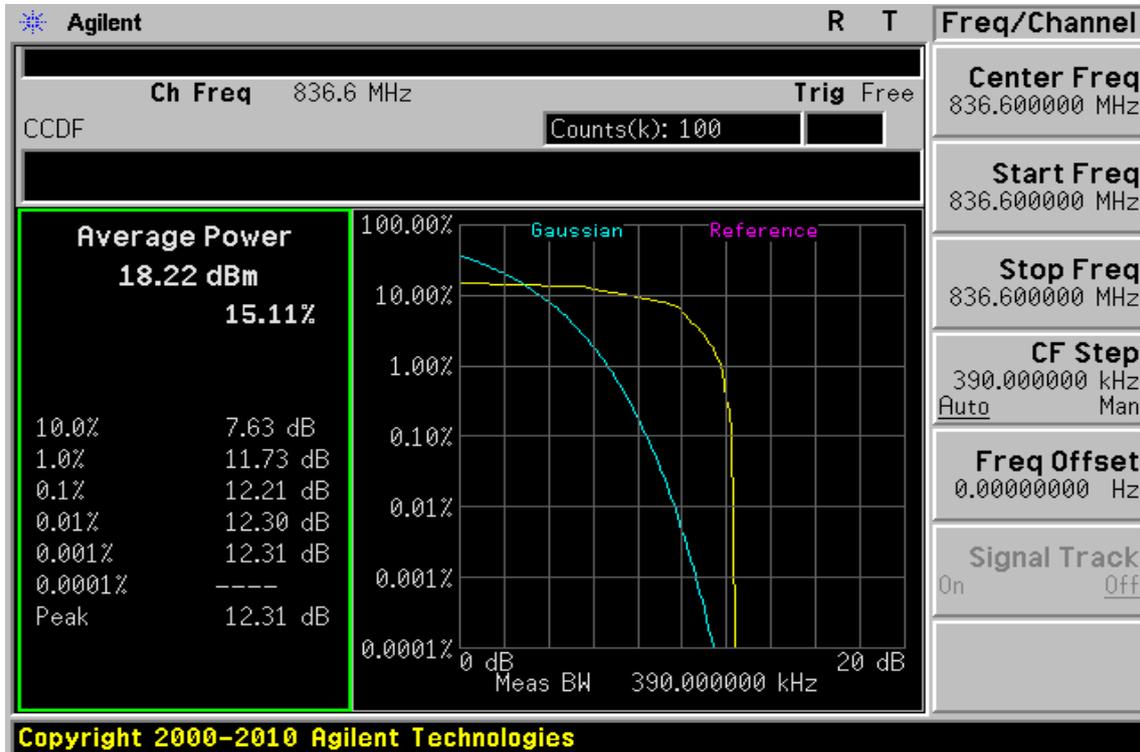


Figure 13-14 EDGE 850 Channel Mid



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Figure 13-15: EDGE 850 Channel High

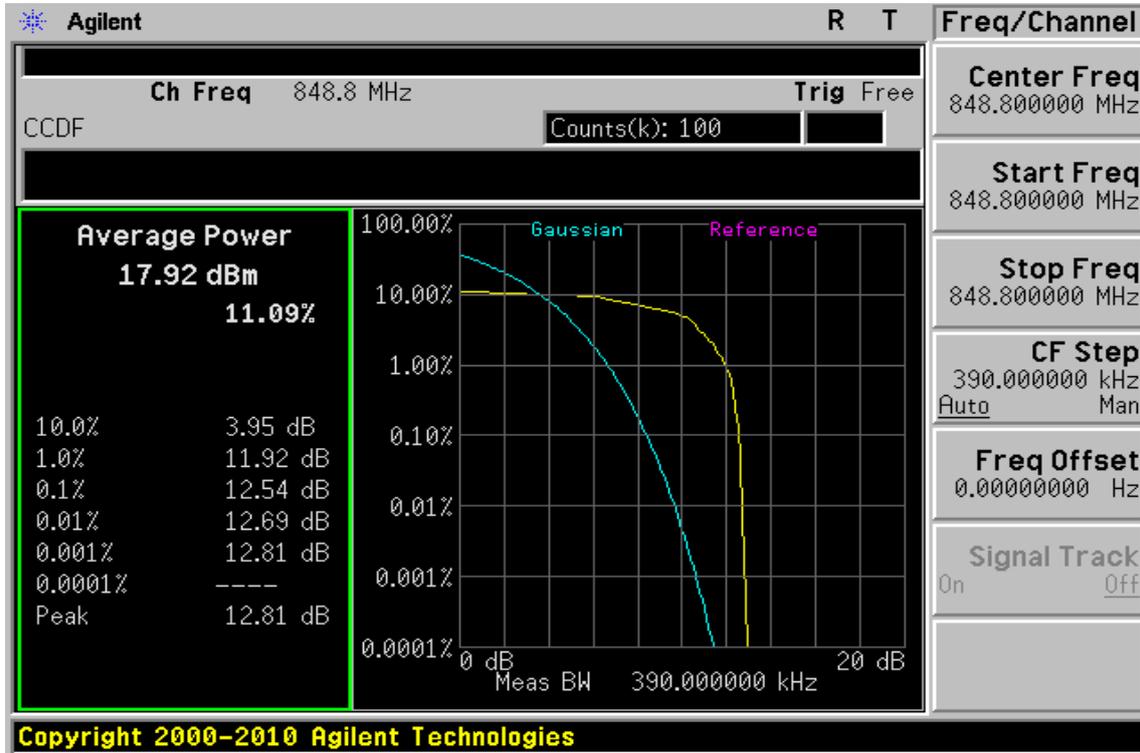
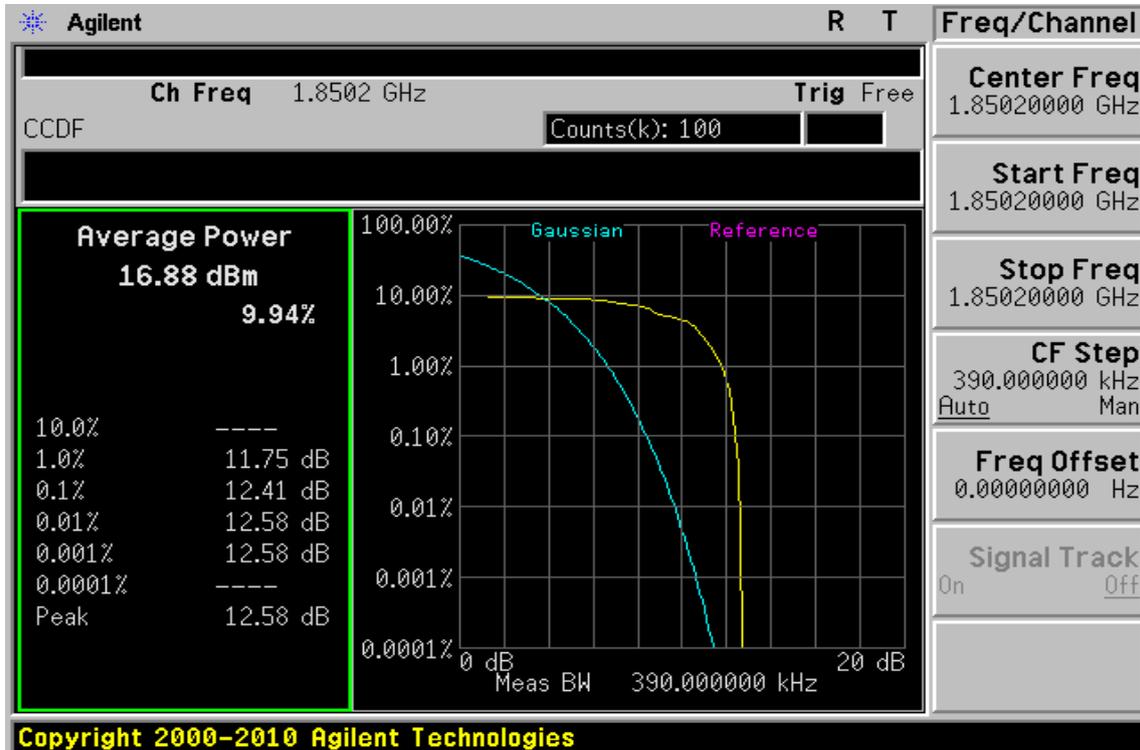


Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid

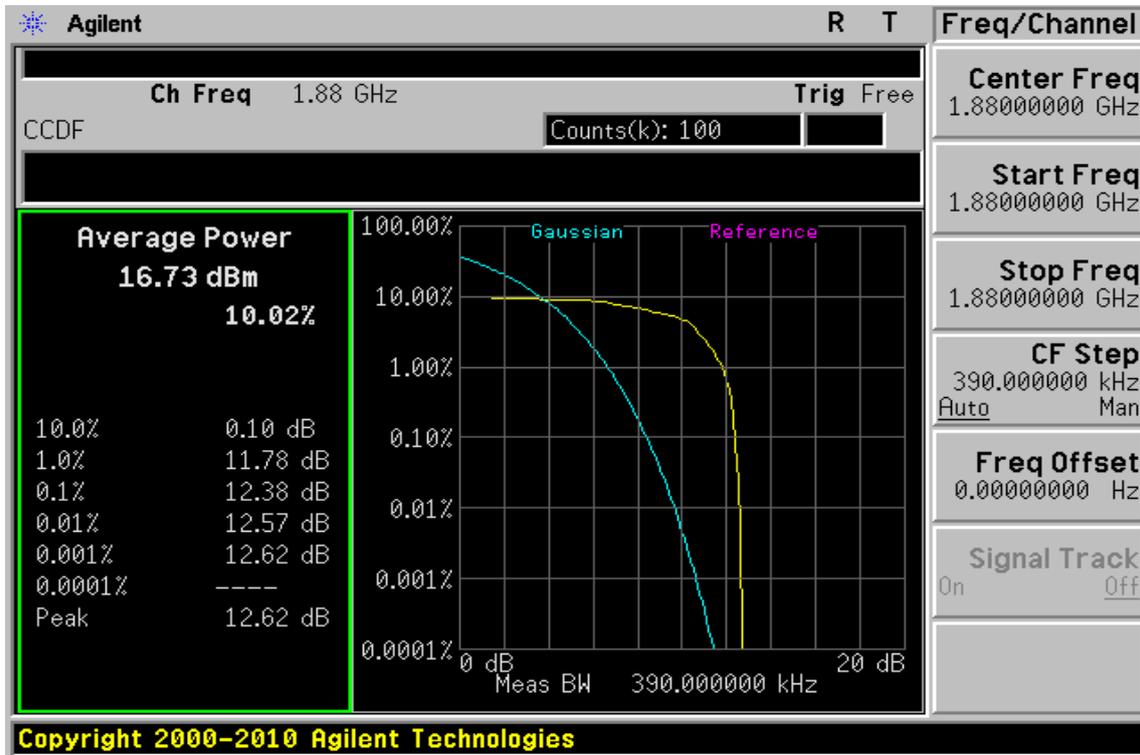
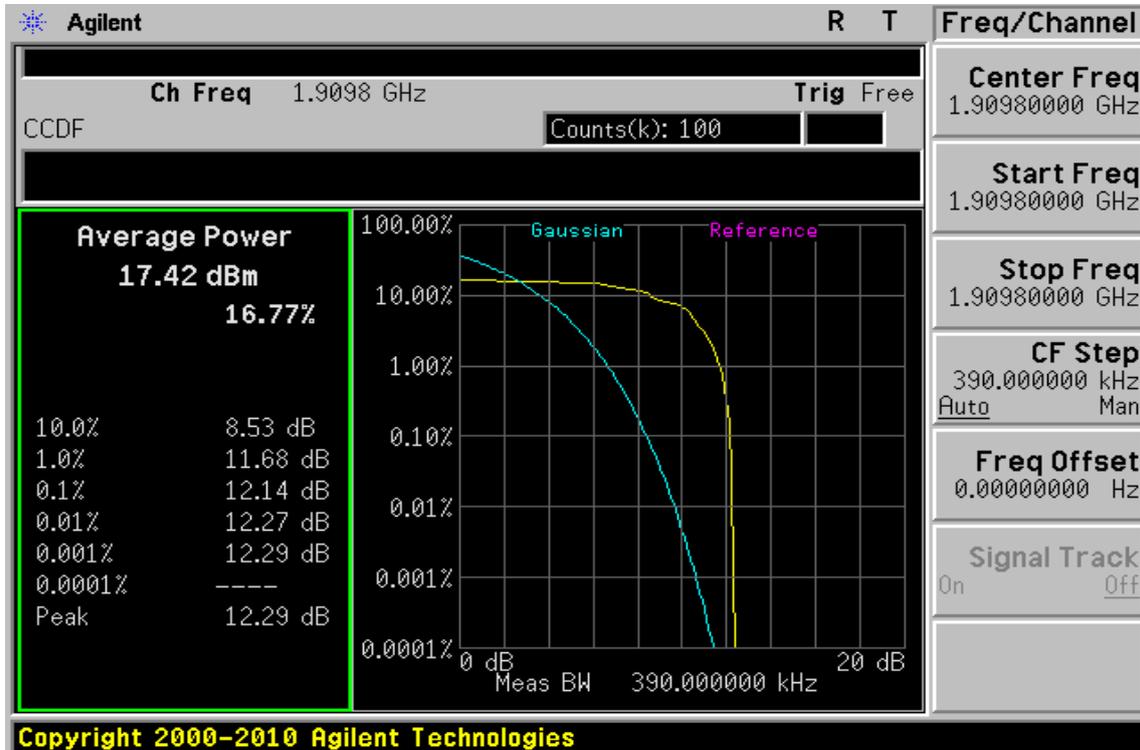


Figure 13-18: EDGE 1900 Channel High



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Figure 13-19: WCDMA Band II Channel Low

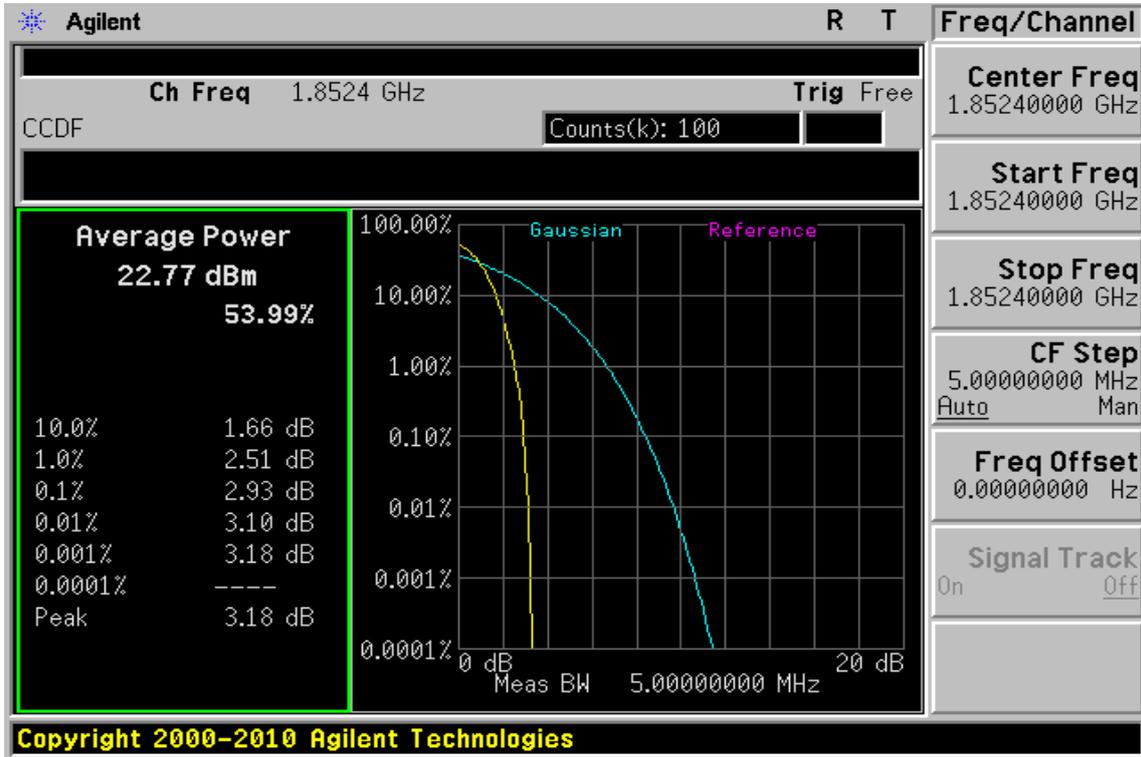
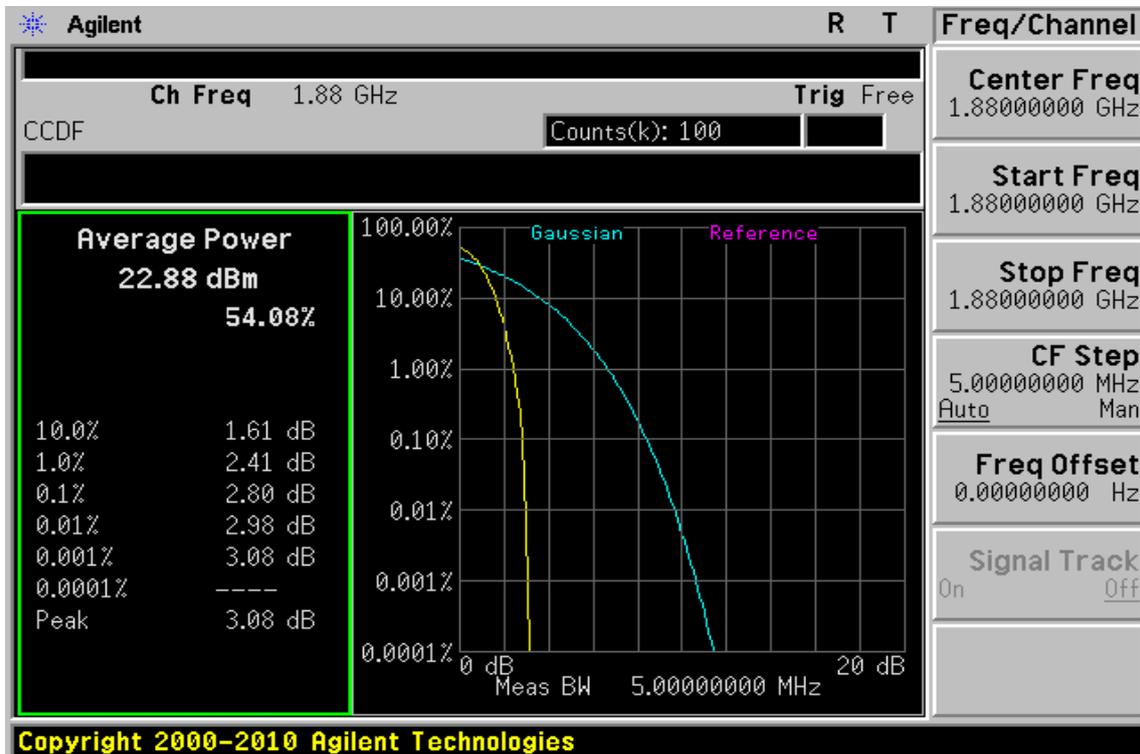


Figure 13-20: WCDMA Band II Channel Mid



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Figure 13-21: WCDMA Band II Channel High

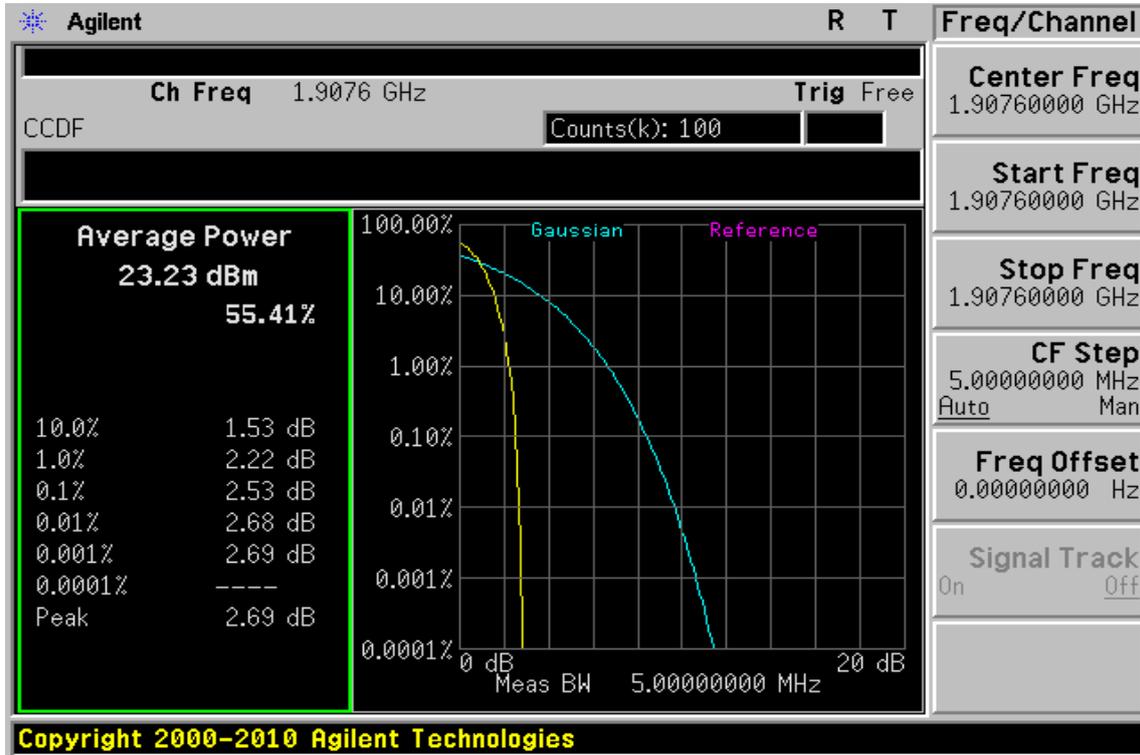
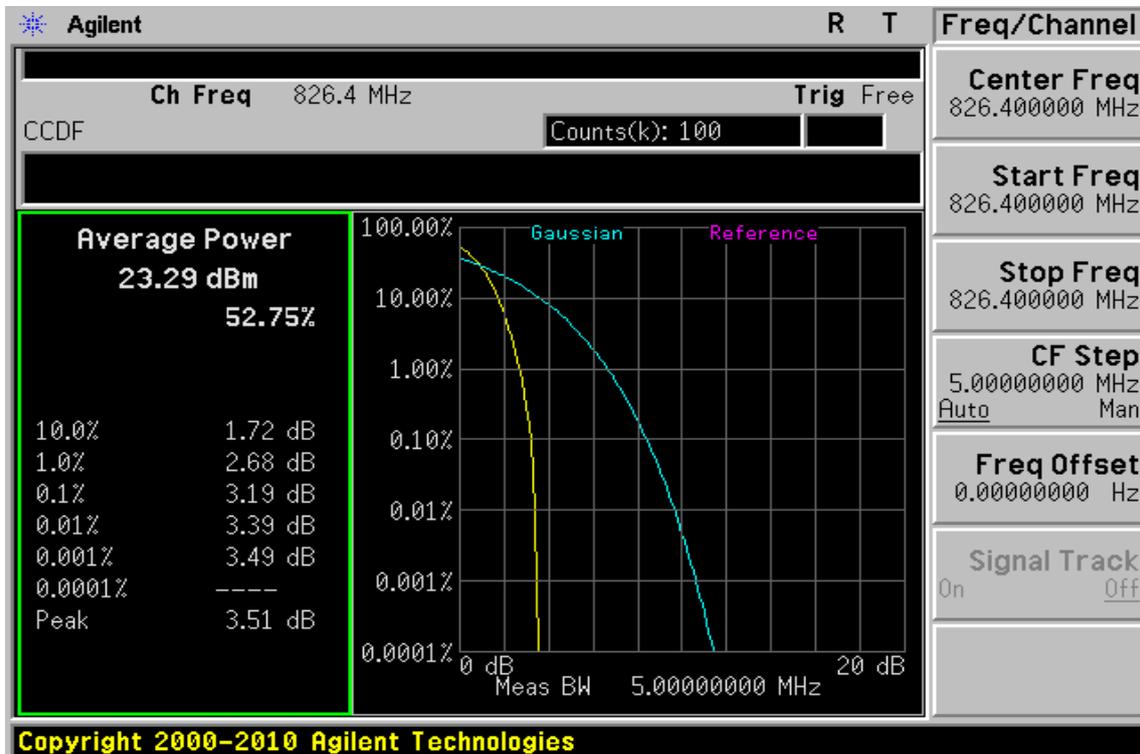


Figure 13-25: WCDMA Band V Channel Low



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Figure 13-26: WCDMA Band V Channel Mid

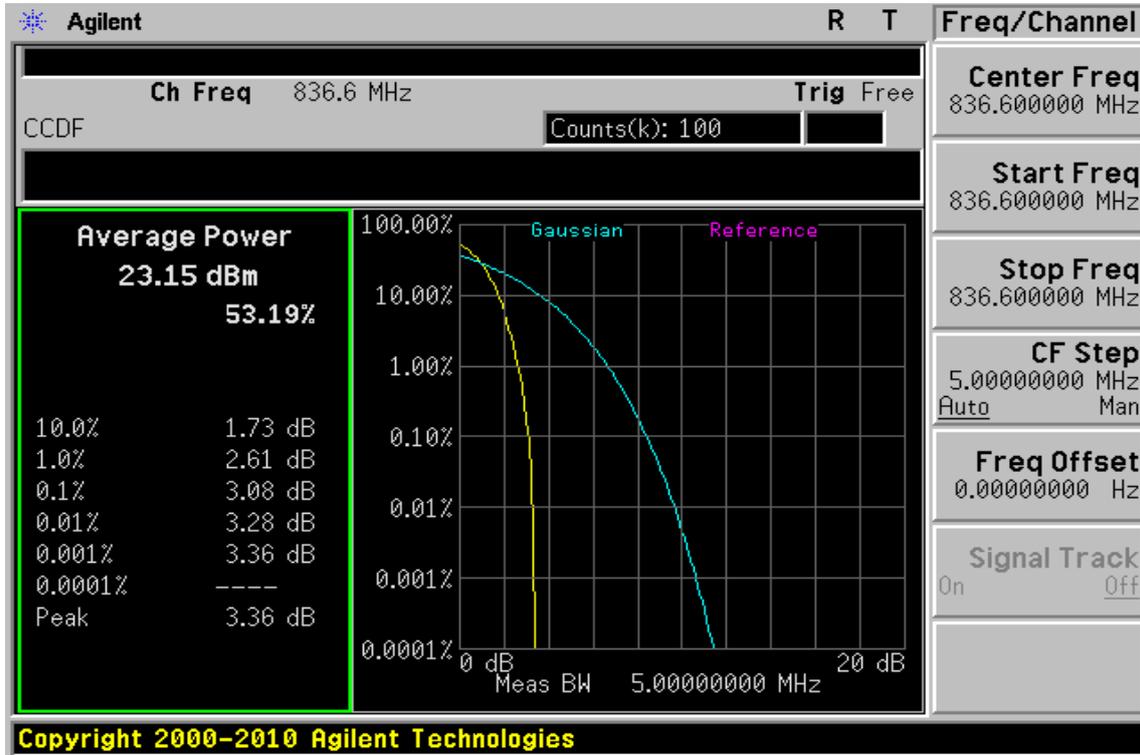
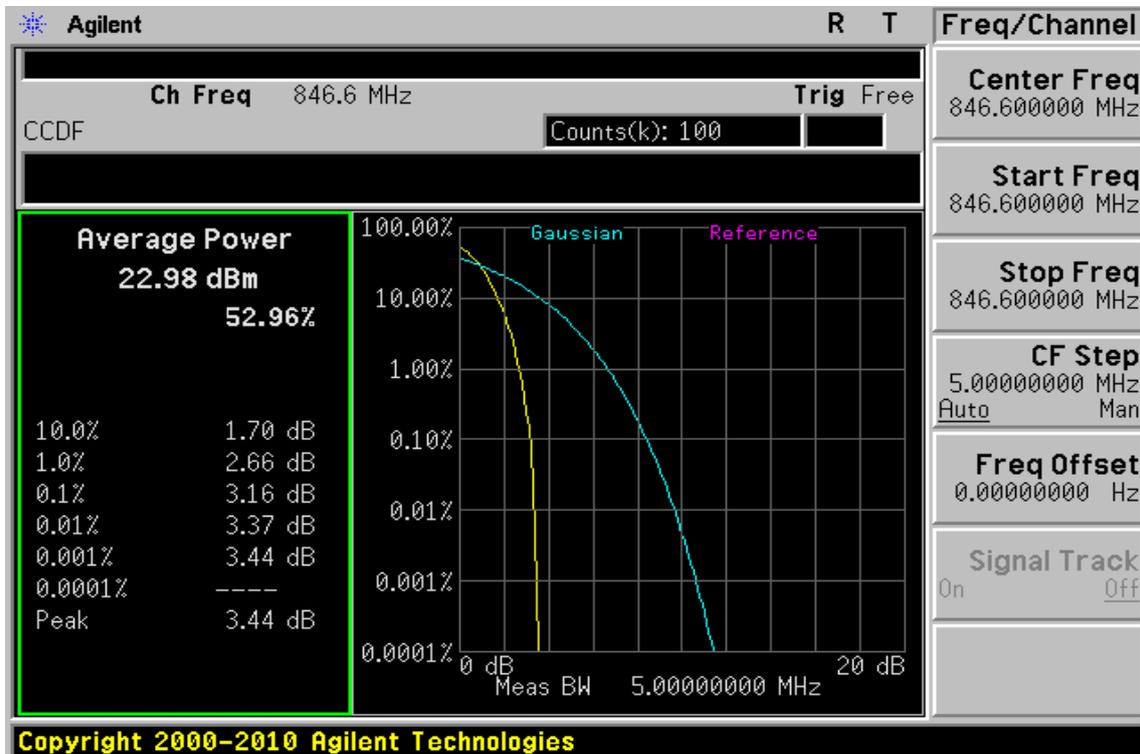


Figure 13-27: WCDMA Band V Channel High



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Figure 13-28: HSDPA Band II Channel Low

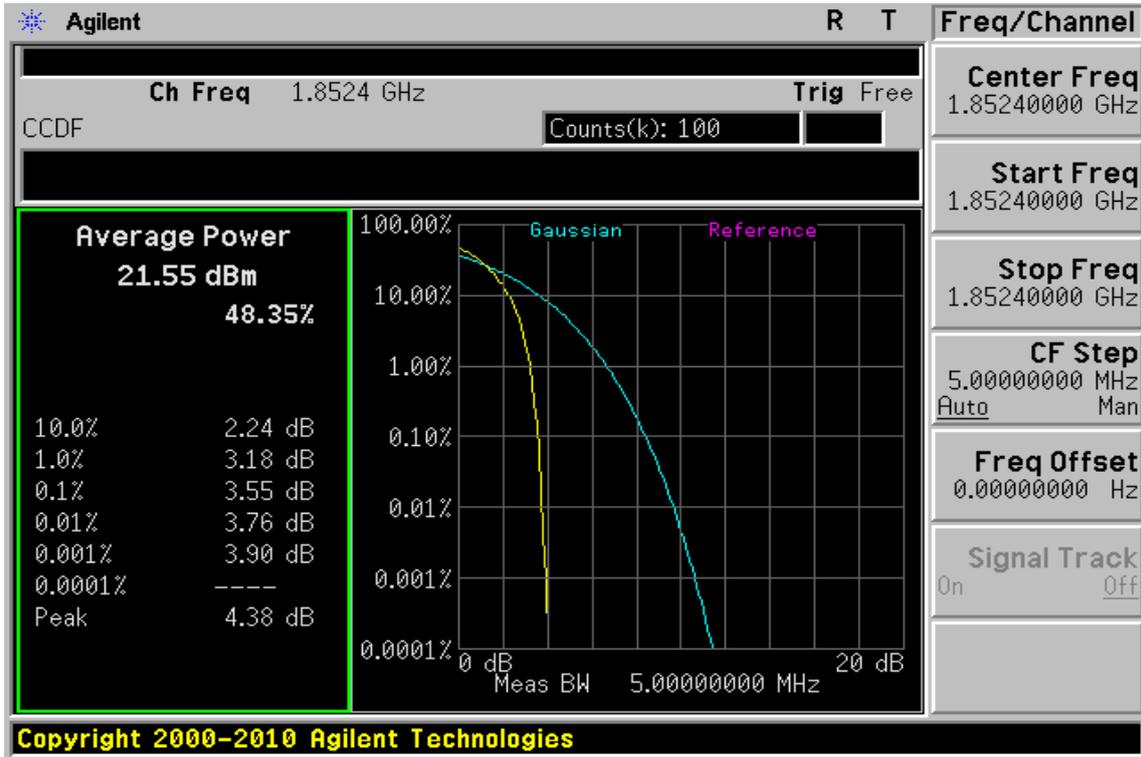
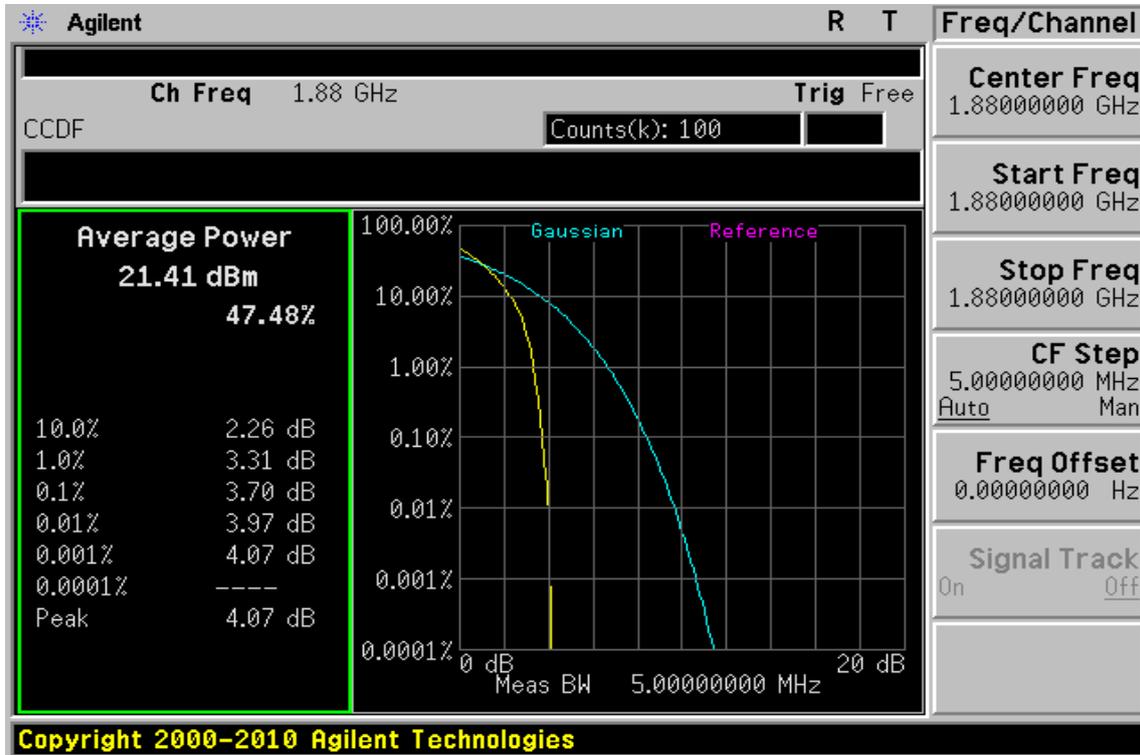


Figure 13-29: HSDPA Band II Channel Mid



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Figure 13-30: HSDPA Band II Channel High

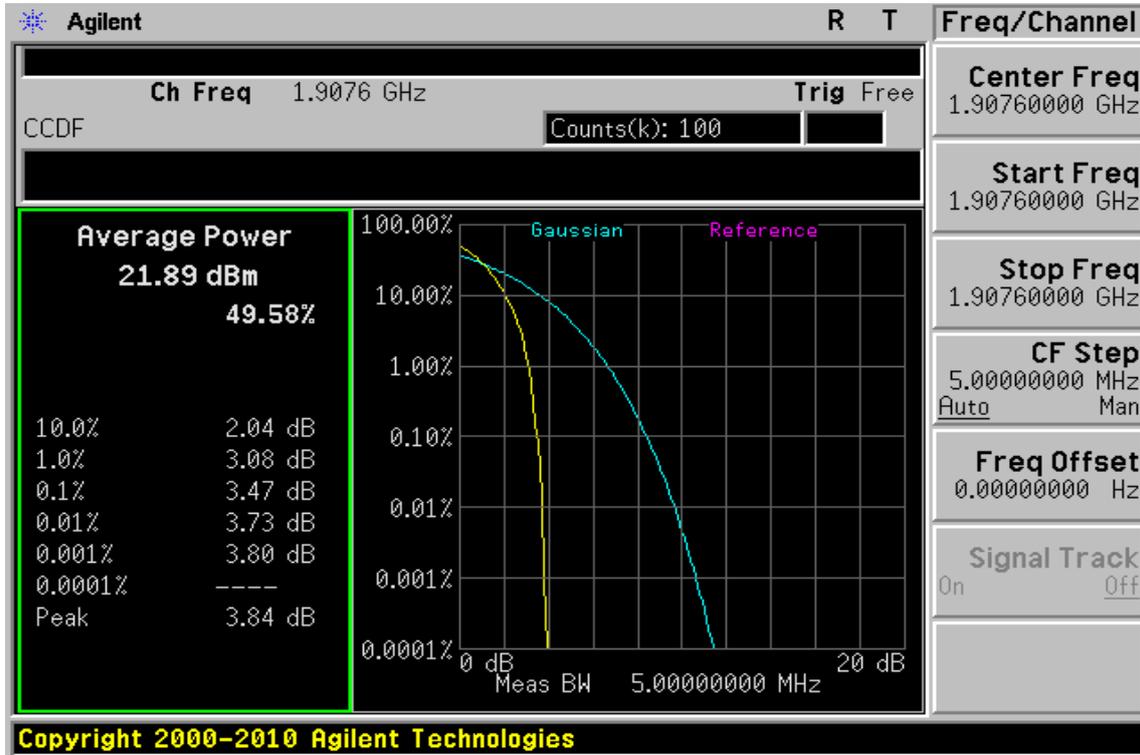
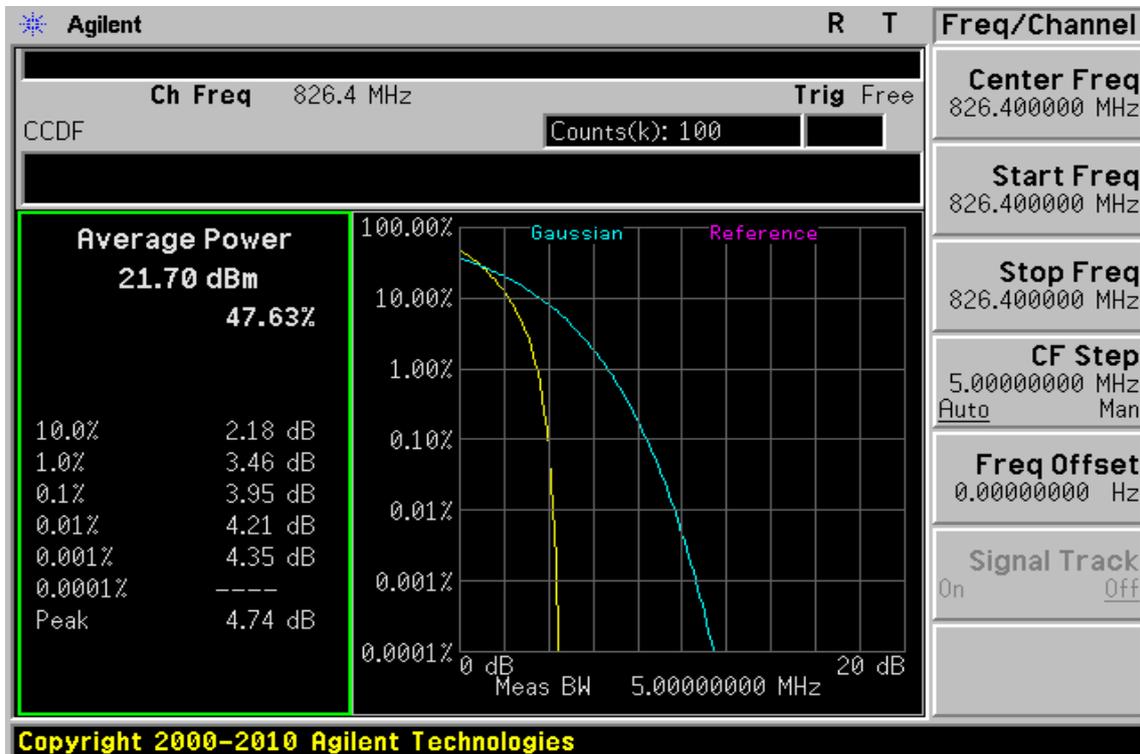


Figure 13-34: HSDPA Band V Channel Low



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Figure 13-35: HSDPA Band V Channel Mid

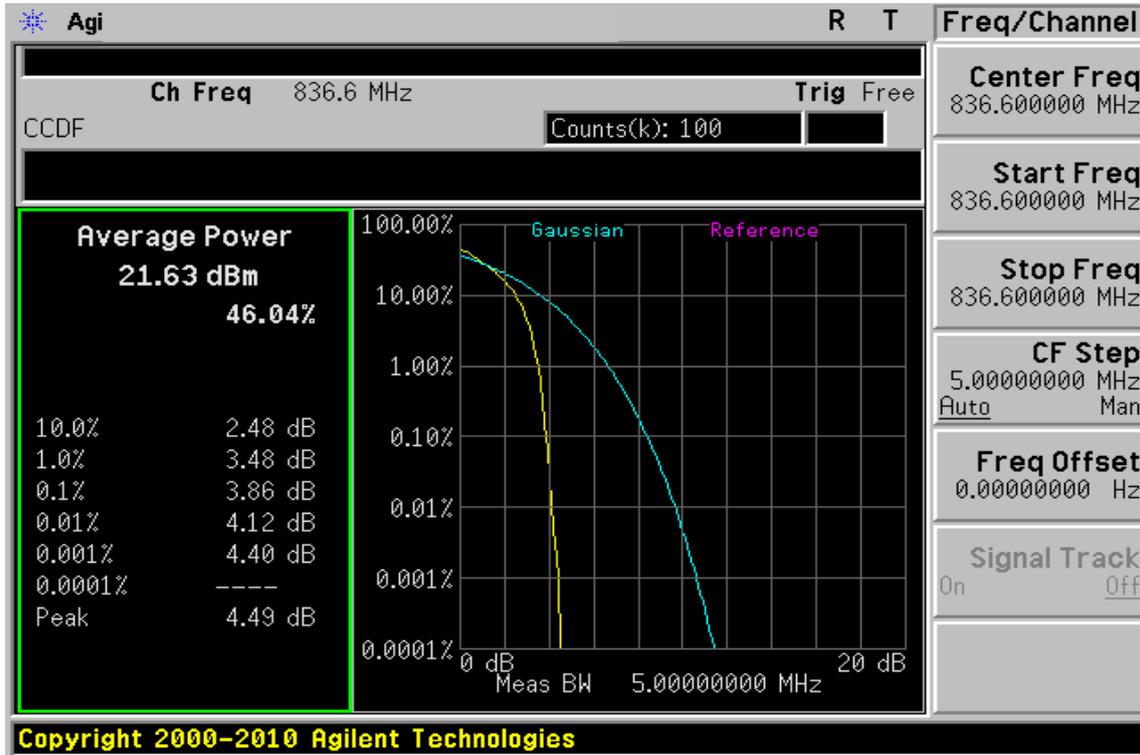
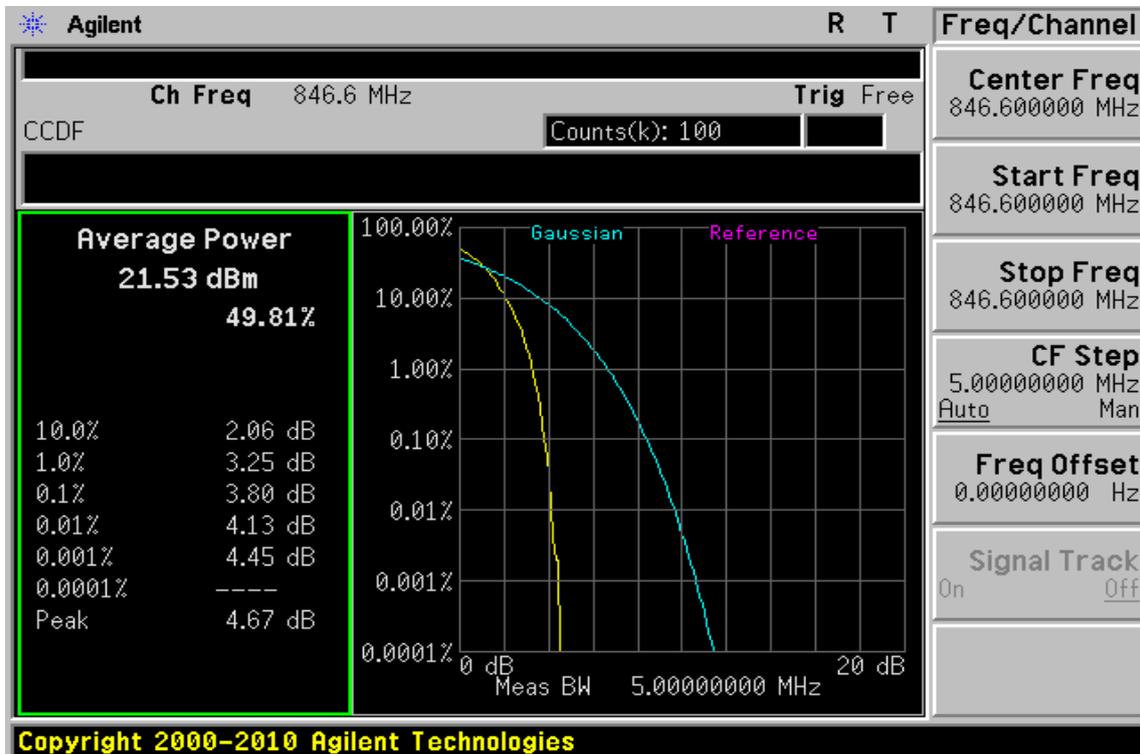


Figure 13-36: HSDPA Band V Channel High



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Figure 13-37: HSUPA Band II Channel Low

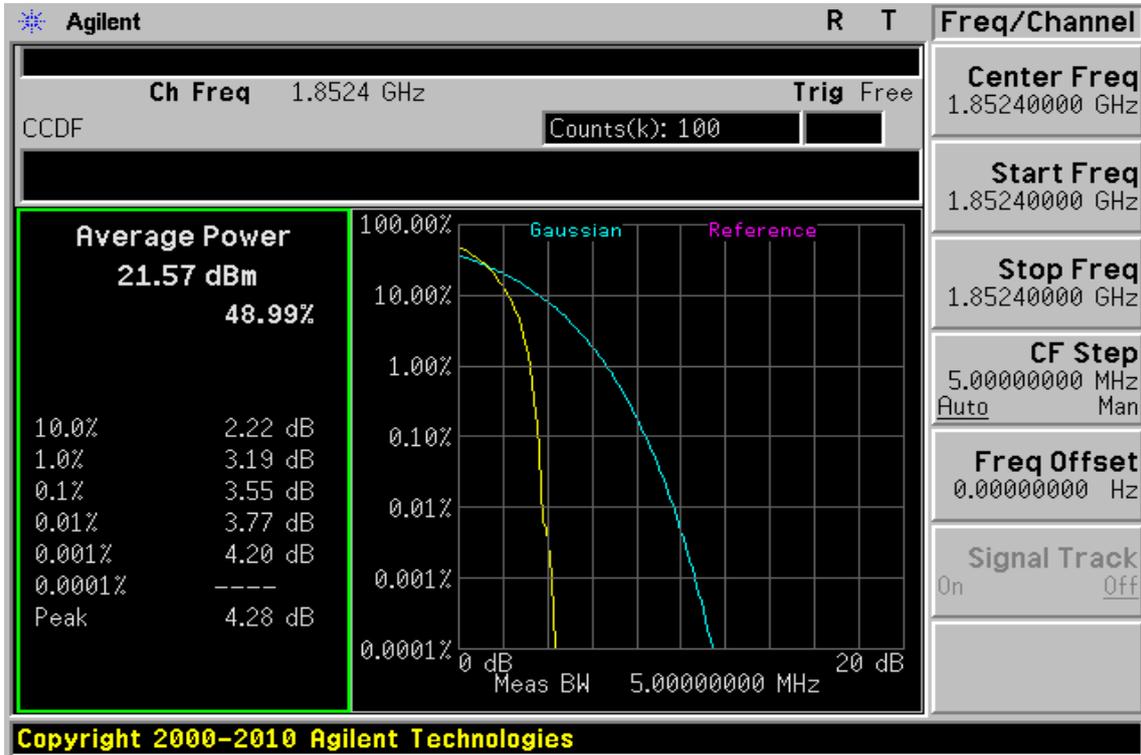
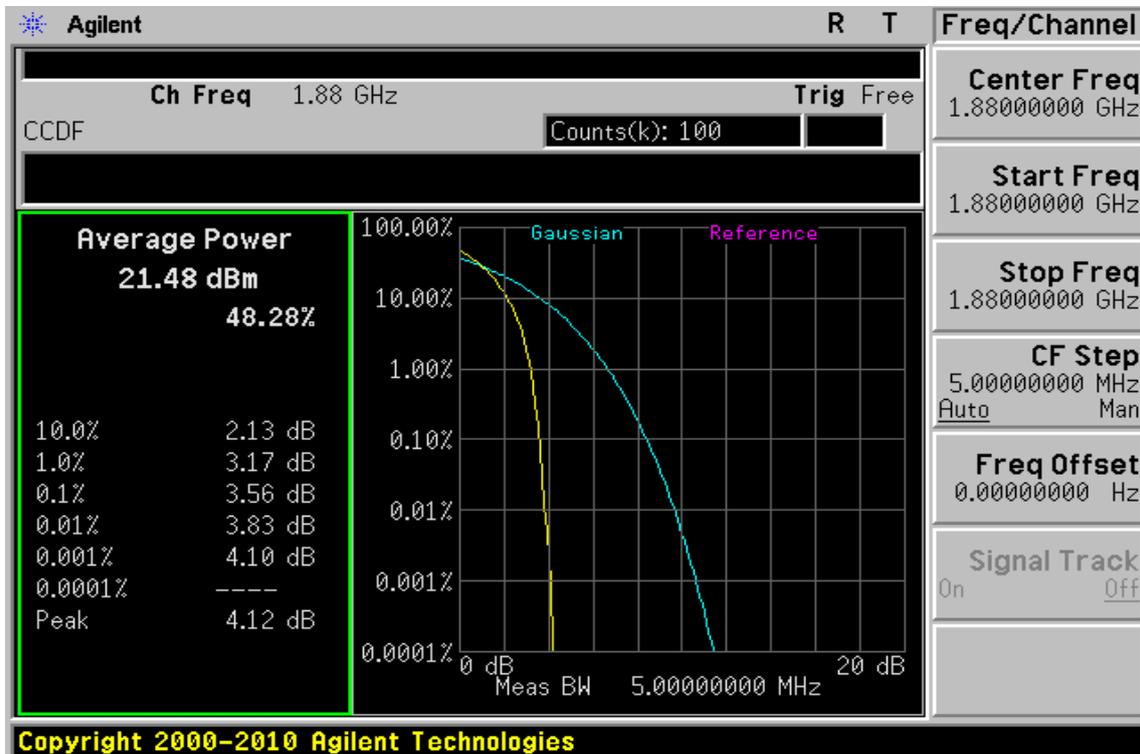


Figure 13-38: HSUPA Band II Channel Mid



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Figure 13-39: HSUPA Band II Channel High

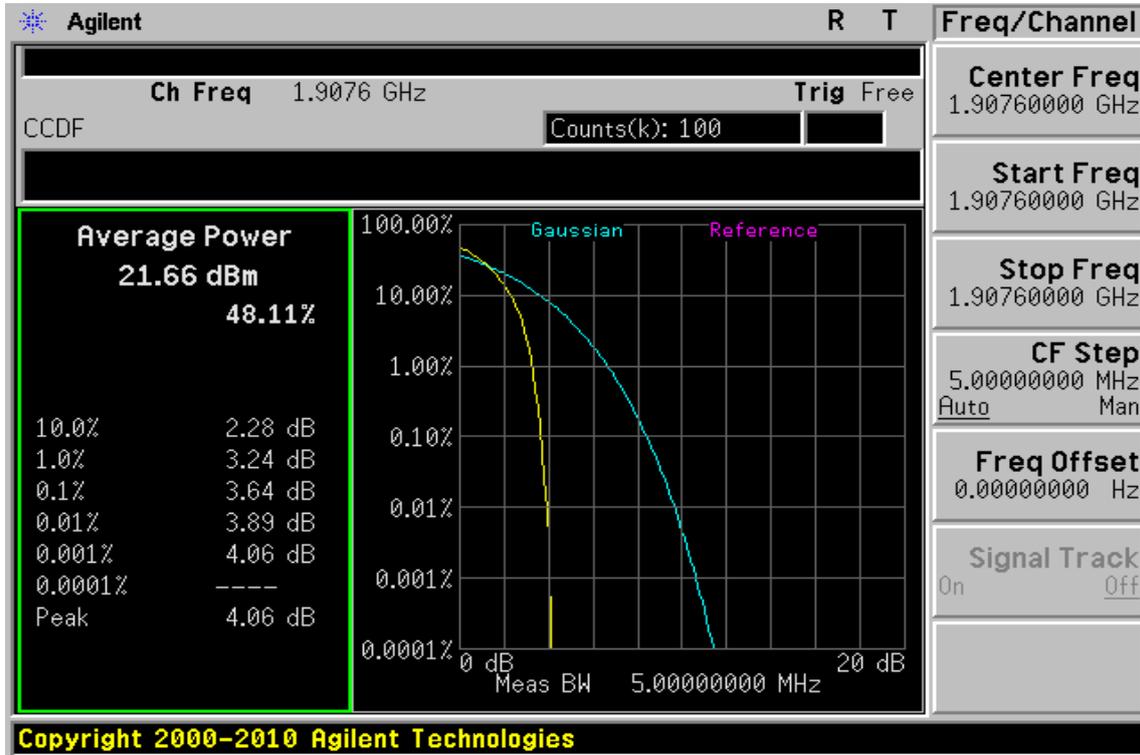
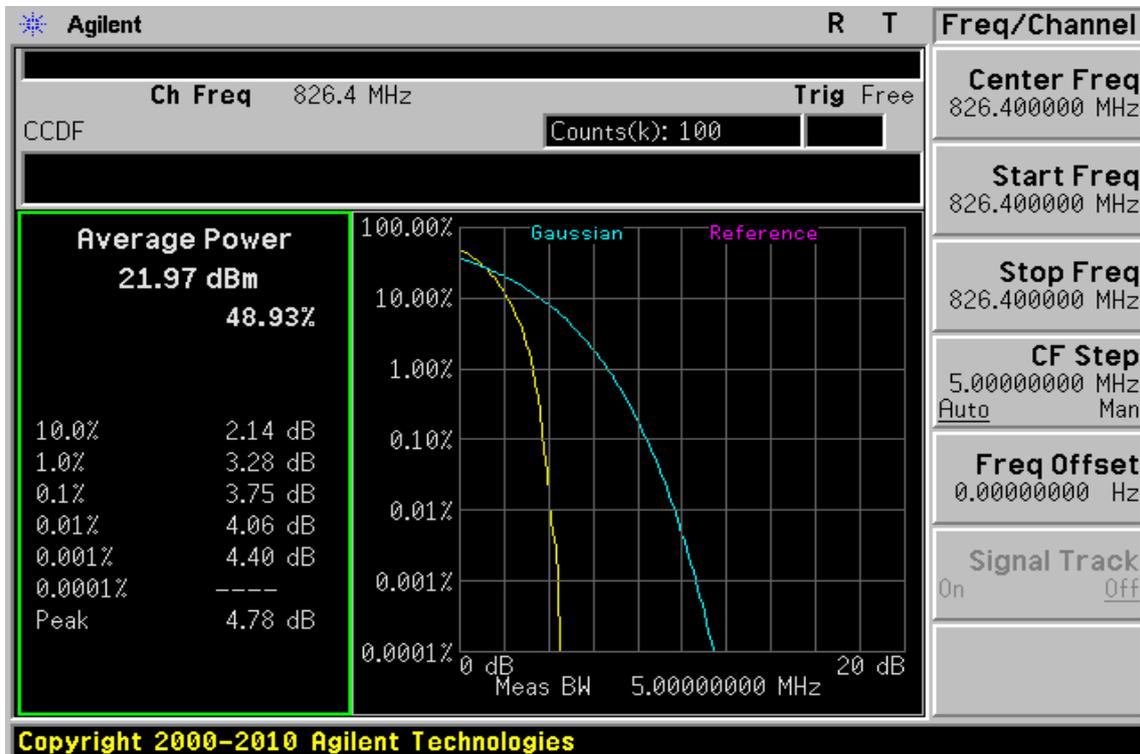


Figure 13-43: HSUPA Band V Channel Low



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Figure 13-44: HSUPA Band V Channel Mid

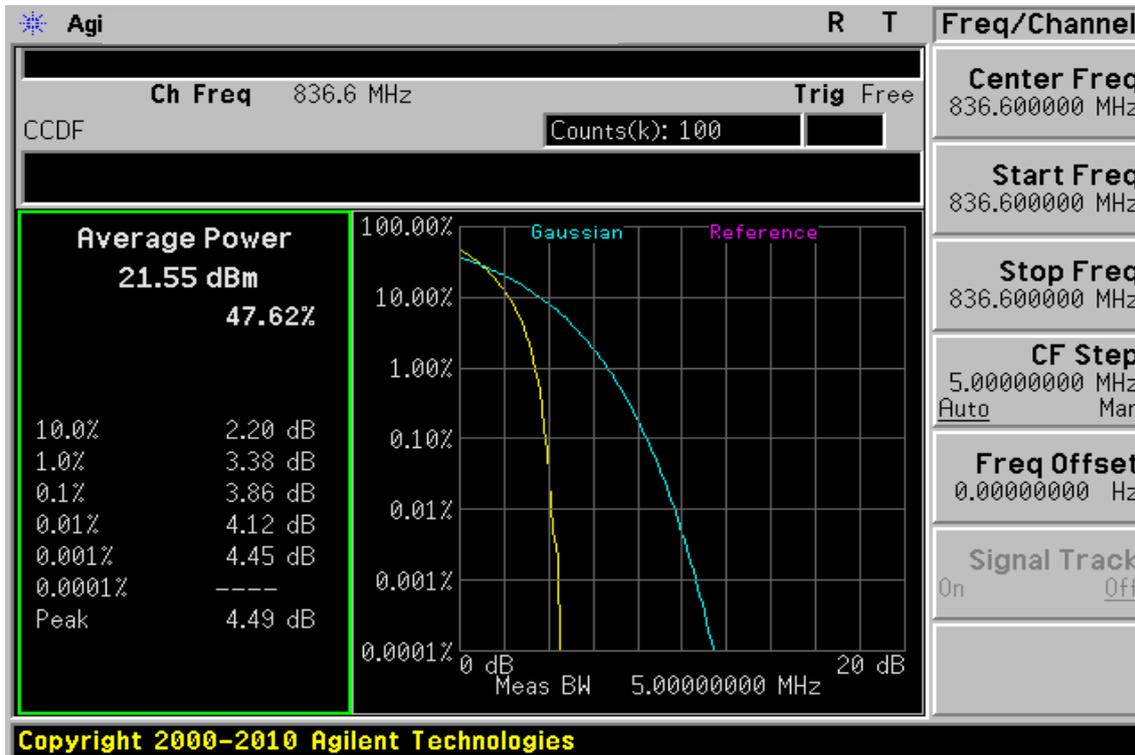
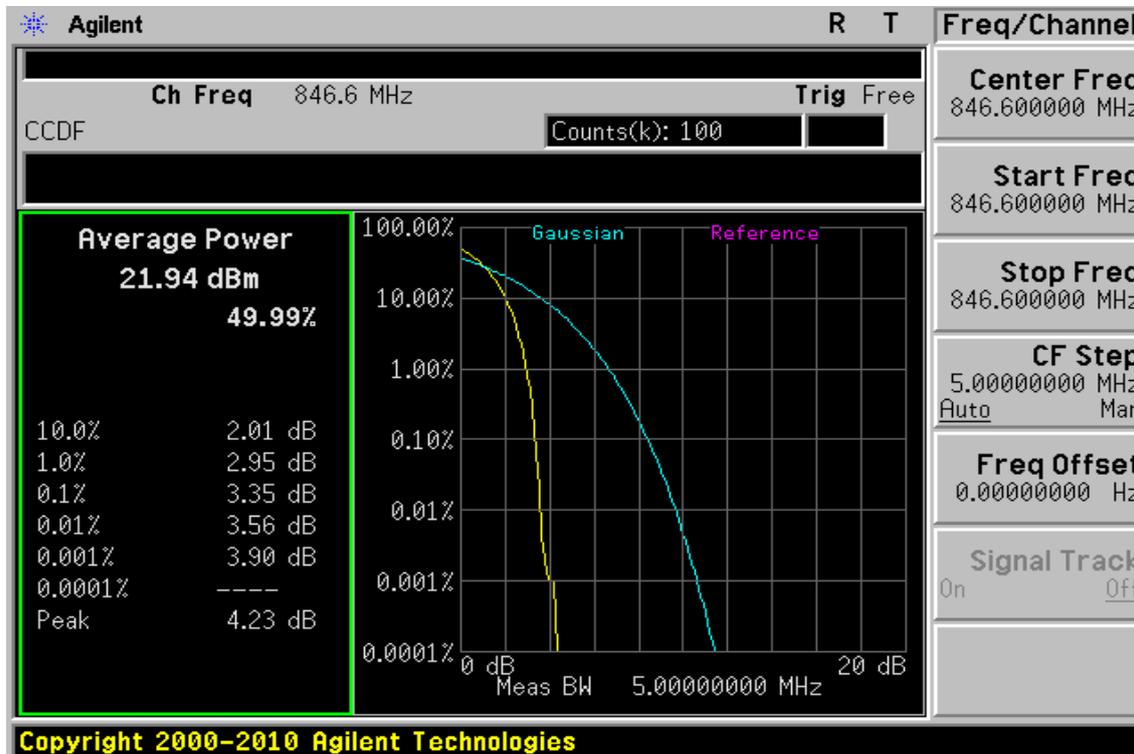


Figure 13-45: HSUPA Band V Channel High



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Figure 13-46: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low

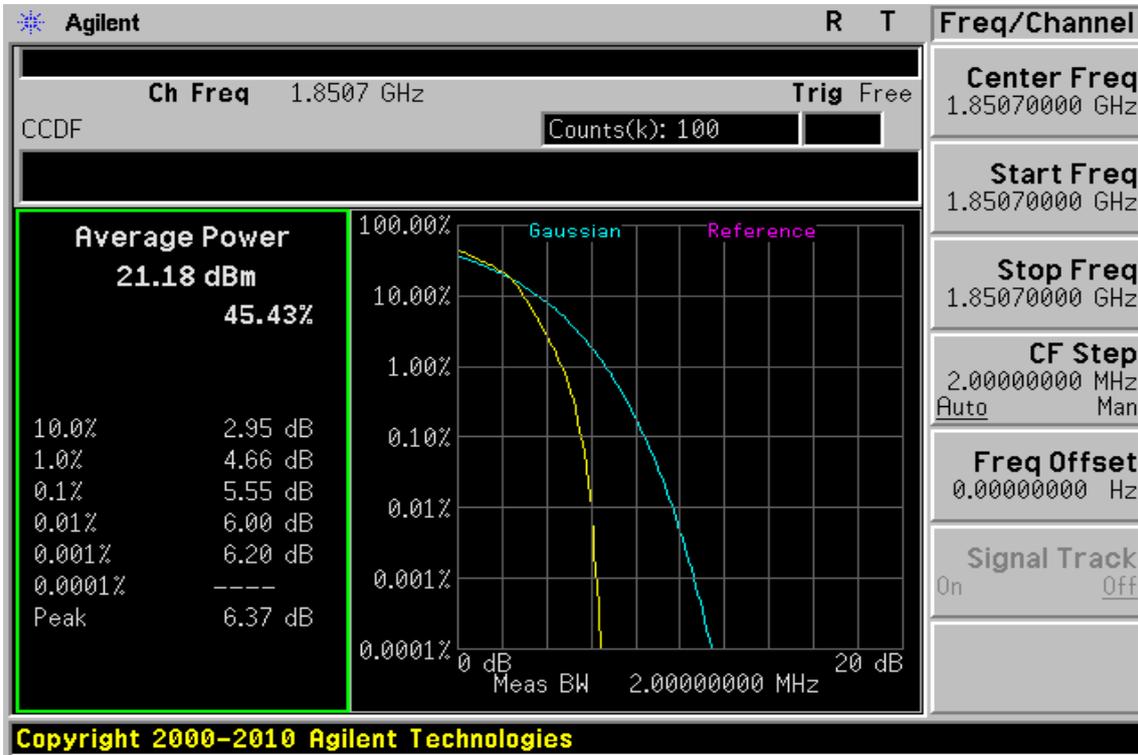
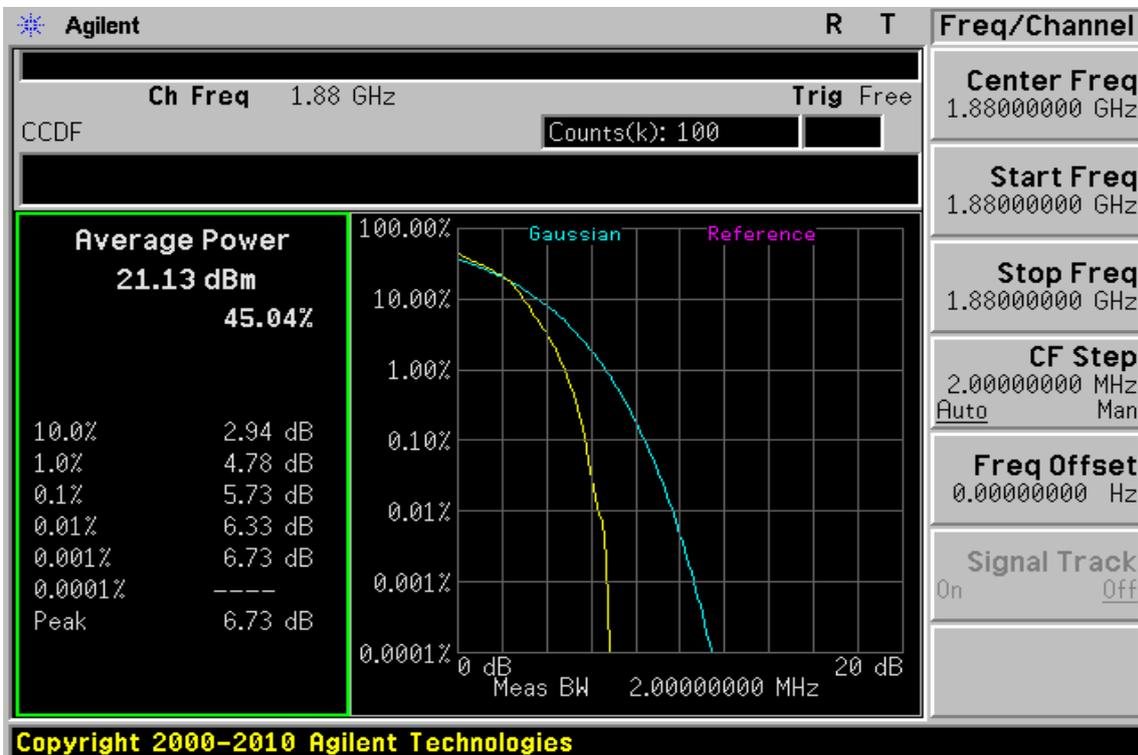


Figure 13-47: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-48: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High

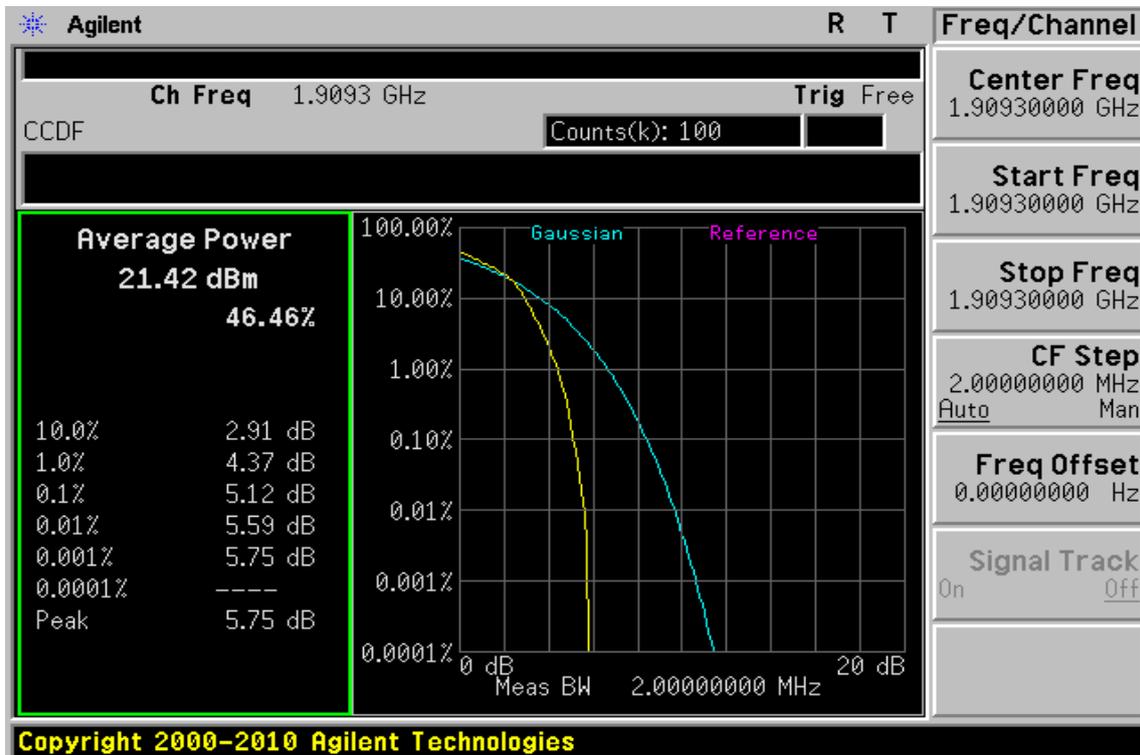
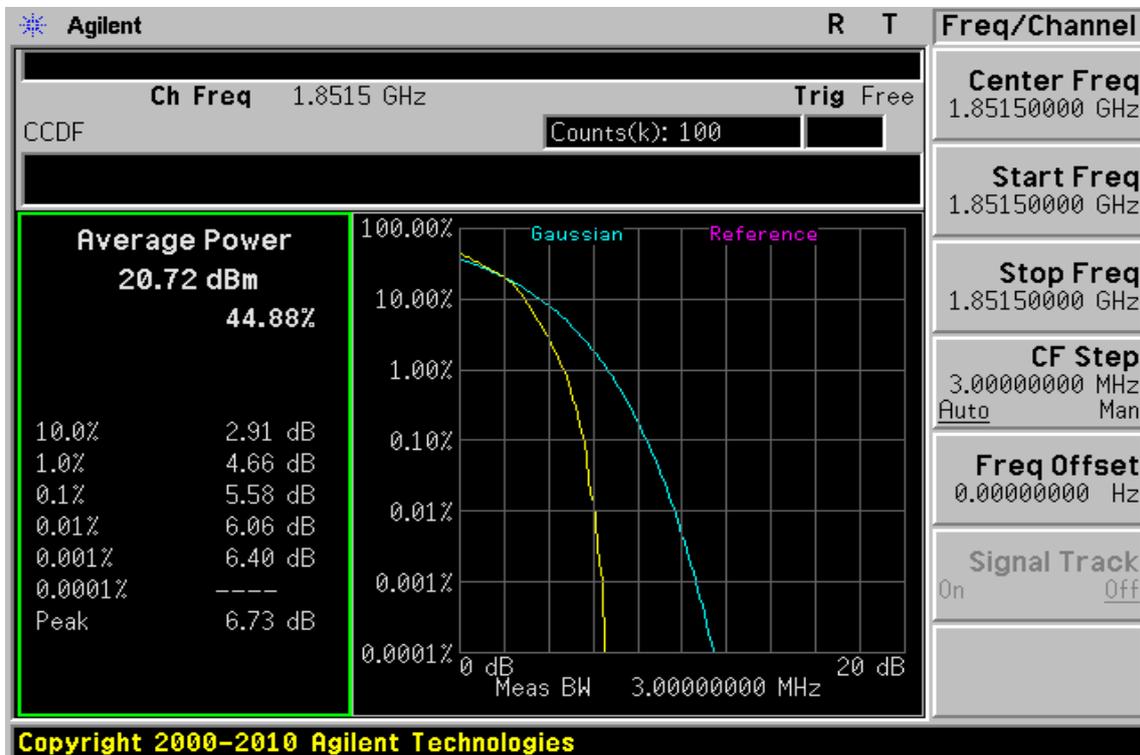


Figure 13-49: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-50: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid

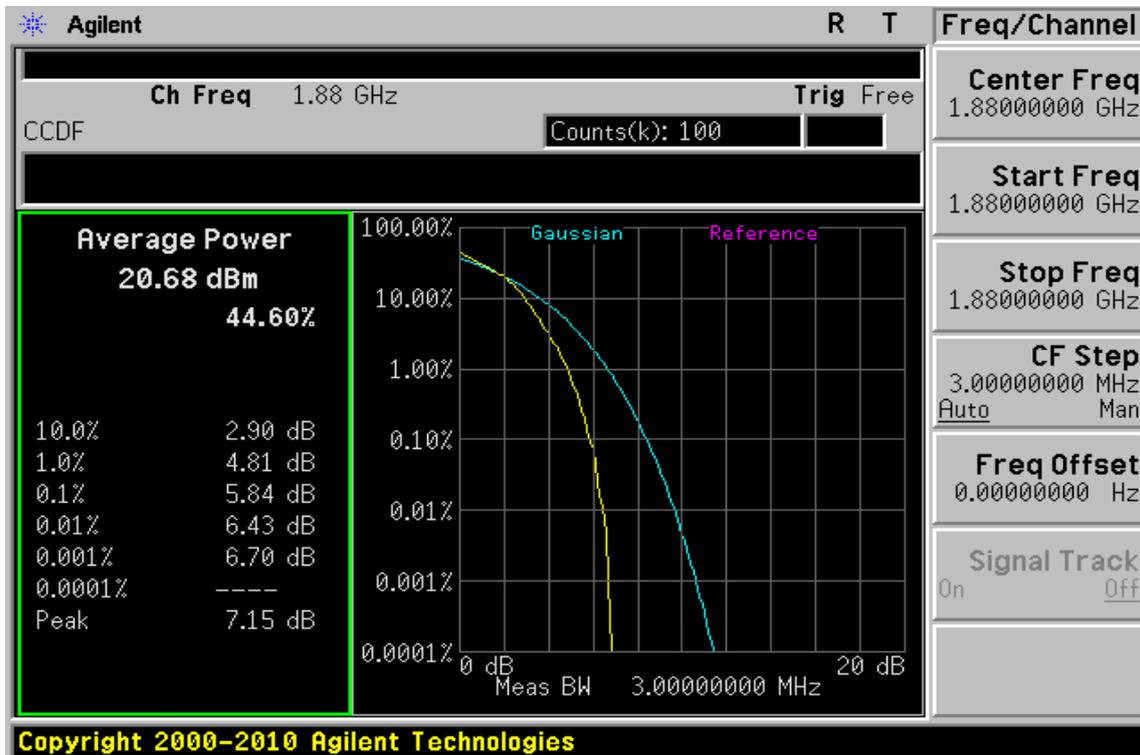
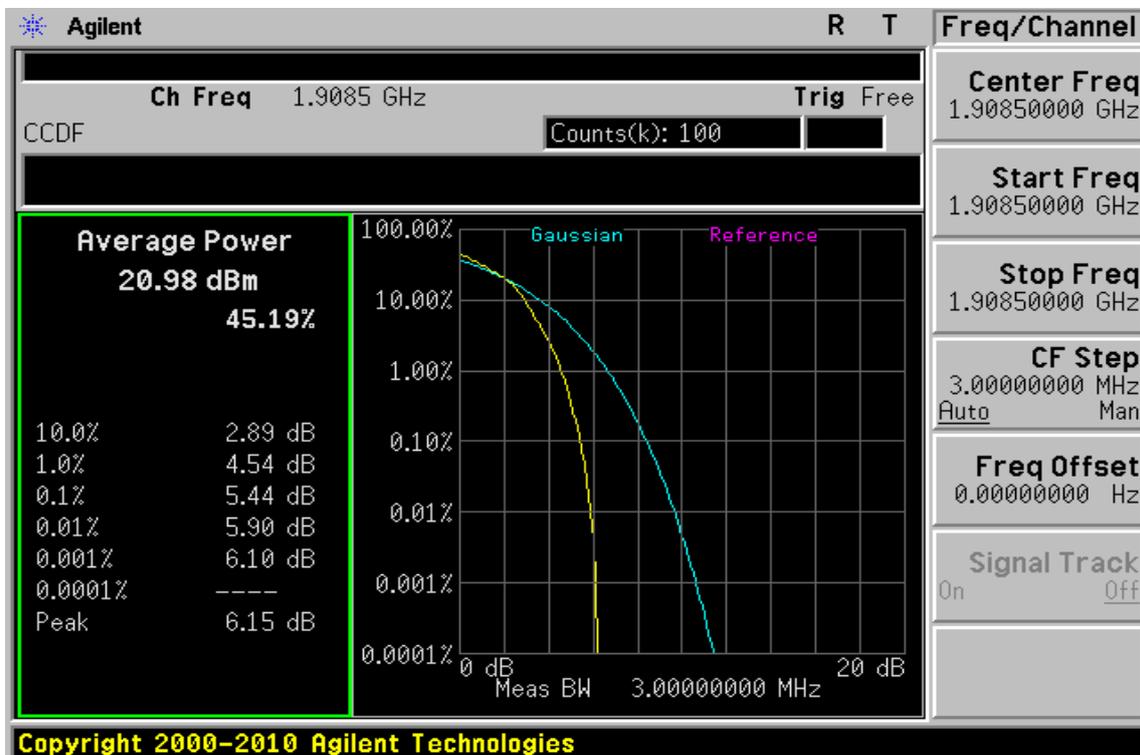


Figure 13-51: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-52: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low

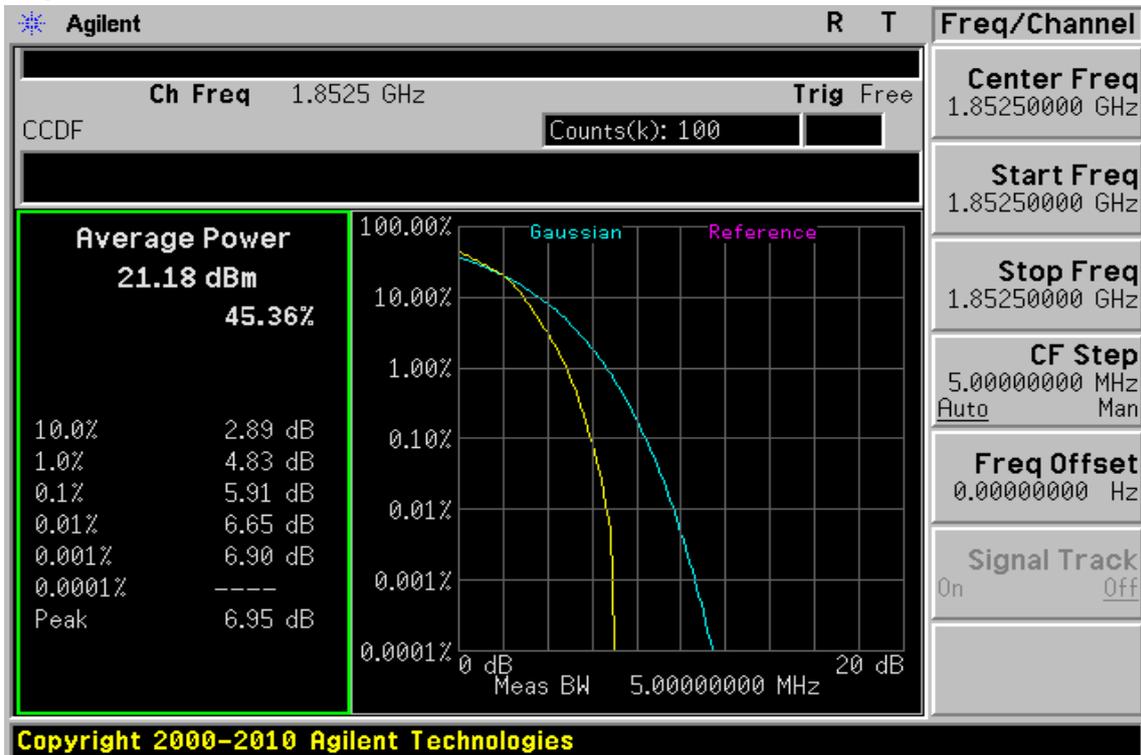
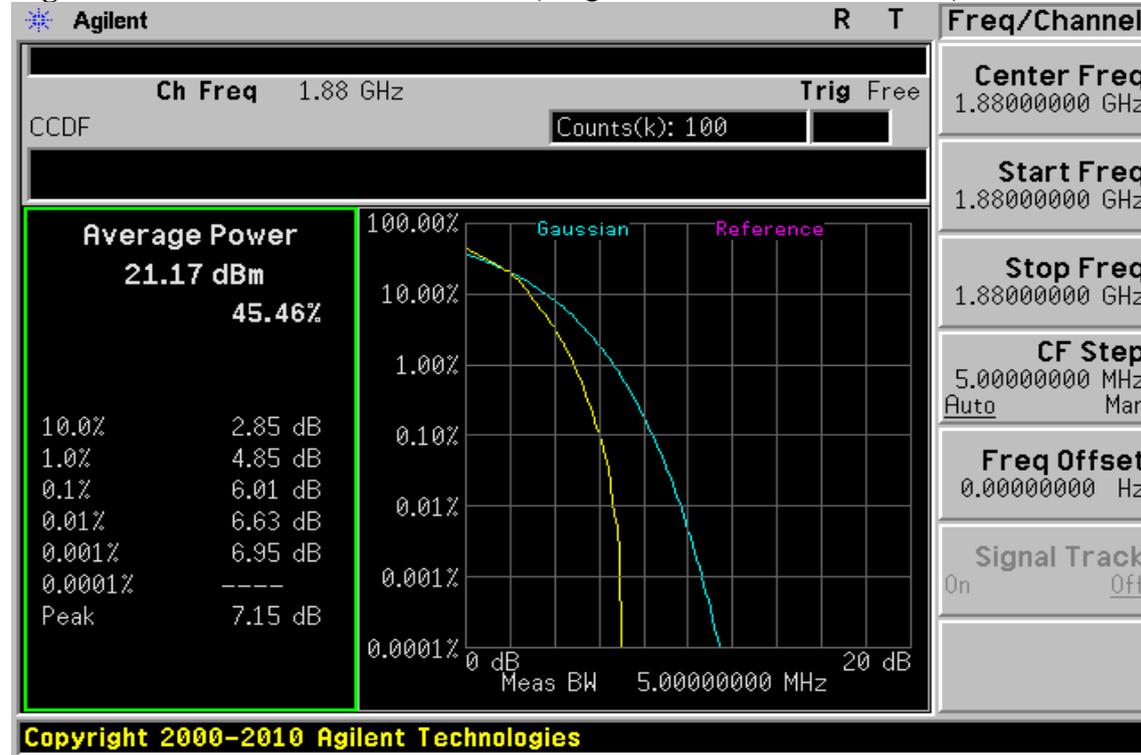


Figure 13-53: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-54: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High

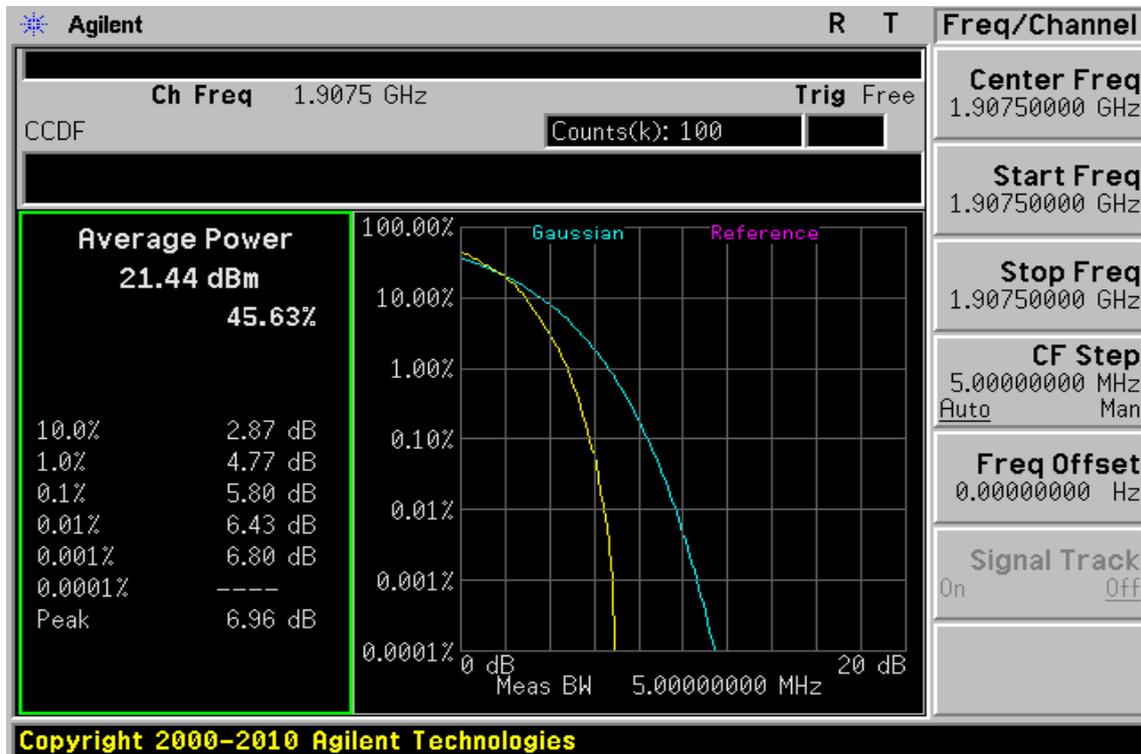
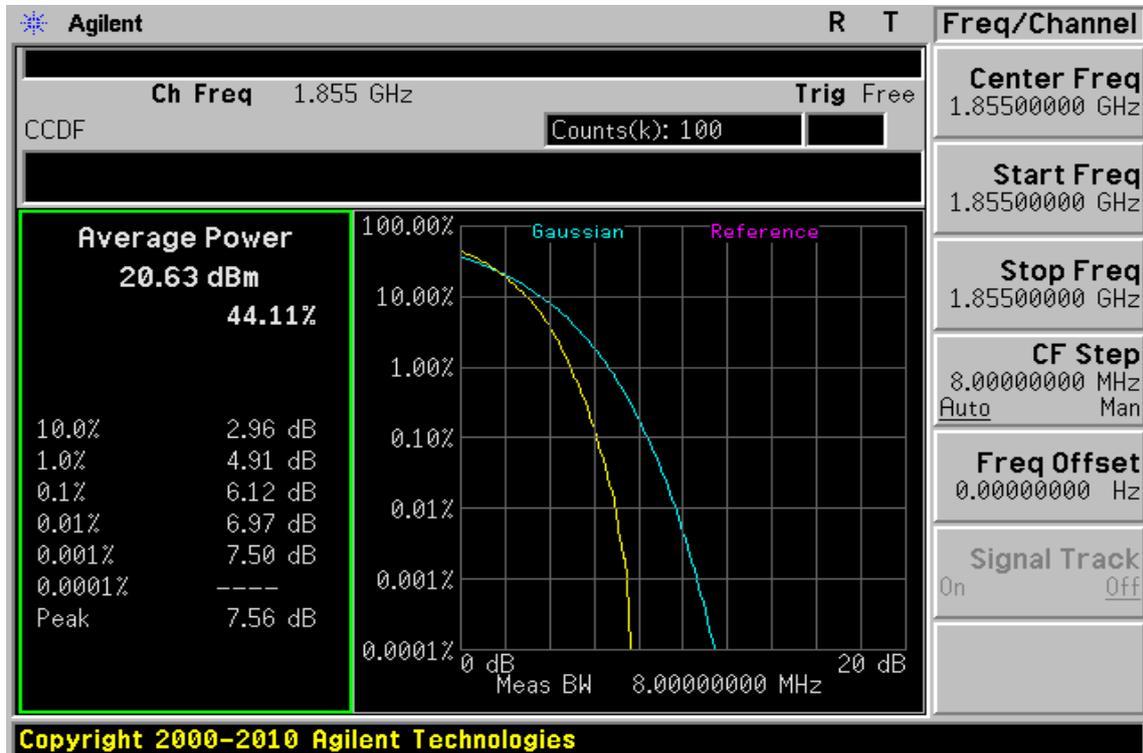


Figure 13-55: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-56: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid

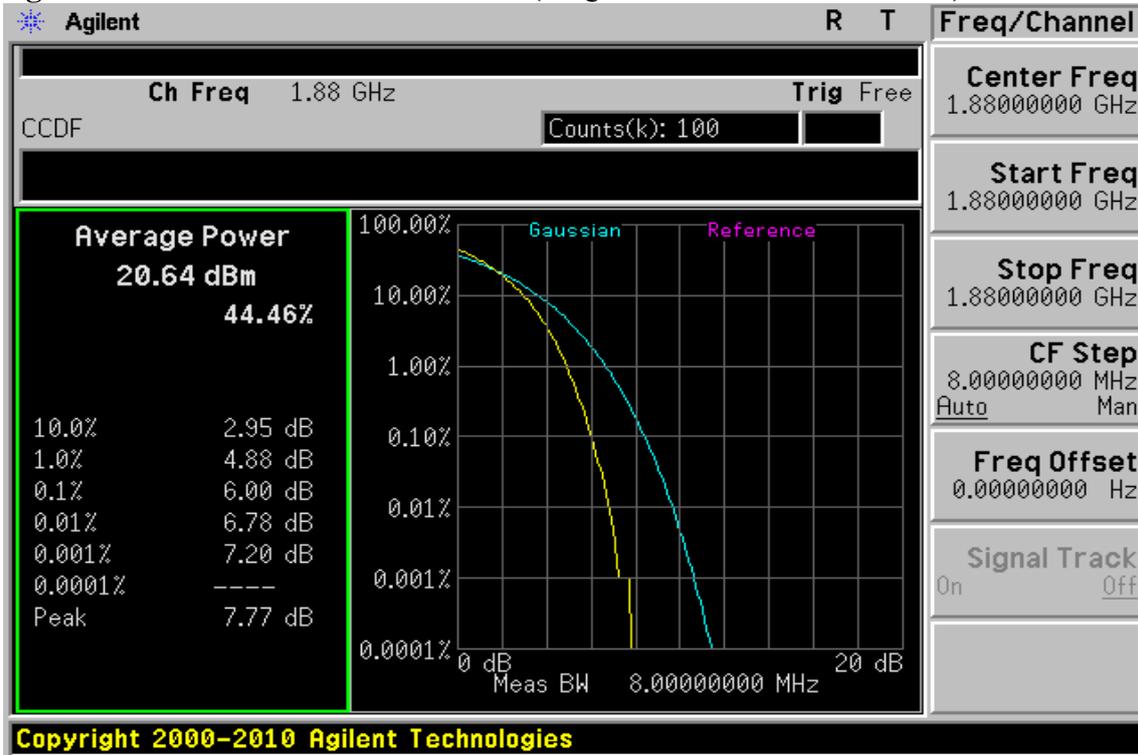
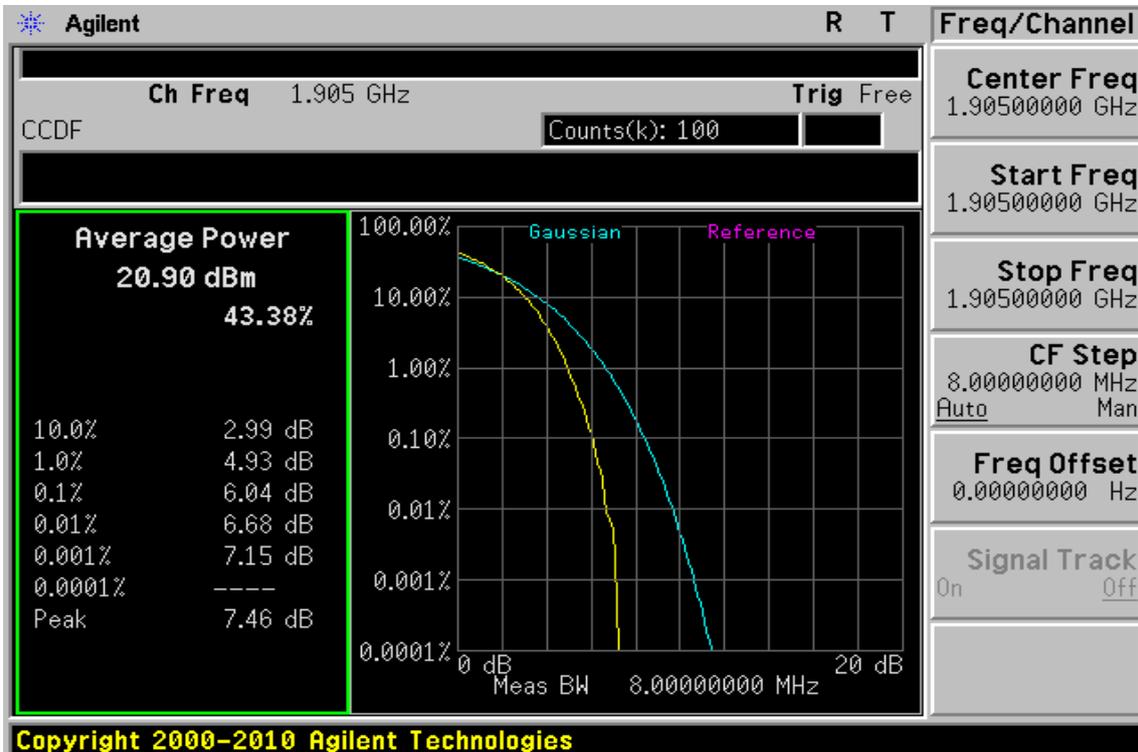


Figure 13-57: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-58: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low

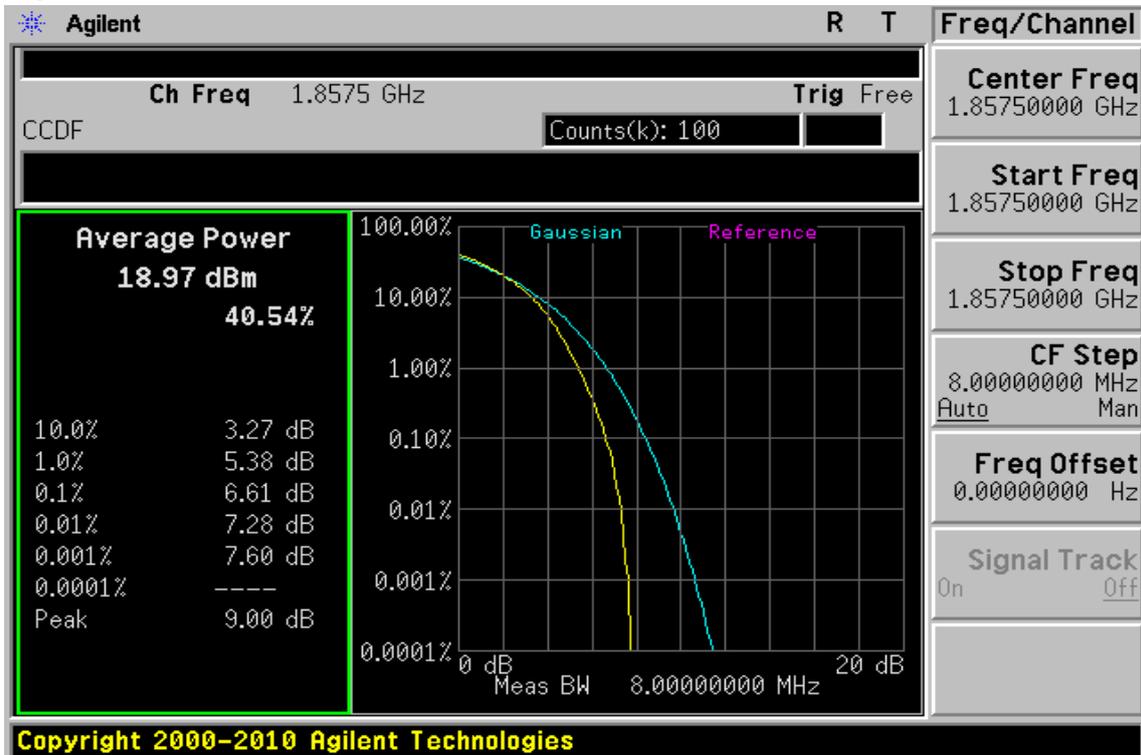
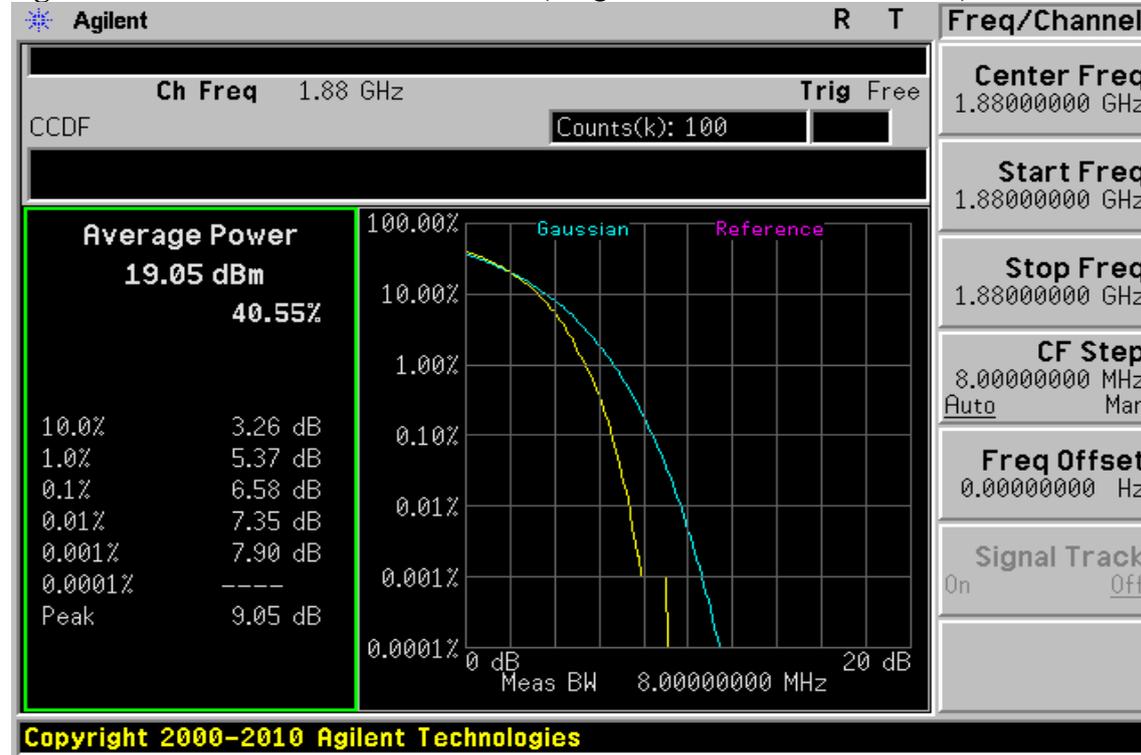


Figure 13-59: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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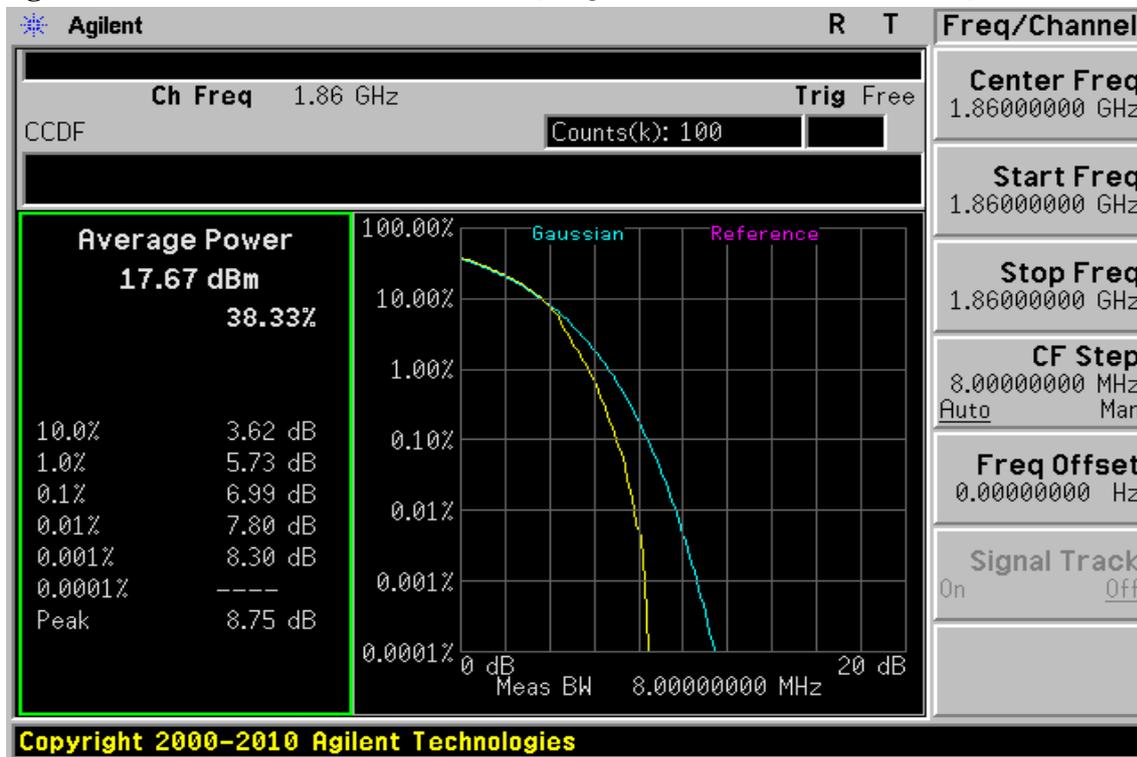
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Figure 13-60: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High



Figure 13-61: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-62: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid

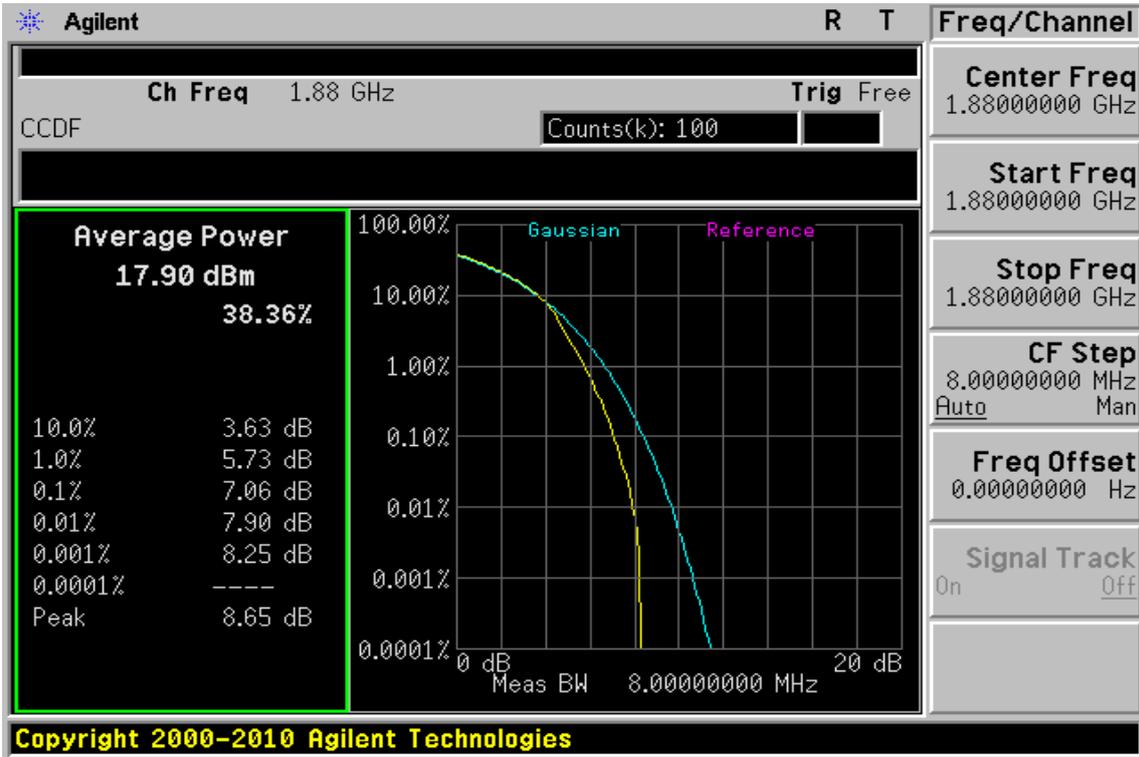
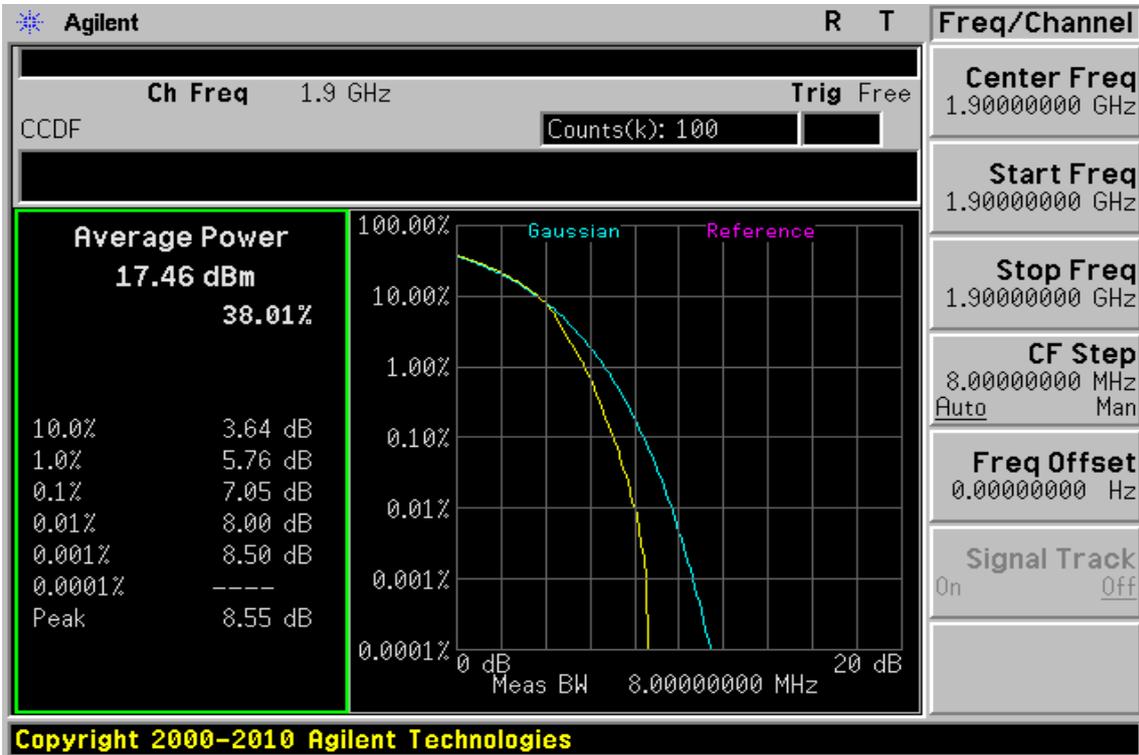


Figure 13-63: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-64: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low

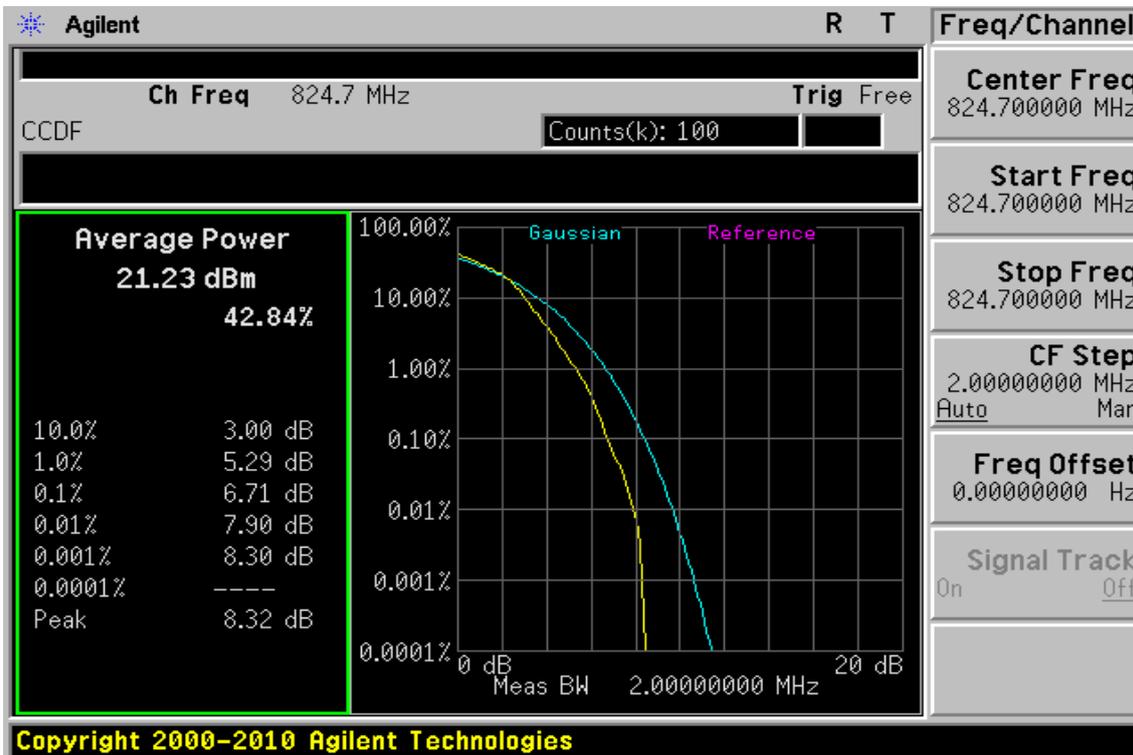


Figure 13-65: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-66: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High



Figure 13-67: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-68: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid

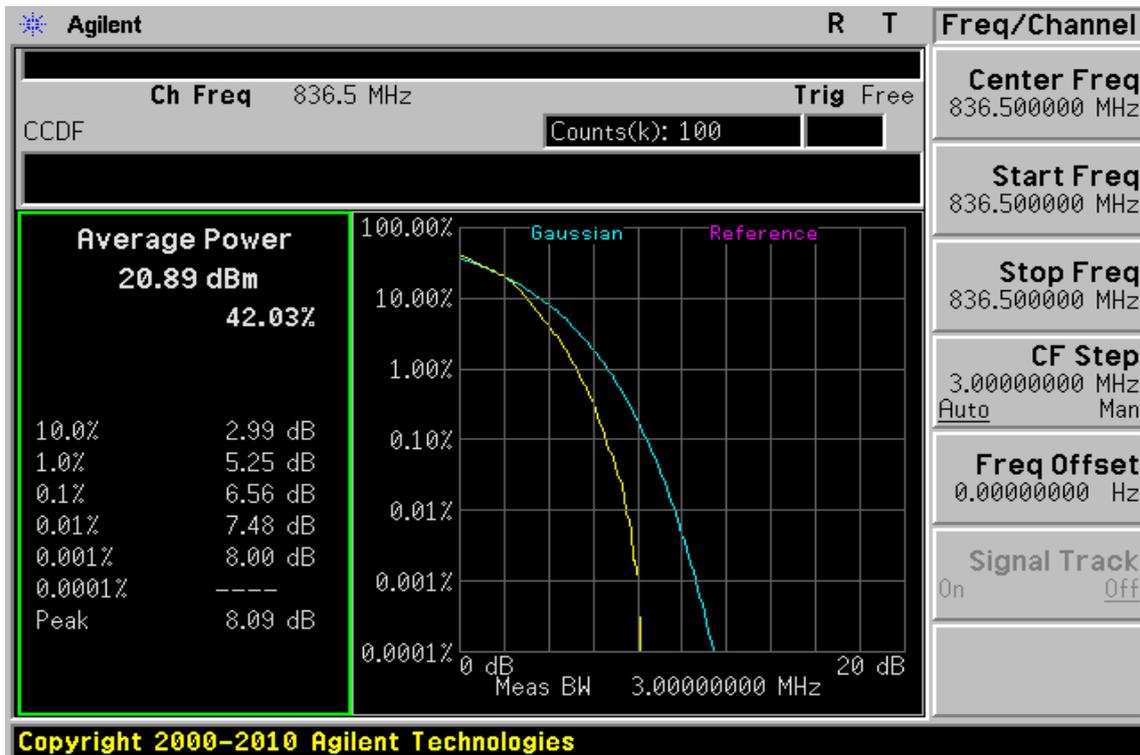


Figure 13-69: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High



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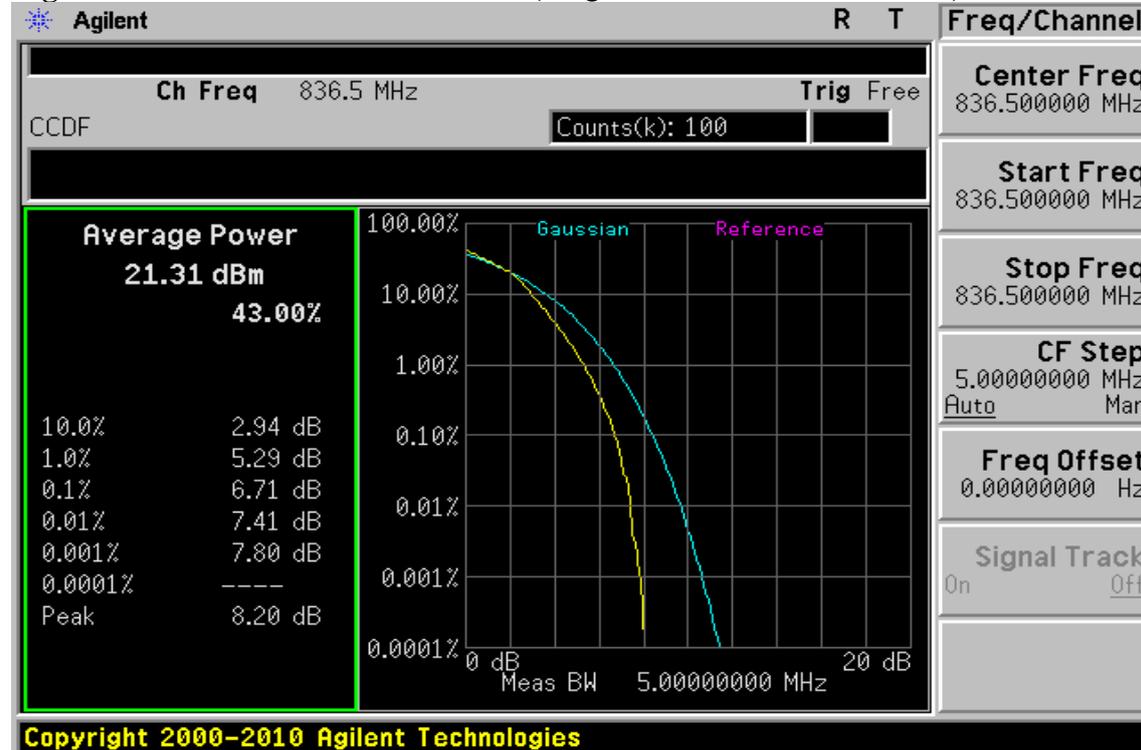
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Figure 13-70: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low



Figure 13-71: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-72: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High

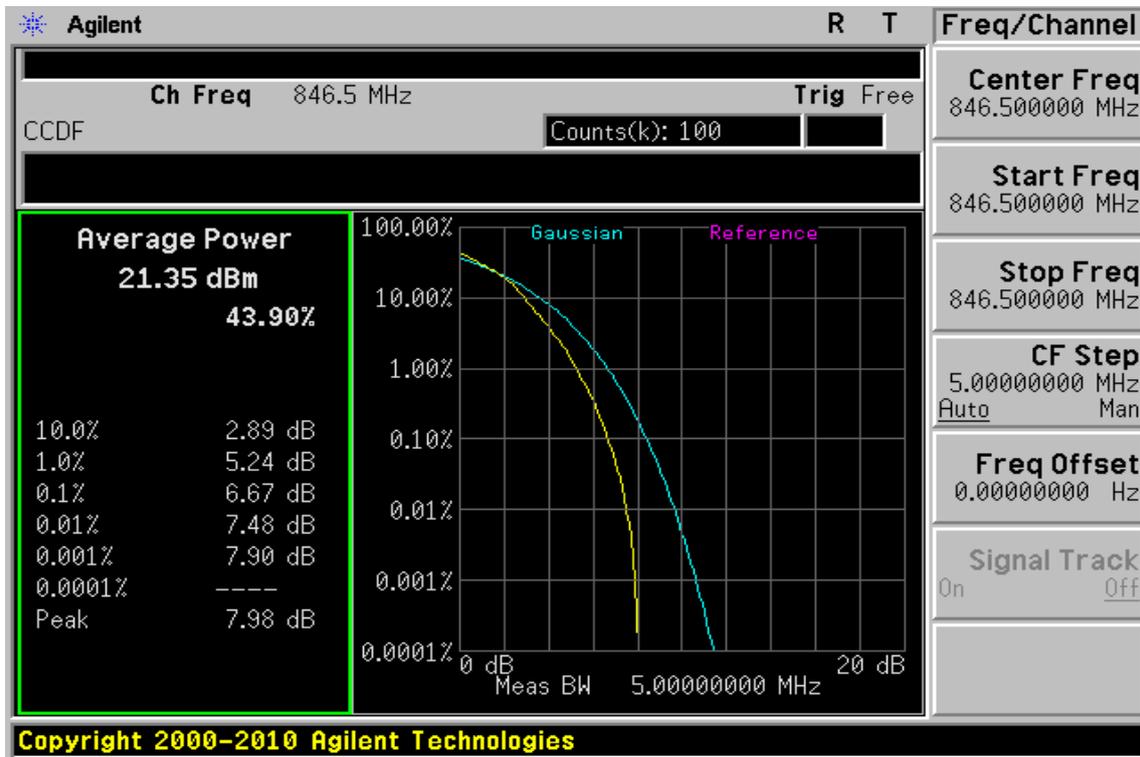
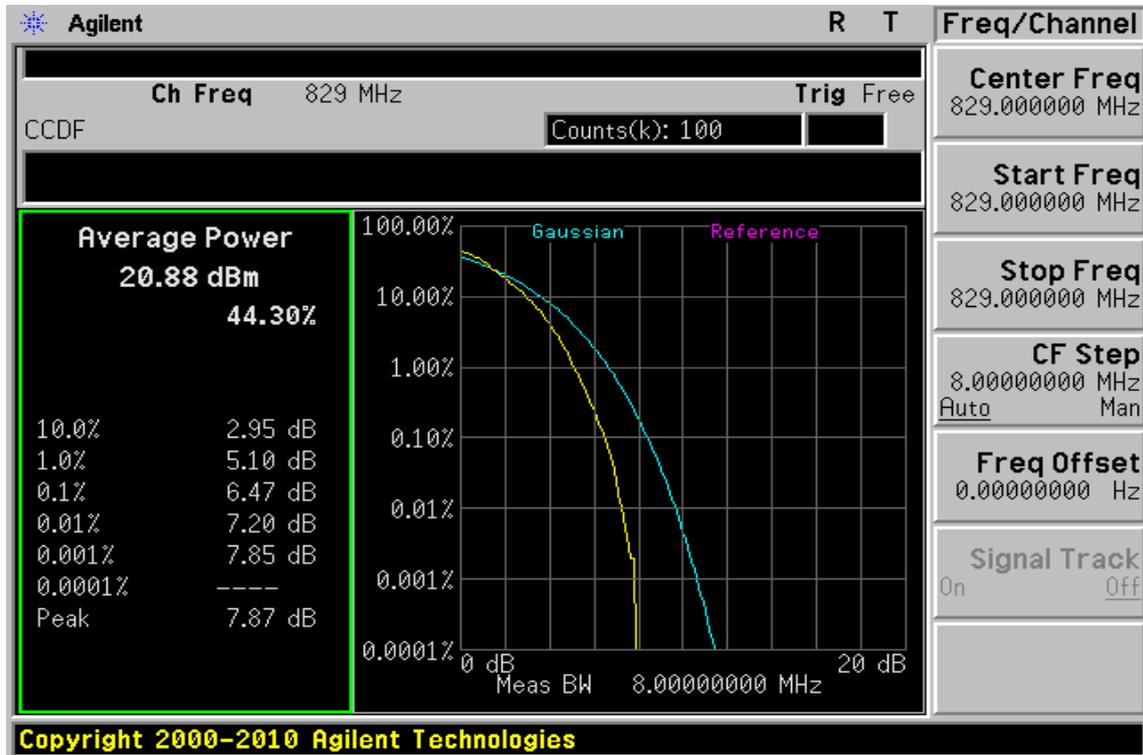


Figure 13-73: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-74: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid

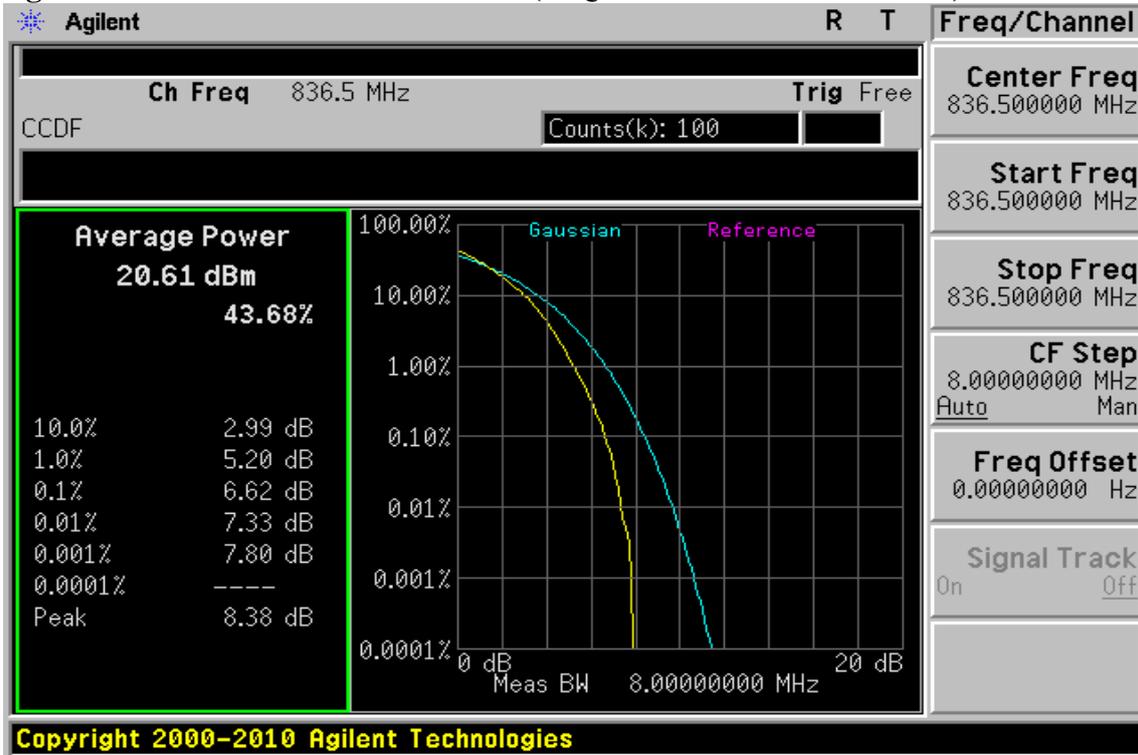
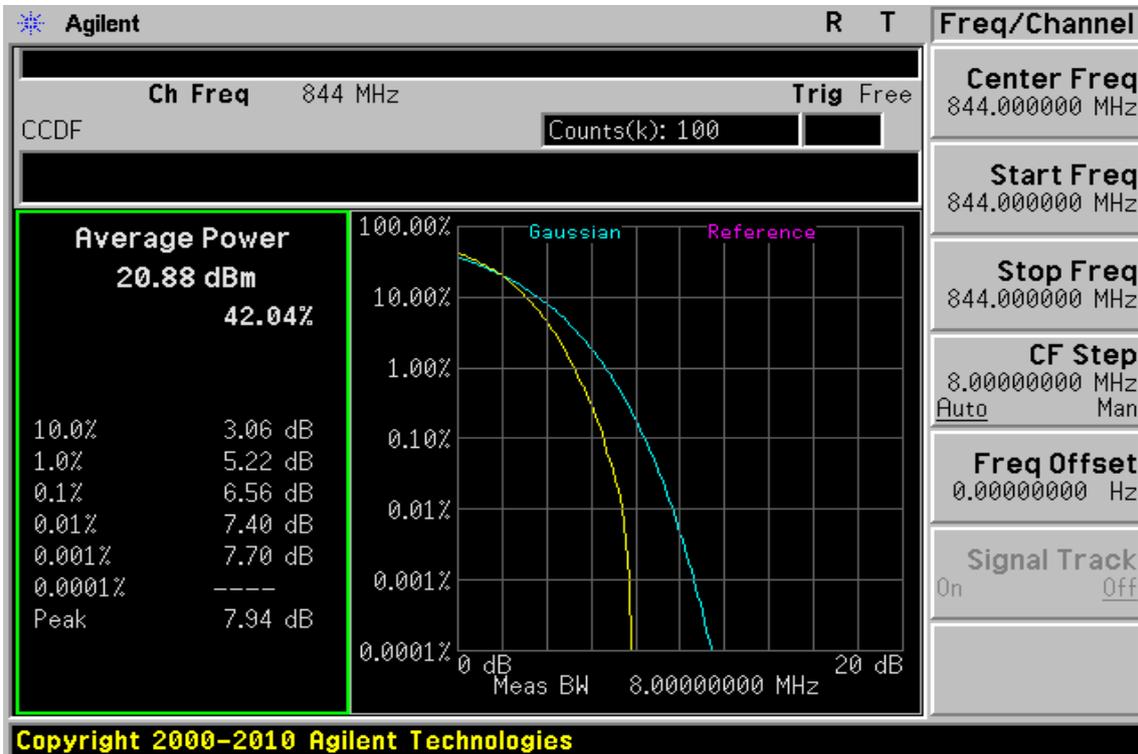


Figure 13-75: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High



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APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

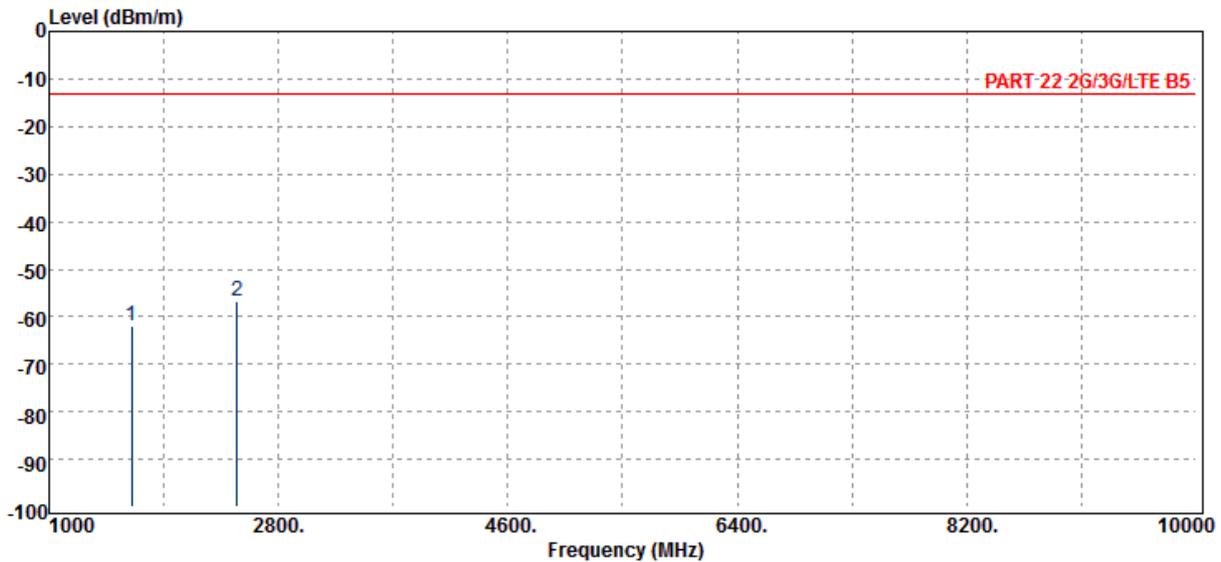
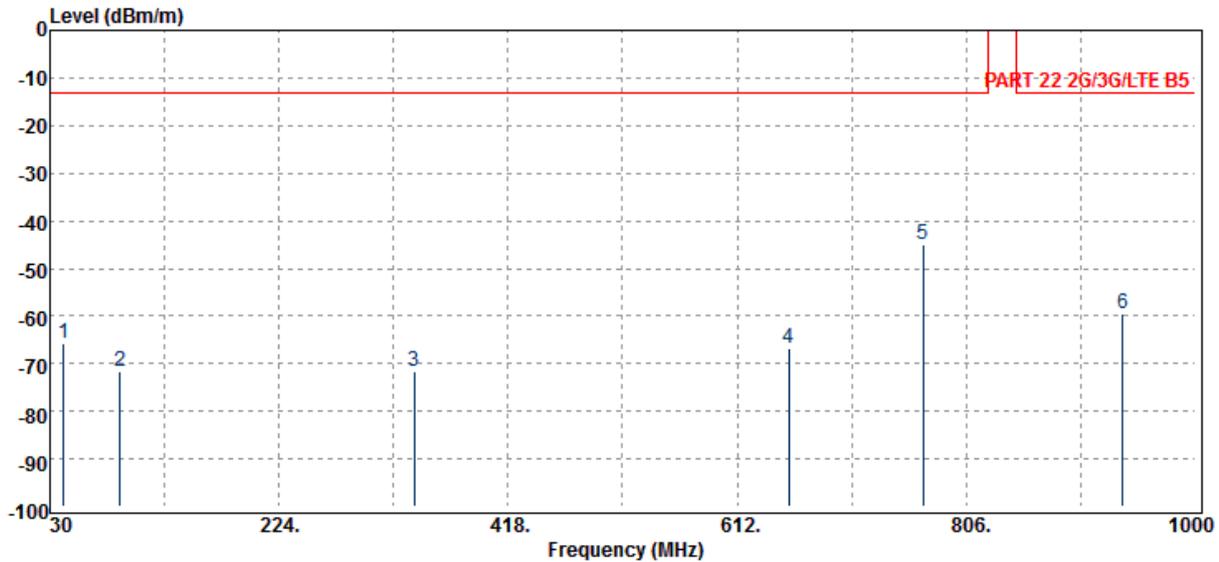
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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

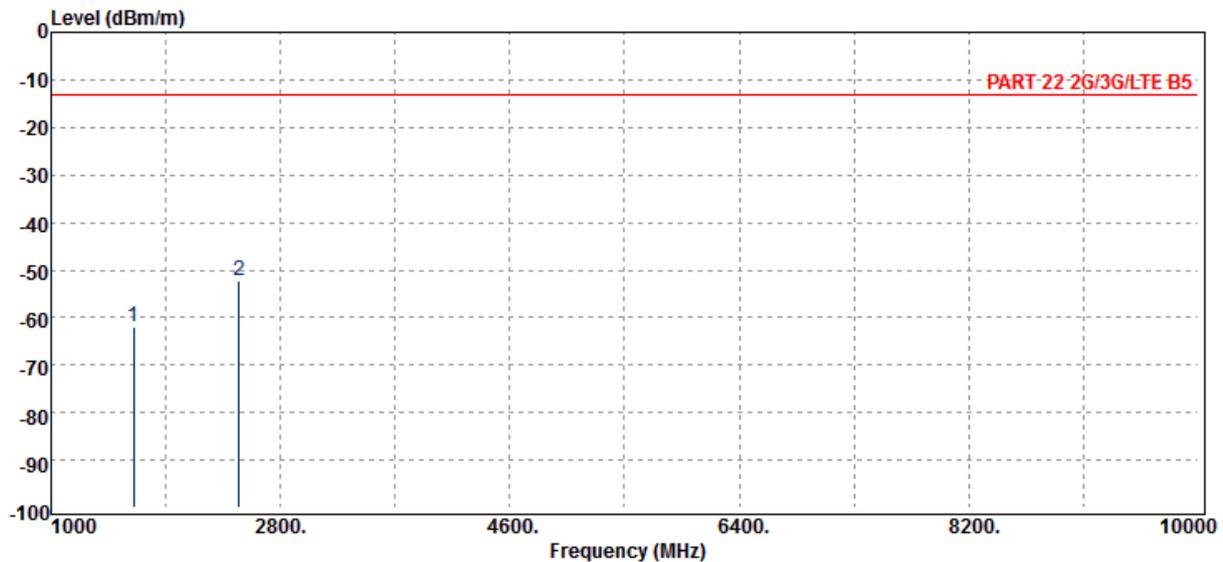
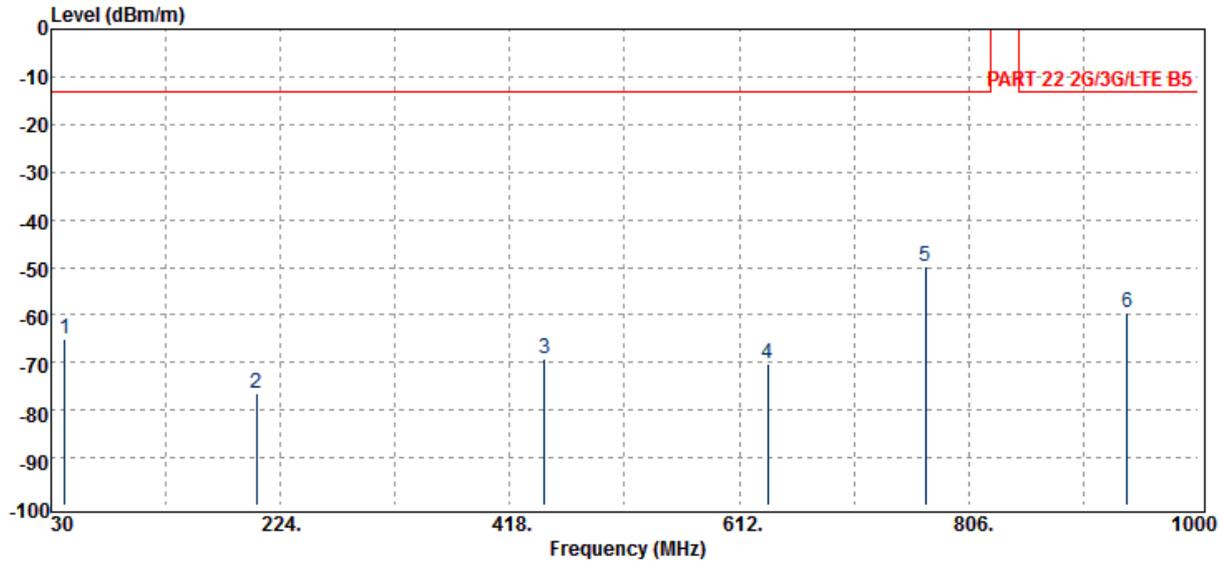


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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

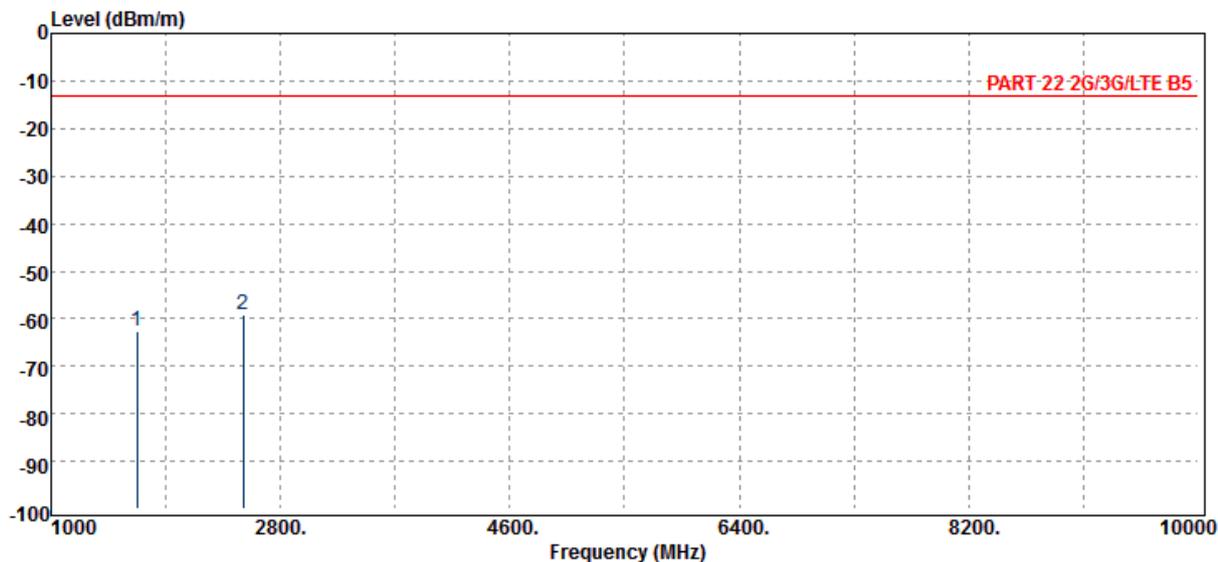
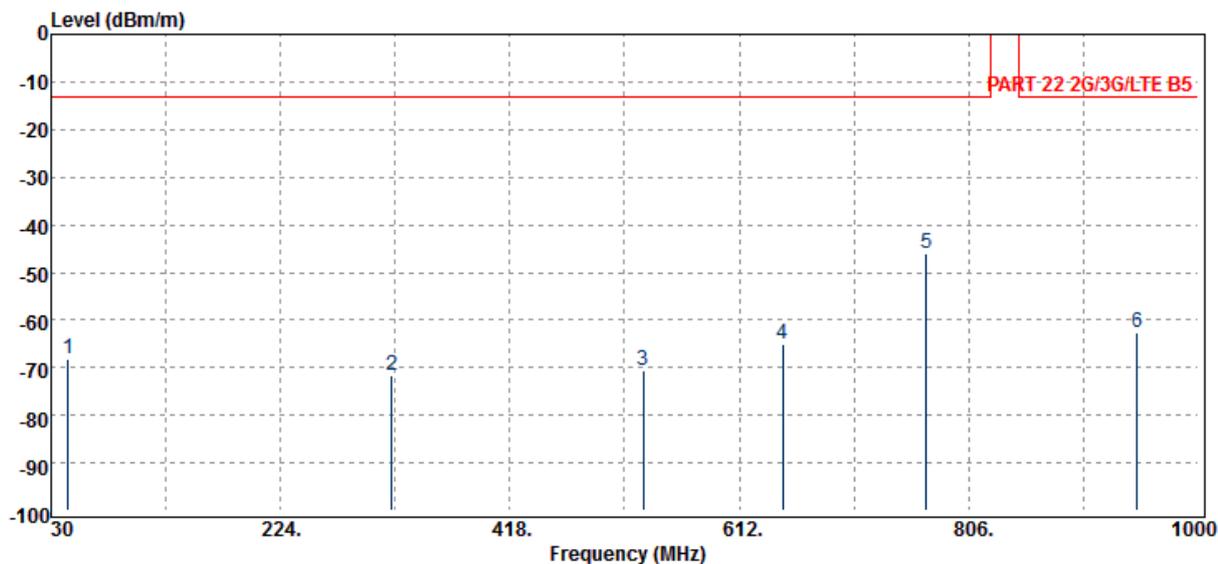


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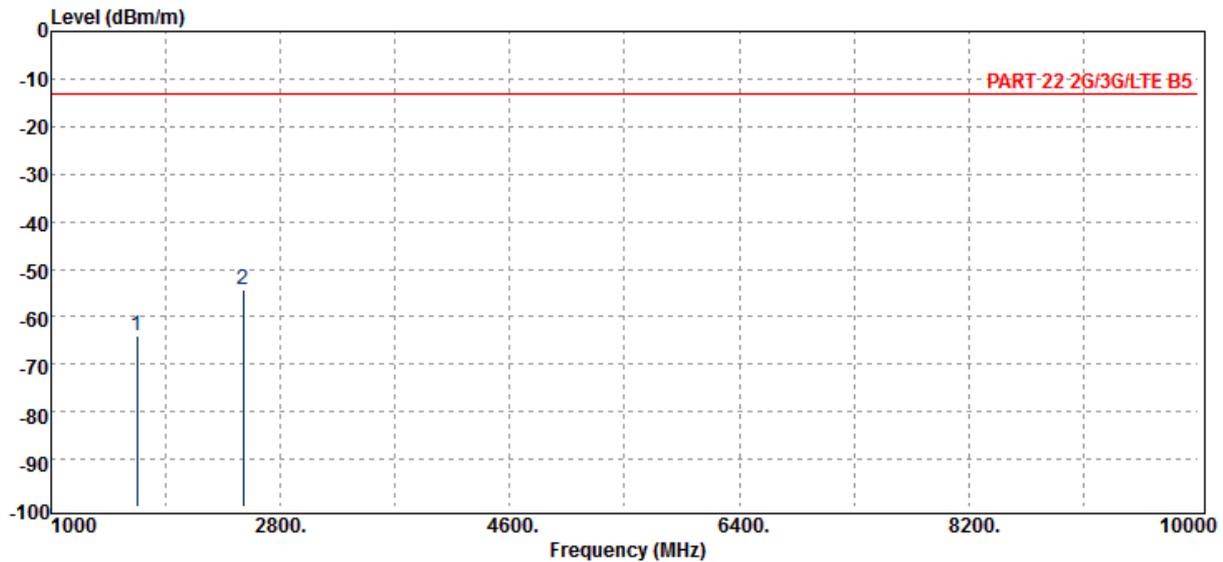
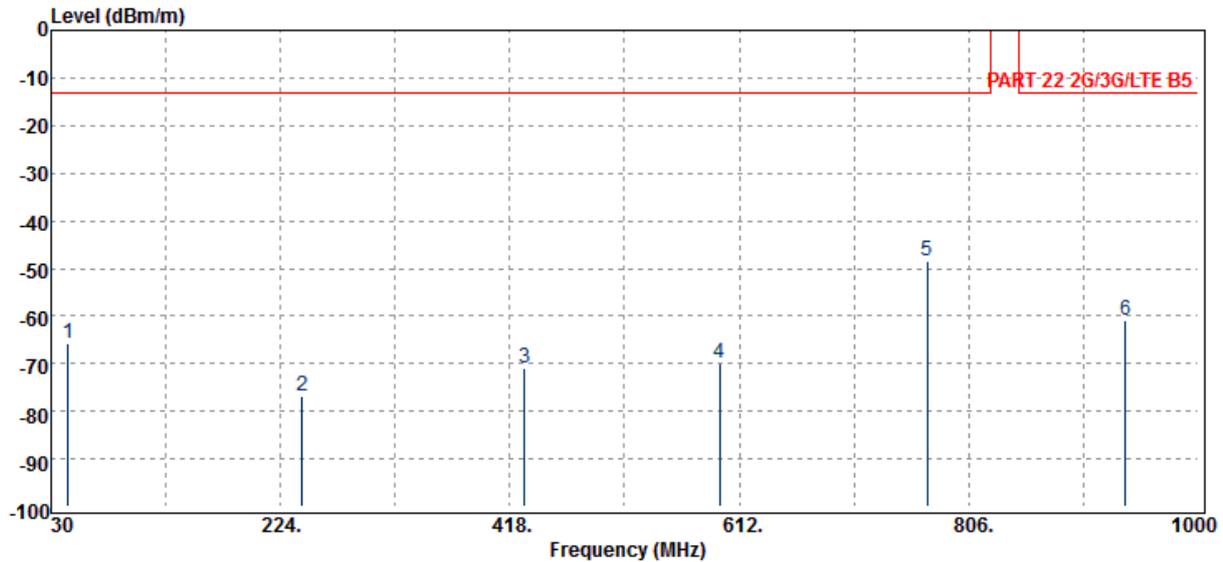
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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

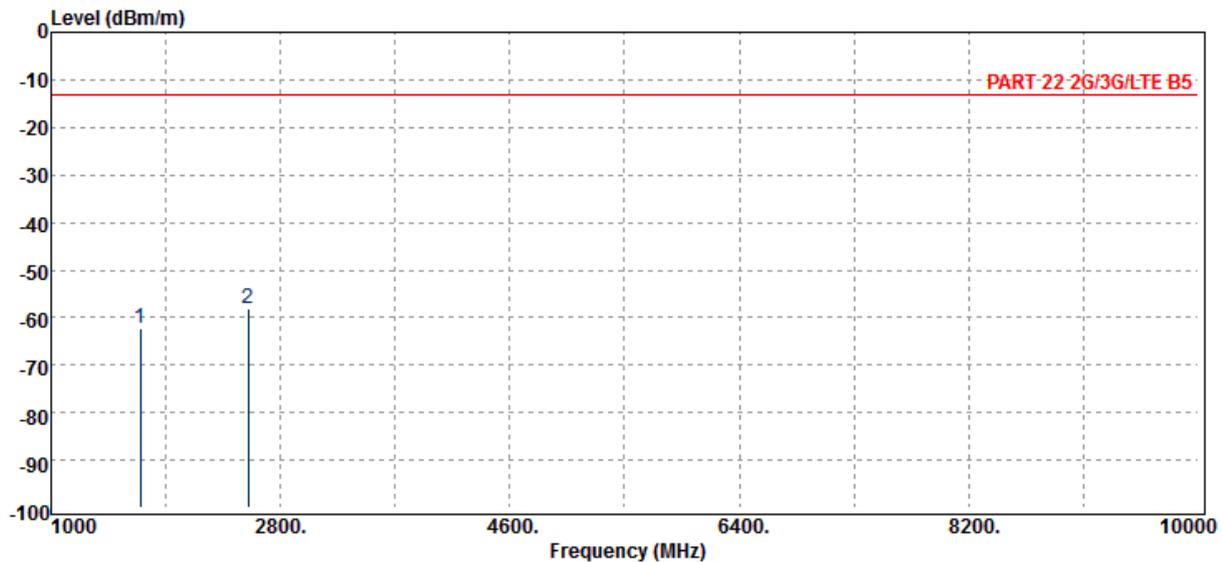
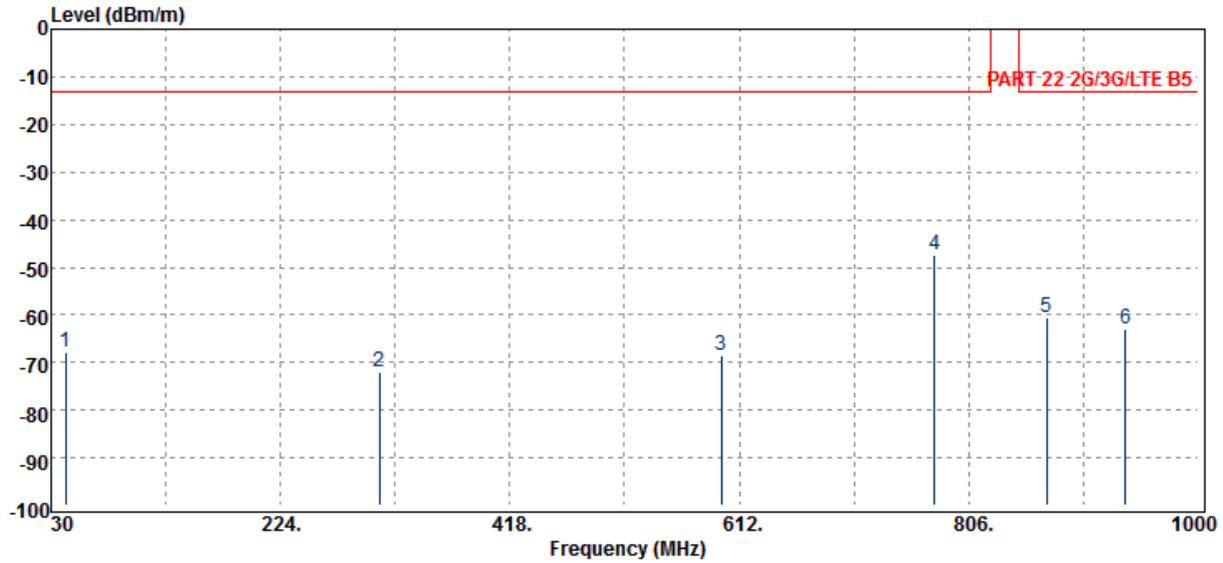


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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

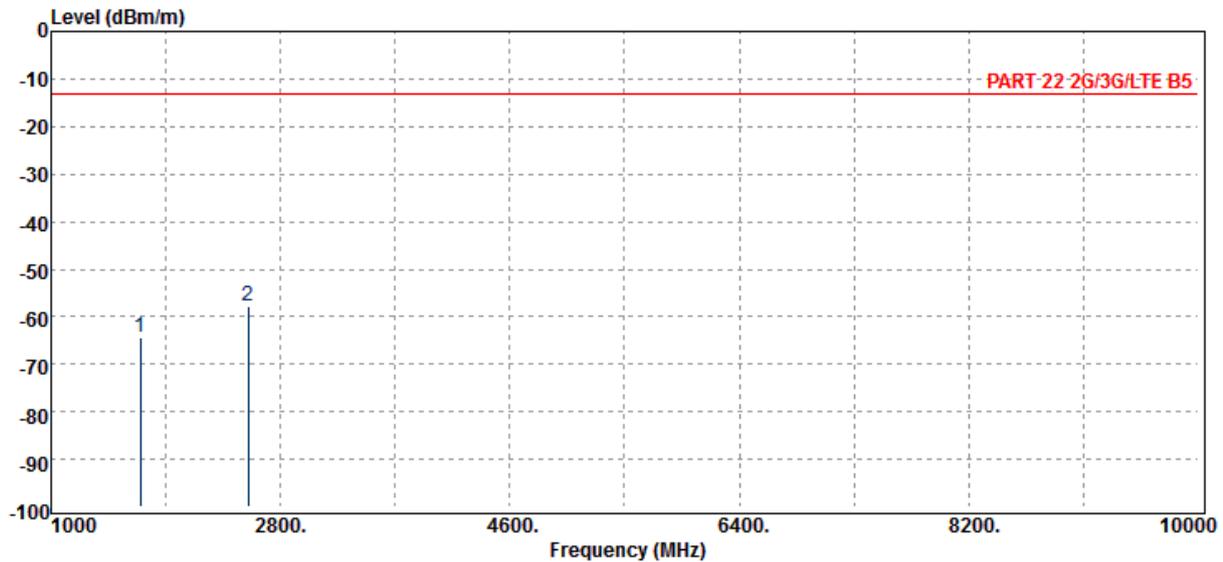
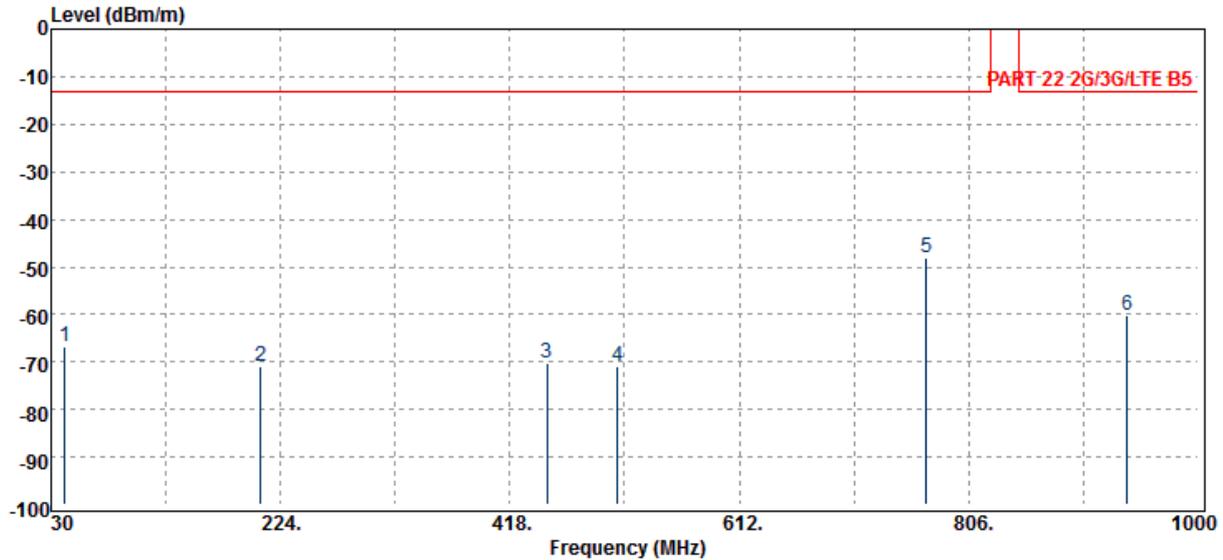


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Operation Band	:GSM 850	Test Date	:2014-11-26
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



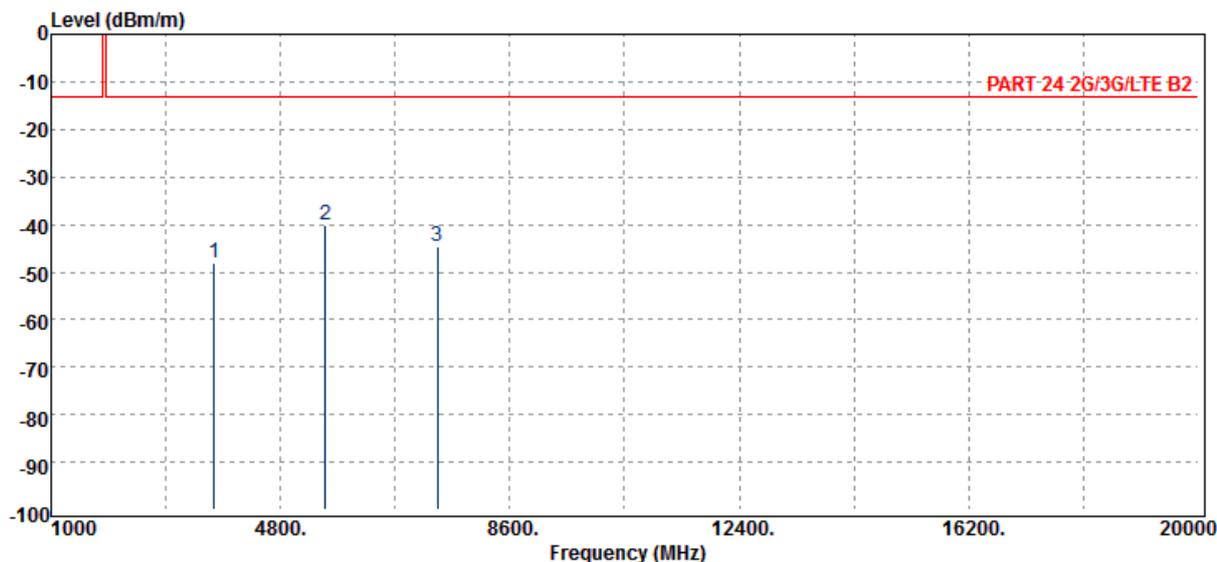
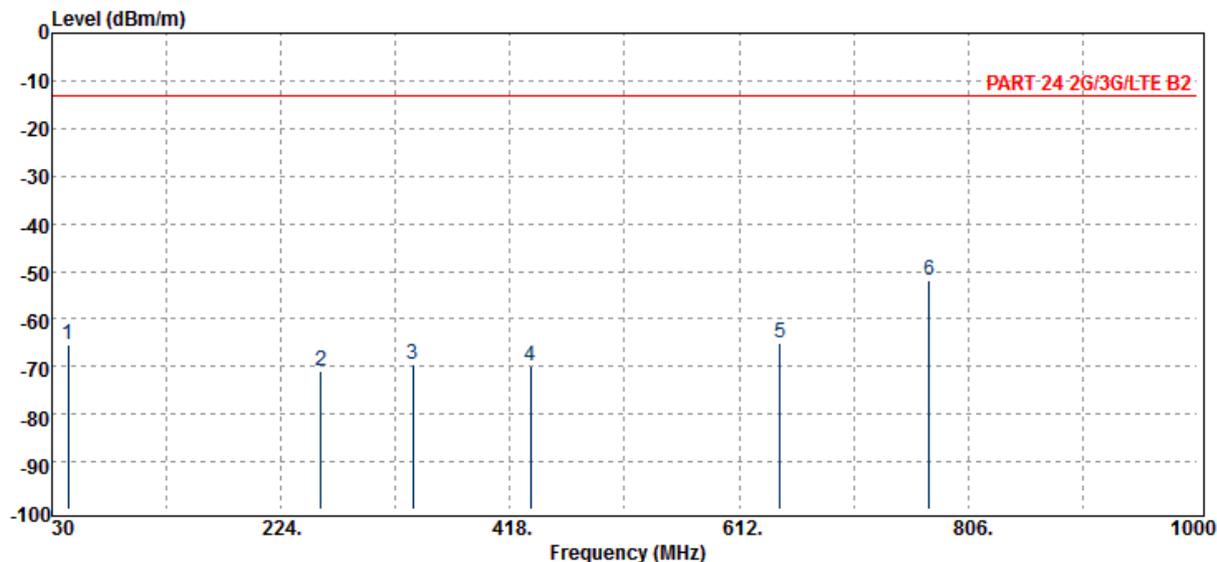
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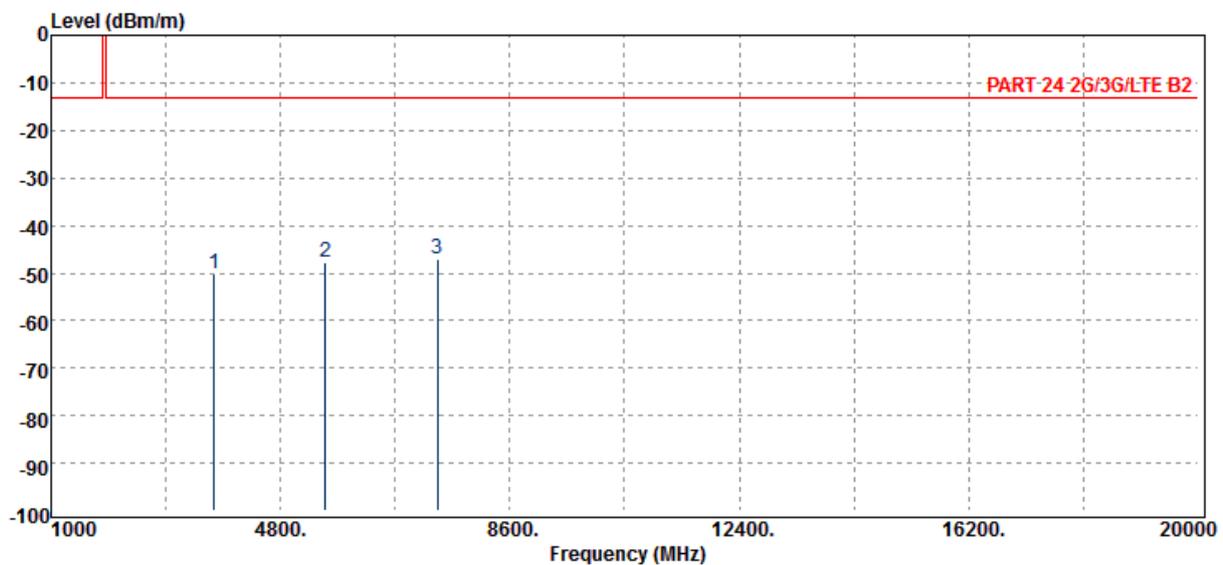
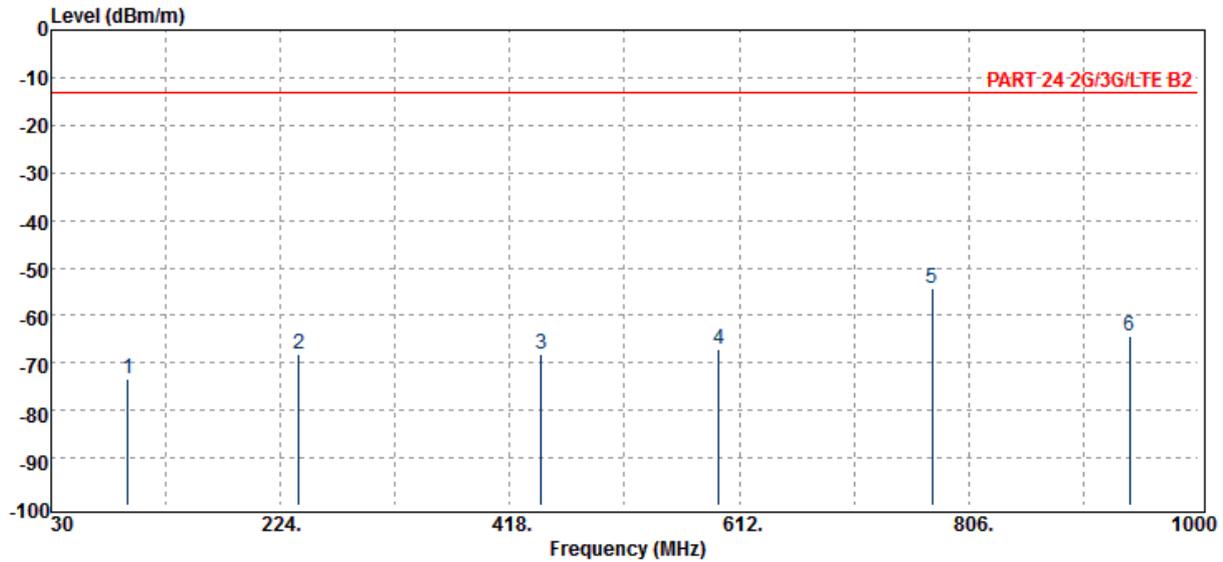
Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

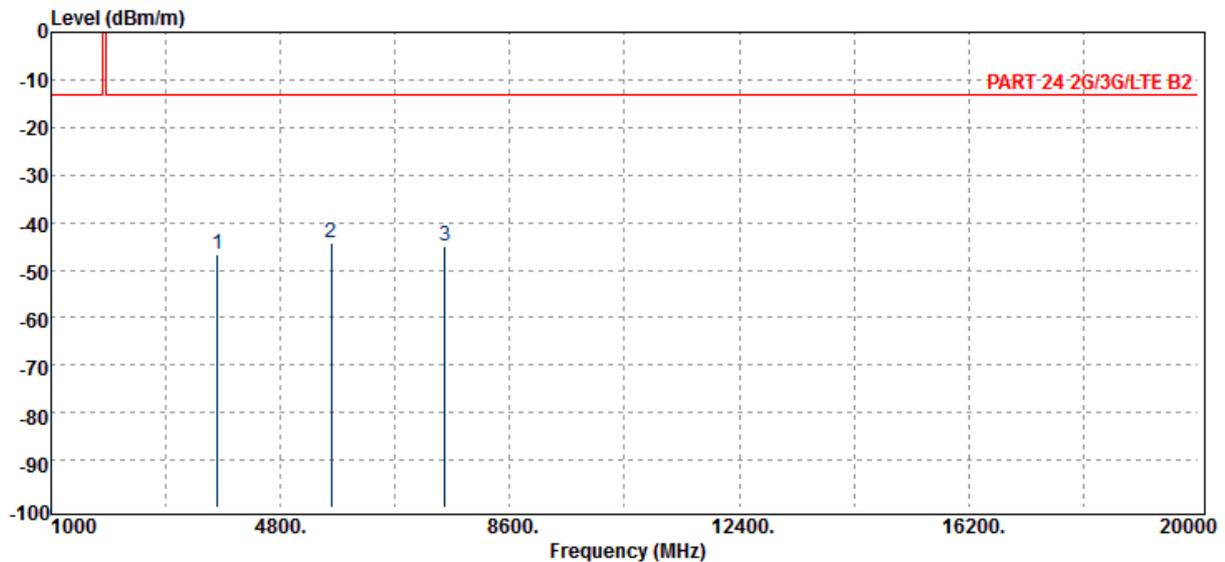
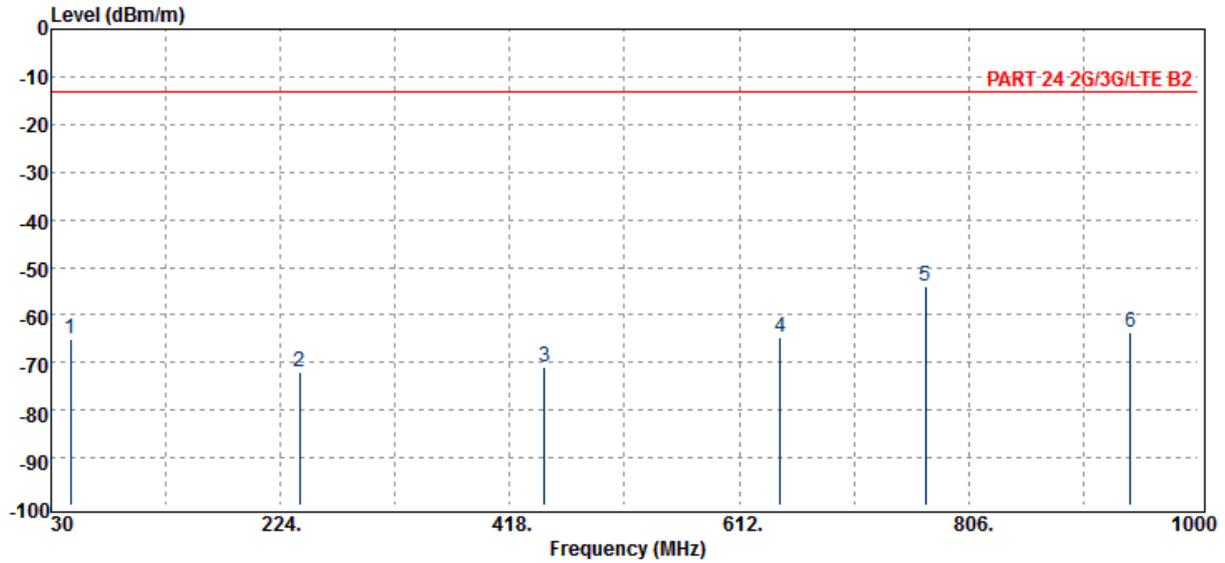


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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

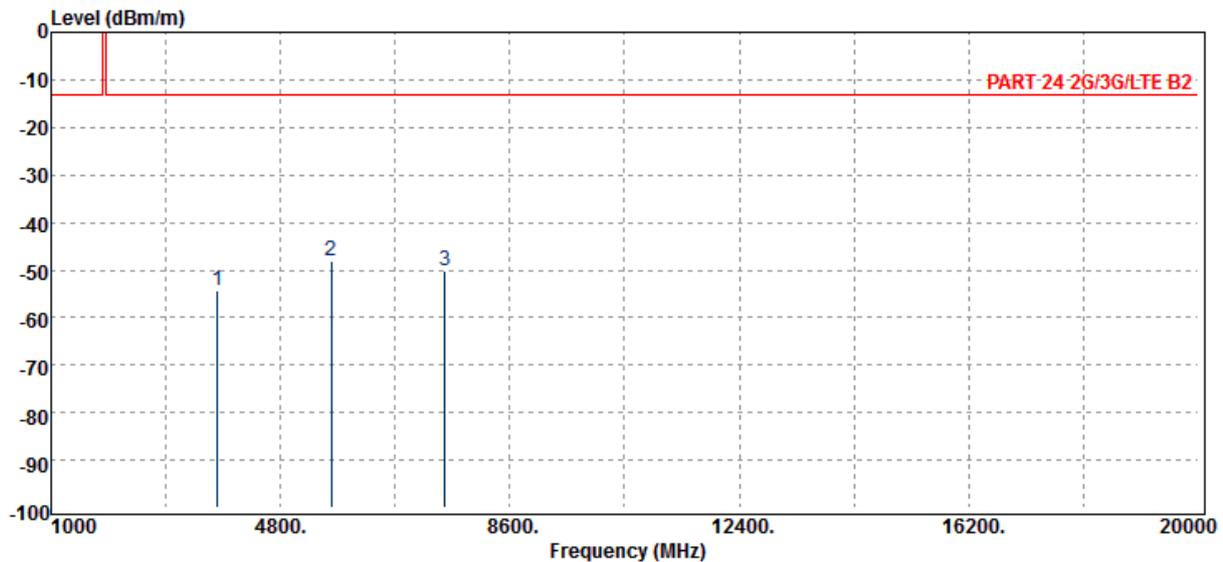
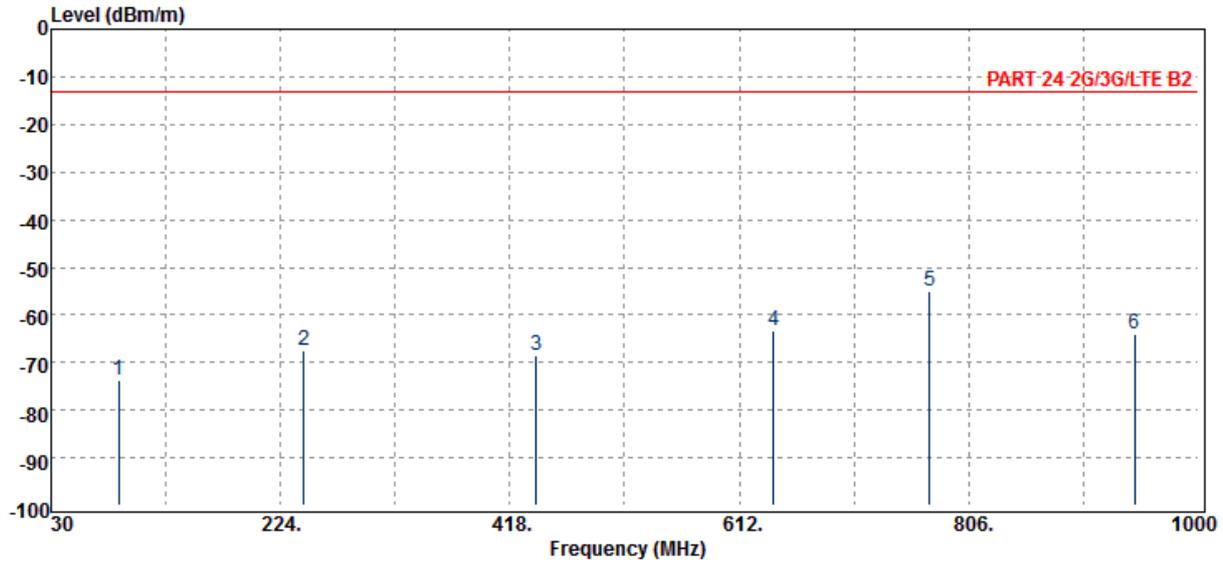


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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

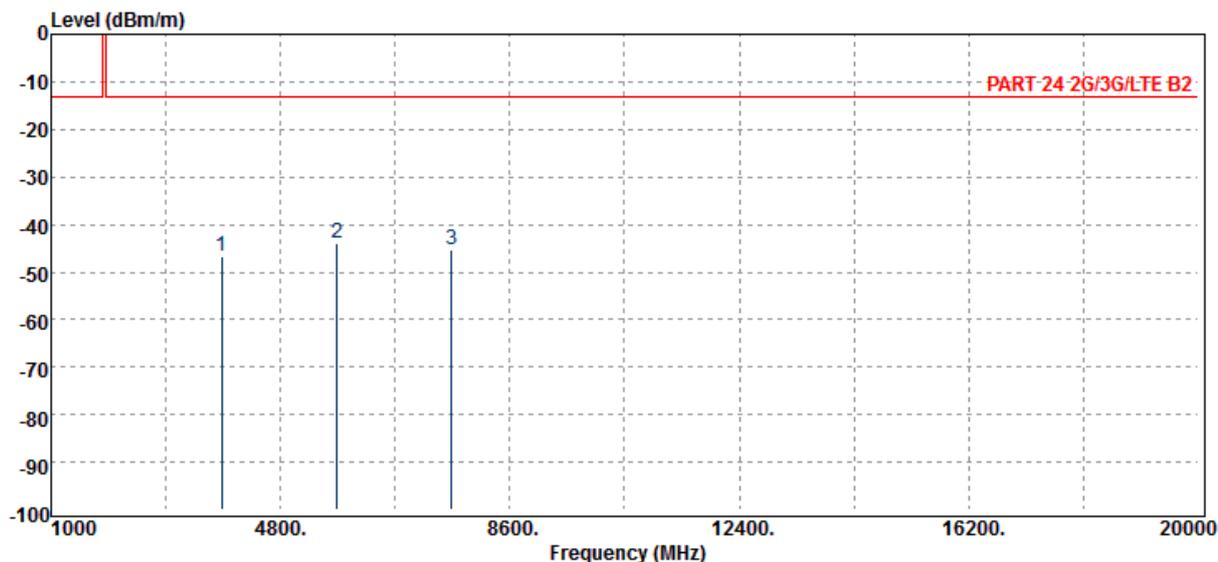
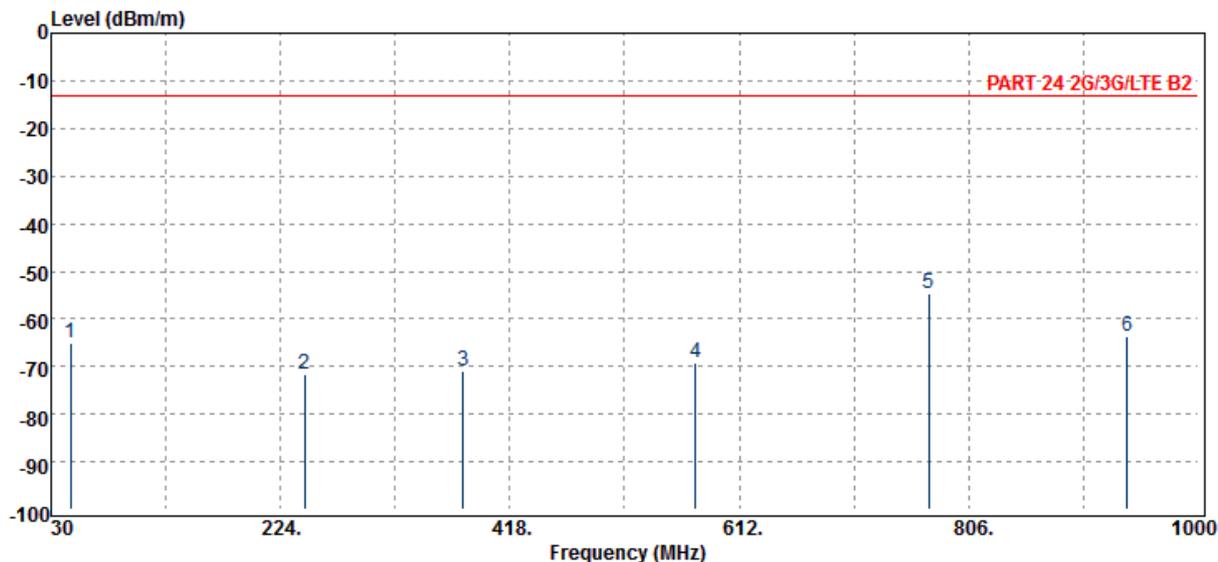


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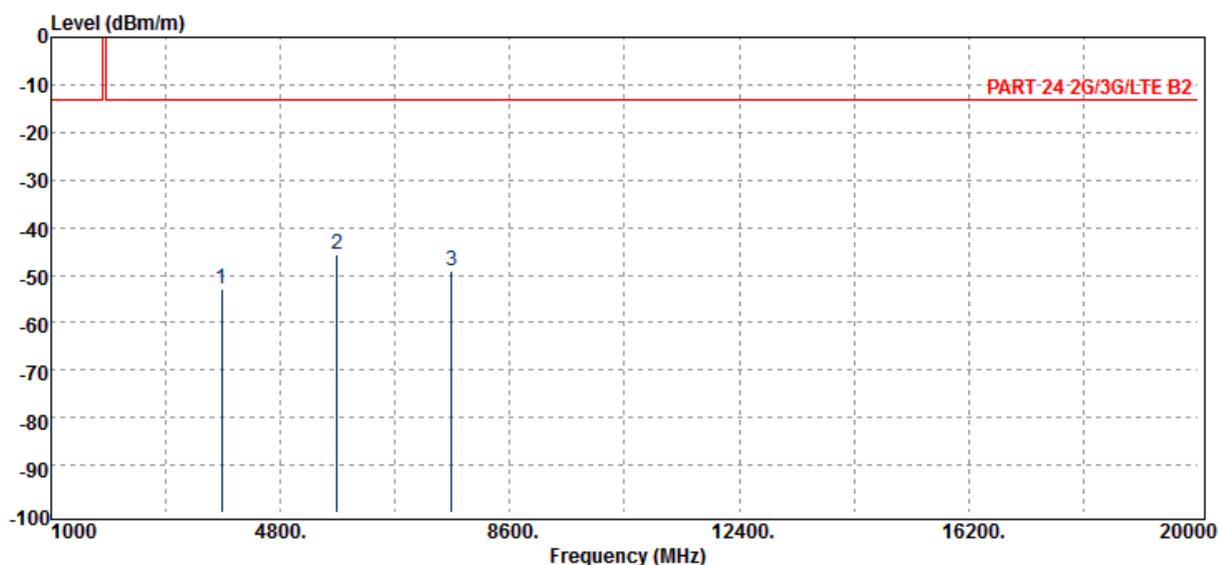
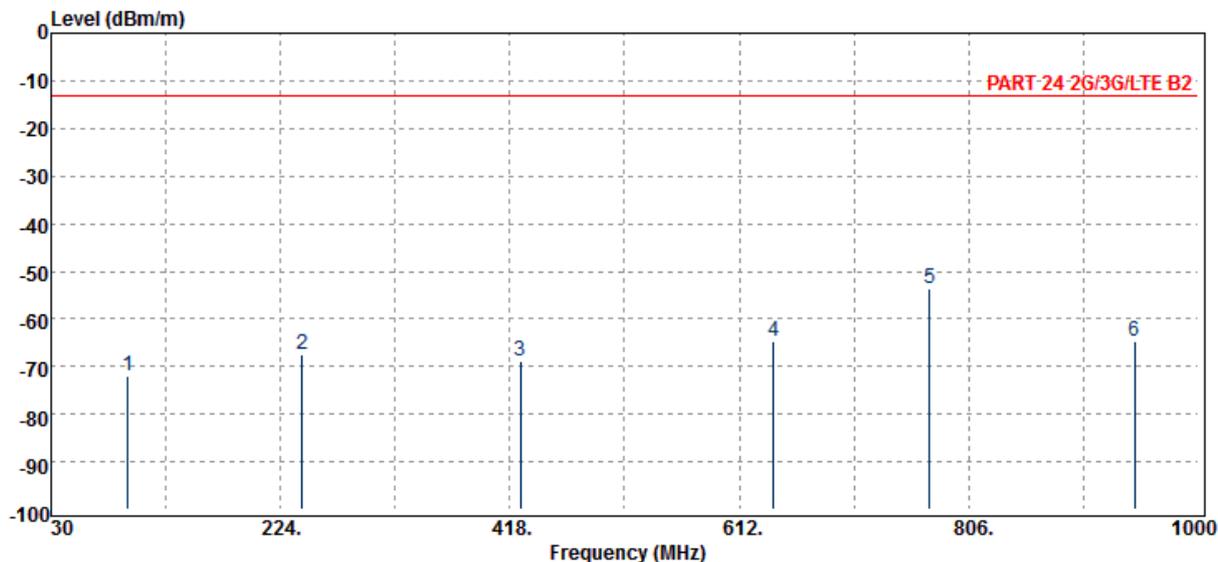
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Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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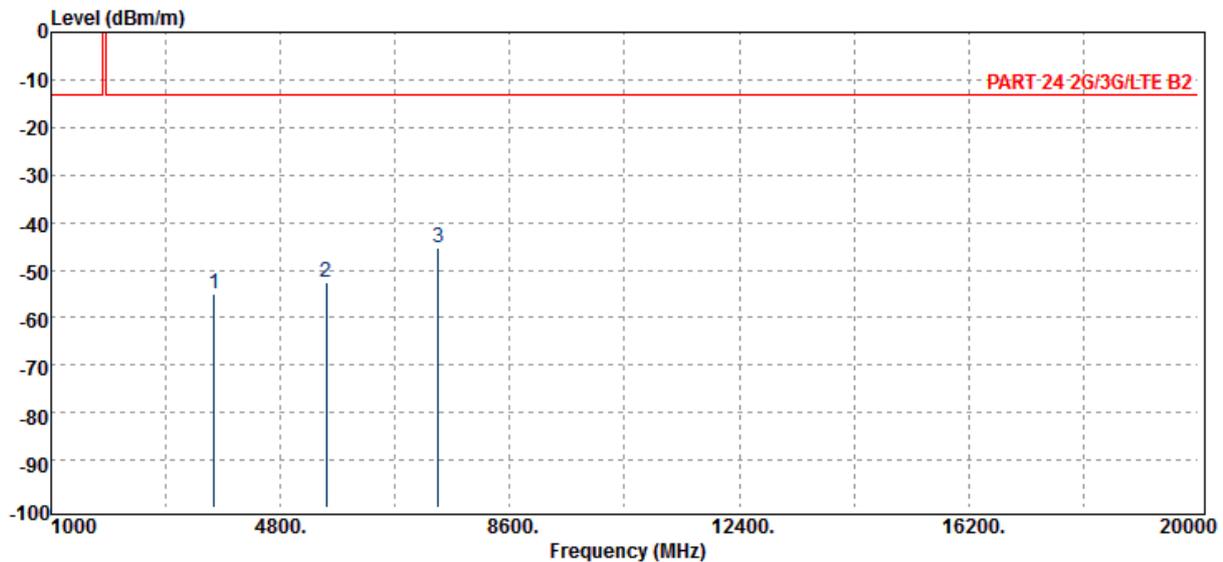
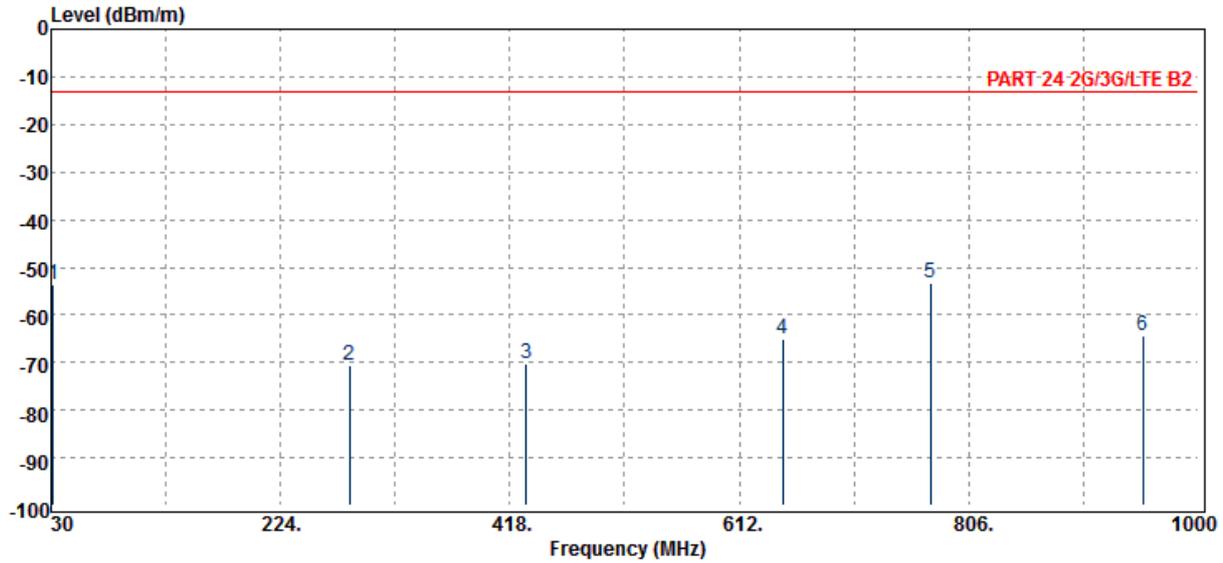
Operation Band	:GSM 1900	Test Date	:2014-11-26
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

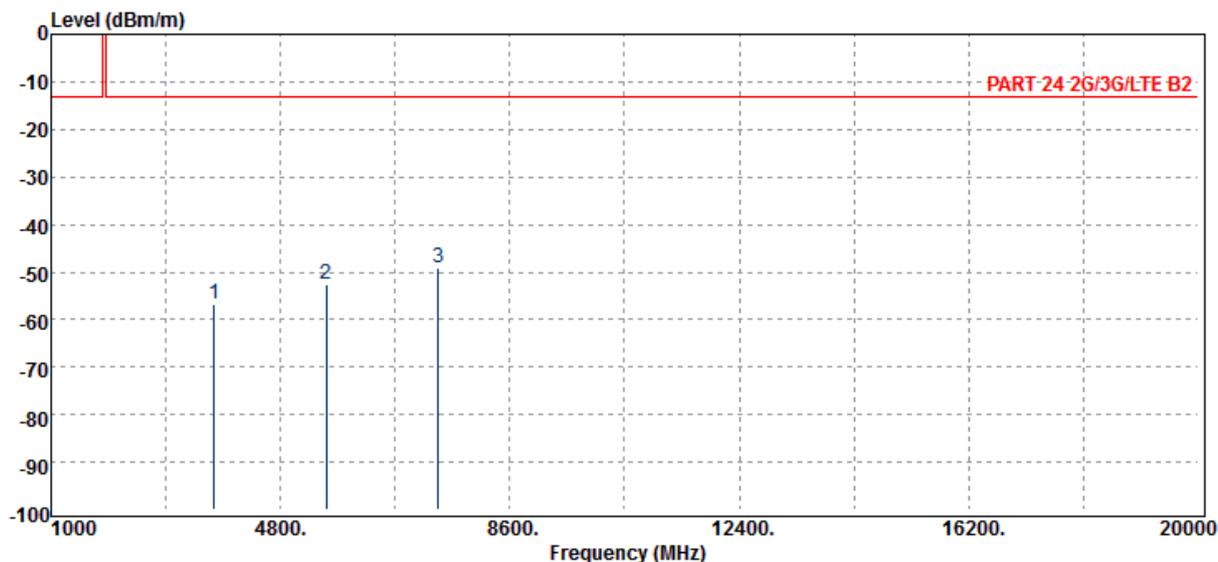
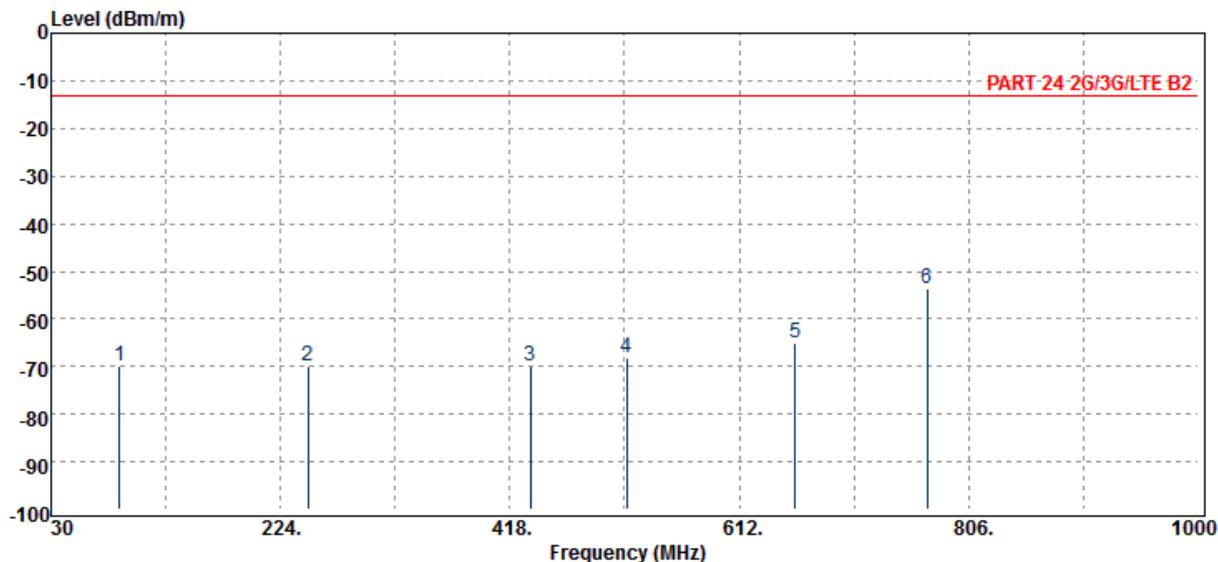


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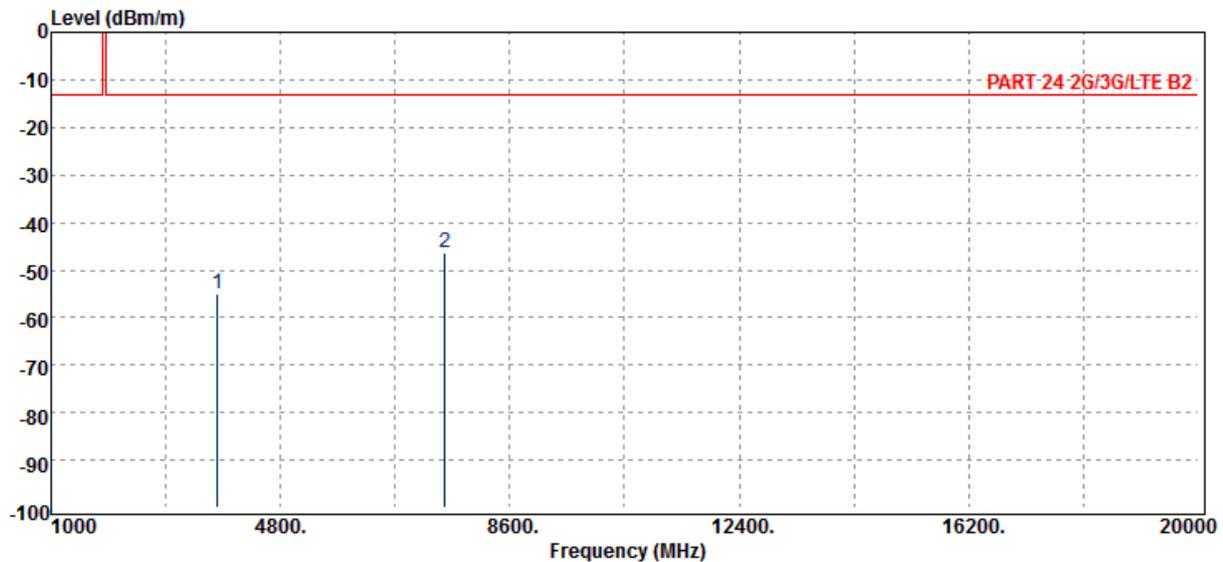
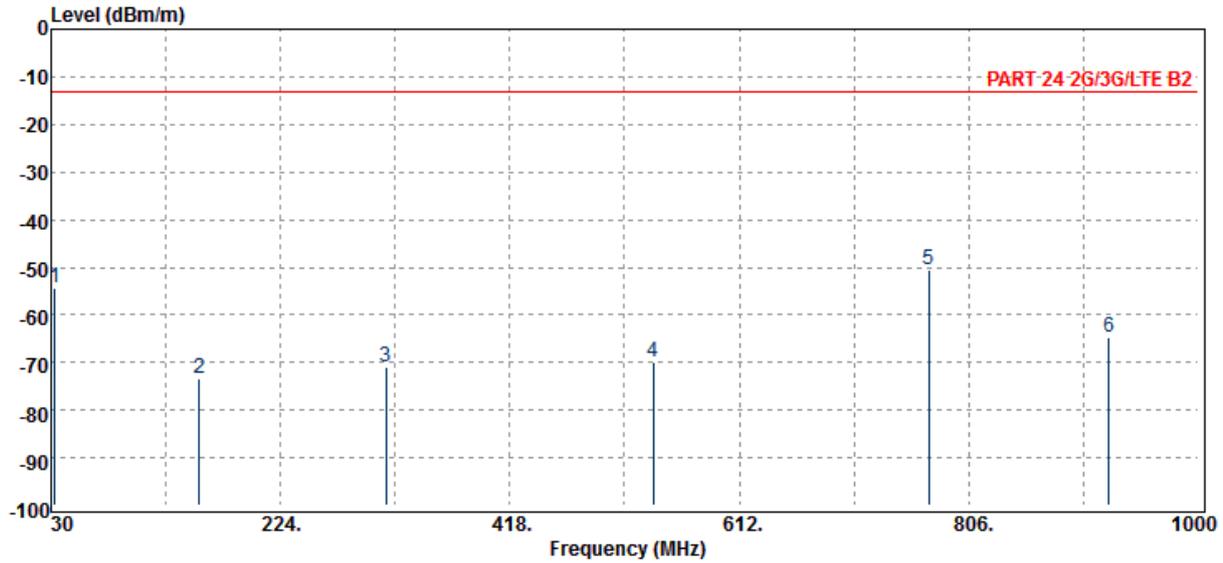
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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

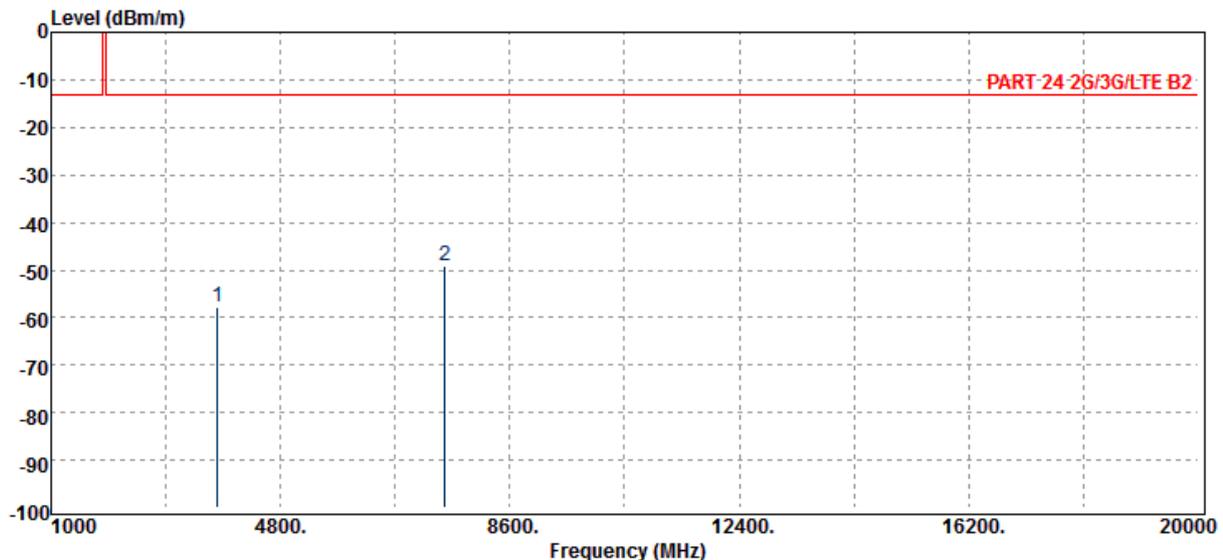
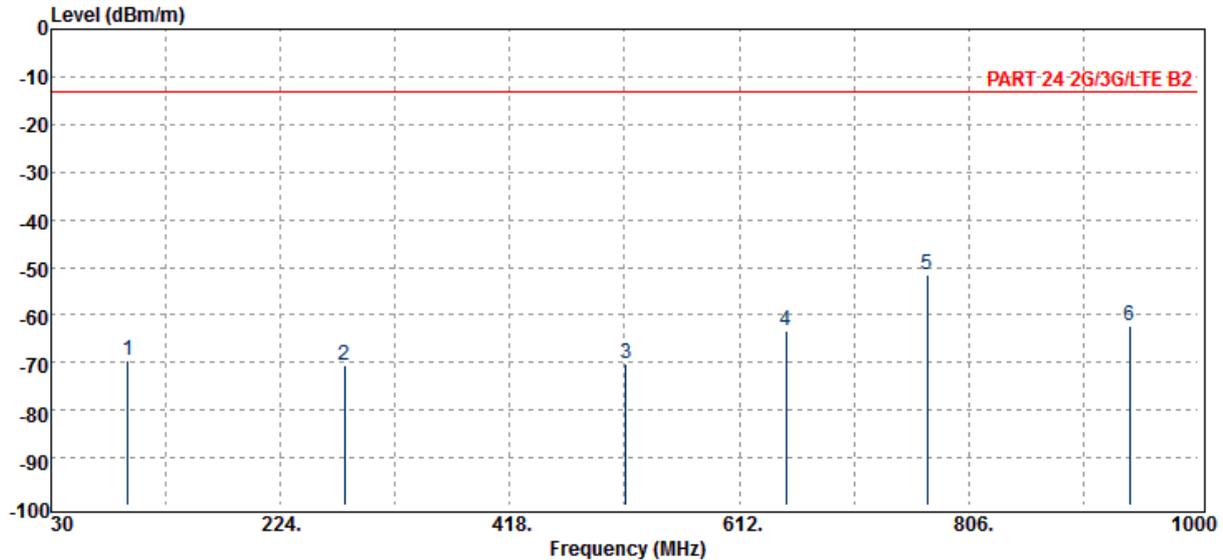


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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

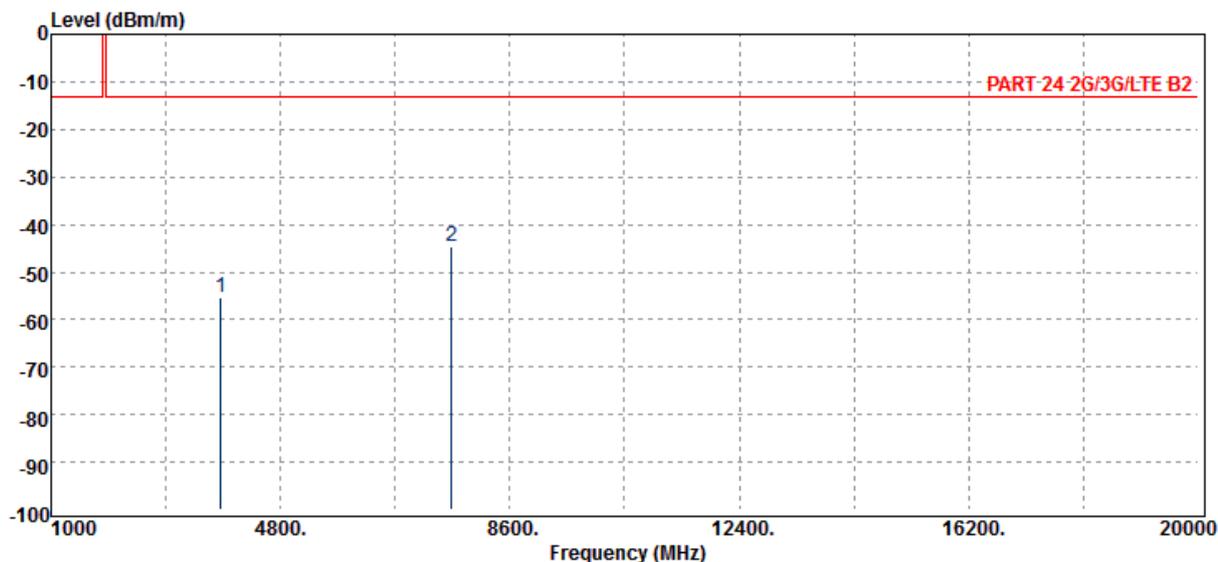
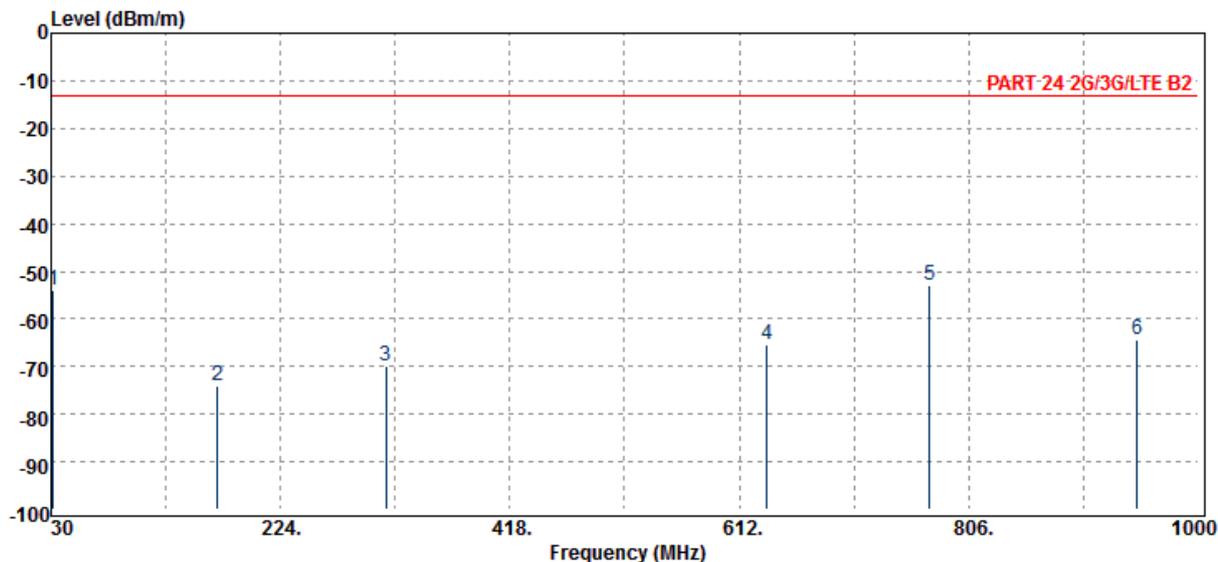


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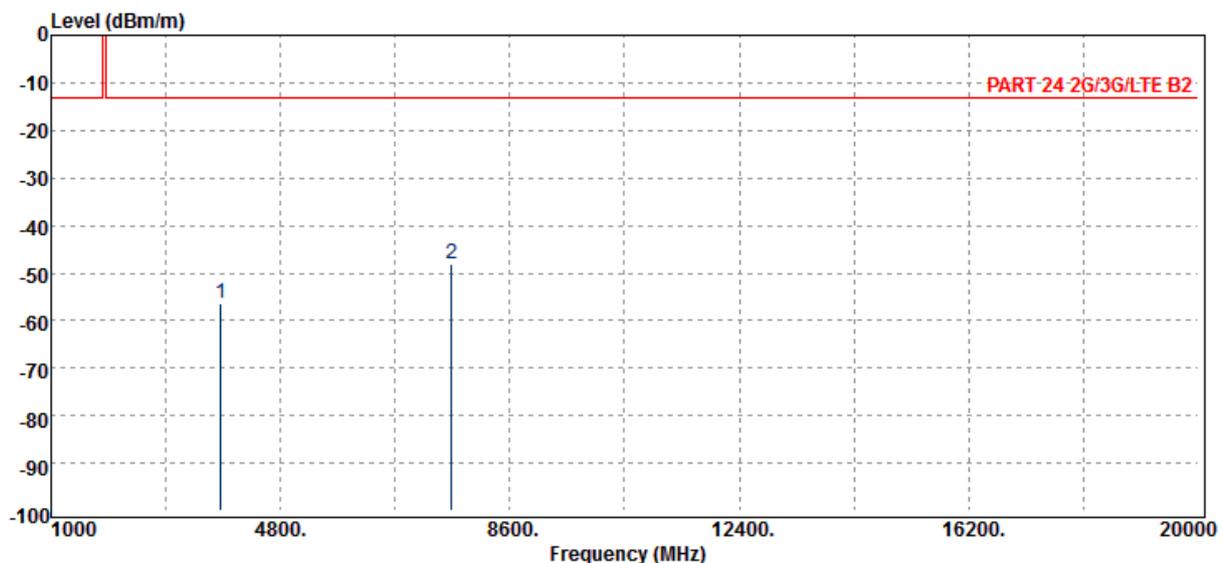
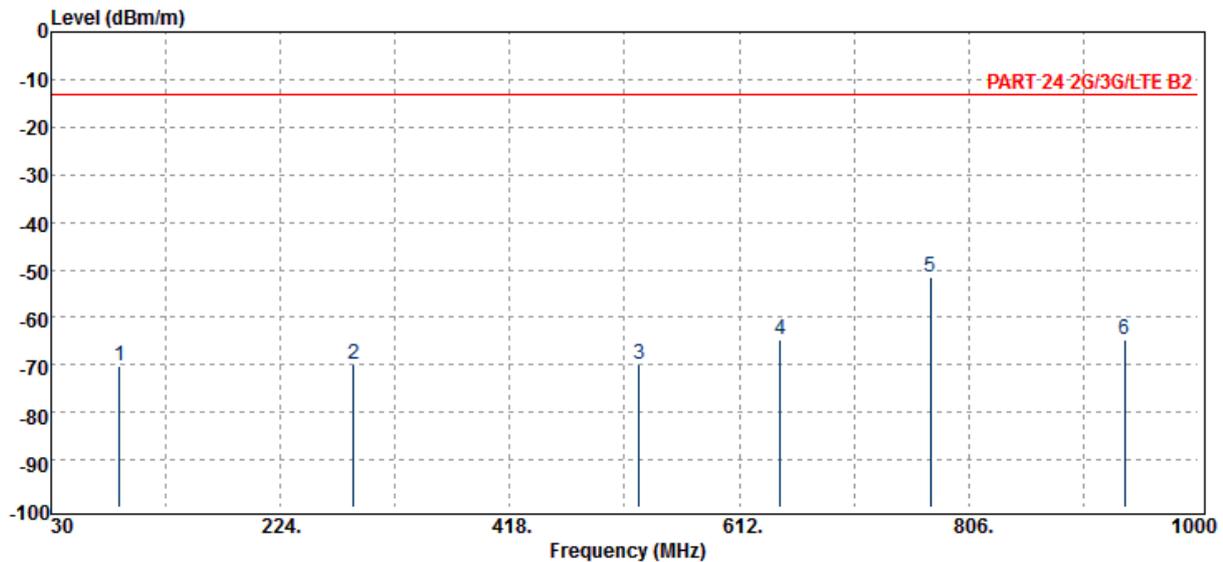
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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Band	:WCDMA B2	Test Date	:2014-11-26
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



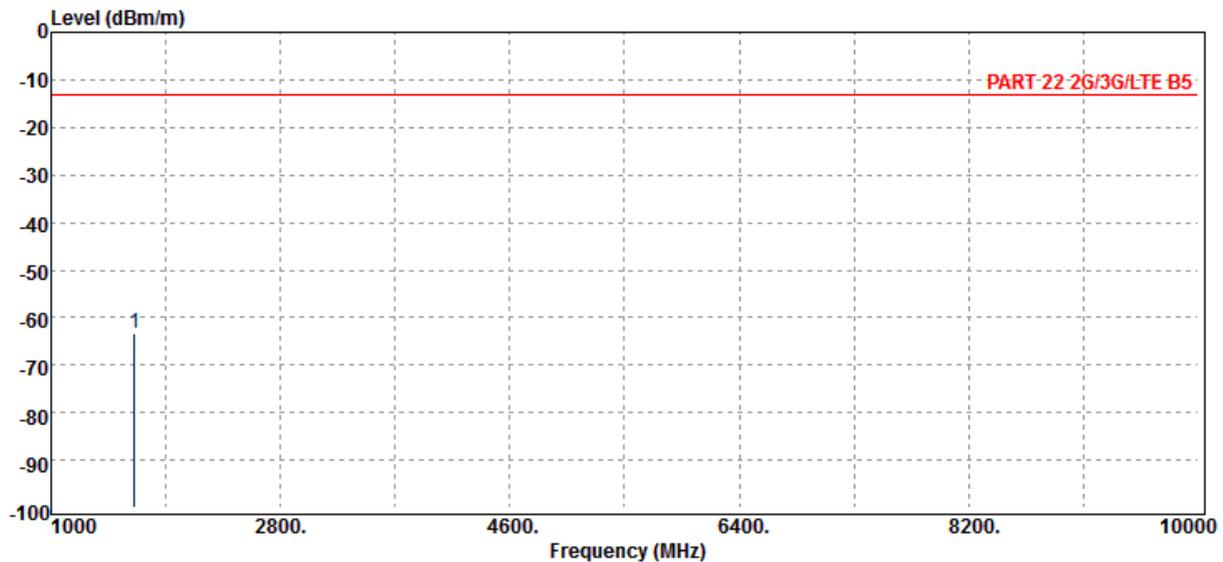
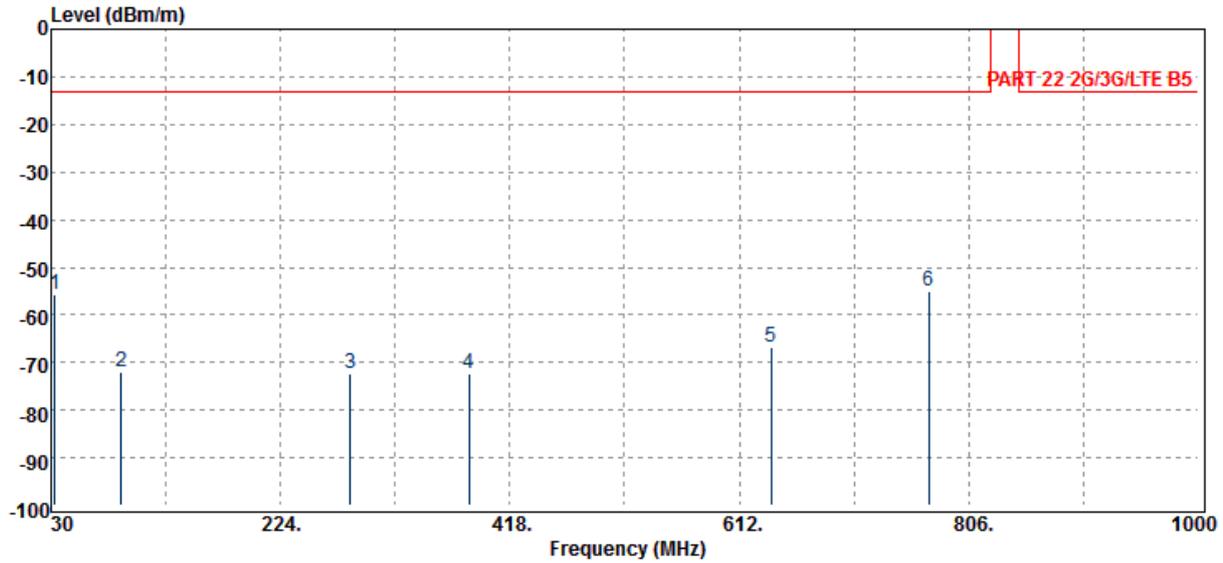
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Radiated Spurious Emission Measurement Result: HSDPA V Mode

Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

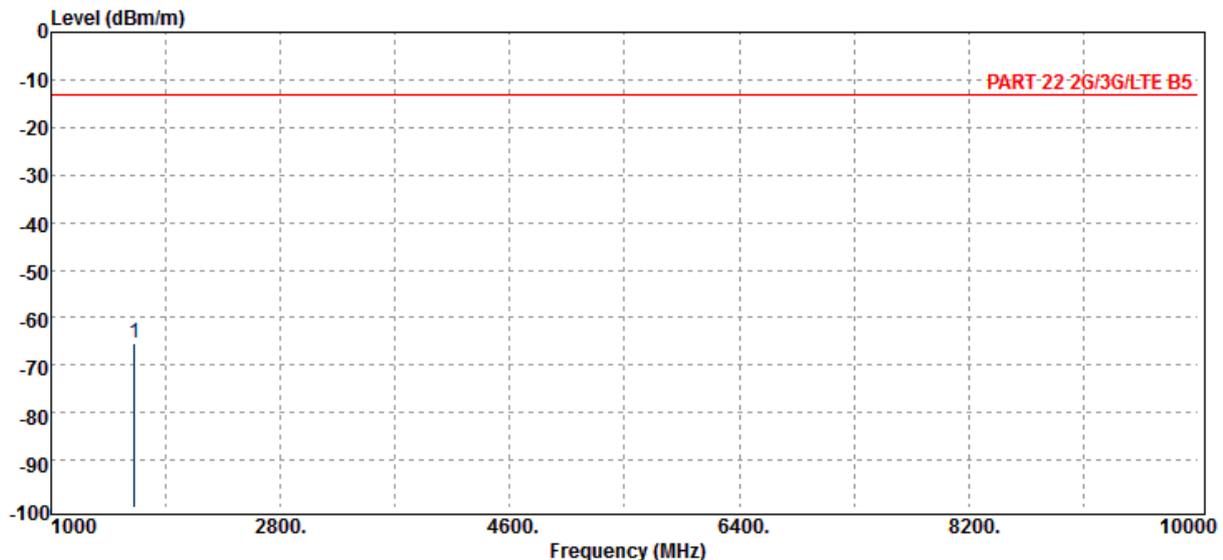
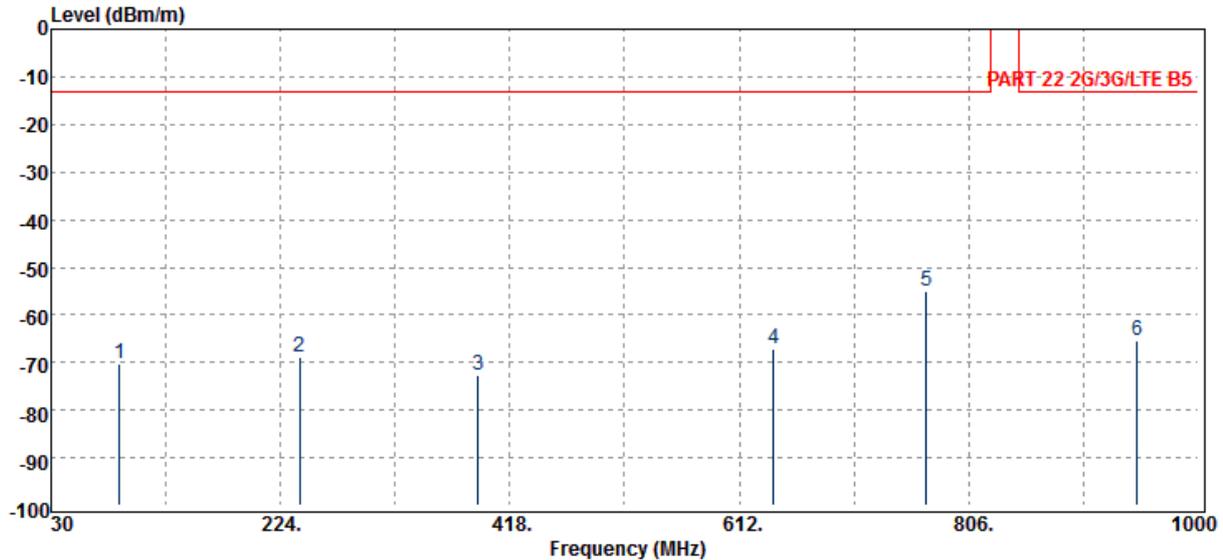


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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

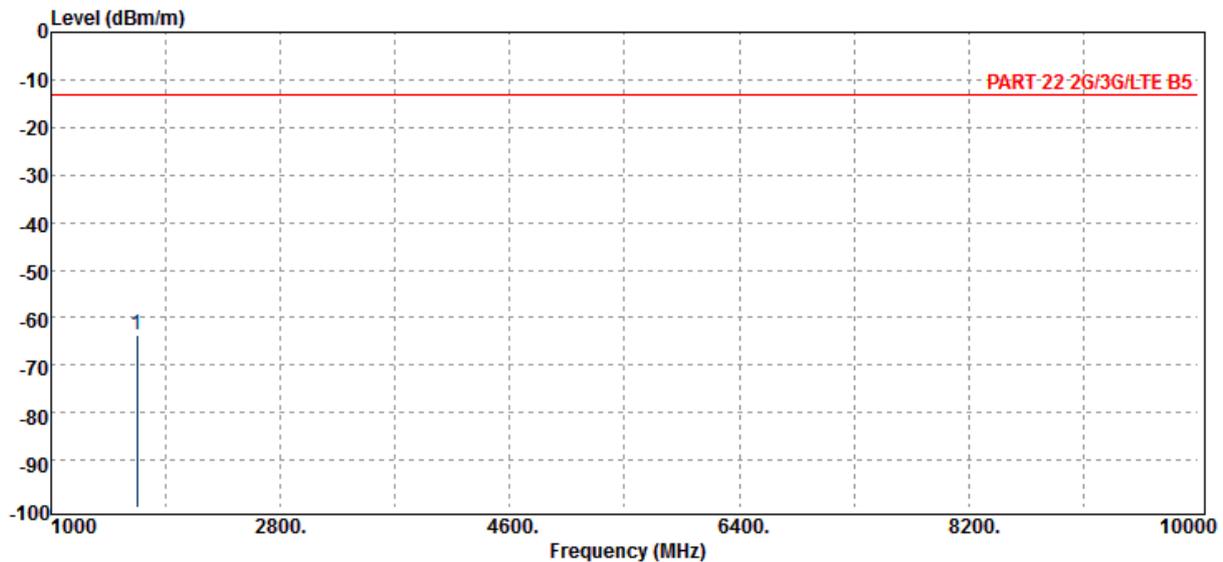
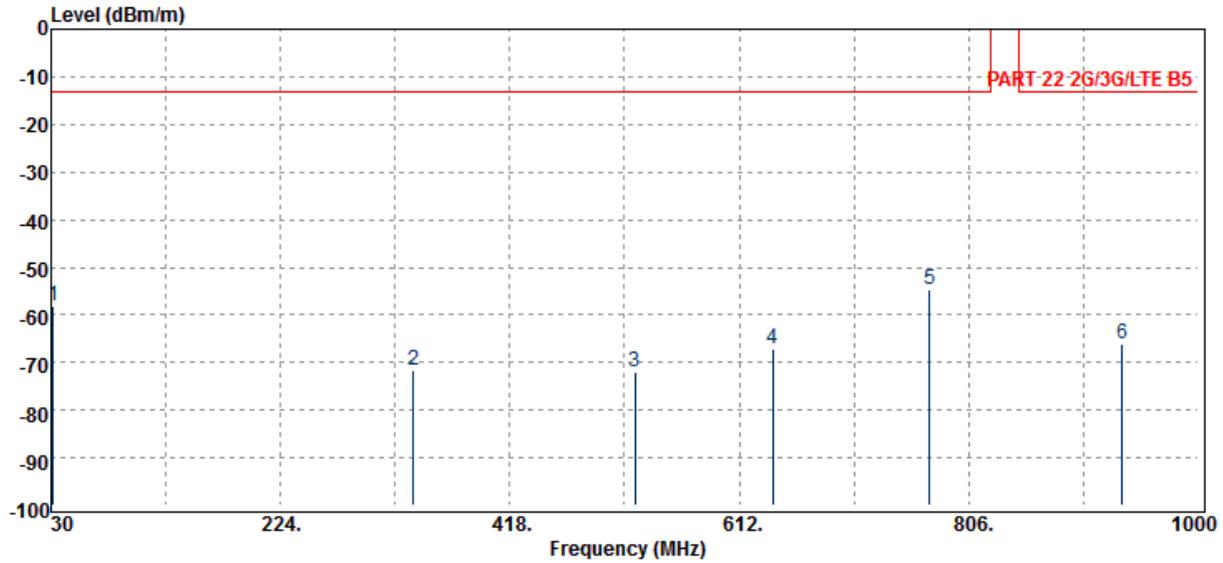


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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

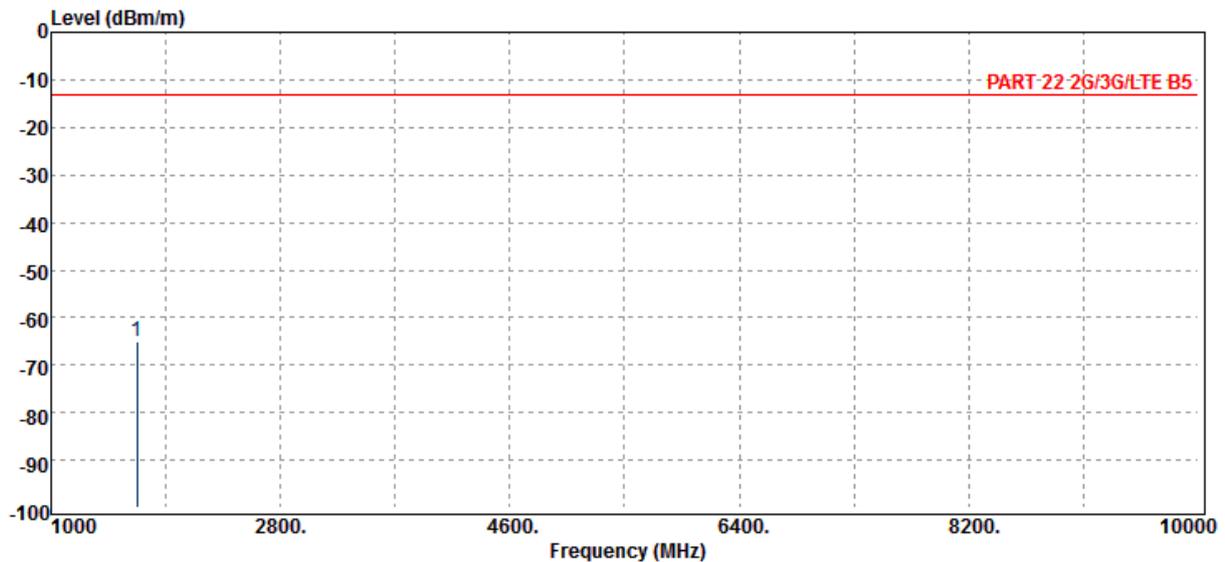
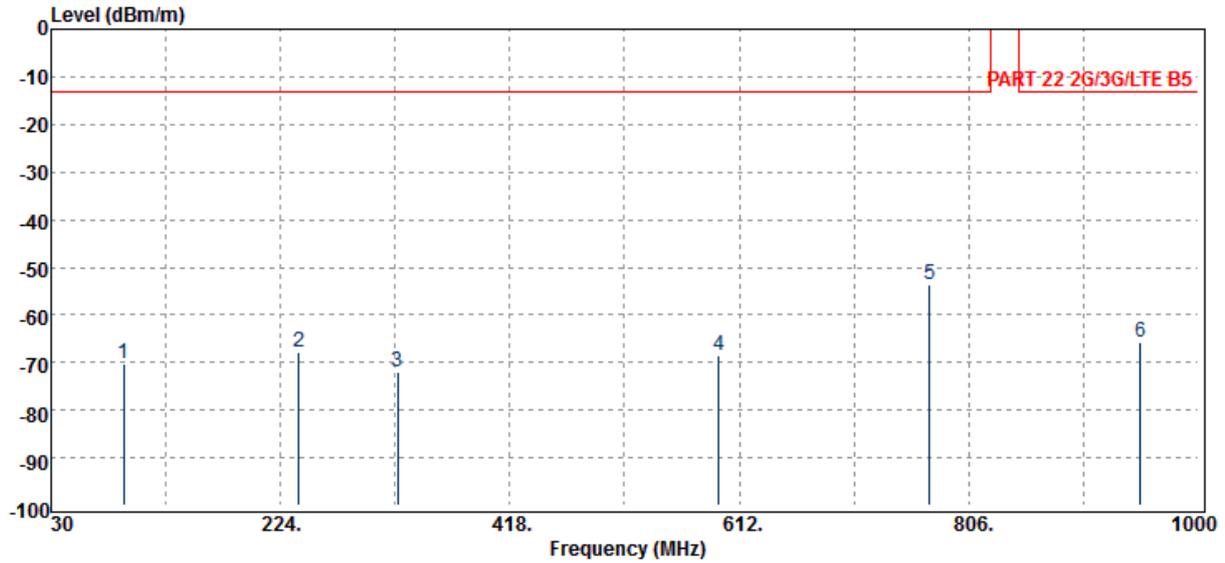


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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

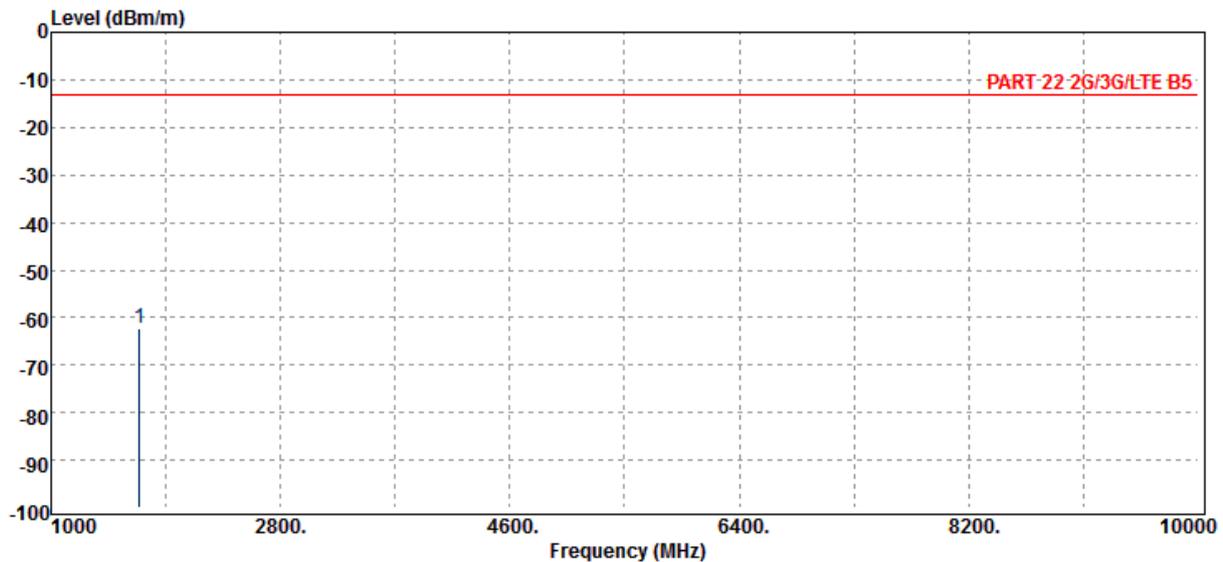
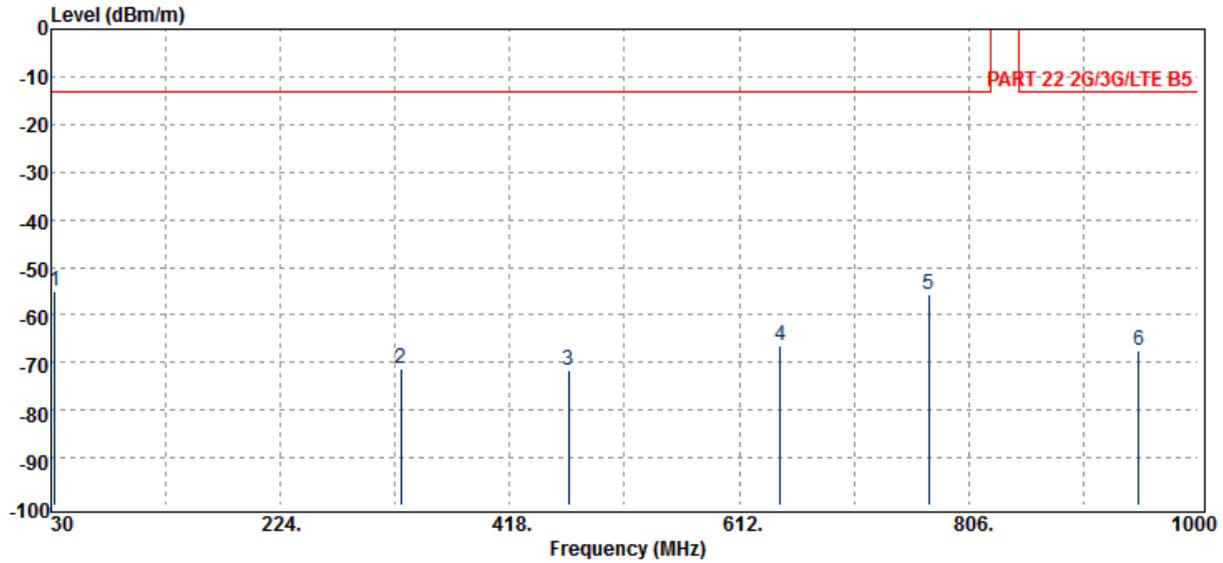


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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

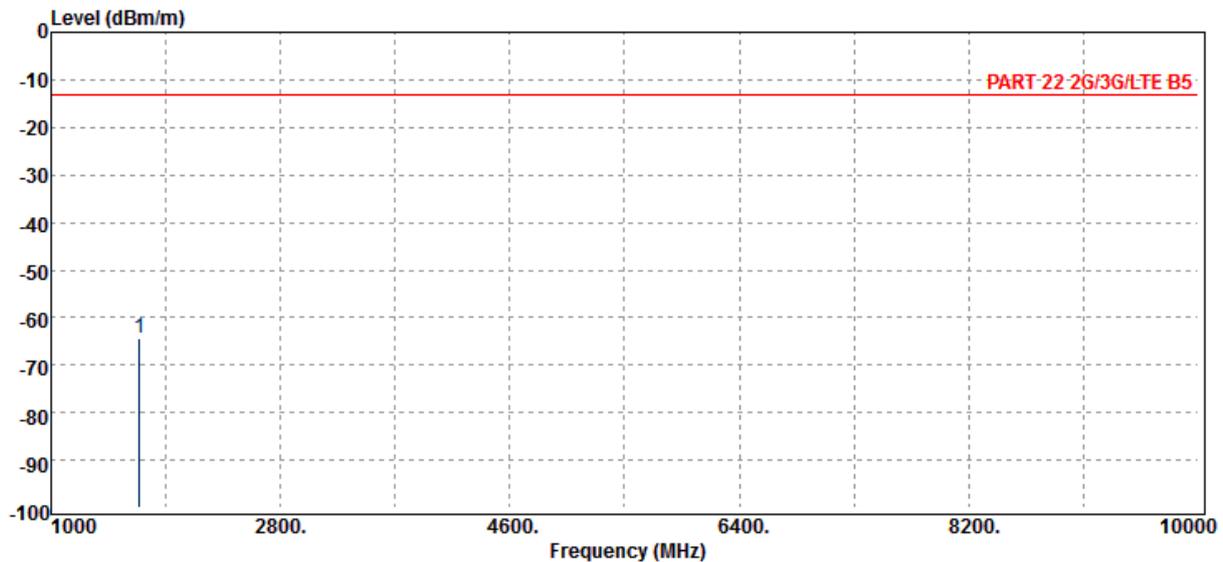
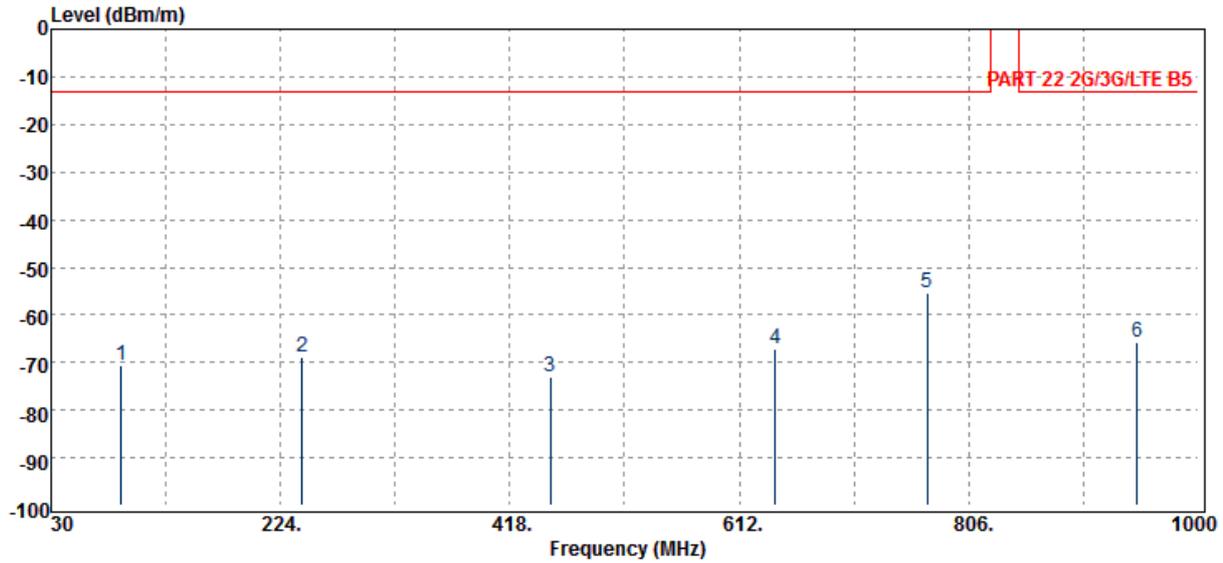


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Operation Band	:WCDMA B5	Test Date	:2014-11-26
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



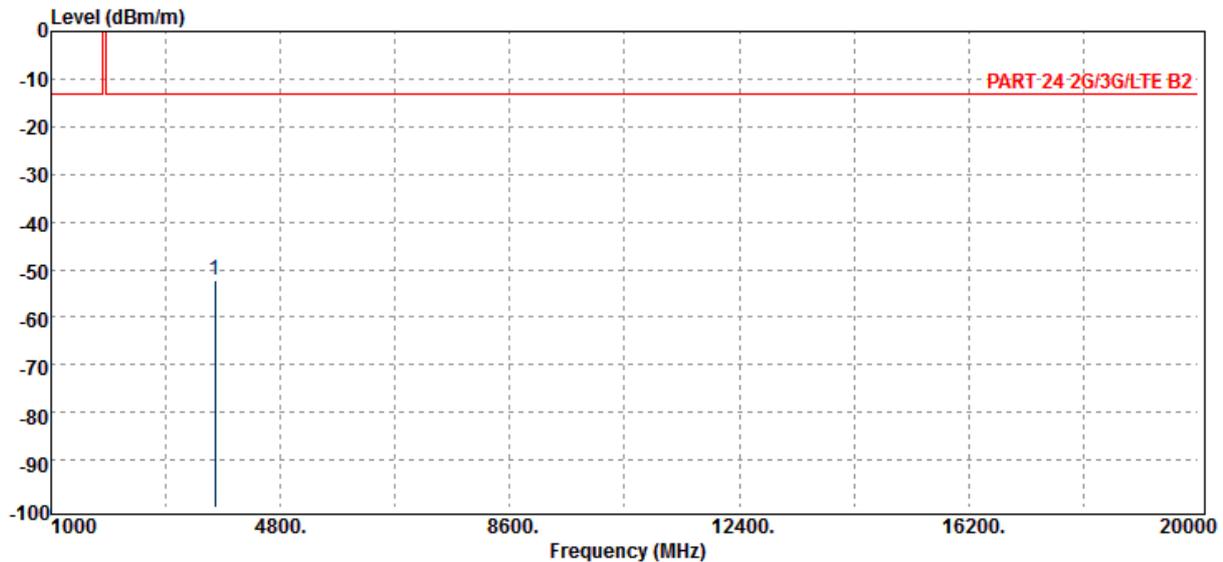
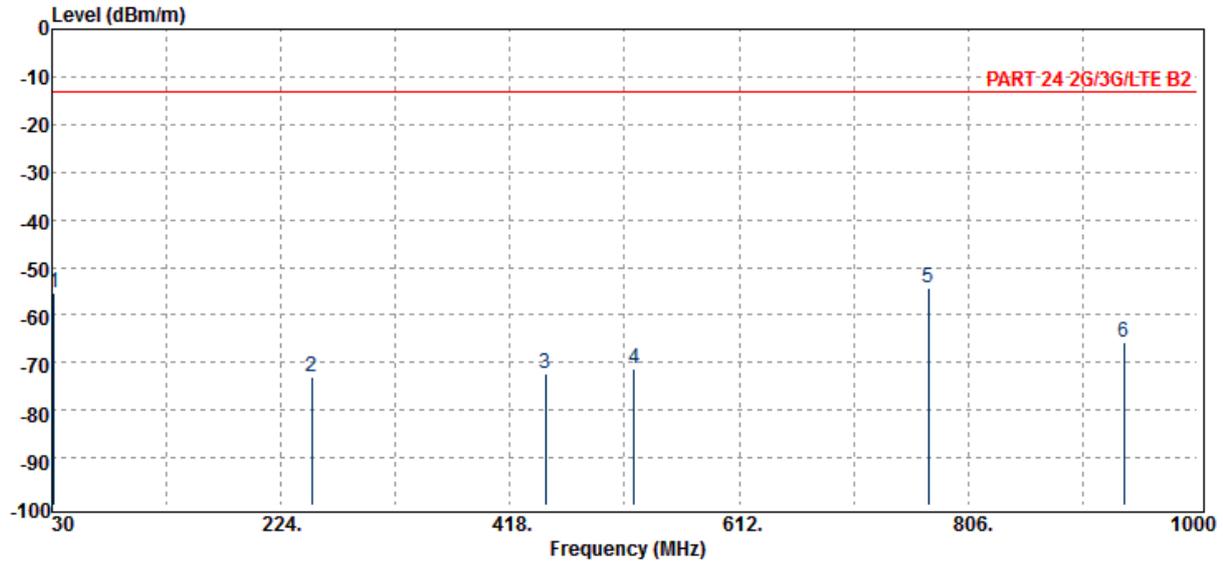
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Radiated Spurious Emission Measurement Result: 20MHz BW LTE-Band 2(The Worst Case)

ARFCN	:CH 18700 16QAM BW	Test Date	:2014-11-20
	20 RB 1 0		
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1860 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

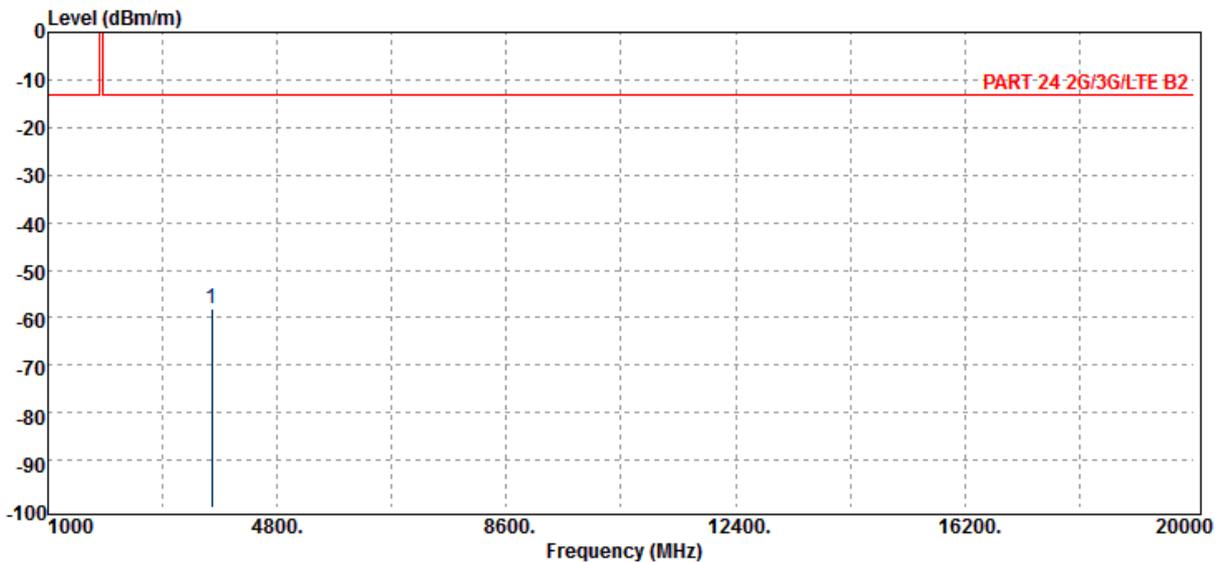
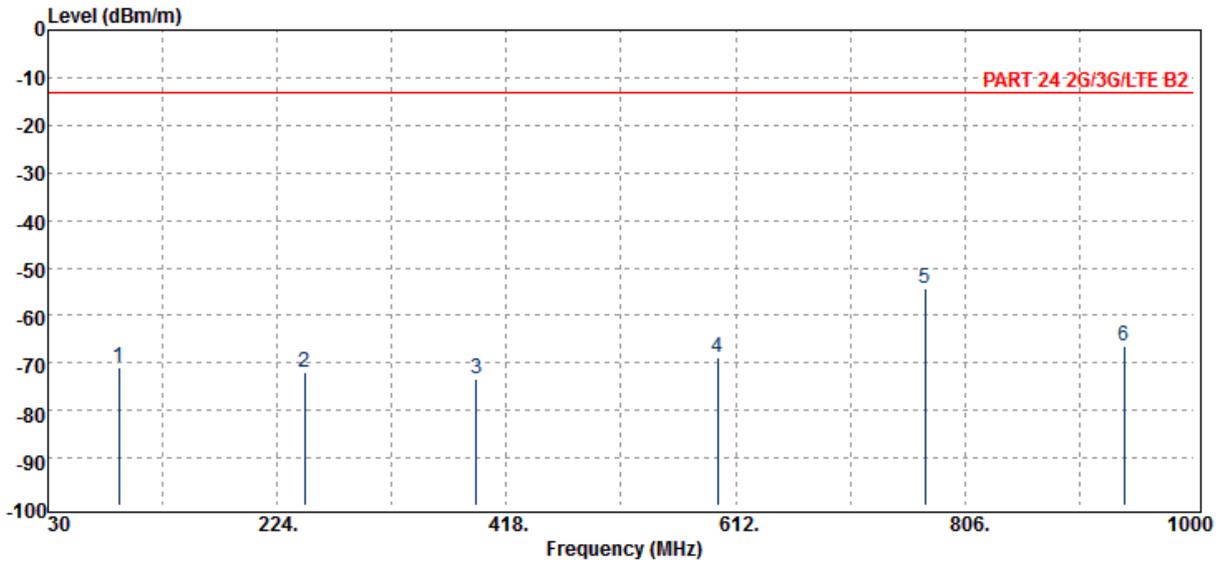


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ARFCN	:CH 18700 16QAM BW	Test Date	:2014-11-20
	20 RB 1 0		
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1860 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

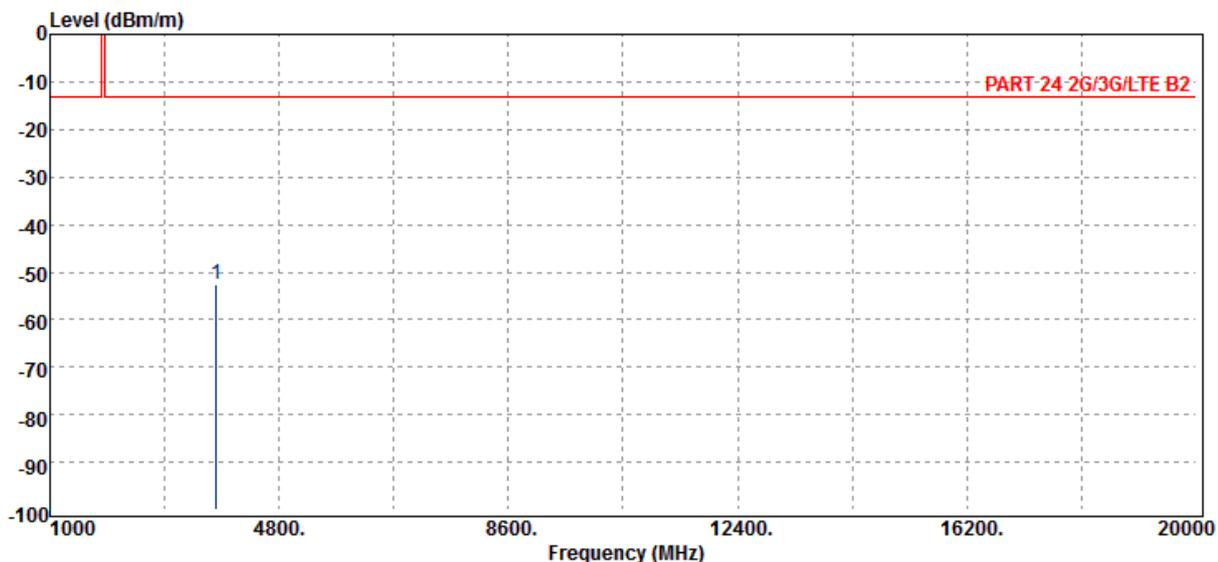
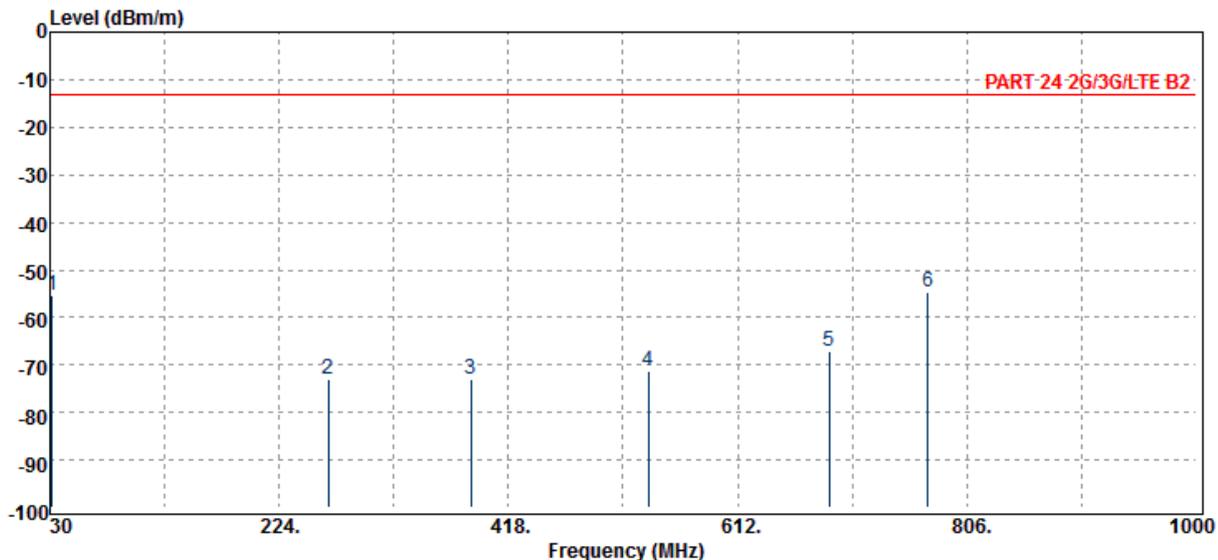


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ARFCN	:CH 18900 16QAM BW 20 RB 1 0	Test Date	:2014-11-20
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

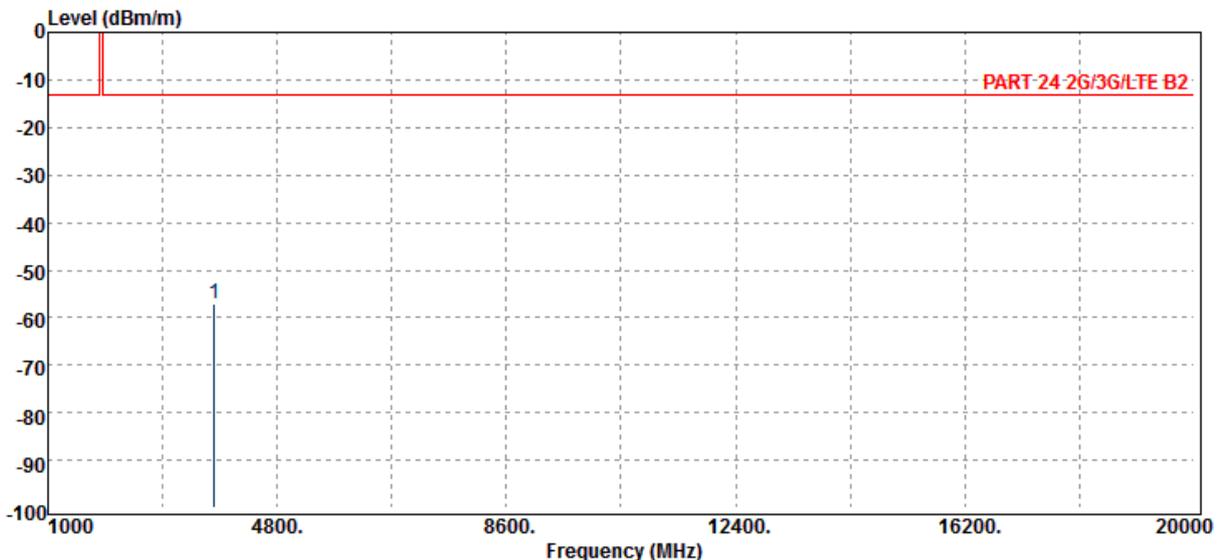
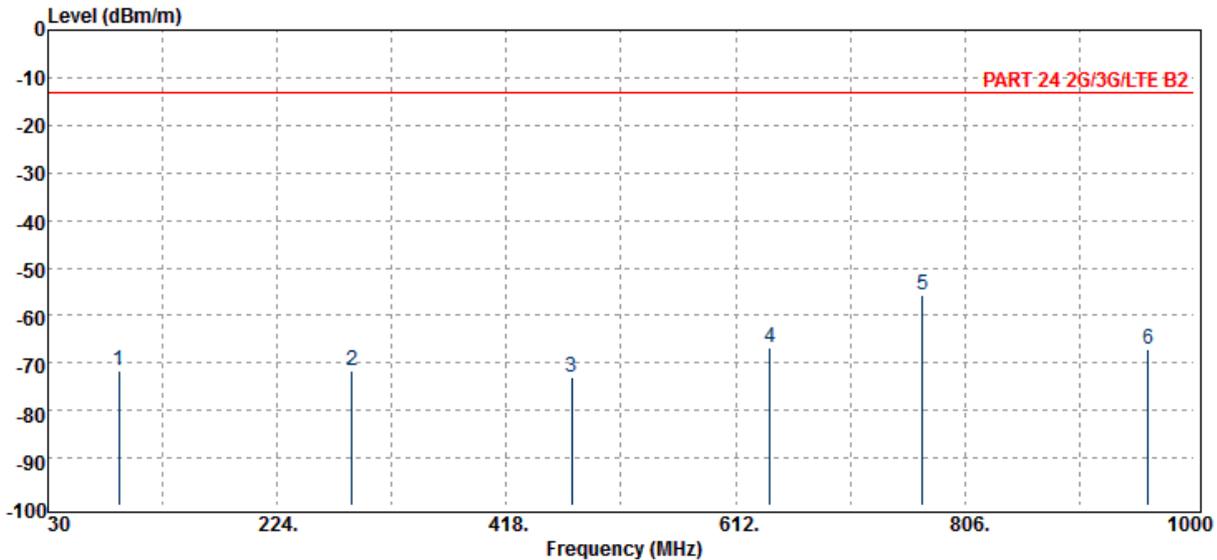


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ARFCN	:CH 18900 16QAM BW 20 RB 1 0	Test Date	:2014-11-20
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

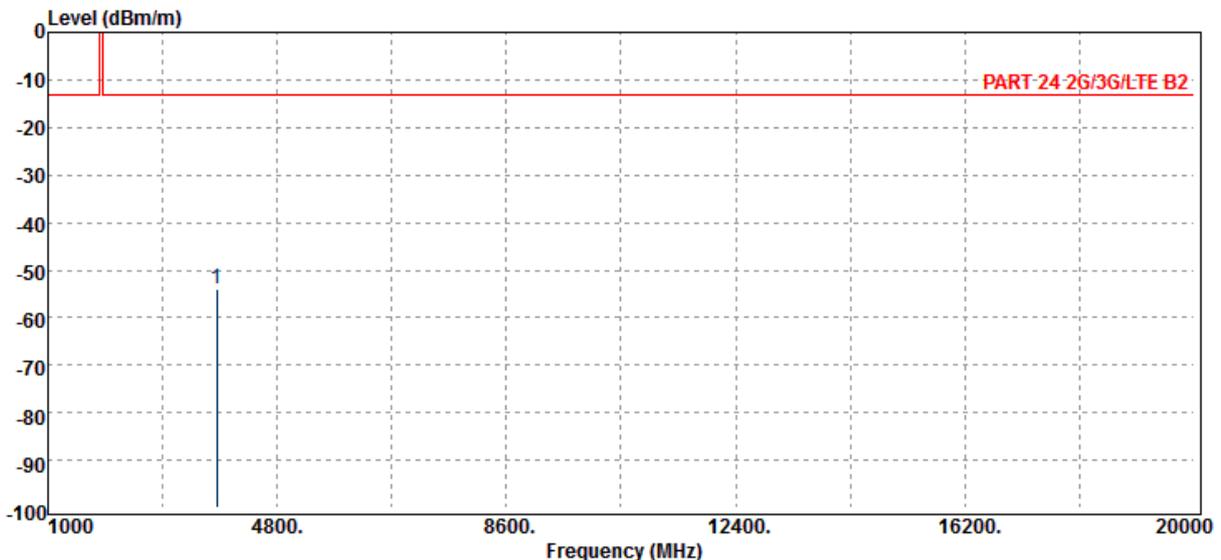
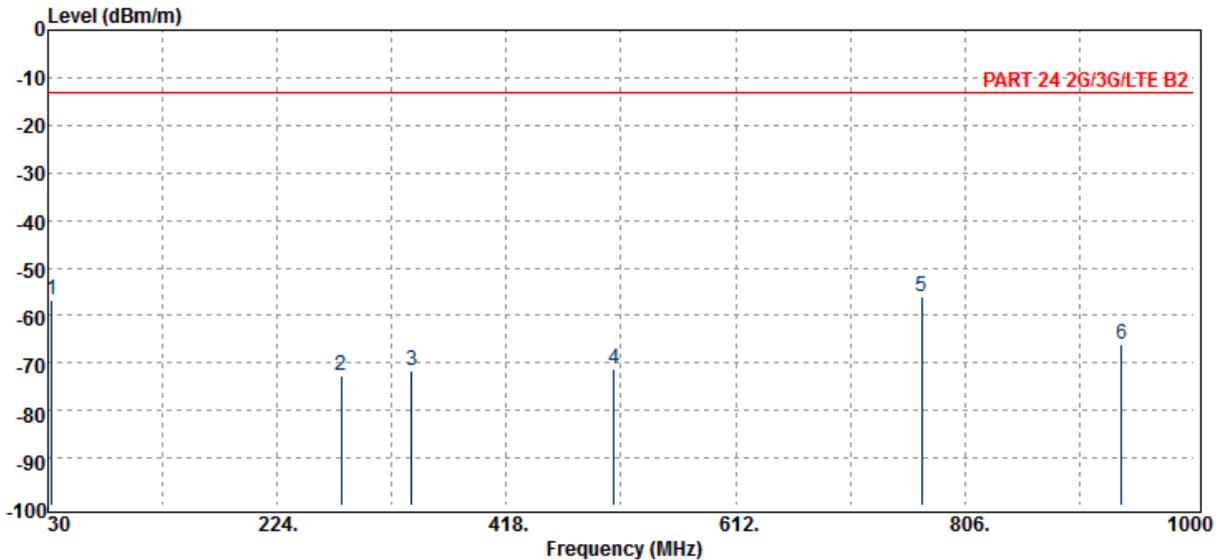


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ARFCN	:CH 19100 16QAM BW 20 RB 1 0	Test Date	:2014-11-20
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1900 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

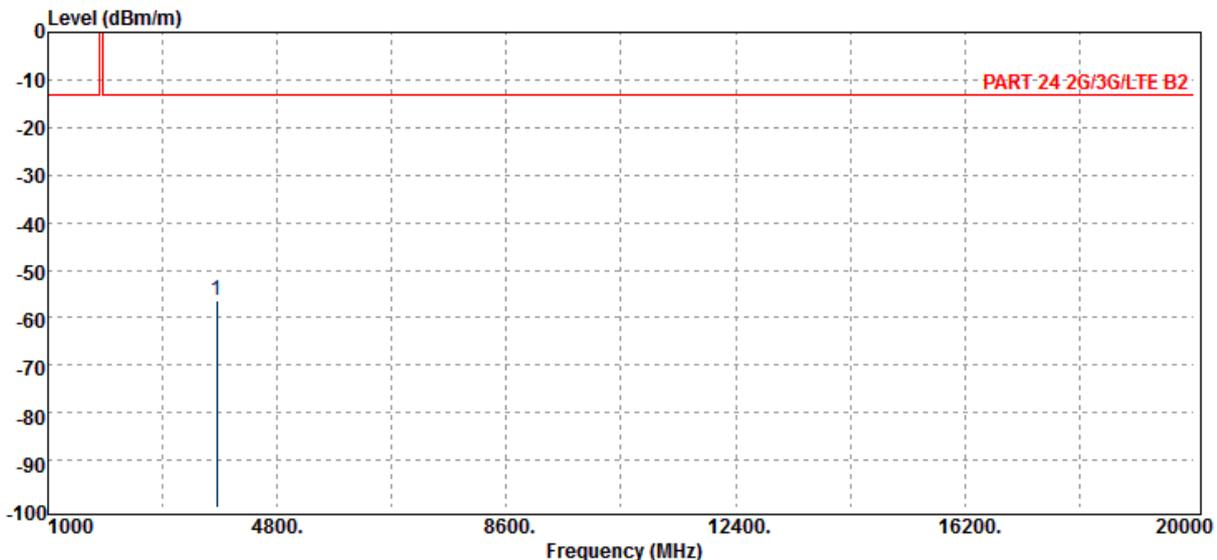
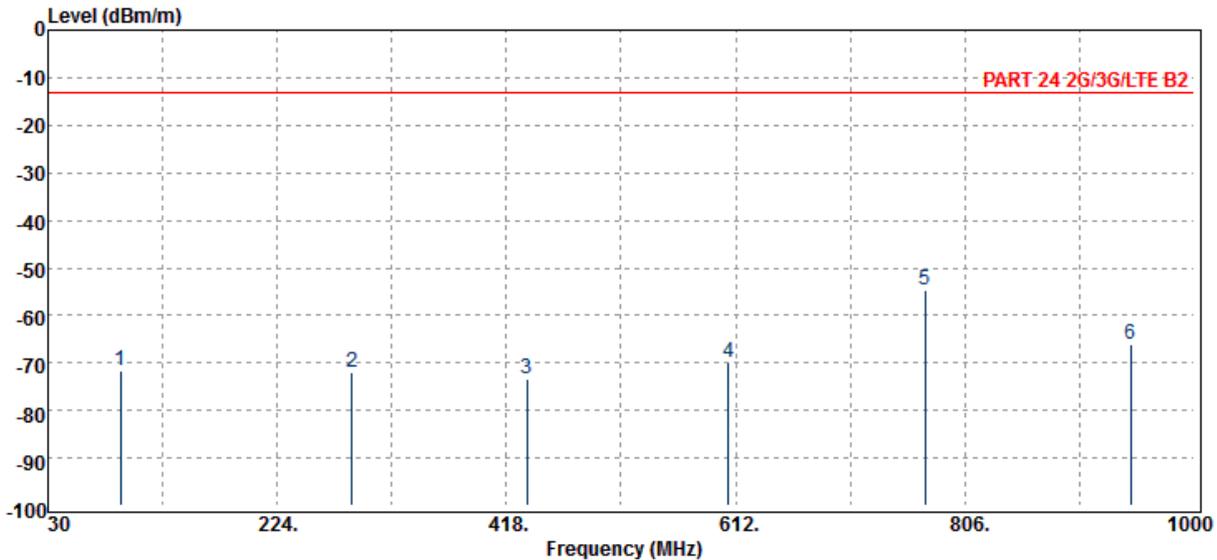


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ARFCN	:CH 19100 16QAM BW 20 RB 1 0	Test Date	:2014-11-20
Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1900 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



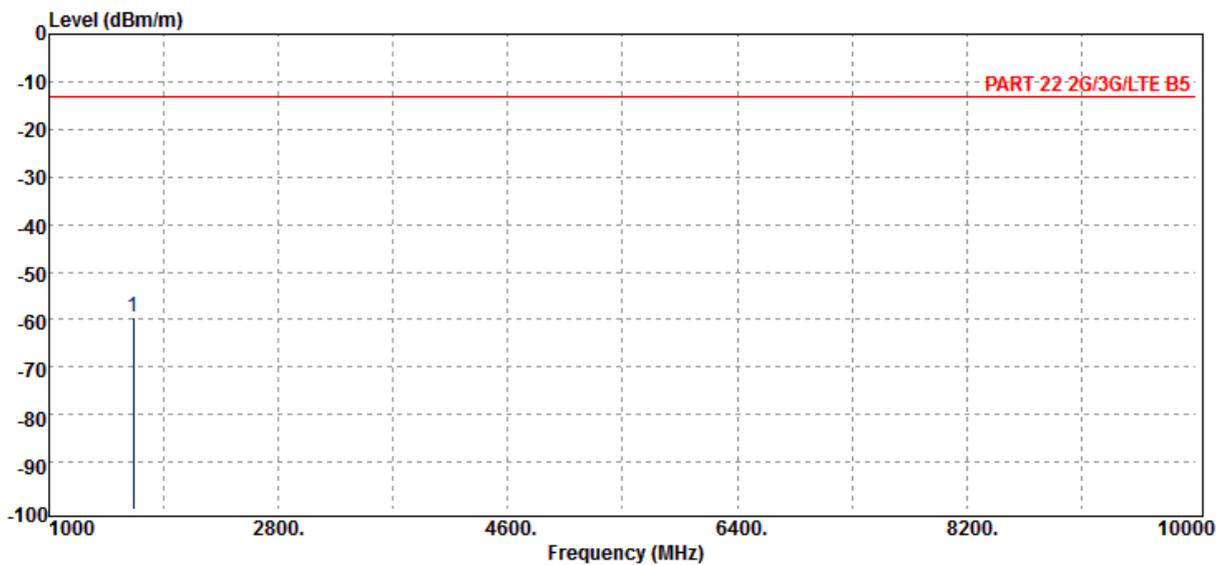
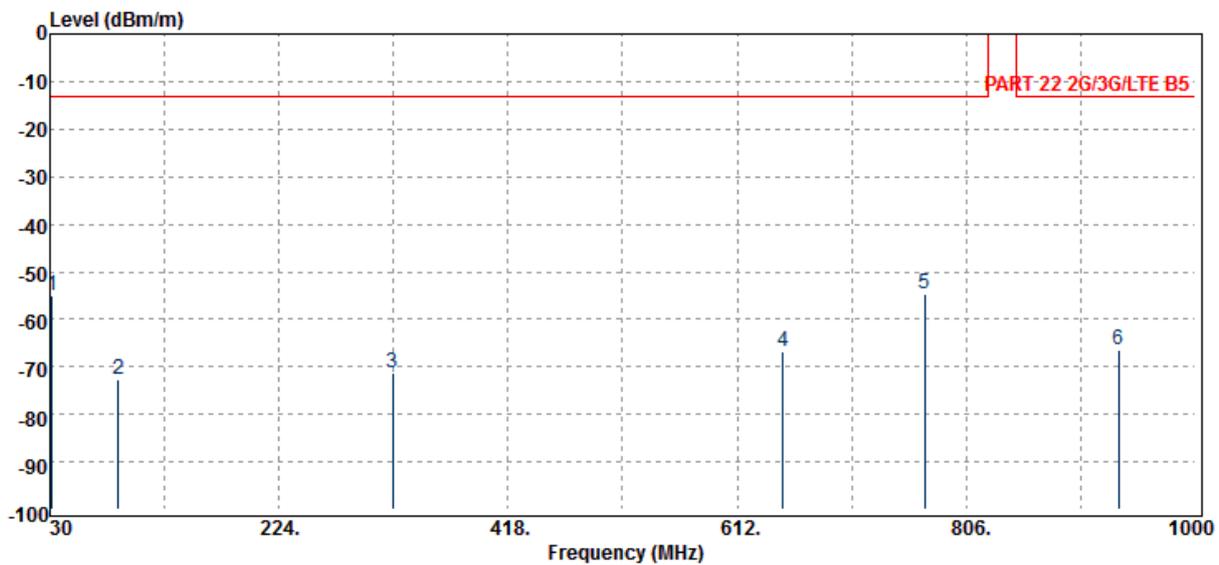
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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band5(The Worst Case)

ARFCN	:CH 20450 16QAM BW	Test Date	:2014-11-26
	10 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

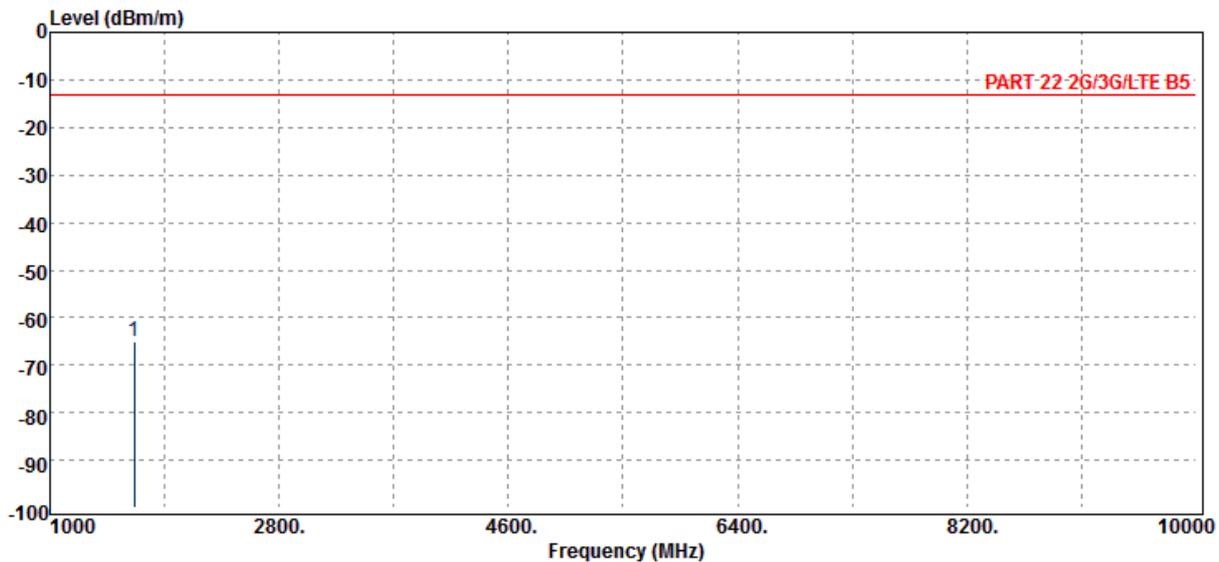
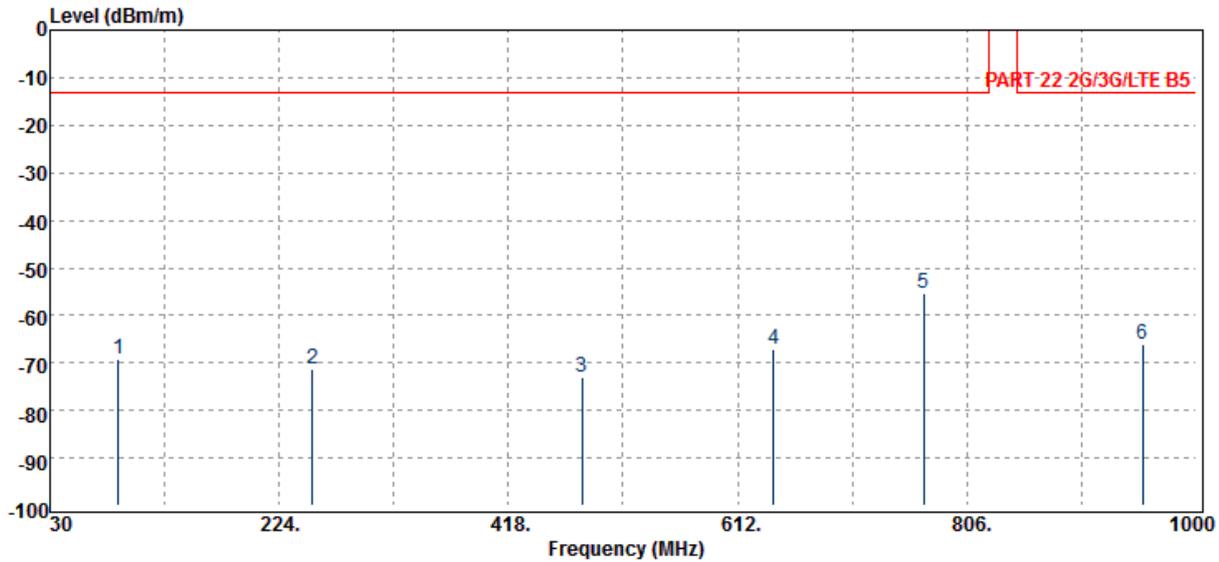


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ARFCN	:CH 20450 16QAM BW	Test Date	:2014-11-26
	10 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

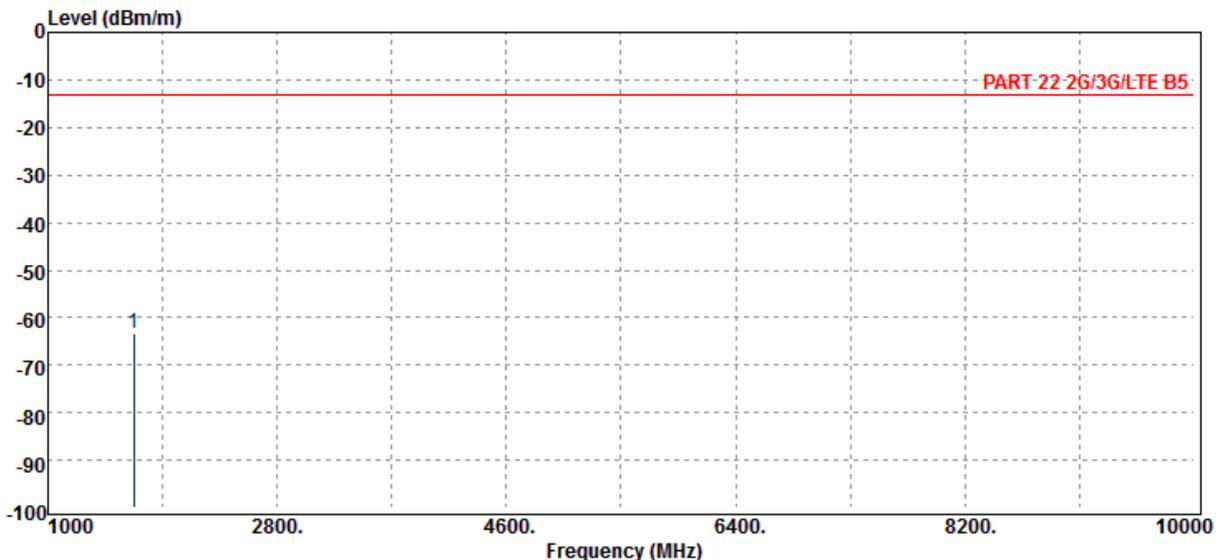
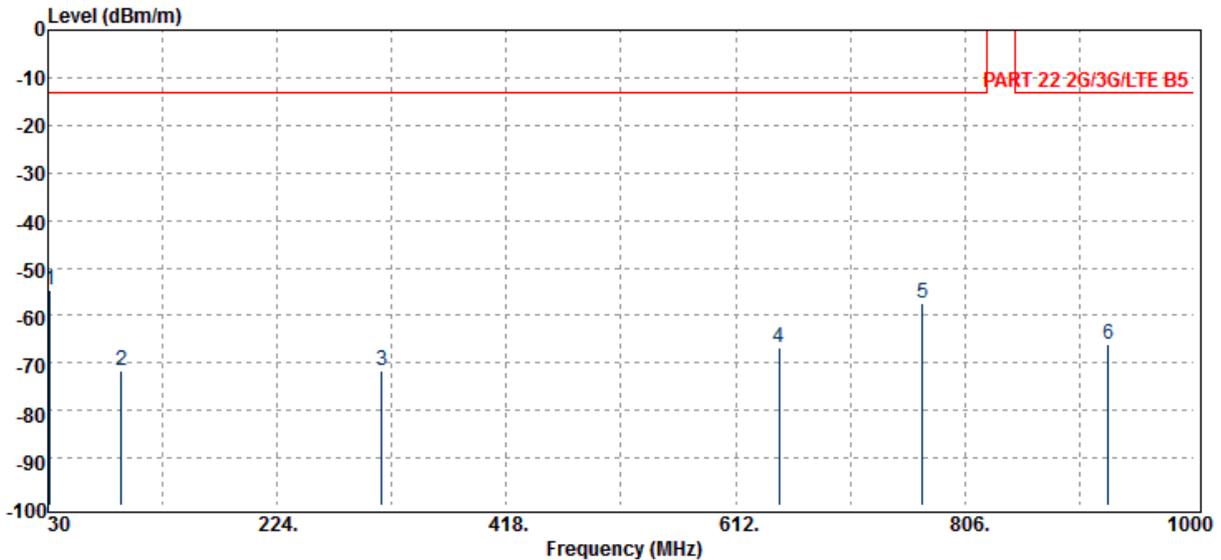


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ARFCN	:CH 20525 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

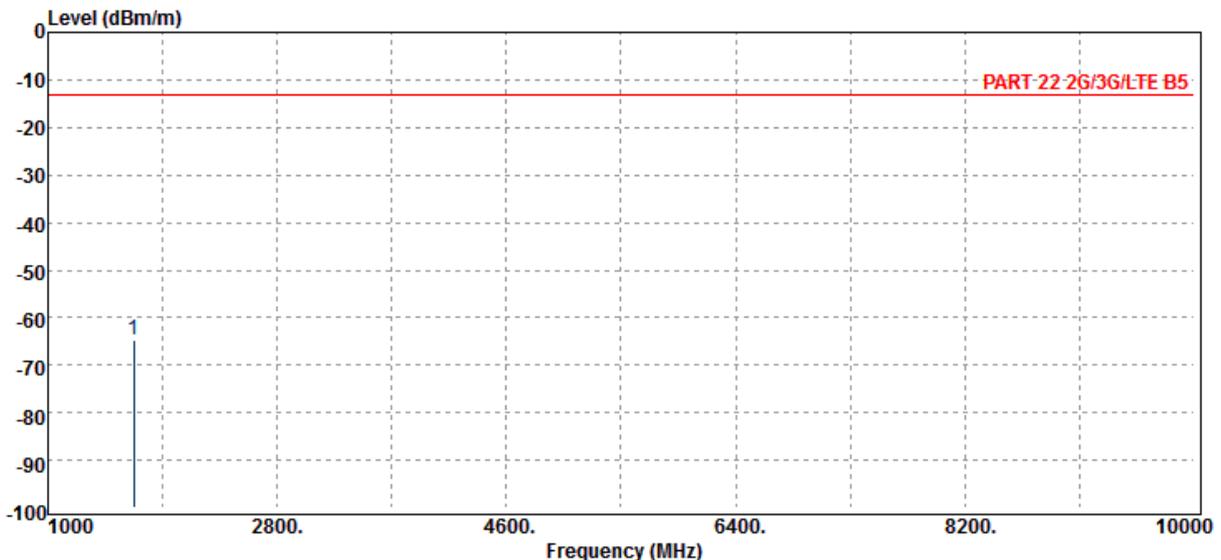
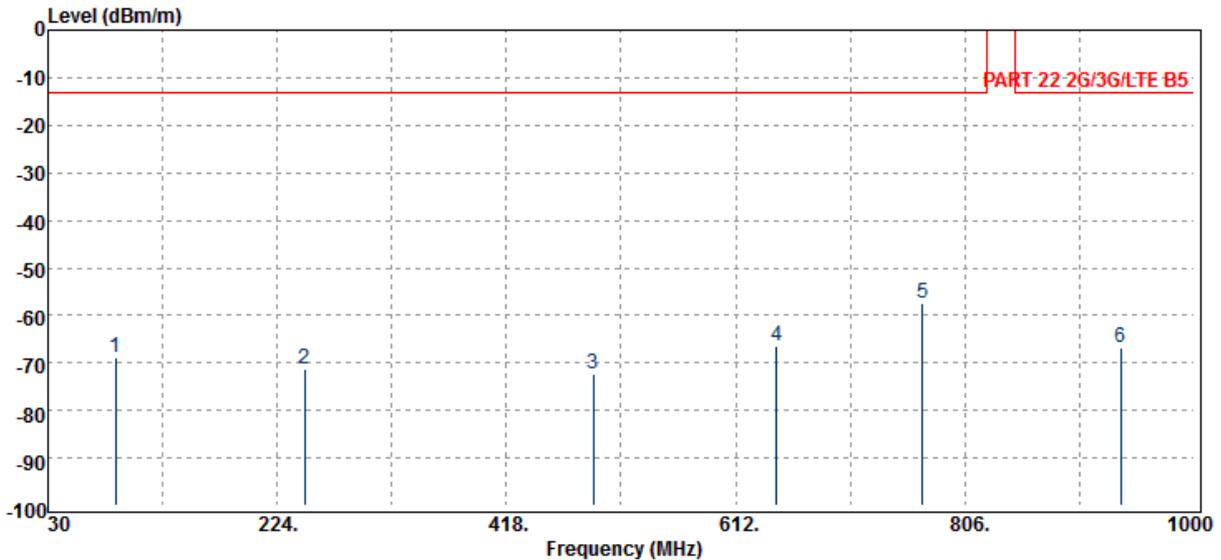


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ARFCN	:CH 20525 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

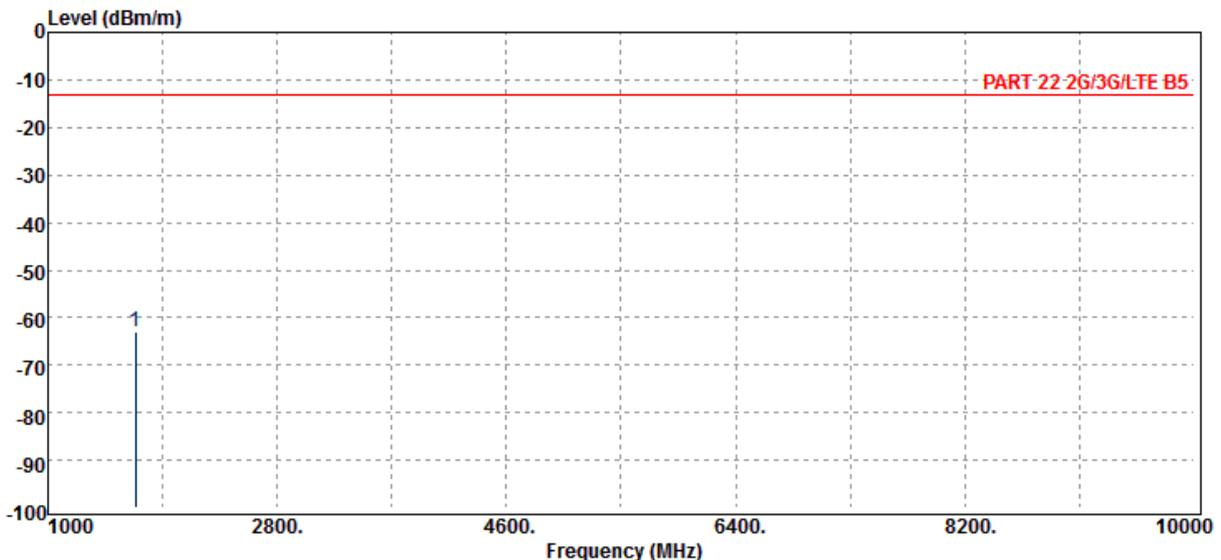
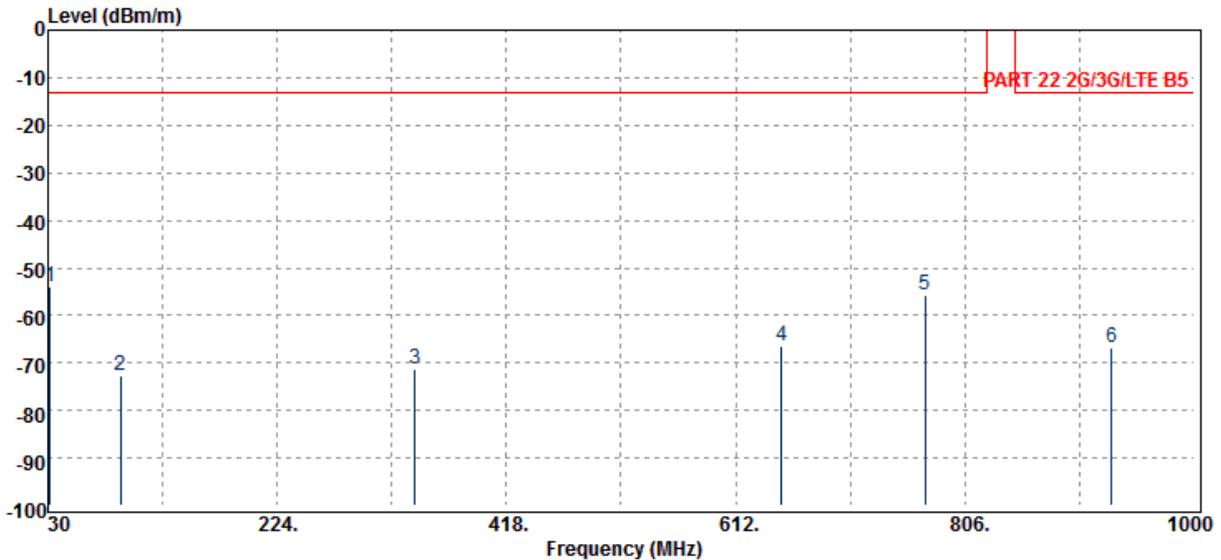


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ARFCN	:CH 20600 16QAM BW	Test Date	:2014-11-26
	10 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

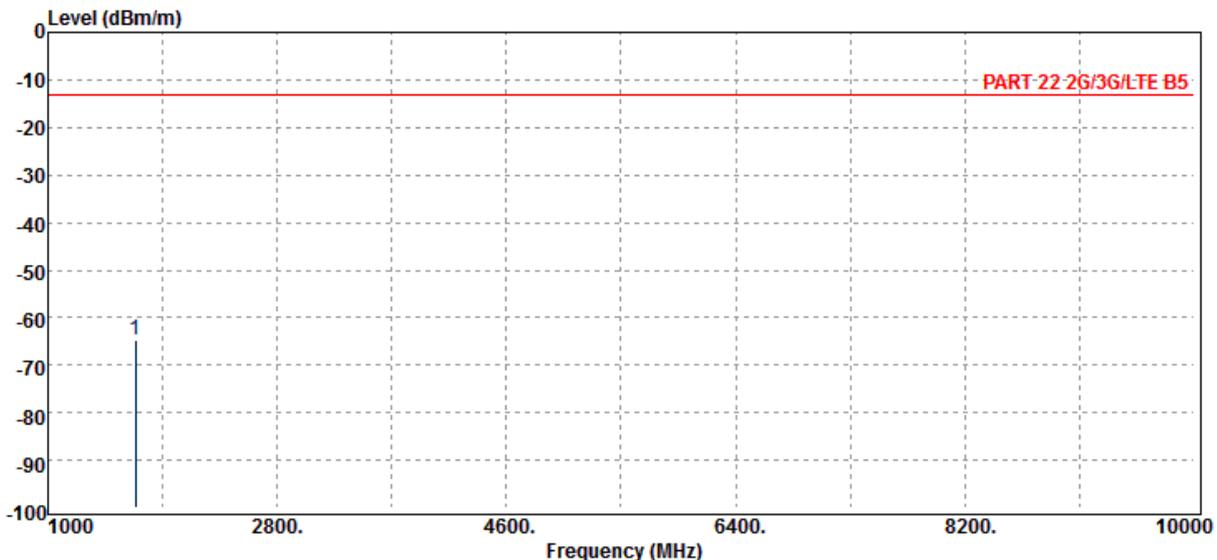
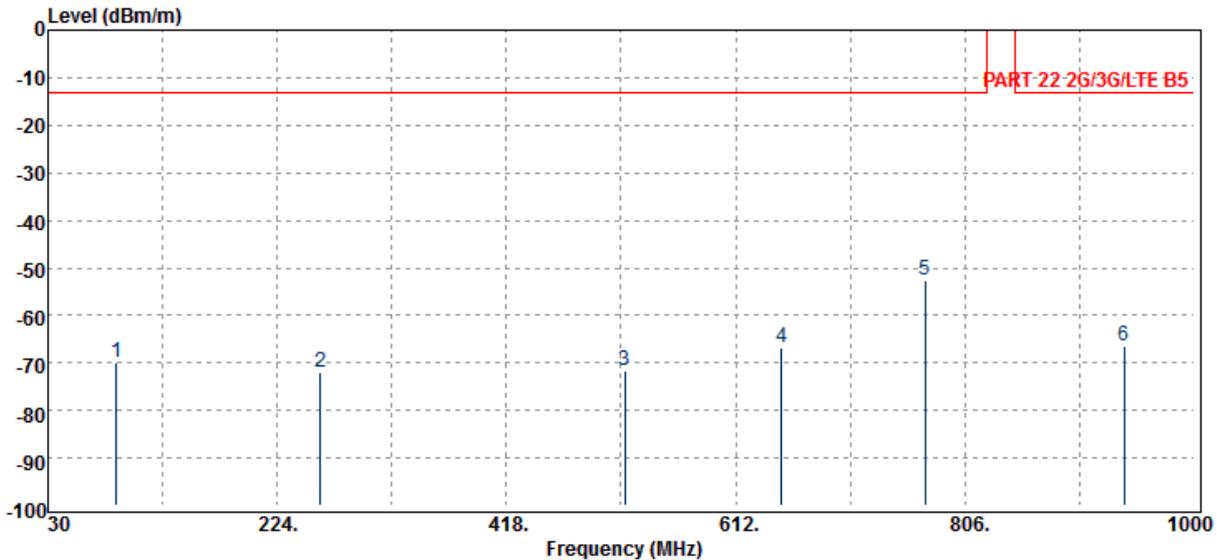


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ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Test Date	:2014-11-26
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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