

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C &
SUBPART L REQUIREMENT

OF

Product Name: PDA Phone

Brand Name: Sony

Type No.: PM-0731-BV

Model Difference: N/A

FCC ID: PY7PM-0731

Report No.: EH/2014/10039

Issue Date: Mar. 05, 2014

FCC Rule Part: 2, 22H & 24E & 27C & L

Prepared for: Sony Mobile Communications AB
 Nya Vattentornet 22188 Lund/Sweden

Prepared by: SGS Taiwan Ltd.
 Electronics & Communication Laboratory
 No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

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VERIFICATION OF COMPLIANCE

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

Product Name: PDA Phone

Brand Name: Sony

Type No.: PM-0731-BV

Model Difference: N/A

FCC ID: PY7PM-0731

File Number: EH/2014/10039

Date of test: Jan. 29, 2014 ~ Mar. 05, 2014

Date of EUT Received: Jan. 29, 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: Marcus Tseng **Date:** Mar. 05, 2014

Marcus Tseng / Engineer

Prepared By: Judy Hsu **Date:** Mar. 05, 2014

Judy Hsu / Clerk

Approved By: Jim Chang **Date:** Mar. 05, 2014

Jim Chang / Supervisor

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Revision History

Report Number	Revision	Description	Issue Date
EH/2014/10039	Rev.00	Initial creation of document	Mar. 05, 2014

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Table of Contents

1. GENERAL PRODUCT INFORMATION.....	6
1.1. Product Description.....	6
1.2. Related Submittal(s) / Grant (s)	14
1.3. Test Methodology.....	14
1.4. Test Facility	14
1.5. Special Accessories	14
1.6. Equipment Modifications	14
2. SYSTEM TEST CONFIGURATION.....	15
2.1. EUT Configuration.....	15
2.2. EUT Exercise	15
2.3. Test Procedure	15
2.4. Measurement Equipment Used:	16
2.5. Configuration of Tested System	18
3. SUMMARY OF TEST RESULTS.....	19
4. DESCRIPTION OF TEST MODES	23
5. MEASUREMENT UNCERTAINTY	27
6. RF POWER OUTPUT MEASUREMENT	28
6.1. Standard Applicable:	28
6.2. Test Set-up:.....	29
6.3. Measurement Procedure:.....	29
6.4. Measurement Equipment Used:	29
6.5. Measurement Result:.....	30
7. ERP, EIRP MEASUREMENT.....	53
7.1. Standard Applicable:	53
7.2. Test SET-UP (Block Diagram of Configuration):	53
7.3. Measurement Procedure:.....	55
7.4. Measurement Equipment Used:	56
7.5. Measurement Result: (Peak) –using option of peak measurement	57
8. OCCUPIED BANDWIDTH MEASUREMENT	115
8.1. Standard Applicable:	115
8.2. Test Set-up:.....	115
8.3. Measurement Procedure:.....	115
8.4. Measurement Equipment Used:	115
8.5. Measurement Result:.....	115

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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS 190

9.1. Standard Applicable: 190

9.2. Test SET-UP: 192

9.3. Measurement Procedure: 193

9.4. Measurement Equipment Used: 193

9.5. Measurement Result: 193

10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT 506

10.1. Standard Applicable: 506

10.2. EUT Setup (Block Diagram of Configuration): 506

10.3. Measurement Procedure: 507

10.4. Measurement Equipment Used: 507

10.5. Measurement Result: 507

11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT 604

11.1. Standard Applicable: 604

11.2. Test Set-up: 604

11.3. Measurement Procedure: 605

11.4. Measurement Equipment Used: 605

11.5. Measurement Result: 606

12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT 621

12.1. Standard Applicable: 621

12.2. Test Set-up: 621

12.3. Measurement Procedure: 621

12.4. Measurement Equipment Used: 621

12.5. Measurement Result: 622

13. PEAK TO AVERAGE RATIO 636

13.1. Standard Applicable: 636

13.2. Test SET-UP (Block Diagram of Configuration): 636

13.3. Measurement Procedure: 636

13.4. Measurement Equipment Used: 636

13.5. Measurement Result: 636

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION 676

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	PDA Phone	
Brand Name:	Sony	
Type No.:	PM-0731-BV	
Model Difference:	N/A	
Data Cable (USB):	1.Model No.: EC450, Supplier: K-one Type No.: AI-0700, Length: 100 cm	
	2.Model No.: EC801, Supplier: Sony Type No.: AI-0401, Length: 100 cm	
Simple Hands-Free (SHF-White):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Simple Hands-Free (SHF-Black):	Model No.: MH410c, Supplier: Foster Electric Type No.: CCA-0004017	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
Hi-Fi Wireless Headset:	Model No.: MW600, Supplier: BALDA Type No.: DDA-0002029.B coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA Type No.: AG-0502)	
Hardware Version:	A	
Software Version:	18.1.A.0.20	
Power Supply:	3.8Vdc	
	Battery:	Model No.: LIS1546ERPC, Supplier: Sony Type No.: N/A
	Adapter:	1.Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US
2.Model No.: EP880, Supplier: Salcomp Type No.: AC-0400-US		

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Bluetooth_BR+EDR:

Bluetooth Version:	V3.0+HS
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	10.04dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain: -1.34dBi

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.0 Dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	1.85dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: -1.34dBi

NFC:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Antenna Type	Loop Antenna
Modulation Type	ASK, BPSK

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Antenna Plus:

Operation Frequency:	2402 – 2480MHz
Transmit Power	101.78dBuV/m at 3m.
Channel number:	79
Modulation Type:	GFSK
Antenna Designation:	PIFA Antenna, Gain: -1.34dBi

WLAN 2.4GHz+5.7GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 20.35dBm g: 21.91dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20: 20.55dBm	OFDM
11a	5725-5850	5	a: 21.15dBm	OFDM
11n (5GHz)	HT20 5725-5850	5	HT20: 20.22dBm	
11n (5GHz)	HT40 5725-5850	2	HT40: 19.50dBm	
Antenna Designation:	PIFA Antenna, 2.4GHz Gain: -1.34dBi 5GHz Gain: 4.51dBi (5725MHz-5850MHz)			
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 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 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg)	Modulation Technology
11a	5150~5250	4	13.96dBm	OFDM
	5250~5350	4	13.97dBm	
	5470~5725	8	13.99dBm	
11n	HT20 5150~5250	4	HT20: 11.49dBm	OFDM
	HT20 5250~5350	4	HT20: 11.49dBm	
	HT20 5470~5725	8	HT20: 11.83dBm	
11n	HT40 5150~5250	2	HT40: 11.41dBm	OFDM
	HT40 5250~5350	2	HT40: 10.45dBm	
	HT40 5470~5725	3	HT40: 10.48dBm	
Antenna Designation	PIFA Antenna, 5GHz Gain: -0.38dBi (5150MHz-5250MHz) 5GHz Gain: 0.10dBi (5250MHz-5350MHz) 5GHz Gain: 3.98dBi (5470MHz-5725MHz)			
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 33	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 33	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900, Class 33	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 33	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	1.4MHz BW LTE-Band 4	1710.7MHz– 1754.3MHz	23dBm
	3MHz BW LTE-Band 4	1711.5MHz – 1753.5MHz	23dBm
	5MHz BW LTE-Band 4	1712.5MHz – 1752.5MHz	23dBm
	10MHz BW LTE-Band 4	1715MHz – 1750MHz	23dBm
	15MHz BW LTE-Band 4	1717.5MHz – 1747.5MHz	23dBm
	20MHz BW LTE-Band 4	1720MHz – 1745MHz	23dBm
	5MHz BW LTE-Band 7	2502.5MHz – 2567.5MHz	23dBm
	10MHz BW LTE-Band 7	2505.0MHz – 2565.0MHz	23dBm
	15MHz BW LTE-Band 7	2507.5MHz – 2562.5MHz	23dBm
	20MHz BW LTE-Band 7	2510.0MHz – 2560MHz	23dBm
	5MHz BW LTE-Band 17	706.5MHz – 713.5MHz	23dBm
	10MHz BW LTE-Band 17	709.0MHz –711.0MHz	23dBm
IMEI:	004402452036837(2G&3G) ;004402452038445(4G)		

This test report applies for 850 /1900 GSM/GPRS/EDGE, WCDMA / HSDPA / HSUPA Band II/IV /V and LTE Band 4, Band 7 and Band 17. 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	250
GSM 1900	3.8 Vdc	310
GPRS 850	3.8 Vdc	255
GPRS 1900	3.8 Vdc	187
EDGE 850	3.8 Vdc	205
EDGE 1900	3.8 Vdc	180
WCDMA B2	3.8 Vdc	350
WCDMA B4	3.8 Vdc	340
WCDMA B5	3.8 Vdc	366
HSUPA B2	3.8 Vdc	365
HSUPA B4	3.8 Vdc	385
HSUPA B5	3.8 Vdc	380
HSDPA B2	3.8 Vdc	360
HSDPA B4	3.8 Vdc	345
HSDPA B5	3.8 Vdc	405

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LTE Band 4_1.4M QPSK	3.8 Vdc	1021
LTE Band 4_1.4M 16QAM	3.8 Vdc	986
LTE Band 4_3M QPSK	3.8 Vdc	1041
LTE Band 4_3M 16QAM	3.8 Vdc	987
LTE Band 4_5M QPSK	3.8 Vdc	1021
LTE Band 4_5M 16QAM	3.8 Vdc	1013
LTE Band 4_10M QPSK	3.8 Vdc	987
LTE Band 4_10M 16QAM	3.8 Vdc	1061
LTE Band 4_15M QPSK	3.8 Vdc	1031
LTE Band 4_15M 16QAM	3.8 Vdc	968
LTE Band 4_20M QPSK	3.8 Vdc	989
LTE Band 4_20M 16QAM	3.8 Vdc	1035

LTE Band 7_5M QPSK	3.8 Vdc	765
LTE Band 7_5M 16QAM	3.8 Vdc	645
LTE Band 7_10M QPSK	3.8 Vdc	745
LTE Band 7_10M 16QAM	3.8 Vdc	687
LTE Band 7_15M QPSK	3.8 Vdc	698
LTE Band 7_15M 16QAM	3.8 Vdc	708
LTE Band 7_20M QPSK	3.8 Vdc	658
LTE Band 7_20M 16QAM	3.8 Vdc	698

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LTE Band 17_5M QPSK	3.8 Vdc	507
LTE Band 17_5M 16QAM	3.8 Vdc	498
LTE Band 17_10M QPSK	3.8 Vdc	508
LTE Band 17_10M 16QAM	3.8 Vdc	513

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

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0731** 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, Wuku Industrial Zone, Taipei County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. & ANSI C63.10:2009. FCC Registration Number are: 990257.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

All equipment is calibrated externally and traceable to SI (International System of Unit).

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	05/30/2013	05/29/2014
Spectrum Analyzer	Agilent	E4440A	US41160416	03/15/2013	03/14/2014
Radio Communication Analyzer	R & S	CMU200	102189	06/17/2013	06/16/2014
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/21/2013	10/20/2014
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2013	05/05/2014
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	KR93300208	07/24/2013	07/23/2014

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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	05/30/2013	05/29/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	01/20/2014	01/19/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/22/2013	10/21/2014
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/02/2014	01/02/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/27/2013	11/26/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/31/2013	05/30/2014
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	07/19/2013	07/18/2014
Network Analyze	Anritsu	MS4644A	1216312	05/23/2013	05/22/2014
Signal Generator	Agilent	E4438C	MY45093613	07/30/2013	07/29/2014
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	102189	06/17/2013	06/16/2014
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/21/2013	10/20/2014
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	07/15/2013	07/14/2014

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2.5. Configuration of Tested System

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

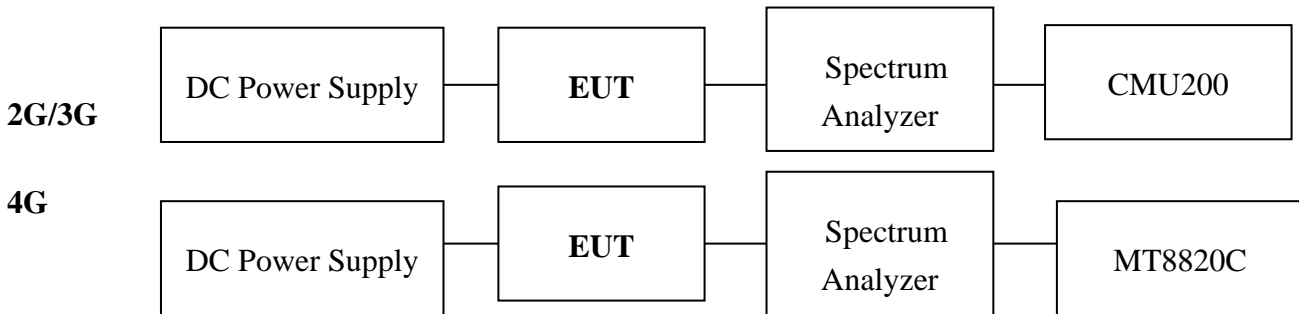


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

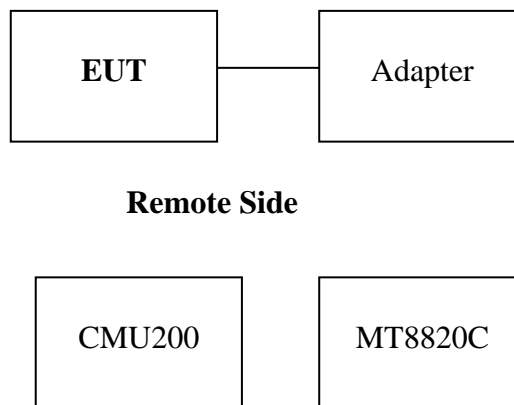


Table 2-1 Equipment Used in

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)§27.50(c)(10) §27.50(d)(2) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Voltage	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	27.51	ERP	0.564
GSM 1900 Band	29.20	EIRP	0.832
GPRS 850 Band	27.49	ERP	0.561
GPRS 1900 Band	29.49	EIRP	0.889
EDGE 850 Band	25.07	ERP	0.321
EDGE 1900 Band	26.13	EIRP	0.410
WCDMA Band II	25.34	EIRP	0.342
WCDMA Band IV	21.22	EIRP	0.132
WCDMA Band V	23.69	ERP	0.234
HSDPA Band II	25.87	EIRP	0.386
HSDPA Band IV	21.45	EIRP	0.140
HSDPA Band V	23.94	ERP	0.248
HSUPA Band II	25.22	EIRP	0.333
HSUPA Band IV	20.95	EIRP	0.124
HSUPA Band V	23.66	ERP	0.232

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	dBm		W
LTE Band 4/1.4MMz /QPSK RB 1 Offset 0	23.73	EIRP	0.236
LTE Band 4/1.4MMz /QPSK RB 1 Offset 5	23.82	EIRP	0.241
LTE Band 4/1.4MMz /16QAM RB 1 Offset 0	24.12	EIRP	0.600
LTE Band 4/1.4MMz /16QAM RB 1 Offset 5	23.90	EIRP	0.570
LTE Band 4/3MMz /QPSK RB 1 Offset 0	23.27	EIRP	0.493
LTE Band 4/3MMz /QPSK RB 1 Offset 14	22.68	EIRP	0.431
LTE Band 4/3MMz /16QAM RB 1 Offset 0	23.70	EIRP	0.545
LTE Band 4/3MMz /16QAM RB 1 Offset 14	23.70	EIRP	0.545
LTE Band 4/5MMz /QPSK RB 1 Offset 0	23.35	EIRP	0.502
LTE Band 4/5MMz /QPSK RB 1 Offset 24	23.50	EIRP	0.520
LTE Band 4/5MMz /16QAM RB 1 Offset 0	23.62	EIRP	0.533
LTE Band 4/5MMz /16QAM RB 1 Offset 24	23.73	EIRP	0.548
LTE Band 4/10MMz /QPSK RB 1 Offset 0	22.89	EIRP	0.452
LTE Band 4/10MMz /QPSK RB 1 Offset 49	22.75	EIRP	0.437
LTE Band 4/10MMz /16QAM RB 1 Offset 0	23.29	EIRP	0.497
LTE Band 4/10MMz /16QAM RB 1 Offset 49	23.67	EIRP	0.541
LTE Band 4/15MMz /QPSK RB 1 Offset 0	22.99	EIRP	0.462
LTE Band 4/15MMz /QPSK RB 1 Offset 74	23.06	EIRP	0.470
LTE Band 4/15MMz /16QAM RB 1 Offset 0	23.11	EIRP	0.475
LTE Band 4/15MMz /16QAM RB 1 Offset 74	23.23	EIRP	0.489
LTE Band 4/20MMz /QPSK RB 1 Offset 0	23.79	EIRP	0.556
LTE Band 4/20MMz /QPSK RB 1 Offset 99	23.36	EIRP	0.504
LTE Band 4/20MMz /16QAM RB 1 Offset 0	23.86	EIRP	0.565
LTE Band 4/20MMz /16QAM RB 1 Offset 99	20.40	EIRP	0.521

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	dBm		W
LTE Band 7/5MMz /QPSK RB 1 Offset 0	25.29	EIRP	0.338
LTE Band 7/5MMz /QPSK RB 1 Offset 24	26.32	EIRP	0.429
LTE Band 7/5MMz /16QAM RB 1 Offset 0	26.38	EIRP	0.435
LTE Band 7/5MMz /16QAM RB 1 Offset 24	26.93	EIRP	0.493
LTE Band 7/10MMz /QPSK RB 1 Offset 0	26.41	EIRP	0.438
LTE Band 7/10MMz /QPSK RB 1 Offset 49	26.47	EIRP	0.444
LTE Band 7/10MMz /16QAM RB 1 Offset 0	26.45	EIRP	0.442
LTE Band 7/10MMz /16QAM RB 1 Offset 49	26.50	EIRP	0.447
LTE Band 7/15MMz /QPSK RB 1 Offset 0	26.42	EIRP	0.439
LTE Band 7/15MMz /QPSK RB 1 Offset 74	25.17	EIRP	0.329
LTE Band 7/15MMz /16QAM RB 1 Offset 0	26.57	EIRP	0.454
LTE Band 7/15MMz /16QAM RB 1 Offset 74	25.21	EIRP	0.332
LTE Band 7/20MMz /QPSK RB 1 Offset 0	26.60	EIRP	0.457
LTE Band 7/20MMz /QPSK RB 1 Offset 99	25.51	EIRP	0.356
LTE Band 7/20MMz /16QAM RB 1 Offset 0	26.70	EIRP	0.468
LTE Band 7/20MMz /16QAM RB 1 Offset 99	25.76	EIRP	0.377

	dBm		W
LTE Band 17/5MMz /QPSK RB 1 Offset 0	18.81	ERP	0.076
LTE Band 17/5MMz /QPSK RB 1 Offset 24	18.07	ERP	0.064
LTE Band 17/5MMz /16QAM RB 1 Offset 0	19.46	ERP	0.088
LTE Band 17/5MMz /16QAM RB 1 Offset 24	18.63	ERP	0.073
LTE Band 17/10MMz /QPSK RB 1 Offset 0	18.06	ERP	0.064
LTE Band 17/10MMz /QPSK RB 1 Offset 49	17.28	ERP	0.053
LTE Band 17/10MMz /16QAM RB 1 Offset 0	18.82	ERP	0.076
LTE Band 17/10MMz /16QAM RB 1 Offset 49	17.97	ERP	0.063

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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 BIV:

Channel Low: UAFRCN 1312 at 1712.4MHz, Channel Mid: UAFRCN 1413 at 1732.6MHz, Channel High: UAFRCN 1513 at 1752.6MHz.

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 B4

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	1.4	19957	1710.7
	3	19965	1711.5
	5	19975	1712.5
	10	20000	1715
	15	20025	1717.5
	20	20050	1720
Middle	1.4/3/5/10 15/20	20175	1732.5
High	1.4	20393	1754.3
	3	20385	1753.5
	5	20375	1752.5
	10	20350	1750
	15	20325	1747.5
	20	20300	1745

LTE B7:

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	5	20775	2502.5
	10	20800	2505
	15	20825	2507.5
	20	20850	2510
Middle	5/10 15/20	21100	2535
High	5	21425	2567.5
	10	21400	2565
	15	21375	2562.5
	20	21350	2560

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LTE B17:

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	5	23755	706.5
	10	23780	709
Middle	5/10	23790	710
High	5	23825	713.5
	10	23800	711

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 4, Band 7 and Band 17 with power adaptor. The worst-case of E1 position for GSM 850/GPRS1900,WCDMA/HSPA Band II/IV/V and LTE Band 4/17, H position for LTE Band 7 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, HSPA 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 4/7 & 17, respectively, It's revealed to generate the highest emission while 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.

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

FCC 24.232(c) Peak Power Measurement limited to 2W

FCC 24.232(c) Equipment must employ means to limit the power to the minimum necessary for successful communication.

Part 27, 50(d)(4) Portable stations are limited to 1W

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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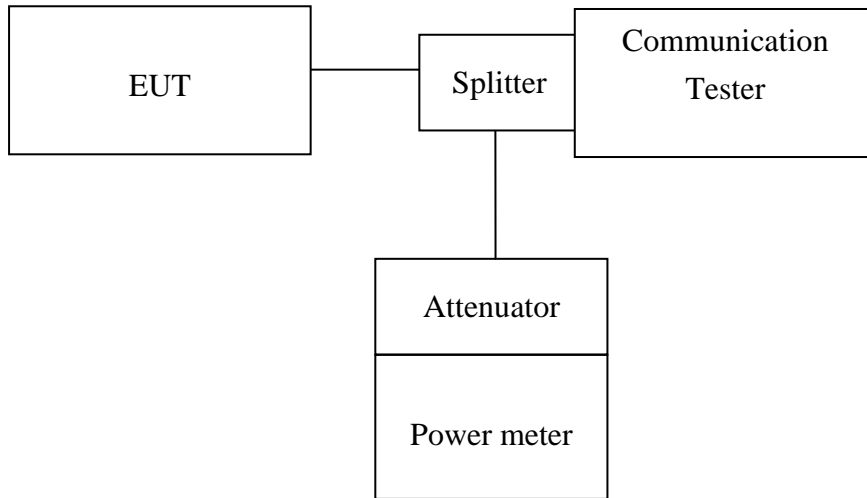
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6.2. Test Set-up:



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 27.5(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	33.50	33.20
	836.6	190	33.60	33.30
	848.8	251	33.70	33.40

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 1900	1850.2	512	30.70	30.50
	1880.0	661	30.30	30.10
	1909.8	810	30.00	29.80

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	33.50	33.20	29.50	29.40
	836.6	190	33.60	33.30	29.50	29.30
	848.8	251	33.70	33.40	29.40	29.20

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	28.00	27.80	27.40	27.20
	836.6	190	27.90	27.80	27.30	27.20
	848.8	251	27.80	27.70	27.50	27.40

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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	30.70	30.50	28.90	28.80
	1880.0	661	30.30	30.20	29.00	28.80
	1909.8	810	30.00	29.90	28.80	28.60

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	27.80	27.60	27.20	27.00
	1880.0	661	27.70	27.50	27.20	27.00
	1909.8	810	27.80	27.70	27.20	27.10

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	28.30	25.10	27.30	24.10
	836.6	190	28.30	25.10	27.30	24.10
	848.8	251	28.30	25.10	27.30	24.10

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	27.20	24.00	26.60	23.40
	836.6	190	27.20	24.00	26.50	23.30
	848.8	251	27.20	24.00	26.50	23.30

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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	27.80	24.60	27.70	24.60
	1880.0	661	27.80	24.60	27.60	24.50
	1909.8	810	27.80	24.70	27.60	24.50

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	27.70	24.50	26.70	23.50
	1880.0	661	27.60	24.50	26.60	23.50
	1909.8	810	27.70	24.50	26.60	23.50

Cable loss offset Low Band: 0.4dB

Cable loss offset High Band: 0.7dB

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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	27.28	23.63
	1880.0	9400	27.18	23.43
	1907.6	9538	27.18	23.47

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band IV	1712.4	1312	23.78	21.54
	1732.6	1412	25.46	21.69
	1752.6	1513	24.06	21.76

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	27.00	23.95
	836.6	4183	27.51	23.95
	846.6	4233	27.03	23.79

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band II	1852.4	9262	27.58	22.42
	1880.0	9400	26.91	22.42
	1907.6	9538	27.19	22.36

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band IV	1712.4	1312	24.41	20.76
	1732.6	1412	24.85	20.50
	1752.6	1513	20.61	23.67

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band V	826.4	4132	26.63	22.84
	836.6	4183	26.87	22.68
	846.6	4233	27.11	22.55

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band II	1852.4	9262	27.96	21.76
	1880.0	9400	26.51	21.75
	1907.6	9538	26.30	21.79

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band IV	1712.4	1312	23.26	19.73
	1732.6	1412	24.40	19.85
	1752.6	1513	23.31	19.92

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band V	826.4	4132	26.58	22.12
	836.6	4183	26.88	22.23
	846.6	4233	26.23	22.05

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

Cable loss offset Low Band: 0.4dB

Cable loss offset High Band: 0.7dB

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6.5.1.3: MPR Table

LTE Band 4_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	19957	1710.7	1	0	22.16
				1	5	22.17
				3	2	21.98
				6	0	21.35
		20175	1732.5	1	0	22.45
				1	5	22.30
				3	2	21.94
				6	0	21.18
		20393	1754.3	1	0	22.29
				1	5	22.26
				3	3	21.92
				6	0	21.25
1.4	16 QAM	19957	1710.7	1	0	21.24
				1	5	21.28
				3	2	20.97
				6	0	20.21
		20175	1732.5	1	0	21.11
				1	5	21.11
				3	3	20.03
				6	0	20.02
		20393	1754.3	1	0	21.16
				1	5	21.09
				3	2	20.13
				6	0	20.13

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LTE Band 4_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
3	QPSK	19965	1711.5	1	0	22.29
				1	14	22.06
				8	4	21.07
				15	0	21.09
		20175	1732.5	1	0	22.05
				1	14	22.11
				8	4	21.08
				15	0	21.08
		20385	1753.5	1	0	22.12
				1	14	22.11
				8	4	21.14
				15	0	21.18
3	16 QAM	19965	1711.5	1	0	21.02
				1	14	20.92
				8	4	20.04
				15	0	20.04
		20175	1732.5	1	0	21.01
				1	14	21.06
				8	4	20.08
				15	0	20.07
		20385	1753.5	1	0	21.06
				1	14	21.02
				8	4	20.13
				15	0	20.10

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LTE Band 4_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	19957	1712.5	1	0	22.09
				1	24	22.08
				12	6	21.01
				25	0	21.05
		20175	1732.5	1	0	22.06
				1	24	22.06
				12	6	21.10
				25	0	21.07
		20375	1752.5	1	0	22.07
				1	24	22.08
				12	6	21.14
				25	0	21.17
5	16 QAM	19957	1712.5	1	0	21.08
				1	24	20.94
				12	6	20.01
				25	0	20.09
		20175	1732.5	1	0	21.02
				1	24	20.99
				12	6	20.08
				25	0	20.07
		20375	1752.5	1	0	21.06
				1	24	21.07
				12	6	20.12
				25	0	20.15

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LTE Band 4_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)	
10	QPSK	20000	1715.0	1	0	22.10	
				1	49	22.06	
				25	12	21.09	
				50	0	21.10	
		20175	1732.5	1732.5	1	0	22.09
					1	49	22.11
					25	12	21.11
					50	0	21.08
		20350	1750.0	1750.0	1	0	22.17
					1	49	22.11
					25	12	21.10
					50	0	21.09
10	16 QAM	20000	1715	1	0	21.05	
				1	49	20.99	
				25	12	20.07	
				50	0	20.08	
		20175	1732.5	1732.5	1	0	21.06
					1	49	21.07
					25	12	20.08
					50	0	20.05
		20350	1750.0	1750.0	1	0	21.07
					1	49	21.06
					25	12	20.11
					50	0	20.04

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LTE Band 4_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	20025	1717.5	1	0	22.15
				1	74	22.15
				36	19	21.09
				75	0	21.07
		20175	1732.5	1	0	22.22
				1	74	22.11
				36	19	21.11
				75	0	21.13
		20325	1747.5	1	0	22.22
				1	74	22.14
				36	19	21.17
				75	0	21.24
15	16 QAM	20025	1717.5	1	0	21.06
				1	74	21.07
				36	19	20.04
				75	0	20.09
		20175	1732.5	1	0	21.17
				1	74	21.07
				36	19	20.04
				75	0	20.05
		20325	1747.5	1	0	21.17
				1	74	21.09
				36	19	20.10
				75	0	20.19

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LTE Band 4_20MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
20	QPSK	20050	1720.0	1	0	22.17
				1	99	22.05
				50	25	21.09
				100	0	21.14
		20175	1732.5	1	0	22.26
				1	99	22.16
				50	25	21.13
				100	0	21.13
		20300	1745.0	1	0	22.24
				1	99	22.15
				50	25	21.19
				100	0	21.20
20	16 QAM	20050	1720	1	0	21.16
				1	99	20.97
				50	25	20.09
				100	0	20.05
		20175	1732.5	1	0	21.20
				1	99	21.08
				50	25	20.05
				100	0	20.07
		20300	1745	1	0	21.17
				1	99	21.10
				50	25	20.13
				100	0	20.15

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LTE Band 7_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)		
5	QPSK	20775	2502.5	1	0	22.64		
				1	24	22.64		
				12	6	21.71		
				25	0	21.90		
		21100	2535.0	21100	2535.0	1	0	22.53
						1	24	22.63
						12	6	21.47
						25	0	21.67
		21425	2567.5	21425	2567.5	1	0	22.83
						1	24	22.92
						12	6	21.78
						25	0	21.97
5	16 QAM	20775	2502.5	1	0	21.73		
				1	24	21.91		
				12	6	20.67		
				25	0	20.74		
		21100	2535.0	21100	2535.0	1	0	21.75
						1	24	21.67
						12	6	20.64
						25	0	20.51
		21425	2567.5	21425	2567.5	1	0	21.90
						1	24	21.99
						12	6	20.97
						25	0	21.12

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LTE Band 7_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)		
10	QPSK	20800	2505.0	1	0	22.63		
				1	49	22.71		
				25	12	21.82		
				50	0	21.80		
		21100	2535.0	21100	2535.0	1	0	22.57
						1	49	22.60
						25	12	21.54
						50	0	21.44
		21400	2565.0	21400	2565.0	1	0	22.80
						1	49	22.81
						25	12	21.89
						50	0	21.95
10	16 QAM	20800	2505.0	1	0	21.55		
				1	49	21.93		
				25	12	20.66		
				50	0	20.70		
		21100	2535.0	21100	2535.0	1	0	21.52
						1	49	21.45
						25	12	20.57
						50	0	20.59
		21400	2565.0	21400	2565.0	1	0	21.80
						1	49	21.73
						25	12	20.96
						50	0	20.95

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LTE Band 7_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	20825	2507.5	1	0	22.67
				1	74	22.58
				36	19	21.96
				75	0	21.83
		21100	2535.0	1	0	22.65
				1	74	22.64
				36	19	21.62
				75	0	21.55
		21375	2562.5	1	0	22.78
				1	74	22.89
				36	19	21.95
				75	0	21.90
15	16 QAM	20825	2507.5	1	0	21.91
				1	74	21.89
				36	19	20.69
				75	0	20.74
		21100	2535.0	1	0	21.75
				1	74	21.76
				36	19	20.62
				75	0	20.63
		21375	2562.5	1	0	21.91
				1	74	21.99
				36	19	20.91
				75	0	20.91

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LTE Band 7_20MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)		
20	QPSK	20850	2510.0	1	0	22.88		
				1	99	22.73		
				50	25	21.85		
				100	0	21.64		
		21100	2535.0			1	0	22.70
						1	99	22.80
						50	25	21.63
						100	0	21.59
		21350	2560.0			1	0	22.76
						1	99	22.97
						50	25	22.00
						100	0	21.90
20	16 QAM	20850	2510.0	1	0	21.46		
				1	99	21.42		
				50	25	20.75		
				100	0	20.68		
		21100	2535.0			1	0	21.52
						1	99	21.50
						50	25	20.69
						100	0	20.68
		21350	2560.0			1	0	21.55
						1	99	21.75
						50	25	20.81
						100	0	20.93

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LTE Band 17_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)		
5	QPSK	23755	706.5	1	0	24.62		
				1	24	24.48		
				12	6	23.58		
				25	0	23.73		
		23790	710.0			1	0	24.55
						1	24	24.69
						12	6	23.62
						25	0	23.67
		23825	713.5			1	0	24.57
						1	24	24.53
						12	6	23.58
						25	0	23.67
5	16 QAM	23755	706.5	1	0	23.95		
				1	24	23.76		
				12	6	22.60		
				25	0	22.57		
		23790	710.0			1	0	23.67
						1	24	23.84
						12	6	22.73
						25	0	22.66
		23825	713.5			1	0	23.69
						1	24	23.78
						12	6	22.63
						25	0	22.66

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LTE Band 17_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	23780	709.0	1	0	24.74
				1	49	24.82
				25	12	23.83
				50	0	23.86
		23790	710.0	1	0	24.92
				1	49	24.74
				25	12	23.87
				50	0	23.78
		23800	711.0	1	0	24.76
				1	49	24.67
				25	12	23.74
				50	0	23.71
10	16 QAM	23780	709.0	1	0	23.86
				1	49	23.96
				25	12	22.74
				50	0	22.70
		23790	710.0	1	0	23.96
				1	49	23.88
				25	12	22.69
				50	0	22.74
		23800	711.0	1	0	23.94
				1	49	23.98
				25	12	22.70
				50	0	22.76

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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	23.85	23.68	23.66	20.3dBm – 25.7dBm	Pass
	2	23.56	23.32	23.34	20.3dBm – 25.7dBm	Pass
	3	23.39	23.20	23.17	19.8dBm – 25.7dBm	Pass
	4	23.44	23.24	23.23	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1412	1513		
HSDPA (B4)	1	21.76	21.94	21.95	20.3dBm – 25.7dBm	Pass
	2	21.47	21.58	21.63	20.3dBm – 25.7dBm	Pass
	3	21.30	21.46	21.46	19.8dBm – 25.7dBm	Pass
	4	21.35	21.50	21.52	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	24.17	24.20	23.98	20.3dBm – 25.7dBm	Pass
	2	23.88	23.84	23.66	20.3dBm – 25.7dBm	Pass
	3	23.71	23.72	23.49	19.8dBm – 25.7dBm	Pass
	4	23.76	23.76	23.55	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 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	23.59	23.36	23.38	18.8dBm – 25.7dBm	Pass
	2	21.65	21.44	21.42	16.8dBm – 25.7dBm	Pass
	3	22.56	22.42	22.41	17.8dBm – 25.7dBm	Pass
	4	21.70	21.50	21.50	16.8dBm – 25.7dBm	Pass
	5	23.45	23.19	23.27	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1412	1513		
HSUPA(B4)	1	21.50	21.62	21.67	18.8dBm – 25.7dBm	Pass
	2	19.56	19.70	19.71	16.8dBm – 25.7dBm	Pass
	3	20.47	20.68	20.70	17.8dBm – 25.7dBm	Pass
	4	19.61	19.76	19.79	16.8dBm – 25.7dBm	Pass
	5	21.36	21.45	21.56	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	23.91	23.88	23.70	18.8dBm – 25.7dBm	Pass
	2	21.97	21.96	21.74	16.8dBm – 25.7dBm	Pass
	3	22.88	22.94	22.73	17.8dBm – 25.7dBm	Pass
	4	22.02	22.02	21.82	16.8dBm – 25.7dBm	Pass
	5	23.77	23.71	23.59	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)	29.5	28	27.6	26	22	19.8	17.8	15.9	14

PCL	9	10	11	12	13	14	15
Output power (dBm)	11.7	9.7	7.8	5.9	3.7	1.7	0.2

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.

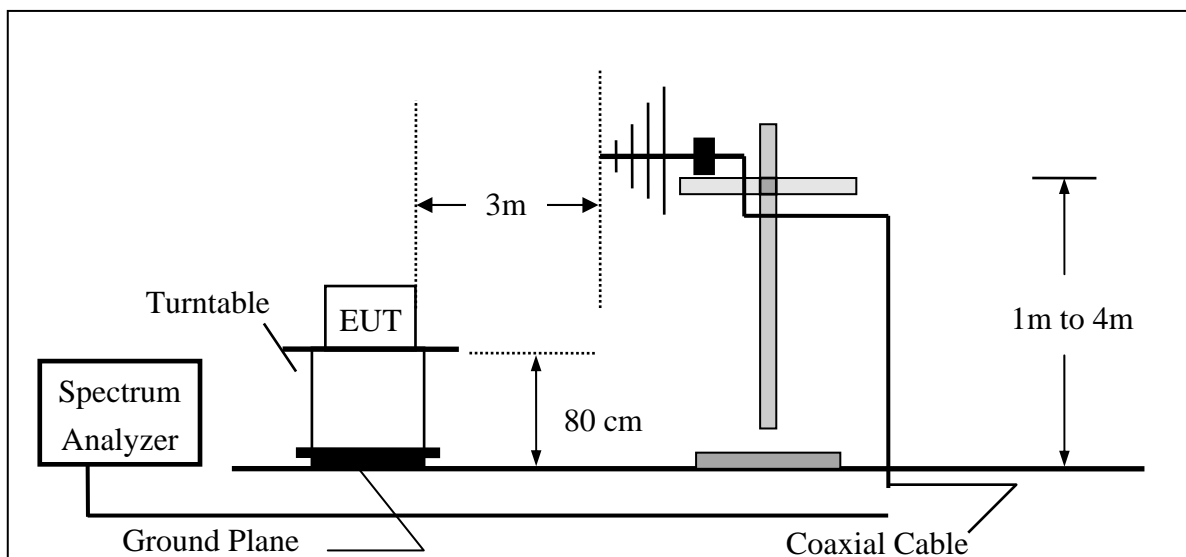
FCC 27.50(d)(2) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3W ERP

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

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

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

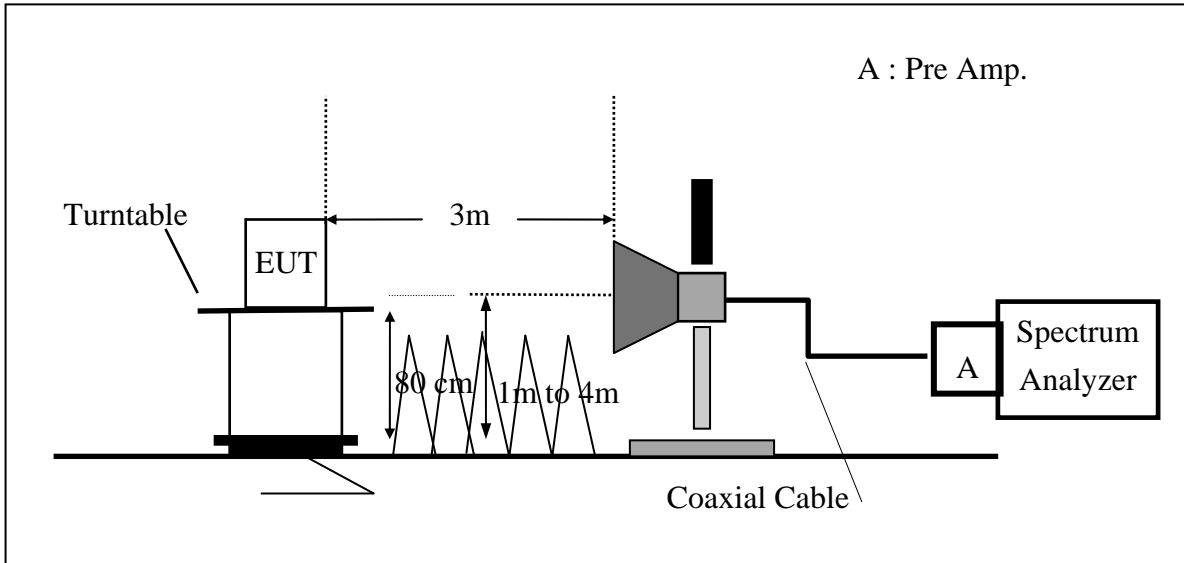


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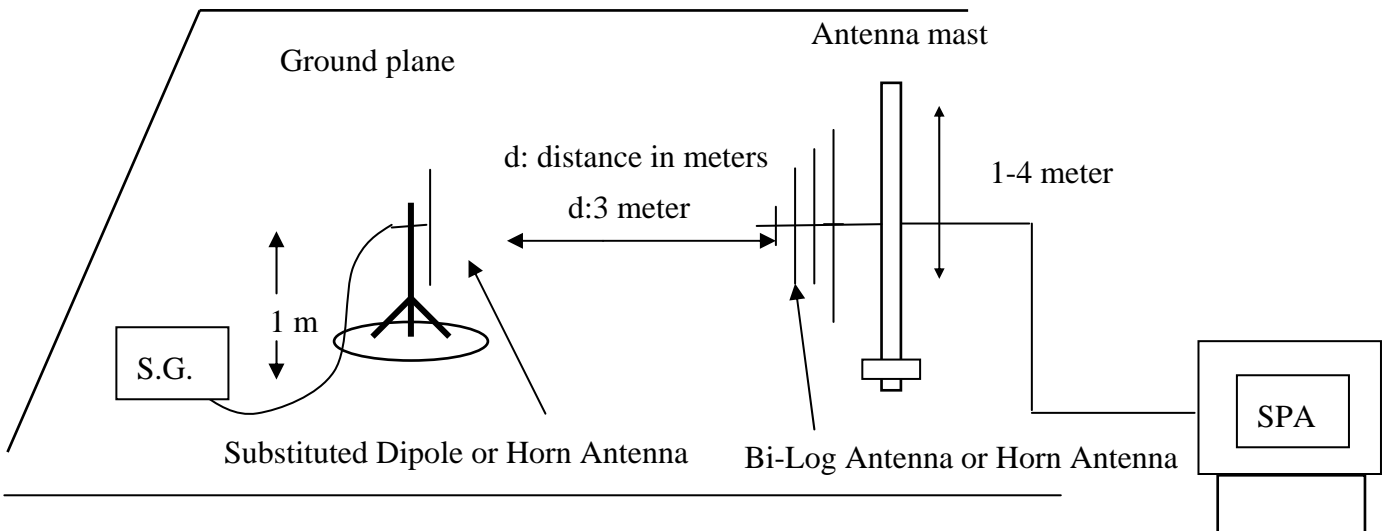
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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 698 –746MHz 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:

ERP in frequency band 824.2 –848.80MHz 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 1710-1755MHz and 1850.2 –1909.8MHz 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:

EIRP in frequency band 2510 – 2560MHz 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:

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

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

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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 = 601points, 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	24.92	3.91	-3.03	25.79	38.45
			H	26.54	3.91	-3.03	27.41	38.45
	836.6	190	V	25.43	3.89	-3.07	26.25	38.45
			H	26.69	3.89	-3.07	27.51	38.45
	848.8	251	V	25.17	3.87	-3.11	25.94	38.45
			H	26.37	3.87	-3.11	27.14	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	24.51	3.91	-3.03	25.39	38.45
			H	26.54	3.91	-3.03	27.42	38.45
	836.6	190	V	25.17	3.89	-3.07	25.99	38.45
			H	26.67	3.89	-3.07	27.49	38.45
	848.8	251	V	24.92	3.87	-3.11	25.69	38.45
			H	26.38	3.87	-3.11	27.15	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	19.42	3.91	-3.03	20.30	38.45
			H	23.51	3.91	-3.03	24.39	38.45
	836.6	190	V	21.05	3.89	-3.07	21.88	38.45
			H	24.25	3.89	-3.07	25.07	38.45
	848.8	251	V	21.59	3.87	-3.11	22.36	38.45
			H	24.23	3.87	-3.11	24.99	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	27.79	5.08	-4.67	28.20	33.01
			H	19.44	5.08	-4.67	19.85	33.01
	1880.0	661	V	28.91	5.00	-4.70	29.20	33.01
			H	20.42	5.00	-4.70	20.72	33.01
	1909.8	810	V	26.70	4.92	-4.74	26.89	33.01
			H	19.36	4.92	-4.74	19.54	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	27.81	5.08	-4.67	28.21	33.01
			H	19.70	5.08	-4.67	20.10	33.01
	1880.0	661	V	29.19	5.00	-4.70	29.49	33.01
			H	20.48	5.00	-4.70	20.77	33.01
	1909.8	810	V	27.25	4.92	-4.74	27.44	33.01
			H	19.90	4.92	-4.74	20.09	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	25.40	5.08	-4.67	25.81	33.01
			H	16.91	5.08	-4.67	17.32	33.01
	1880.0	661	V	25.84	5.00	-4.70	26.13	33.01
			H	17.08	5.00	-4.70	17.38	33.01
	1909.8	810	V	23.22	4.92	-4.74	23.41	33.01
			H	16.45	4.92	-4.74	16.63	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	24.32	5.07	-4.67	24.72	33.01
			H	15.25	5.07	-4.67	15.65	33.01
	1880.0	9400	V	24.69	5.00	-4.70	24.99	33.01
			H	14.81	5.00	-4.70	15.10	33.01
	1907.6	9538	V	25.15	4.93	-4.74	25.34	33.01
			H	14.67	4.93	-4.74	14.86	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	23.91	5.07	-4.67	24.31	33.01
			H	15.11	5.07	-4.67	15.52	33.01
	1880.0	9400	V	25.42	5.00	-4.70	25.72	33.01
			H	16.46	5.00	-4.71	16.75	33.01
	1907.6	9538	V	25.68	4.93	-4.74	25.87	33.01
			H	15.51	4.93	-4.74	15.71	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	23.45	5.07	-4.67	23.85	33.01
			H	14.80	5.07	-4.67	15.20	33.01
	1880.0	9400	V	24.92	5.00	-4.70	25.22	33.01
			H	15.16	5.00	-4.70	15.46	33.01
	1907.6	9538	V	24.56	4.93	-4.74	24.75	33.01
			H	14.91	4.93	-4.74	15.10	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	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B4	1712.4	1312	V	19.48	5.46	-4.50	20.44	33.01
			H	15.77	5.46	-4.50	16.73	33.01
	1732.6	1413	V	19.13	5.40	-4.53	20.00	33.01
			H	16.09	5.40	-4.53	16.96	33.01
	1752.6	1513	V	20.43	5.34	-4.55	21.22	33.01
			H	13.86	5.34	-4.55	14.65	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 B4	1712.4	1312	V	19.42	5.46	-4.50	20.38	33.01
			H	15.93	5.46	-4.50	16.89	33.01
	1732.6	1413	V	19.50	5.40	-4.53	20.37	33.01
			H	16.18	5.40	-4.52	17.06	33.01
	1752.6	1513	V	20.66	5.34	-4.55	21.45	33.01
			H	14.01	5.34	-4.55	14.80	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 B4	1712.4	1312	V	19.56	5.45	-4.50	20.51	33.01
			H	15.54	5.46	-4.50	16.50	33.01
	1732.6	1413	V	19.17	5.40	-4.53	20.04	33.01
			H	16.00	5.40	-4.53	16.87	33.01
	1752.6	1513	V	20.16	5.34	-4.55	20.95	33.01
			H	14.01	5.34	-4.55	14.80	33.01

Remark :

- (1) The RBW,VBW of SPA for measurement RBW= 1MHz , VBW= 3MHz

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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	19.11	3.90	-3.03	19.98	38.45
			H	22.49	3.90	-3.04	23.36	38.45
	836.6	4183	V	20.17	3.89	-3.07	20.99	38.45
			H	22.87	3.89	-3.07	23.69	38.45
	846.6	4233	V	19.52	3.88	-3.10	20.30	38.45
			H	21.96	3.88	-3.10	22.74	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	18.56	3.90	-3.03	19.43	38.45
			H	22.96	3.90	-3.04	23.82	38.45
	836.6	4183	V	20.30	3.89	-3.07	21.12	38.45
			H	23.11	3.89	-3.07	23.94	38.45
	846.6	4233	V	19.25	3.87	-3.10	20.03	38.45
			H	22.23	3.87	-3.10	23.01	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	19.01	3.90	-3.03	19.88	38.45
			H	21.83	3.90	-3.03	22.70	38.45
	836.6	4183	V	19.63	3.89	-3.07	20.45	38.45
			H	22.84	3.89	-3.07	23.66	38.45
	846.6	4233	V	19.23	3.88	-3.09	20.01	38.45
			H	22.52	3.87	-3.10	23.30	38.45

Remark :

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

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BAND 4 / 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 4 BW: 1.4M/ QPSK RB: 1,0	1710.7	19957	V	22.40	5.46	-4.50	23.36	30.00
			H	18.53	5.46	-4.50	19.49	30.00
	1732.5	20175	V	22.85	5.40	-4.52	23.73	30.00
			H	18.53	5.40	-4.52	19.41	30.00
	1754.3	20393	V	21.05	5.34	-4.55	21.84	30.00
			H	16.27	5.34	-4.55	17.06	30.00

BAND 4 / 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 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	22.41	5.46	-4.50	23.37	30.00
			H	18.62	5.46	-4.50	19.58	30.00
	1732.5	20175	V	22.95	5.40	-4.53	23.82	30.00
			H	18.64	5.40	-4.53	19.51	30.00
	1754.3	20393	V	19.23	5.34	-4.55	20.02	30.00
			H	15.86	5.34	-4.55	16.65	30.00

Remark :

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

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BAND 4 / 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 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	22.42	5.46	-4.50	23.38	30.00
			H	18.58	5.46	-4.50	19.54	30.00
	1732.5	20175	V	23.24	5.40	-4.52	24.12	30.00
			H	18.69	5.40	-4.52	19.57	30.00
	1754.3	20393	V	20.83	5.34	-4.55	21.62	30.00
			H	16.70	5.34	-4.55	17.49	30.00

BAND 4 / 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 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	22.46	5.46	-4.50	23.42	30.00
			H	18.67	5.46	-4.50	19.63	30.00
	1732.5	20175	V	23.03	5.40	-4.53	23.90	30.00
			H	18.73	5.40	-4.53	19.60	30.00
	1754.3	20393	V	20.56	5.34	-4.55	21.35	30.00
			H	16.59	5.34	-4.55	17.38	30.00

Remark :

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

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BAND 4 / 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 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	19.92	5.46	-4.50	20.88	30.00
			H	18.64	5.46	-4.50	19.60	30.00
	1732.5	20175	V	22.39	5.40	-4.52	23.27	30.00
			H	18.37	5.40	-4.52	19.25	30.00
	1753.5	20385	V	21.66	5.35	-4.55	22.46	30.00
			H	16.44	5.34	-4.55	17.23	30.00

BAND 4 / 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 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	20.71	5.46	-4.50	21.67	30.00
			H	18.84	5.46	-4.50	19.80	30.00
	1732.5	20175	V	21.81	5.40	-4.53	22.68	30.00
			H	18.74	5.40	-4.53	19.61	30.00
	1753.5	20385	V	21.40	5.34	-4.55	22.19	30.00
			H	15.66	5.34	-4.55	16.45	30.00

Remark :

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

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BAND 4 / 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 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	20.95	5.46	-4.50	21.91	30.00
			H	18.70	5.46	-4.50	19.66	30.00
	1732.5	20175	V	22.82	5.40	-4.52	23.70	30.00
			H	18.66	5.40	-4.52	19.54	30.00
	1753.5	20385	V	21.80	5.35	-4.55	22.60	30.00
			H	16.49	5.35	-4.55	17.29	30.00

BAND 4 / 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 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	20.88	5.46	-4.5	21.84	30.00
			H	18.92	5.46	-4.5	19.88	30.00
	1732.5	20175	V	22.83	5.40	-4.53	23.70	30.00
			H	18.80	5.40	-4.53	19.67	30.00
	1753.5	20385	V	21.55	5.34	-4.55	22.34	30.00
			H	16.41	5.34	-4.55	17.20	30.00

Remark :

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

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BAND 4 / 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 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	21.74	5.46	-4.50	22.70	30.00
			H	18.76	5.46	-4.50	19.72	30.00
	1732.5	20175	V	22.46	5.41	-4.52	23.35	30.00
			H	18.19	5.41	-4.52	19.08	30.00
	1752.5	20375	V	21.44	5.35	-4.55	22.24	30.00
			H	16.27	5.35	-4.55	17.07	30.00

BAND 4 / 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 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	21.50	5.45	-4.50	22.45	30.00
			H	18.60	5.45	-4.50	19.55	30.00
	1732.5	20175	V	22.64	5.39	-4.53	23.50	30.00
			H	18.77	5.39	-4.53	19.63	30.00
	1752.5	20375	V	20.93	5.34	-4.55	21.72	30.00
			H	16.11	5.34	-4.55	16.90	30.00

Remark :

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

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BAND 4 / 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 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	21.42	5.46	-4.50	22.38	30.00
			H	18.80	5.46	-4.50	19.76	30.00
	1732.5	20175	V	22.73	5.41	-4.52	23.62	30.00
			H	18.45	5.41	-4.52	19.34	30.00
	1752.5	20375	V	21.55	5.35	-4.55	22.35	30.00
			H	16.34	5.35	-4.55	17.14	30.00

BAND 4 / 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 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	21.82	5.45	-4.50	22.77	30.00
			H	18.66	5.45	-4.50	19.61	30.00
	1732.5	20175	V	22.87	5.39	-4.53	23.73	30.00
			H	18.85	5.39	-4.53	19.71	30.00
	1752.5	20375	V	21.00	5.34	-4.55	21.79	30.00
			H	16.56	5.34	-4.55	17.35	30.00

Remark :

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

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BAND 4 / 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 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	21.07	5.46	-4.50	22.03	30.00
			H	18.47	5.46	-4.50	19.43	30.00
	1732.5	20175	V	22.00	5.41	-4.52	22.89	30.00
			H	16.74	5.41	-4.52	17.63	30.00
	1750.0	20350	V	21.14	5.36	-4.54	21.96	30.00
			H	16.94	5.36	-4.54	17.76	30.00

BAND 4 / 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 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	21.02	5.44	-4.51	21.95	30.00
			H	16.91	5.44	-4.51	17.84	30.00
	1732.5	20175	V	21.89	5.39	-4.53	22.75	30.00
			H	17.28	5.39	-4.53	18.14	30.00
	1750.0	20350	V	21.00	5.34	-4.55	21.79	30.00
			H	15.35	5.34	-4.55	16.14	30.00

Remark :

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

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BAND 4 / 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 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	21.03	5.46	-4.5	21.99	30.00
			H	18.61	5.46	-4.5	19.57	30.00
	1732.5	20175	V	22.4	5.41	-4.52	23.29	30.00
			H	16.88	5.41	-4.52	17.77	30.00
	1750.0	20350	V	22.09	5.36	-4.54	22.91	30.00
			H	17.05	5.36	-4.54	17.87	30.00

BAND 4 / 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 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	21.31	5.44	-4.51	22.24	30.00
			H	17.04	5.44	-4.51	17.97	30.00
	1732.5	20175	V	22.81	5.39	-4.53	23.67	30.00
			H	17.46	5.39	-4.53	18.32	30.00
	1750.0	20350	V	21.08	5.34	-4.55	21.87	30.00
			H	15.35	5.34	-4.55	16.14	30.00

Remark :

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

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BAND 4 / 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 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	21.97	5.46	-4.50	22.93	30.00
			H	18.75	5.46	-4.50	19.71	30.00
	1732.5	20175	V	21.84	5.42	-4.52	22.74	30.00
			H	17.33	5.42	-4.52	18.23	30.00
	1747.5	20325	V	22.15	5.38	-4.54	22.99	30.00
			H	17.11	5.38	-4.54	17.95	30.00

BAND 4 / 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 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	21.72	5.42	-4.51	22.63	30.00
			H	16.91	5.42	-4.51	17.82	30.00
	1732.5	20175	V	22.21	5.38	-4.53	23.06	30.00
			H	17.26	5.38	-4.53	18.11	30.00
	1747.5	20325	V	20.30	5.34	-4.55	21.09	30.00
			H	16.02	5.34	-4.55	16.81	30.00

Remark :

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

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BAND 4 / 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 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	22.13	5.46	-4.50	23.09	30.00
			H	18.72	5.46	-4.50	19.68	30.00
	1732.5	20175	V	21.98	5.42	-4.52	22.88	30.00
			H	17.18	5.42	-4.52	18.08	30.00
	1747.5	20325	V	22.27	5.38	-4.54	23.11	30.00
			H	17.15	5.38	-4.54	17.99	30.00

BAND 4 / 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 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	21.87	5.42	-4.51	22.78	30.00
			H	17.06	5.42	-4.51	17.97	30.00
	1732.5	20175	V	22.38	5.38	-4.53	23.23	30.00
			H	17.43	5.38	-4.53	18.28	30.00
	1747.5	20325	V	20.92	5.34	-4.55	21.71	30.00
			H	16.66	5.34	-4.55	17.45	30.00

Remark :

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

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BAND 4 / 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 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	22.00	5.46	-4.50	22.96	30.00
			H	18.07	5.46	-4.50	19.03	30.00
	1732.5	20175	V	21.74	5.43	-4.51	22.66	30.00
			H	17.72	5.42	-4.51	18.63	30.00
	1745.0	20300	V	22.93	5.39	-4.53	23.79	30.00
			H	18.47	5.39	-4.53	19.33	30.00

BAND 4 / 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 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	22.42	5.41	-4.52	23.31	30.00
			H	18.26	5.41	-4.52	19.15	30.00
	1732.5	20175	V	22.53	5.37	-4.54	23.36	30.00
			H	18.21	5.38	-4.54	19.05	30.00
	1745.0	20300	V	21.81	5.34	-4.55	22.60	30.00
			H	16.19	5.34	-4.55	16.98	30.00

Remark :

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

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BAND 4 / 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 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	22.06	5.46	-4.50	23.02	30.00
			H	18.20	5.46	-4.50	19.16	30.00
	1732.5	20175	V	21.97	5.43	-4.51	22.89	30.00
			H	17.89	5.43	-4.51	18.81	30.00
	1745.0	20300	V	23.00	5.39	-4.53	23.86	30.00
			H	18.62	5.39	-4.53	19.48	30.00

BAND 4 / 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 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	19.51	5.41	-4.52	20.40	30.00
			H	15.89	5.41	-4.52	16.78	30.00
	1732.5	20175	V	19.27	5.38	-4.54	20.11	30.00
			H	15.83	5.38	-4.54	16.67	30.00
	1745.0	20300	V	19.22	5.34	-4.55	20.01	30.00
			H	14.23	5.34	-4.55	15.02	30.00

Remark :

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

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BAND 7 / 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 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	19.95	5.80	-5.48	20.27	33.01
			H	8.15	5.80	-5.48	24.94	33.01
	2535.0	21100	V	18.80	5.86	-5.52	19.14	33.01
			H	24.95	5.86	-5.52	25.29	33.01
	2567.5	21425	V	18.16	5.93	-5.57	18.52	33.01
			H	22.49	5.93	-5.57	22.85	33.01

BAND 7 / 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 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	21.18	5.81	-5.49	21.50	33.01
			H	26.00	5.81	-5.49	26.32	33.01
	2535.0	21100	V	18.12	5.87	-5.53	18.47	33.01
			H	24.40	5.87	-5.53	24.74	33.01
	2567.5	21425	V	16.08	5.93	-5.57	16.44	33.01
			H	20.49	5.93	-5.57	20.85	33.01

Remark :

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

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BAND 7 / 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 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	20.03	5.80	-5.48	20.35	33.01
			H	26.06	5.80	-5.48	26.38	33.01
	2535.0	21100	V	18.94	5.86	-5.52	19.28	33.01
			H	24.98	5.86	-5.52	25.32	33.01
	2567.5	21425	V	18.27	5.93	-5.57	18.63	33.01
			H	22.73	5.93	-5.57	23.09	33.01

BAND 7 / 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 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	21.09	5.81	-5.49	21.42	33.01
			H	26.61	5.81	-5.49	26.93	33.01
	2535.0	21100	V	18.26	5.87	-5.53	18.60	33.01
			H	24.39	5.87	-5.53	24.74	33.01
	2567.5	21425	V	16.32	5.93	-5.57	16.68	33.01
			H	20.82	5.93	-5.57	21.18	33.01

Remark :

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

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BAND 7 / 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 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	19.65	5.80	-5.48	19.97	33.01
			H	26.09	5.80	-5.48	26.41	33.01
	2535.0	21100	V	18.75	5.86	-5.52	19.09	33.01
			H	25.48	5.86	-5.52	25.81	33.01
	2565.0	21400	V	22.91	5.92	-5.56	23.26	33.01
			H	17.47	5.92	-5.56	17.82	33.01

BAND 7 / 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 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	17.97	5.82	-5.49	18.30	33.01
			H	26.14	5.82	-5.49	26.47	33.01
	2535.0	21100	V	17.71	5.88	-5.53	18.06	33.01
			H	23.53	5.88	-5.53	23.88	33.01
	2565.0	21400	V	15.92	5.94	-5.57	16.29	33.01
			H	20.80	5.93	-5.57	21.16	33.01

Remark :

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

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BAND 7 / 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 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	19.44	5.80	-5.48	19.76	33.01
			H	26.13	5.80	-5.48	26.45	33.01
	2535.0	21100	V	18.85	5.86	-5.52	19.19	33.01
			H	25.54	5.86	-5.52	25.88	33.01
	2565.0	21400	V	17.42	5.92	-5.56	17.78	33.01
			H	22.95	5.92	-5.56	23.31	33.01

BAND 7 / 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 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	18.10	5.82	-5.49	18.42	33.01
			H	26.17	5.82	-5.49	26.50	33.01
	2535.0	21100	V	17.88	5.88	-5.53	18.22	33.01
			H	23.65	5.88	-5.53	23.99	33.01
	2565.0	21400	V	15.42	5.93	-5.57	15.79	33.01
			H	21.11	5.93	-5.57	21.47	33.01

Remark :

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

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BAND 7 / 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 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	20.11	5.80	-5.48	20.43	33.01
			H	26.10	5.80	-5.48	26.42	33.01
	2535.0	21100	V	19.15	5.85	-5.52	19.48	33.01
			H	25.83	5.85	-5.52	26.17	33.01
	2562.5	21375	V	17.62	5.91	-5.55	17.97	33.01
			H	23.42	5.91	-5.55	23.77	33.01

BAND 7 / 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 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	16.47	5.83	-5.50	16.80	33.01
			H	24.84	5.83	-5.50	25.17	33.01
	2535.0	21100	V	17.45	5.88	-5.54	17.79	33.01
			H	23.02	5.88	-5.54	23.36	33.01
	2562.5	21375	V	15.08	5.93	-5.57	15.44	33.01
			H	21.30	5.93	-5.57	21.66	33.01

Remark :

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

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BAND 7 / 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 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	19.70	5.80	-5.48	20.02	33.01
			H	26.25	5.80	-5.48	26.57	33.01
	2535.0	21100	V	19.22	5.85	-5.52	19.56	33.01
			H	25.89	5.85	-5.52	26.23	33.01
	2562.5	21375	V	17.58	5.91	-5.55	17.94	33.01
			H	23.38	5.91	-5.55	23.73	33.01

BAND 7 / 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 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	16.52	5.83	-5.50	16.85	33.01
			H	24.88	5.83	-5.50	25.21	33.01
	2535.0	21100	V	17.60	5.88	-5.54	17.94	33.01
			H	23.25	5.88	-5.54	23.60	33.01
	2562.5	21375	V	15.32	5.93	-5.57	15.68	33.01
			H	21.54	5.93	-5.57	21.90	33.01

Remark :

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

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BAND 7 / 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 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	19.28	5.80	-5.48	19.60	33.01
			H	26.28	5.80	-5.48	26.60	33.01
	2535.0	21100	V	19.75	5.85	-5.52	20.09	33.01
			H	25.97	5.85	-5.51	26.31	33.01
	2560.0	21350	V	19.13	5.90	-5.55	19.48	33.01
			H	24.36	5.90	-5.55	24.71	33.01

BAND 7 / 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 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	18.4	5.84	-5.51	18.73	33.01
			H	25.18	5.84	-5.51	25.51	33.01
	2535.0	21100	V	19.1	5.88	-5.54	19.45	33.01
			H	22.95	5.89	-5.54	23.29	33.01
	2560.0	21350	V	16.11	5.93	-5.57	16.48	33.01
			H	21.39	5.93	-5.57	21.75	33.01

Remark :

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

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BAND 7 / 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 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	19.41	5.80	-5.48	19.73	33.01
			H	26.38	5.80	-5.48	26.70	33.01
	2535.0	21100	V	19.77	5.85	-5.51	20.11	33.01
			H	26.21	5.85	-5.51	26.55	33.01
	2560.0	21350	V	19.16	5.90	-5.55	19.51	33.01
			H	23.77	5.90	-5.55	24.12	33.01

BAND 7 / 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 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	18.58	5.84	-5.50	18.91	33.01
			H	25.43	5.84	-5.50	25.76	33.01
	2535.0	21100	V	19.25	5.88	-5.54	19.60	33.01
			H	23.17	5.88	-5.54	23.52	33.01
	2560.0	21350	V	16.44	5.93	-5.57	16.80	33.01
			H	21.67	5.93	-5.57	22.03	33.01

Remark :

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

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BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	5.67	3.86	-2.75	6.78	44.77
			H	17.70	3.86	-2.75	18.81	44.77
	710.0	23790	V	5.52	3.85	-2.75	6.62	44.77
			H	17.01	3.85	-2.76	18.11	44.77
	713.5	23825	V	3.09	3.84	-2.76	4.16	44.77
			H	15.79	3.84	-2.76	16.86	44.77

BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	5.03	3.85	-2.76	6.12	44.77
			H	16.97	3.85	-2.76	18.07	44.77
	710.0	23790	V	2.48	3.83	-2.76	3.55	44.77
			H	15.92	3.83	-2.76	16.99	44.77
	713.5	23825	V	2.11	3.82	-2.77	3.15	44.77
			H	17.02	3.82	-2.77	18.07	44.77

Remark :

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

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BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	6.76	3.86	-2.75	7.87	44.77
			H	18.34	3.86	-2.75	19.46	44.77
	710.0	23790	V	6.09	3.85	-2.76	7.18	44.77
			H	17.56	3.85	-2.76	18.66	44.77
	713.5	23825	V	3.45	3.84	-2.76	4.53	44.77
			H	16.53	3.84	-2.76	17.61	44.77

BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	5.50	3.85	-2.76	6.59	44.77
			H	17.49	3.85	-2.76	18.58	44.77
	710.0	23790	V	3.30	3.83	-2.77	4.37	44.77
			H	16.24	3.83	-2.76	17.31	44.77
	713.5	23825	V	3.12	3.82	-2.77	4.16	44.77
			H	17.58	3.82	-2.77	18.63	44.77

Remark :

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

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BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	5.80	3.86	-2.75	6.92	44.77
			H	16.83	3.86	-2.75	17.94	44.77
	710.0	23790	V	5.66	3.86	-2.75	6.77	44.77
			H	16.79	3.86	-2.75	17.89	44.77
	711.0	23800	V	5.77	3.85	-2.75	6.87	44.77
			H	16.96	3.85	-2.75	18.06	44.77

BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	1.91	3.83	-2.77	2.98	44.77
			H	14.81	3.83	-2.77	15.88	44.77
	710.0	23790	V	2.38	3.83	-2.77	3.44	44.77
			H	15.54	3.82	-2.77	16.60	44.77
	711.0	23800	V	2.91	3.82	-2.77	3.96	44.77
			H	16.23	3.82	-2.77	17.28	44.77

Remark :

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

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BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	6.65	3.86	-2.75	7.77	44.77
			H	17.71	3.86	-2.75	18.82	44.77
	710.0	23790	V	6.34	3.86	-2.75	7.44	44.77
			H	17.47	3.86	-2.75	18.57	44.77
	711.0	23800	V	6.43	3.85	-2.75	7.53	44.77
			H	17.62	3.85	-2.75	18.72	44.77

BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	3.25	3.83	-2.77	4.31	44.77
			H	16.15	3.83	-2.77	17.21	44.77
	710.0	23790	V	3.15	3.83	-2.77	4.20	44.77
			H	16.30	3.82	-2.77	17.35	44.77
	711.0	23800	V	3.57	3.82	-2.77	4.62	44.77
			H	16.92	3.82	-2.77	17.97	44.77

Remark :

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

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7.5.1 Measurement Result: (Average) – using option of RMS 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	19.36	3.91	-3.03	20.24	40.60
			H	21.50	3.91	-3.03	22.38	40.60
	836.6	190	V	19.44	3.89	-3.07	20.26	40.60
			H	21.16	3.89	-3.07	21.98	40.60
	848.8	251	V	19.77	3.87	-3.11	20.53	40.60
			H	21.07	3.87	-3.11	21.83	40.60

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	18.71	3.91	-3.03	19.59	40.60
			H	20.65	3.91	-3.03	21.53	40.60
	836.6	190	V	19.77	3.89	-3.07	20.59	40.60
			H	21.46	3.89	-3.07	22.28	40.60
	848.8	251	V	19.34	3.87	-3.11	20.10	40.60
			H	20.51	3.87	-3.11	21.27	40.60

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	13.92	3.91	-3.03	14.80	40.60
			H	17.92	3.91	-3.03	18.80	40.60
	836.6	190	V	15.74	3.89	-3.07	16.56	40.60
			H	18.85	3.89	-3.07	19.67	40.60
	848.8	251	V	16.08	3.87	-3.11	16.84	40.60
			H	18.27	3.87	-3.11	19.03	40.60

Remark : (1) The RBW,VBW of SPA for frequency RBW=6 kHz, VBW=20 kHz

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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	22.58	5.08	-4.67	22.99	33.01
			H	13.91	5.08	-4.67	14.32	33.01
	1880.0	661	V	22.92	5.00	-4.70	23.22	33.01
			H	15.22	5.00	-4.70	15.52	33.01
	1909.8	810	V	21.48	4.92	-4.74	21.66	33.01
			H	13.73	4.92	-4.74	13.91	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	22.67	5.08	-4.67	23.08	33.01
			H	14.65	5.08	-4.67	15.06	33.01
	1880.0	661	V	23.59	5.00	-4.70	23.89	33.01
			H	14.79	5.00	-4.70	15.09	33.01
	1909.8	810	V	21.93	4.92	-4.74	22.11	33.01
			H	14.08	4.92	-4.74	14.26	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	19.94	5.08	-4.67	20.35	33.01
			H	11.70	5.08	-4.67	12.11	33.01
	1880.0	661	V	19.92	5.00	-4.70	20.22	33.01
			H	11.64	5.00	-4.70	11.94	33.01
	1909.8	810	V	17.40	4.92	-4.74	17.58	33.01
			H	11.29	4.92	-4.74	11.47	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=6 kHz, VBW=20 kHz

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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	20.73	5.07	-4.67	21.13	33.01
			H	11.55	5.07	-4.67	11.95	33.01
	1880.0	9400	V	20.70	5.00	-4.70	21.00	33.01
			H	11.38	5.00	-4.70	11.68	33.01
	1907.6	9538	V	21.16	4.93	-4.74	21.35	33.01
			H	11.46	4.93	-4.74	11.65	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	20.77	5.07	-4.67	21.17	33.01
			H	11.24	5.07	-4.67	11.64	33.01
	1880.0	9400	V	21.70	5.00	-4.70	22.00	33.01
			H	12.76	5.00	-4.71	13.05	33.01
	1907.6	9538	V	22.53	4.93	-4.74	22.72	33.01
			H	12.23	4.93	-4.74	12.42	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	20.15	5.07	-4.67	20.55	33.01
			H	11.23	5.07	-4.67	11.63	33.01
	1880.0	9400	V	21.15	5.00	-4.70	21.45	33.01
			H	11.99	5.00	-4.70	12.29	33.01
	1907.6	9538	V	21.22	4.93	-4.74	21.41	33.01
			H	11.91	4.93	-4.74	12.10	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 1MHz , VBW= 3MHz

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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 B4	1712.4	1312	V	16.44	5.46	-4.50	17.40	30.00
			H	12.51	5.46	-4.50	13.47	30.00
	1732.6	1413	V	15.84	5.40	-4.53	16.71	30.00
			H	12.12	5.40	-4.53	12.99	30.00
	1752.6	1513	V	17.10	5.34	-4.55	17.89	30.00
			H	10.58	5.34	-4.55	11.37	30.00

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 B4	1712.4	1312	V	16.13	5.46	-4.50	17.09	30.00
			H	12.50	5.46	-4.50	13.46	30.00
	1732.6	1413	V	16.25	5.40	-4.53	17.12	30.00
			H	12.89	5.40	-4.52	13.77	30.00
	1752.6	1513	V	17.08	5.34	-4.55	17.87	30.00
			H	10.13	5.34	-4.55	10.92	30.00

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 B4	1712.4	1312	V	15.81	5.45	-4.50	16.76	30.00
			H	12.14	5.46	-4.50	13.10	30.00
	1732.6	1413	V	15.80	5.40	-4.53	16.67	30.00
			H	12.18	5.40	-4.53	13.05	30.00
	1752.6	1513	V	16.89	5.34	-4.55	17.68	30.00
			H	10.08	5.34	-4.55	10.87	30.00

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	15.14	3.90	-3.03	16.01	40.60
			H	18.50	3.90	-3.04	19.36	40.60
	836.6	4183	V	16.35	3.89	-3.07	17.17	40.60
			H	19.55	3.89	-3.07	20.37	40.60
	846.6	4233	V	15.95	3.88	-3.10	16.73	40.60
			H	18.87	3.88	-3.10	19.65	40.60

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	15.52	3.90	-3.03	16.39	40.60
			H	19.72	3.90	-3.04	20.58	40.60
	836.6	4183	V	16.91	3.89	-3.07	17.73	40.60
			H	19.98	3.89	-3.07	20.80	40.60
	846.6	4233	V	15.97	3.87	-3.10	16.74	40.60
			H	19.10	3.87	-3.10	19.87	40.60

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	15.07	3.90	-3.03	15.94	40.60
			H	18.36	3.90	-3.03	19.23	40.60
	836.6	4183	V	16.51	3.89	-3.07	17.33	40.60
			H	19.20	3.89	-3.07	20.02	40.60
	846.6	4233	V	16.12	3.88	-3.09	16.91	40.60
			H	18.90	3.87	-3.10	19.67	40.60

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 1MHz , VBW= 3MHz

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BAND 4 / 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 4 BW: 1.4M/ QPSK RB: 1,0	1710.7	19957	V	19.25	5.46	-4.50	20.21	30.00
			H	15.44	5.46	-4.50	16.40	30.00
	1732.5	20175	V	19.72	5.40	-4.52	20.60	30.00
			H	14.81	5.40	-4.52	15.69	30.00
	1754.3	20393	V	17.98	5.34	-4.55	18.77	30.00
			H	12.91	5.34	-4.55	13.70	30.00

BAND 4 / 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 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	19.16	5.46	-4.50	20.12	30.00
			H	14.78	5.46	-4.50	15.74	30.00
	1732.5	20175	V	19.13	5.40	-4.53	20.00	30.00
			H	15.34	5.40	-4.53	16.21	30.00
	1754.3	20393	V	15.93	5.34	-4.55	16.72	30.00
			H	12.10	5.34	-4.55	12.89	30.00

Remark :

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

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BAND 4 / 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 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	19.00	5.46	-4.50	19.96	30.00
			H	14.66	5.46	-4.50	15.62	30.00
	1732.5	20175	V	19.71	5.40	-4.52	20.59	30.00
			H	15.69	5.40	-4.52	16.57	30.00
	1754.3	20393	V	17.13	5.34	-4.55	17.92	30.00
			H	13.26	5.34	-4.55	14.05	30.00

BAND 4 / 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 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	19.39	5.46	-4.50	20.35	30.00
			H	15.19	5.46	-4.50	16.15	30.00
	1732.5	20175	V	19.17	5.40	-4.53	20.04	30.00
			H	15.42	5.40	-4.53	16.29	30.00
	1754.3	20393	V	17.16	5.34	-4.55	17.95	30.00
			H	12.80	5.34	-4.55	13.59	30.00

Remark :

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

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BAND 4 / 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 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	16.18	5.46	-4.50	17.14	30.00
			H	15.42	5.46	-4.50	16.38	30.00
	1732.5	20175	V	18.70	5.40	-4.52	19.58	30.00
			H	15.30	5.40	-4.52	16.18	30.00
	1753.5	20385	V	18.40	5.35	-4.55	19.20	30.00
			H	12.94	5.34	-4.55	13.73	30.00

BAND 4 / 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 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	17.30	5.46	-4.50	18.26	30.00
			H	15.46	5.46	-4.50	16.42	30.00
	1732.5	20175	V	18.71	5.40	-4.53	19.58	30.00
			H	15.37	5.40	-4.53	16.24	30.00
	1753.5	20385	V	18.07	5.34	-4.55	18.86	30.00
			H	12.00	5.34	-4.55	12.79	30.00

Remark :

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

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BAND 4 / 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 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	17.32	5.46	-4.50	18.28	30.00
			H	15.59	5.46	-4.50	16.55	30.00
	1732.5	20175	V	19.14	5.40	-4.52	20.02	30.00
			H	15.43	5.40	-4.52	16.31	30.00
	1753.5	20385	V	17.83	5.35	-4.55	18.63	30.00
			H	13.24	5.35	-4.55	14.04	30.00

BAND 4 / 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 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	17.04	5.46	-4.50	18.00	30.00
			H	15.54	5.46	-4.50	16.50	30.00
	1732.5	20175	V	19.20	5.40	-4.53	20.07	30.00
			H	15.42	5.40	-4.53	16.29	30.00
	1753.5	20385	V	17.92	5.34	-4.55	18.71	30.00
			H	13.26	5.34	-4.55	14.05	30.00

Remark :

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

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BAND 4 / 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 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	18.05	5.46	-4.50	19.01	30.00
			H	15.43	5.46	-4.50	16.39	30.00
	1732.5	20175	V	19.35	5.41	-4.52	20.24	30.00
			H	14.22	5.41	-4.52	15.11	30.00
	1752.5	20375	V	17.72	5.35	-4.55	18.52	30.00
			H	12.40	5.35	-4.55	13.20	30.00

BAND 4 / 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 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	18.48	5.45	-4.50	19.43	30.00
			H	15.25	5.45	-4.50	16.20	30.00
	1732.5	20175	V	18.72	5.39	-4.53	19.58	30.00
			H	15.57	5.39	-4.53	16.43	30.00
	1752.5	20375	V	17.66	5.34	-4.55	18.45	30.00
			H	12.46	5.34	-4.55	13.25	30.00

Remark :

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

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BAND 4 / 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 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	18.34	5.46	-4.50	19.30	30.00
			H	15.37	5.46	-4.50	16.33	30.00
	1732.5	20175	V	19.41	5.41	-4.52	20.30	30.00
			H	14.57	5.41	-4.52	15.46	30.00
	1752.5	20375	V	17.86	5.35	-4.55	18.66	30.00
			H	13.10	5.35	-4.55	13.90	30.00

BAND 4 / 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 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	18.31	5.45	-4.50	19.26	30.00
			H	15.38	5.45	-4.50	16.33	30.00
	1732.5	20175	V	19.72	5.39	-4.53	20.58	30.00
			H	15.46	5.39	-4.53	16.32	30.00
	1752.5	20375	V	17.81	5.34	-4.55	18.60	30.00
			H	13.44	5.34	-4.55	14.23	30.00

Remark :

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

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BAND 4 / 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 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	17.67	5.46	-4.50	18.63	30.00
			H	14.77	5.46	-4.50	15.73	30.00
	1732.5	20175	V	18.85	5.41	-4.52	19.74	30.00
			H	13.05	5.41	-4.52	13.94	30.00
	1750.0	20350	V	17.41	5.36	-4.54	18.23	30.00
			H	13.78	5.36	-4.54	14.60	30.00

BAND 4 / 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 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	17.66	5.44	-4.51	18.59	30.00
			H	13.08	5.44	-4.51	14.01	30.00
	1732.5	20175	V	18.78	5.39	-4.53	19.64	30.00
			H	13.60	5.39	-4.53	14.46	30.00
	1750.0	20350	V	17.77	5.34	-4.55	18.56	30.00
			H	12.13	5.34	-4.55	12.92	30.00

Remark :

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

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BAND 4 / 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 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	17.63	5.46	-4.50	18.59	30.00
			H	15.35	5.46	-4.50	16.31	30.00
	1732.5	20175	V	18.68	5.41	-4.52	19.57	30.00
			H	13.72	5.41	-4.52	14.61	30.00
	1750.0	20350	V	18.14	5.36	-4.54	18.96	30.00
			H	13.38	5.36	-4.54	14.20	30.00

BAND 4 / 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 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	18.00	5.44	-4.51	18.93	30.00
			H	13.93	5.44	-4.51	14.86	30.00
	1732.5	20175	V	19.45	5.39	-4.53	20.31	30.00
			H	14.21	5.39	-4.53	15.07	30.00
	1750.0	20350	V	17.56	5.34	-4.55	18.35	30.00
			H	11.72	5.34	-4.55	12.51	30.00

Remark :

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

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BAND 4 / 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 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	18.92	5.46	-4.50	19.88	30.00
			H	14.95	5.46	-4.50	15.91	30.00
	1732.5	20175	V	18.52	5.42	-4.52	19.42	30.00
			H	13.77	5.42	-4.52	14.67	30.00
	1747.5	20325	V	18.36	5.38	-4.54	19.20	30.00
			H	13.62	5.38	-4.54	14.46	30.00

BAND 4 / 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 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	17.99	5.42	-4.51	18.90	30.00
			H	13.24	5.42	-4.51	14.15	30.00
	1732.5	20175	V	19.17	5.38	-4.53	20.02	30.00
			H	13.76	5.38	-4.53	14.61	30.00
	1747.5	20325	V	16.99	5.34	-4.55	17.78	30.00
			H	12.24	5.34	-4.55	13.03	30.00

Remark :

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

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BAND 4 / 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 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	18.46	5.46	-4.50	19.42	30.00
			H	15.52	5.46	-4.50	16.48	30.00
	1732.5	20175	V	18.73	5.42	-4.52	19.63	30.00
			H	13.26	5.42	-4.52	14.16	30.00
	1747.5	20325	V	18.86	5.38	-4.54	19.70	30.00
			H	14.07	5.38	-4.54	14.91	30.00

BAND 4 / 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 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	18.59	5.42	-4.51	19.50	30.00
			H	13.11	5.42	-4.51	14.02	30.00
	1732.5	20175	V	18.41	5.38	-4.53	19.26	30.00
			H	14.14	5.38	-4.53	14.99	30.00
	1747.5	20325	V	17.60	5.34	-4.55	18.39	30.00
			H	12.92	5.34	-4.55	13.71	30.00

Remark :

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

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BAND 4 / 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 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	18.43	5.46	-4.50	19.39	30.00
			H	14.57	5.46	-4.50	15.53	30.00
	1732.5	20175	V	18.67	5.43	-4.51	19.59	30.00
			H	14.63	5.42	-4.51	15.54	30.00
	1745.0	20300	V	19.69	5.39	-4.53	20.55	30.00
			H	15.09	5.39	-4.53	15.95	30.00

BAND 4 / 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 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	19.37	5.41	-4.52	20.26	30.00
			H	14.78	5.41	-4.52	15.67	30.00
	1732.5	20175	V	19.07	5.37	-4.54	19.90	30.00
			H	14.55	5.38	-4.54	15.39	30.00
	1745.0	20300	V	18.45	5.34	-4.55	19.24	30.00
			H	12.79	5.34	-4.55	13.58	30.00

Remark :

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

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BAND 4 / 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 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	18.77	5.46	-4.5	19.73	30.00
			H	14.86	5.46	-4.5	15.82	30.00
	1732.5	20175	V	18.48	5.43	-4.51	19.40	30.00
			H	14.17	5.43	-4.51	15.09	30.00
	1745.0	20300	V	19.95	5.39	-4.53	20.81	30.00
			H	15.05	5.39	-4.53	15.91	30.00

BAND 4 / 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 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	16.33	5.41	-4.52	17.22	30.00
			H	12.62	5.41	-4.52	13.51	30.00
	1732.5	20175	V	15.54	5.38	-4.54	16.38	30.00
			H	12.78	5.38	-4.54	13.62	30.00
	1745.0	20300	V	15.51	5.34	-4.55	16.30	30.00
			H	10.51	5.34	-4.55	11.30	30.00

Remark :

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

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BAND 7 / 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 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	16.01	5.80	-5.48	16.33	33.01
			H	4.40	5.80	-5.48	4.72	33.01
	2535.0	21100	V	15.57	5.86	-5.52	15.91	33.01
			H	21.11	5.86	-5.52	21.45	33.01
	2567.5	21425	V	14.88	5.93	-5.57	15.24	33.01
			H	18.59	5.93	-5.57	18.95	33.01

BAND 7 / 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 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	17.36	5.81	-5.49	17.68	33.01
			H	22.72	5.81	-5.49	23.04	33.01
	2535.0	21100	V	14.54	5.87	-5.53	14.88	33.01
			H	20.88	5.87	-5.53	21.22	33.01
	2567.5	21425	V	12.87	5.93	-5.57	13.23	33.01
			H	17.01	5.93	-5.57	17.37	33.01

Remark :

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

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BAND 7 / 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 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	16.33	5.80	-5.48	16.65	33.01
			H	22.10	5.80	-5.48	22.42	33.01
	2535.0	21100	V	15.65	5.86	-5.52	15.99	33.01
			H	21.85	5.86	-5.52	22.19	33.01
	2567.5	21425	V	15.16	5.93	-5.57	15.52	33.01
			H	18.87	5.93	-5.57	19.23	33.01

BAND 7 / 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 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	17.36	5.81	-5.49	17.68	33.01
			H	23.54	5.81	-5.49	23.86	33.01
	2535.0	21100	V	14.55	5.87	-5.53	14.89	33.01
			H	20.91	5.87	-5.53	21.25	33.01
	2567.5	21425	V	12.93	5.93	-5.57	13.29	33.01
			H	16.97	5.93	-5.57	17.33	33.01

Remark :

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

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BAND 7 / 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 7 BW: 5M QPSK RB: 1,0	2505.0	20800	V	15.66	5.80	-5.48	15.98	33.01
			H	22.16	5.80	-5.48	22.48	33.01
	2535.0	21100	V	15.40	5.86	-5.52	15.74	33.01
			H	21.91	5.86	-5.52	22.25	33.01
	2565.0	21400	V	19.91	5.92	-5.56	20.27	33.01
			H	14.32	5.92	-5.56	14.68	33.01

BAND 7 / 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 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	14.01	5.82	-5.49	14.34	33.01
			H	22.28	5.82	-5.49	22.61	33.01
	2535.0	21100	V	13.94	5.88	-5.53	14.29	33.01
			H	20.12	5.88	-5.53	20.47	33.01
	2565.0	21400	V	12.26	5.94	-5.57	12.63	33.01
			H	17.79	5.93	-5.57	18.15	33.01

Remark :

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

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BAND 7 / 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 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	16.05	5.80	-5.48	16.37	33.01
			H	22.20	5.80	-5.48	22.52	33.01
	2535.0	21100	V	14.91	5.86	-5.52	15.25	33.01
			H	22.38	5.86	-5.52	22.72	33.01
	2565.0	21400	V	14.18	5.92	-5.56	14.54	33.01
			H	19.28	5.92	-5.56	19.64	33.01

BAND 7 / 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 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	14.86	5.82	-5.49	15.19	33.01
			H	22.33	5.82	-5.49	22.66	33.01
	2535.0	21100	V	14.54	5.88	-5.53	14.89	33.01
			H	20.08	5.88	-5.53	20.43	33.01
	2565.0	21400	V	12.36	5.93	-5.57	12.72	33.01
			H	17.55	5.93	-5.57	17.91	33.01

Remark :

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

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BAND 7 / 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 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	17.00	5.80	-5.48	17.32	33.01
			H	22.27	5.80	-5.48	22.59	33.01
	2535.0	21100	V	15.63	5.85	-5.52	15.96	33.01
			H	22.54	5.85	-5.52	22.87	33.01
	2562.5	21375	V	13.93	5.91	-5.55	14.29	33.01
			H	19.82	5.91	-5.55	20.18	33.01

BAND 7 / 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 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	12.52	5.83	-5.50	12.85	33.01
			H	21.51	5.83	-5.50	21.84	33.01
	2535.0	21100	V	14.42	5.88	-5.54	14.76	33.01
			H	19.77	5.88	-5.54	20.11	33.01
	2562.5	21375	V	12.00	5.93	-5.57	12.36	33.01
			H	17.61	5.93	-5.57	17.97	33.01

Remark :

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

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BAND 7 / 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 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	15.93	5.80	-5.48	16.25	33.01
			H	22.52	5.80	-5.48	22.84	33.01
	2535.0	21100	V	15.23	5.85	-5.52	15.56	33.01
			H	22.56	5.85	-5.52	22.89	33.01
	2562.5	21375	V	14.15	5.91	-5.55	14.51	33.01
			H	19.99	5.91	-5.55	20.35	33.01

BAND 7 / 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 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	13.46	5.83	-5.50	13.79	33.01
			H	21.62	5.83	-5.50	21.95	33.01
	2535.0	21100	V	13.94	5.88	-5.54	14.28	33.01
			H	19.74	5.88	-5.54	20.08	33.01
	2562.5	21375	V	11.98	5.93	-5.57	12.34	33.01
			H	18.02	5.93	-5.57	18.38	33.01

Remark :

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

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BAND 7 / 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 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	15.72	5.80	-5.48	16.04	33.01
			H	23.10	5.80	-5.48	23.42	33.01
	2535.0	21100	V	15.92	5.85	-5.52	16.25	33.01
			H	22.52	5.85	-5.51	22.86	33.01
	2560.0	21350	V	15.44	5.90	-5.55	15.79	33.01
			H	21.04	5.90	-5.55	21.39	33.01

BAND 7 / 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 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	15.05	5.84	-5.51	15.38	33.01
			H	21.65	5.84	-5.51	21.98	33.01
	2535.0	21100	V	16.01	5.88	-5.54	16.35	33.01
			H	19.53	5.89	-5.54	19.88	33.01
	2560.0	21350	V	12.64	5.93	-5.57	13.00	33.01
			H	17.95	5.93	-5.57	18.31	33.01

Remark :

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

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BAND 7 / 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 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	15.46	5.80	-5.48	15.78	33.01
			H	22.96	5.80	-5.48	23.28	33.01
	2535.0	21100	V	16.29	5.85	-5.51	16.63	33.01
			H	22.68	5.85	-5.51	23.02	33.01
	2560.0	21350	V	15.51	5.90	-5.55	15.86	33.01
			H	20.68	5.90	-5.55	21.03	33.01

BAND 7 / 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 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	14.99	5.84	-5.50	15.33	33.01
			H	21.68	5.84	-5.50	22.02	33.01
	2535.0	21100	V	15.70	5.88	-5.54	16.04	33.01
			H	20.04	5.88	-5.54	20.38	33.01
	2560.0	21350	V	13.15	5.93	-5.57	13.51	33.01
			H	18.55	5.93	-5.57	18.91	33.01

Remark :

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

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BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	2.56	3.86	-2.75	3.67	47.00
			H	13.92	3.86	-2.75	15.03	47.00
	710.0	23790	V	1.66	3.85	-2.75	2.76	47.00
			H	13.23	3.85	-2.76	14.32	47.00
	713.5	23825	V	-0.71	3.84	-2.76	0.37	47.00
			H	12.25	3.84	-2.76	13.33	47.00

BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	1.97	3.85	-2.76	3.06	47.00
			H	13.87	3.85	-2.76	14.96	47.00
	710.0	23790	V	-1.51	3.83	-2.76	-0.44	47.00
			H	12.05	3.83	-2.76	13.12	47.00
	713.5	23825	V	-1.58	3.82	-2.77	-0.53	47.00
			H	13.39	3.82	-2.77	14.44	47.00

Remark :

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

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BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	3.62	3.86	-2.75	4.73	47.00
			H	14.75	3.86	-2.75	15.86	47.00
	710.0	23790	V	2.50	3.85	-2.76	3.59	47.00
			H	14.17	3.85	-2.76	15.26	47.00
	713.5	23825	V	-0.14	3.84	-2.76	0.94	47.00
			H	12.66	3.84	-2.76	13.74	47.00

BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	2.13	3.85	-2.76	3.22	47.00
			H	13.95	3.85	-2.76	15.04	47.00
	710.0	23790	V	0.13	3.83	-2.77	1.19	47.00
			H	12.41	3.83	-2.76	13.48	47.00
	713.5	23825	V	-0.06	3.82	-2.77	0.99	47.00
			H	14.37	3.82	-2.77	15.42	47.00

Remark :

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

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BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	2.05	3.86	-2.75	3.16	47.00
			H	13.19	3.86	-2.75	14.30	47.00
	710.0	23790	V	2.32	3.86	-2.75	3.43	47.00
			H	13.46	3.86	-2.75	14.57	47.00
	711.0	23800	V	2.72	3.85	-2.75	3.82	47.00
			H	13.31	3.85	-2.75	14.41	47.00

BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	-1.31	3.83	-2.77	-0.25	47.00
			H	11.50	3.83	-2.77	12.56	47.00
	710.0	23790	V	-0.88	3.83	-2.77	0.18	47.00
			H	12.51	3.82	-2.77	13.56	47.00
	711.0	23800	V	-0.37	3.82	-2.77	0.68	47.00
			H	12.81	3.82	-2.77	13.86	47.00

Remark :

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

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BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	3.51	3.86	-2.75	4.62	47.00
			H	13.83	3.86	-2.75	14.94	47.00
	710.0	23790	V	2.43	3.86	-2.75	3.54	47.00
			H	13.91	3.86	-2.75	15.02	47.00
	711.0	23800	V	2.73	3.85	-2.75	3.83	47.00
			H	14.22	3.85	-2.75	15.32	47.00

BAND 17 / 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	dBd	dB	dBm	dBm
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	-0.06	3.83	-2.77	1.00	47.00
			H	12.48	3.83	-2.77	13.54	47.00
	710.0	23790	V	-0.19	3.83	-2.77	0.87	47.00
			H	13.15	3.82	-2.77	14.20	47.00
	711.0	23800	V	0.55	3.82	-2.77	1.60	47.00
			H	13.66	3.82	-2.77	14.71	47.00

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, -20dBc display line was placed on the screen (or 20dB bandwidth), 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 $> 2 * \text{Signal BW}$, set % Power = 99%.

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 20dB BW is arrow-mark

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	0.250

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 1900	1850.20	512	0.249
	1880.00	661	0.249
	1909.80	810	0.241

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.246
	836.60	190	0.256
	848.80	251	0.243

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.243
	1880.00	661	0.248
	1909.80	810	0.243

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.244
	836.60	190	0.248
	848.80	251	0.253

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.248
	1880.00	661	0.247
	1909.80	810	0.241

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.2186
	1880.00	9400	4.1230
	1907.60	9538	4.1569

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.1357
	1732.60	1413	4.1432
	1752.60	1513	4.2762

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1316
	836.00	4183	4.2005
	846.60	4233	4.0967

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.40	9262	4.1603
	1880.00	9400	4.1744
	1907.60	9538	4.0958

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.1161
	1732.60	1413	4.2307
	1752.60	1513	4.1407

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1009
	836.60	4183	4.1161
	846.60	4233	4.0916

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.40	9262	4.2010
	1880.00	9400	4.1051
	1907.60	9538	4.2332

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.1864
	1732.60	1413	4.1808
	1752.60	1513	4.2402

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.0651
	836.60	4183	4.2530
	846.60	4233	4.1100

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0)	1710.7	19957	1.0901
	1732.5	20175	1.1017
	1754.3	20393	1.0968

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (16QAM RB Number: 6 Offset: 0)	1710.7	19957	1.0905
	1732.5	20175	1.0959
	1754.3	20393	1.0856

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0)	1711.5	19965	2.6375
	1732.5	20175	2.6304
	1753.5	20385	2.6871

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 4 (16QAM RB Number: 15 Offset: 0)	1711.5	19965	2.6702
	1732.5	20175	2.6861
	1753.5	20385	2.6465

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0)	1710.7	19957	4.5241
	1732.5	20175	4.4121
	1752.5	20375	4.3733

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 4 (16QAM RB Number: 25 Offset: 0)	1710.7	19957	4.4230
	1732.5	20175	4.4459
	1752.5	20375	4.4356

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0)	1715.0	20000	8.9275
	1732.5	20175	8.9577
	1750.0	20350	8.8436

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 4 (16QAM RB Number: 50 Offset: 0)	1715.0	20000	8.9644
	1732.5	20175	8.9283
	1750.0	20350	8.8481

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0)	1717.5	20025	13.2580
	1732.5	20175	13.4492
	1747.5	20325	13.3090

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 4 (16QAM RB Number: 75 Offset: 0)	1717.5	20025	13.5779
	1732.5	20175	13.3117
	1747.5	20325	13.2837

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0)	1720.0	20050	17.5472
	1732.5	20175	17.6715
	1745.0	20300	17.5983

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 4 (16QAM RB Number: 100 Offset: 0)	1720.0	20050	17.6322
	1732.5	20175	17.8972
	1745.0	20300	17.6008

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0)	2502.5	20775	4.4617
	2535.0	21100	4.5395
	2567.5	21425	4.4788

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 7 (16QAM RB Number: 25 Offset: 0)	2502.5	20775	4.4498
	2535.0	21100	4.5010
	2567.5	21425	4.4516

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0)	2505.0	20800	8.7325
	2535.0	21100	8.9009
	2565.0	21400	8.9274

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0)	2505.0	20800	8.9315
	2535.0	21100	8.9229
	2565.0	21400	8.8942

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0)	2507.5	20825	13.3437
	2535.0	21100	13.4478
	2562.5	21375	13.3368

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0)	2507.5	20825	13.2321
	2535.0	21100	13.3534
	2562.5	21375	13.3310

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0)	2510.0	20850	17.8756
	2535.0	21100	17.8224
	2560.0	21350	17.9674

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0)	2510.0	20850	17.8175
	2535.0	21100	17.8137
	2560.0	21350	17.9109

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0)	706.5	23775	4.4496
	710.0	23790	4.4677
	713.5	23825	4.5394

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 17 (16QAM RB Number: 25 Offset: 0)	706.5	23775	4.4917
	710.0	23790	4.4936
	713.5	23825	4.4719

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0)	709.0	23780	8.9005
	710.0	23790	8.8750
	711.0	23800	8.9786

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 17 (16QAM RB Number: 50 Offset: 0)	709.0	23780	8.8409
	710.0	23790	8.8974
	711.0	23800	8.9501

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20dB Bandwidth

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
GSM 850	824.20	128	0.284
	836.60	190	0.286
	848.80	251	0.281

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
GSM 1900	1850.20	512	0.286
	1880.00	661	0.280
	1909.80	810	0.273

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
GPRS 850	824.20	128	0.279
	836.60	190	0.300
	848.80	251	0.281

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
GPRS 1900	1850.20	512	0.286
	1880.00	661	0.285
	1909.80	810	0.291

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
EDGE 850	824.20	128	0.277
	836.60	190	0.287
	848.80	251	0.288

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
EDGE 1900	1850.20	512	0.283
	1880.00	661	0.273
	1909.80	810	0.280

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
WCDMA II	1852.40	9262	4.549
	1880.00	9400	4.462
	1907.60	9538	4.475

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.384
	1732.60	1413	4.369
	1752.60	1513	4.467

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
WCDMA V	826.40	4132	4.427
	836.00	4183	4.364
	846.60	4233	4.503

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSDPA II	1852.40	9262	4.506
	1880.00	9400	4.380
	1907.60	9538	4.447

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.402
	1732.60	1413	4.396
	1752.60	1513	4.503

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSDPA V	826.40	4132	4.424
	836.60	4183	4.297
	846.60	4233	4.397

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSUPA II	1852.40	9262	4.473
	1880.00	9400	4.354
	1907.60	9538	4.440

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.501
	1732.60	1413	4.367
	1752.60	1513	4.513

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSUPA V	826.40	4132	4.453
	836.60	4183	4.501
	846.60	4233	4.357

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0)	1710.7	19957	1.1950
	1732.5	20175	1.1510
	1754.3	20393	1.1750

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (16QAM RB Number: 6 Offset: 0)	1710.7	19957	1.1320
	1732.5	20175	1.1550
	1754.3	20393	1.1550

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0)	1711.5	19965	2.7440
	1732.5	20175	2.7770
	1753.5	20385	2.8280

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
3MHz BW LTE-Band 4 (16QAM RB Number: 15 Offset: 0)	1711.5	19965	2.7530
	1732.5	20175	2.8320
	1753.5	20385	2.7560

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0)	1710.7	19957	4.6240
	1732.5	20175	4.6520
	1752.5	20375	4.5420

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
5MHz BW LTE-Band 4 (16QAM RB Number: 25 Offset: 0)	1710.7	19957	4.6170
	1732.5	20175	4.6390
	1752.5	20375	4.6890

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0)	1715.0	20000	9.3030
	1732.5	20175	9.2600
	1750.0	20350	9.1700

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
10MHz BW LTE-Band 4 (16QAM RB Number: 50 Offset: 0)	1715.0	20000	9.3570
	1732.5	20175	9.2270
	1750.0	20350	9.1790

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0)	1717.5	20025	13.6360
	1732.5	20175	13.9270
	1747.5	20325	13.7930

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
15MHz BW LTE-Band 4 (16QAM RB Number: 75 Offset: 0)	1717.5	20025	13.9520
	1732.5	20175	14.0550
	1747.5	20325	13.8320

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0)	1720.0	20050	18.3000
	1732.5	20175	18.5370
	1745.0	20300	18.1520

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
20MHz BW LTE-Band 4 (16QAM RB Number: 100 Offset: 0)	1720.0	20050	18.2350
	1732.5	20175	18.5000
	1745.0	20300	18.4240

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99% & 20dB Bandwidth Test Data

Figure 8-1: GSM 850 Channel Low

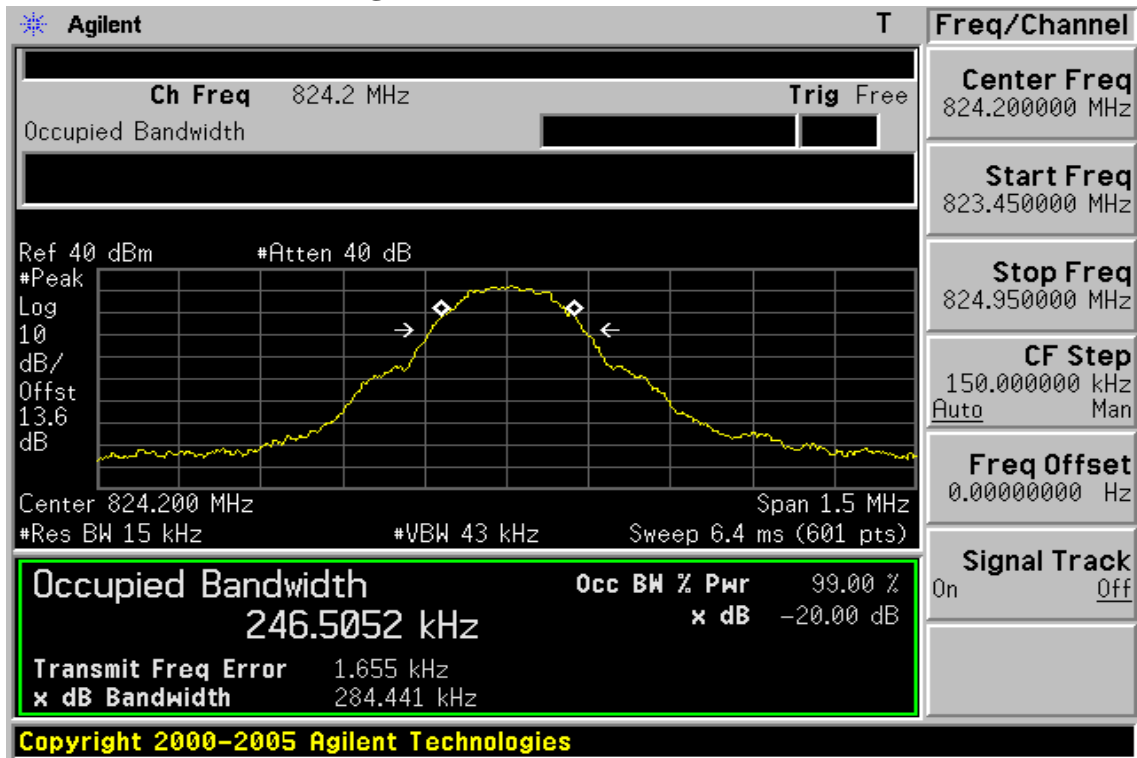
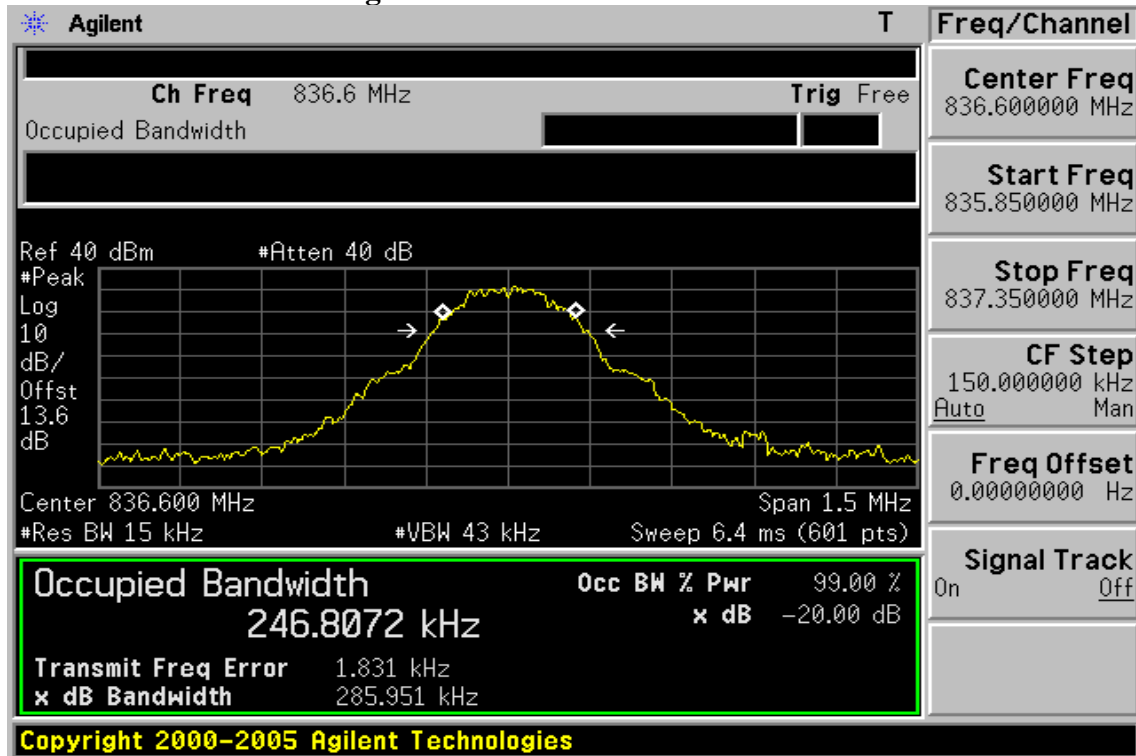


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

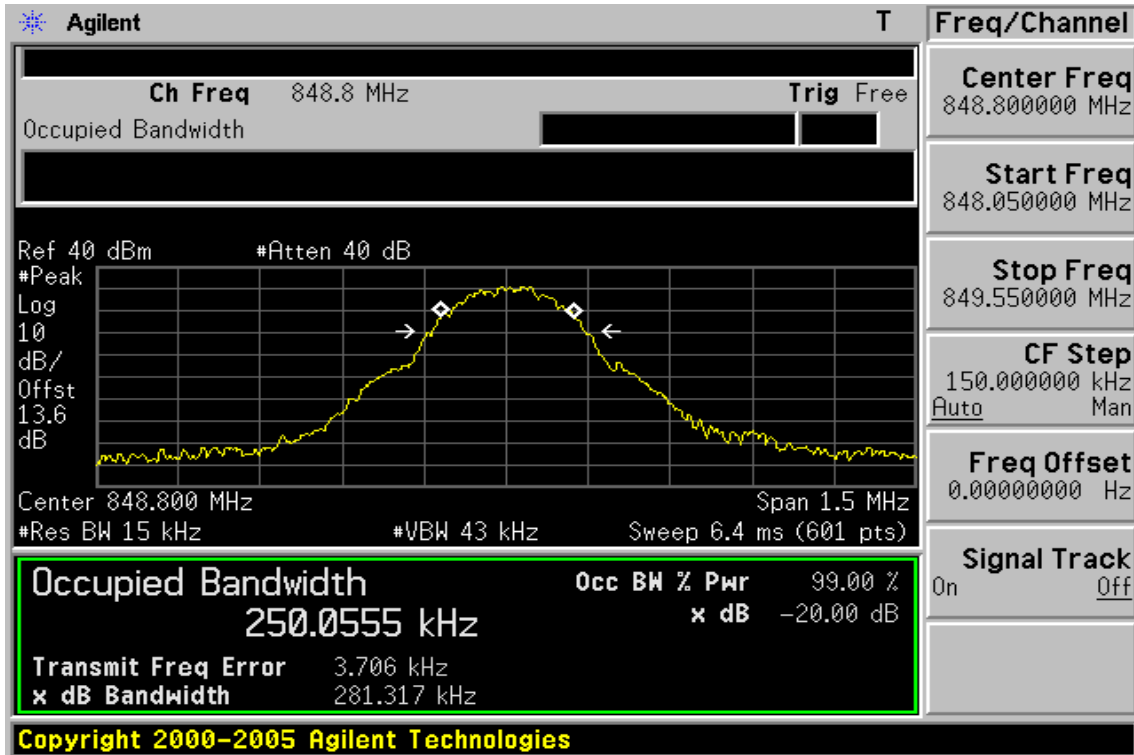
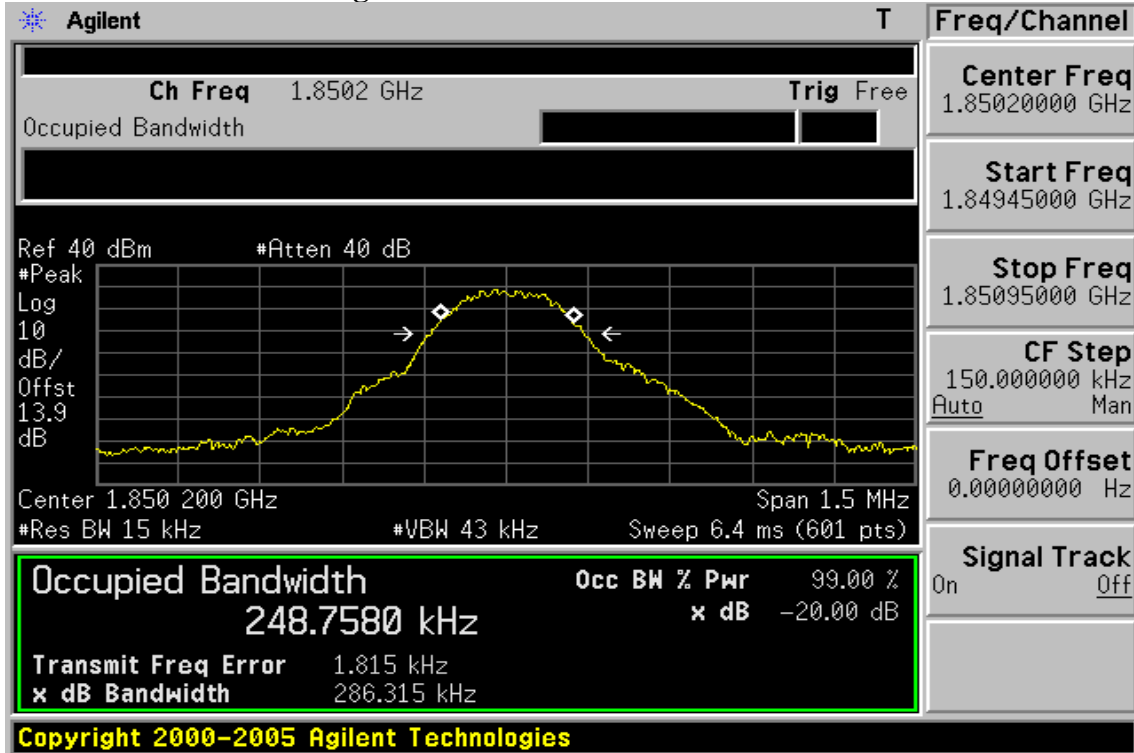


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

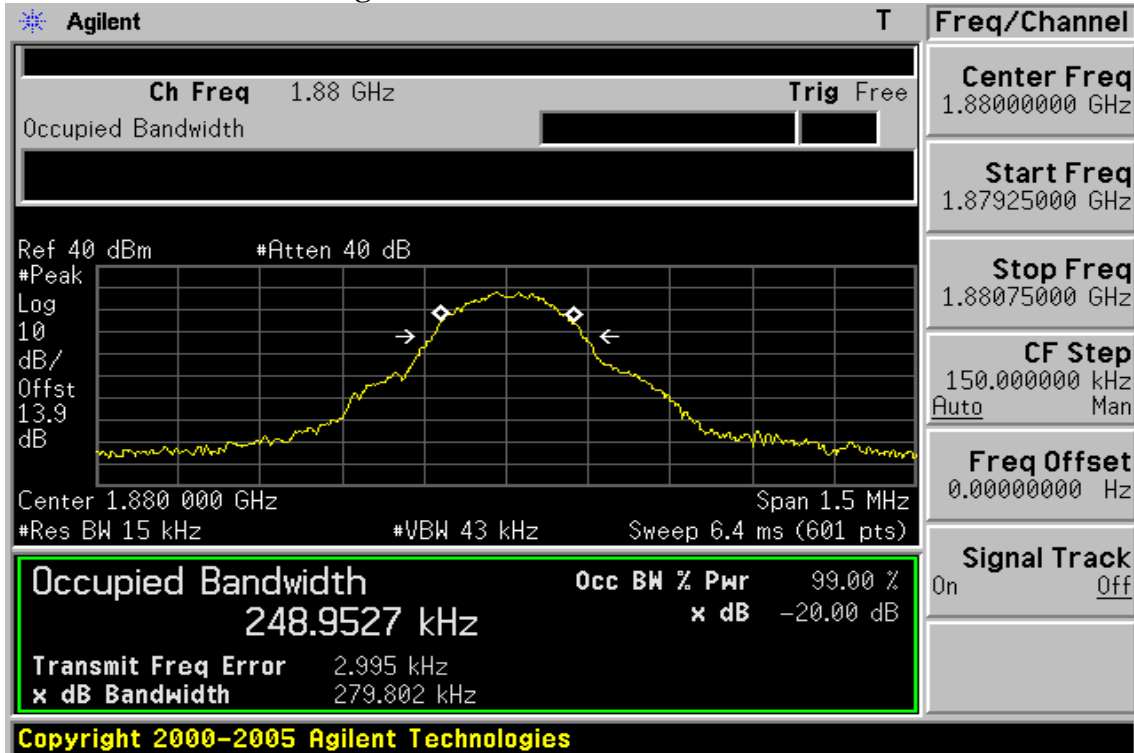
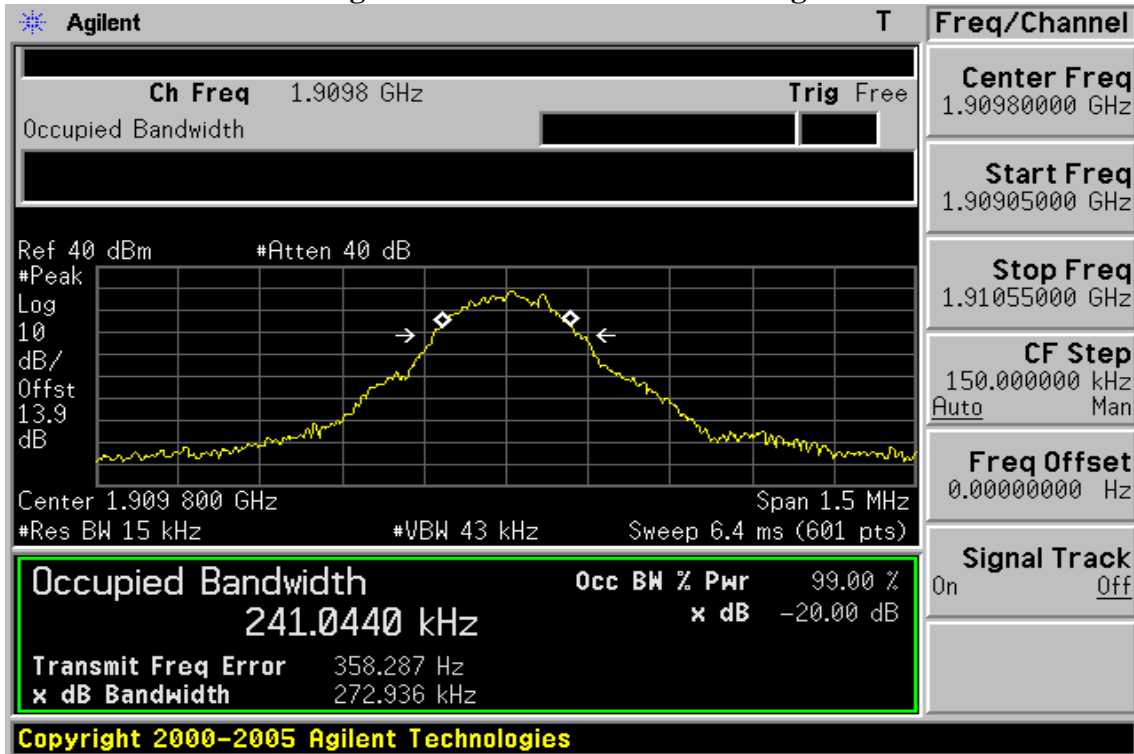


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

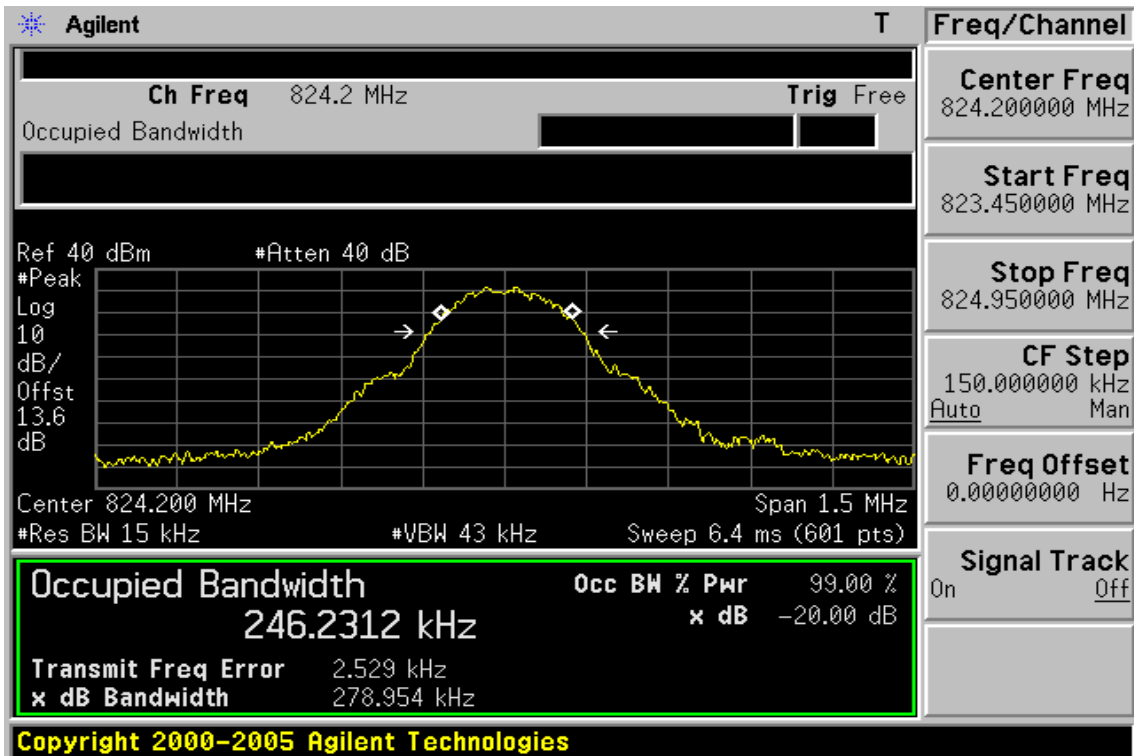
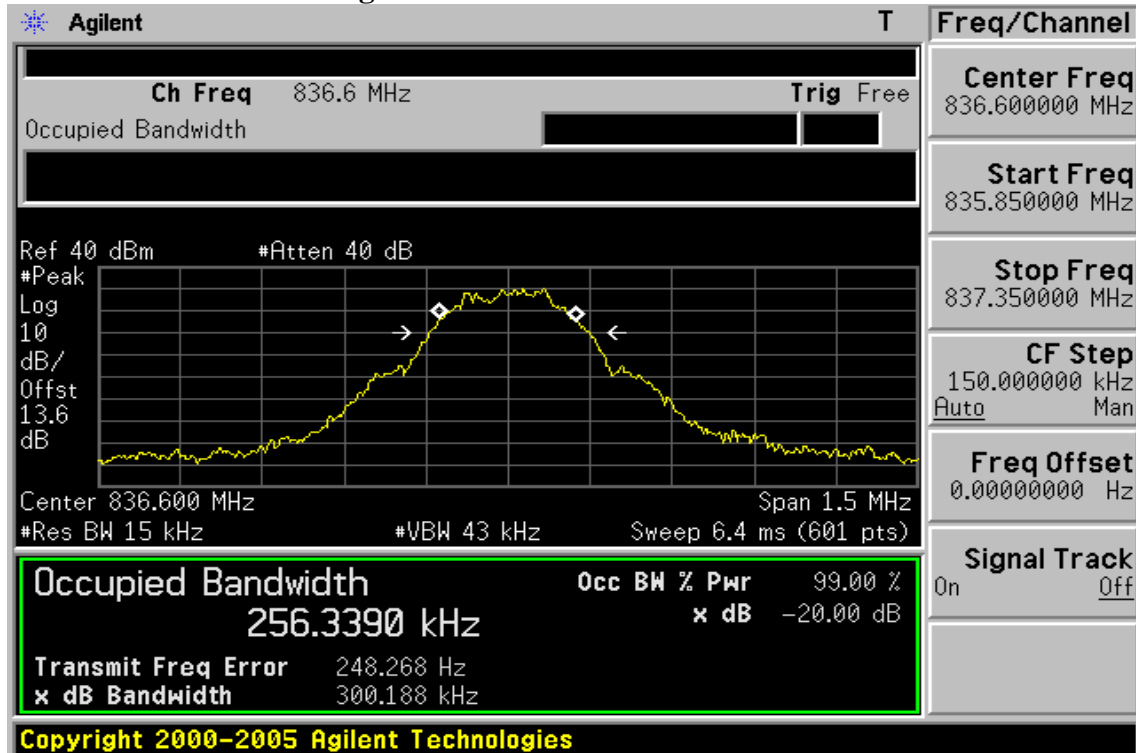


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

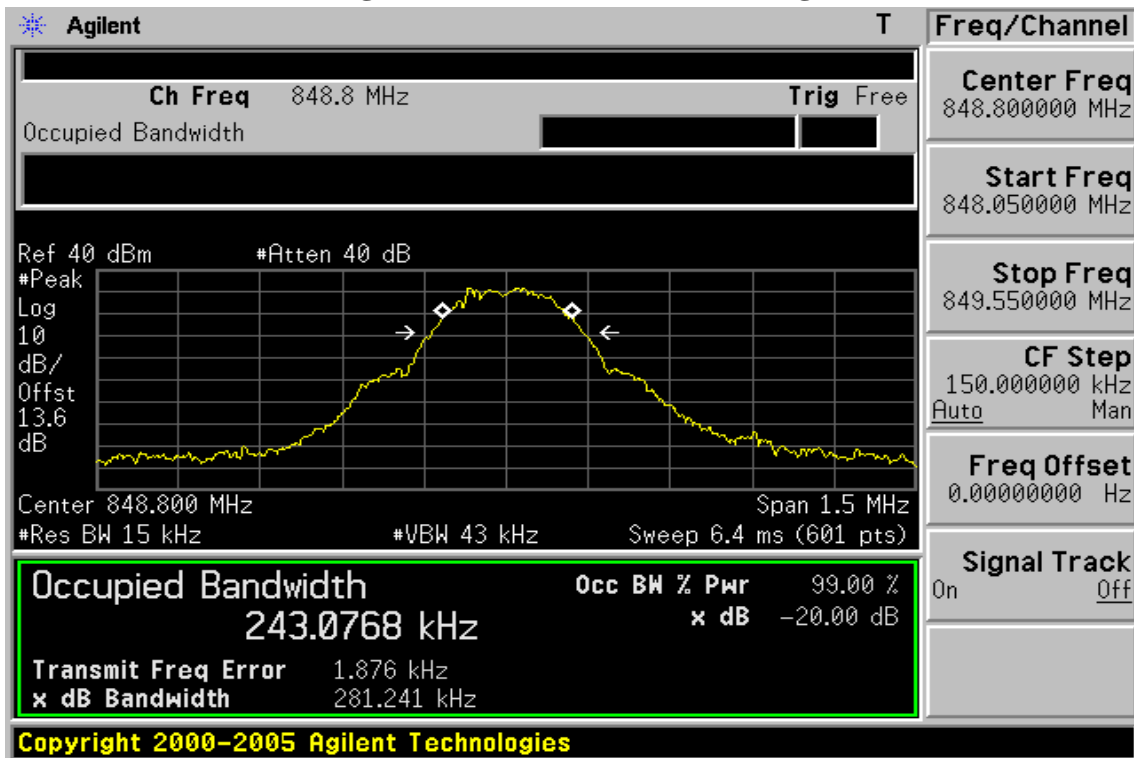
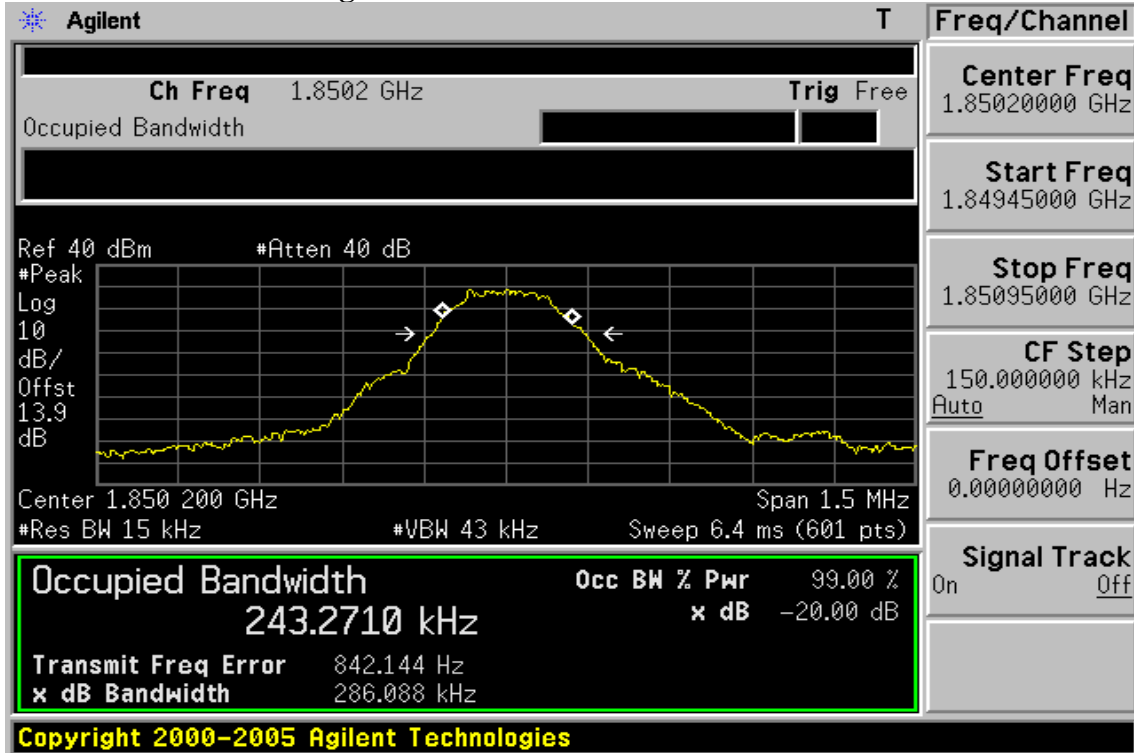


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11: GPRS 1900 Channel Mid

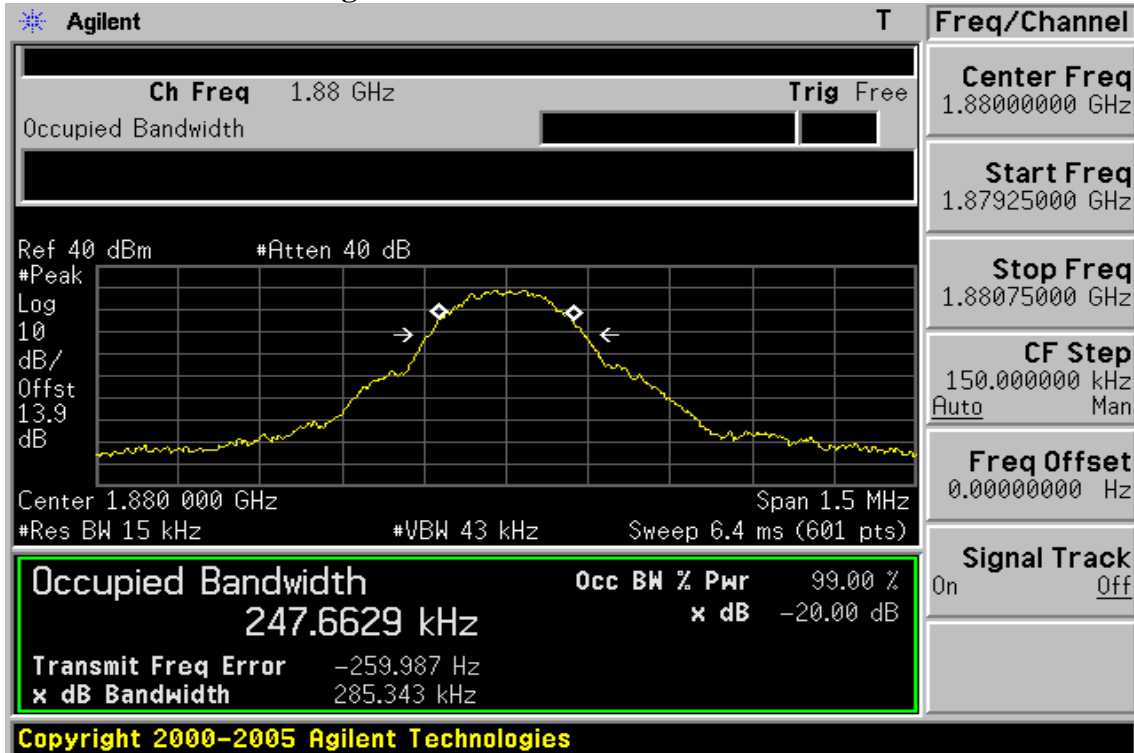
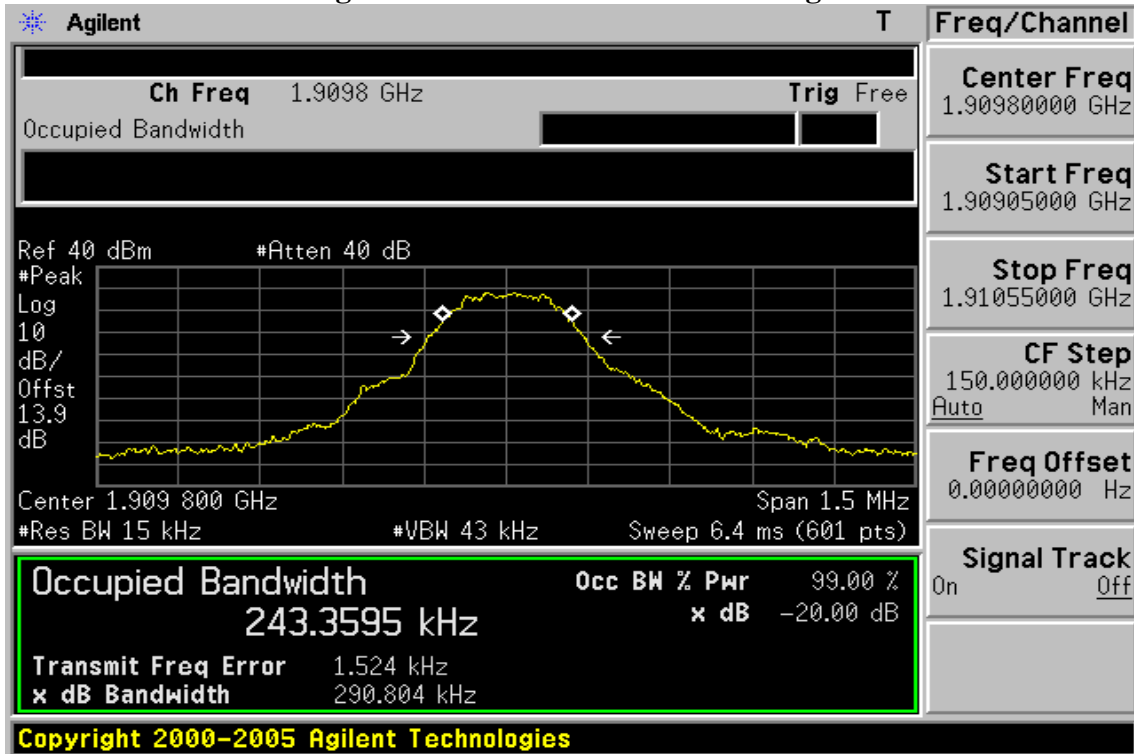


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

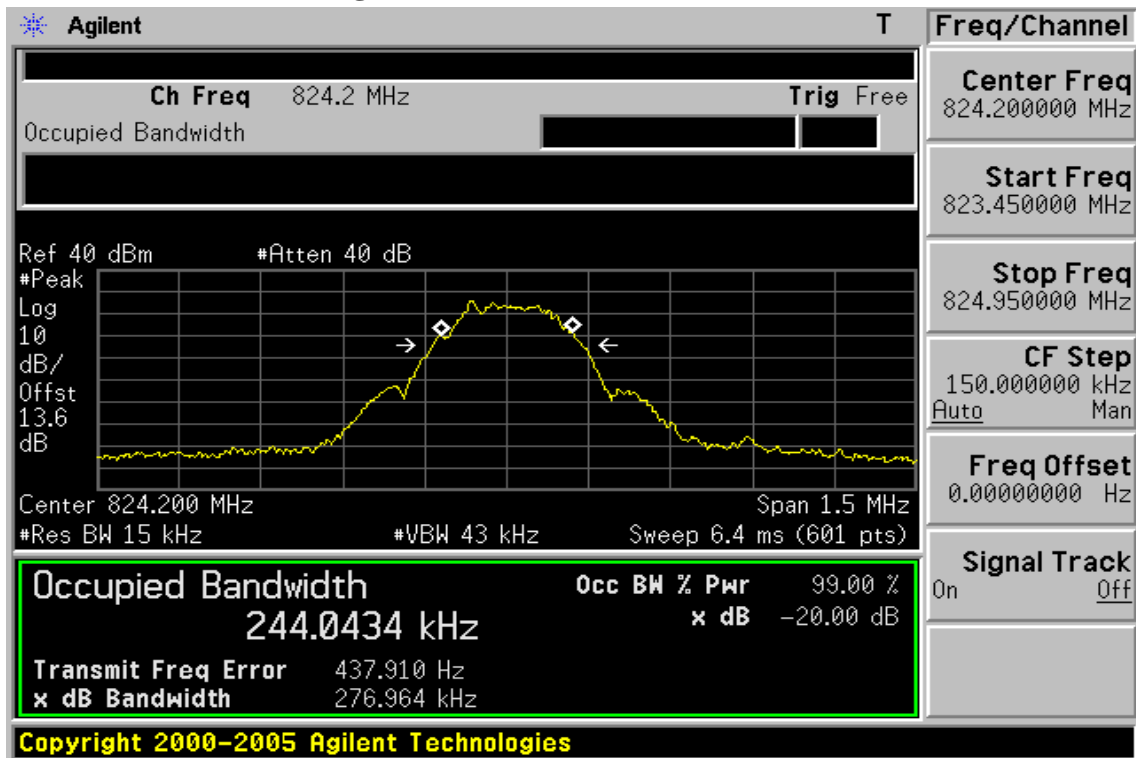
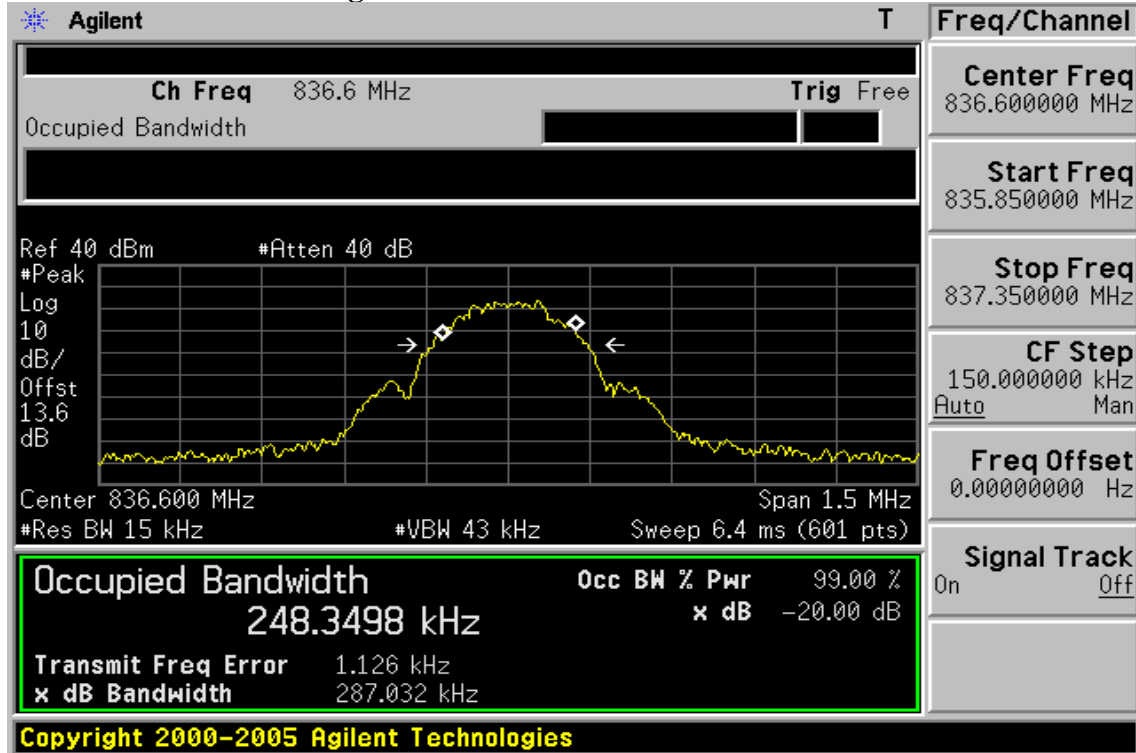


Figure 8-14: EDGE 850 Channel Mid



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GPRS Figure 8-15: EDGE 850 Channel High

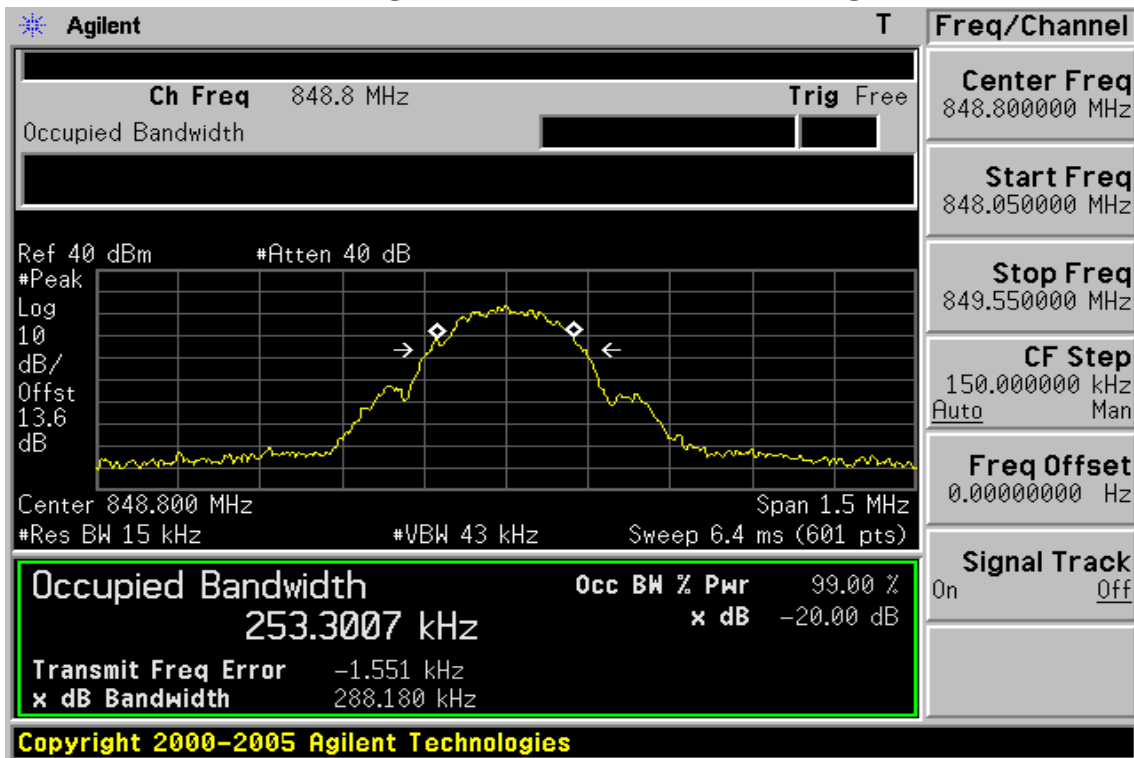
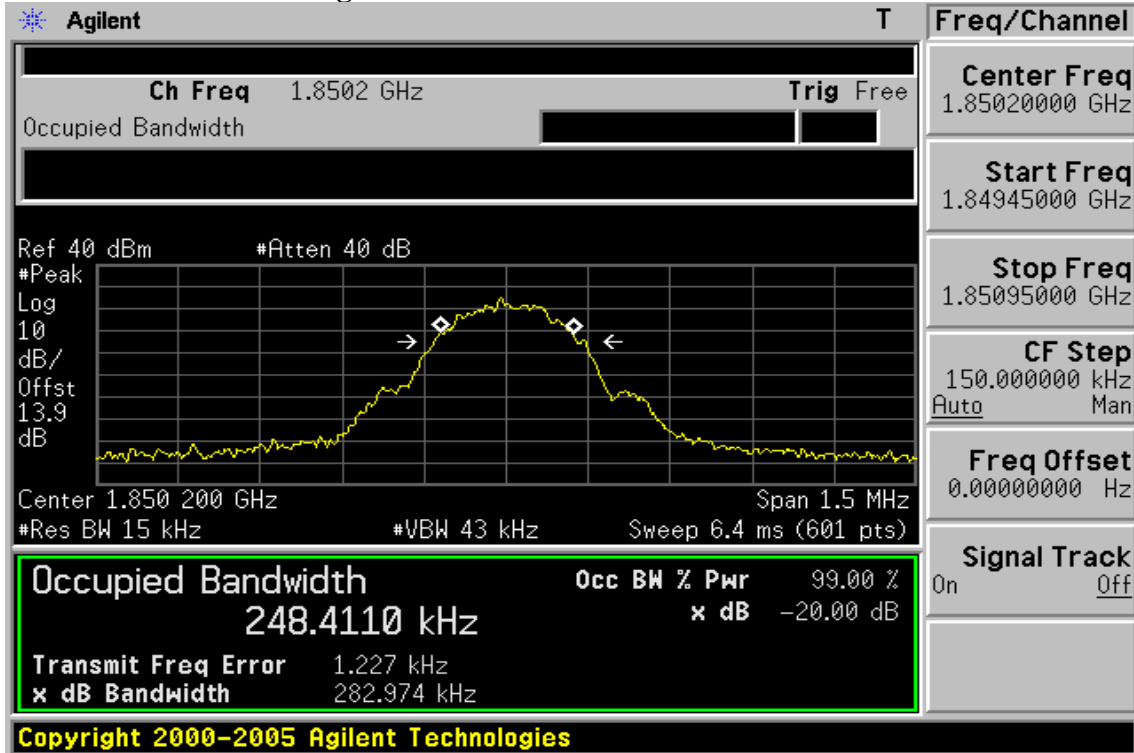


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17: EDGE 1900 Channel Mid

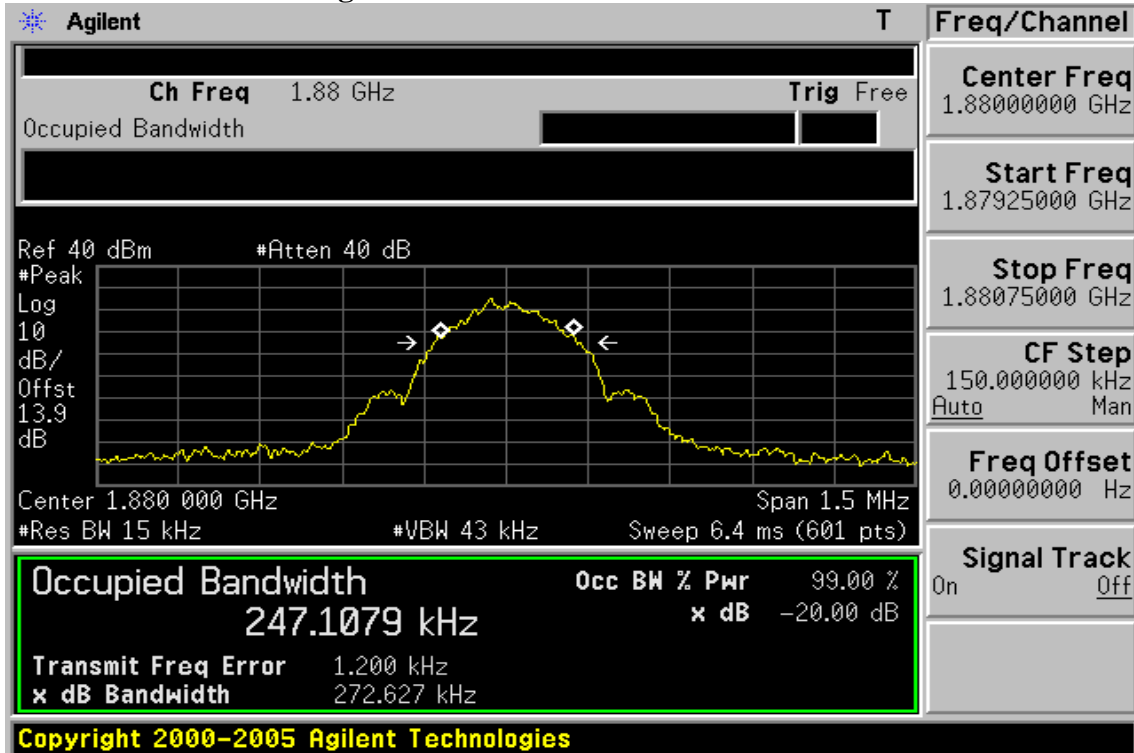
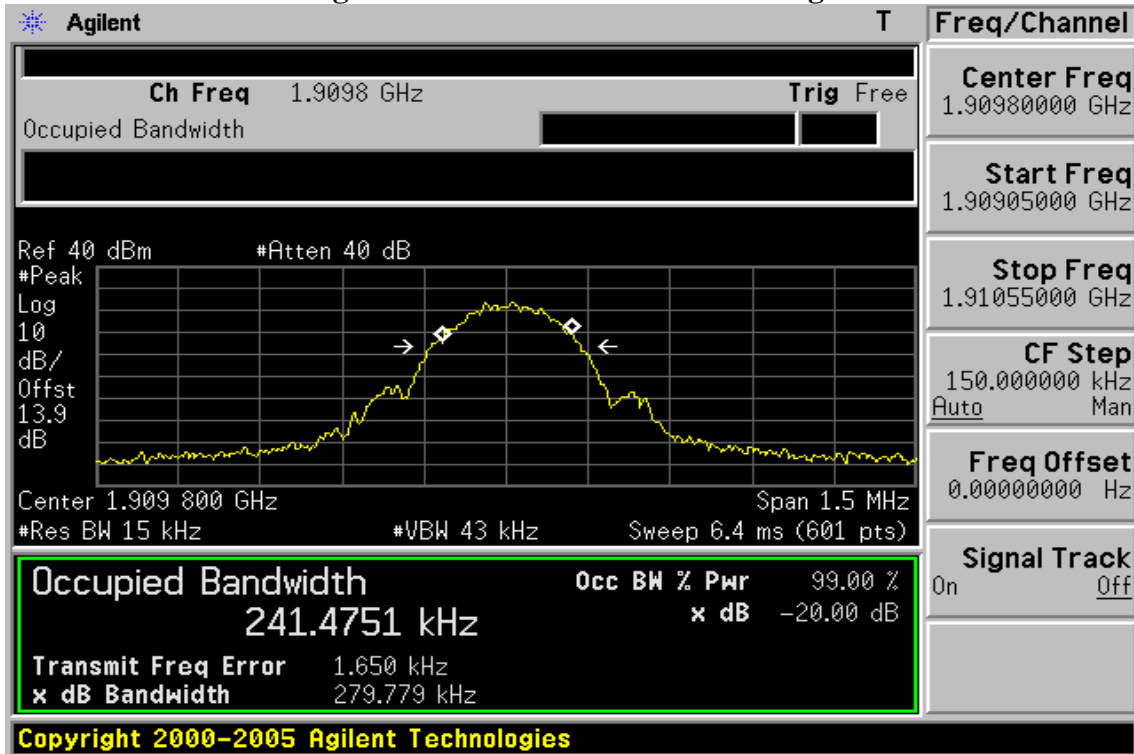


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: WCDMA II Channel Low

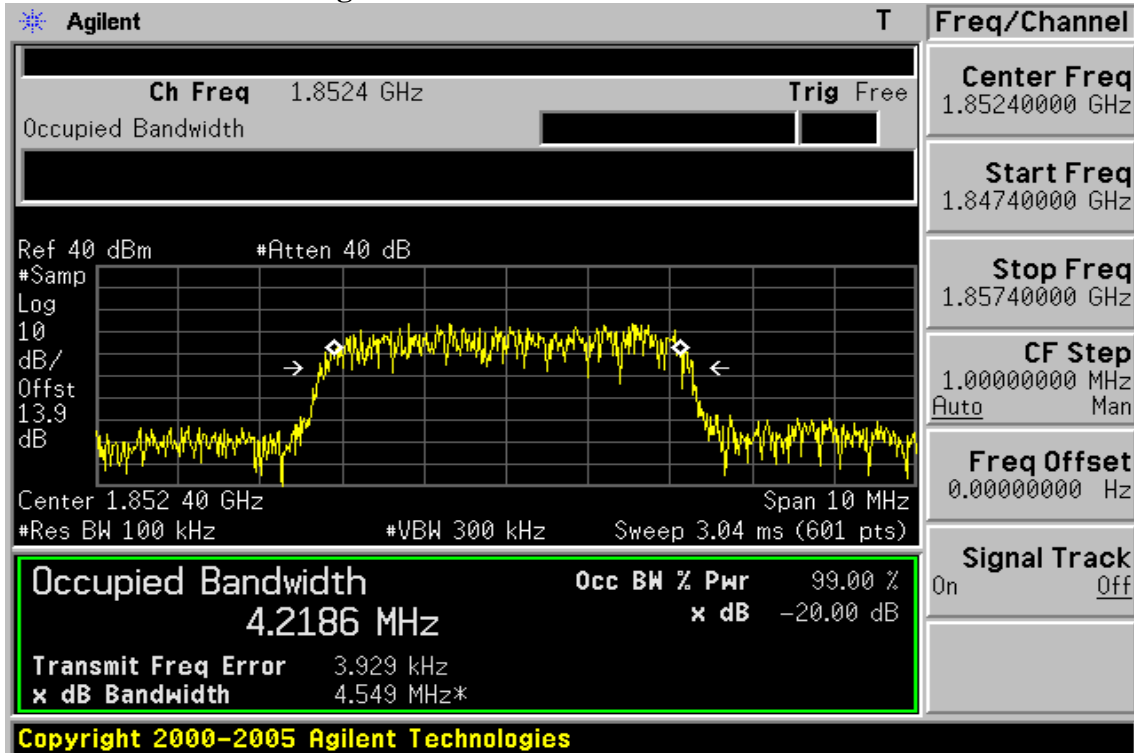
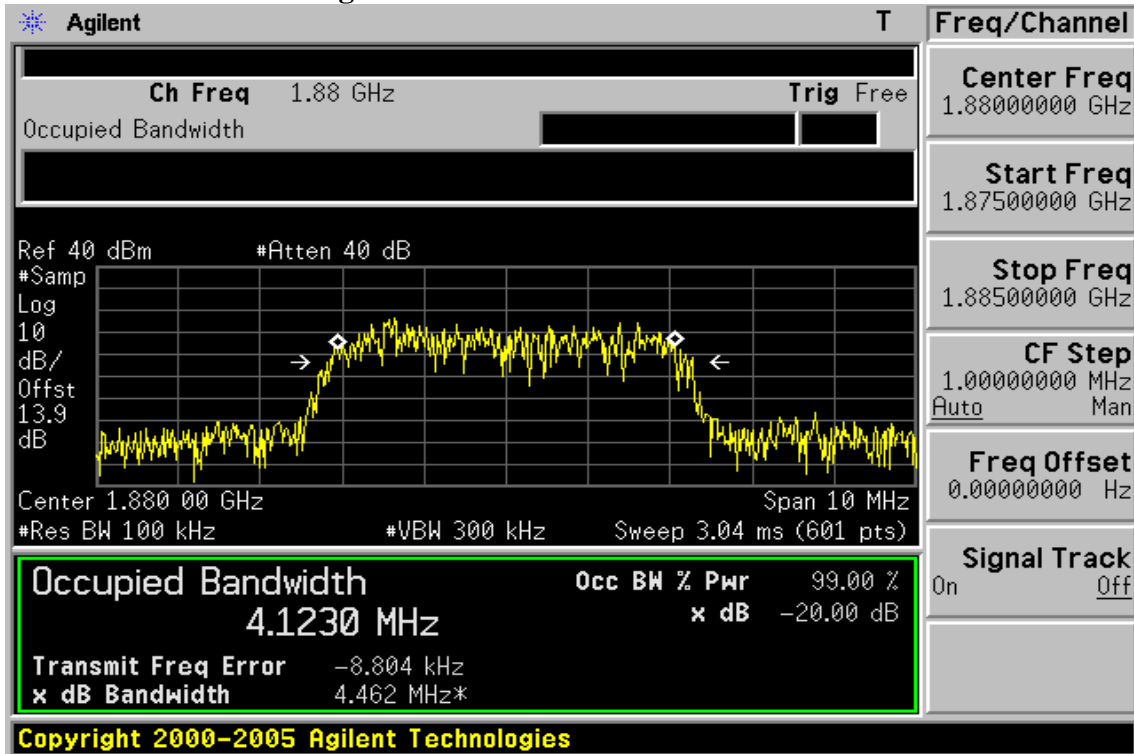


Figure 8-20: WCDMA II Channel Mid



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Figure 8-21: WCDMA II Channel High

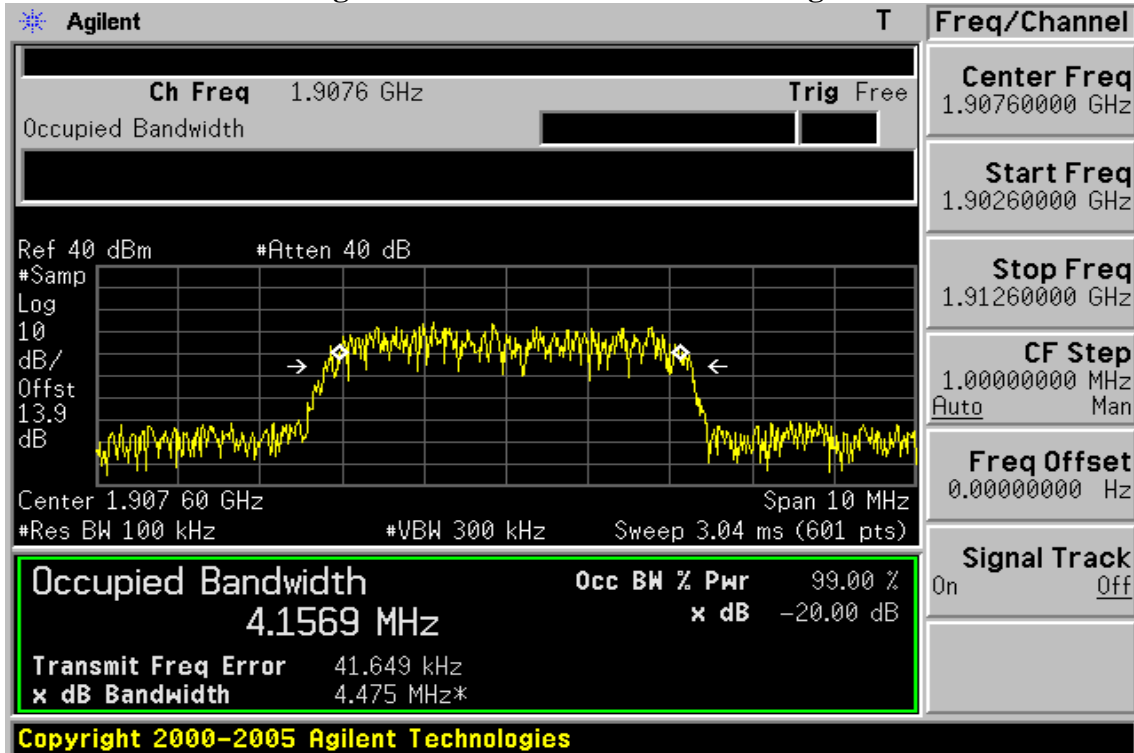
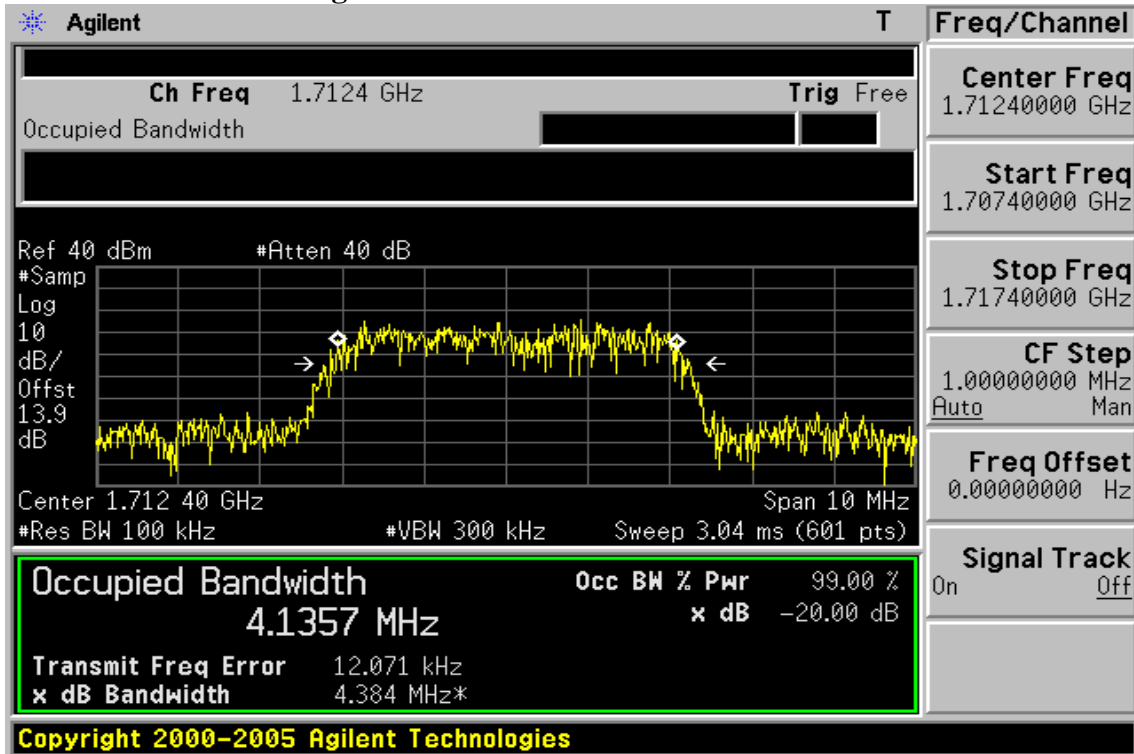


Figure 8-22: WCDMA IV Channel Low



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Figure 8-23: WCDMA IV Channel Mid

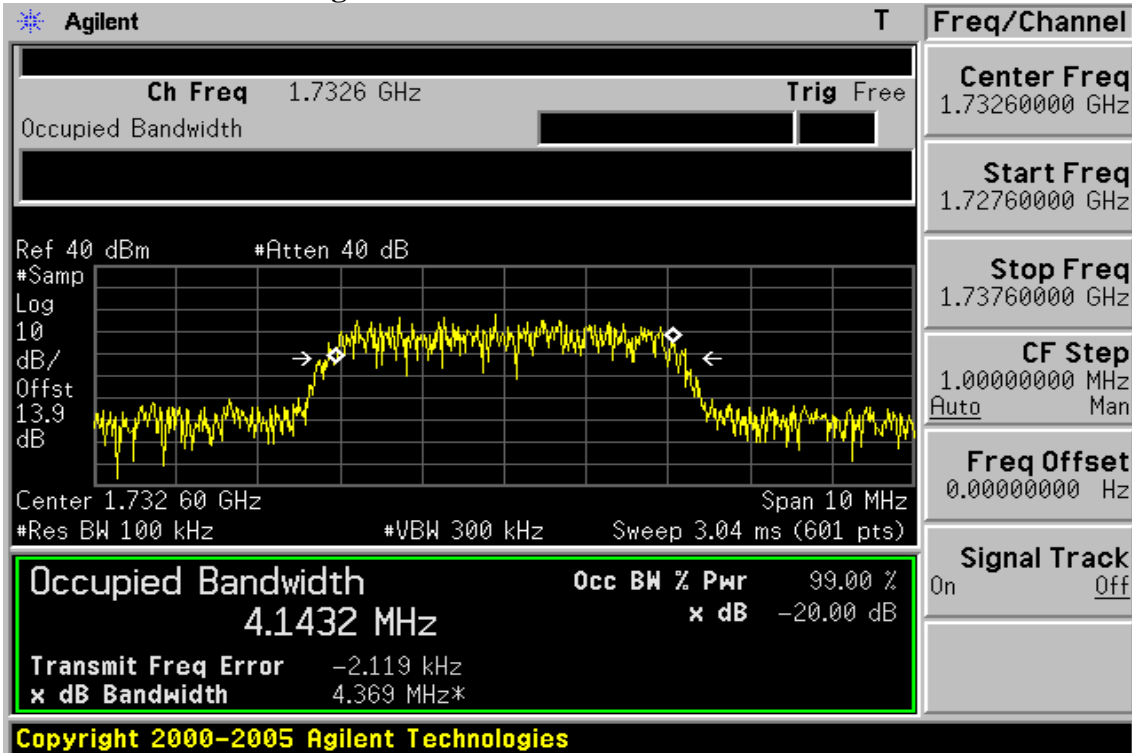
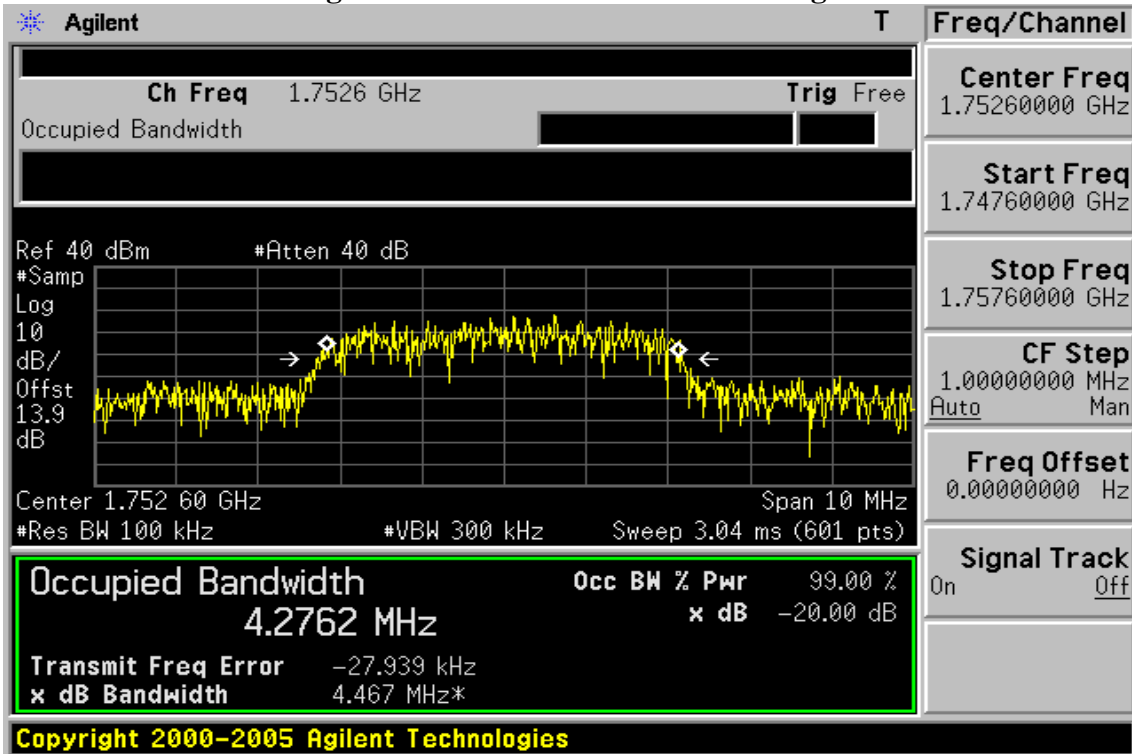


Figure 8-24: WCDMA IV Channel High



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Figure 8-25: WCDMA V Channel Low

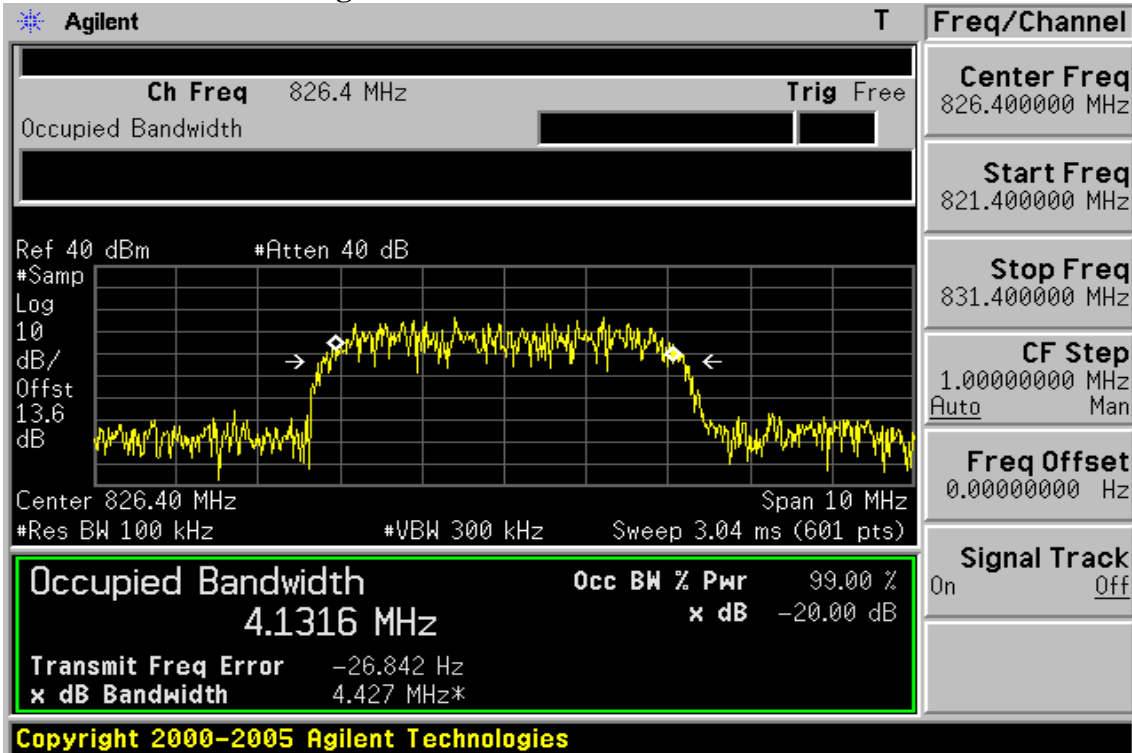
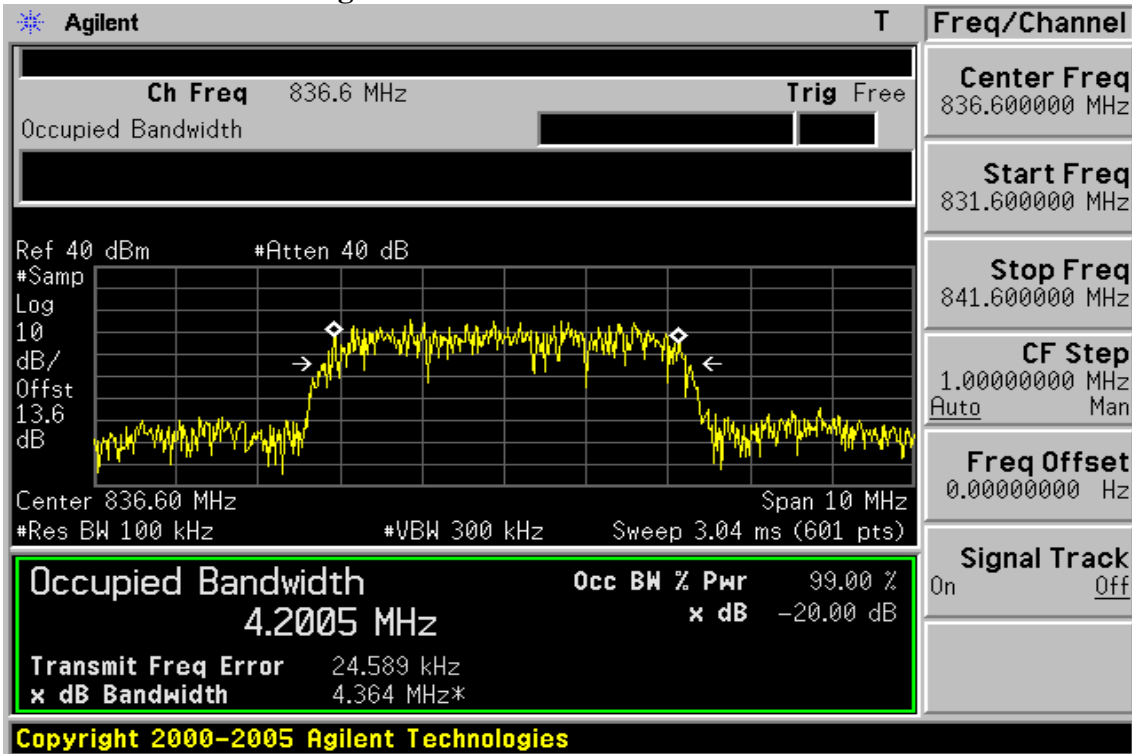


Figure 8-26: WCDMA V Channel Mid



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Figure 8-27: WCDMA V Channel High

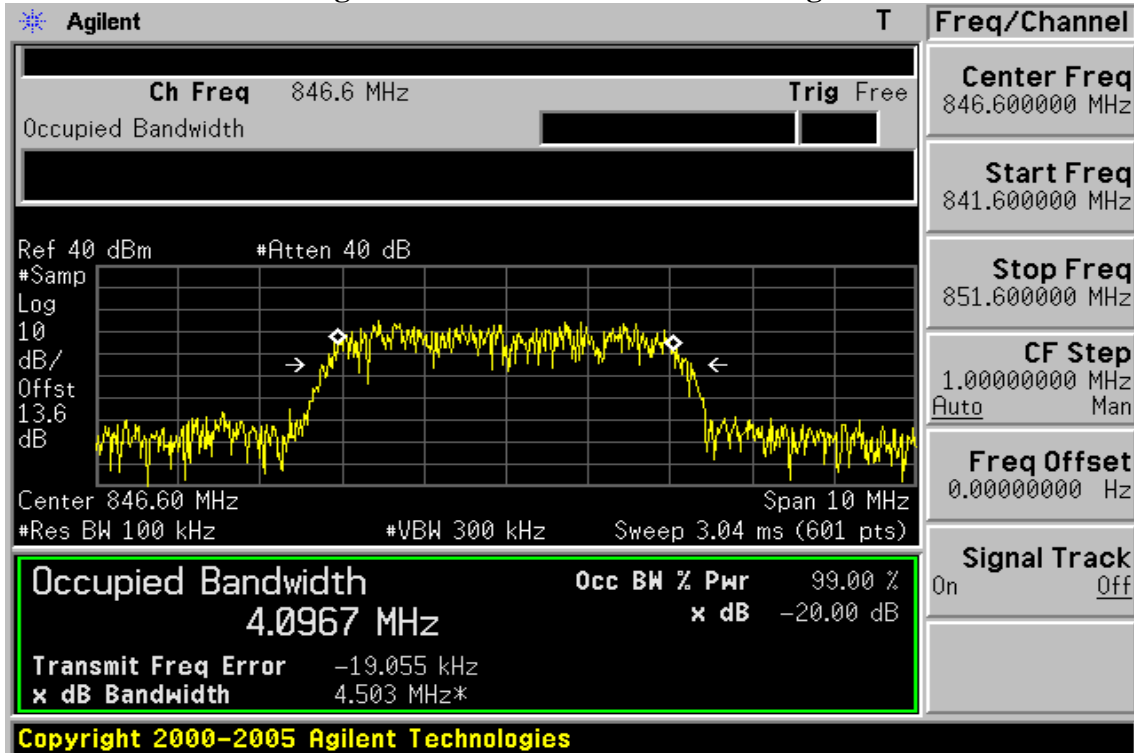
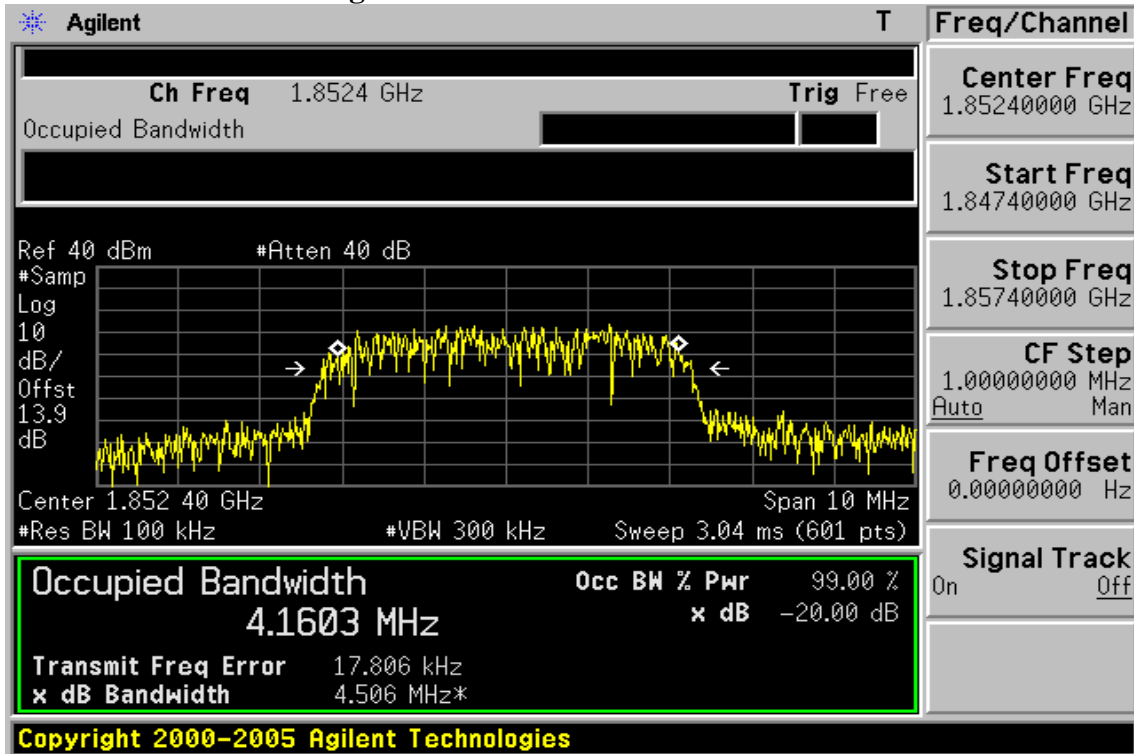


Figure 8-28: HSDPA II Channel Low



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Figure 8-29: HSDPA II Channel Mid

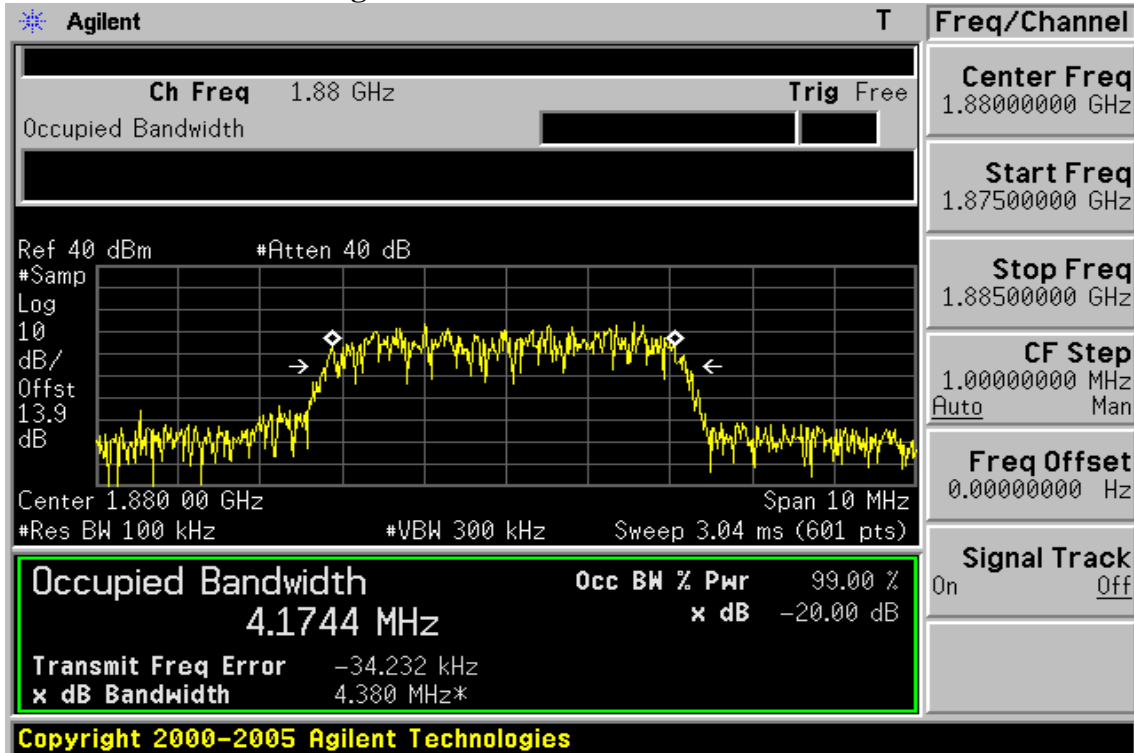
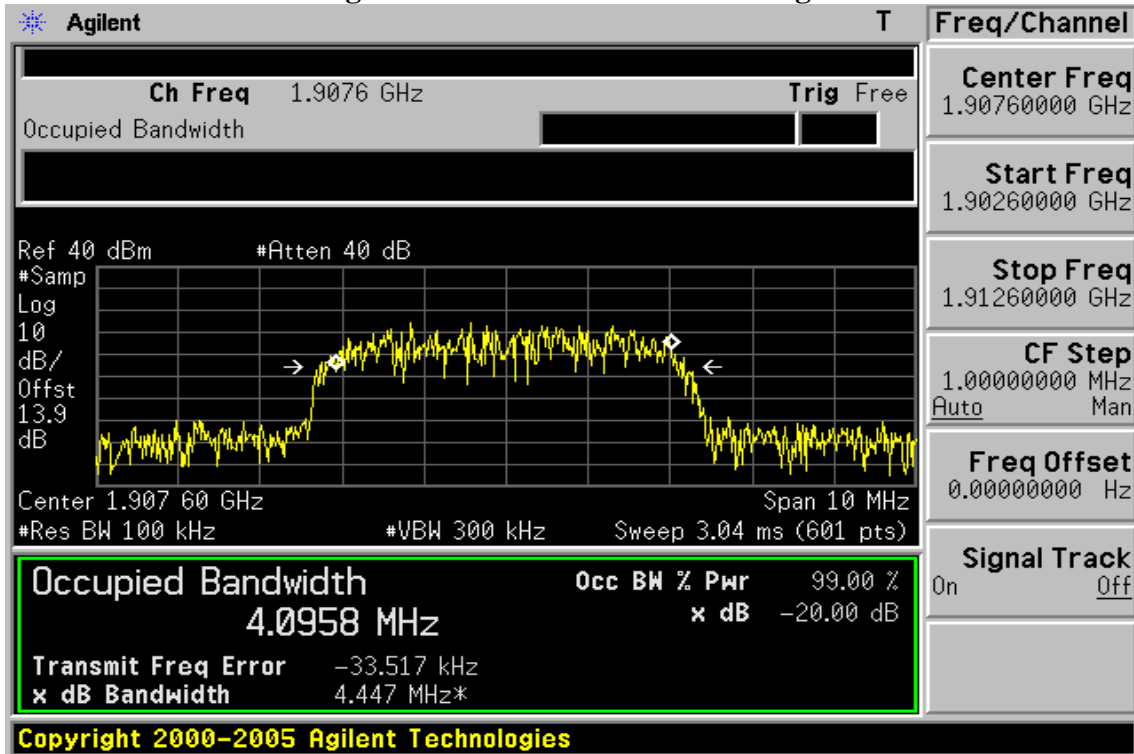


Figure 8-30: HSDPA II Channel High



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Figure 8-31: HSDPA IV Channel Low

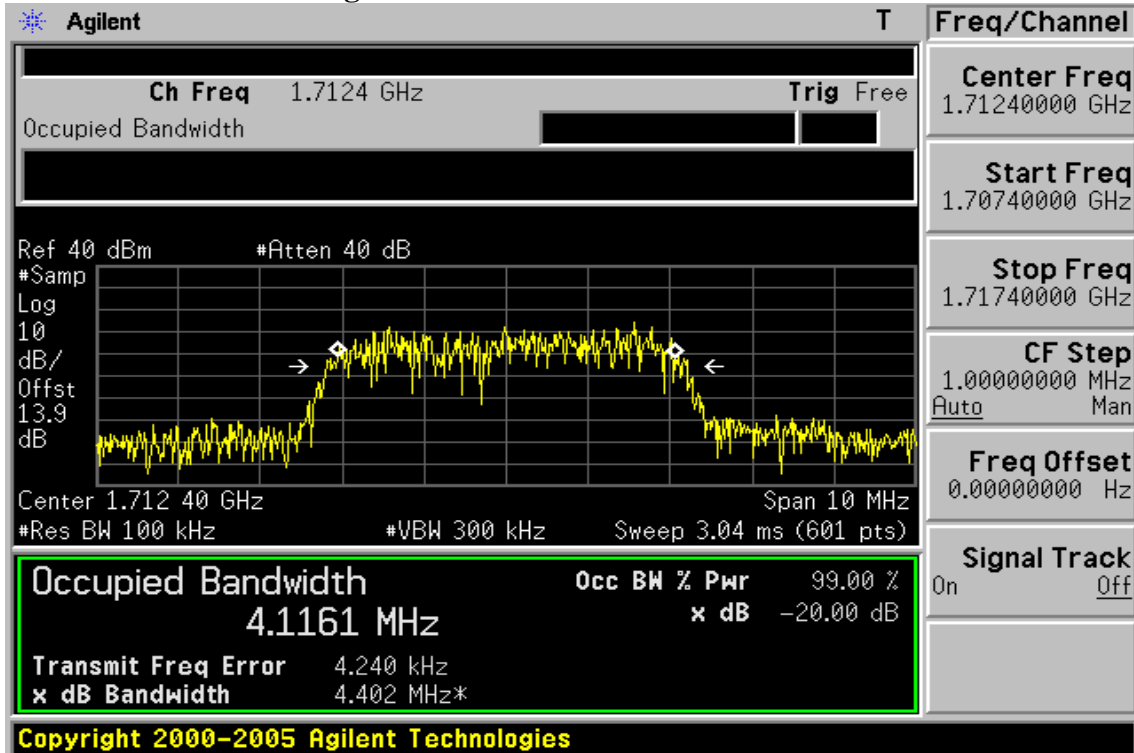
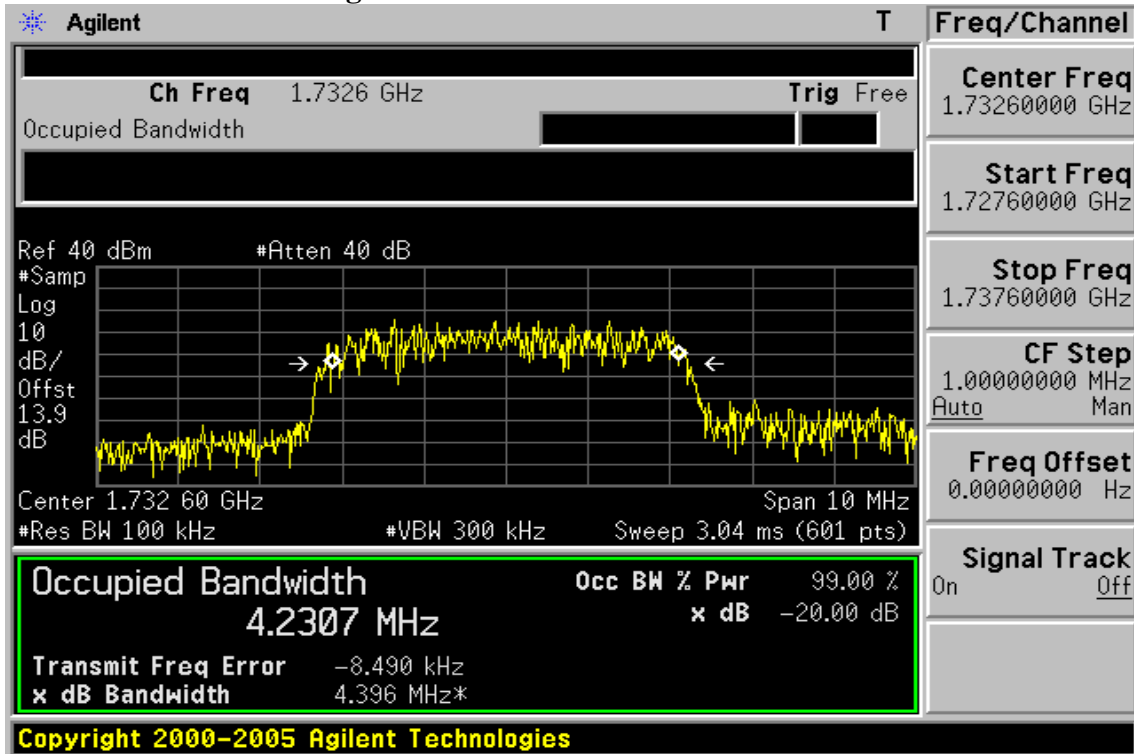


Figure 8-32: HSDPA IV Channel Mid



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Figure 8-33: HSDPA IV Channel High

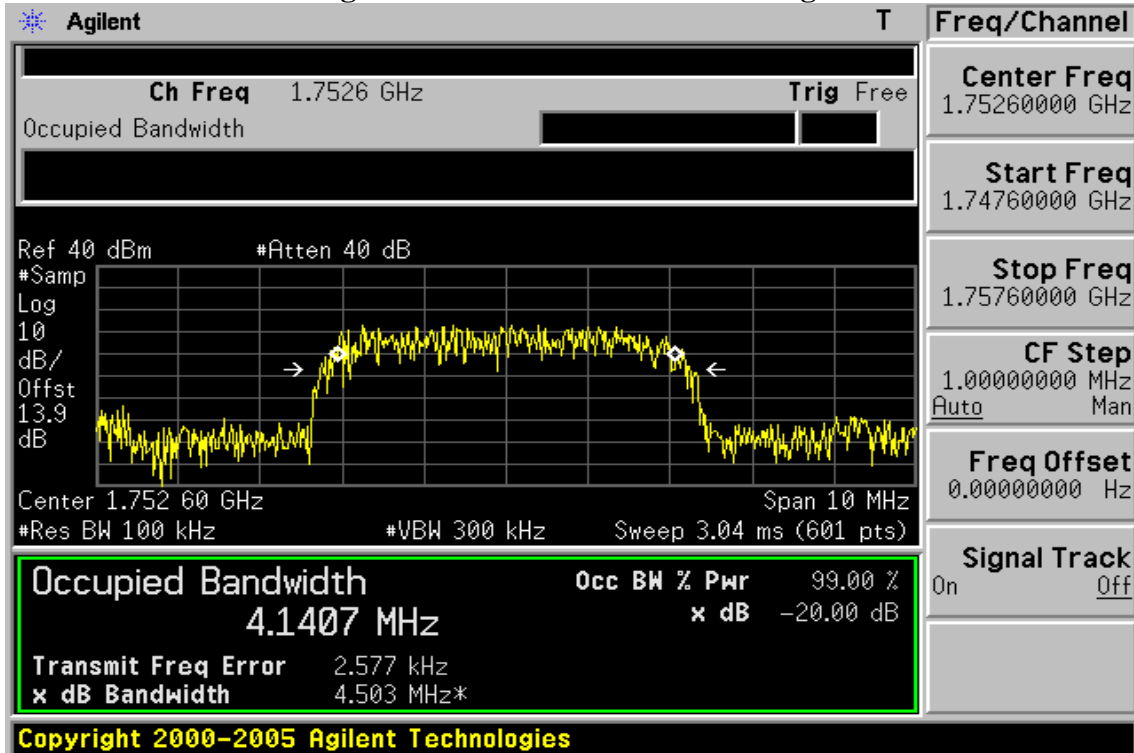
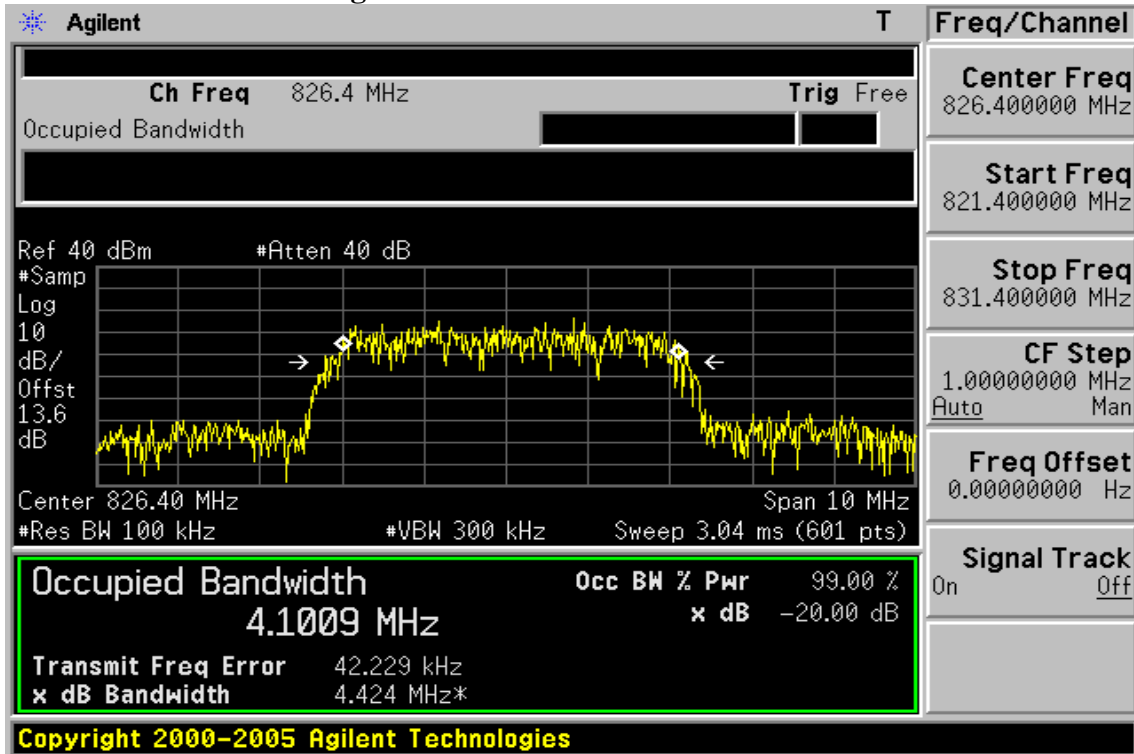


Figure 8-34: HSDPA V Channel Low



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Figure 8-35: HSDPA V Channel Mid

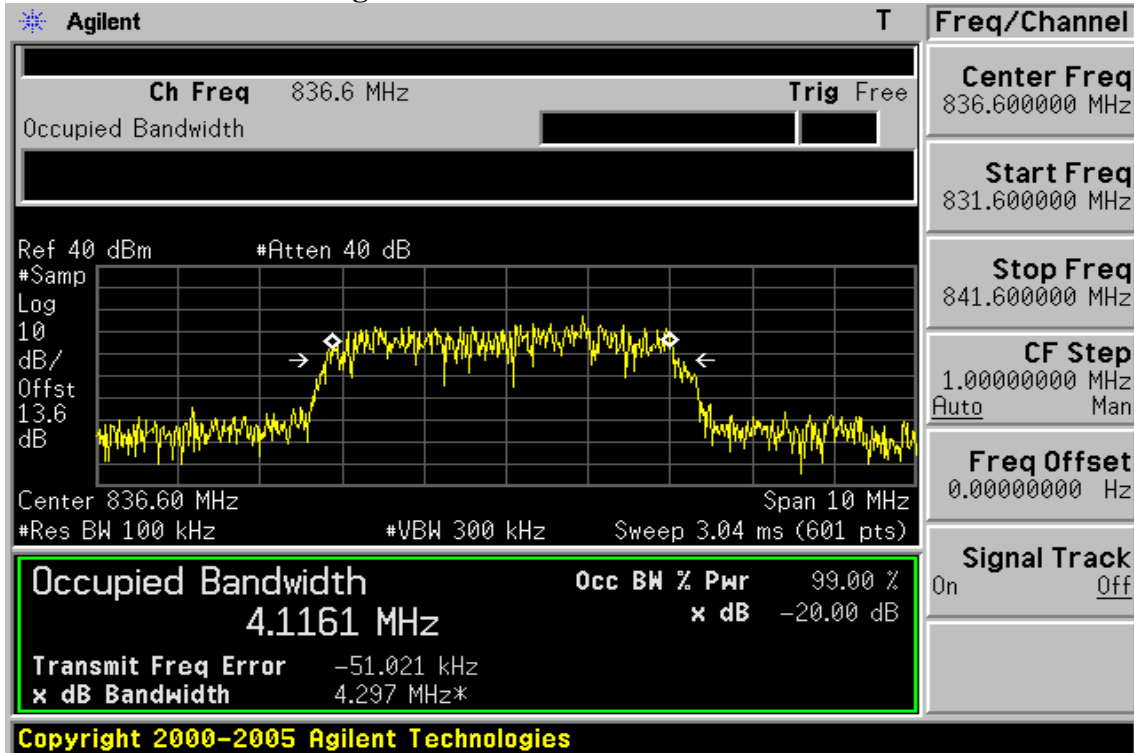
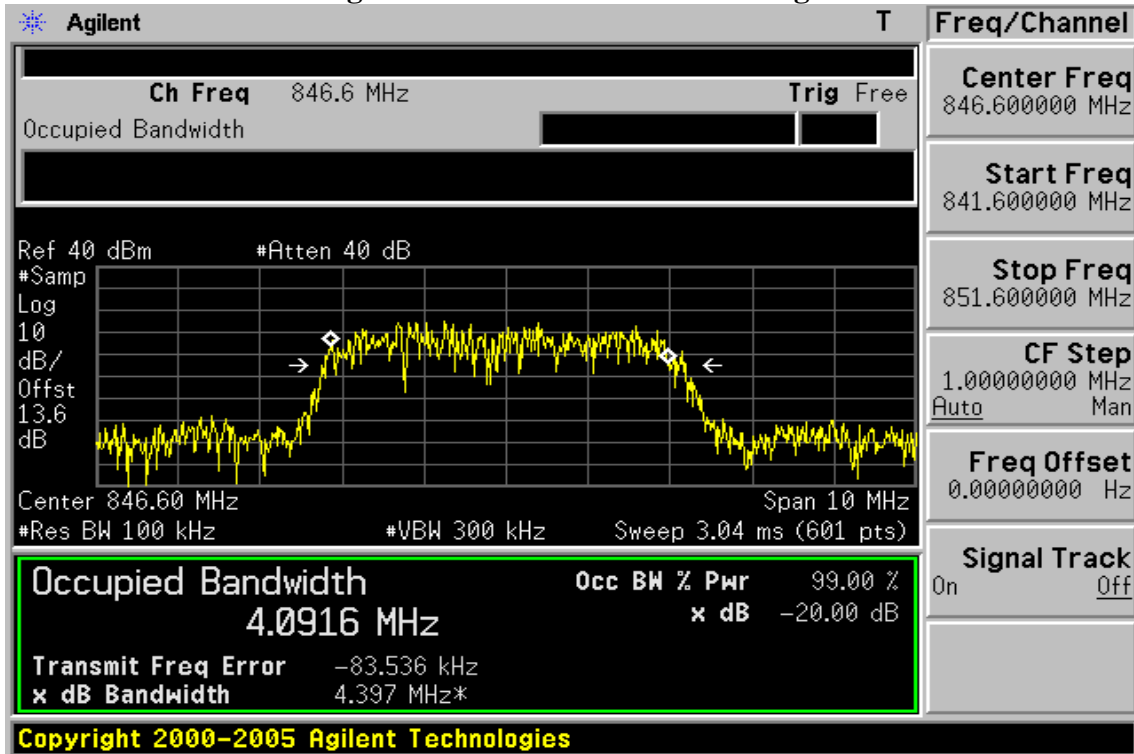


Figure 8-36: HSDPA V Channel High



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Figure 8-37: HSUPA II Channel Low

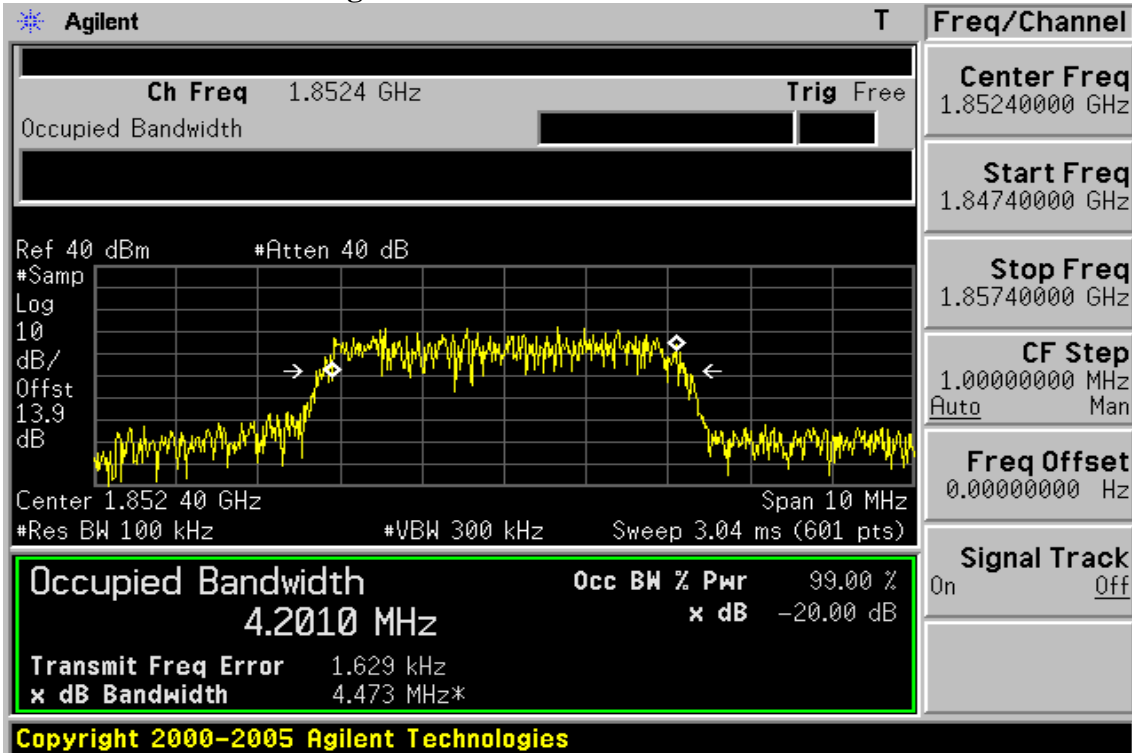
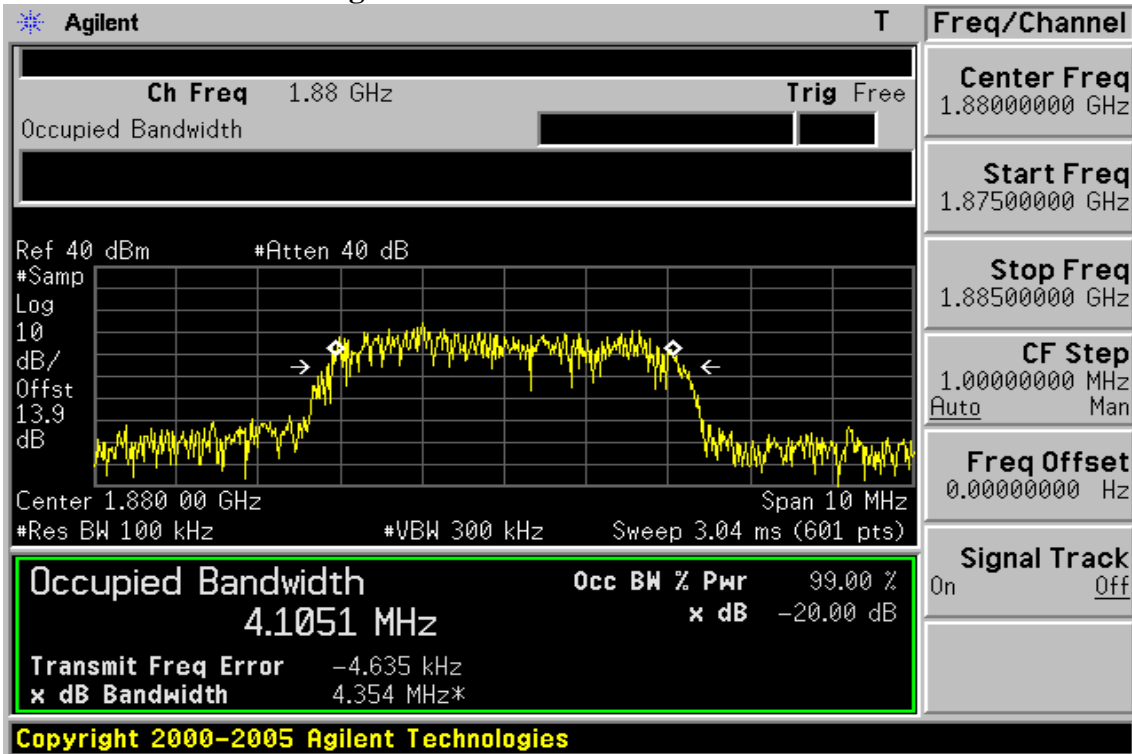


Figure 8-38: HSUPA II Channel Mid



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Figure 8-39: HSUPA II Channel High

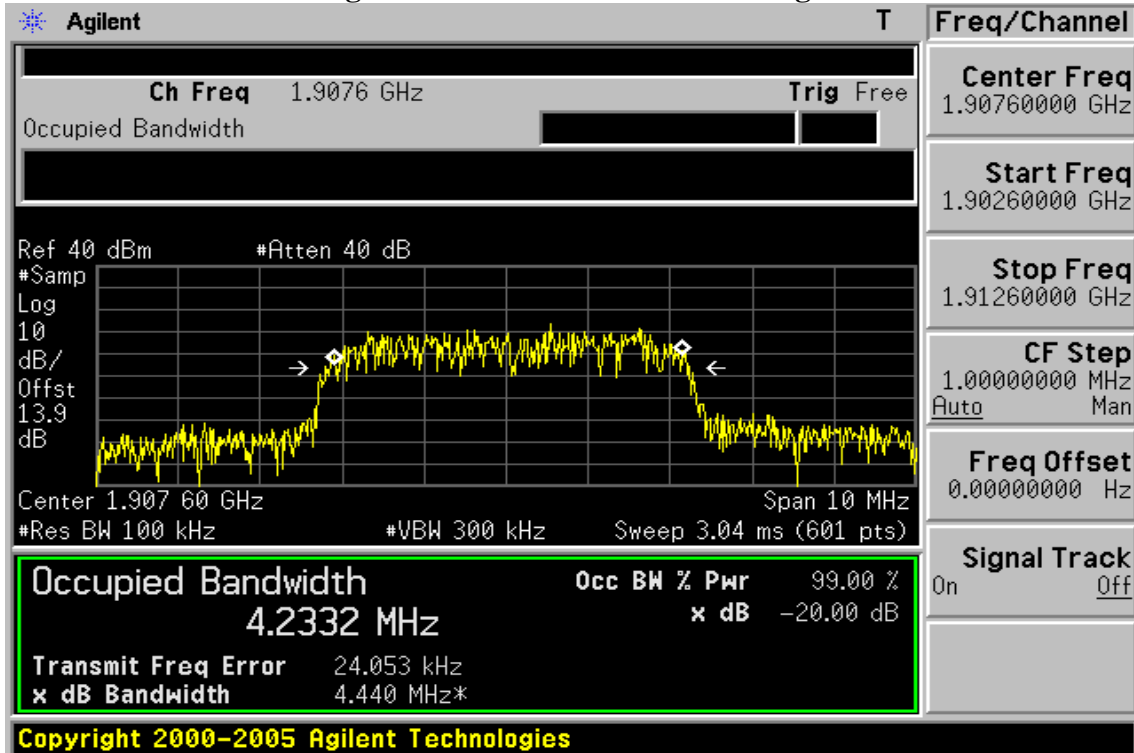
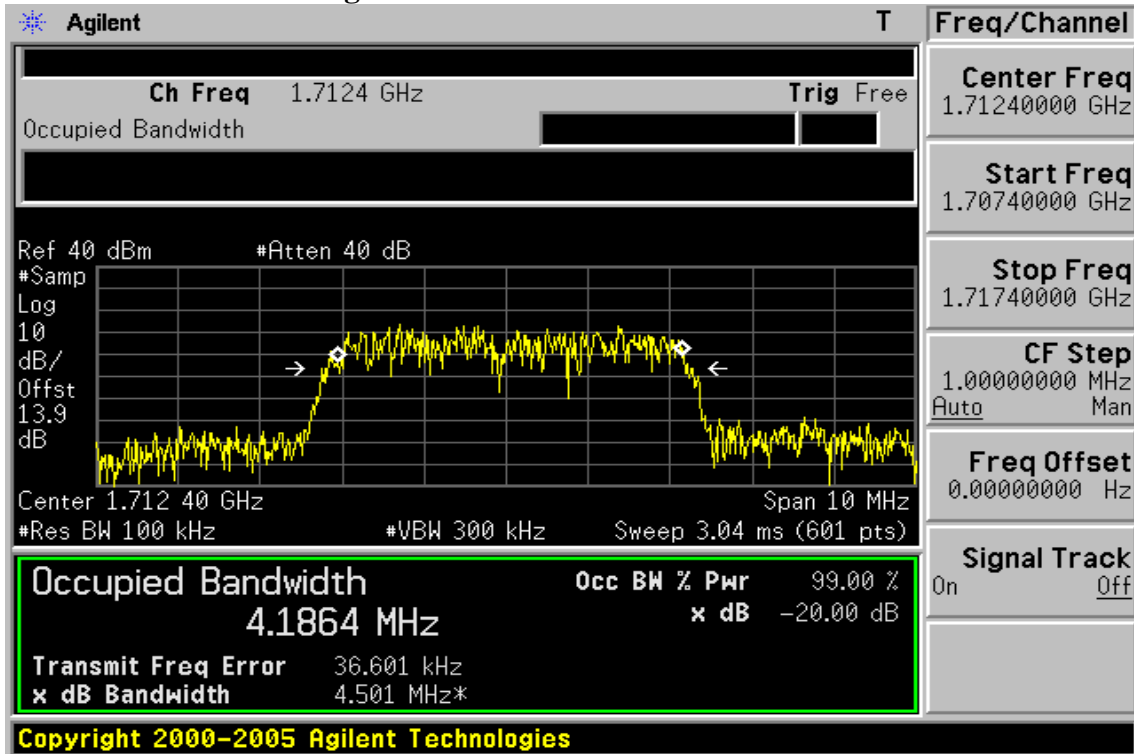


Figure 8-40: HSUPA IV Channel Low



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Figure 8-41: HSUPA IV Channel Mid

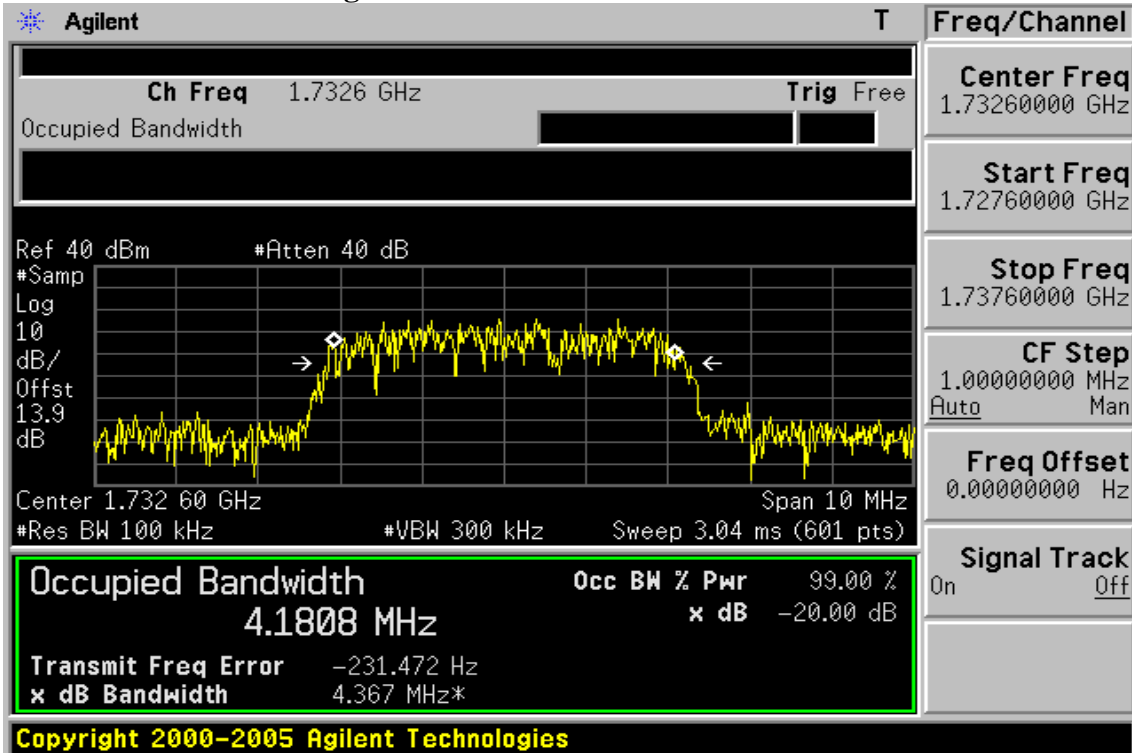
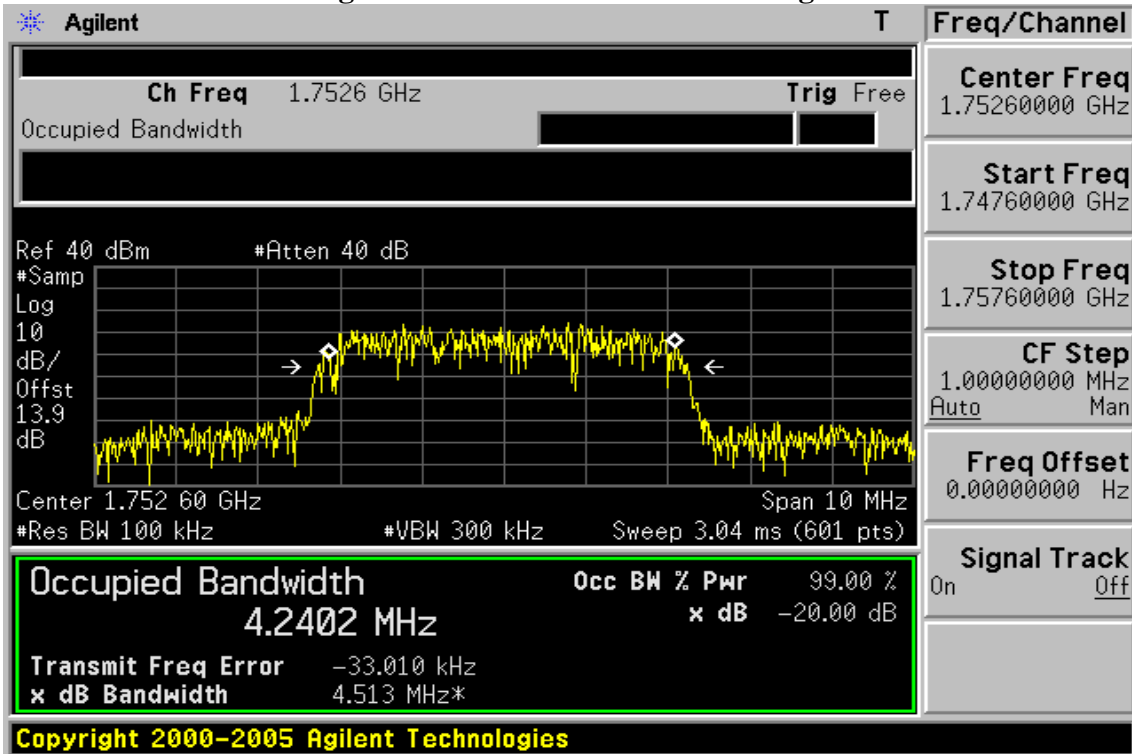


Figure 8-42: HSUPA IV Channel High



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Figure 8-43: HSUPA V Channel Low

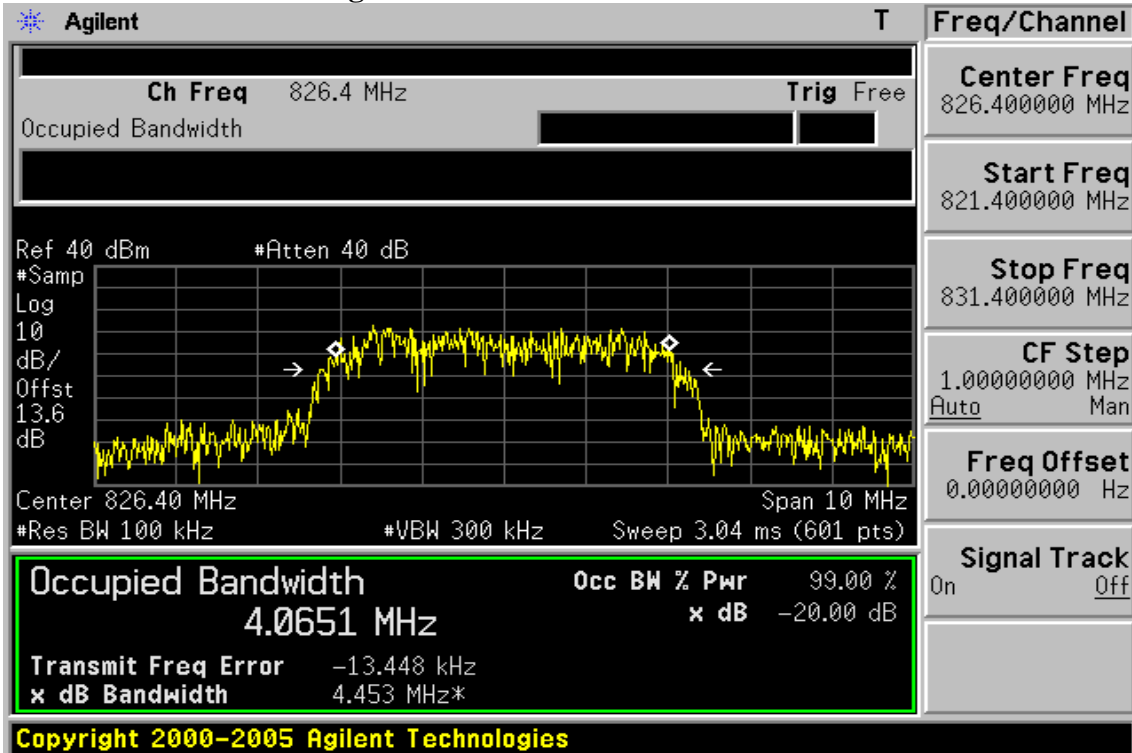
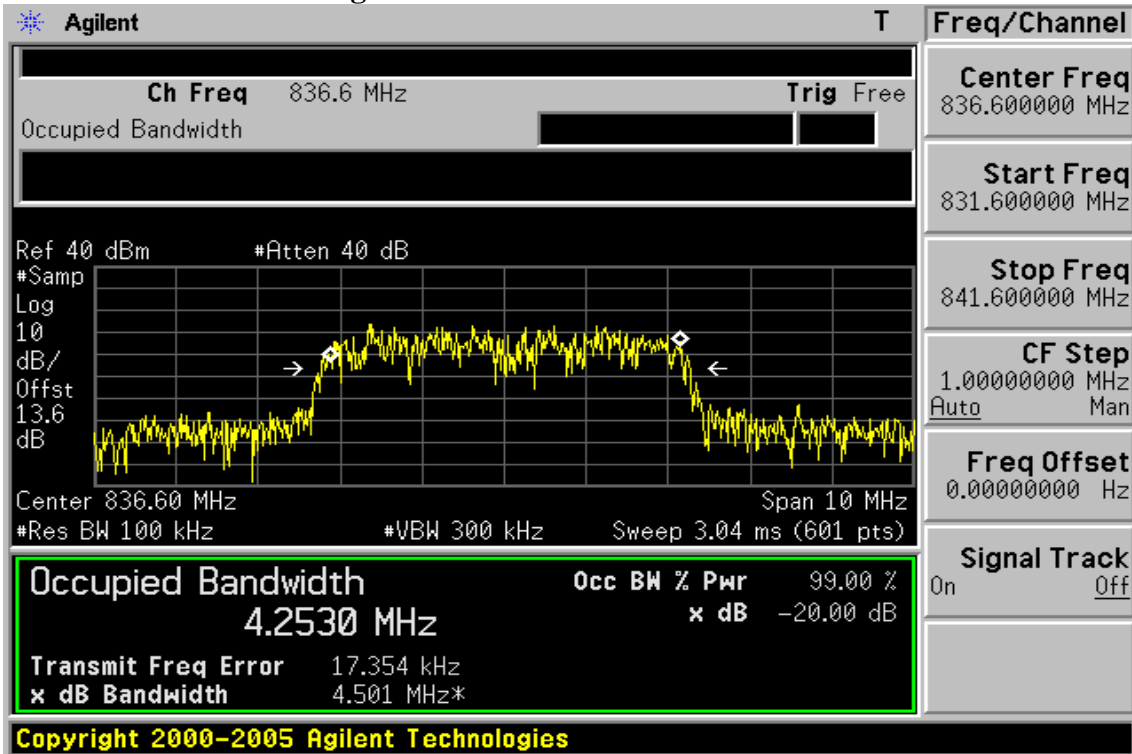


Figure 8-44: HSUPA V Channel Mid



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Figure 8-45: HSUPA V Channel High

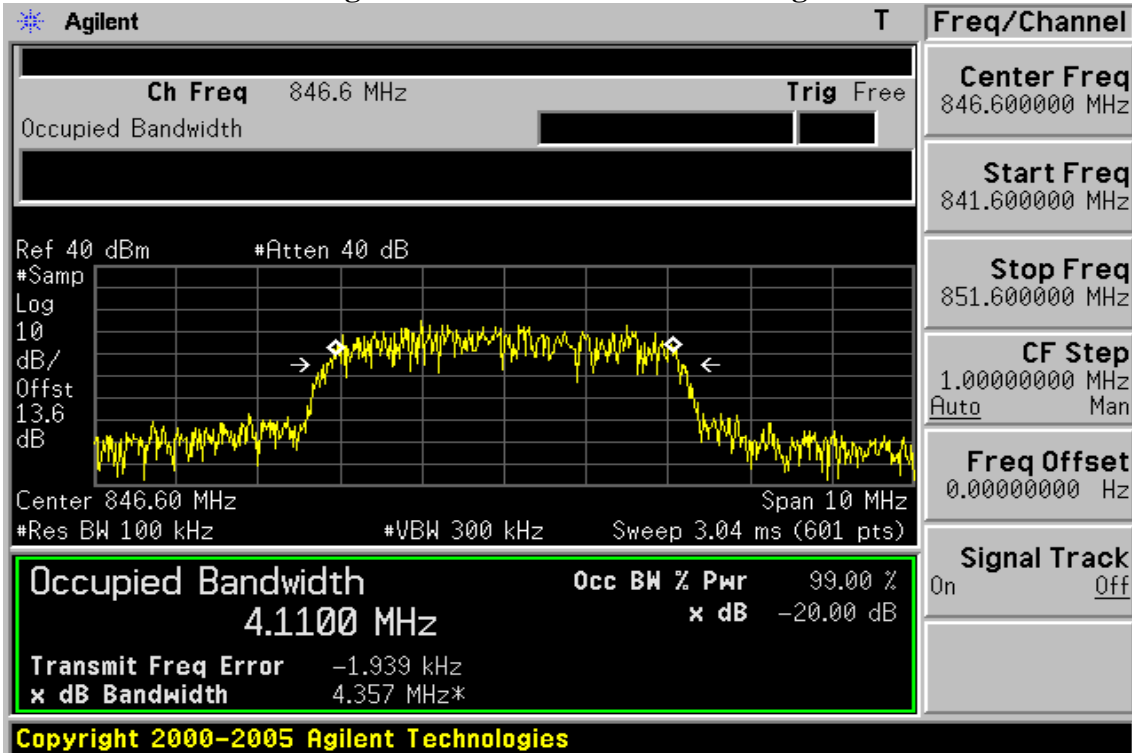
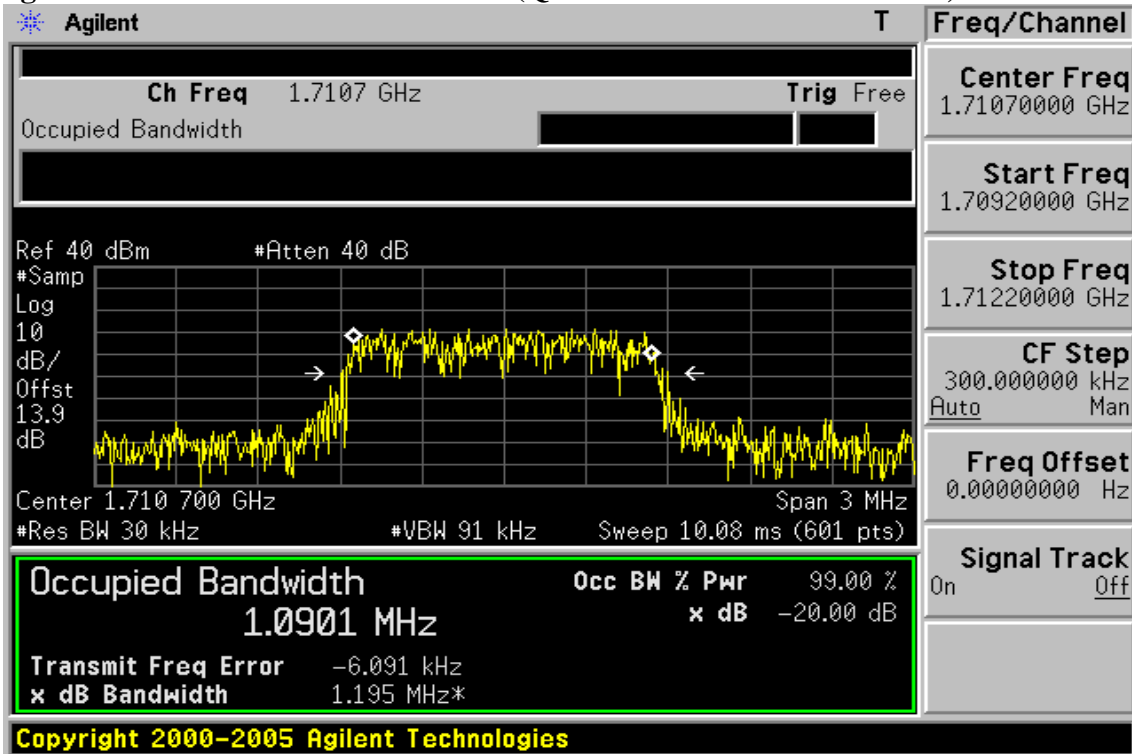


Figure 8-46: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Low



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Figure 8-47: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Mid

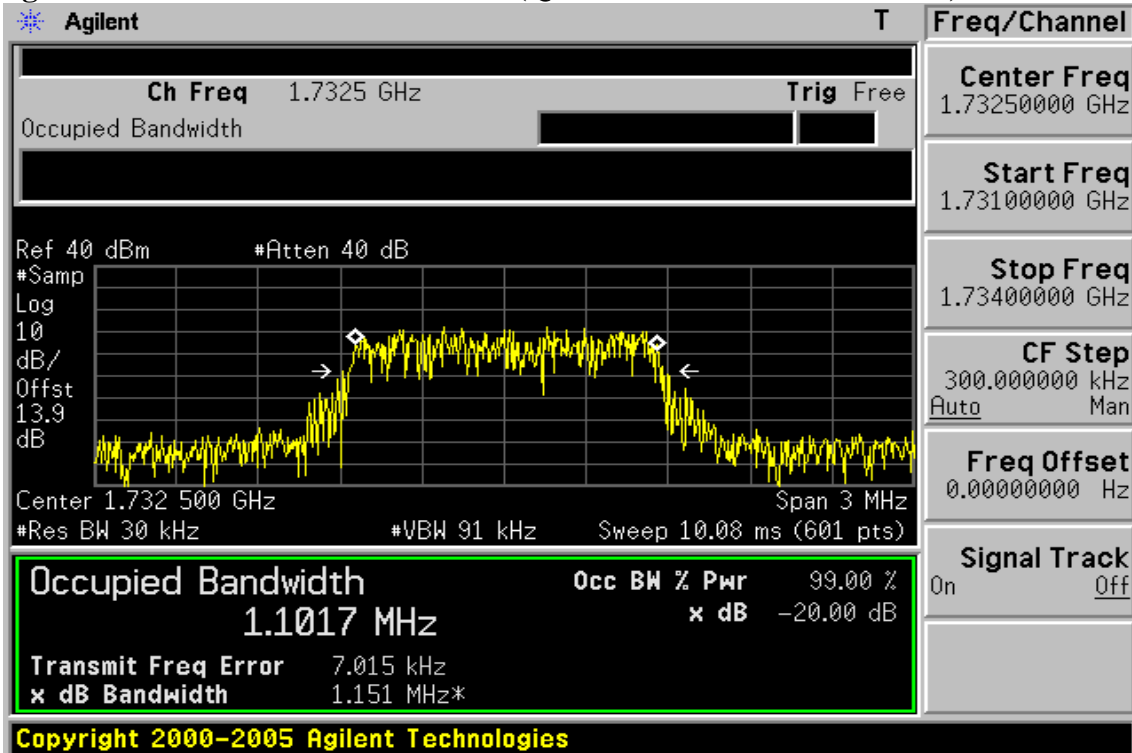
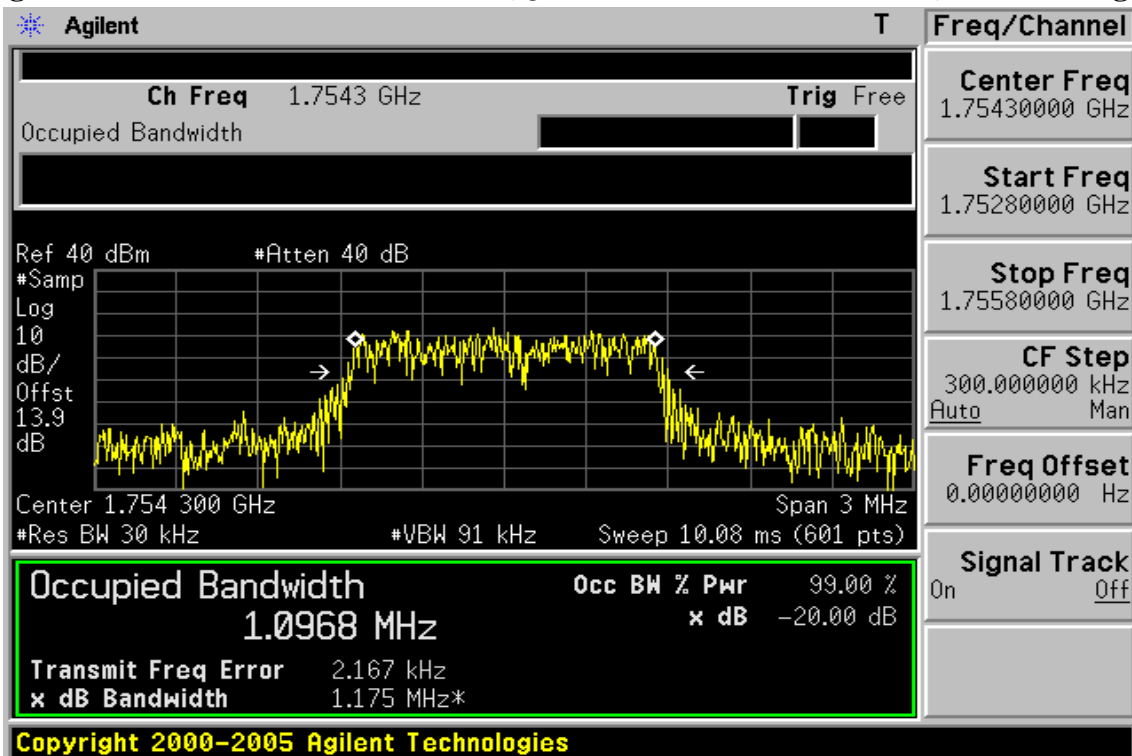


Figure 8-48: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel High



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Figure 8-49: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Low

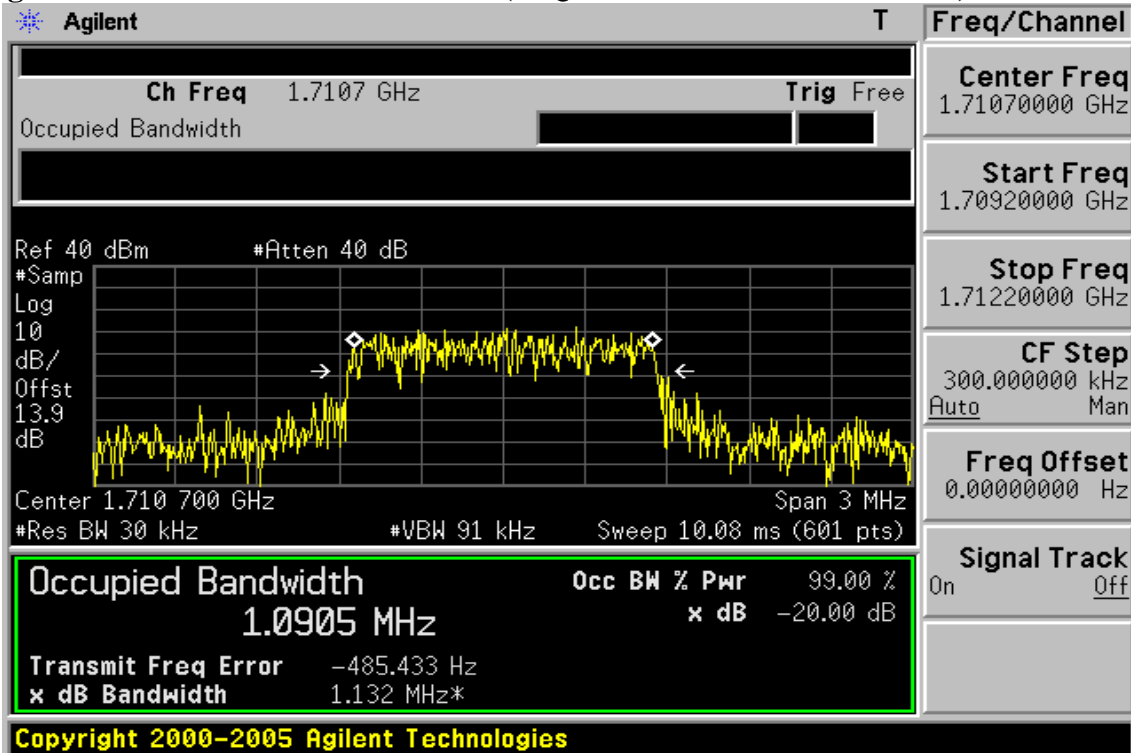
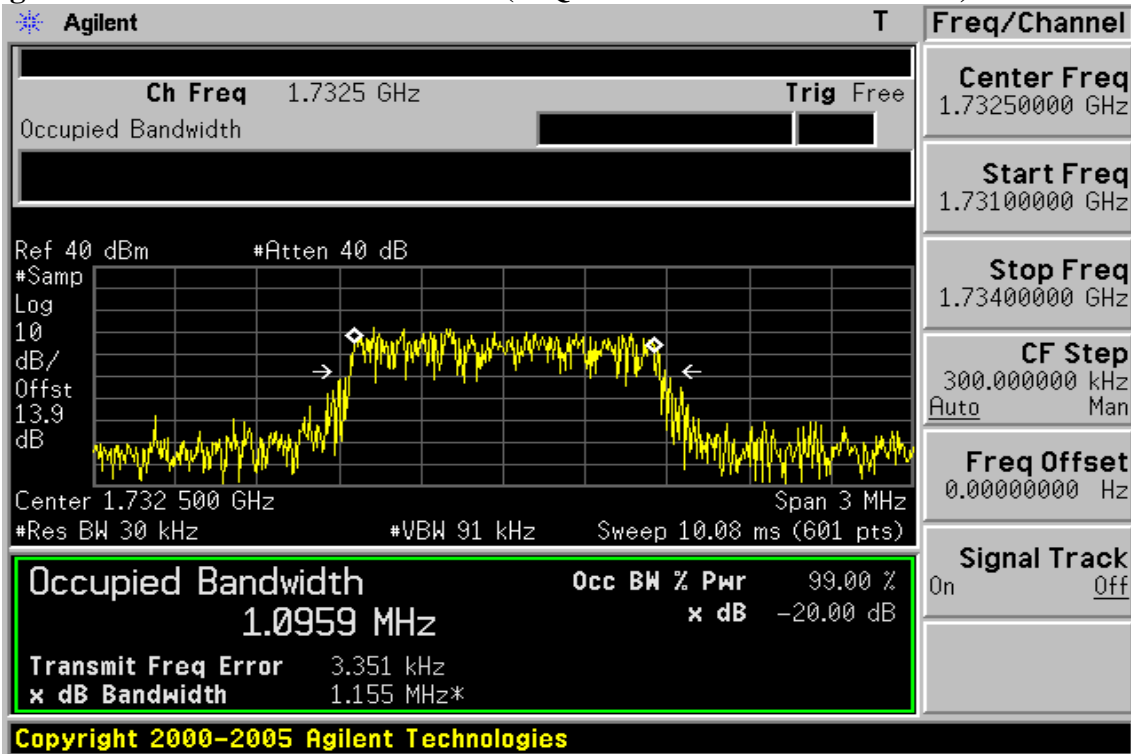


Figure 8-50: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Mid



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Figure 8-51: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel High

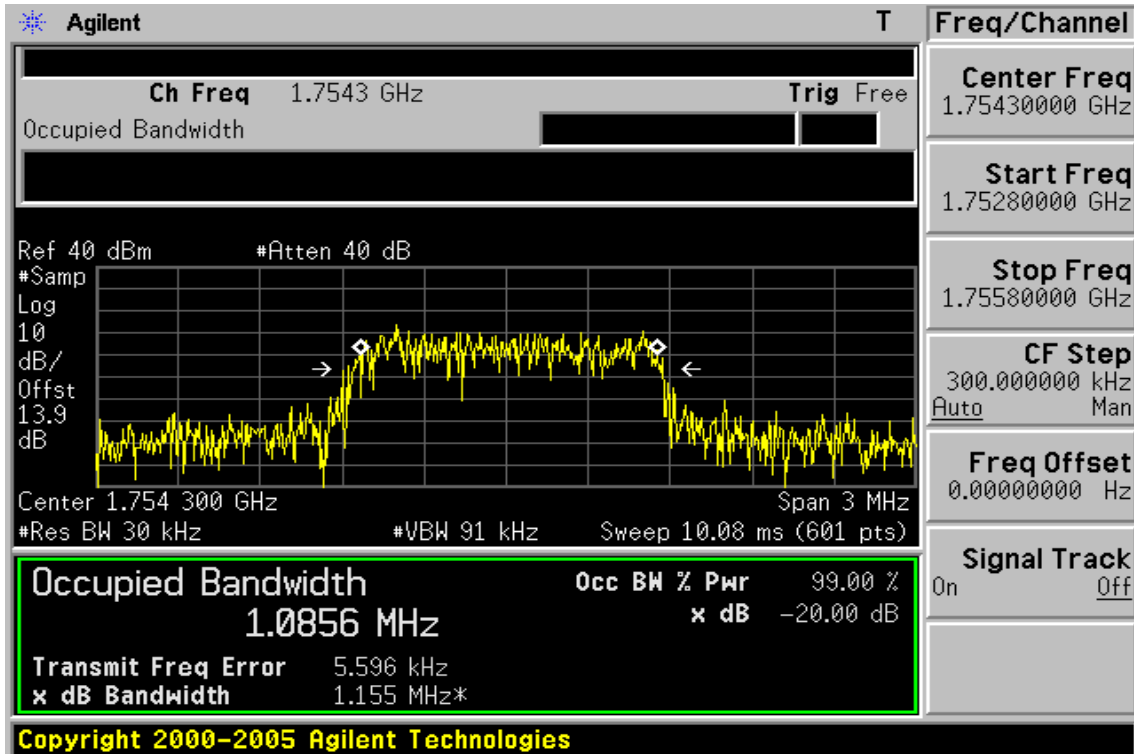
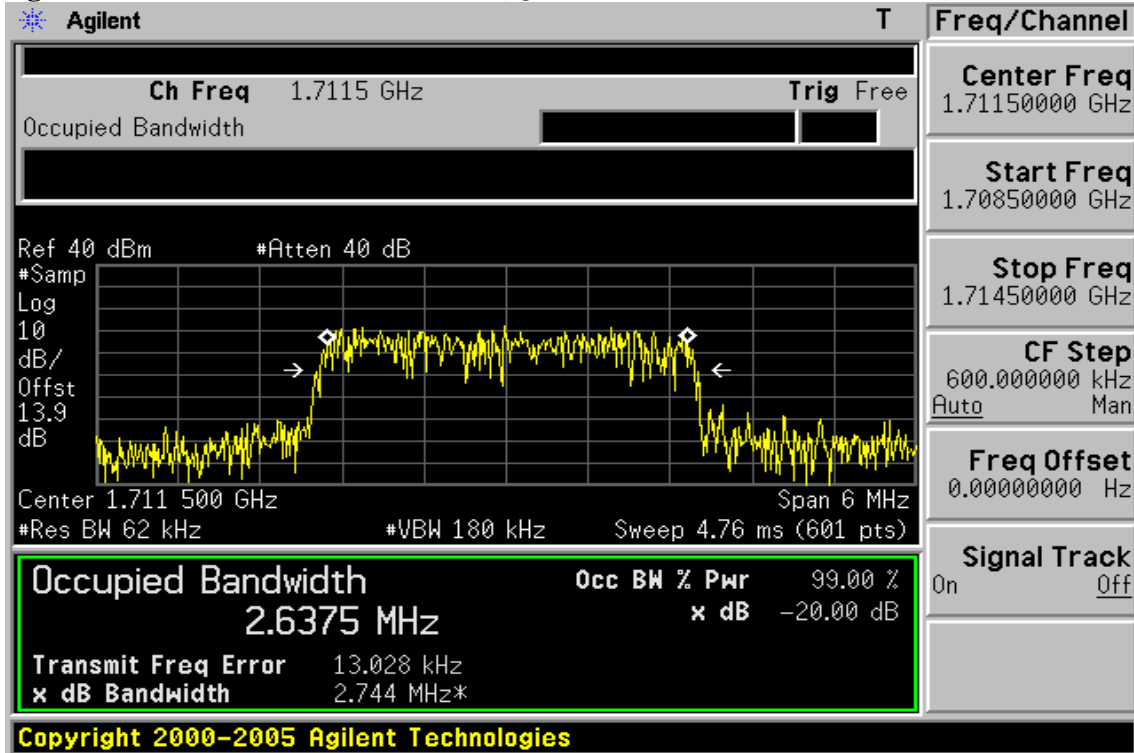


Figure 8-52: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Low



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Figure 8-53: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Mid

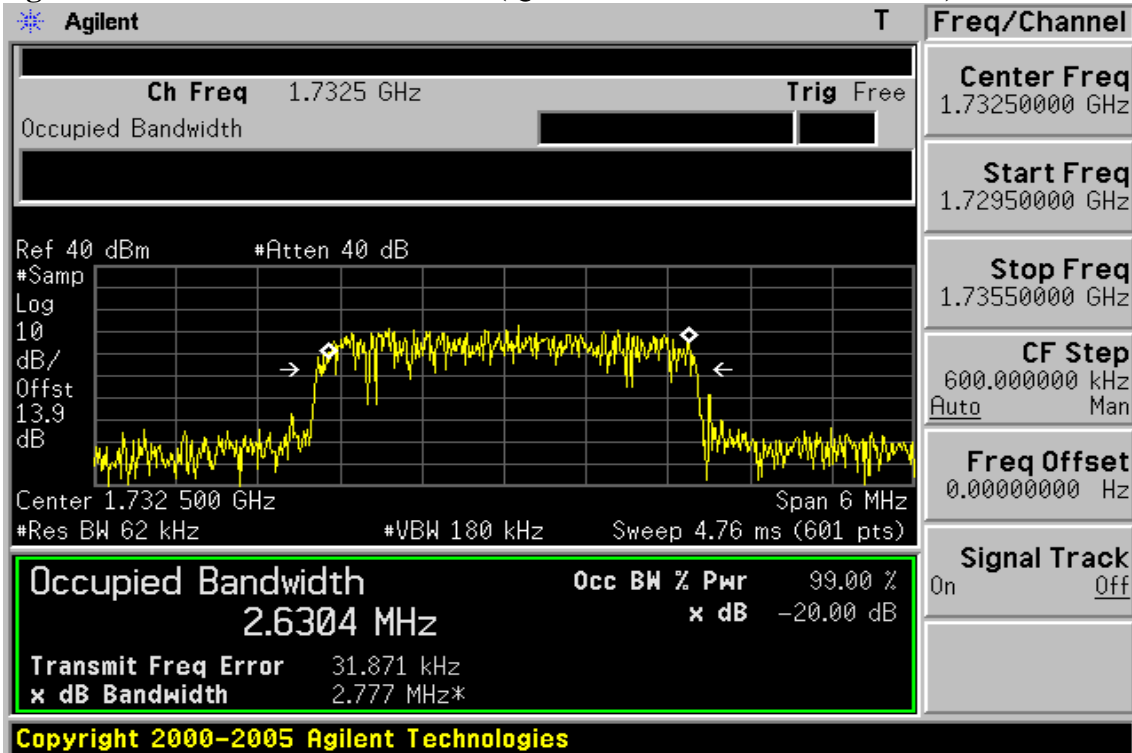
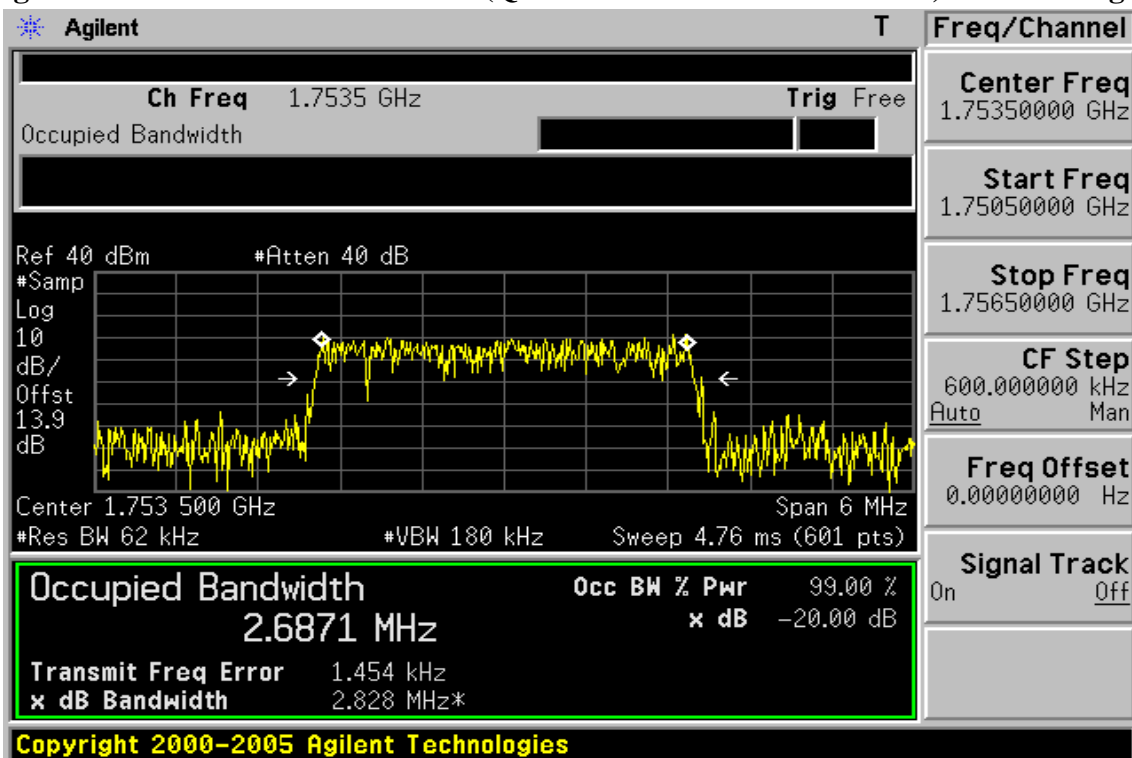


Figure 8-54: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel High



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Figure 8-55: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Low

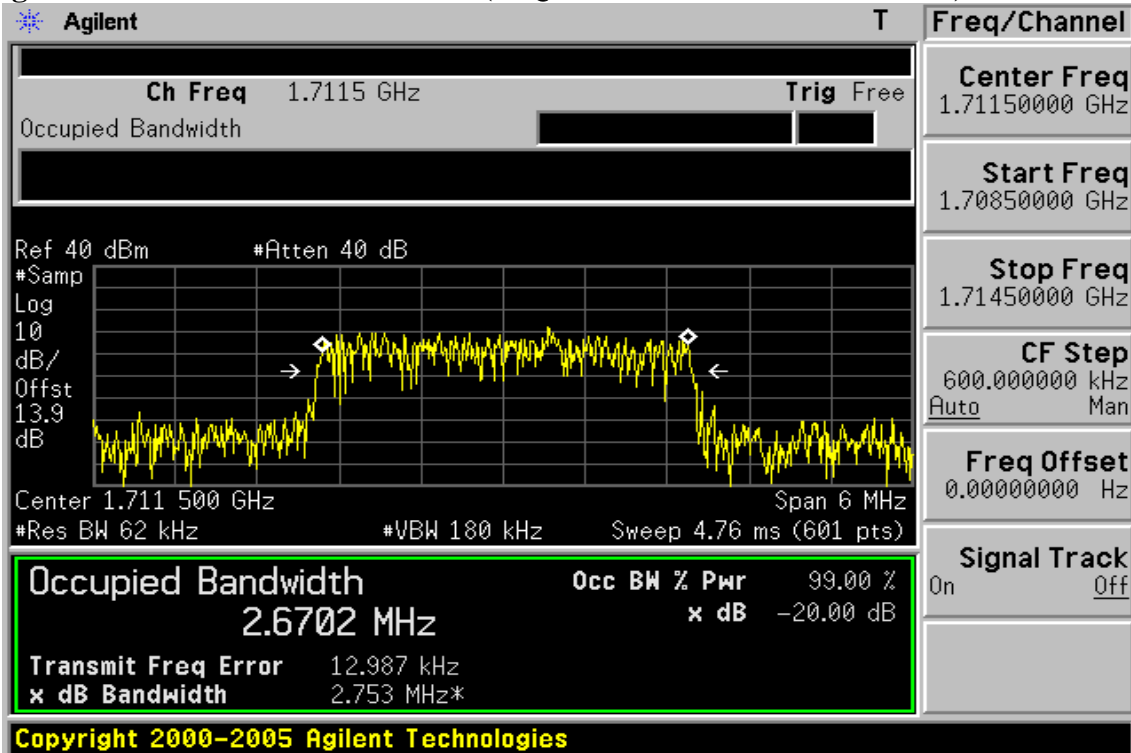
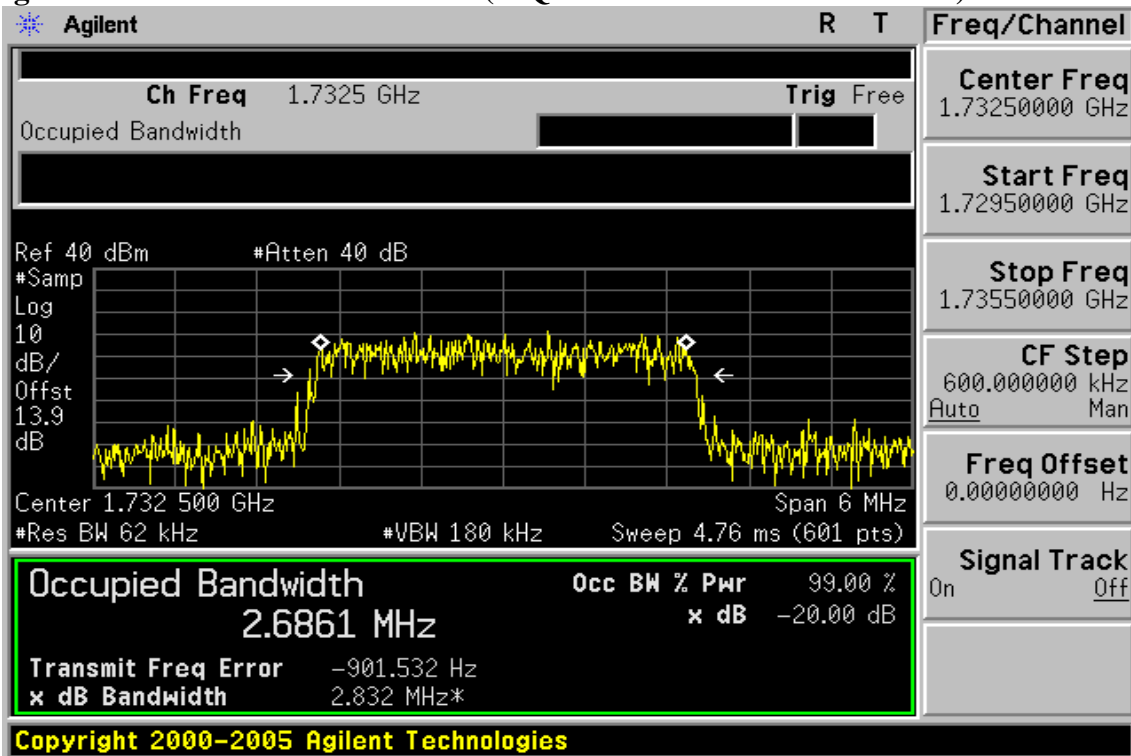


Figure 8-56: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Mid



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Figure 8-57: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel High

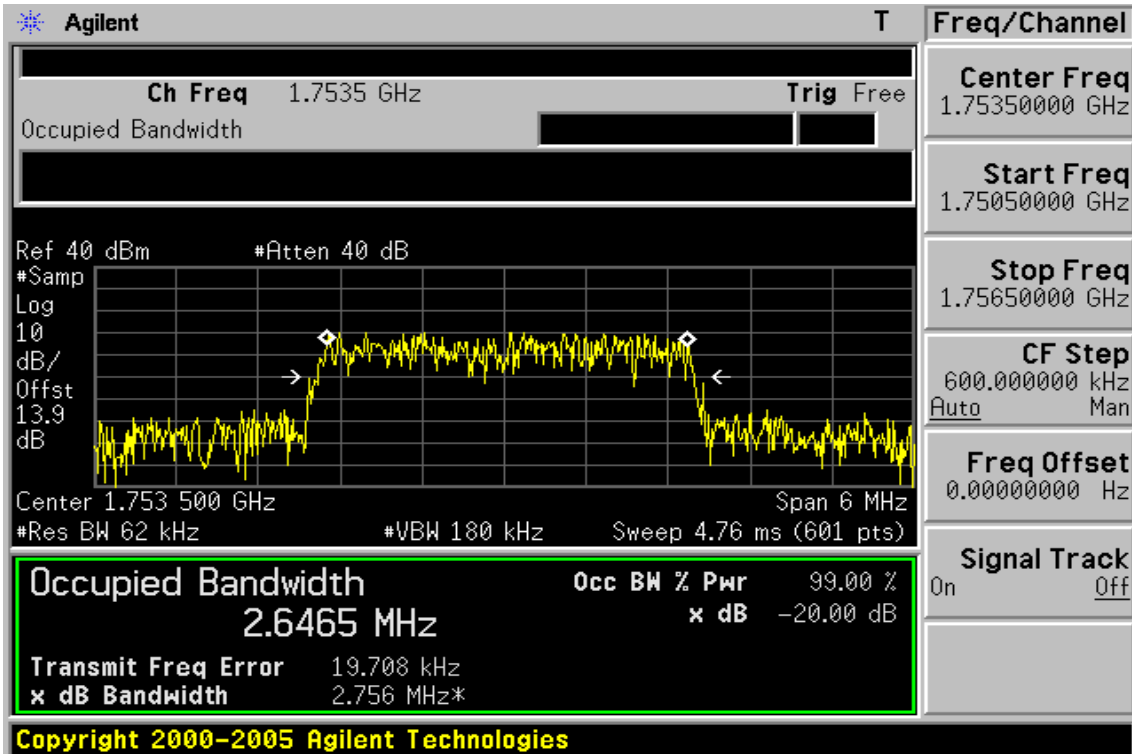
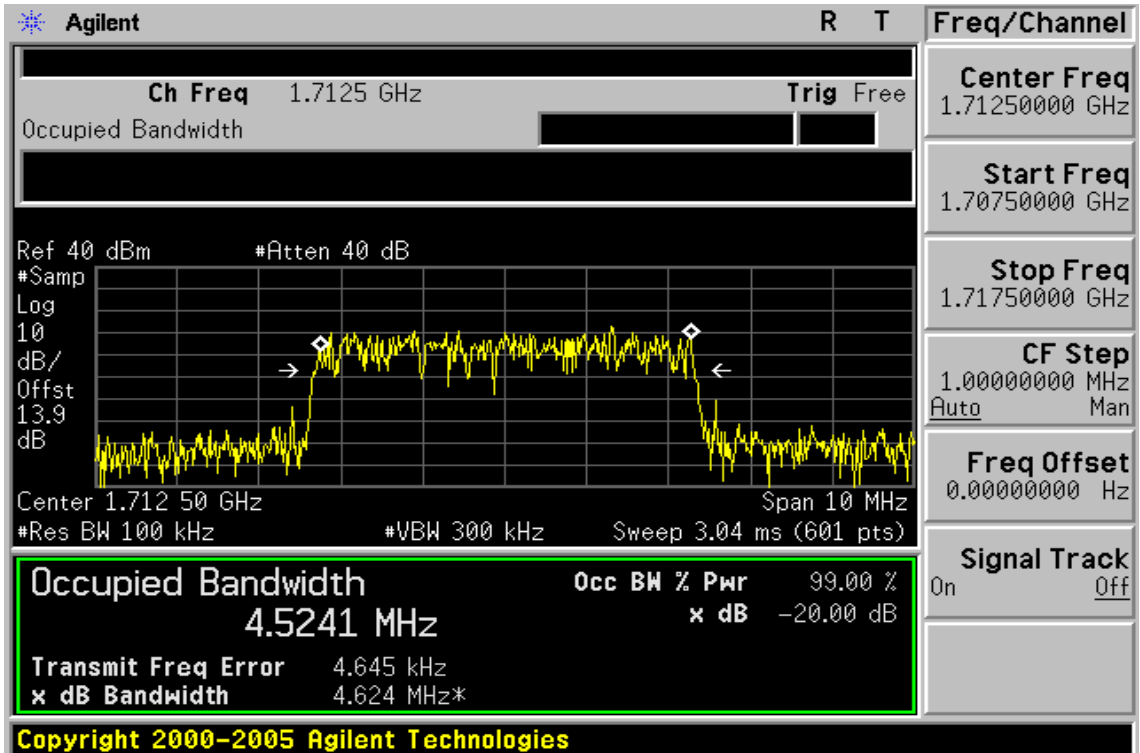


Figure 8-58: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Low



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Figure 8-59: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Mid

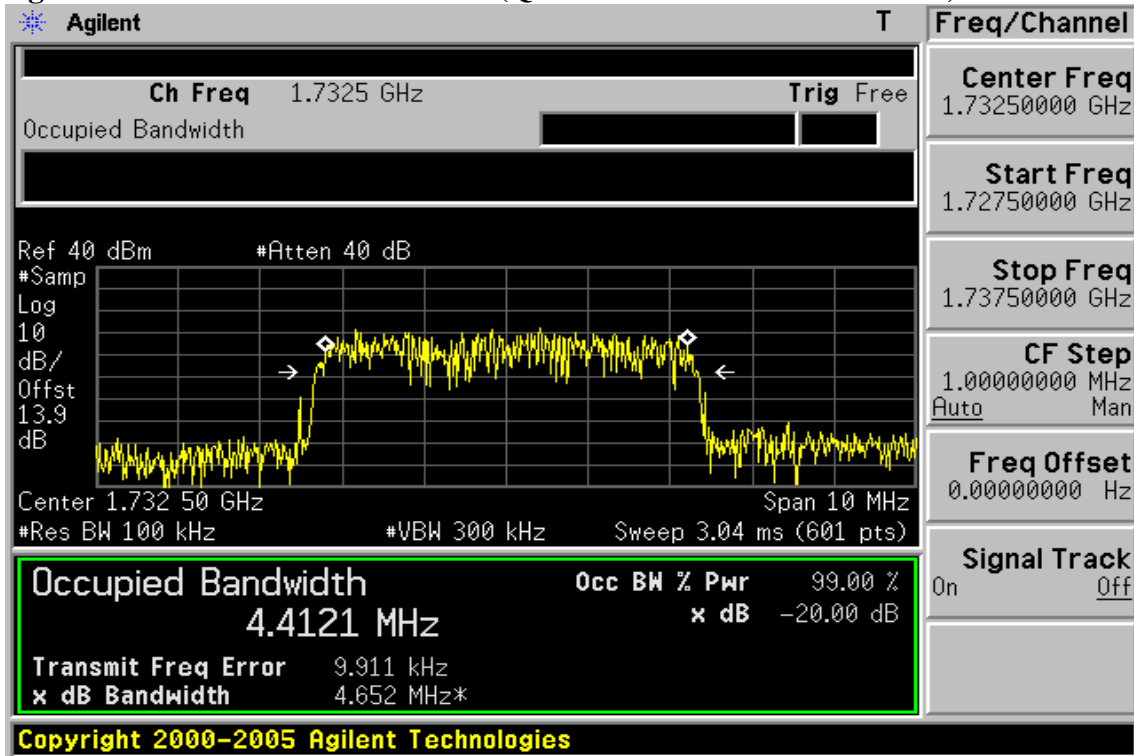
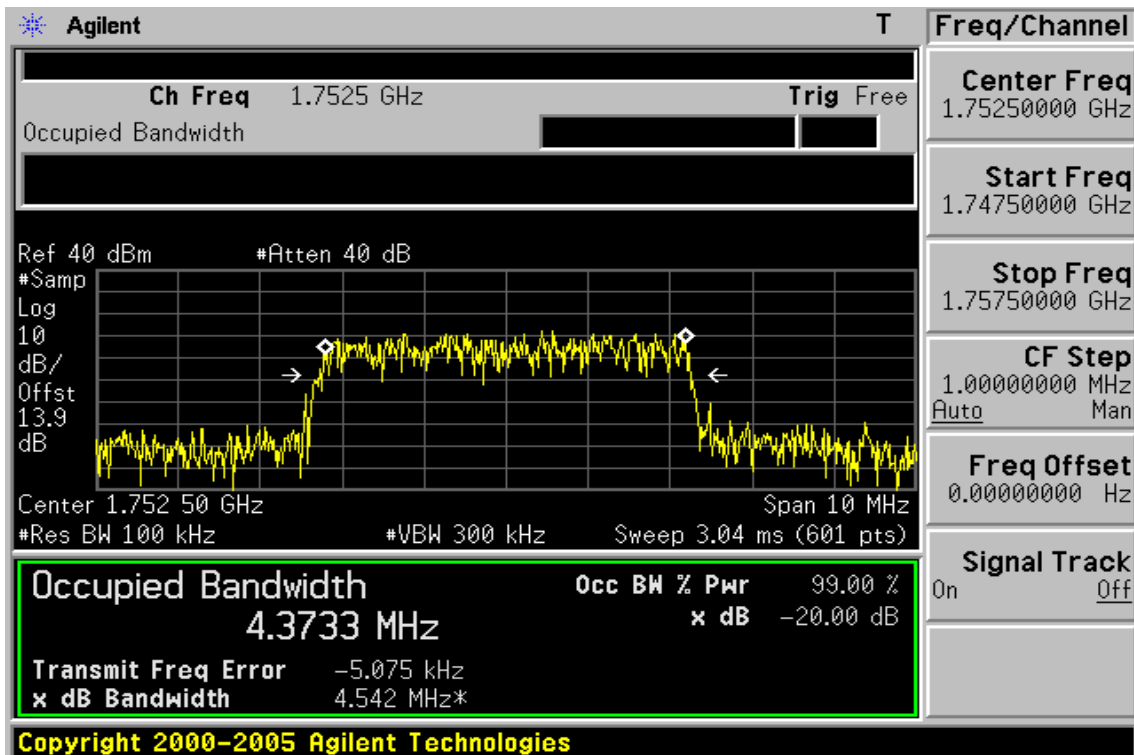


Figure 8-60: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel High



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Figure 8-61: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Low

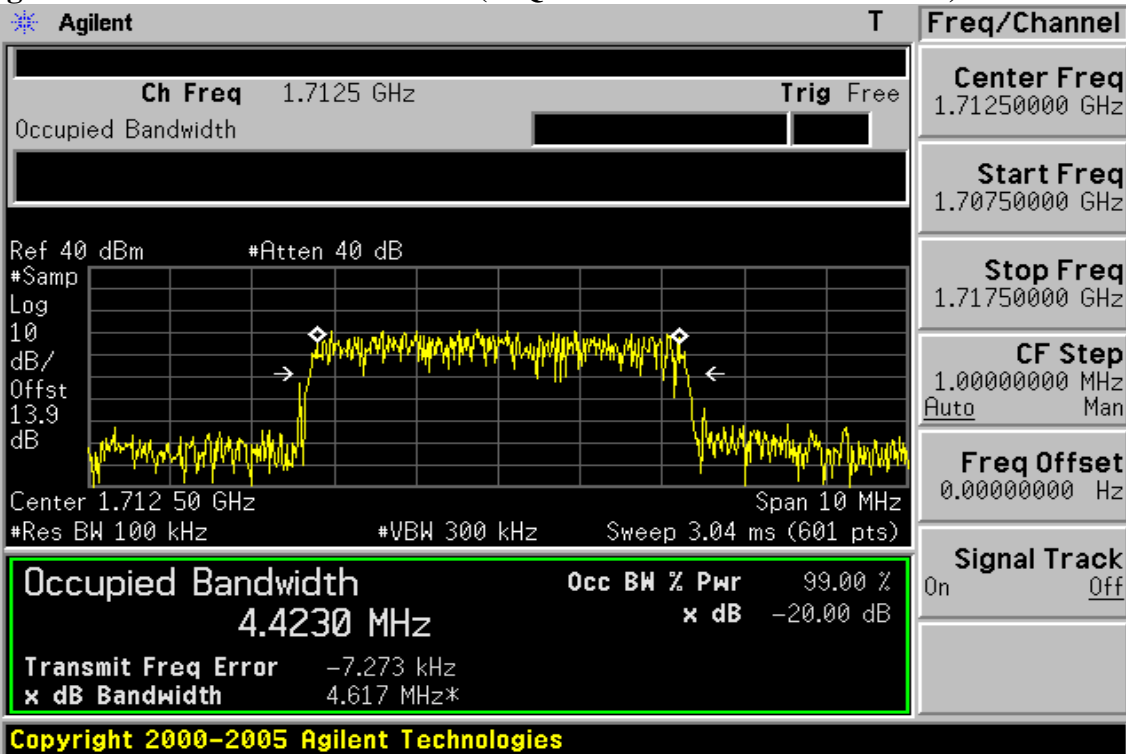
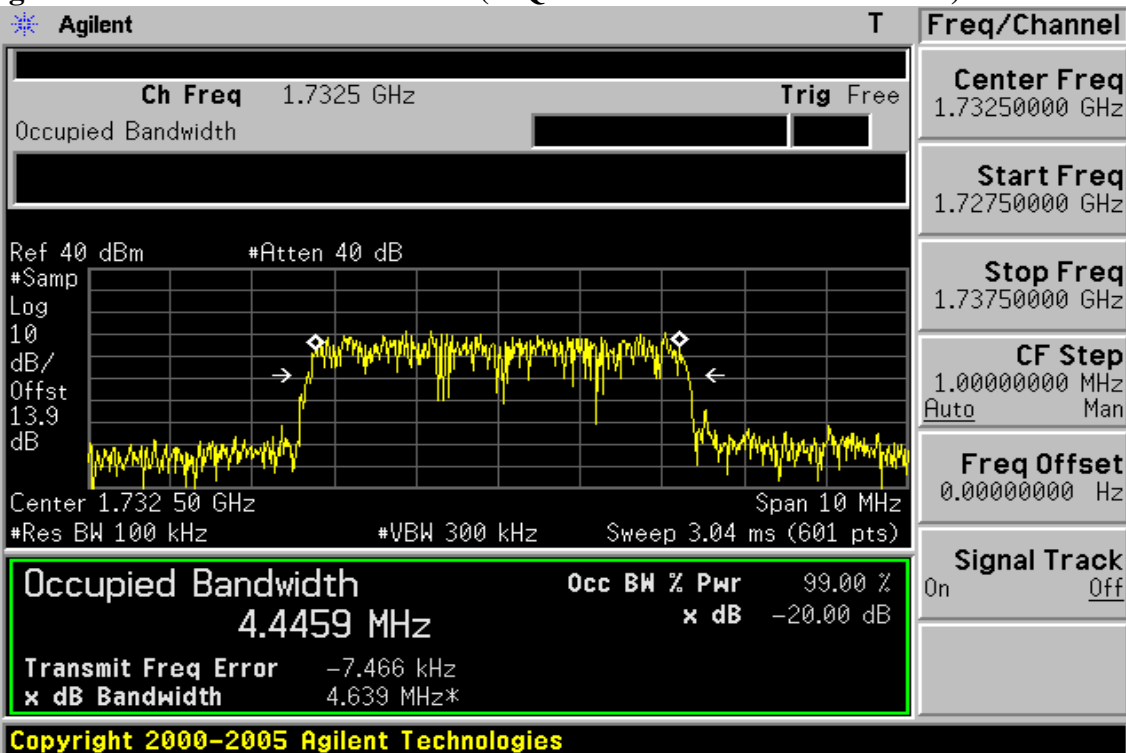


Figure 8-62: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Mid



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Figure 8-63: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel High

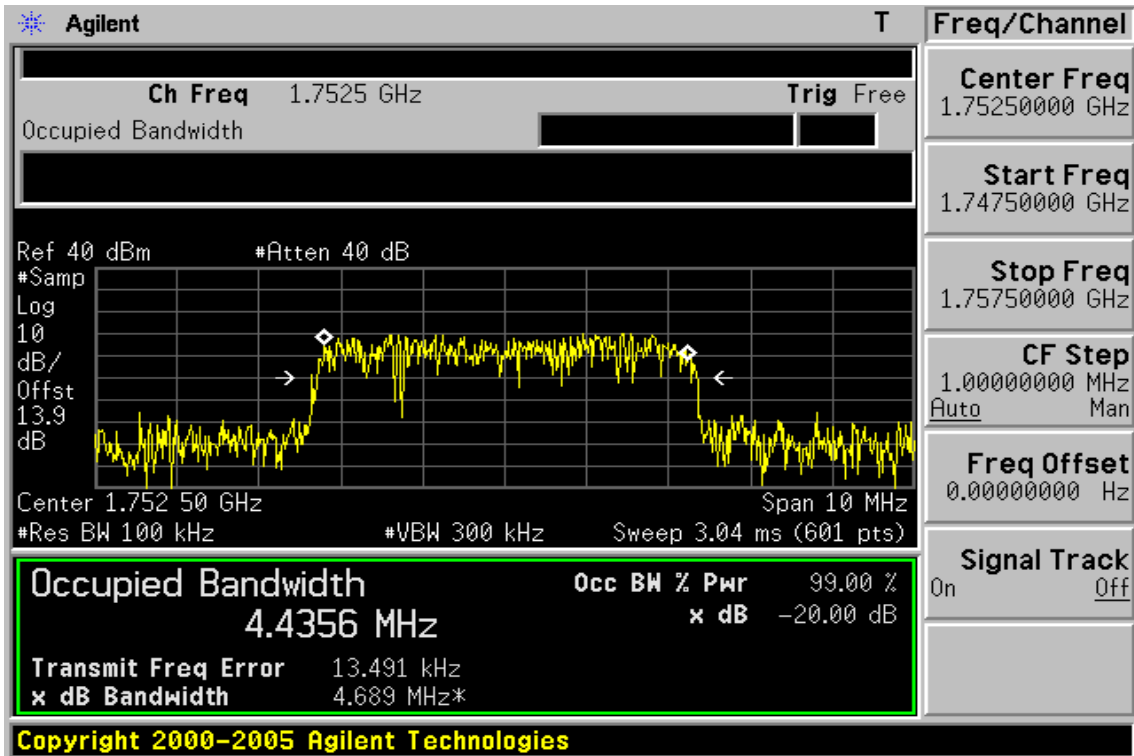
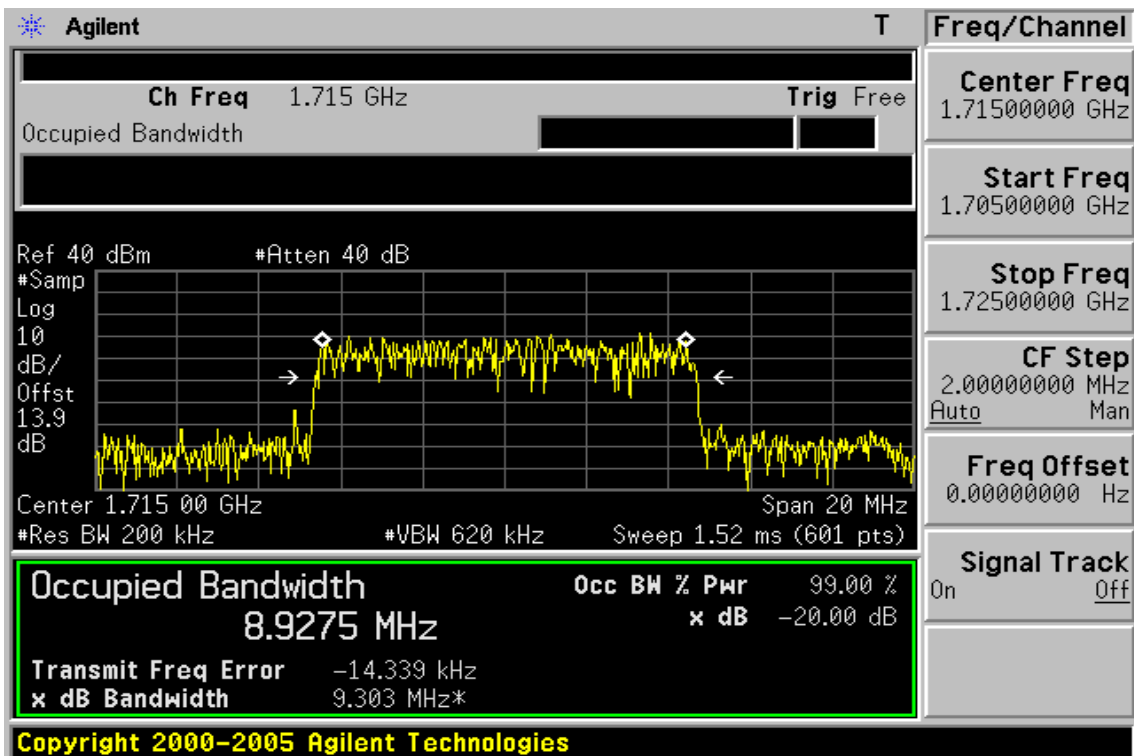


Figure 8-64: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Low



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Figure 8-65: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Mid

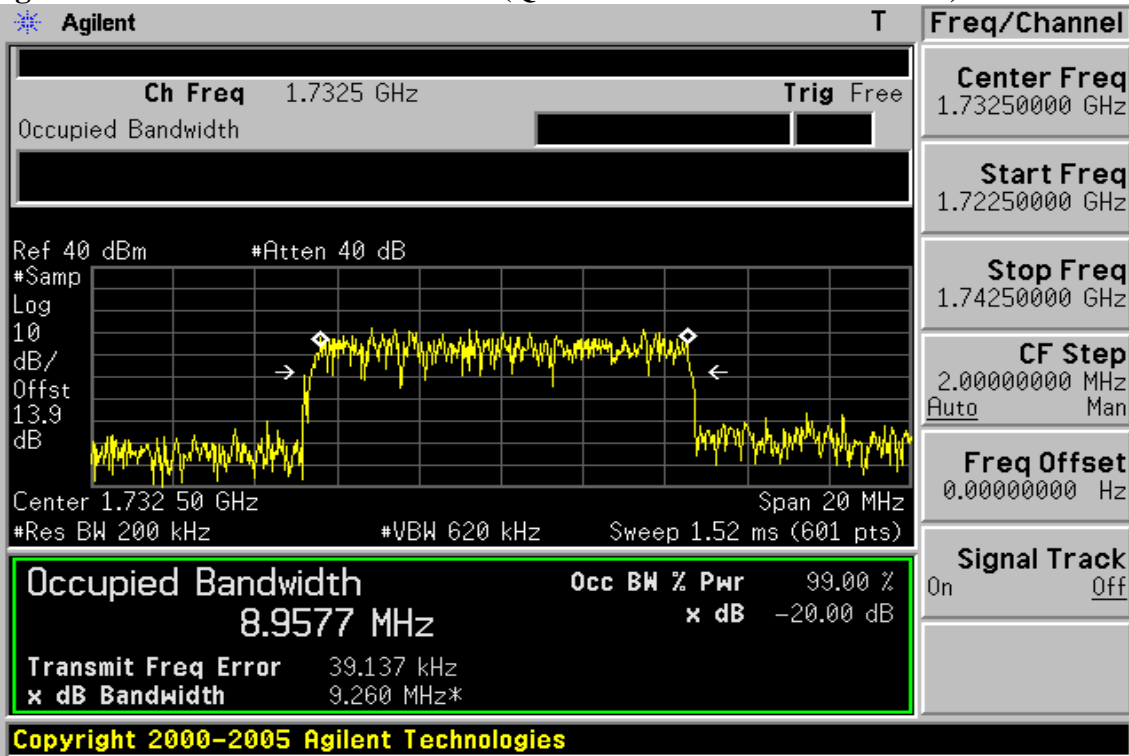
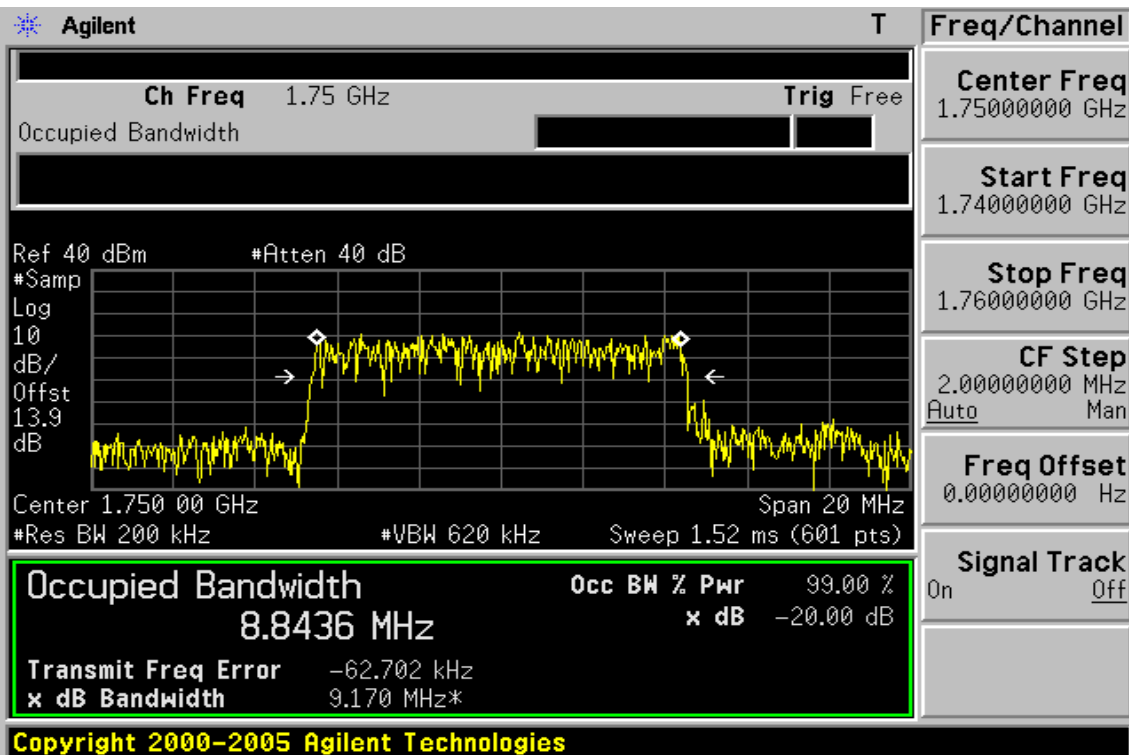


Figure 8-66: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel High



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Figure 8-67: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Low

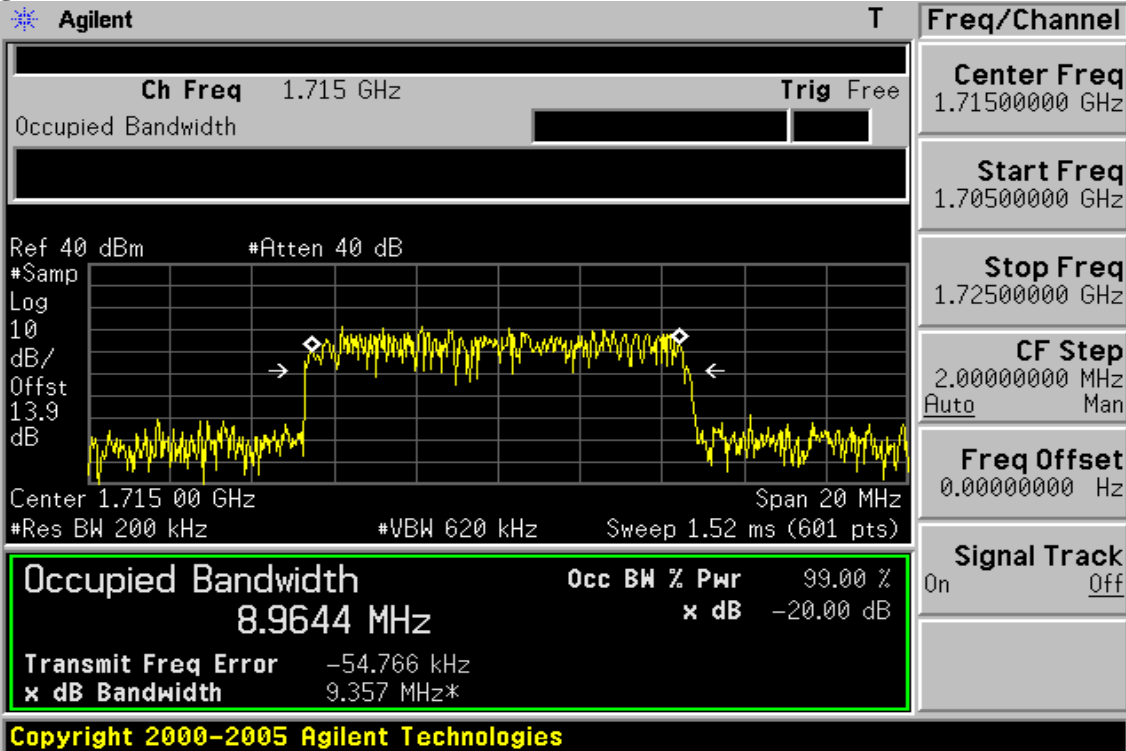
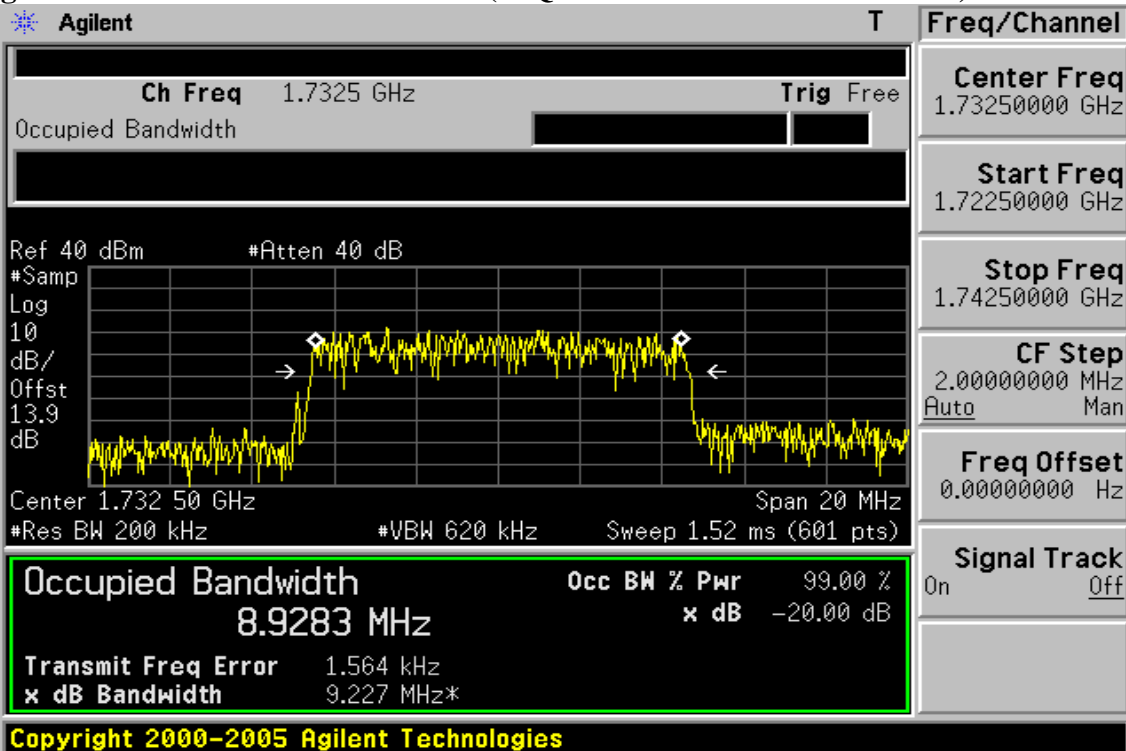


Figure 8-68: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Mid



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Figure 8-69: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel High

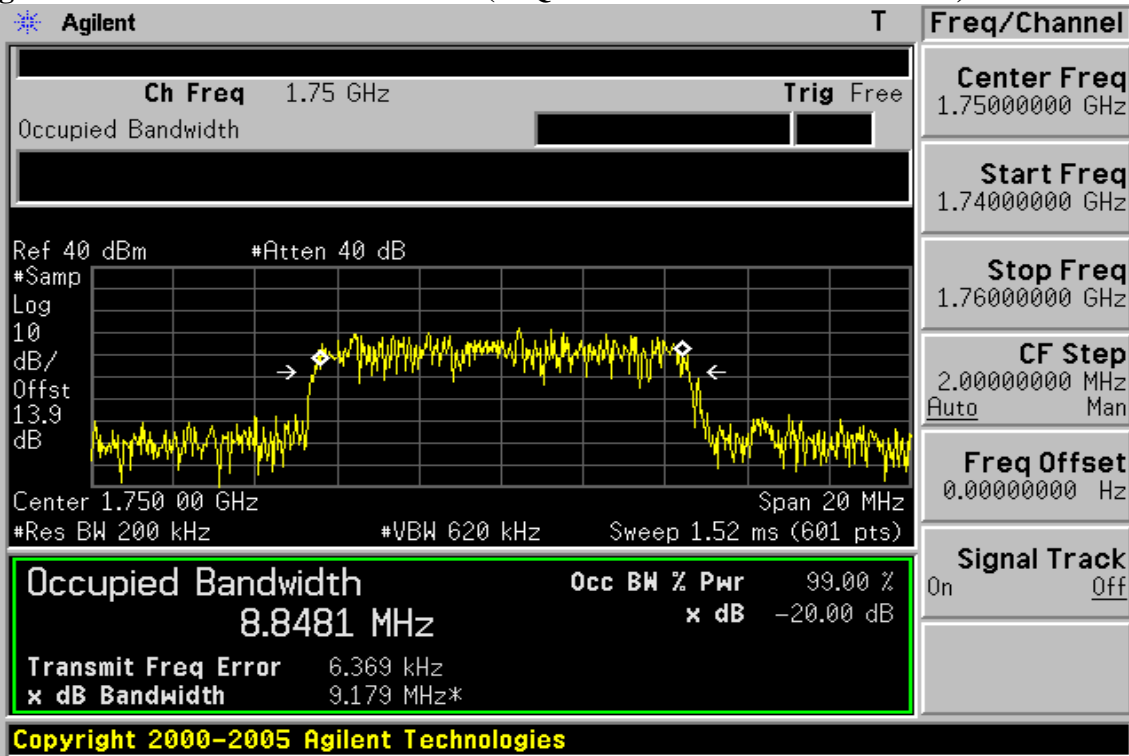
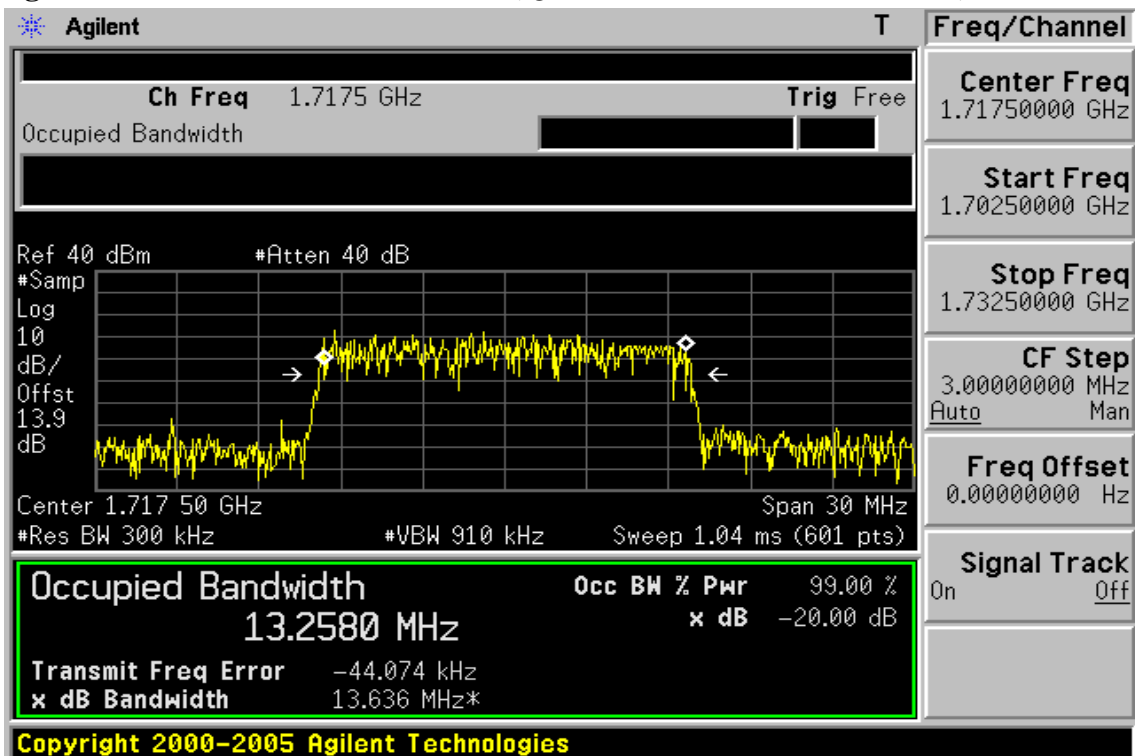


Figure 8-70: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Low



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Figure 8-71: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Mid

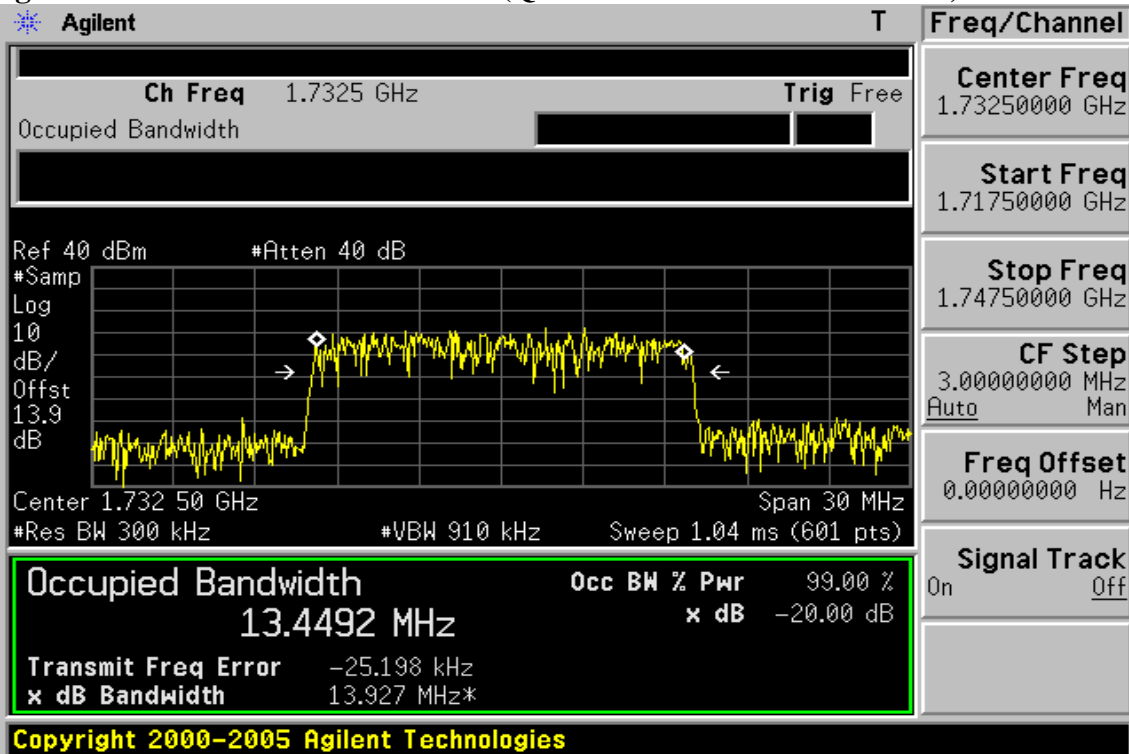
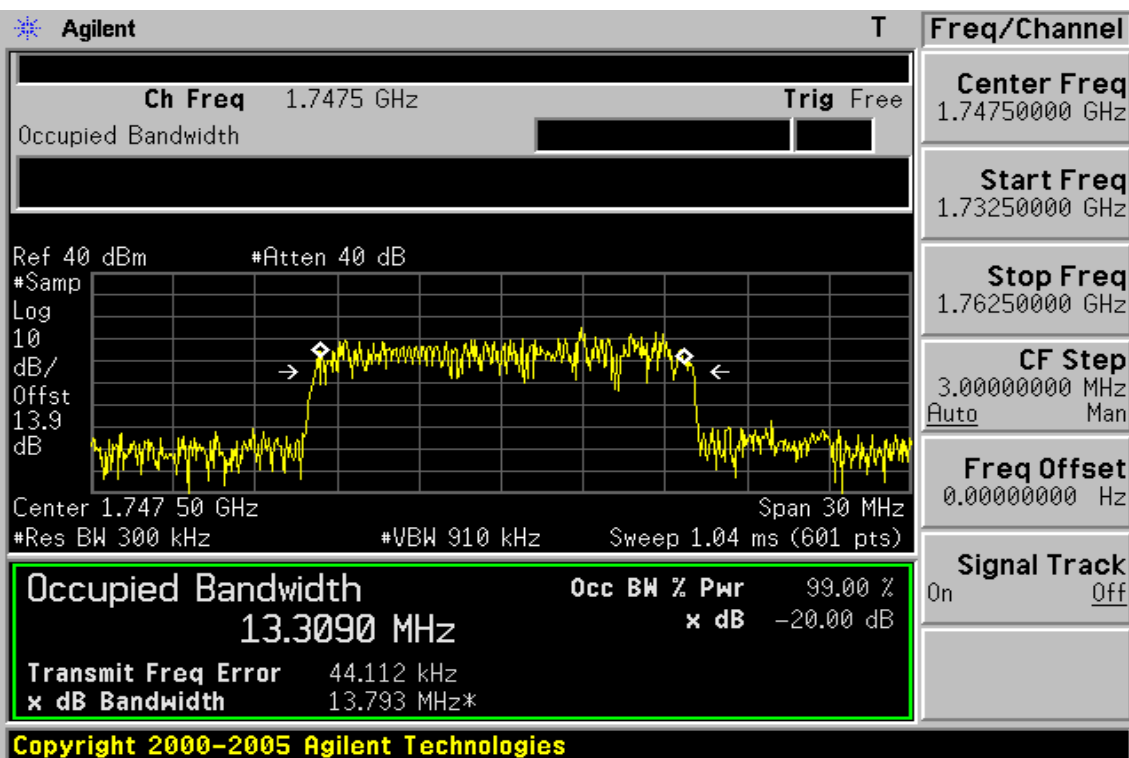


Figure 8-72: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel High



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Figure 8-73: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Low

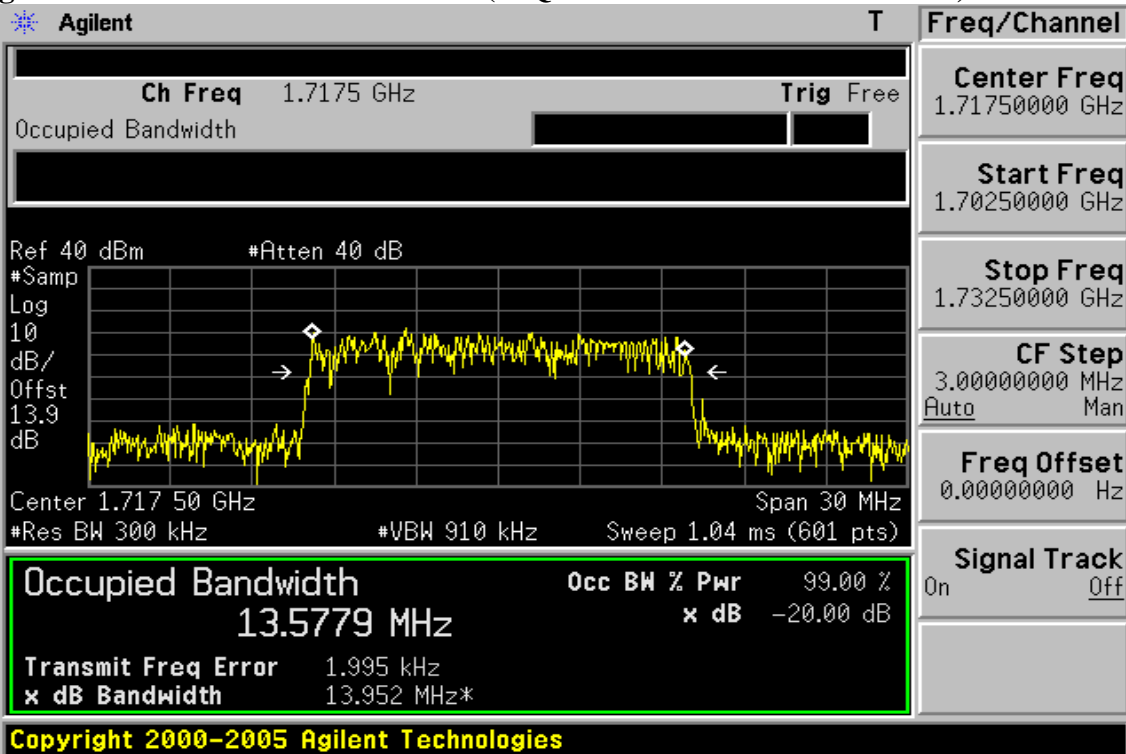
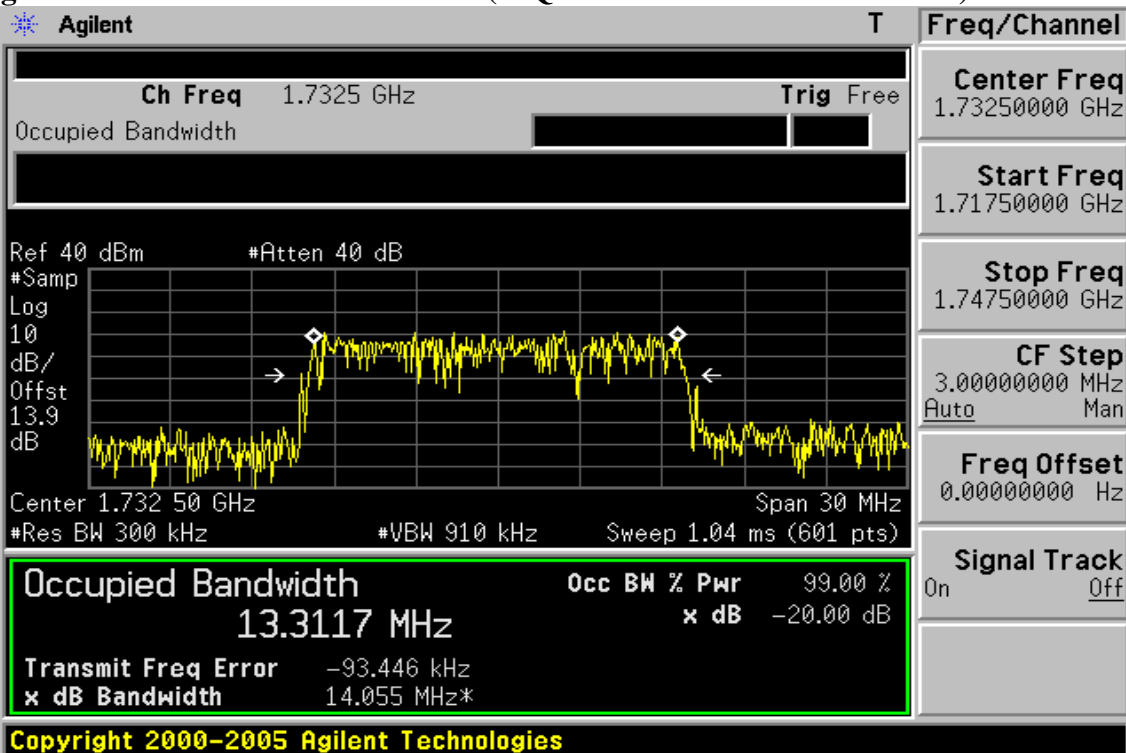


Figure 8-74: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Mid



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Figure 8-75: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel High

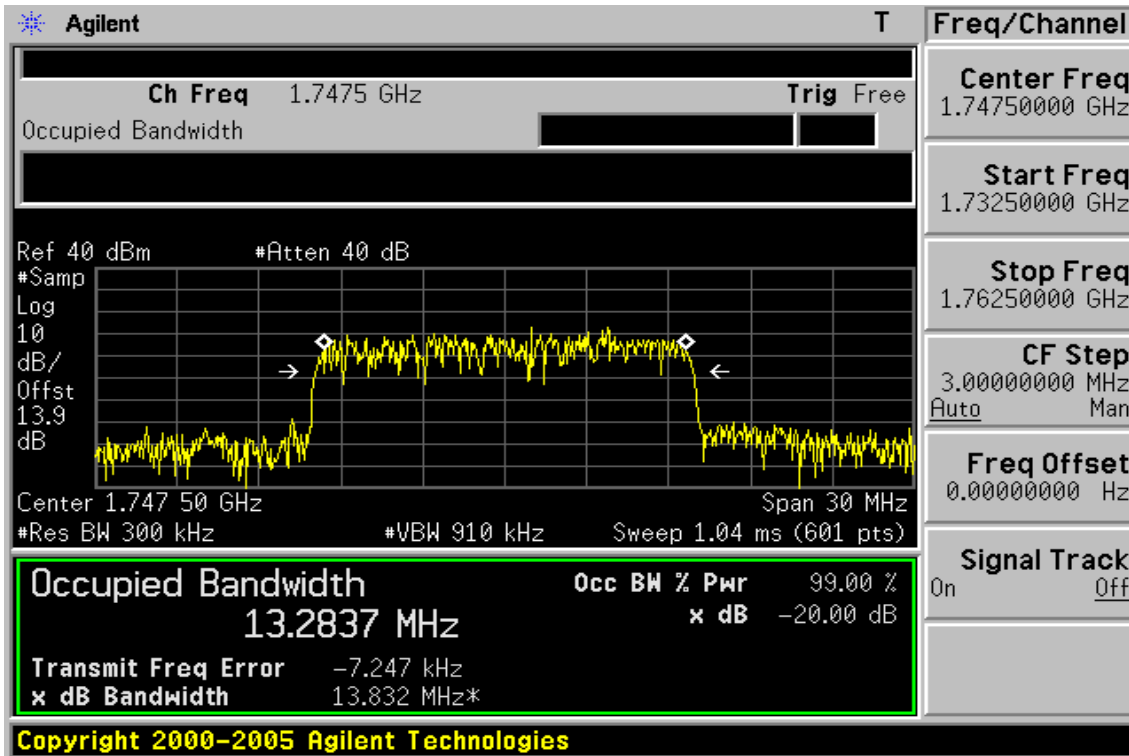
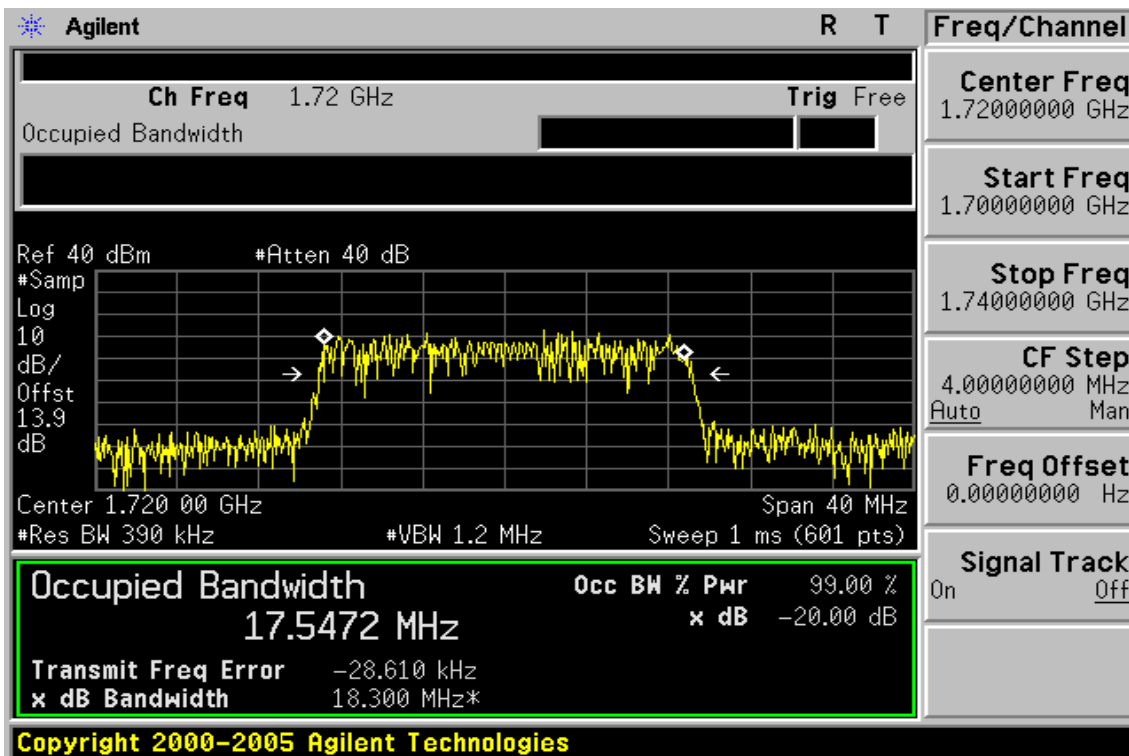


Figure 8-76: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Low



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Figure 8-77: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Mid

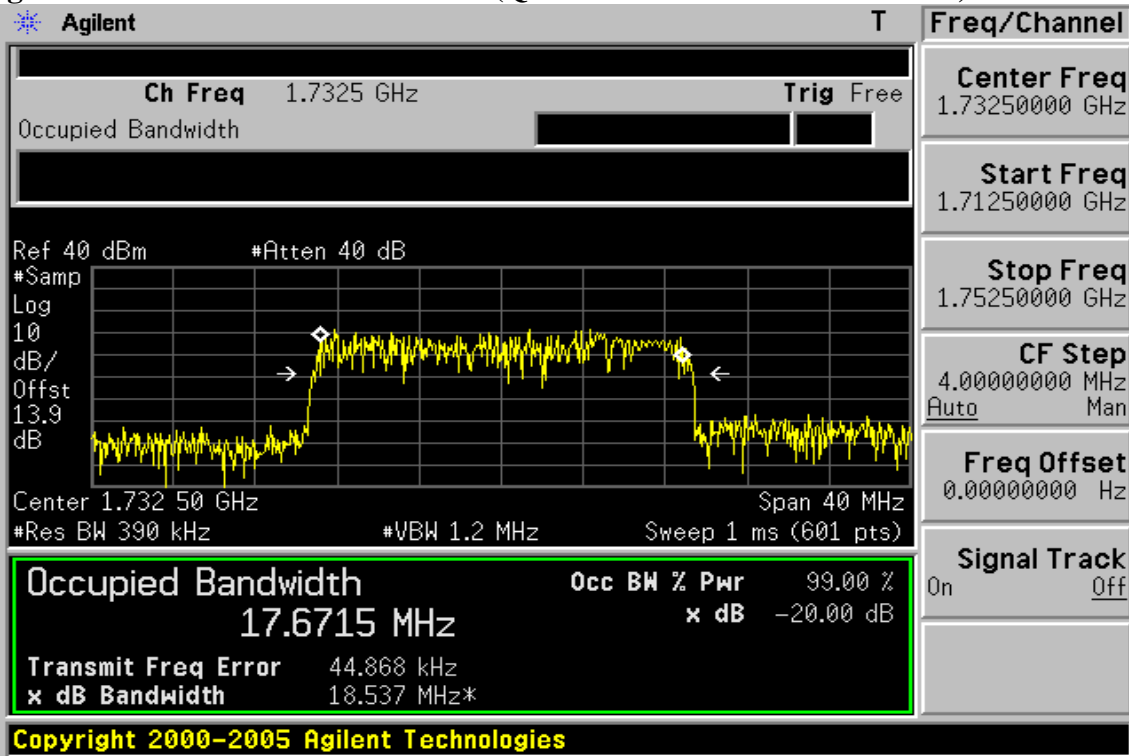
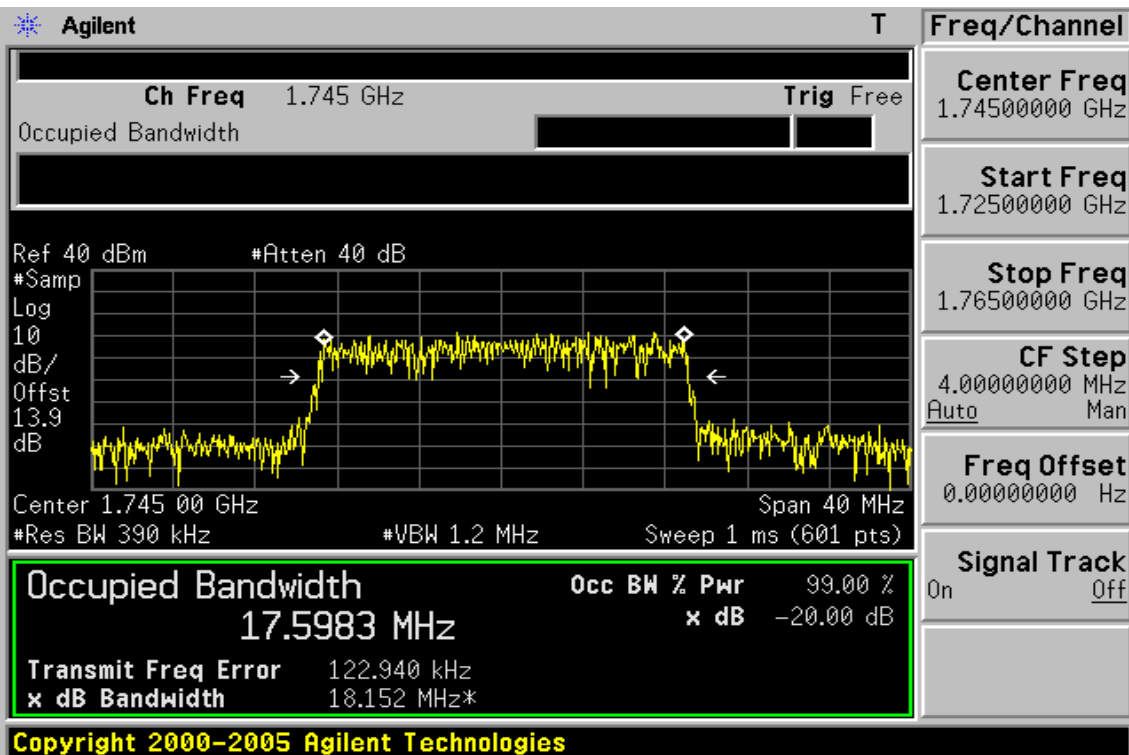


Figure 8-78: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel High



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Figure 8-79: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Low

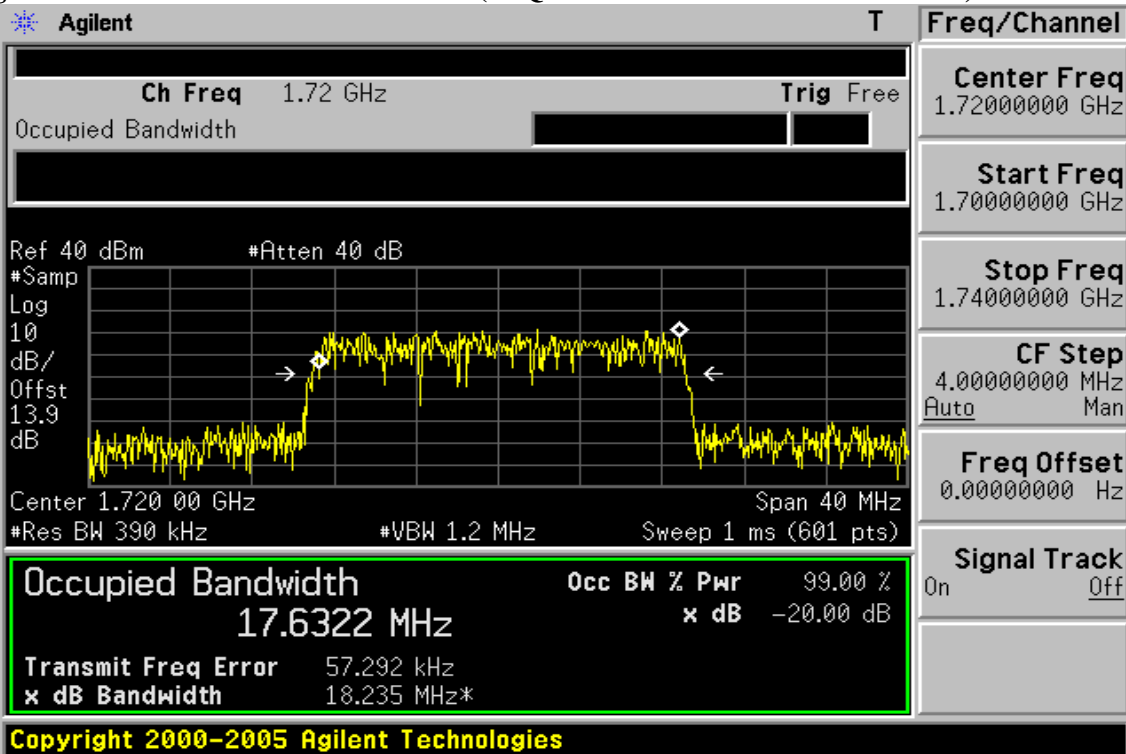
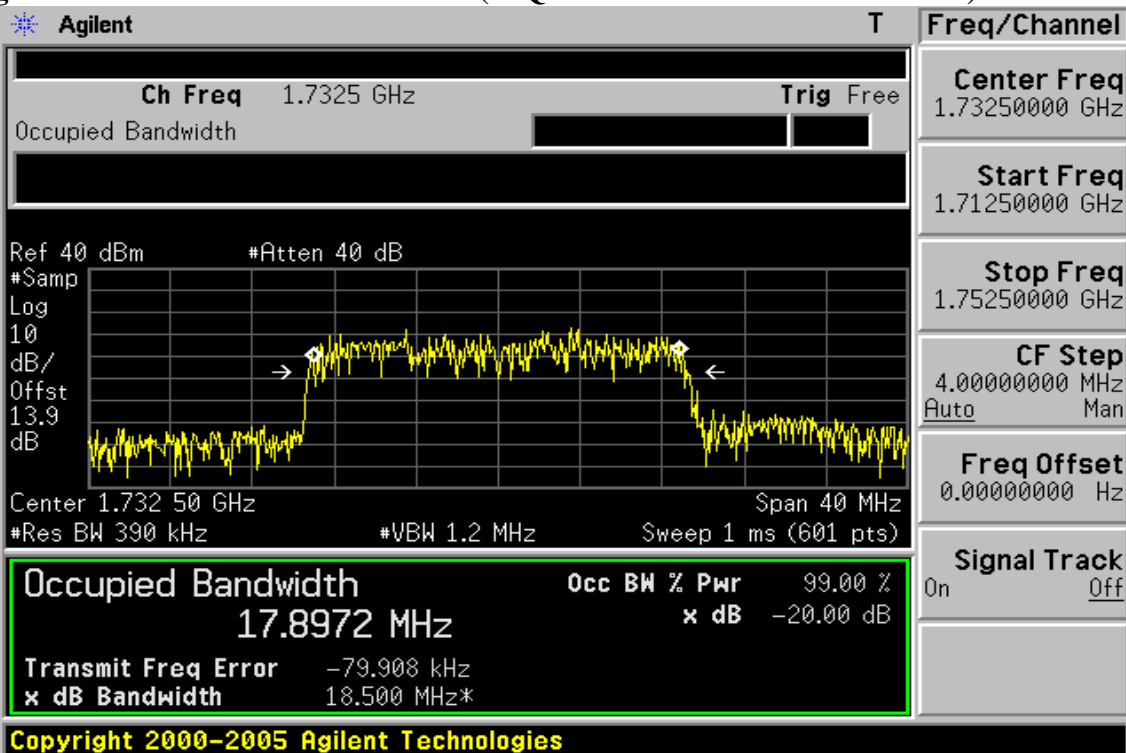


Figure 8-80: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Mid



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Figure 8-81: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel High

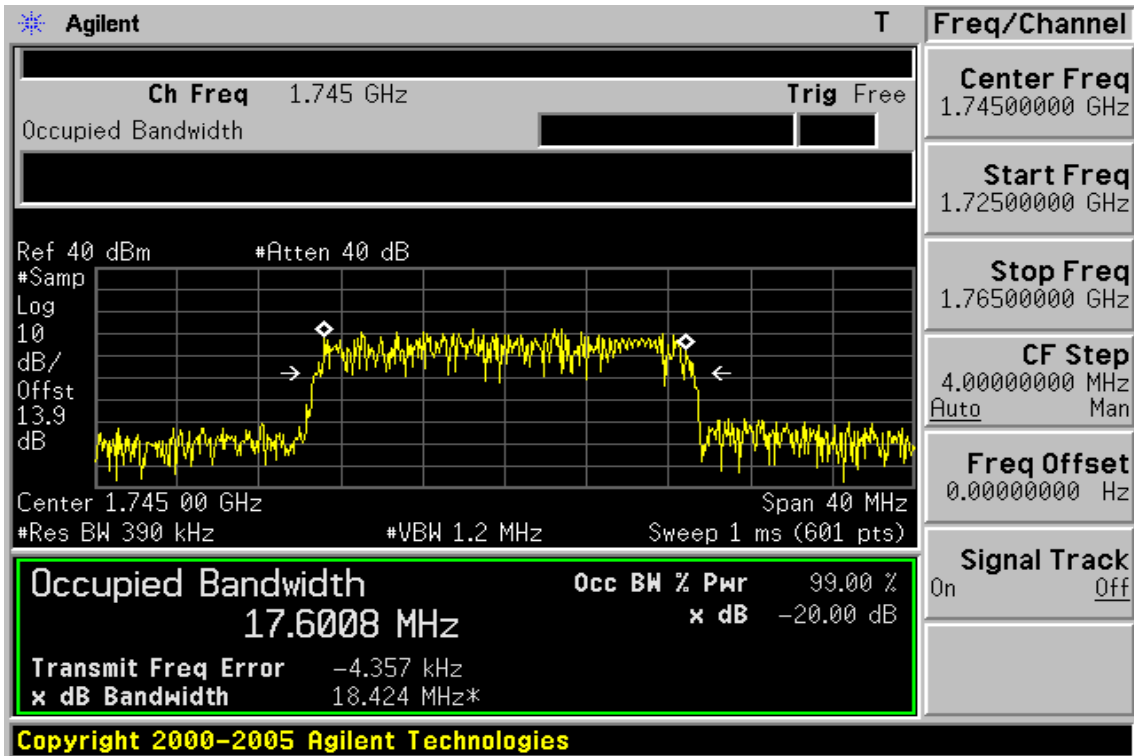
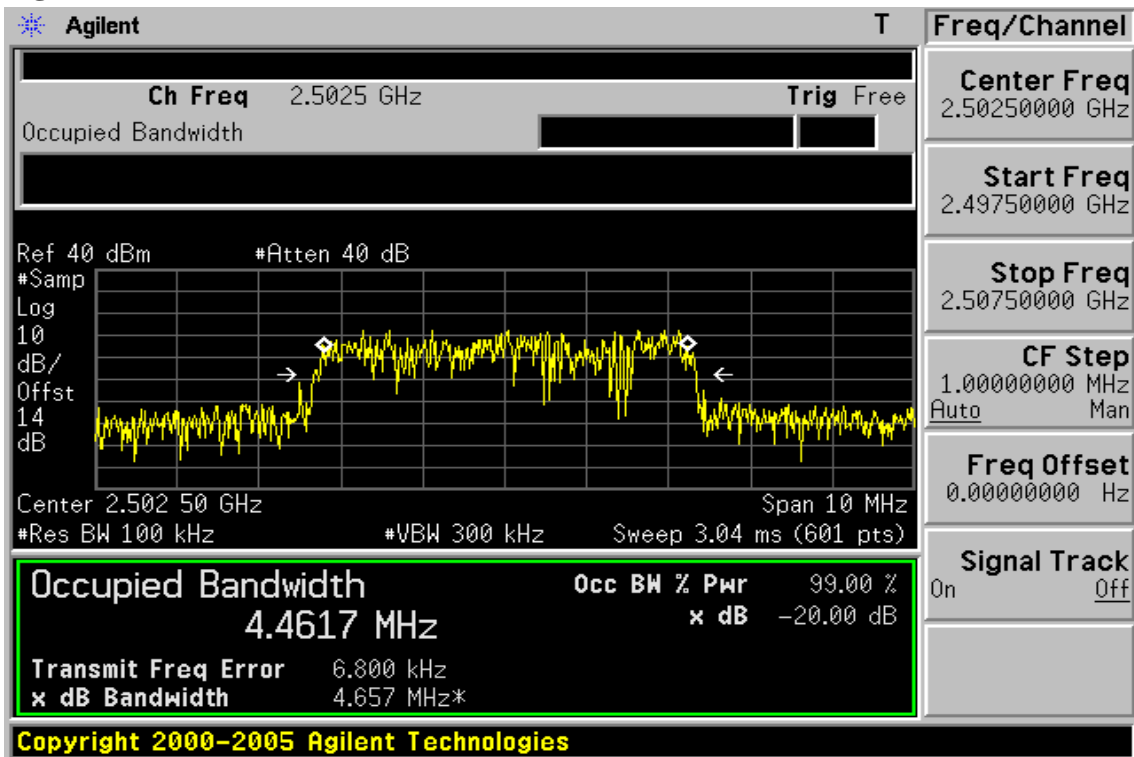


Figure 8-82: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Low



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Figure 8-83: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Mid

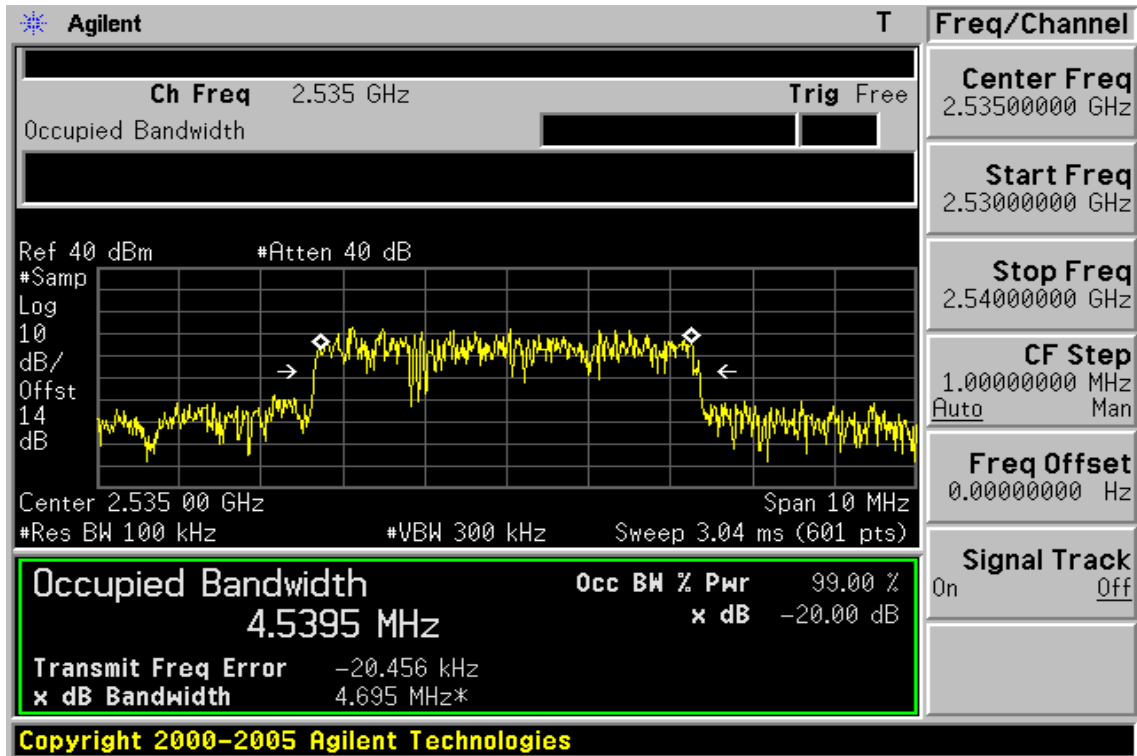
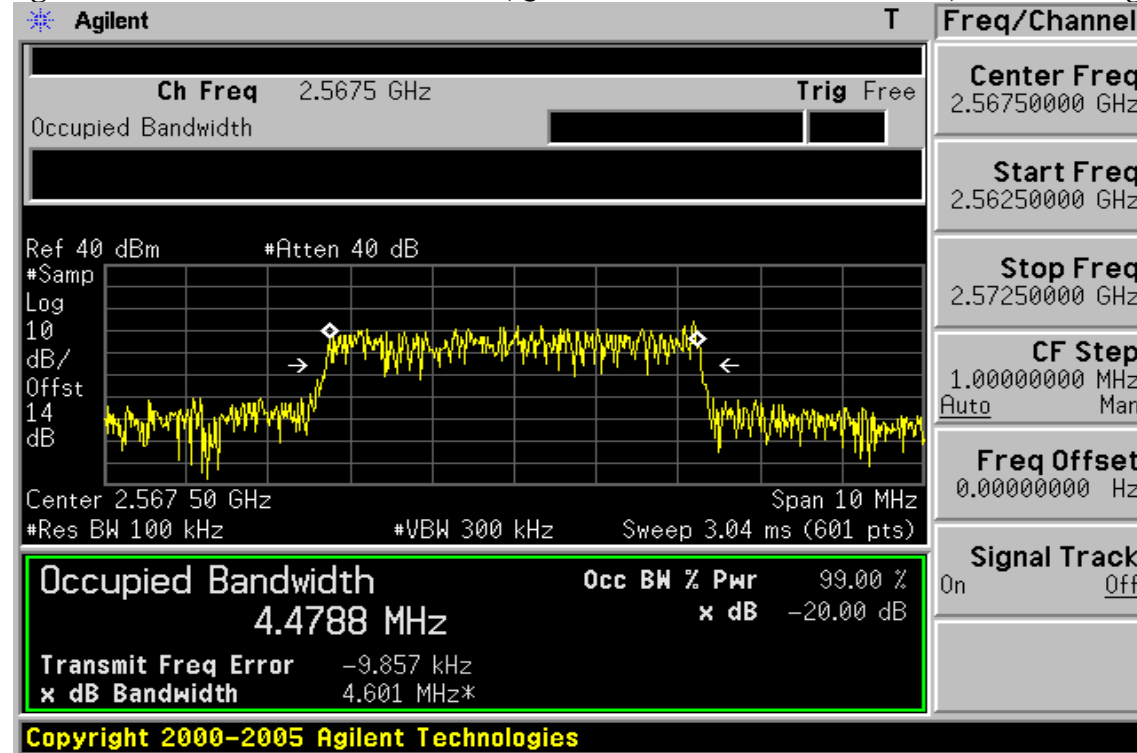


Figure 8-84: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel High



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Figure 8-85: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Low

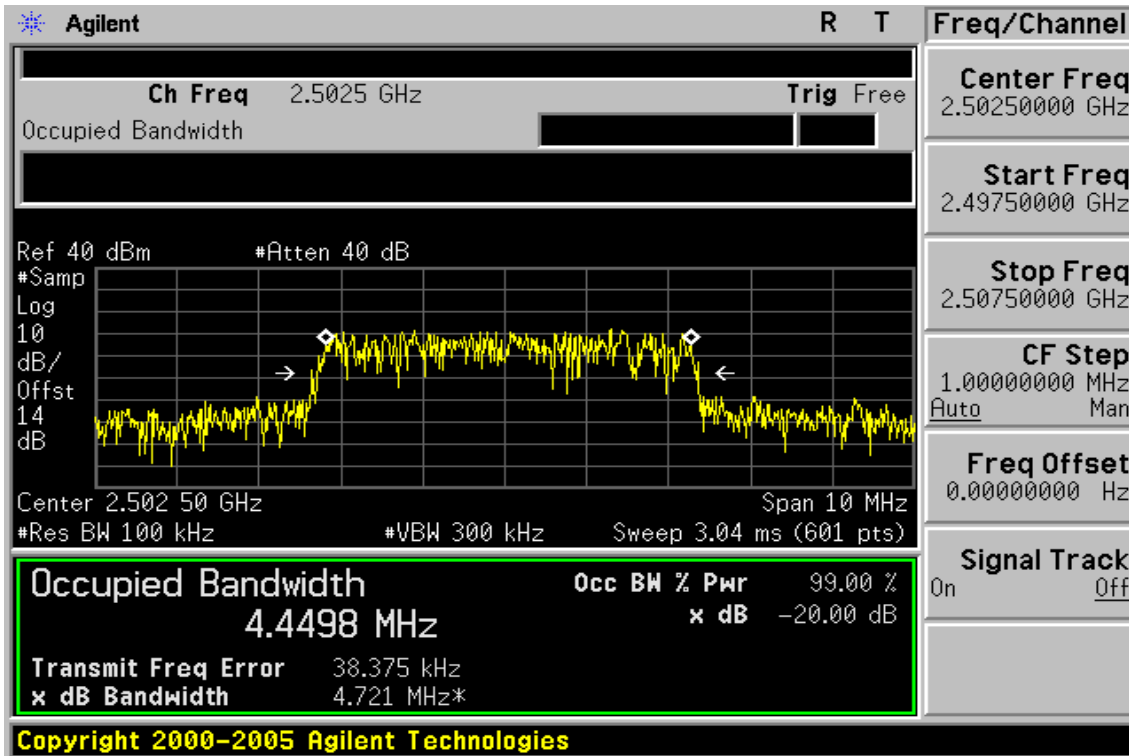
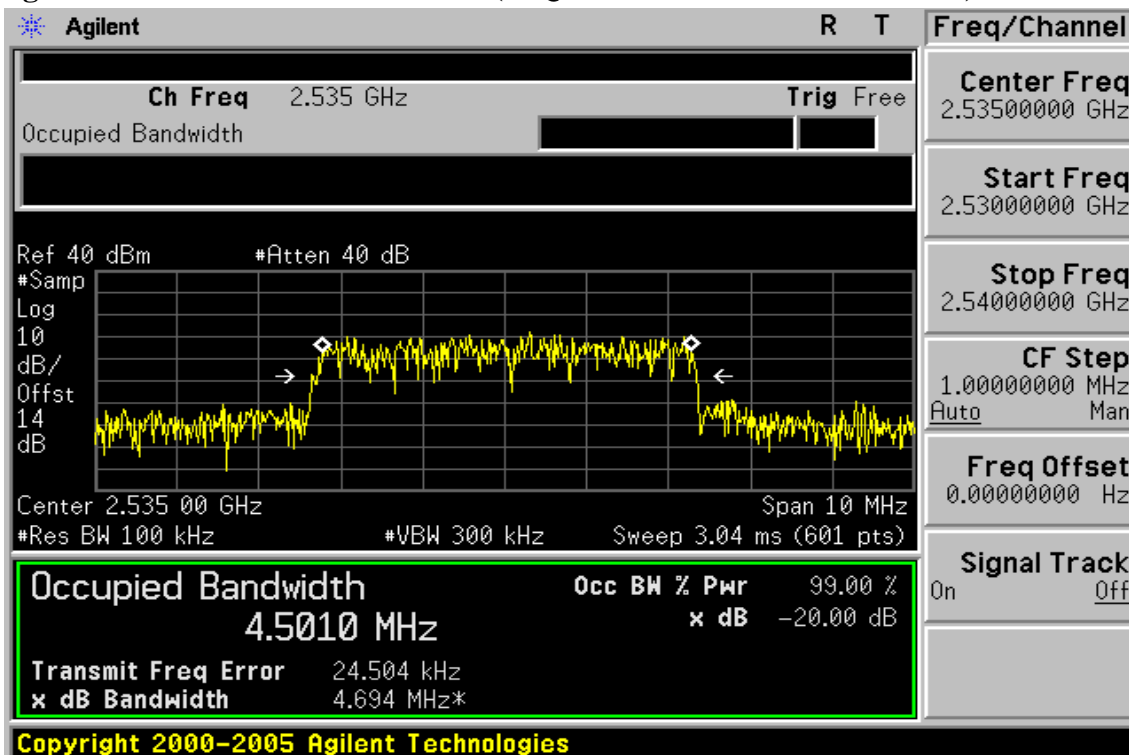


Figure 8-86: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Mid



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Figure 8-87: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel High

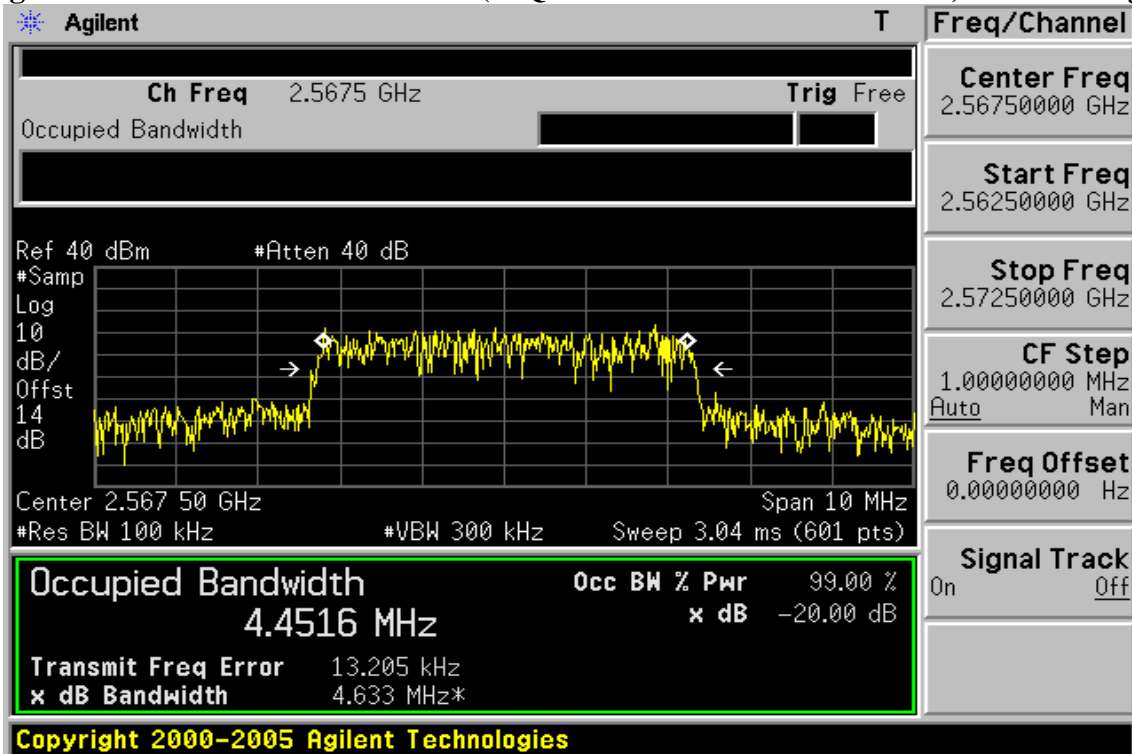
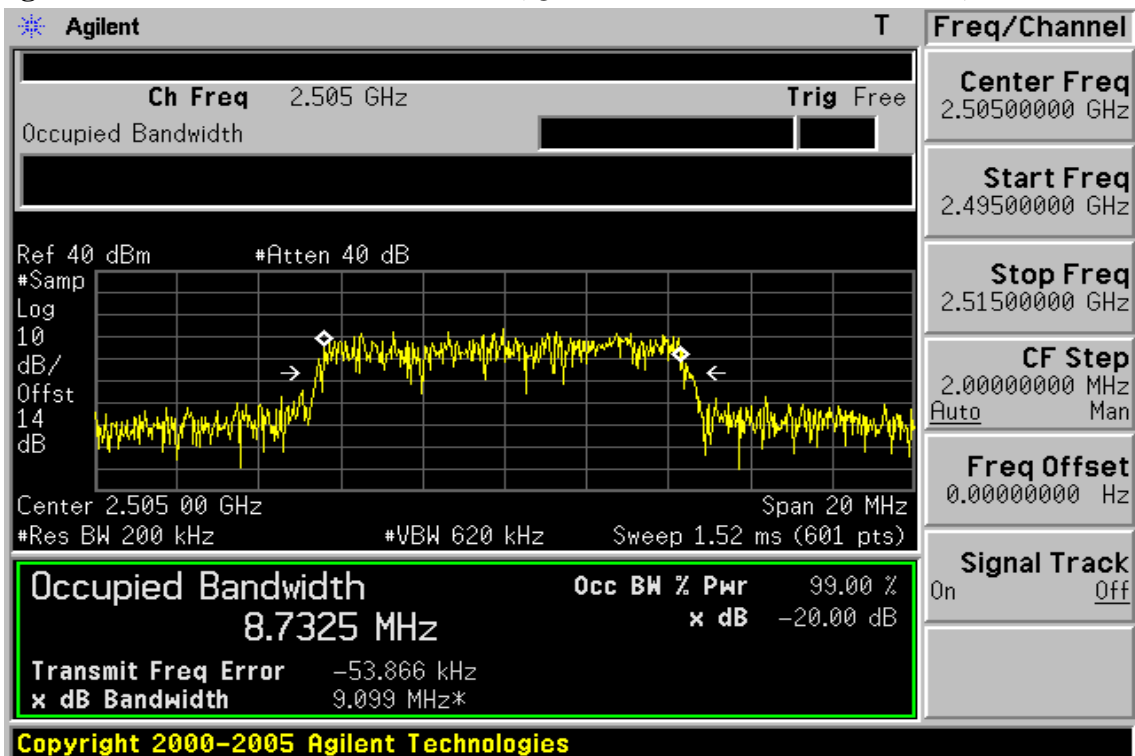


Figure 8-88: 10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Low



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Figure 8-89: 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel Mid

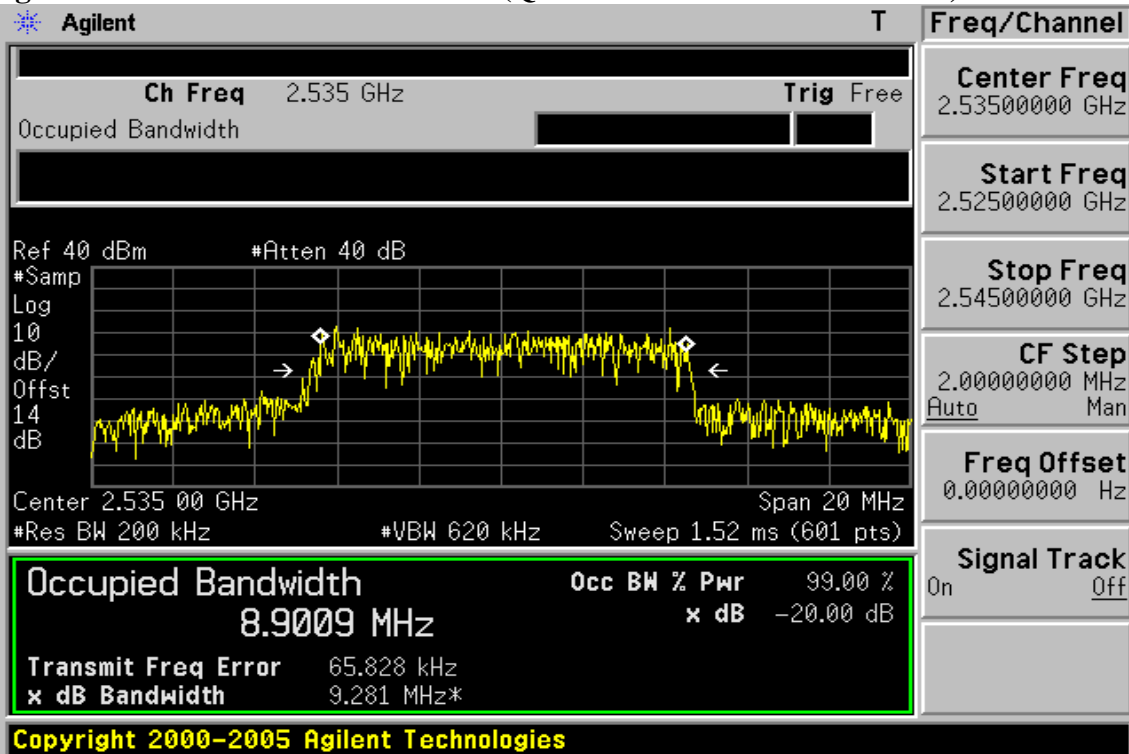
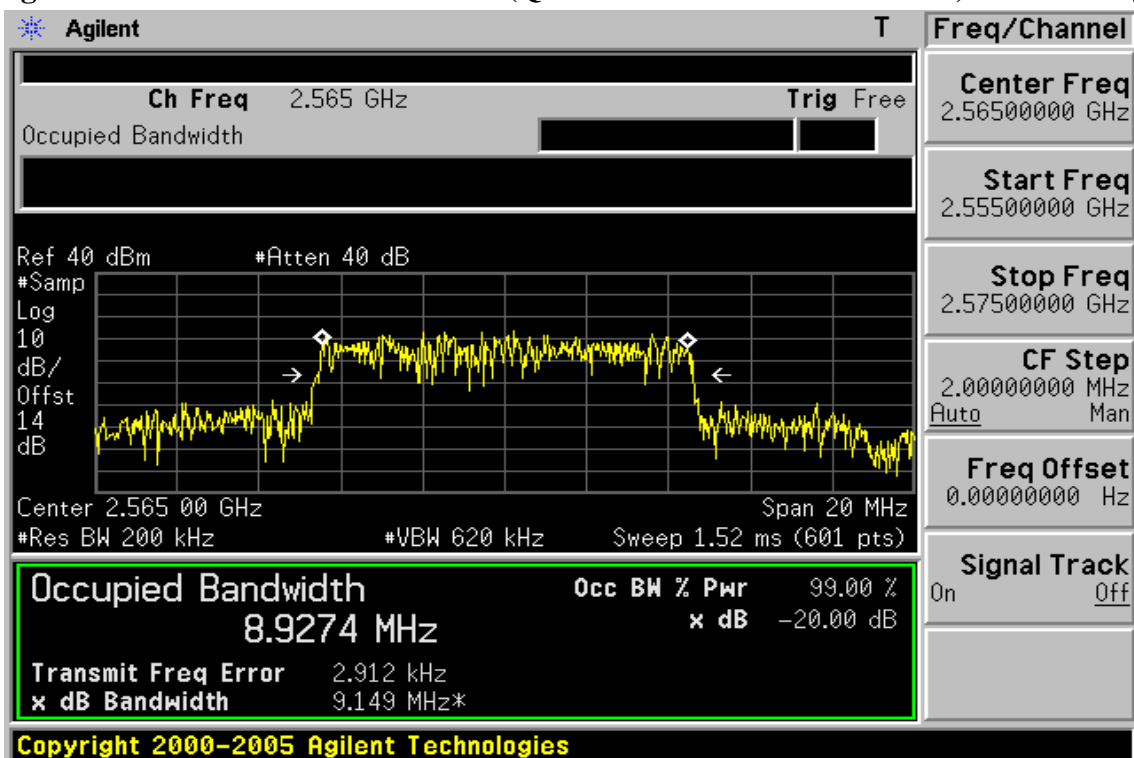


Figure 8-90: 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel High



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Figure 8-91: 10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0) Channel Low

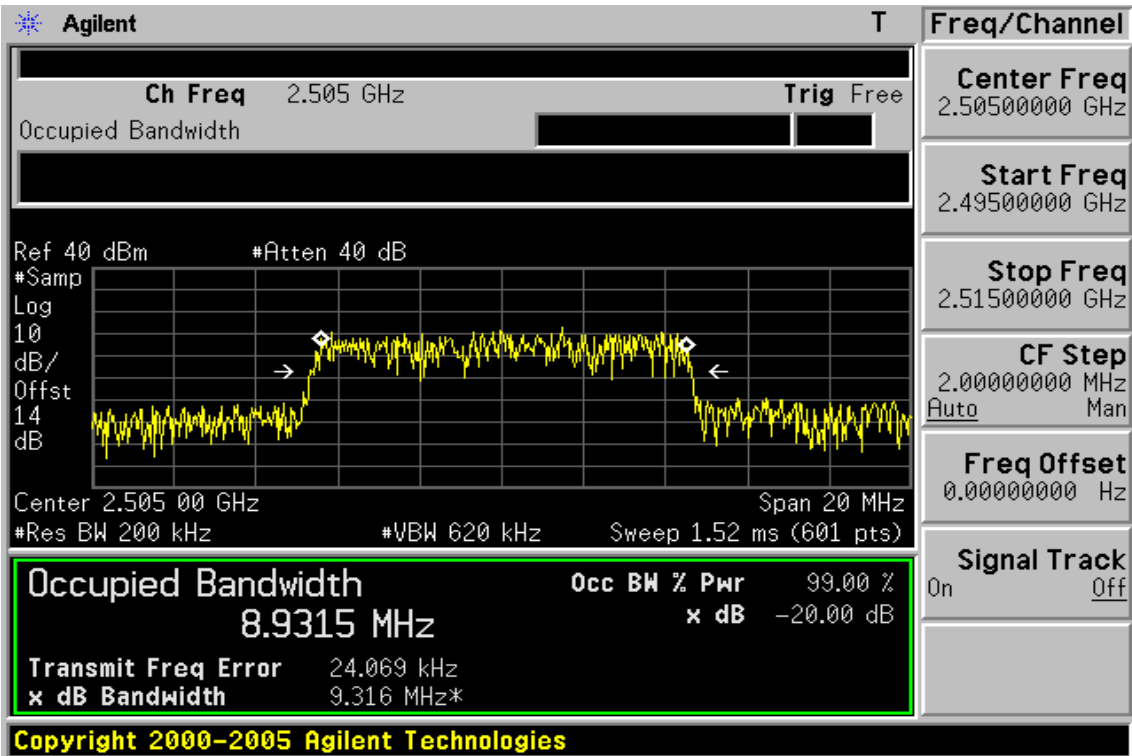
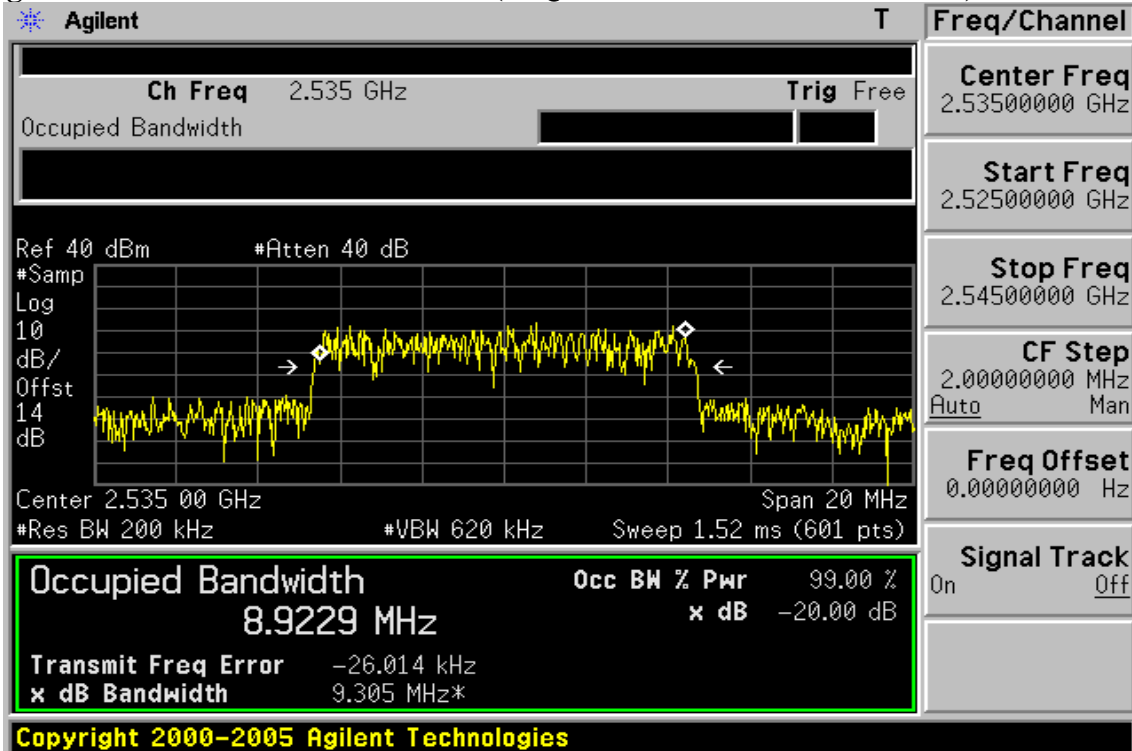


Figure 8-92: 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel Mid



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Figure 8-93: 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel High

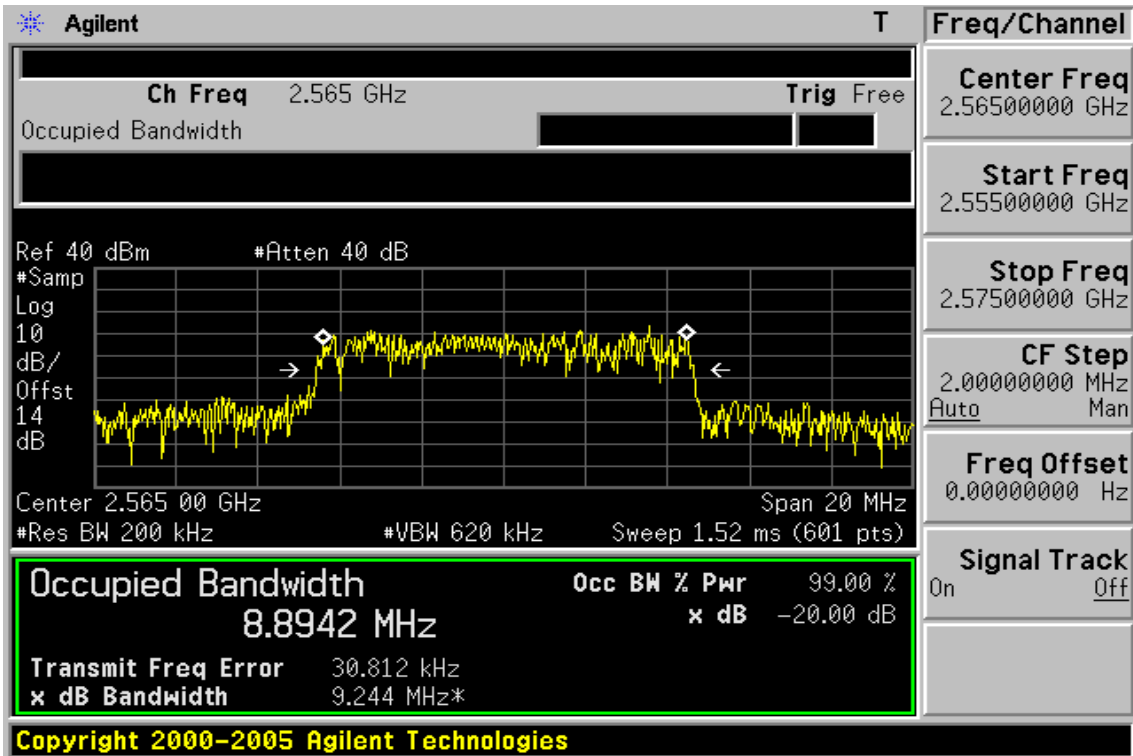
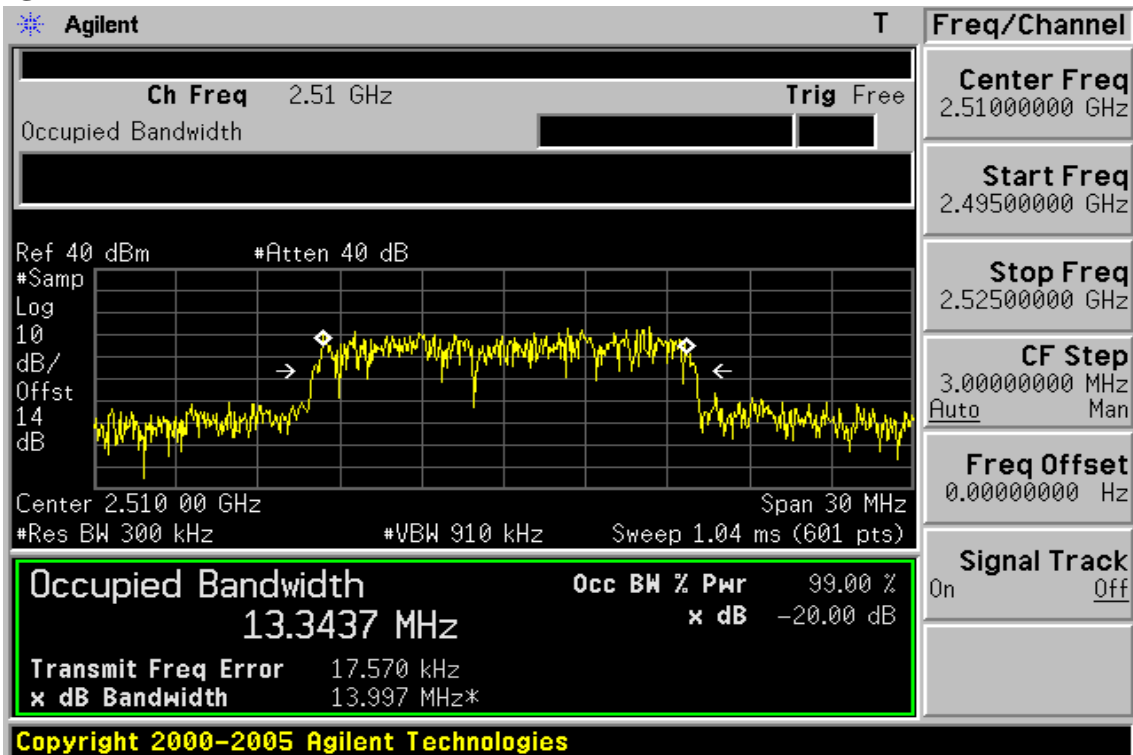


Figure 8-94: 15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Low



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Figure 8-95: 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel Mid

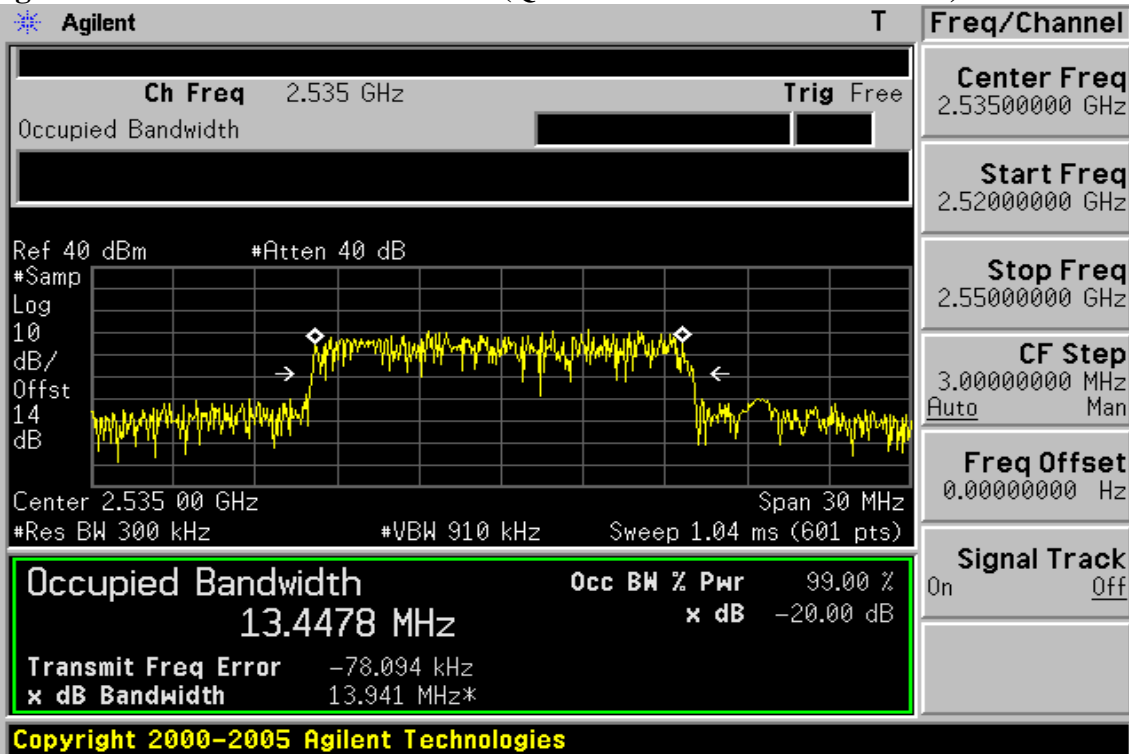
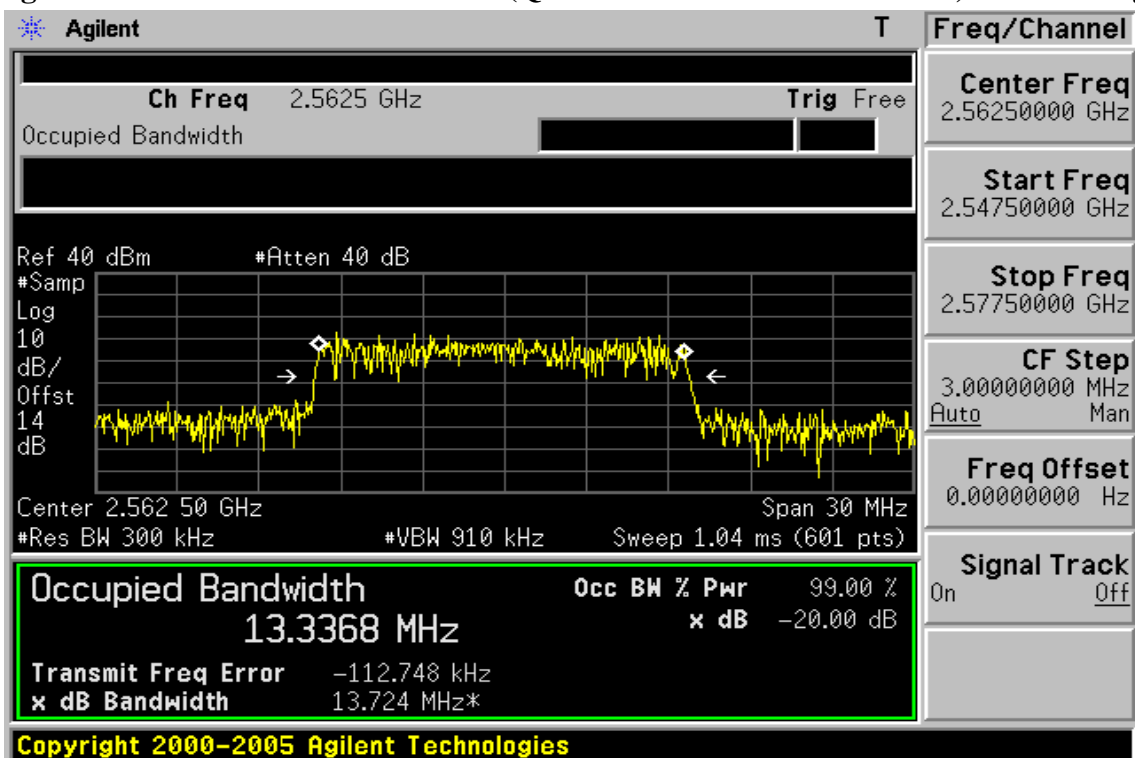


Figure 8-96: 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel High



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Figure 8-97: 15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0) Channel Low

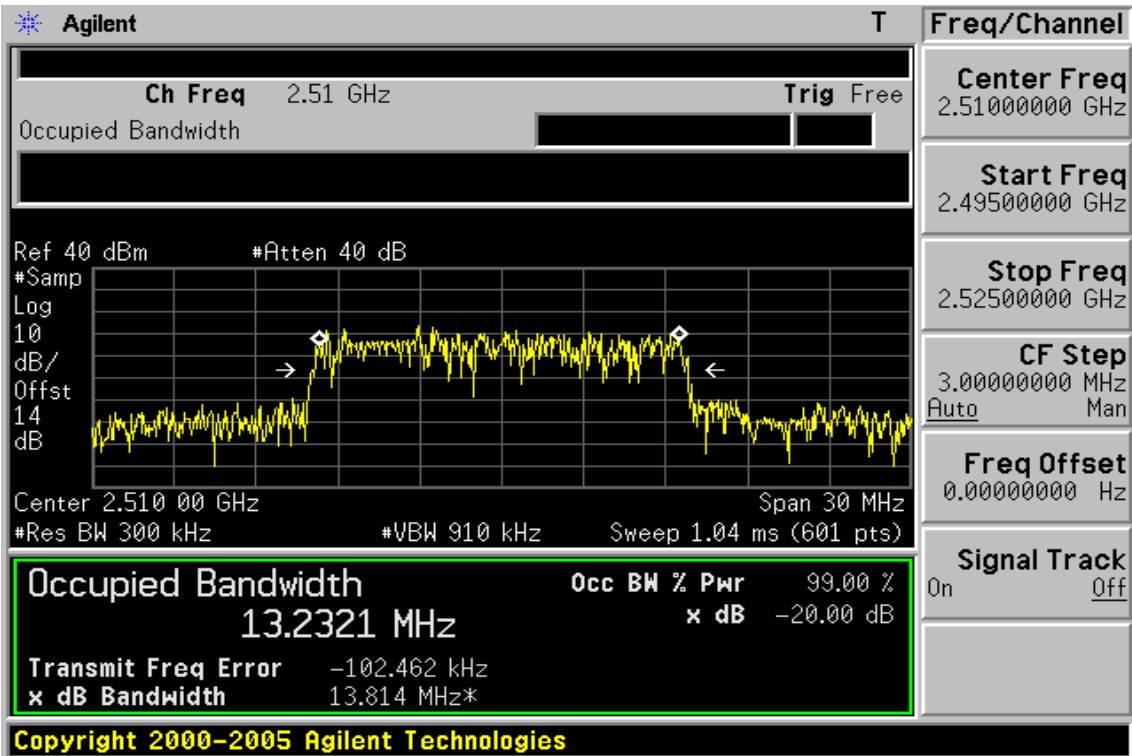
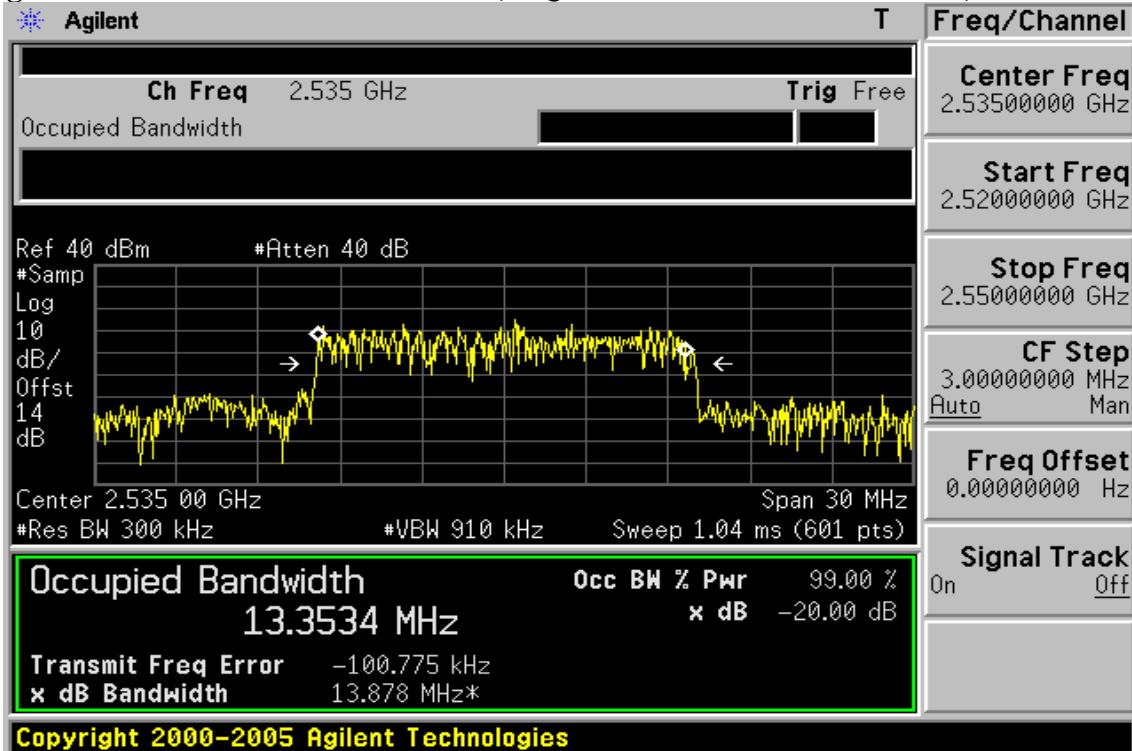


Figure 8-98: 10MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel Mid



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Figure 8-99: 10MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel High

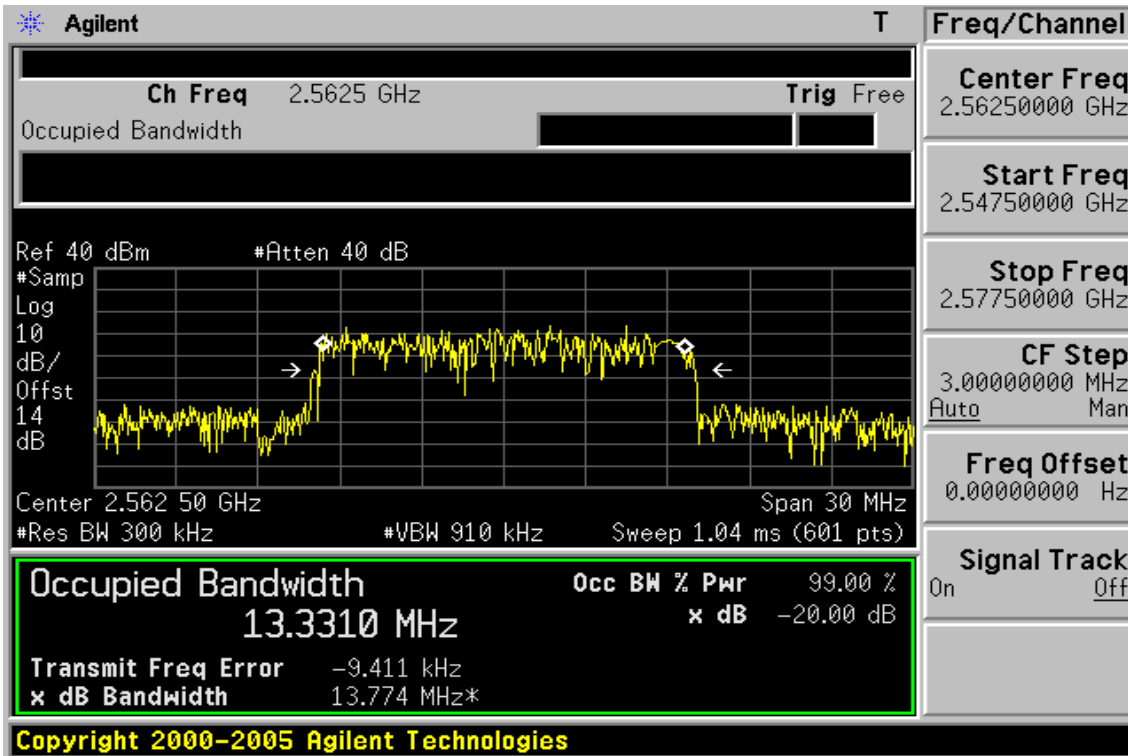
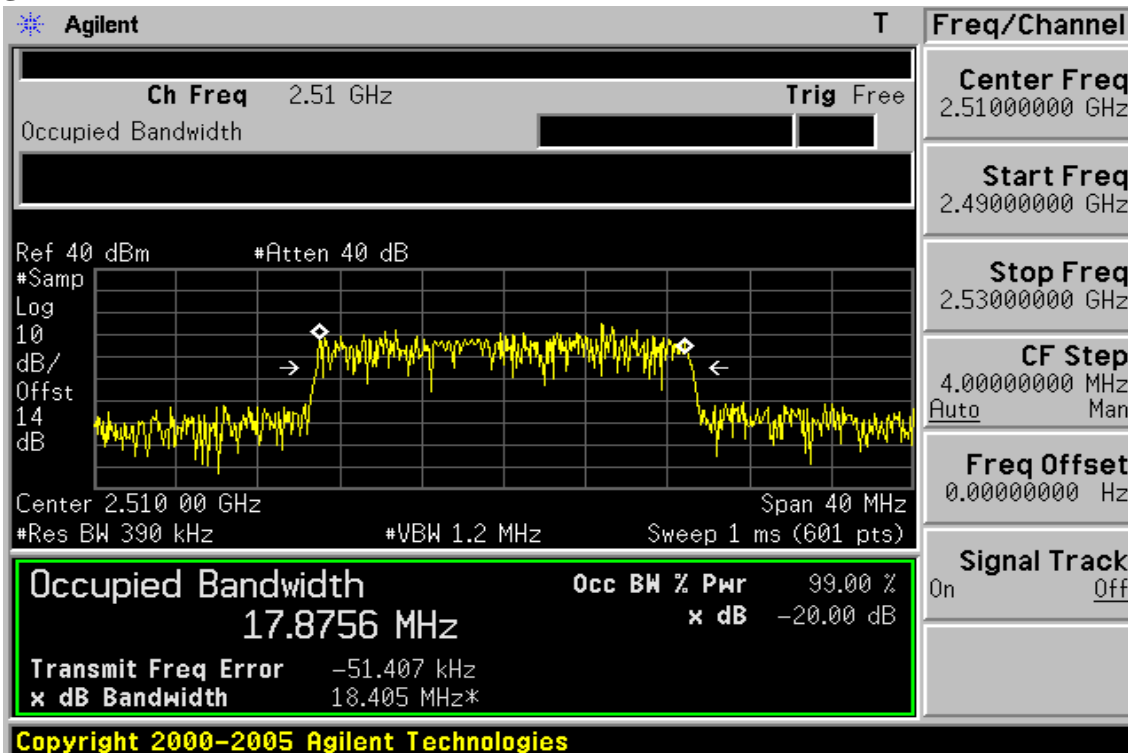


Figure 8-100: 20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Low



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Figure 8-101: 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel Mid

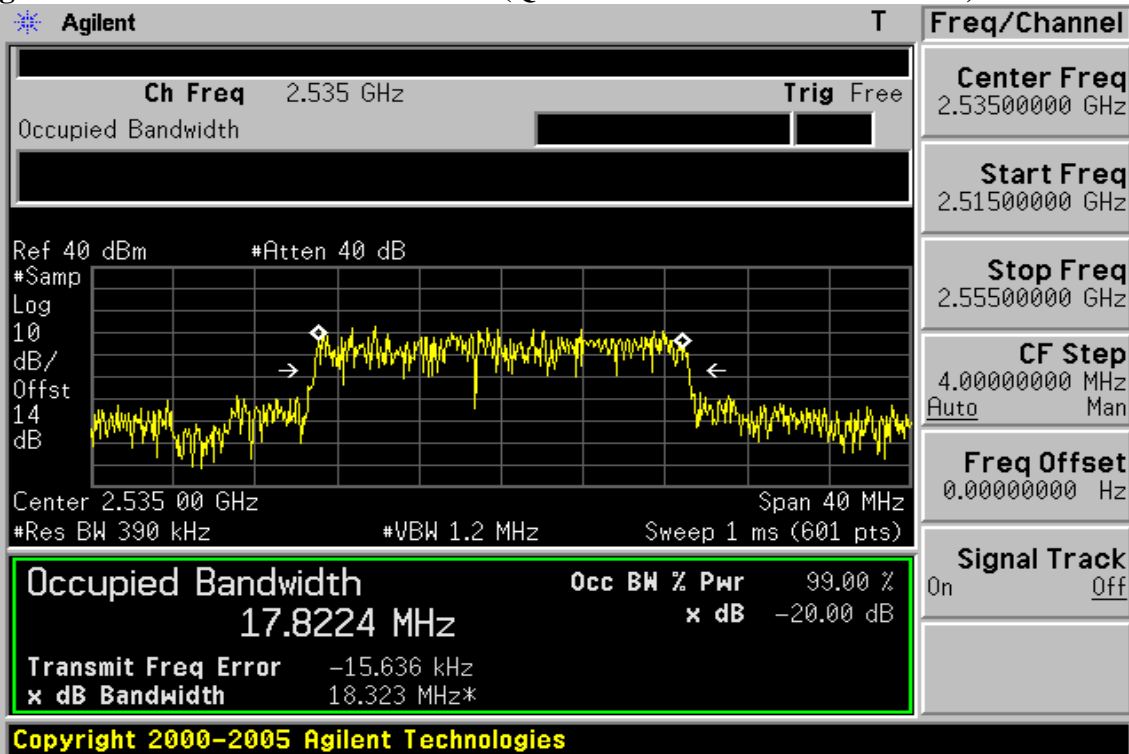
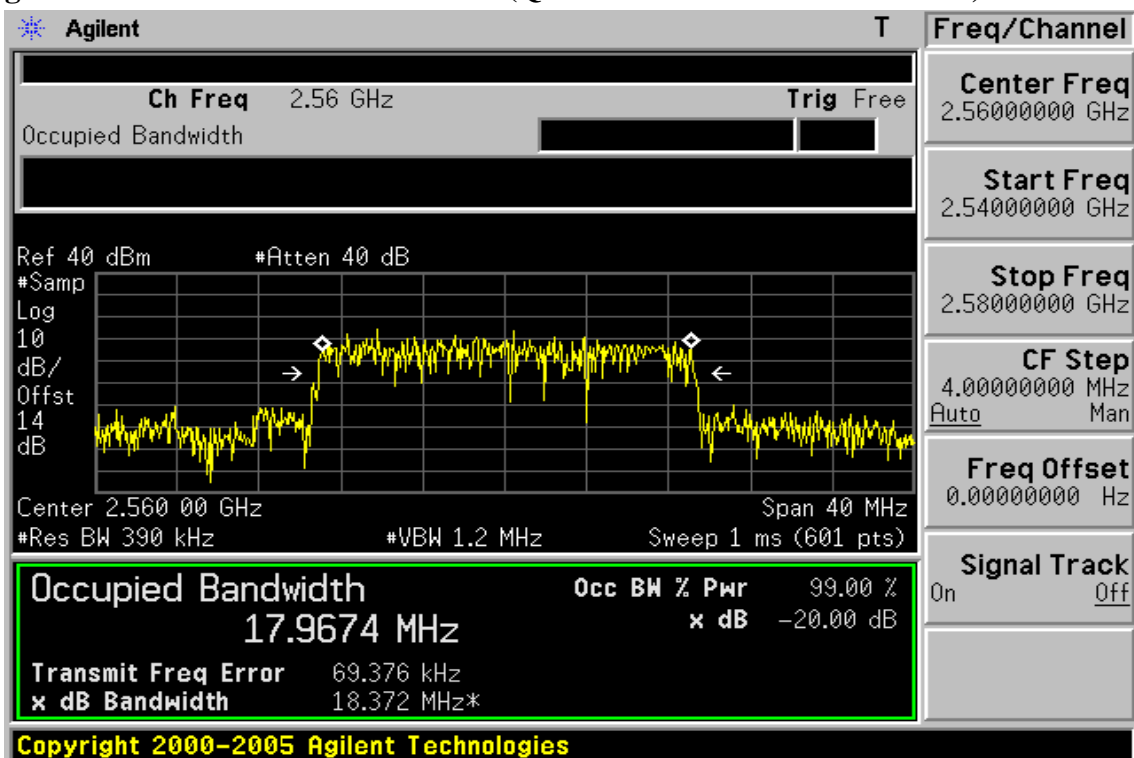


Figure 8-102: 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel High



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Figure 8-103: 20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0) Channel Low

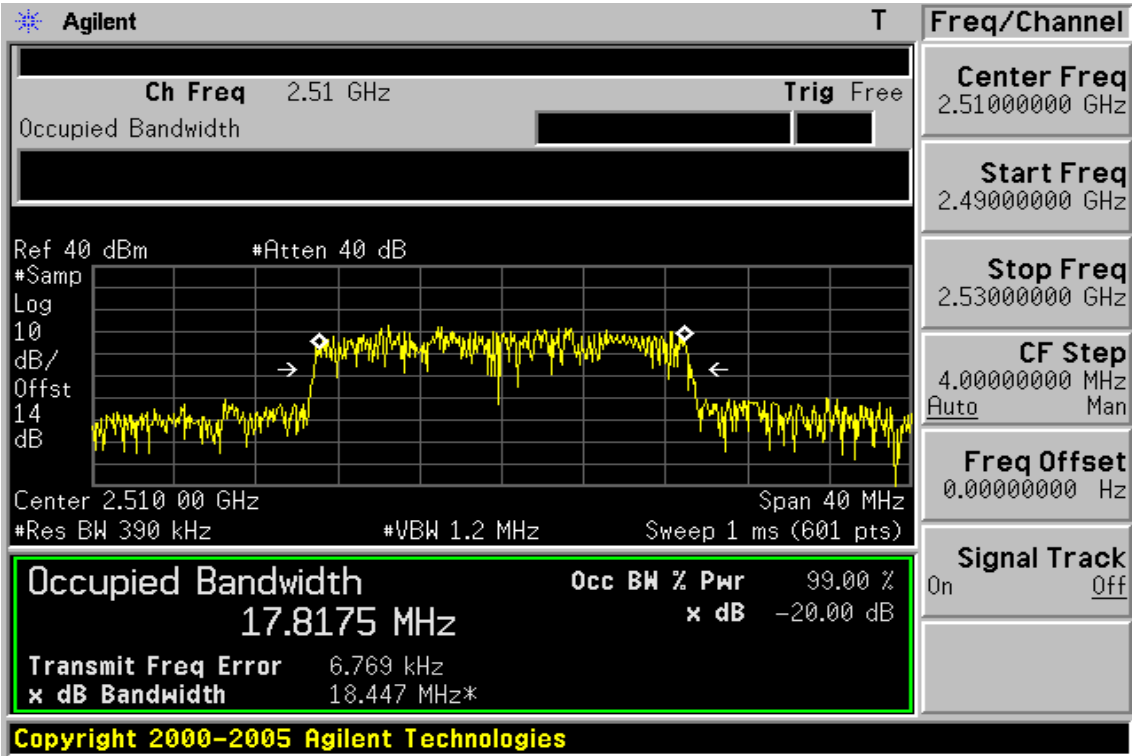
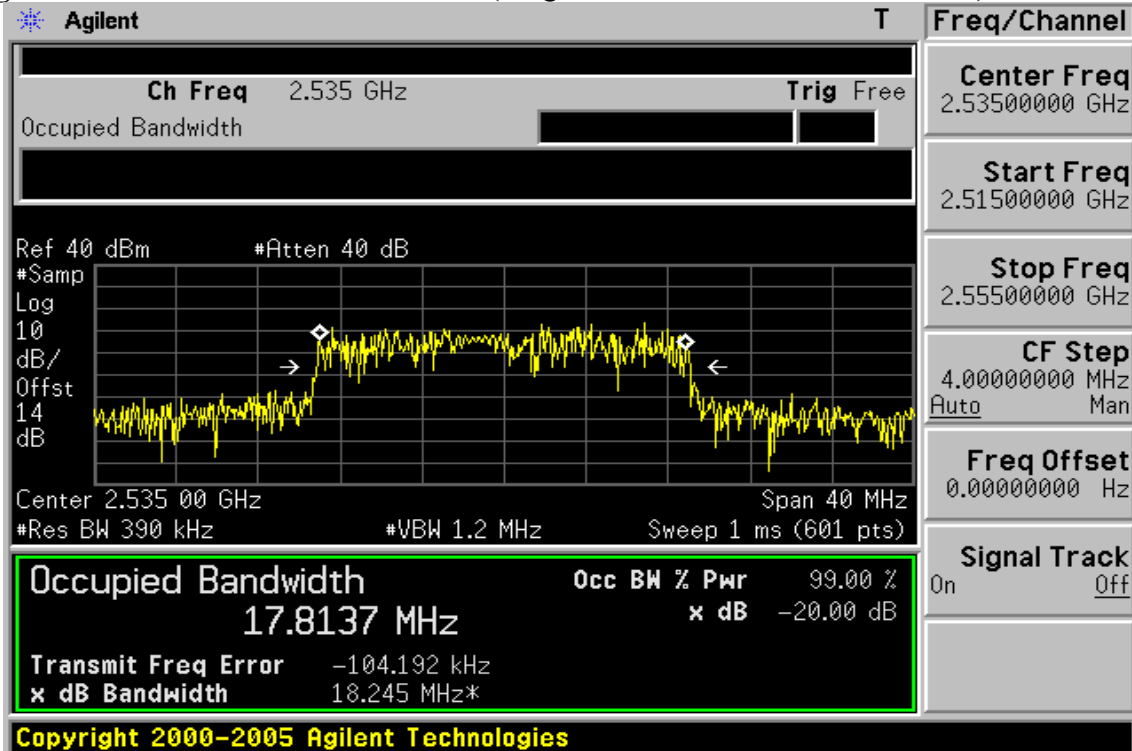


Figure 8-104: 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel Mid



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Figure 8-105: 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel High

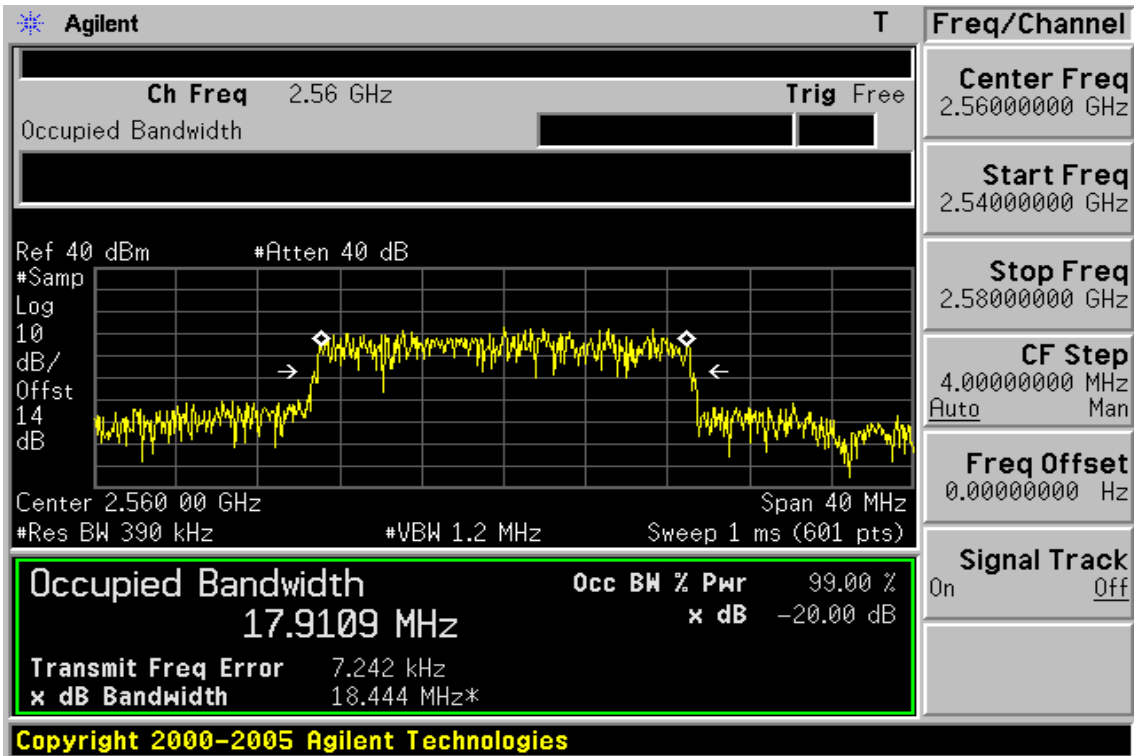
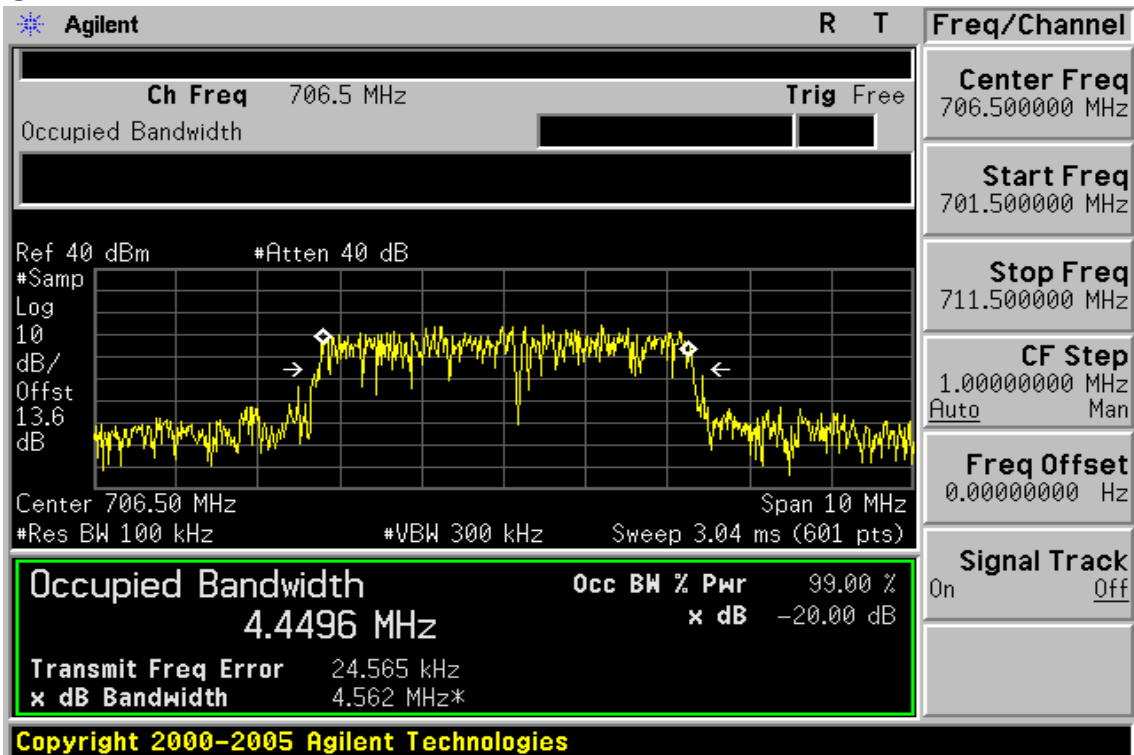


Figure 8-106: 5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Low



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Figure 8-107: 5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel Mid

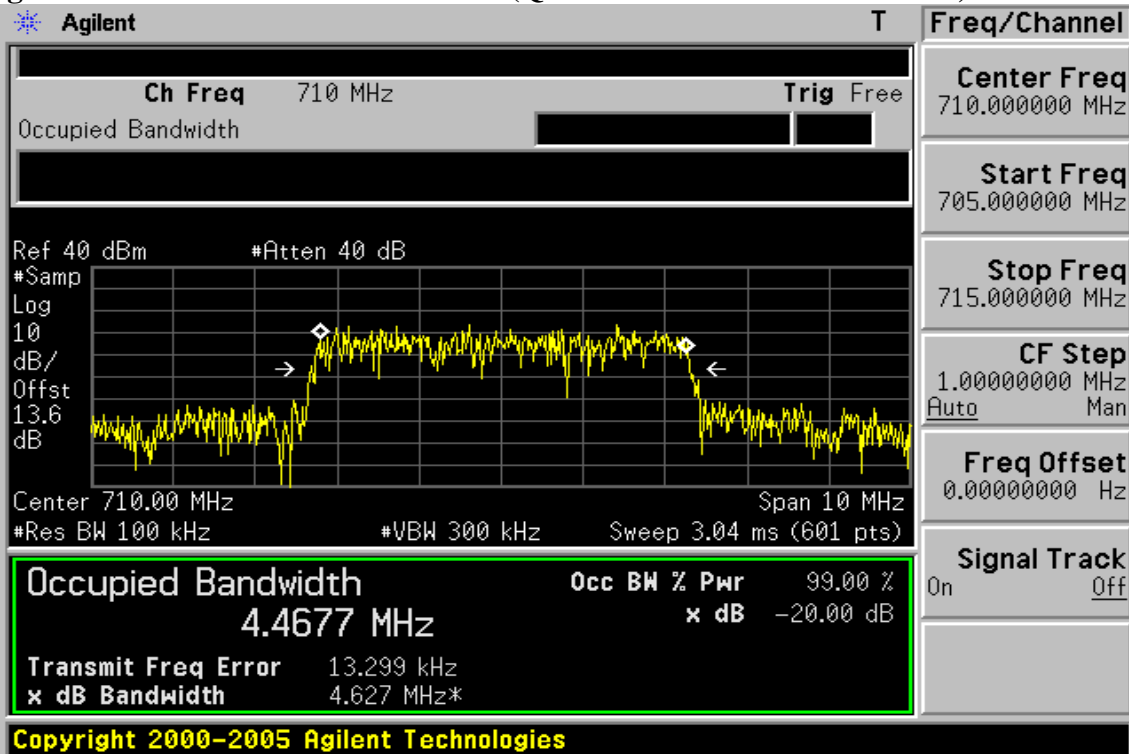
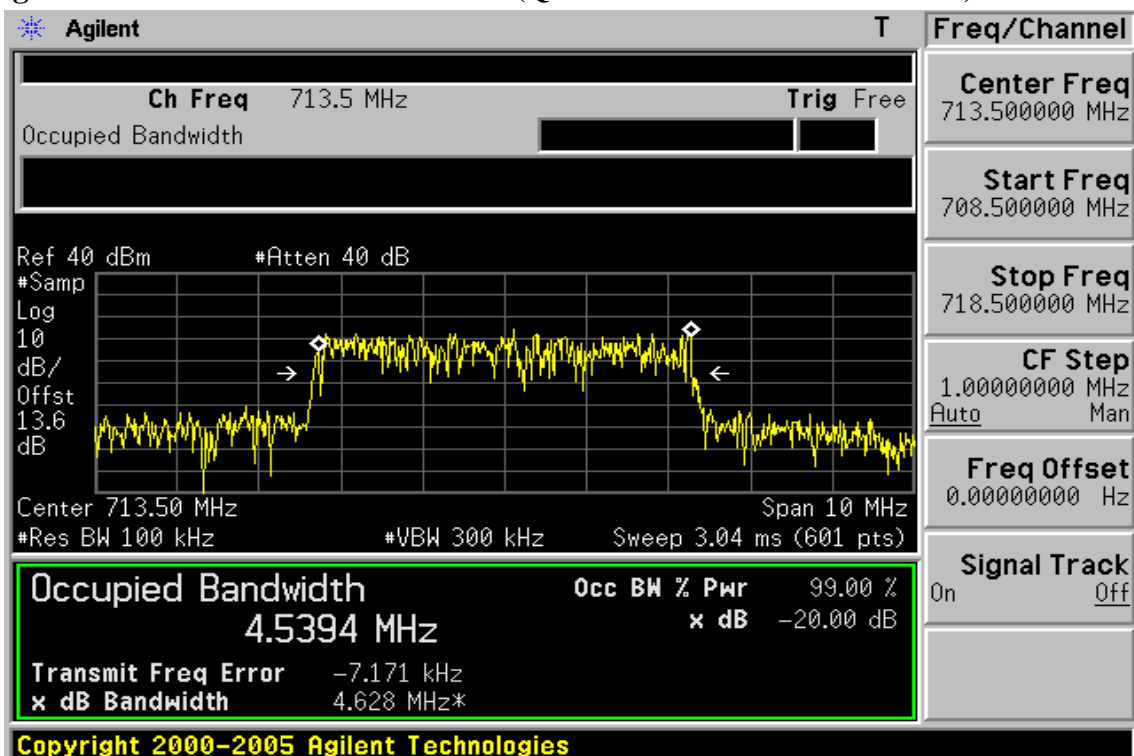


Figure 8-108: 5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel High



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Figure 8-109: 5MHz BW LTE-Band 17 (16QAM RB Number: 25 Offset: 0) Channel Low

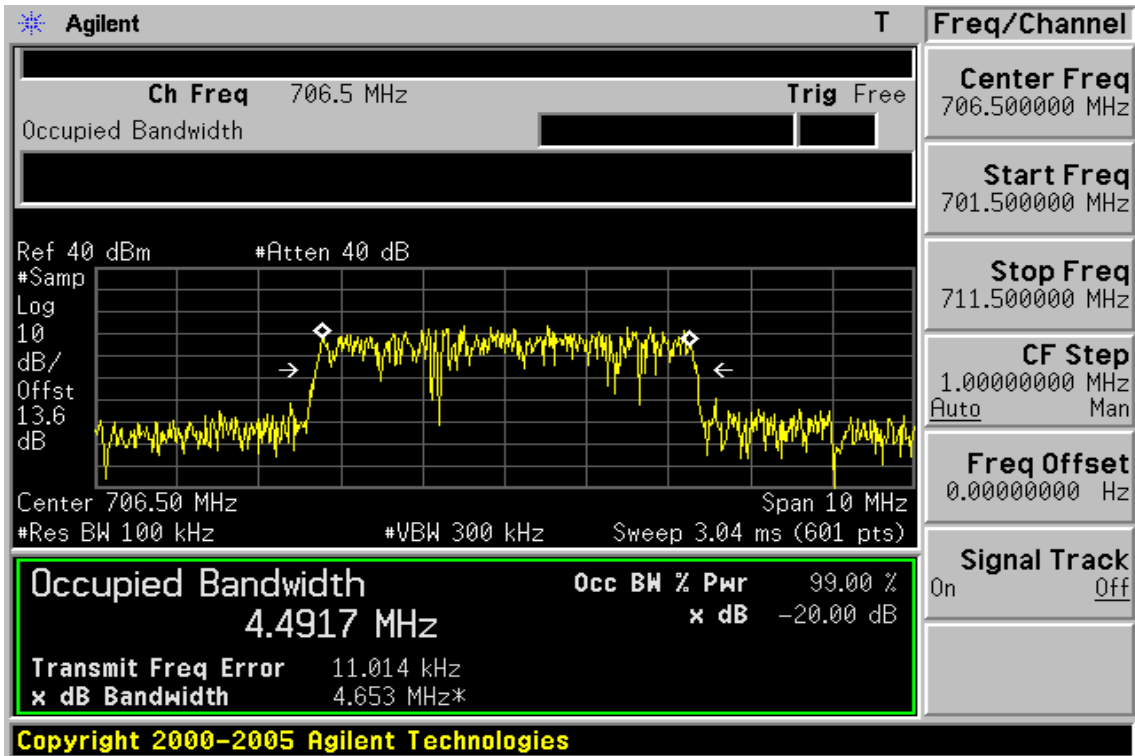
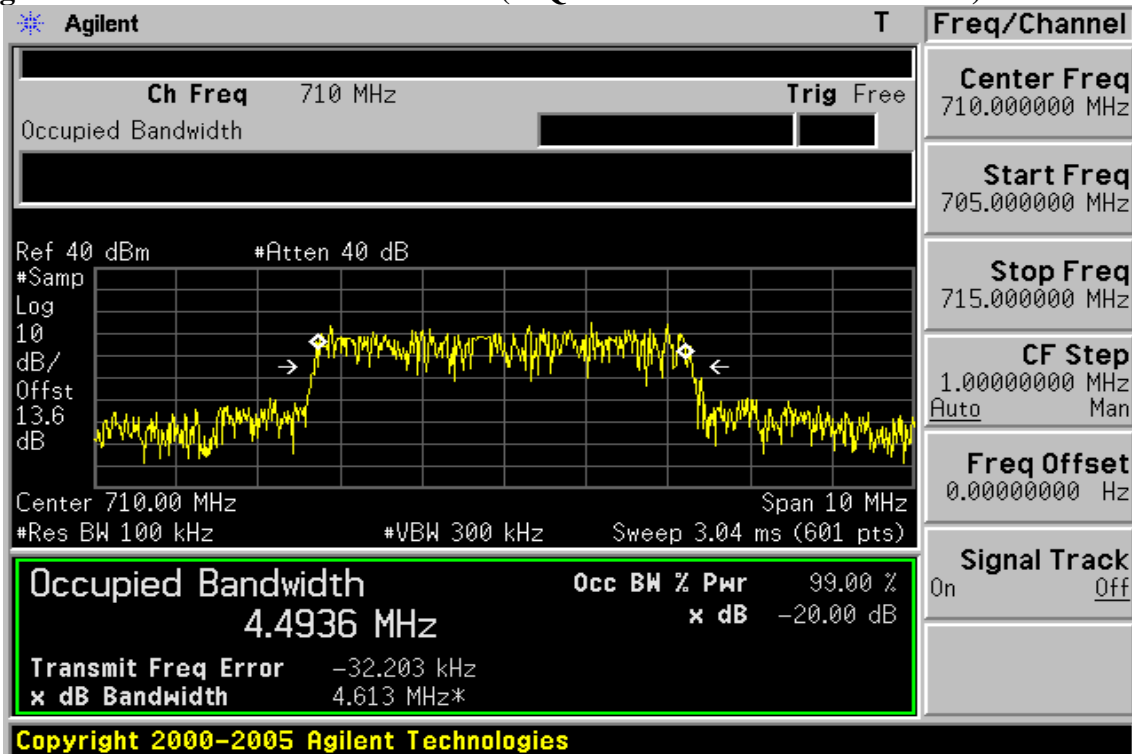


Figure 8-110: 5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel Mid



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Figure 8-111: 5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel High

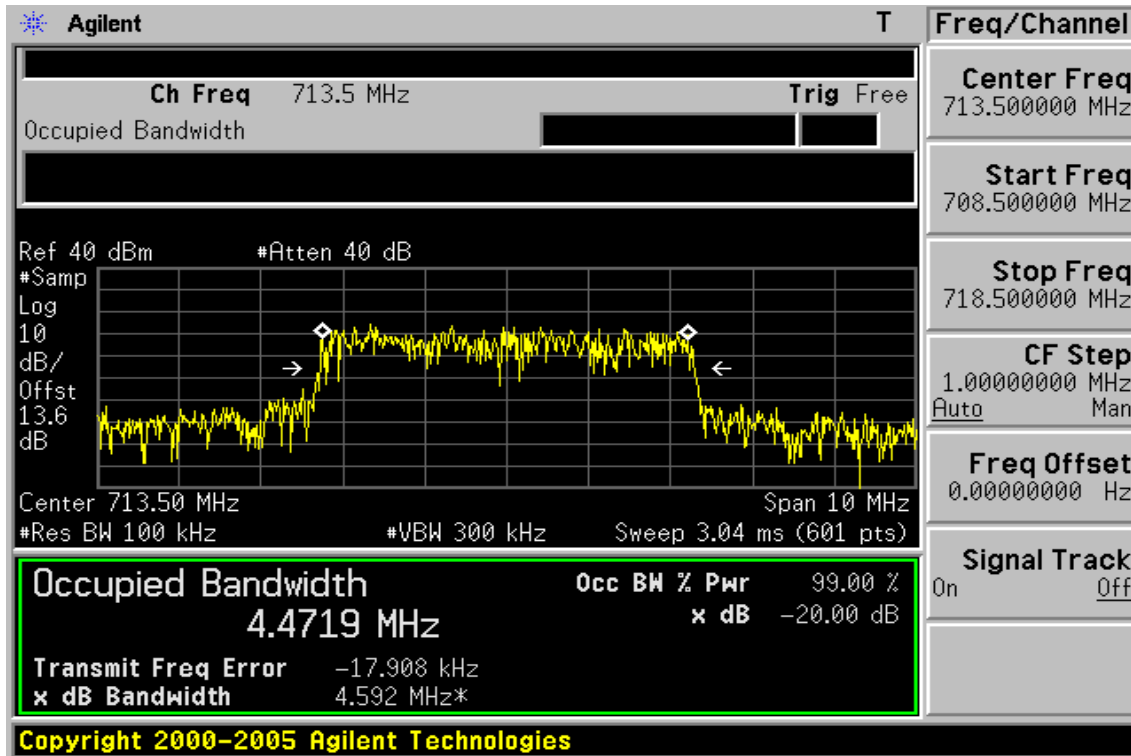
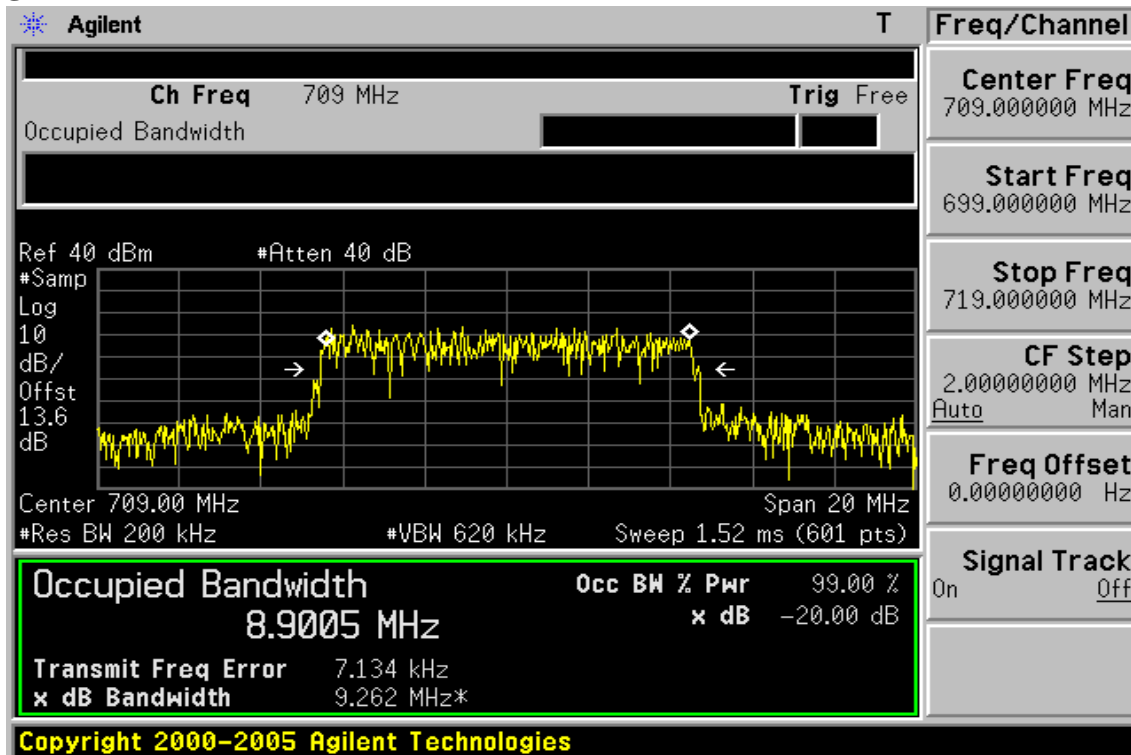


Figure 8-112: 10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Low



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Figure 8-113: 10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel Mid

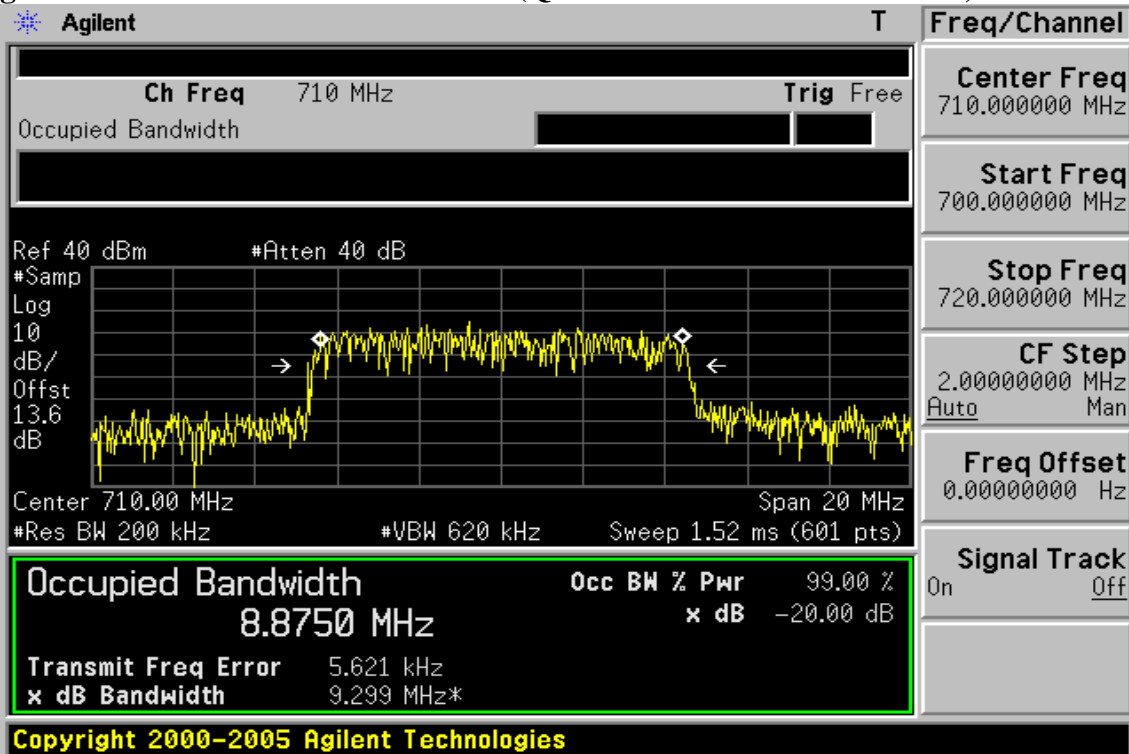
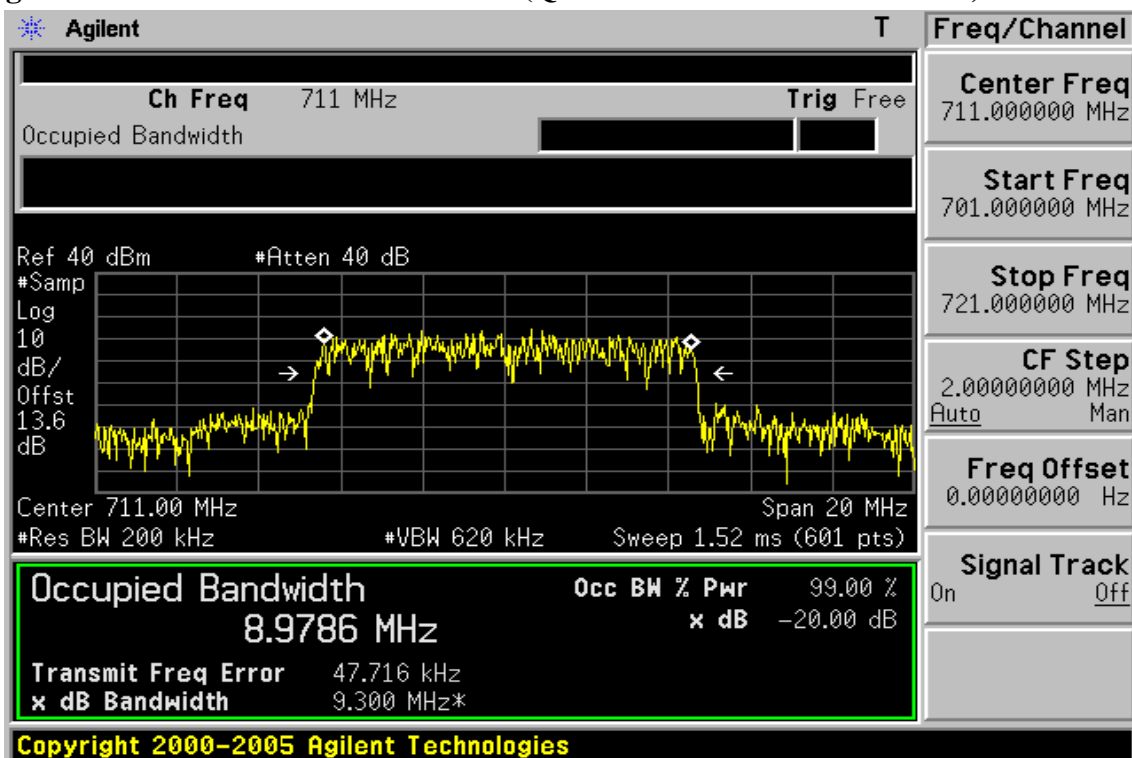


Figure 8-114: 10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel High



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Figure 8-115: 10MHz BW LTE-Band 17 (16QAM RB Number: 50 Offset: 0) Channel Low

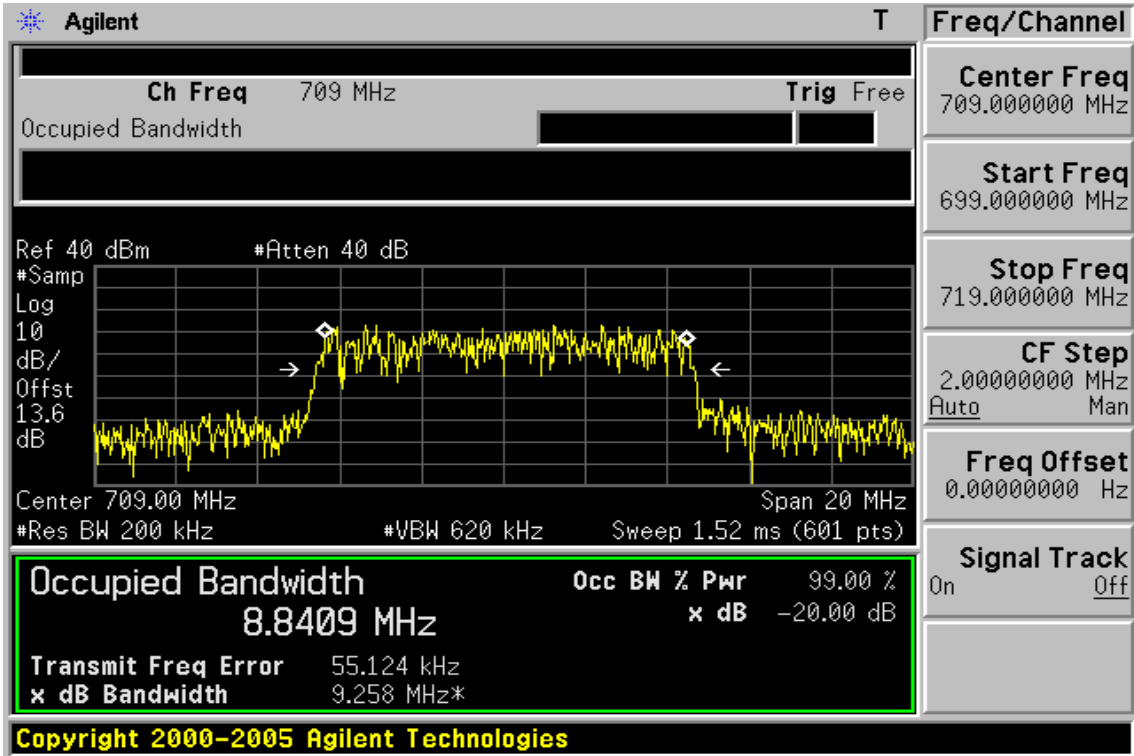
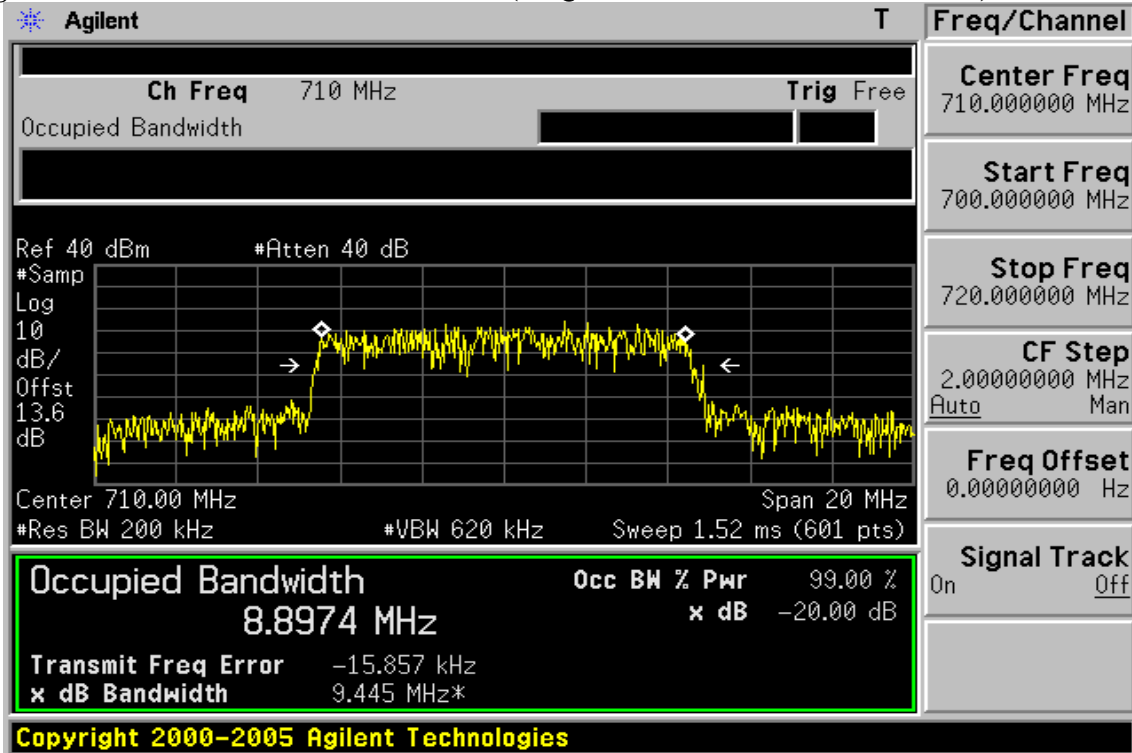


Figure 8-116: 10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel Mid



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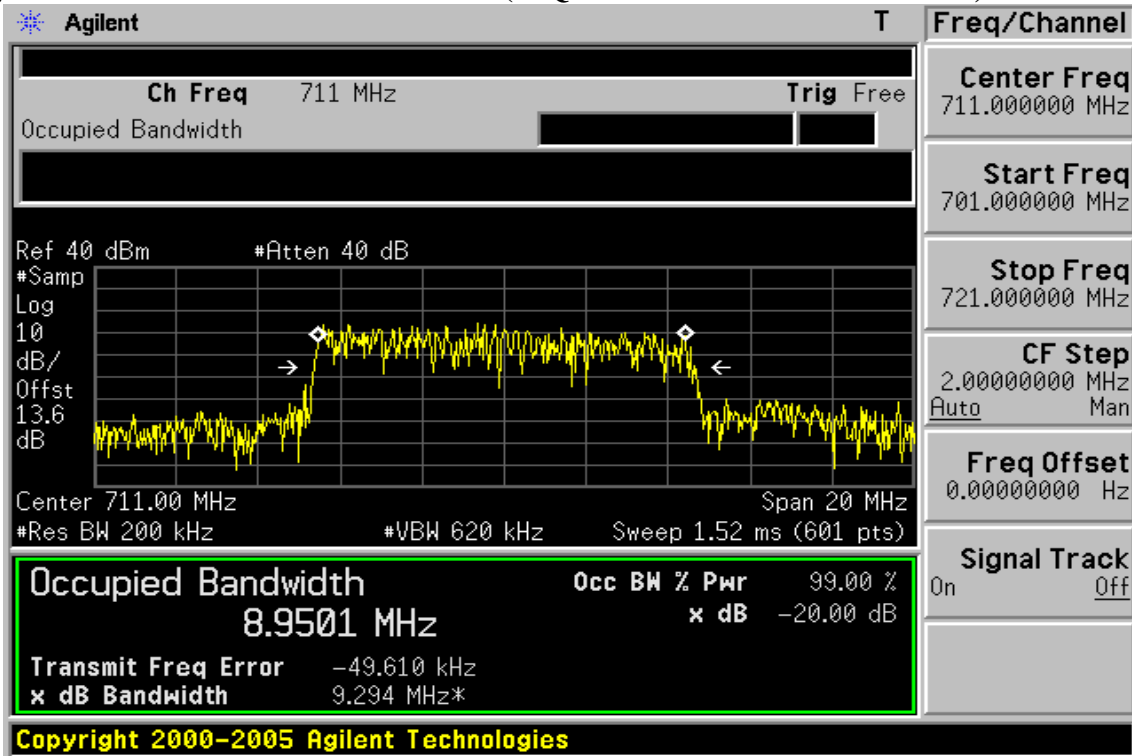
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Figure 8-117: 10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel High



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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), §27.53(g)(h) 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:

FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 megahertz from the channel edges. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees

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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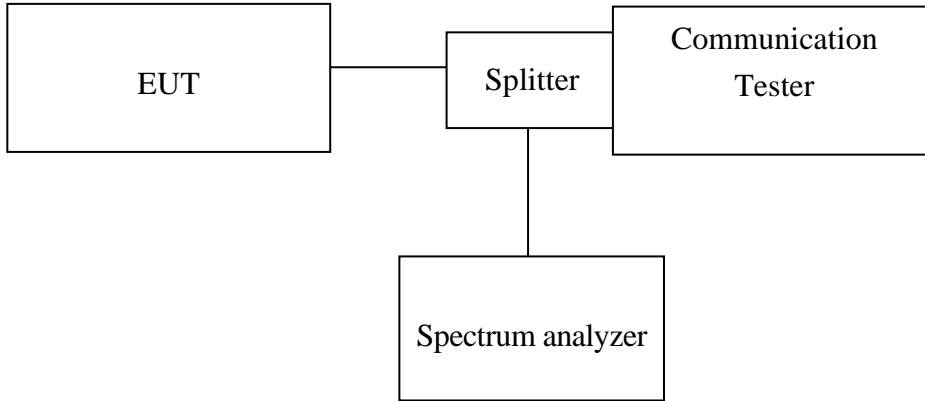
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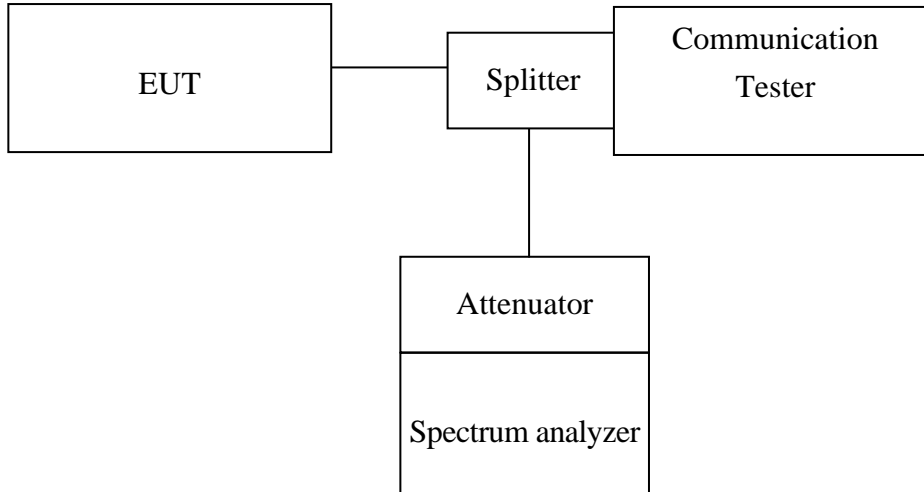
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9.2. Test SET-UP:

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.

h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. Limit, -13dBm

(1) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. 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.

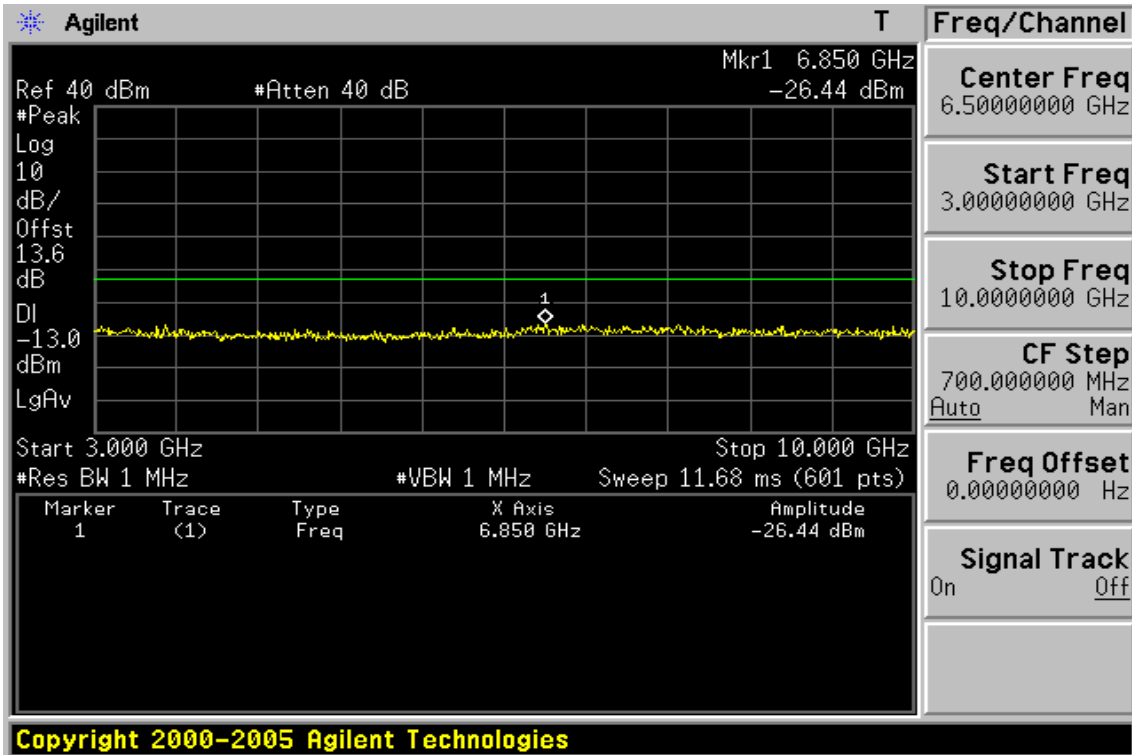
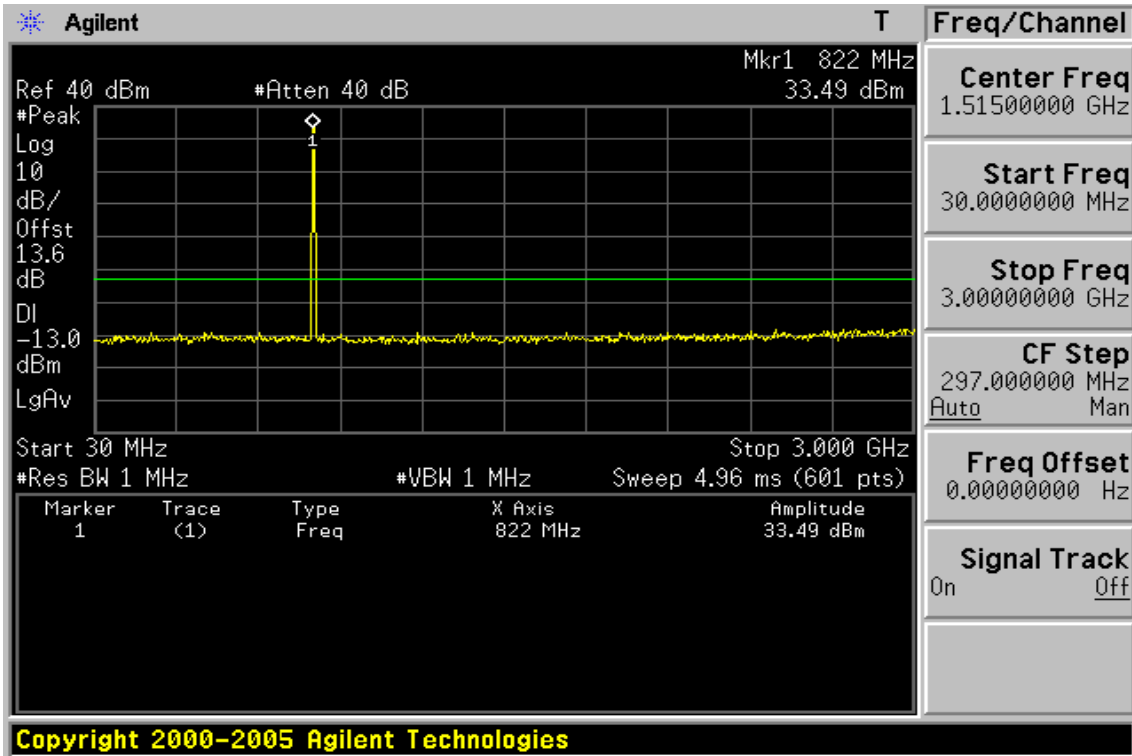
NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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



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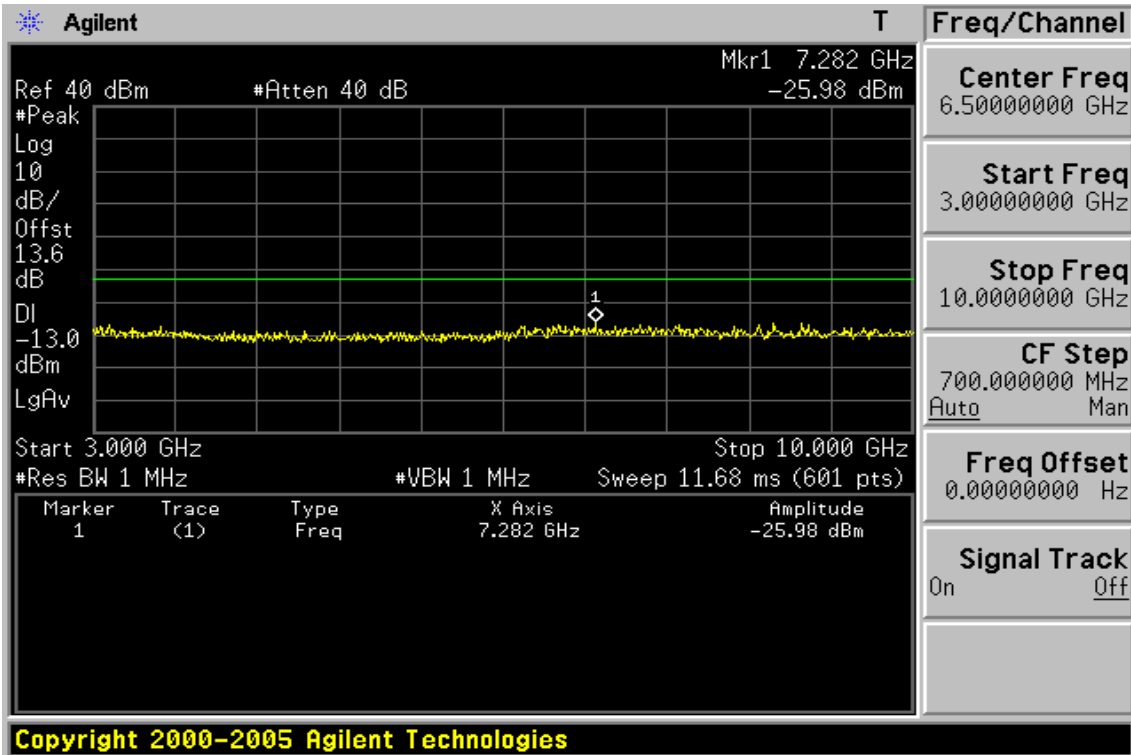
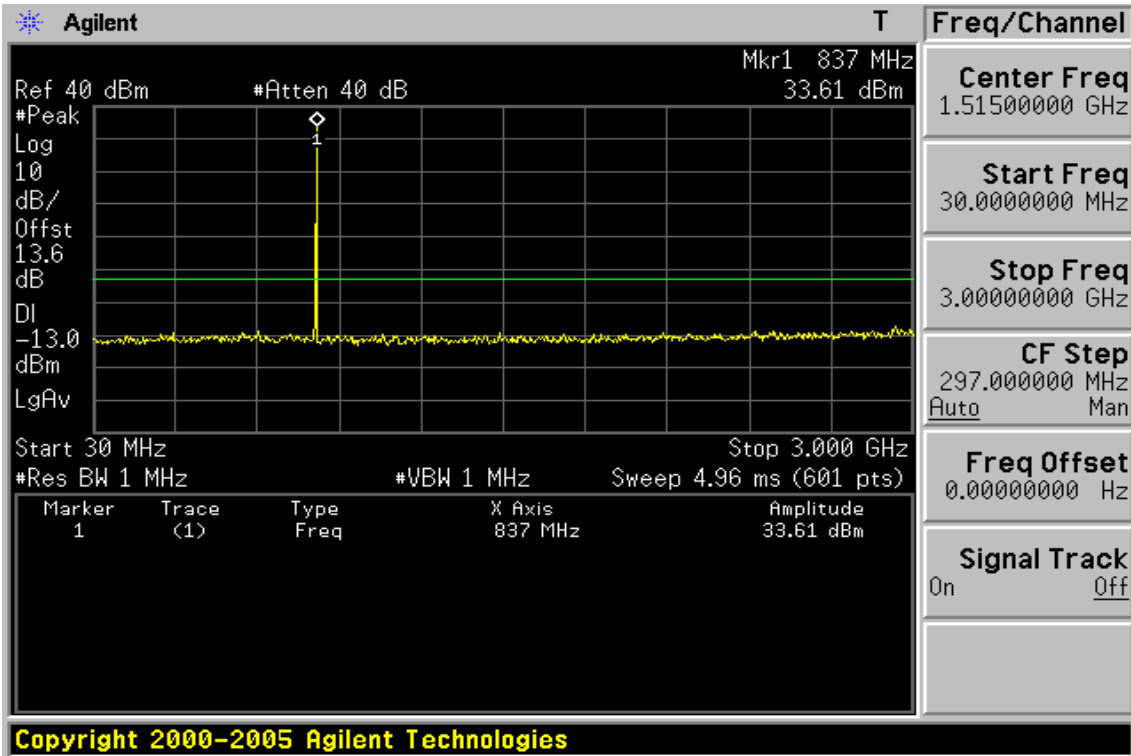
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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid



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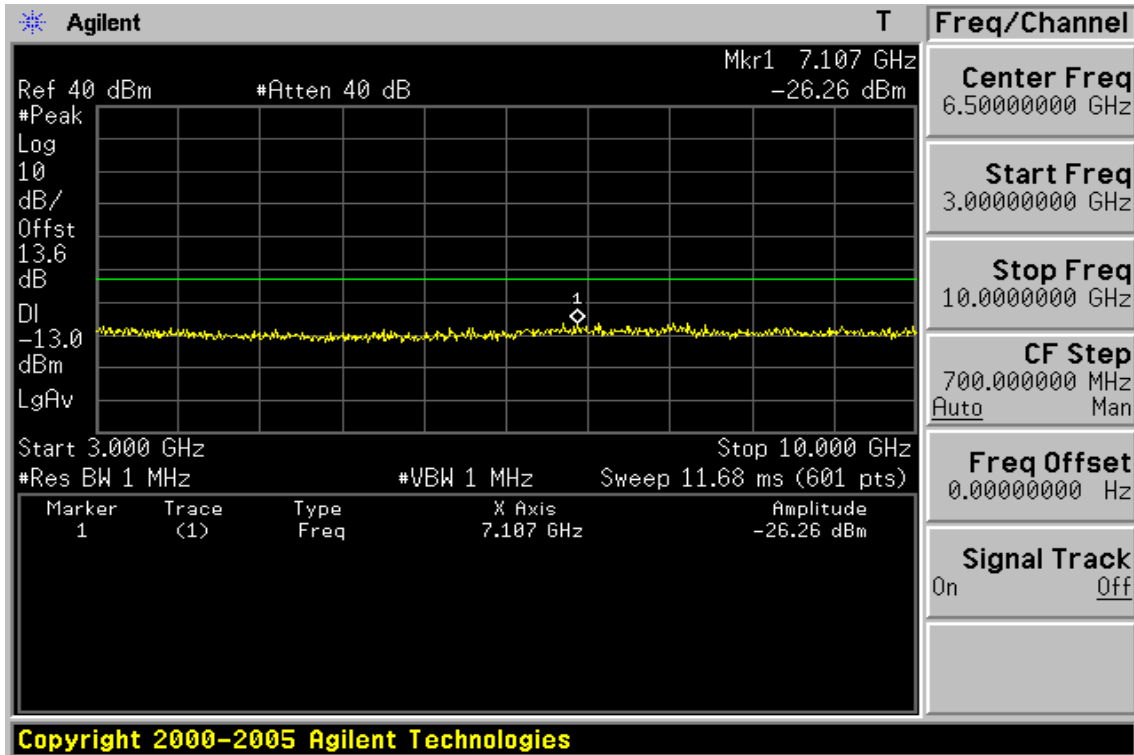
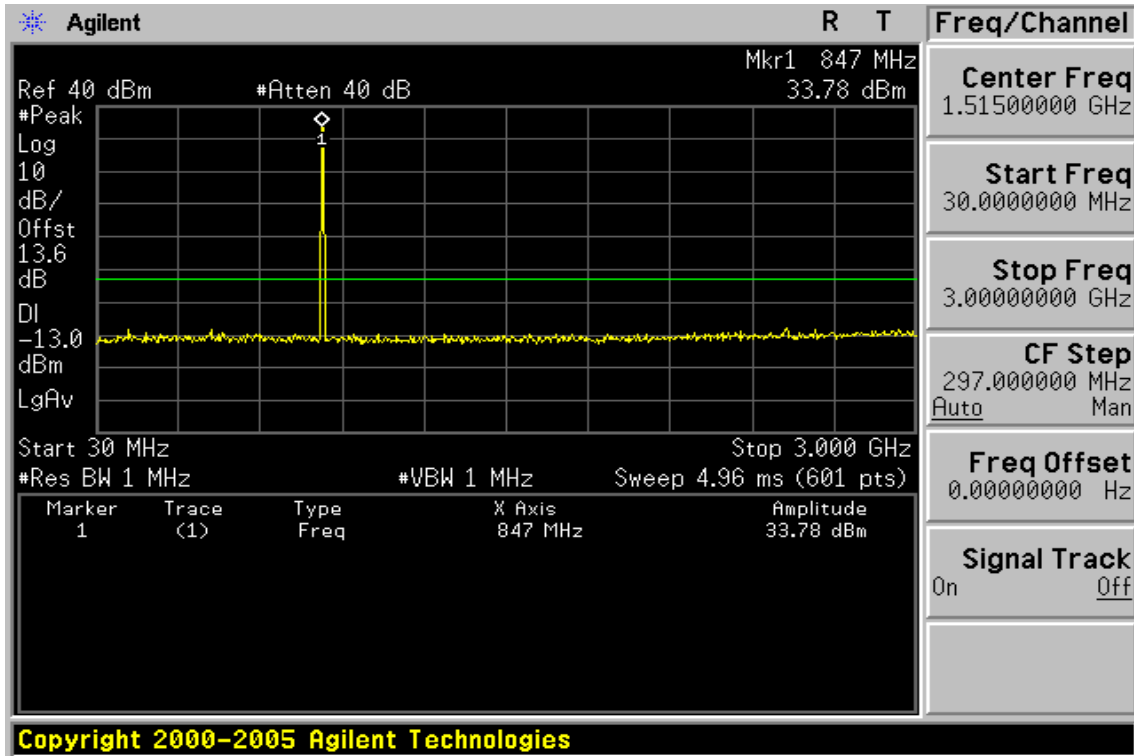
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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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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	---
6850.00	S	-26.44	-13.00	13.44
7417.80	H	---	-13.00	---
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	---
7282.00	S	-25.98	-13.00	12.98
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	---
7107.00	S	-26.26	-13.00	13.26
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

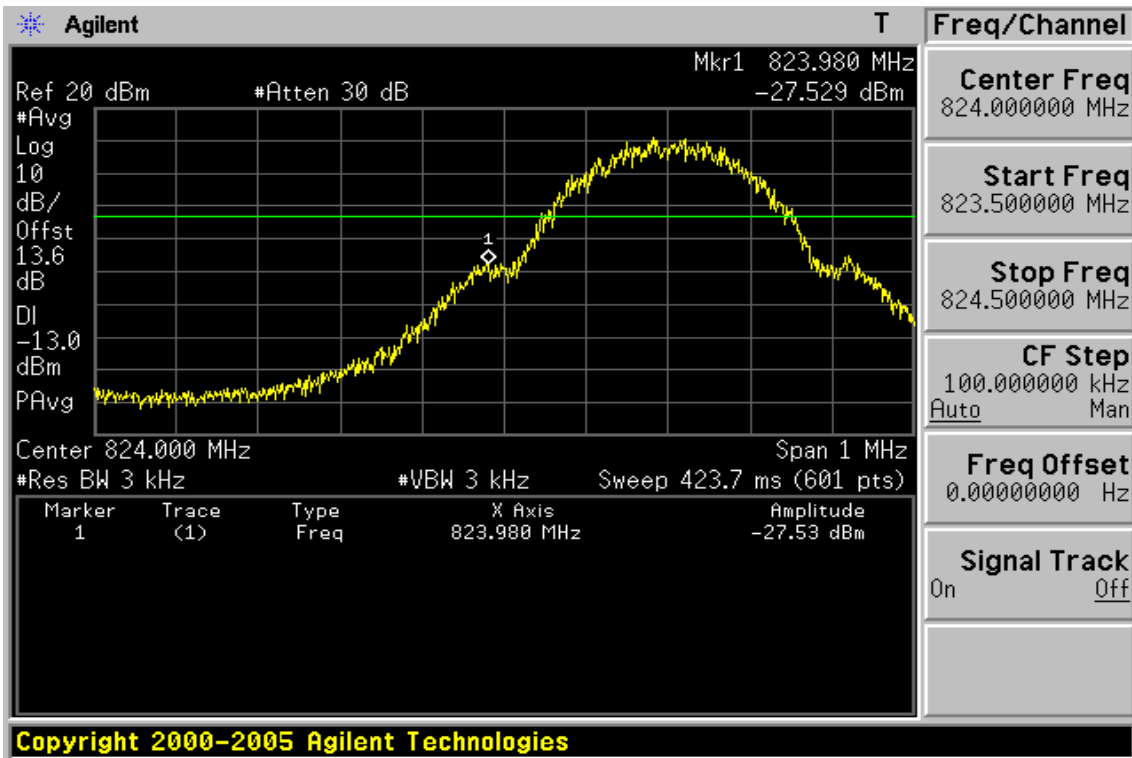
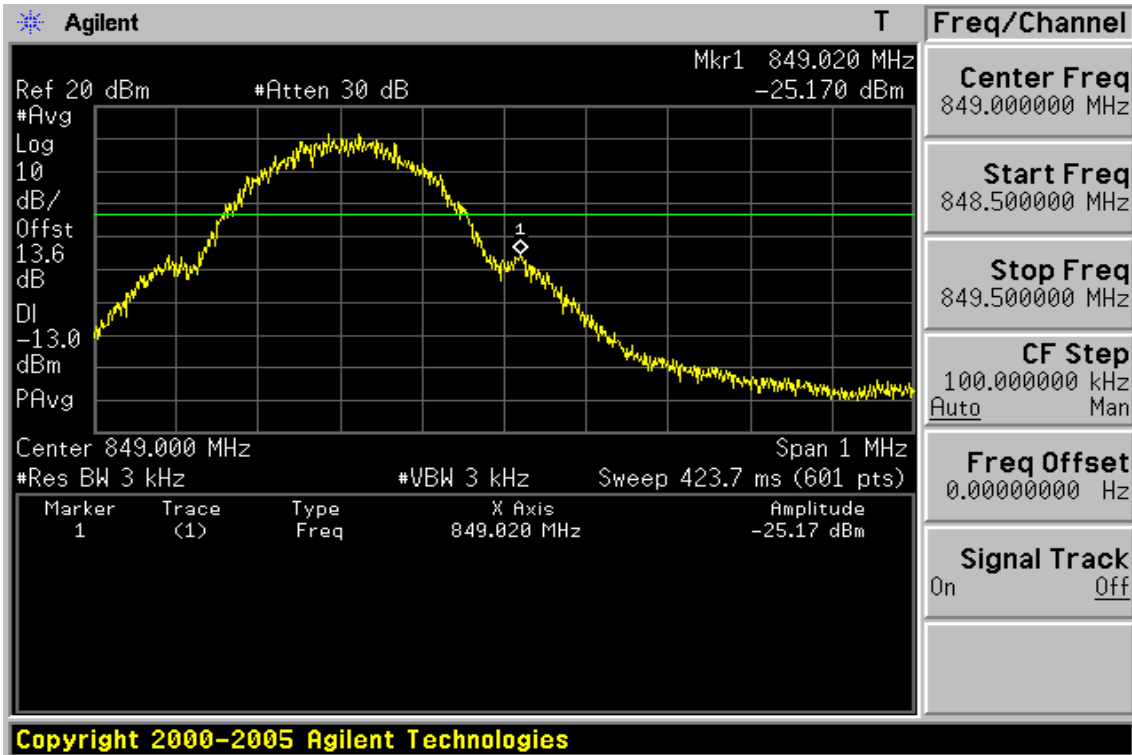


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



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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
823.980	-27.53	-13.00	14.53
849.020	-25.17	-13.00	12.17

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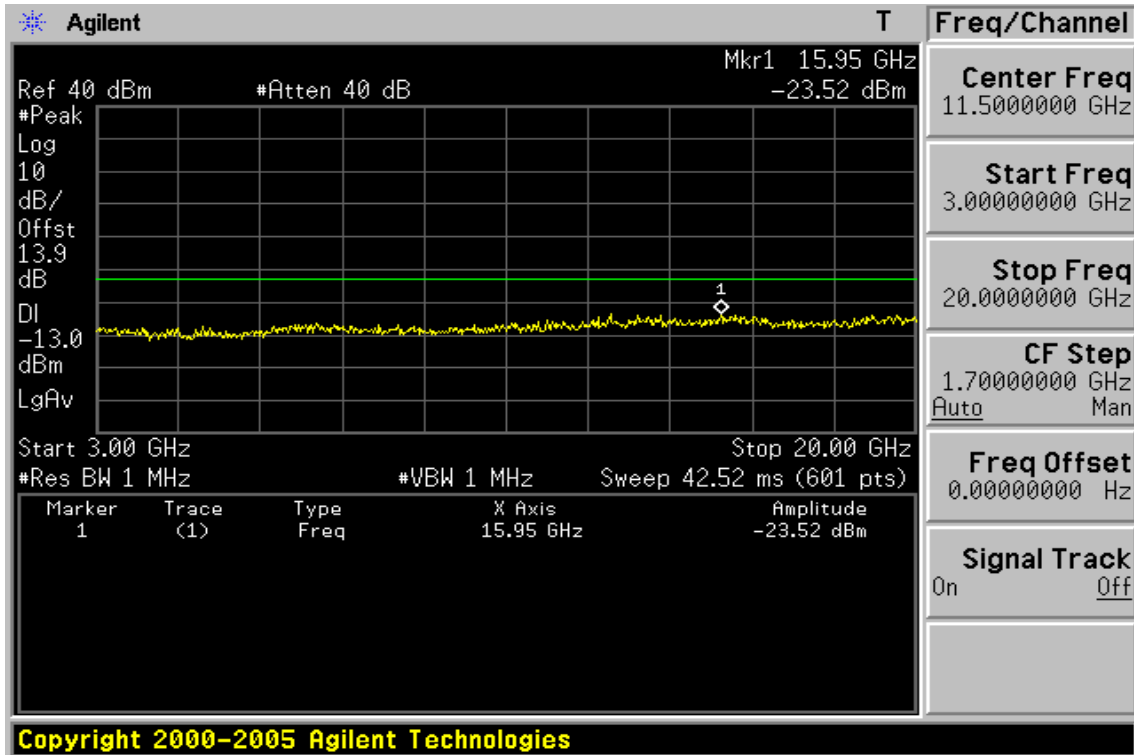
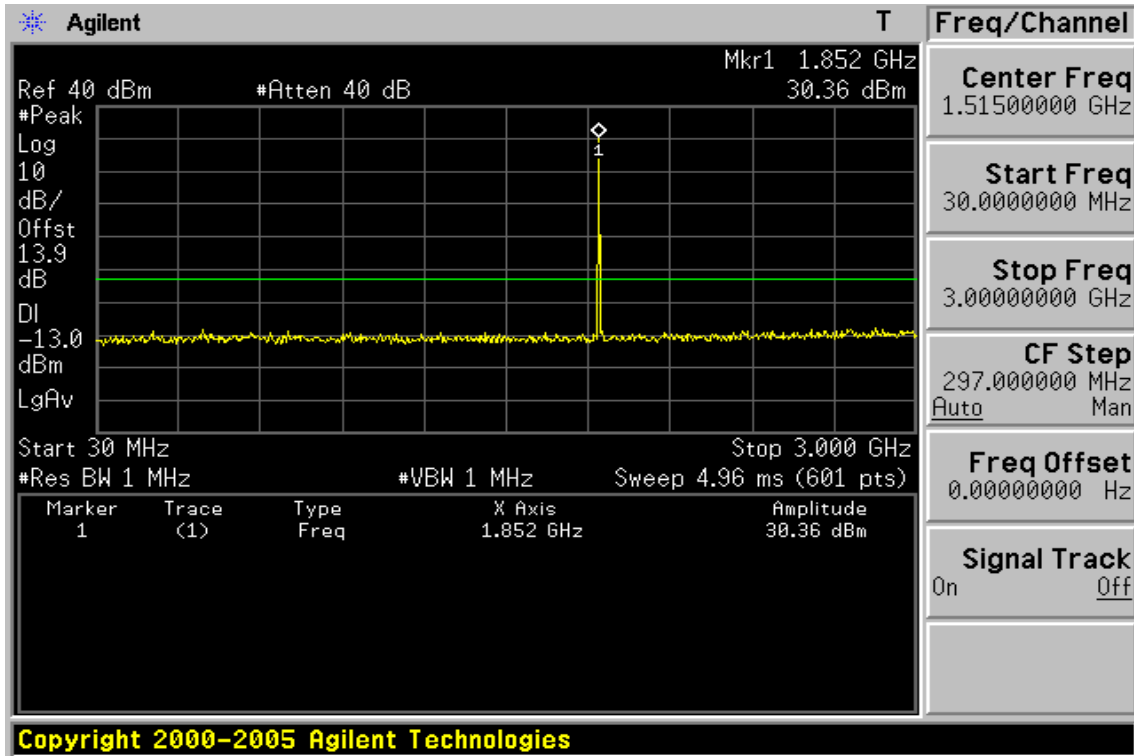
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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest



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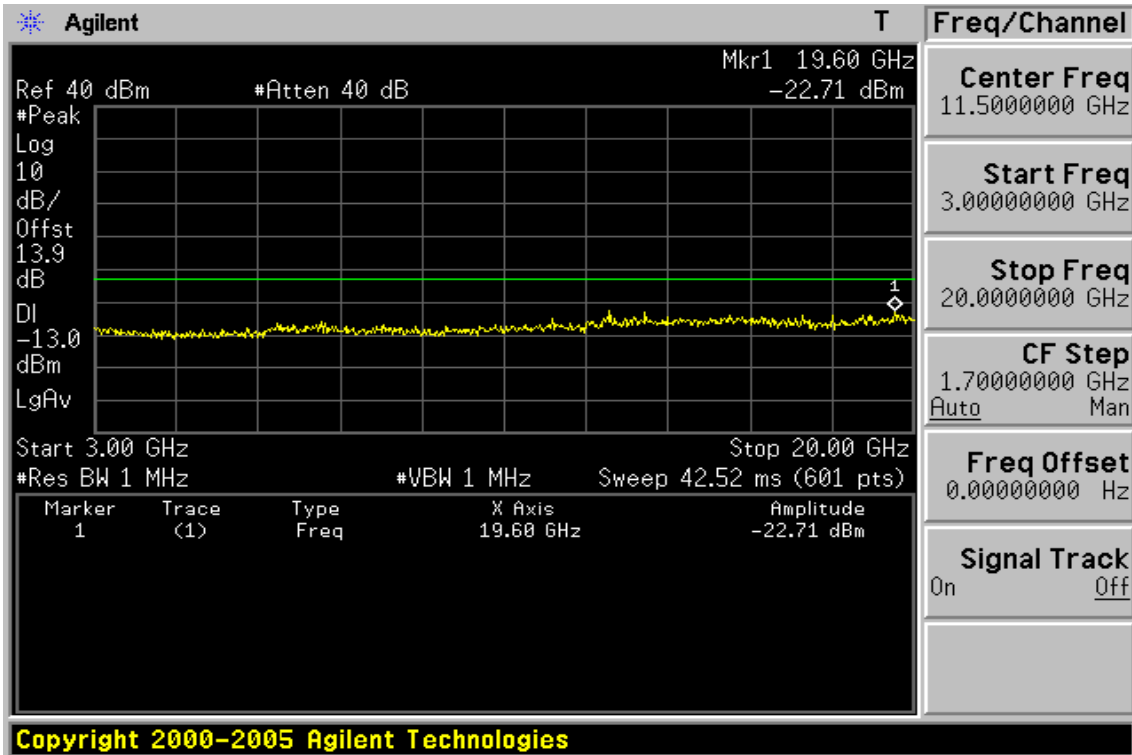
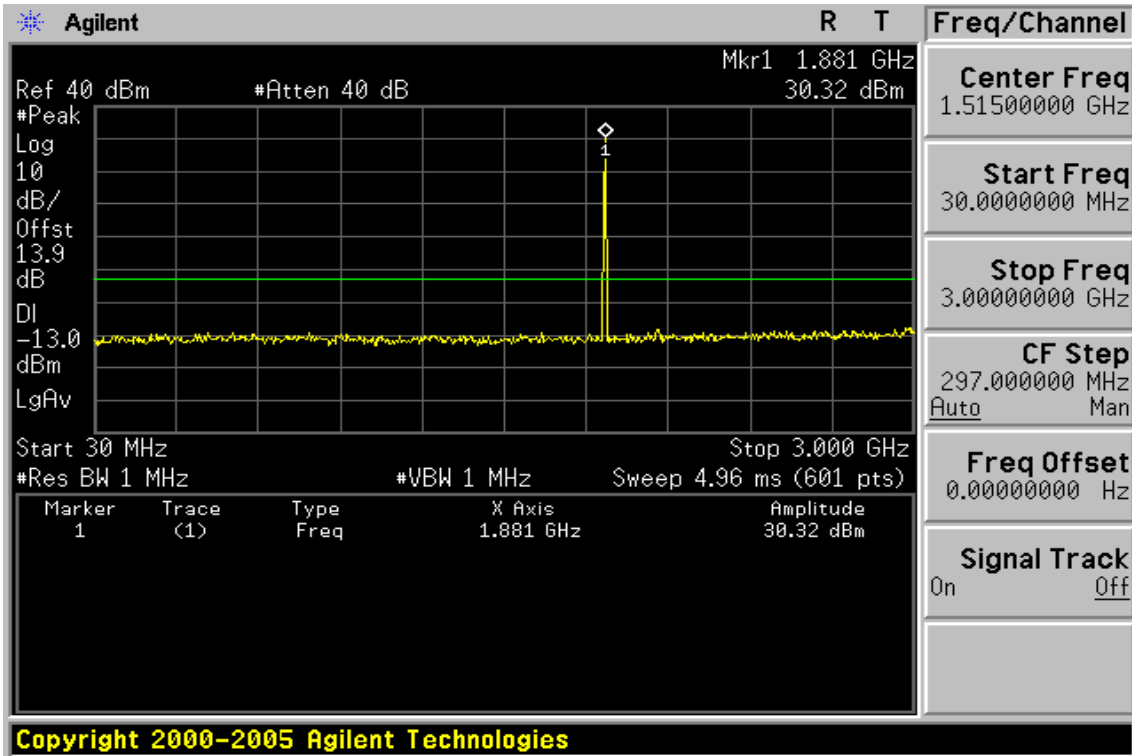
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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid

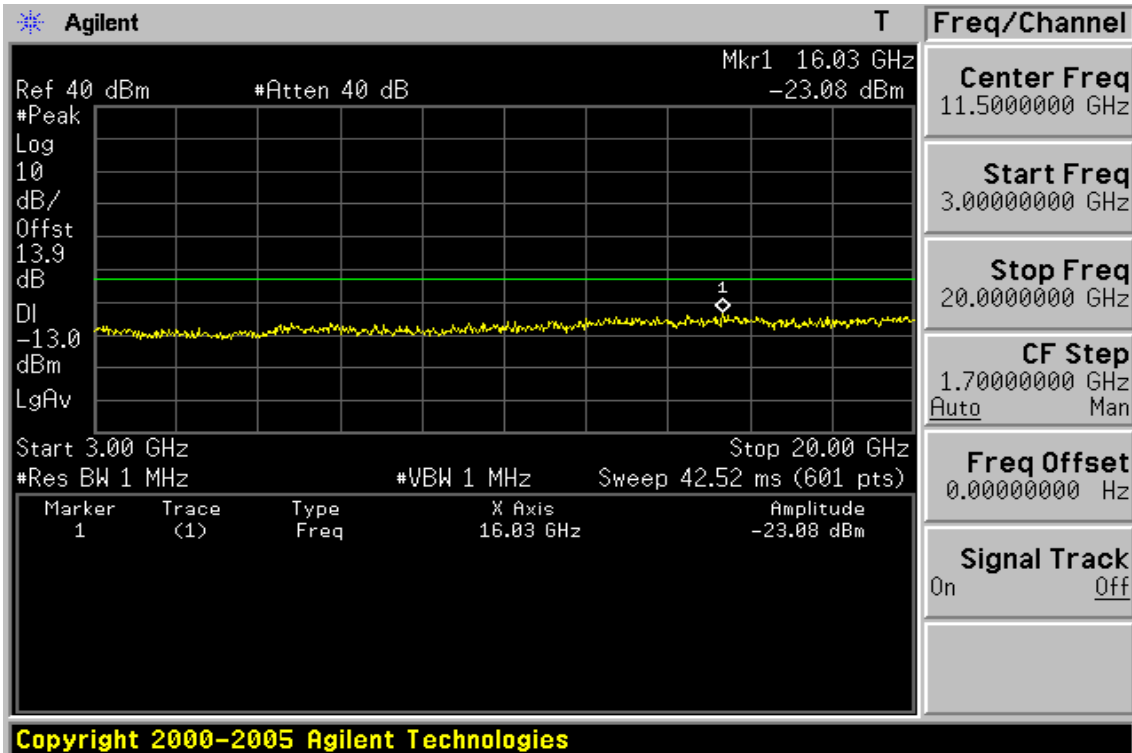
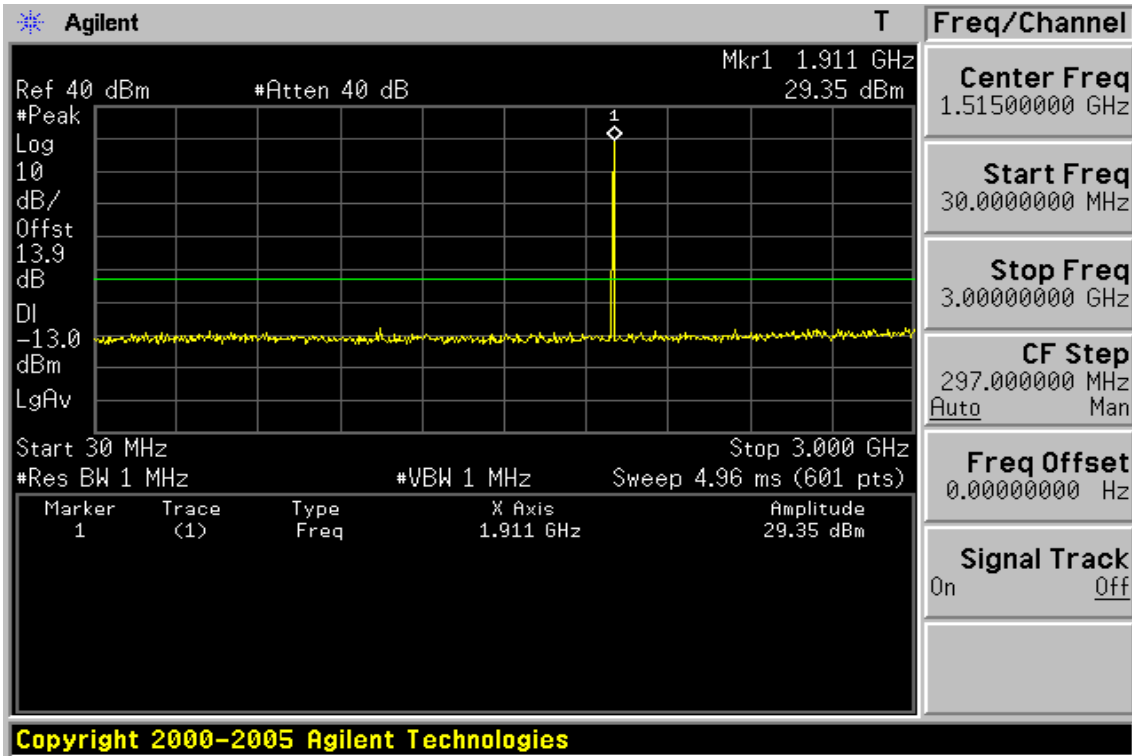


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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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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	---
15950.00	S	-23.52	-13.00	10.52
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	---
19600.00	S	-22.71	-13.00	9.71

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	---
16030.00	S	-23.08	-13.00	10.08
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 9-9: Band edge emission at antenna terminals – GSM 1900 Channel Lowest

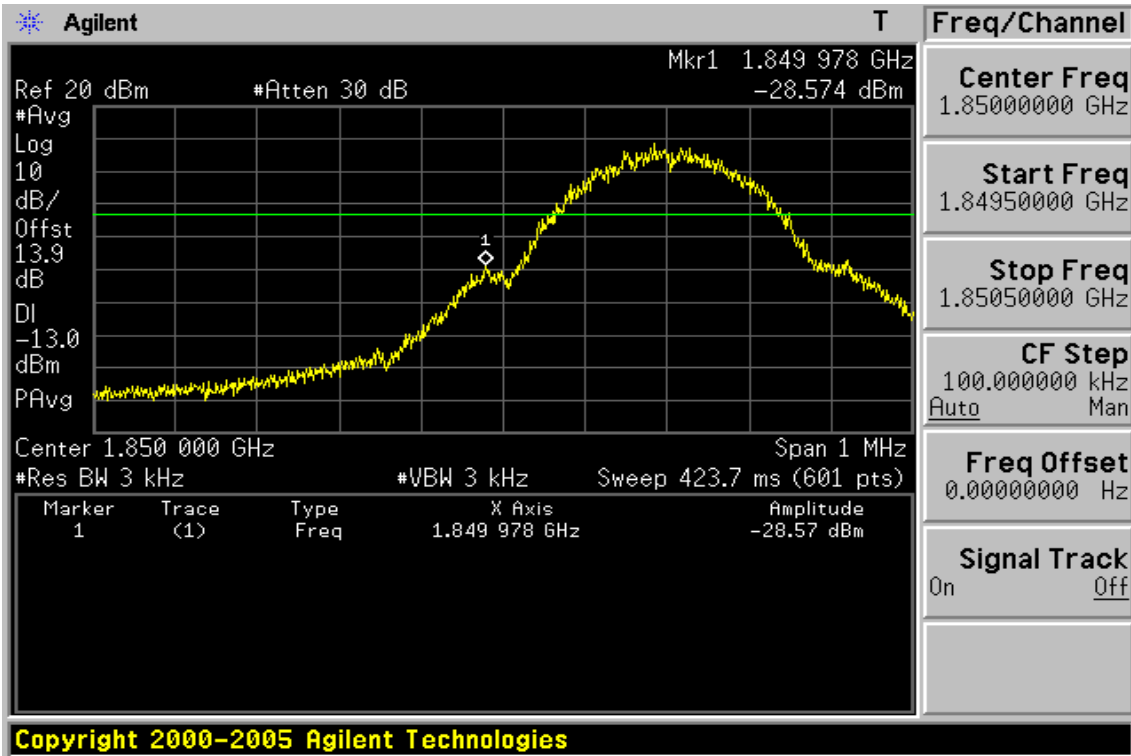
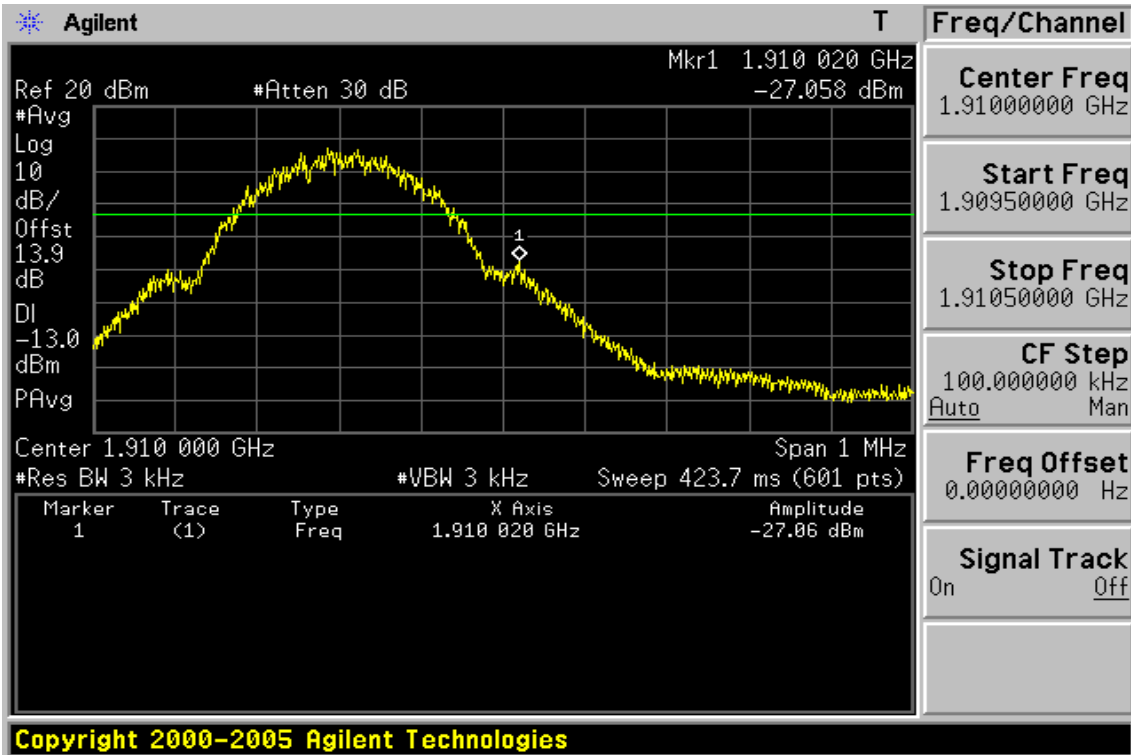


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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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	-28.57	-13.00	15.57
1910.020	-27.06	-13.00	14.06

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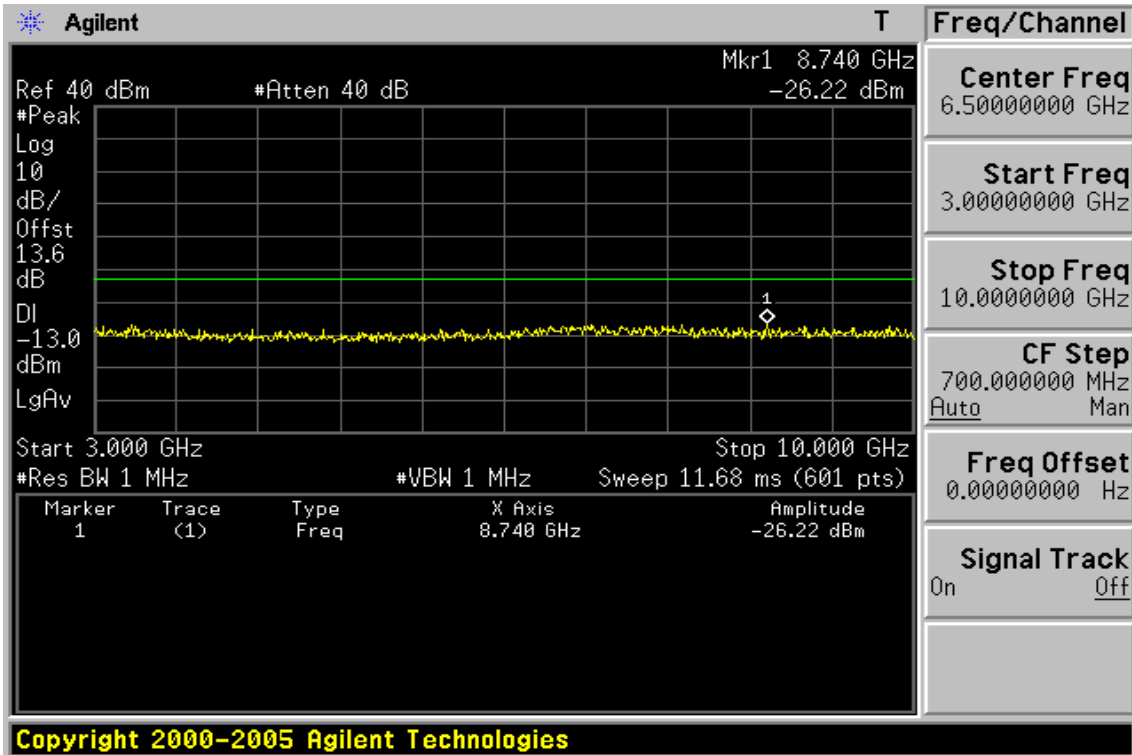
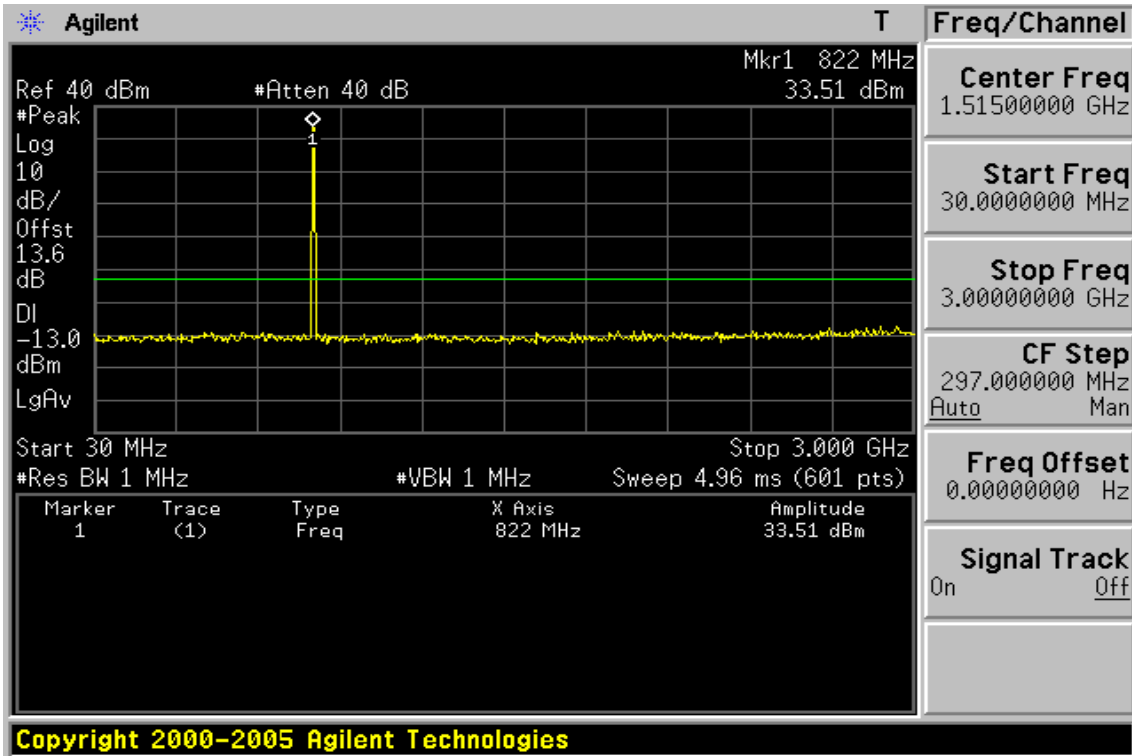
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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



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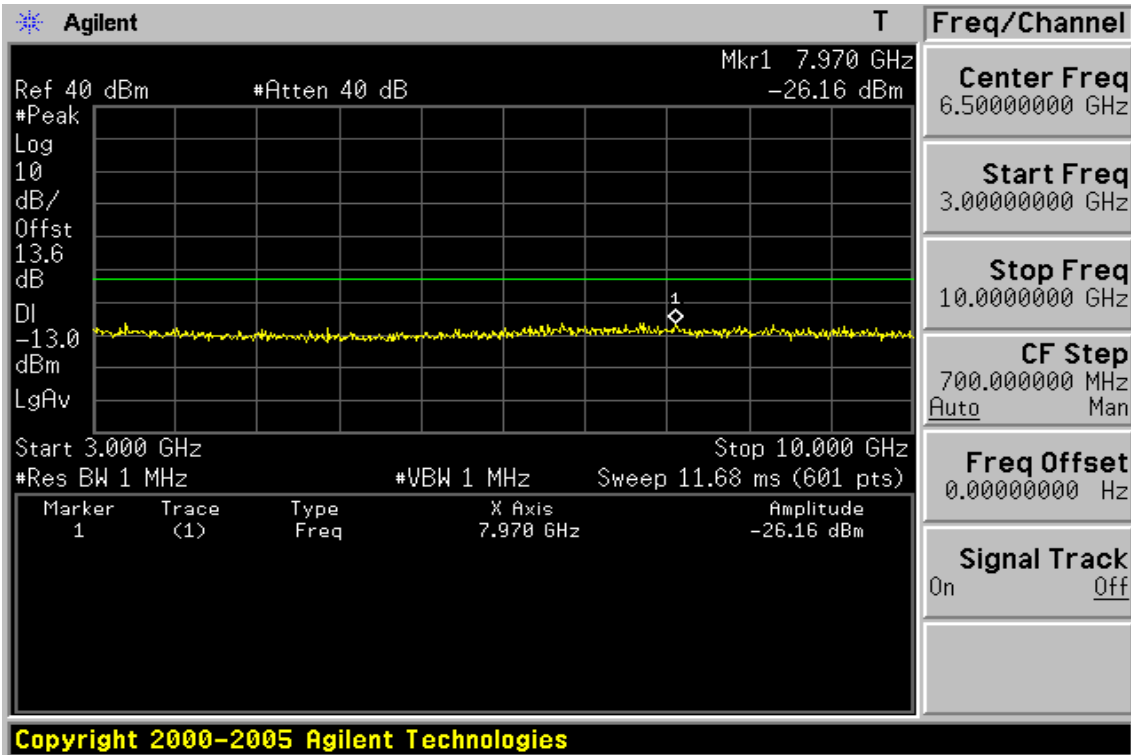
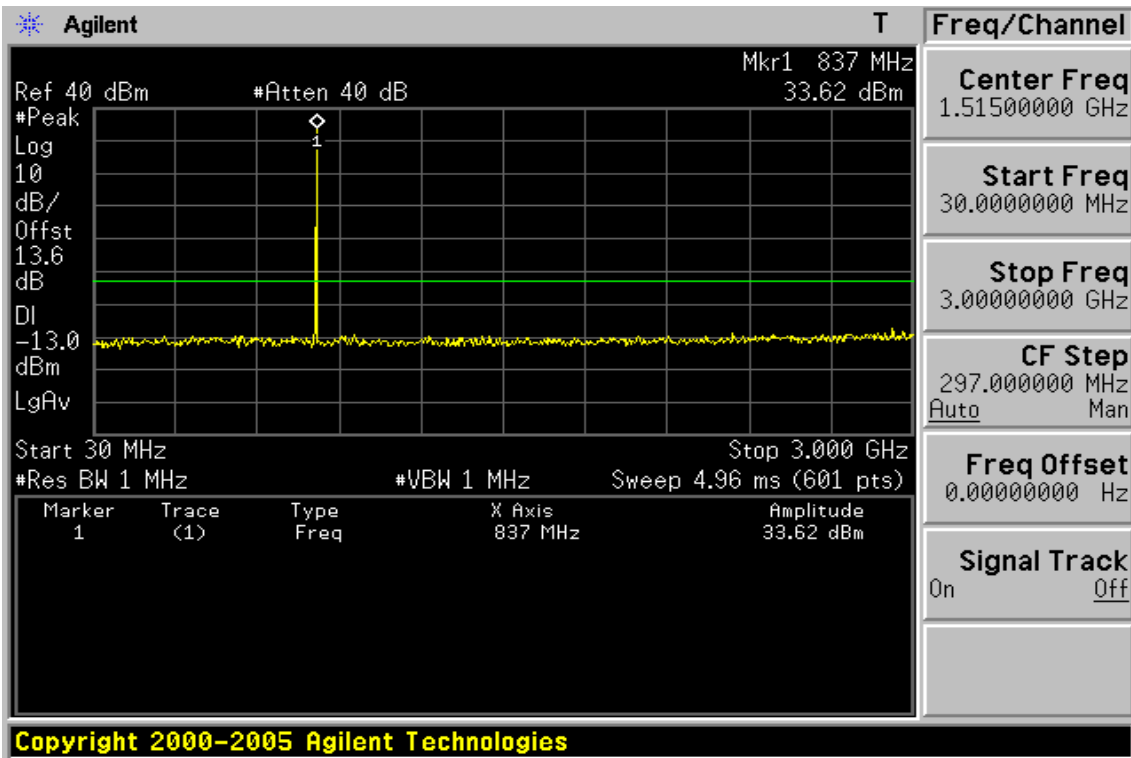
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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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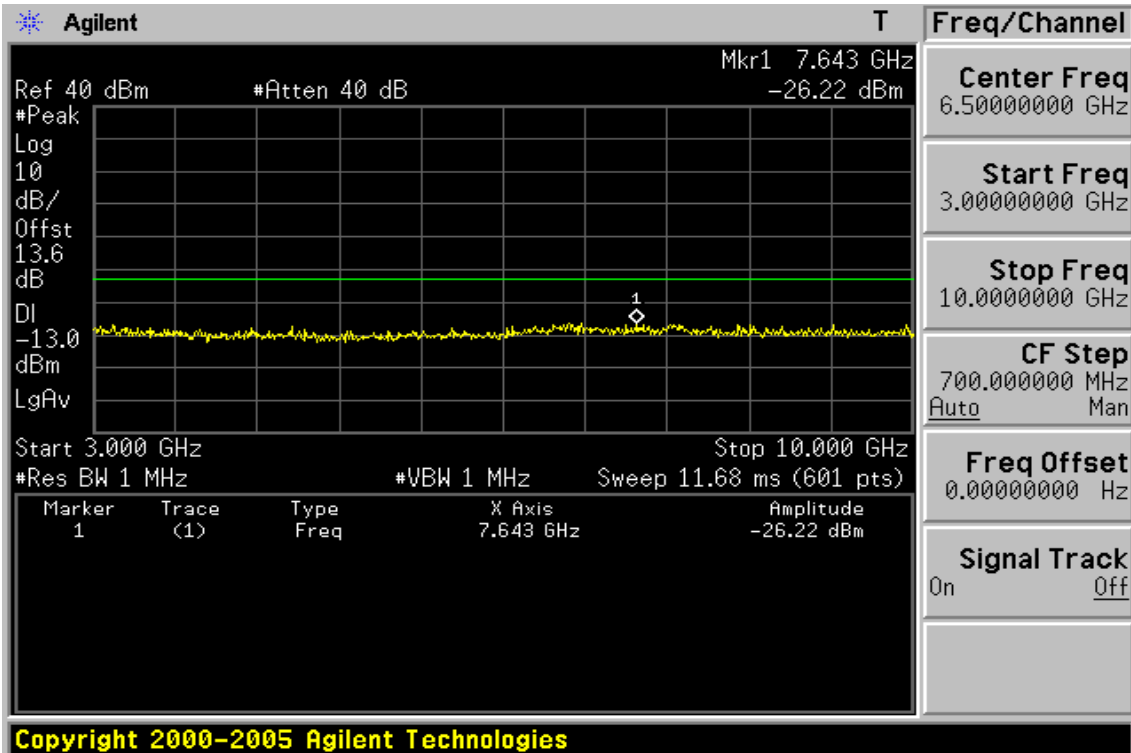
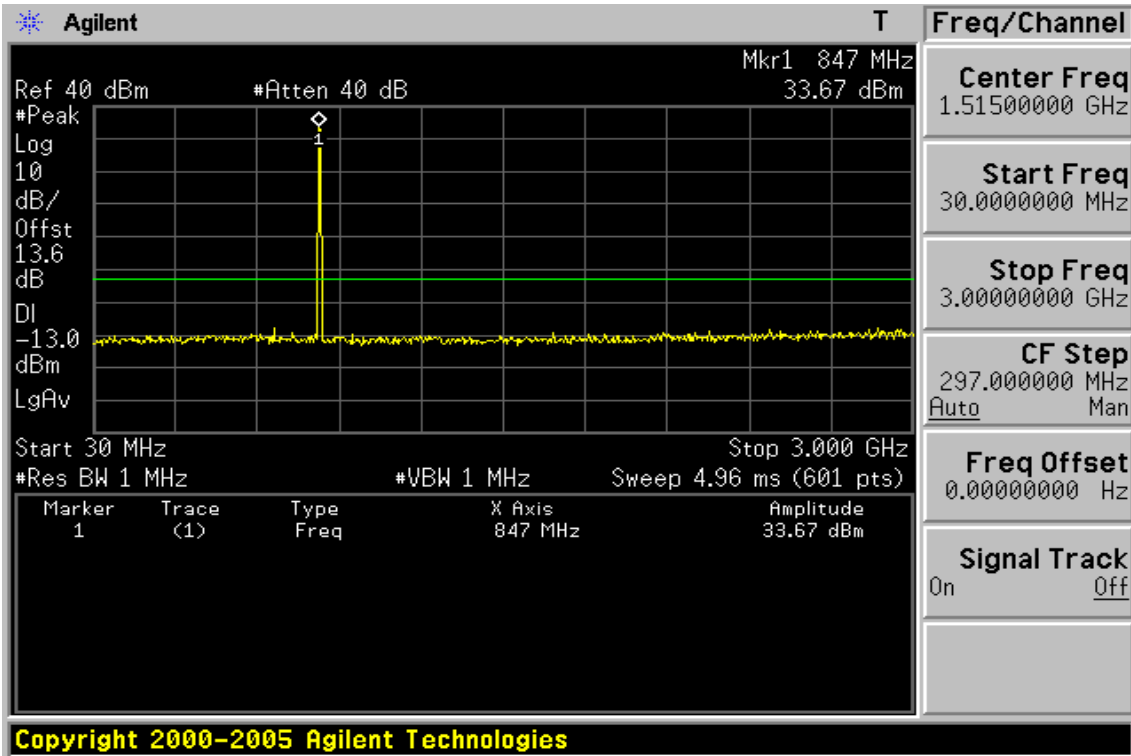
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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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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	---
8740.00	S	-26.22	-13.00	13.22

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	---
7970.00	S	-26.16	-13.00	13.16
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	---
7639.20	H	---	-13.00	---
7643.00	S	-26.22	-13.00	13.22
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

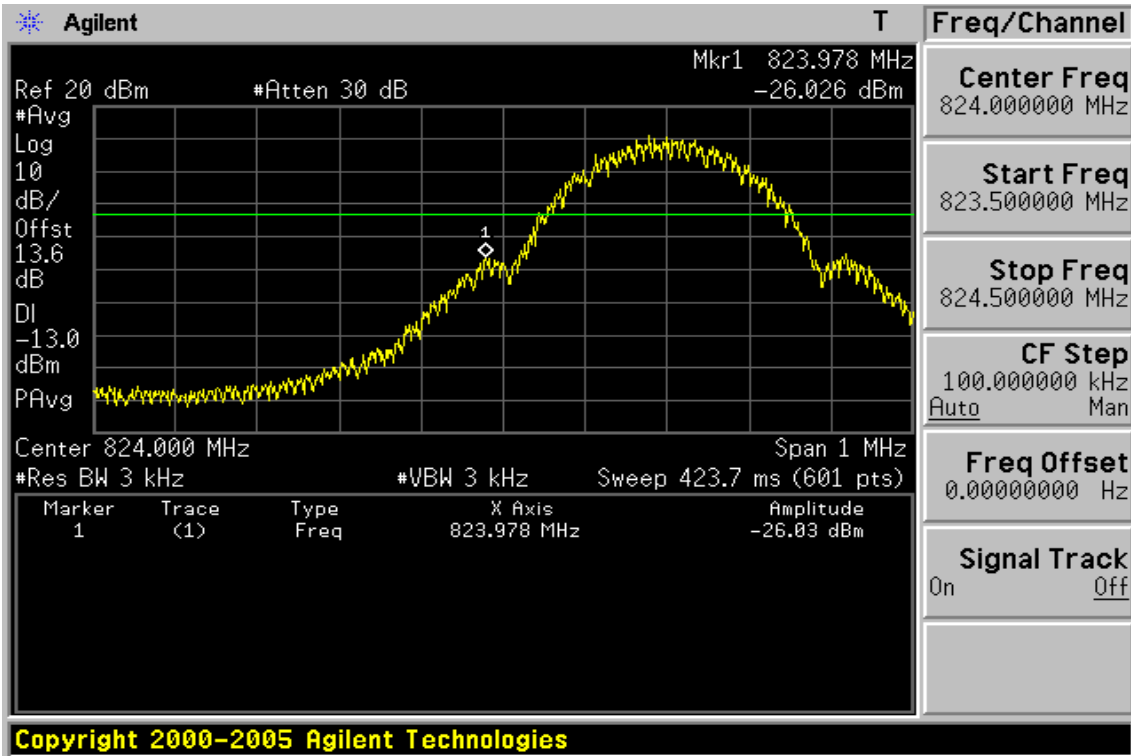
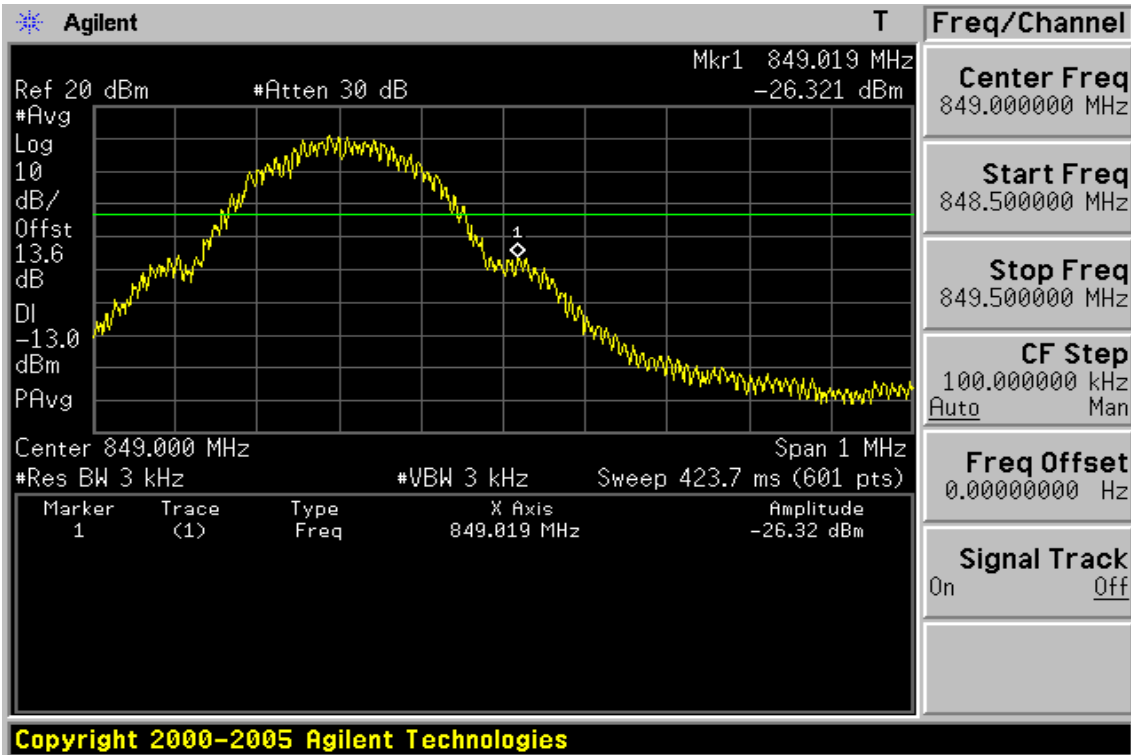


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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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
823.978	-26.03	-13.00	13.03
849.019	-26.32	-13.00	13.32

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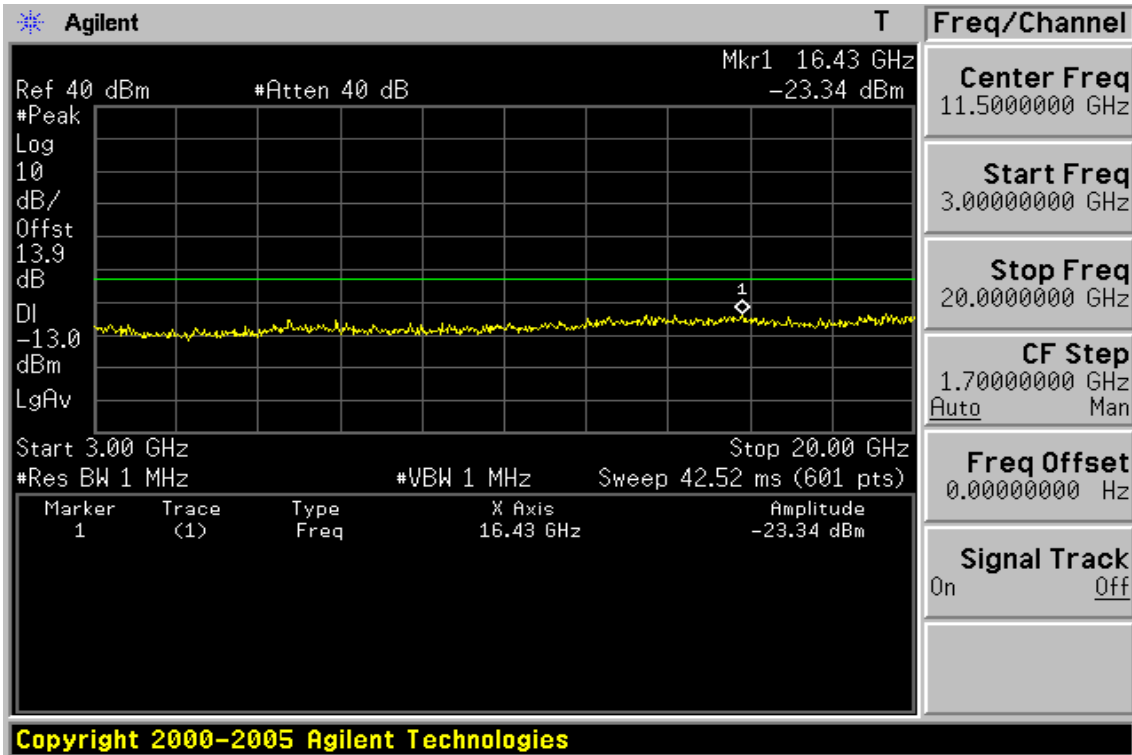
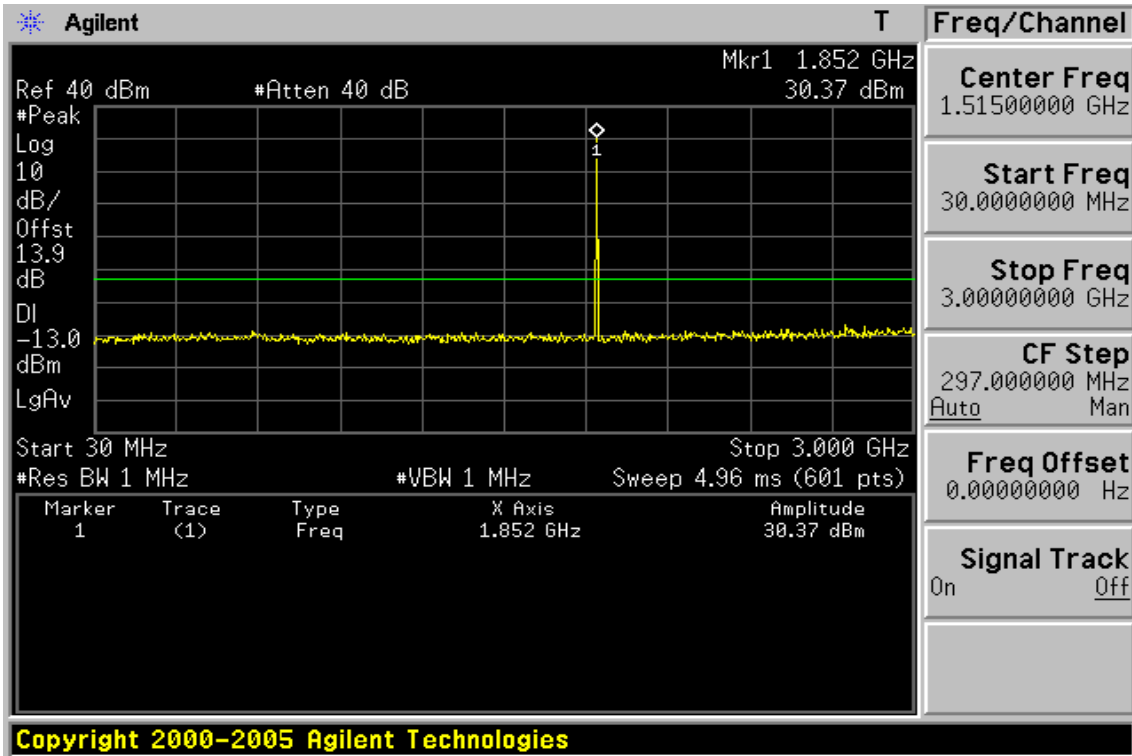
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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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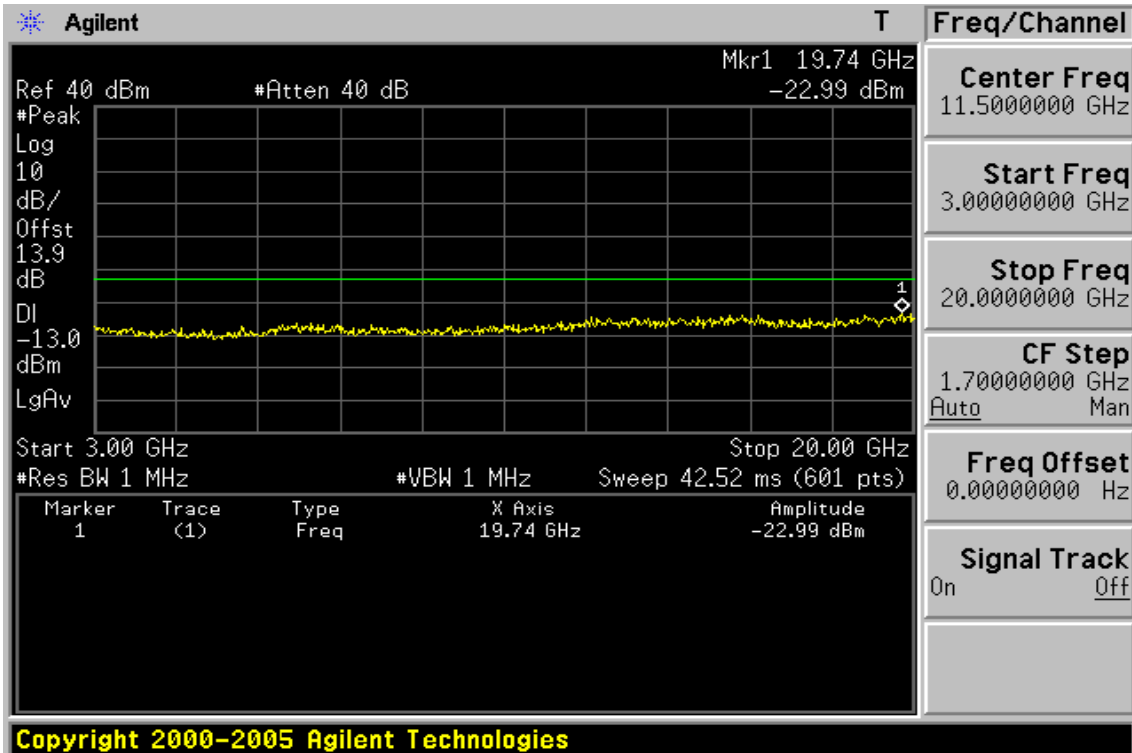
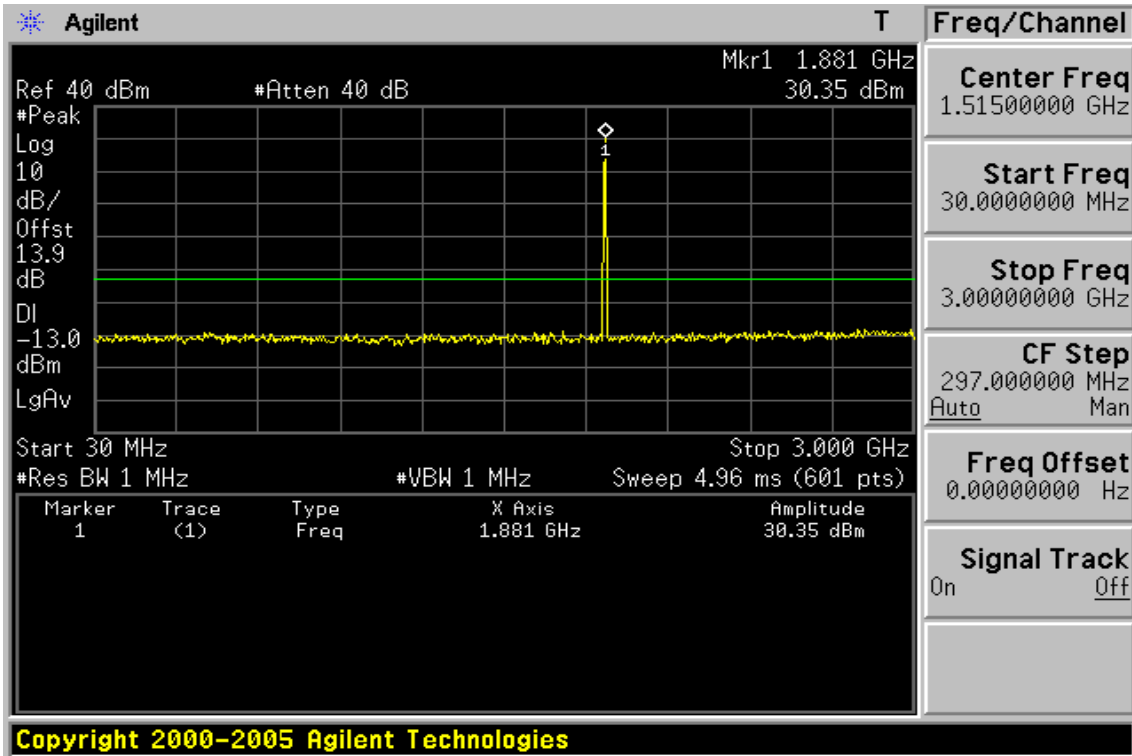
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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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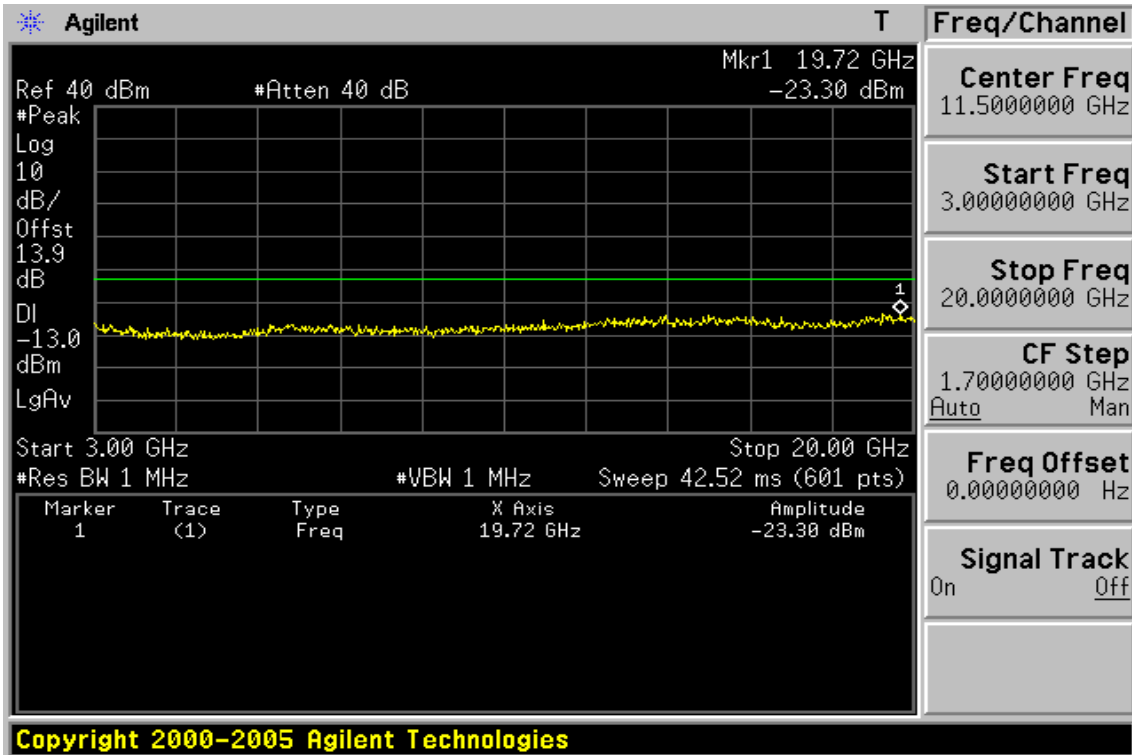
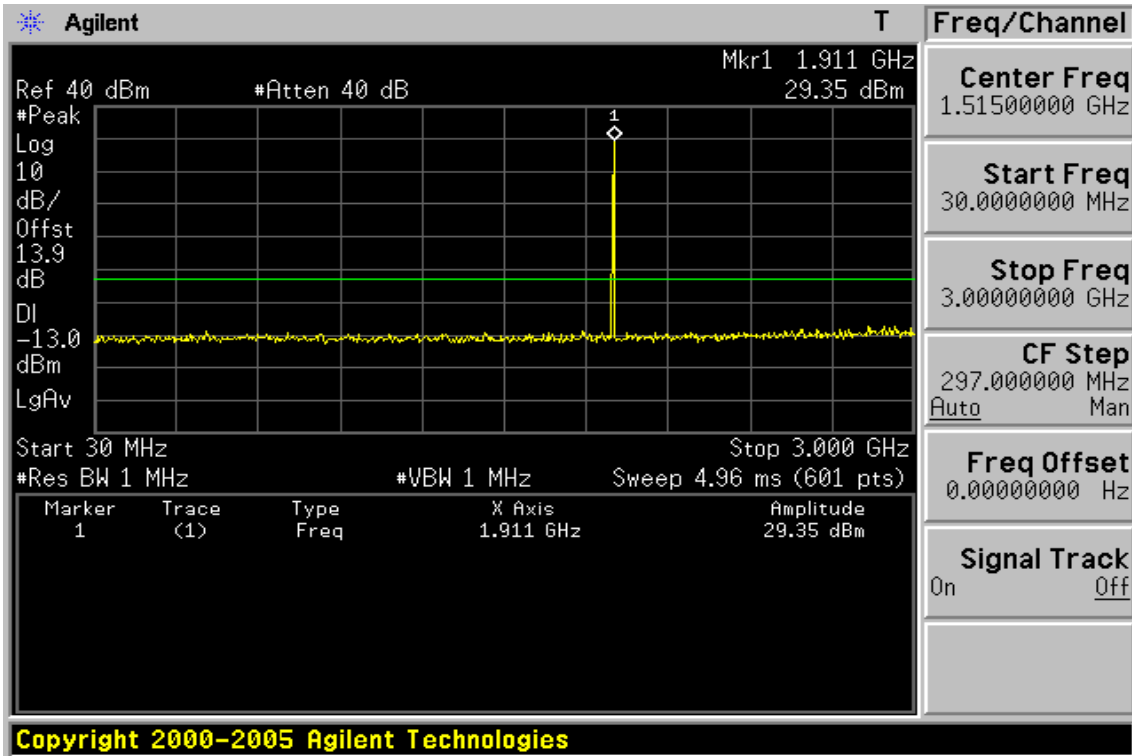
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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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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	---
16430.00	S	-23.34	-13.00	10.34
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	---
19740.00	S	-22.99	-13.00	9.99

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	---
19720.00	S	-23.3	-13.00	10.30

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

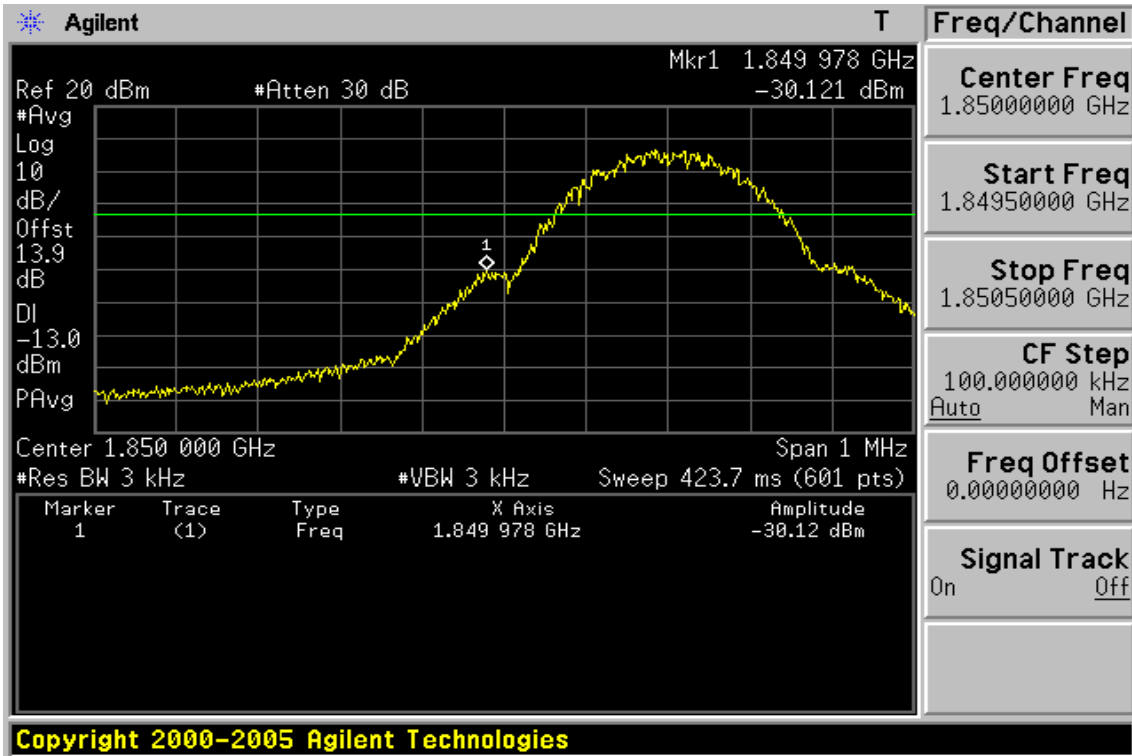
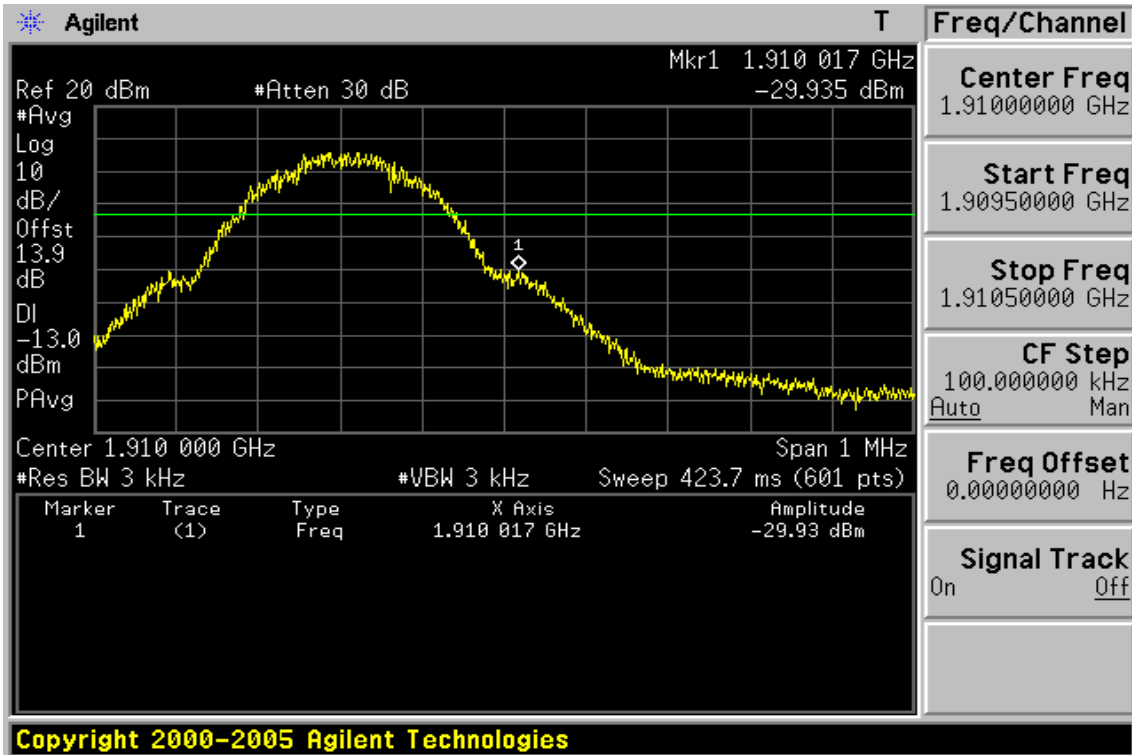


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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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
1849.978	-30.12	-13.00	17.12
1910.017	-29.93	-13.00	16.93

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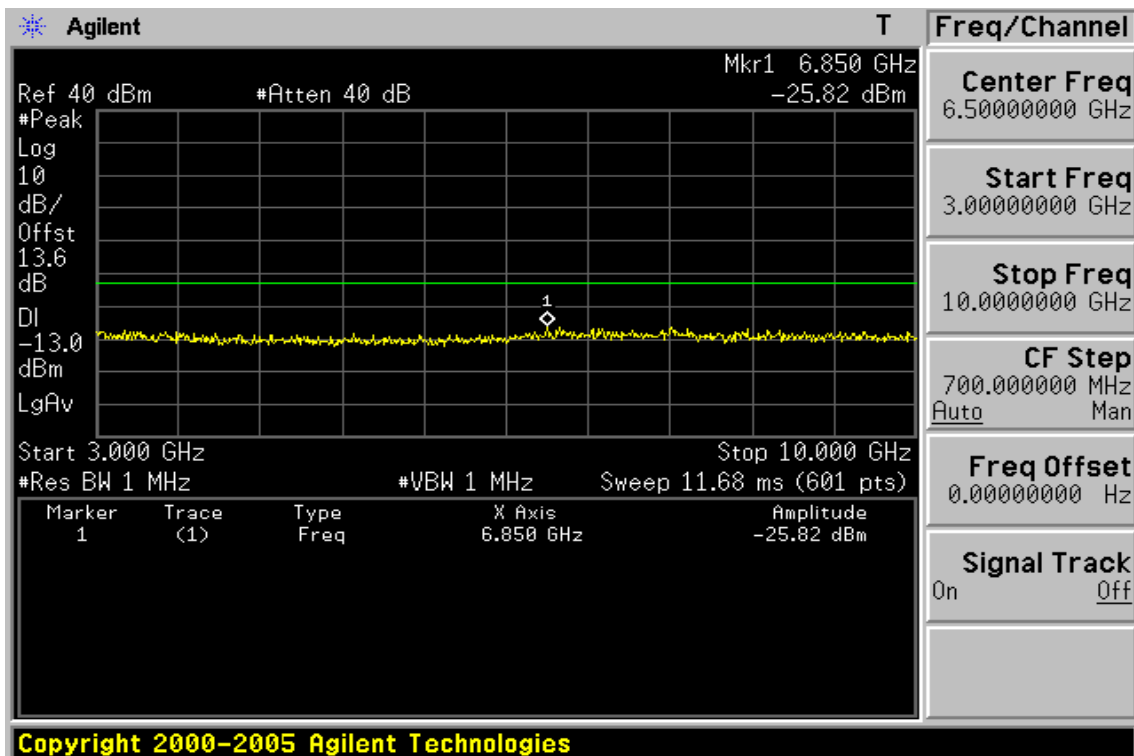
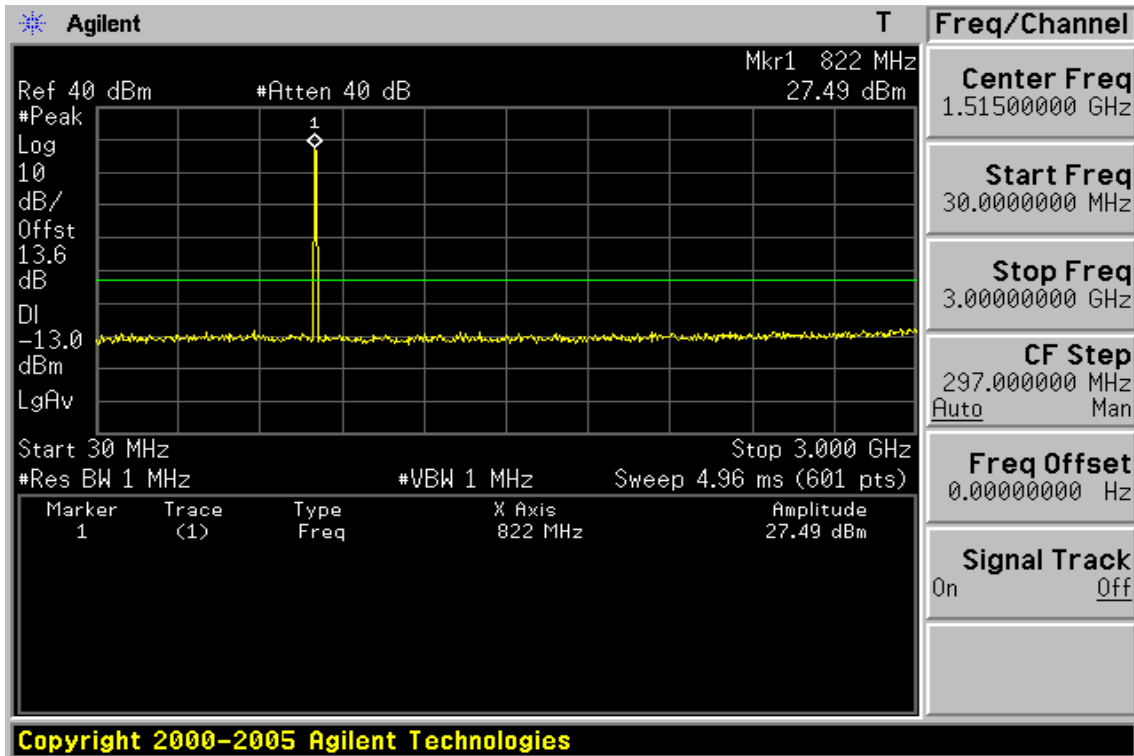
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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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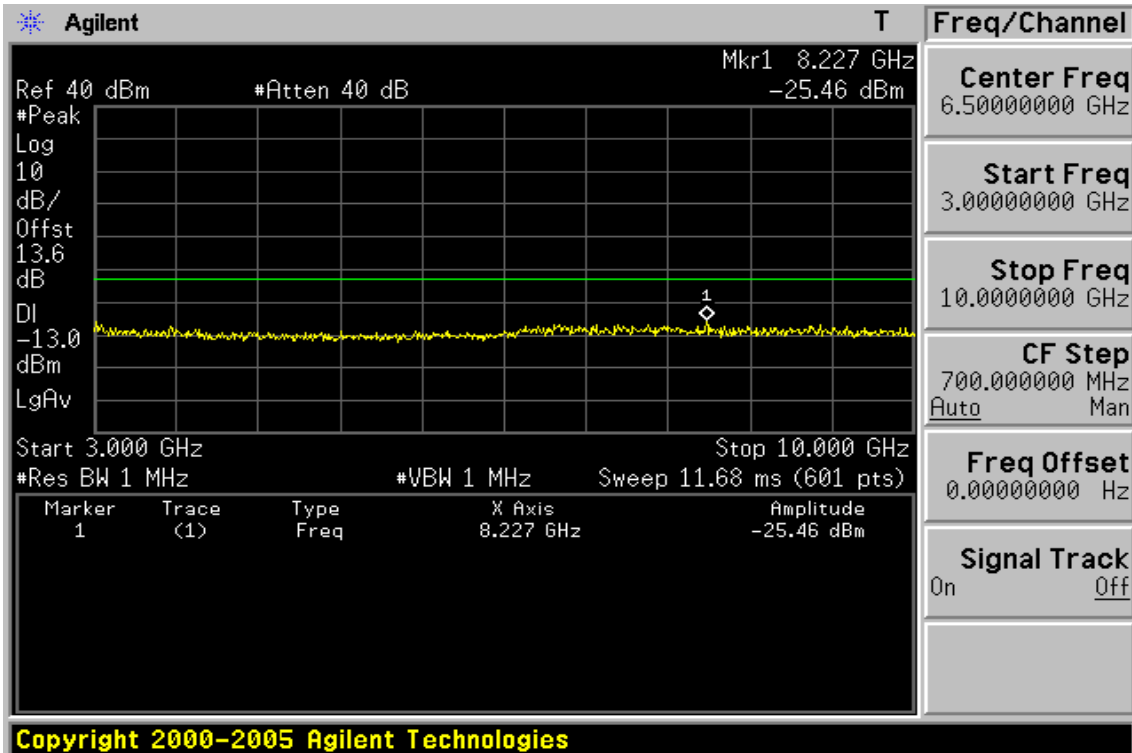
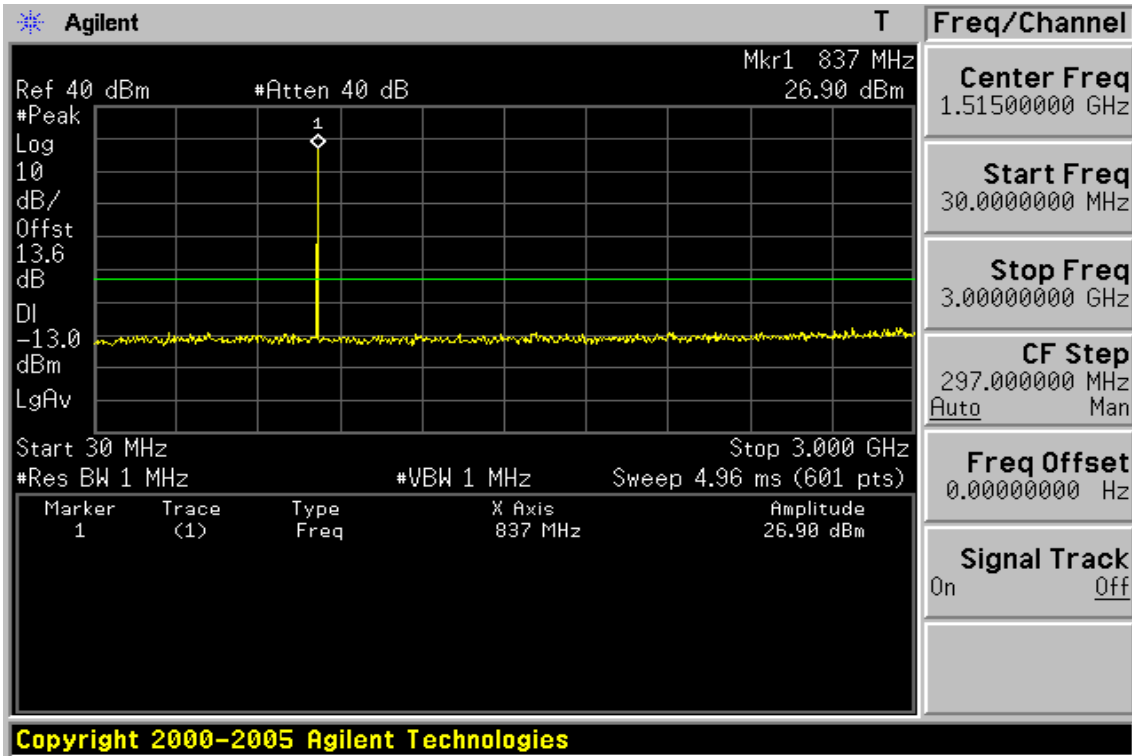
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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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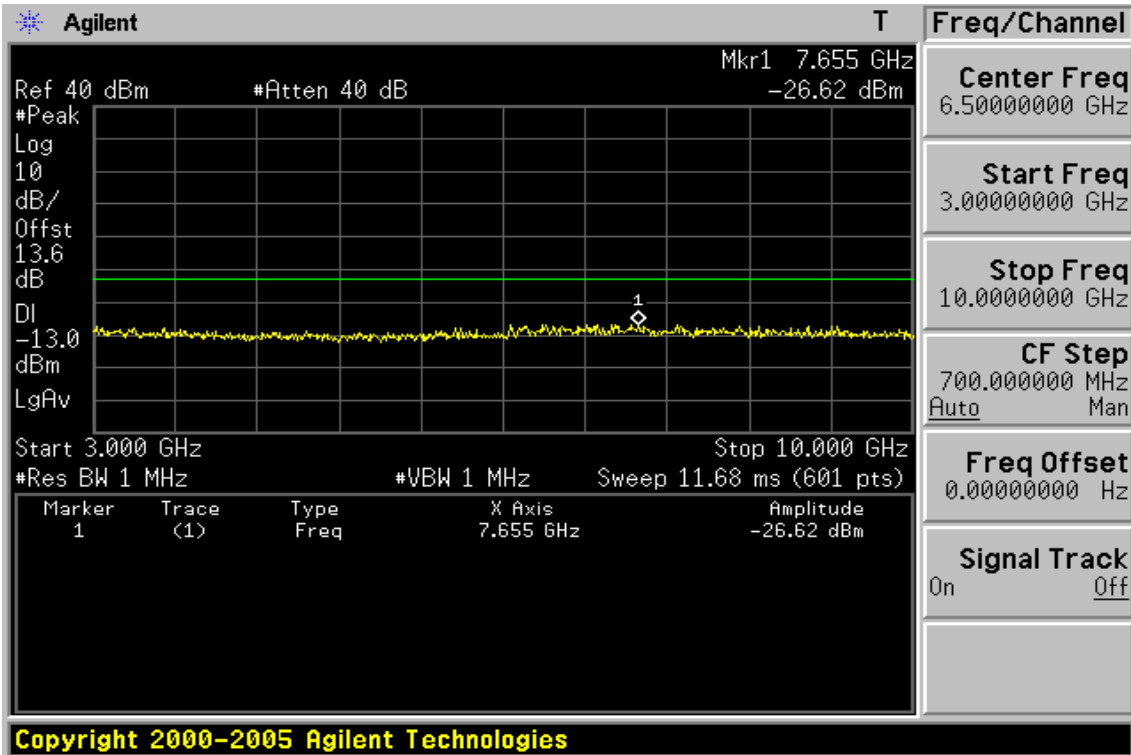
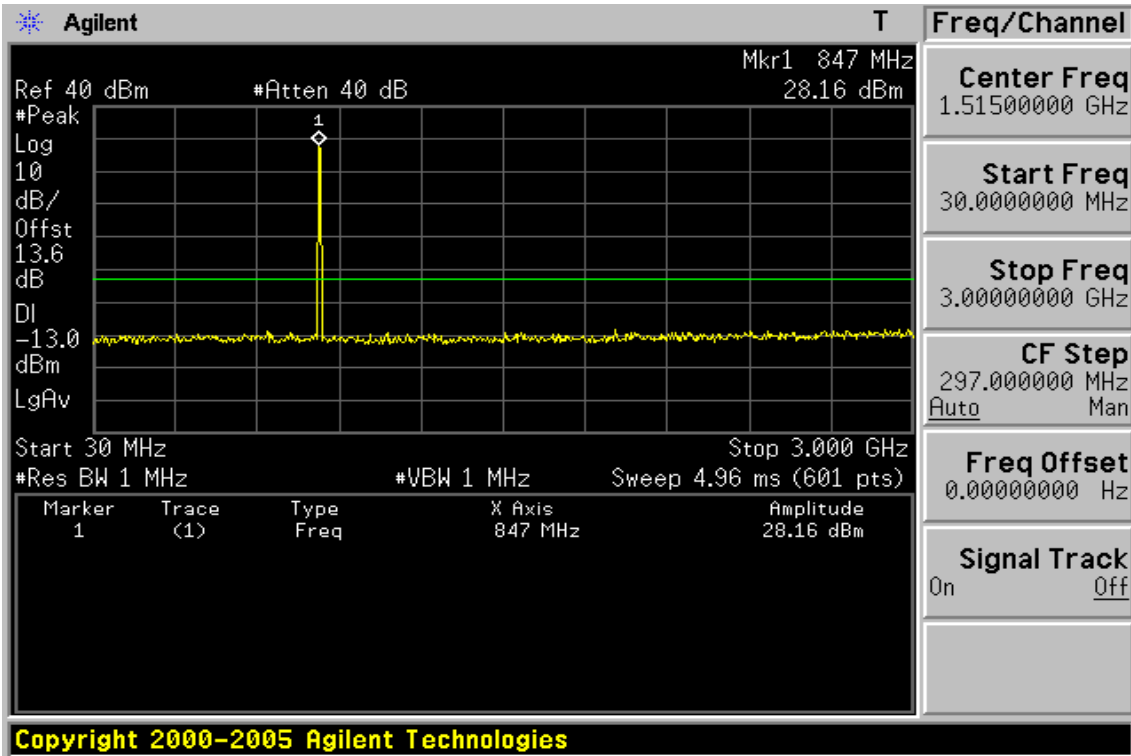
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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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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	---
6850.00	S	-25.82	-13.00	12.82
7417.80	H	---	-13.00	---
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	---
7529.40	H	---	-13.00	---
8227.00	S	-25.46	-13.00	12.46
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
Operation Mode :TX High

Engineer :Nick

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	---
7655.00	S	-26.62	-13.00	13.62
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

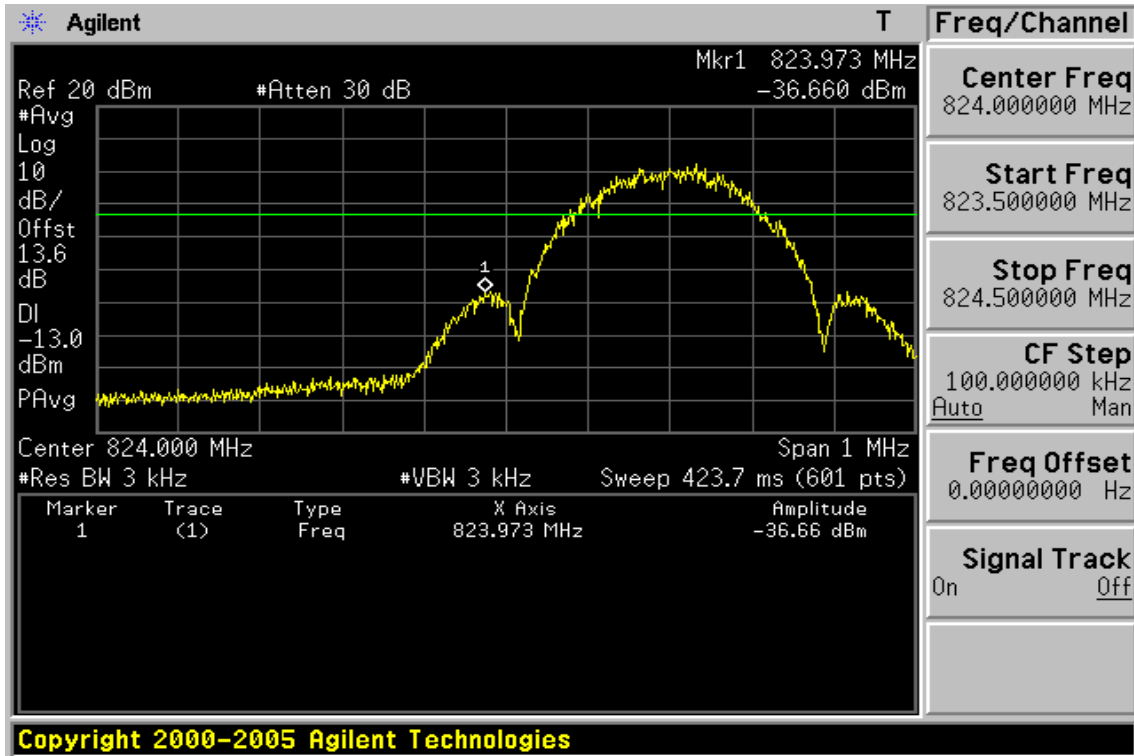
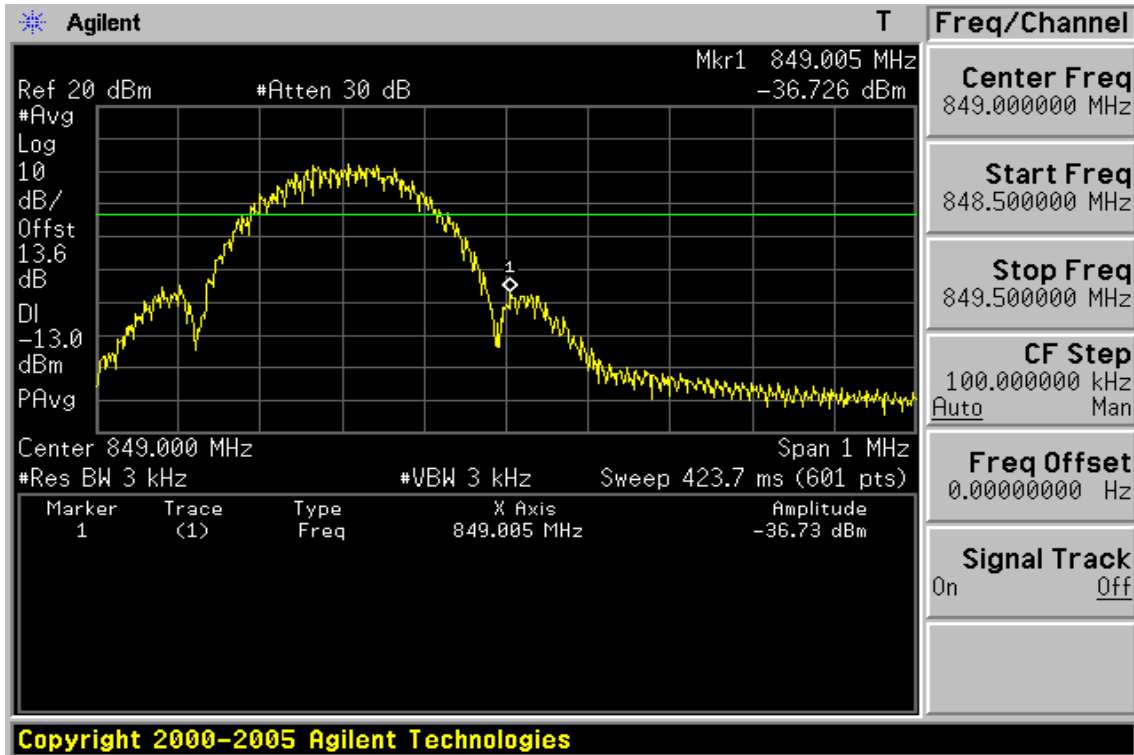


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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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
823.973	-36.66	-13.00	23.66
849.005	-36.73	-13.00	23.73

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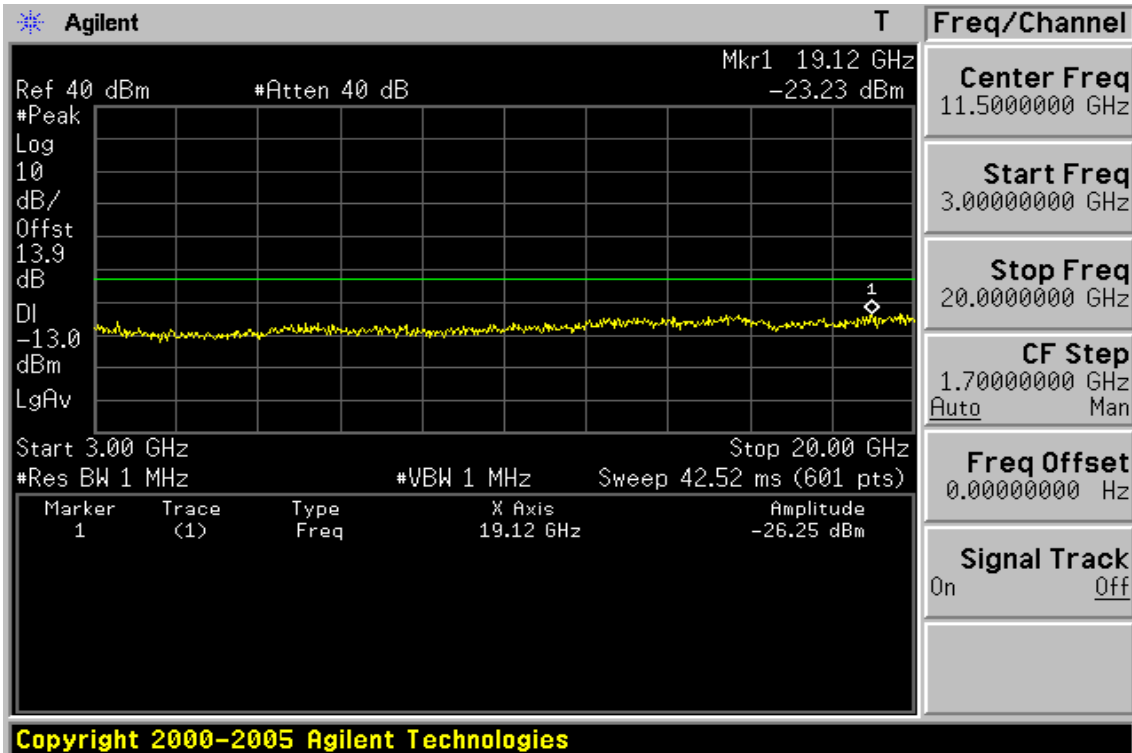
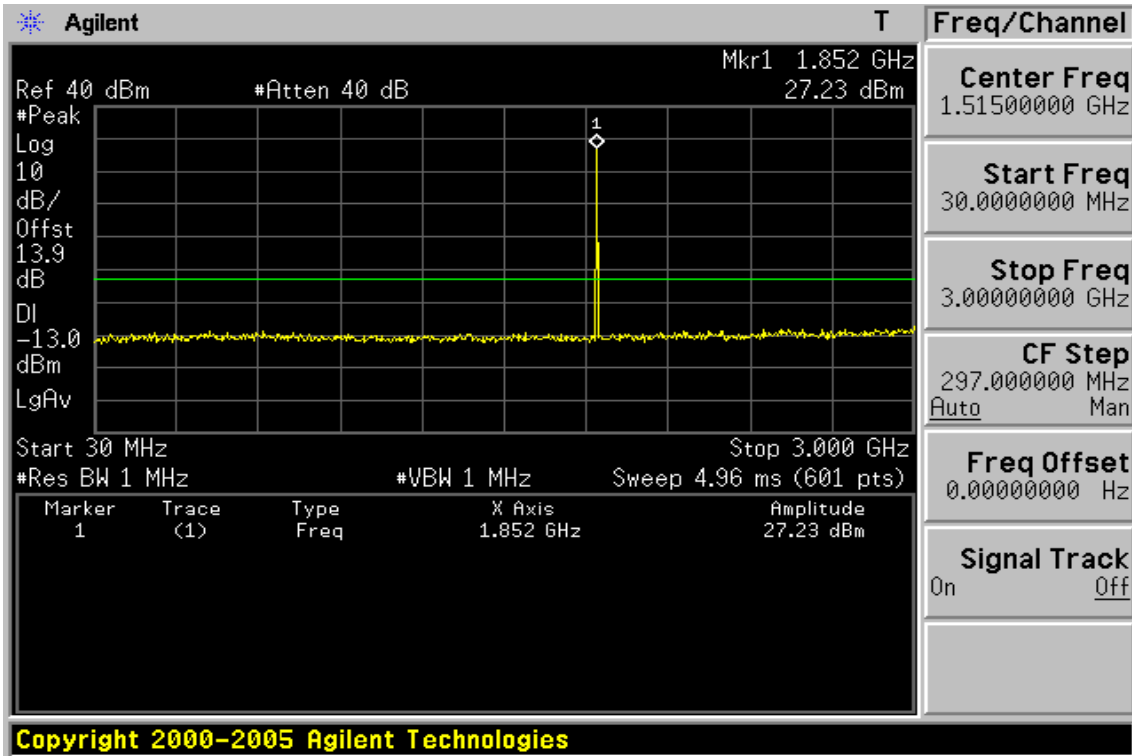
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Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

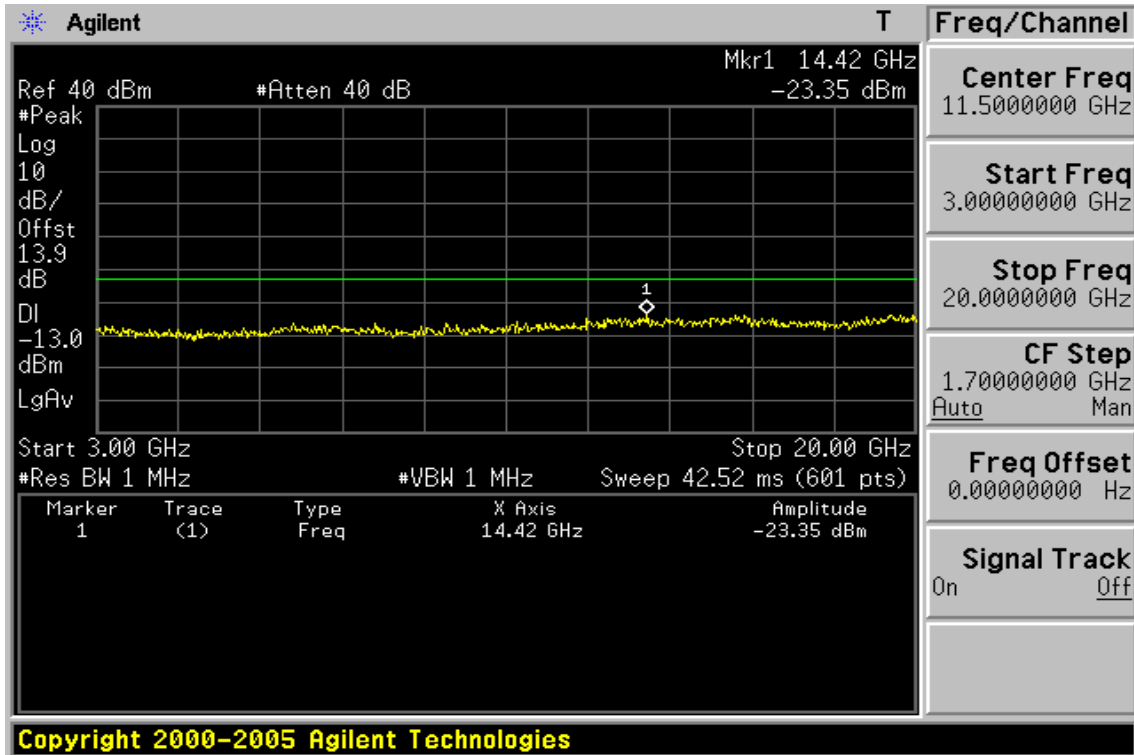
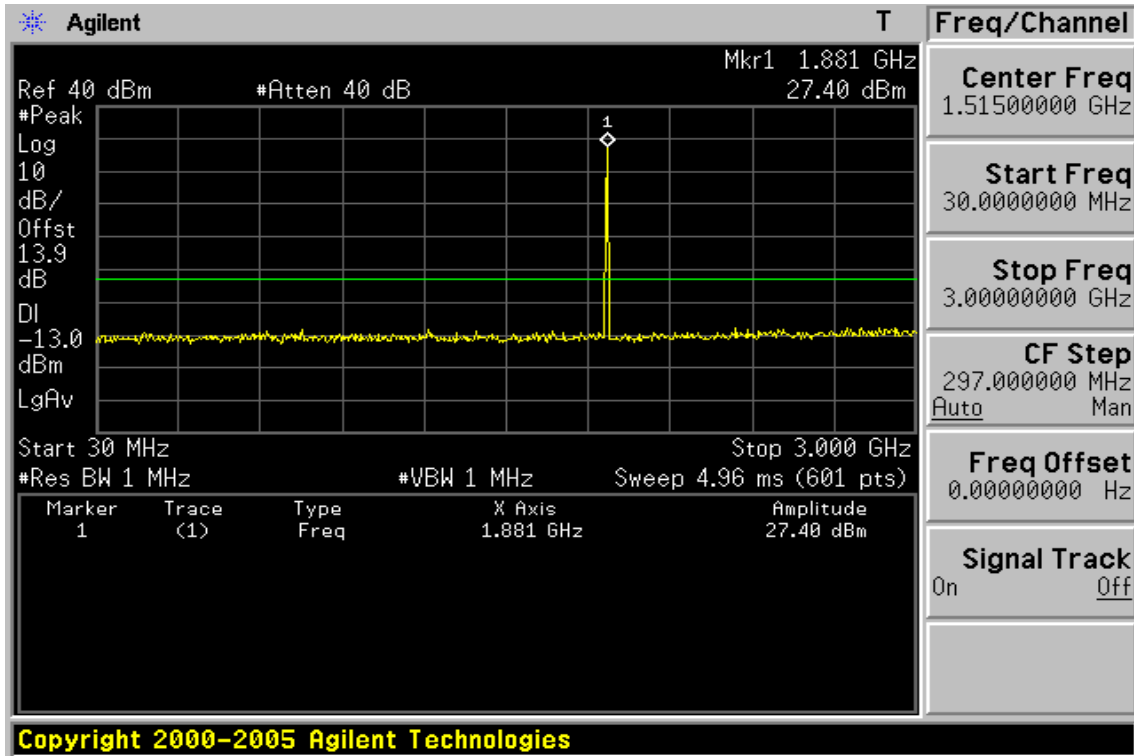


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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid

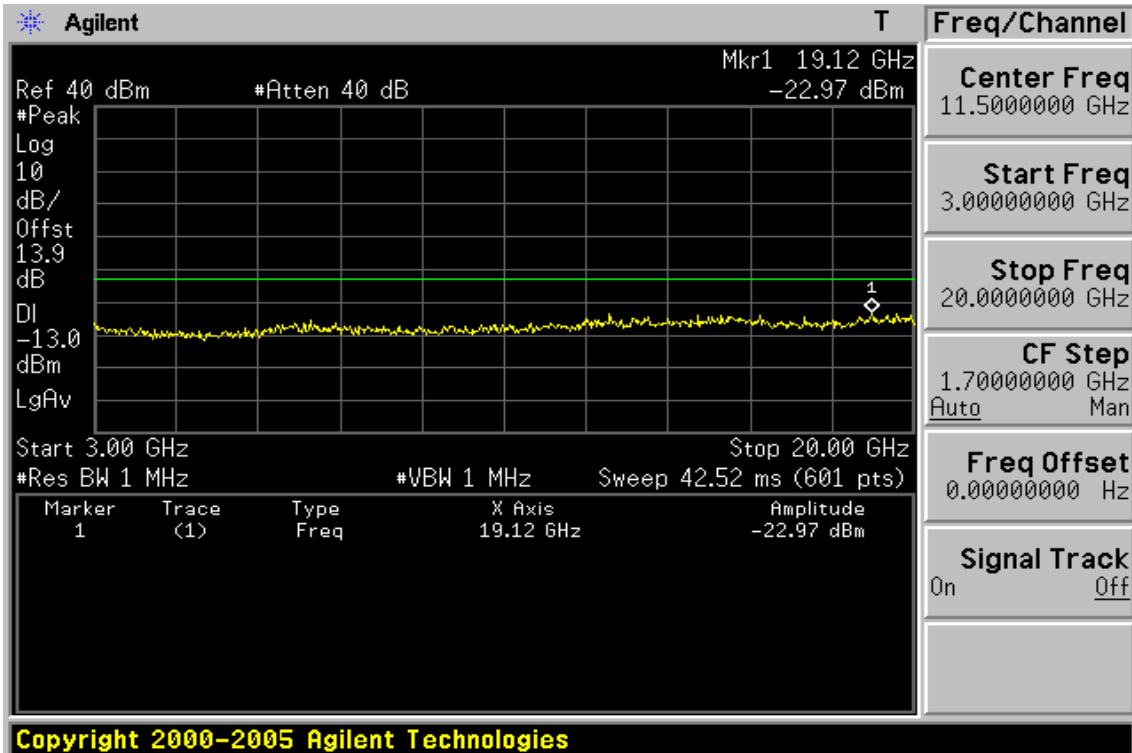
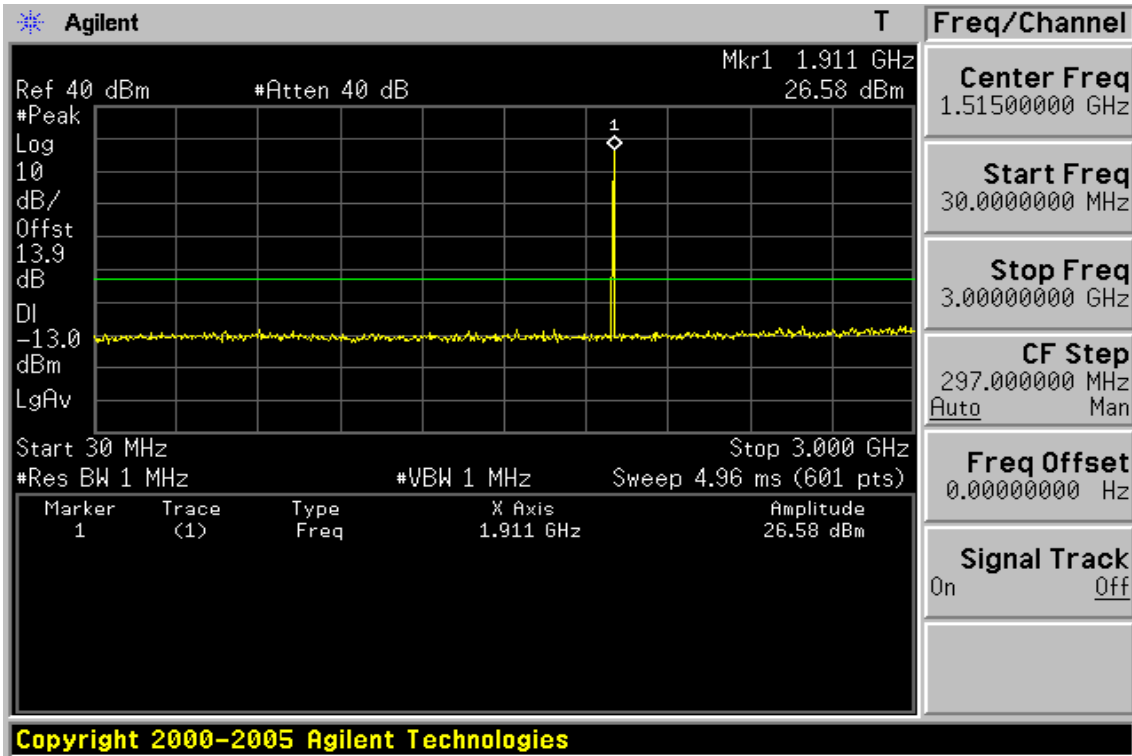


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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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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	---
19120.00	S	-26.25	-13.00	13.25

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	---
14420.00	S	-23.35	-13.00	10.35
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	---
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---
19120.00	S	-22.97	-13.00	9.97

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

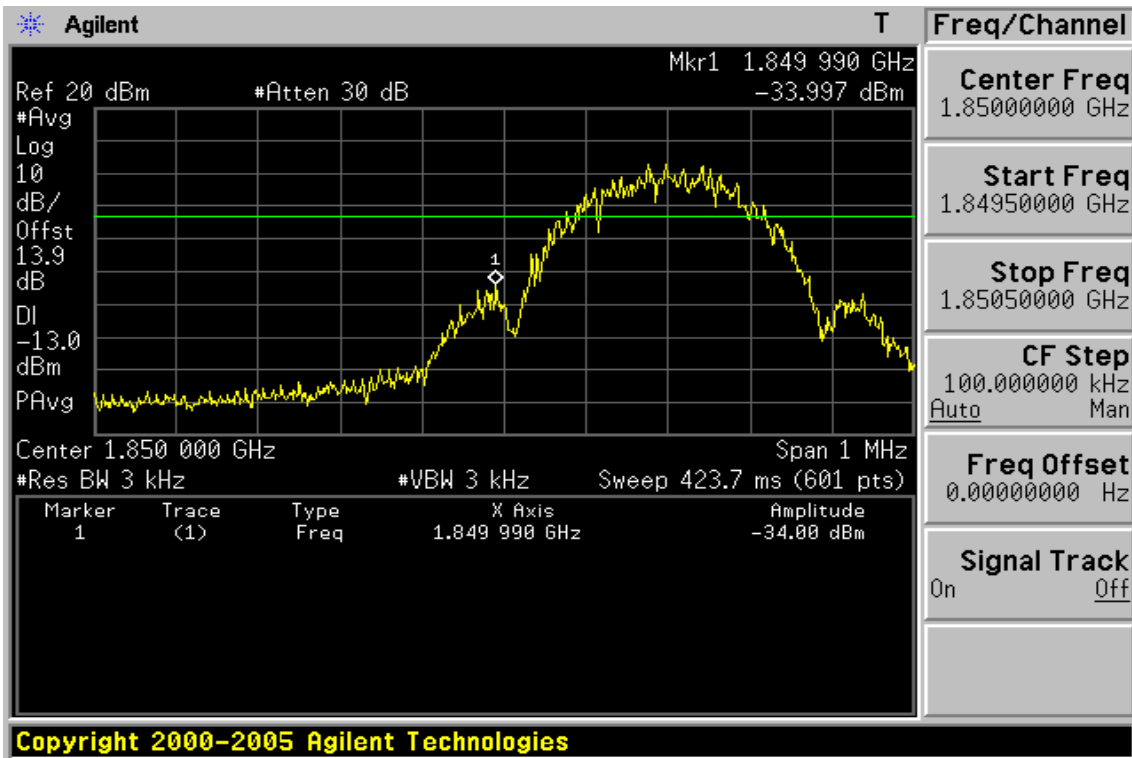
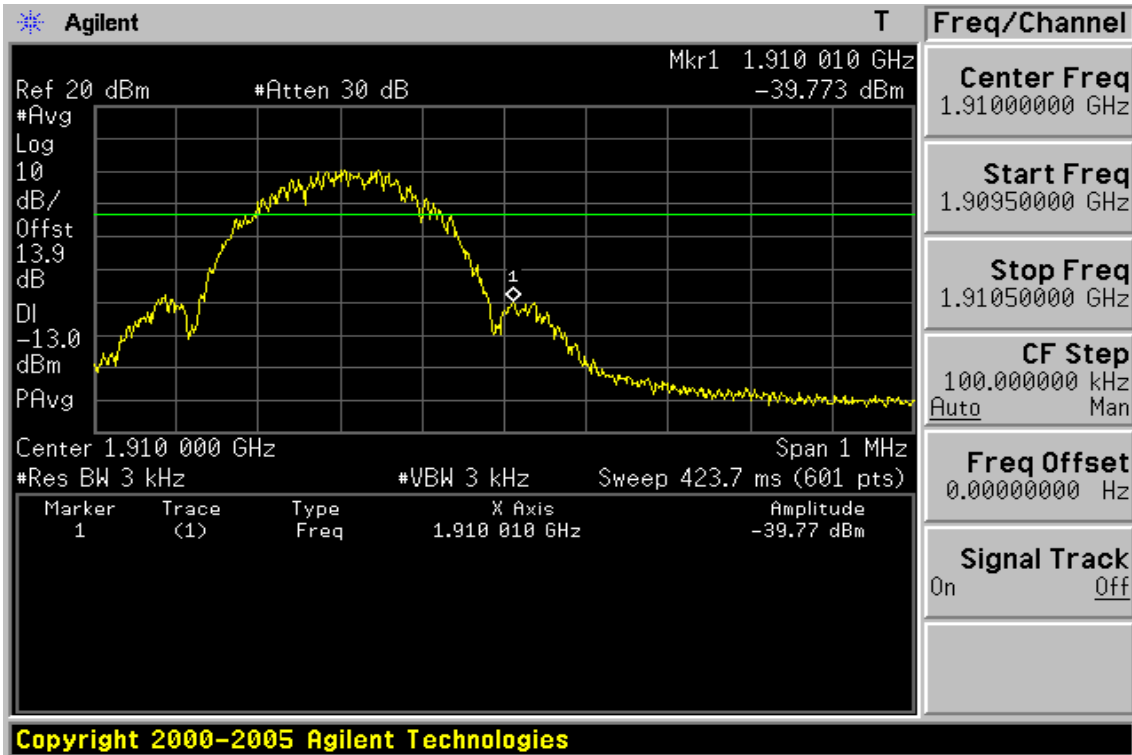


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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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
1849.990	-34.00	-13.00	21.00
1910.010	-39.77	-13.00	26.77

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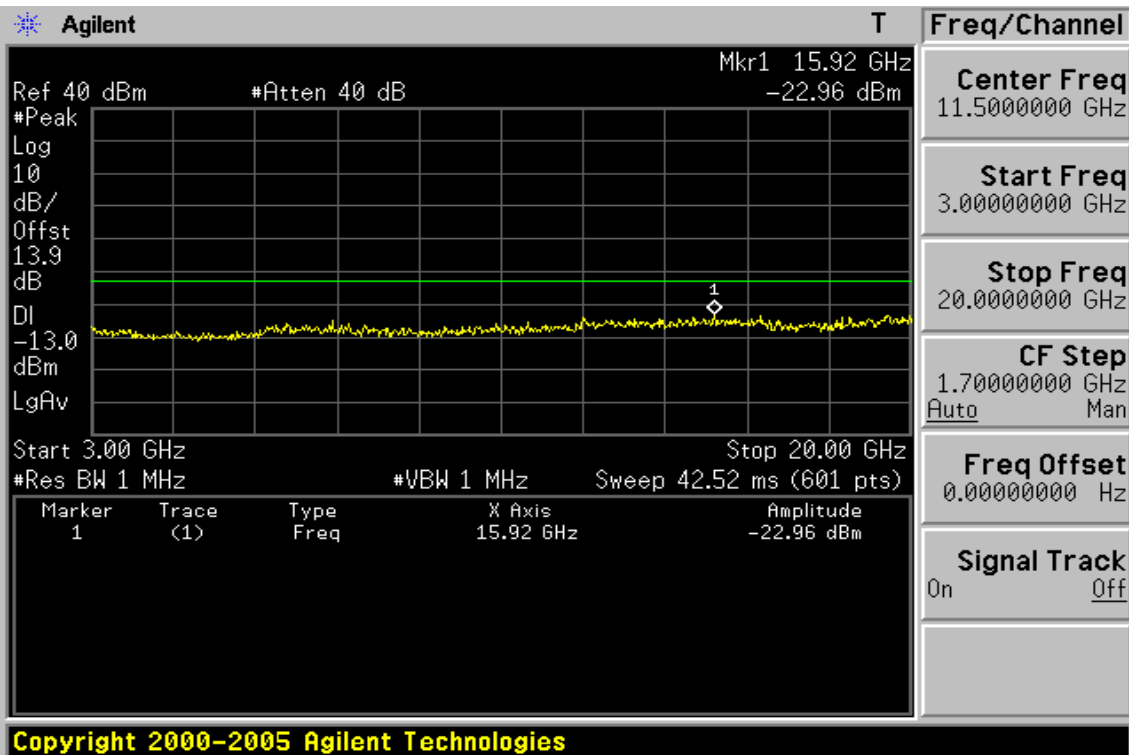
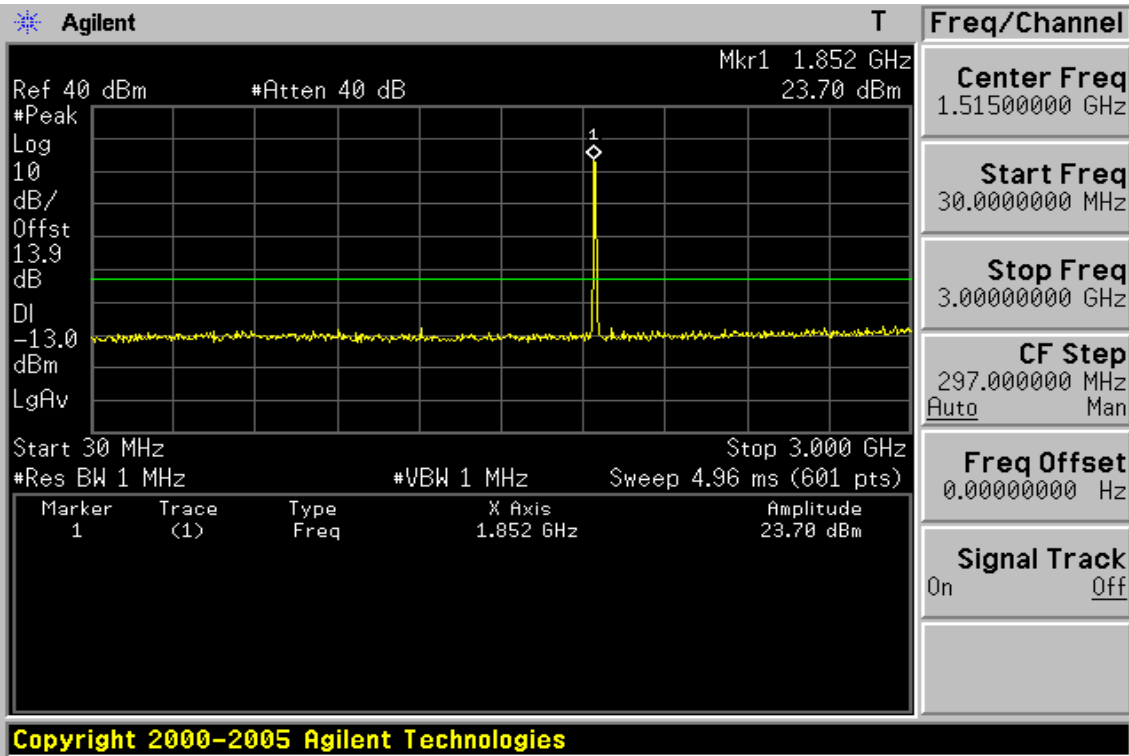
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Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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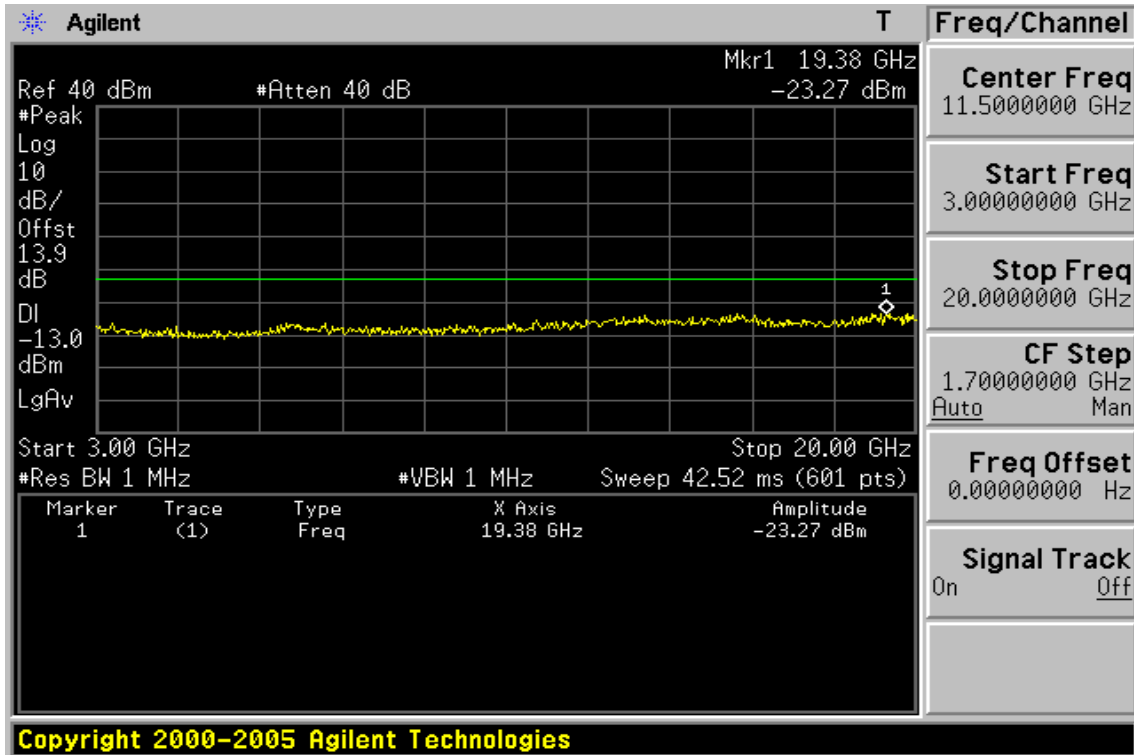
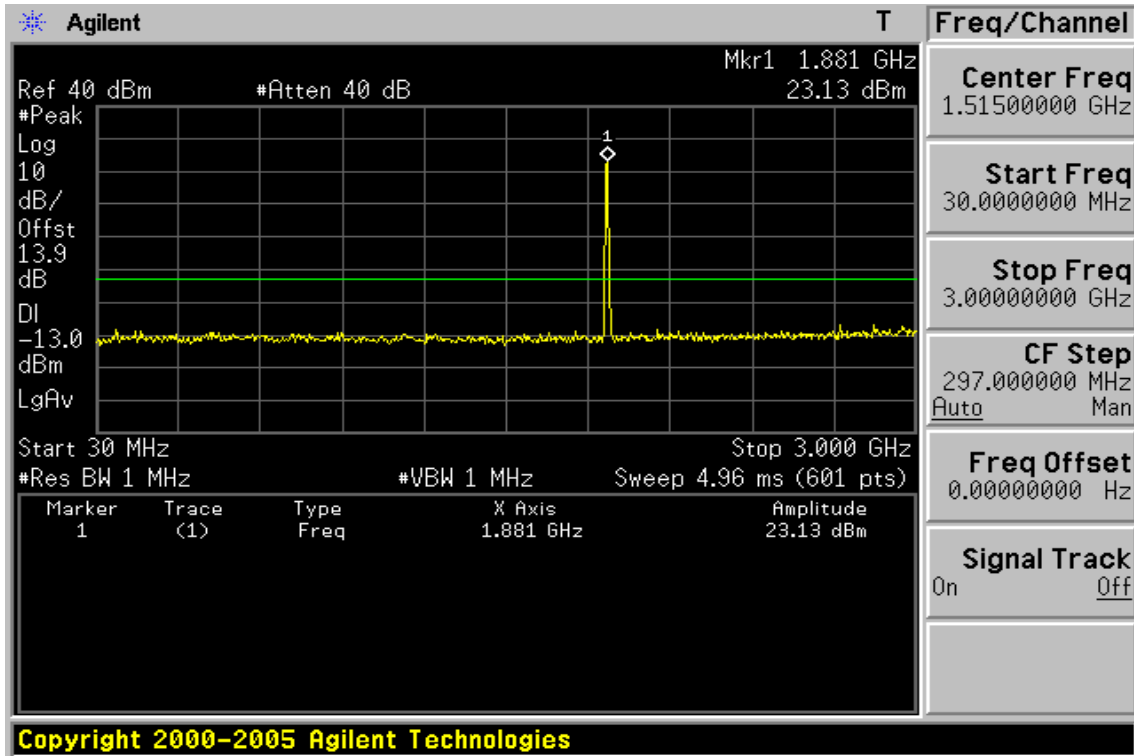
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Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid



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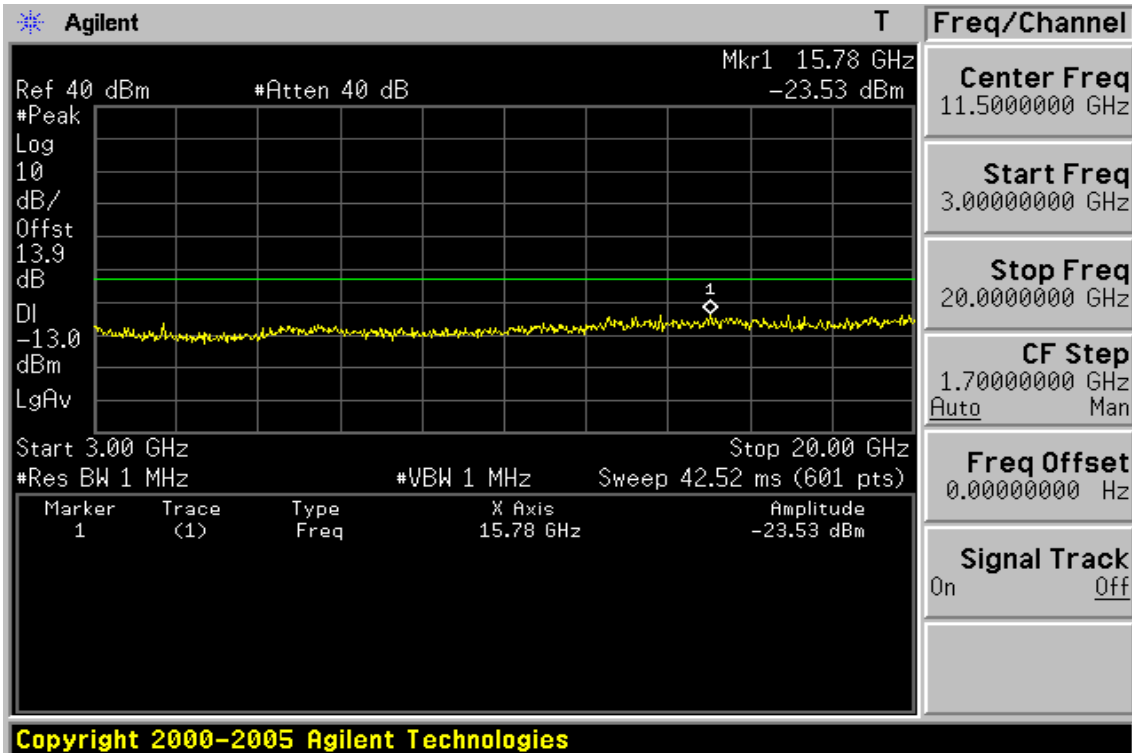
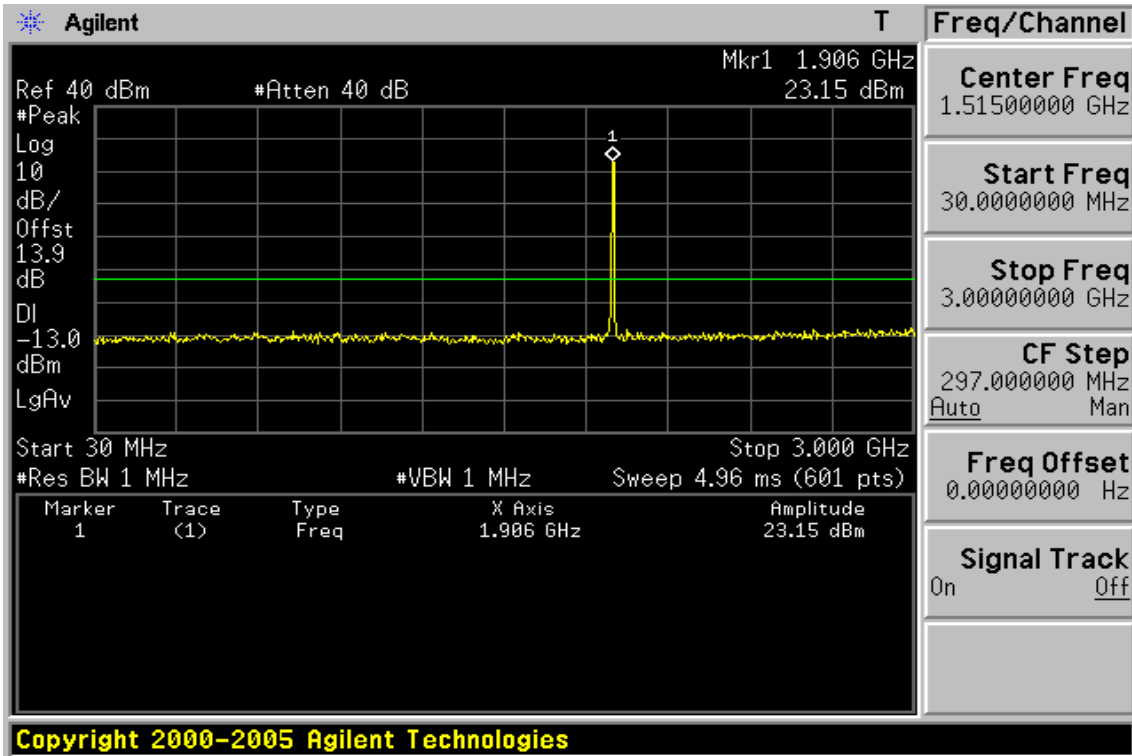
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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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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	---
14819.20	H	---	-13.00	---
15920.00	S	-22.96	-13.00	9.96
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	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19380.00	S	-23.27	-13.00	10.27

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	---
15260.80	H	---	-13.00	---
15780.00	S	-23.53	-13.00	10.53
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

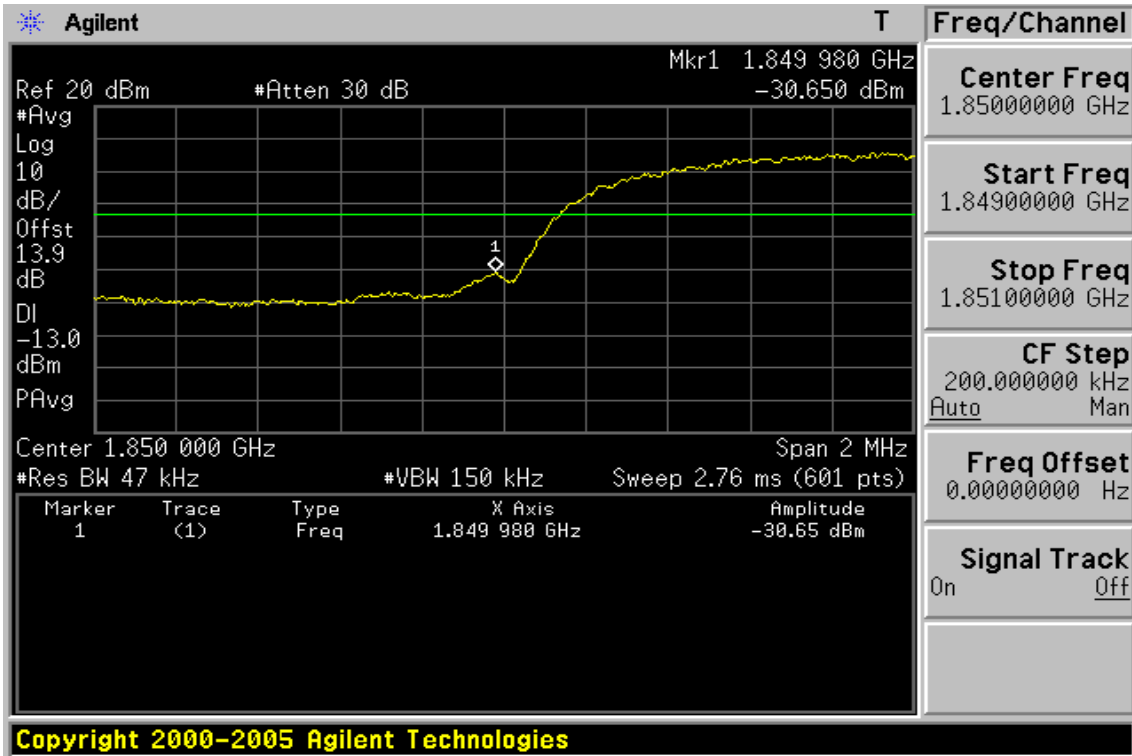
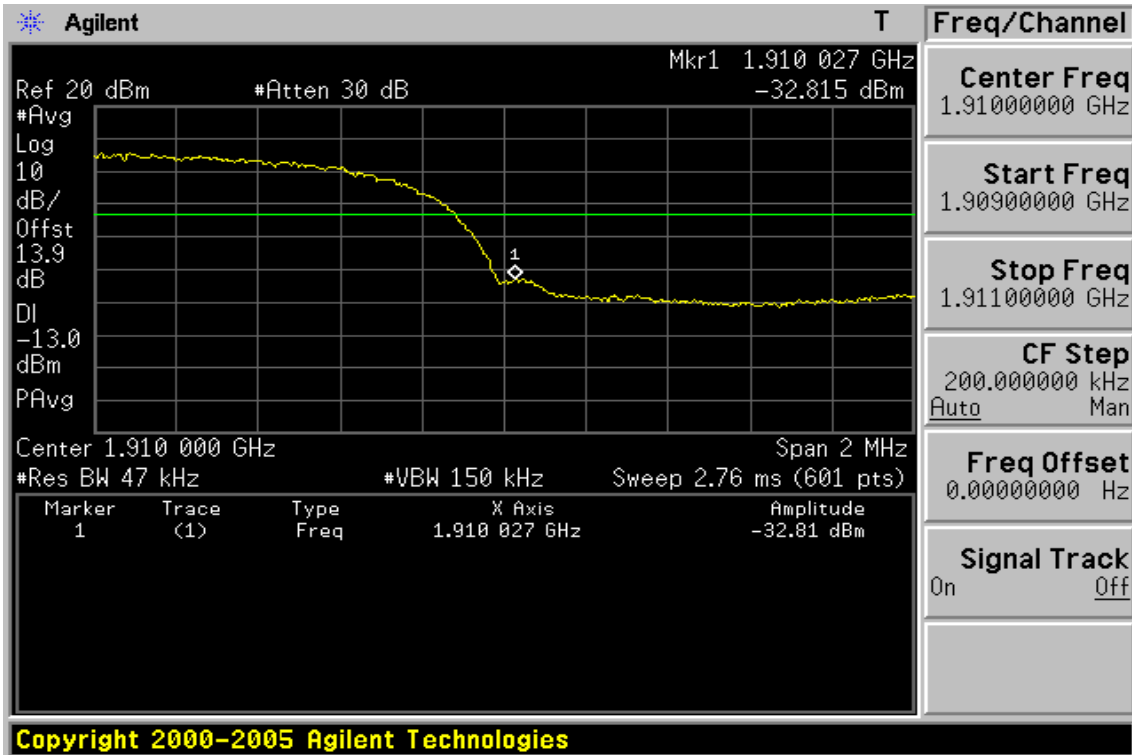


Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest



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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
1849.980	-23.69	-13.00	10.69
1910.027	-32.81	-13.00	19.81

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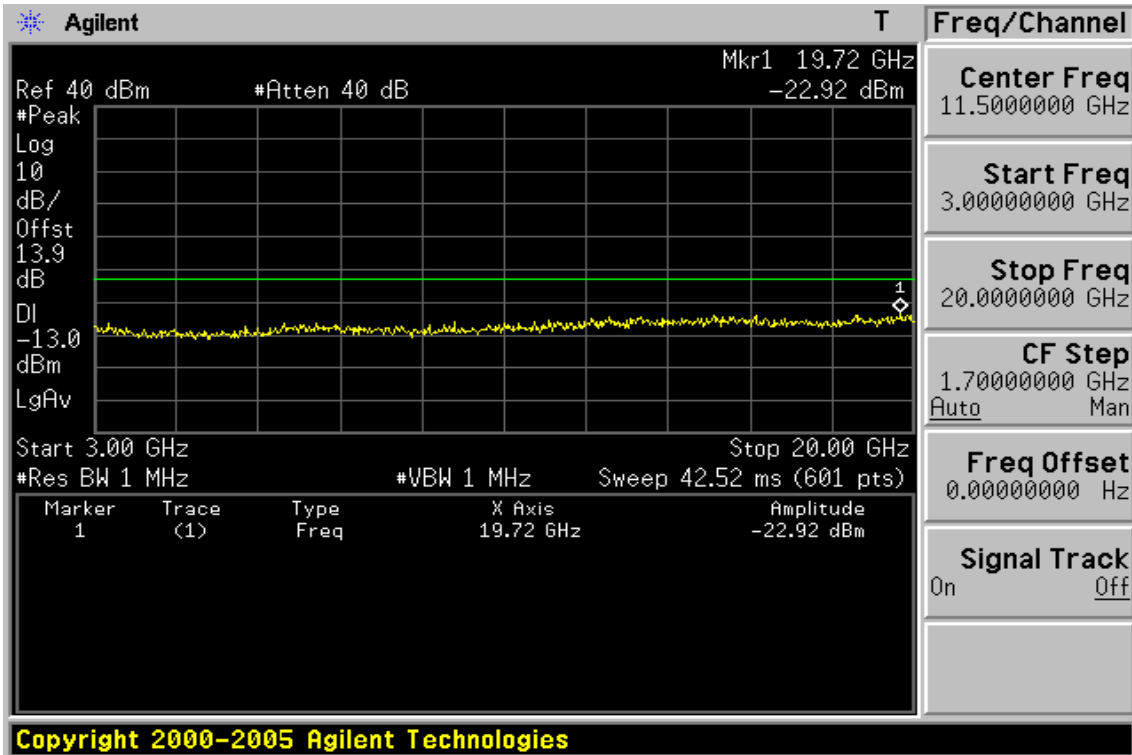
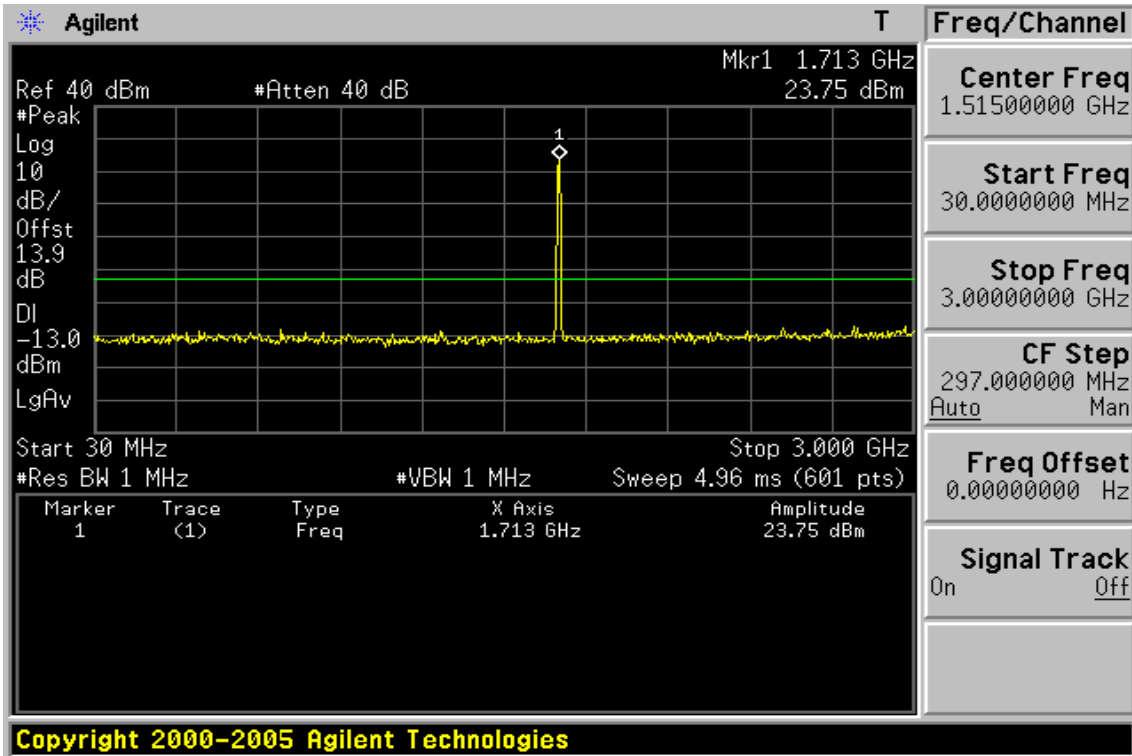
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Figure 9-36: Out of Band emission at antenna terminals – WCDMA IV Channel Lowest



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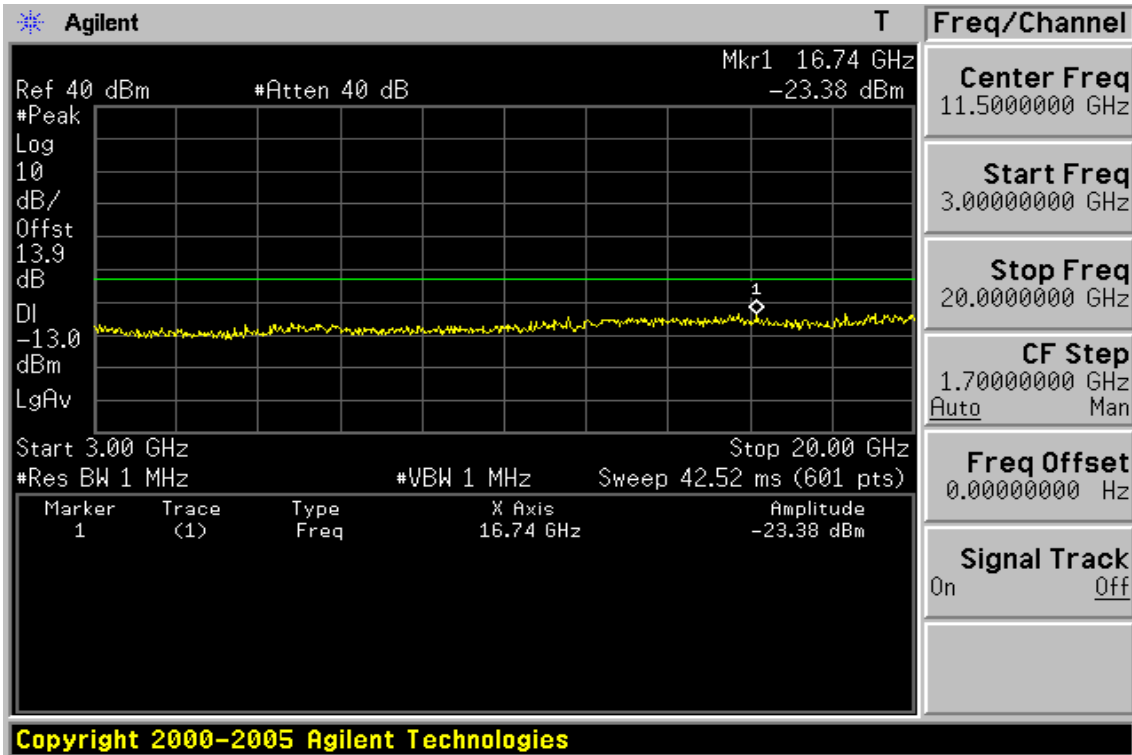
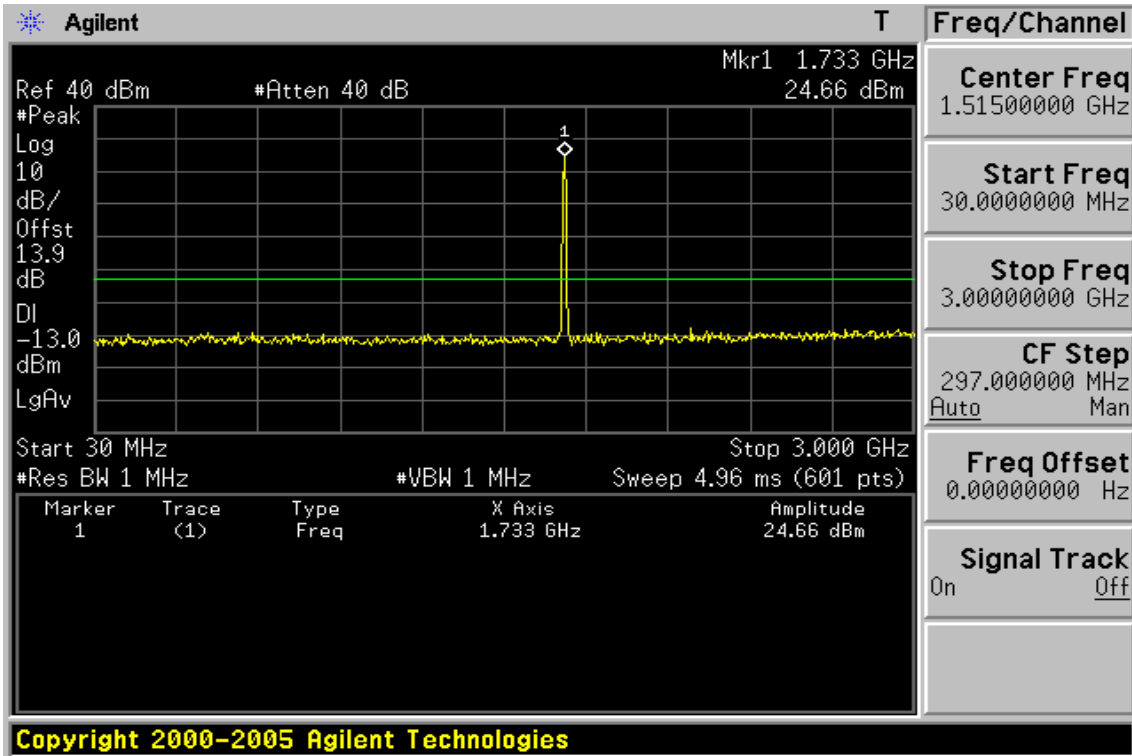
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Figure 9-37: Out of Band emission at antenna terminals – WCDMA IV Channel Mid



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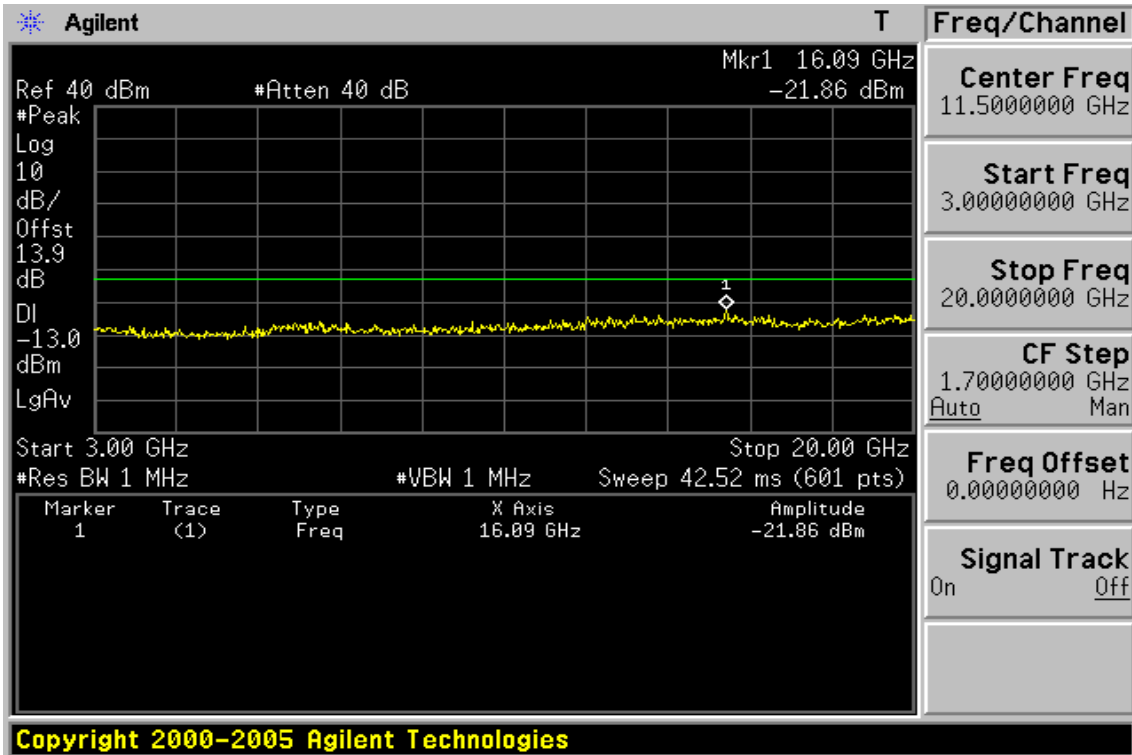
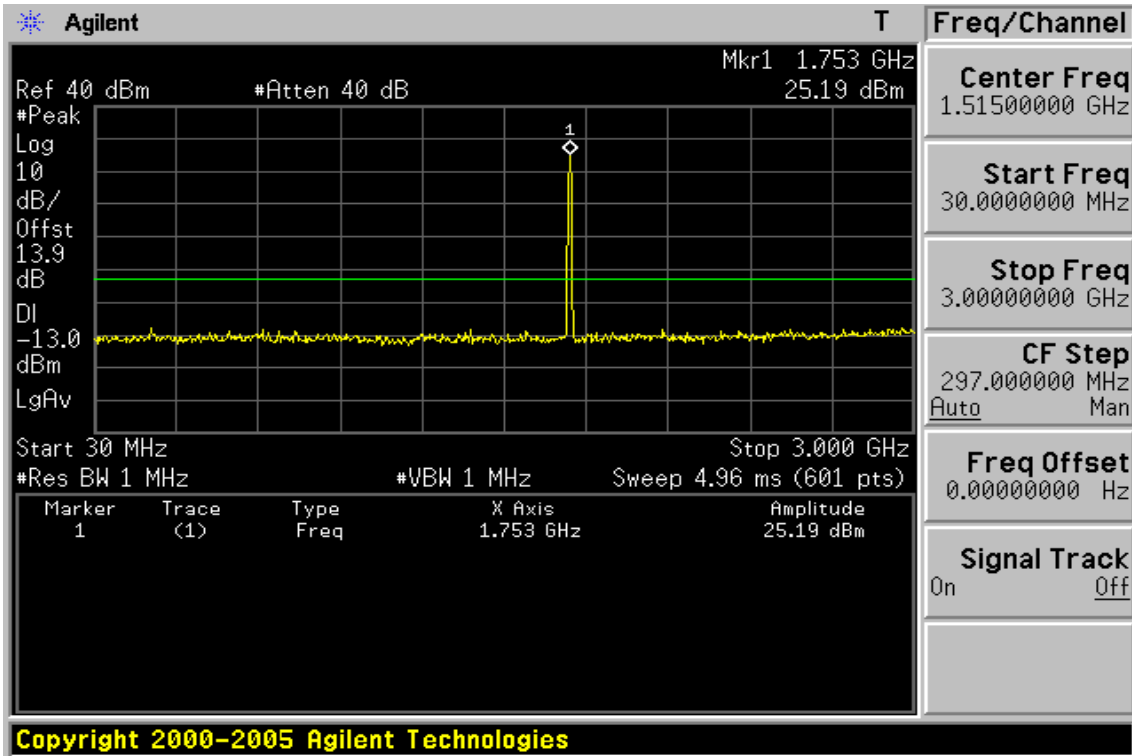
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Figure 9-38: Out of Band emission at antenna terminals – WCDMA IV Channel Highest



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Out of Band emission at antenna terminals – WCDMA IV

Fundamental Frequency 1712.4 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	---
3424.80	H	---	-13.00	---
5137.20	H	---	-13.00	---
6849.60	H	---	-13.00	---
8562.00	H	---	-13.00	---
10274.40	H	---	-13.00	---
11986.80	H	---	-13.00	---
13699.20	H	---	-13.00	---
15411.60	H	---	-13.00	---
17124.00	H	---	-13.00	---
19720.00	S	-22.92	-13.00	9.92

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

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Fundamental Frequency :1732.6 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	---
3465.20	H	---	-13.00	---
5197.80	H	---	-13.00	---
6930.40	H	---	-13.00	---
8663.00	H	---	-13.00	---
10395.60	H	---	-13.00	---
12128.20	H	---	-13.00	---
13860.80	H	---	-13.00	---
15593.40	H	---	-13.00	---
16740.00	S	-23.38	-13.00	10.38
17326.00	H	---	-13.00	---

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

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Fundamental Frequency 1752.6MHz 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	---
3505.20	H	---	-13.00	---
5257.80	H	---	-13.00	---
7010.40	H	---	-13.00	---
8763.00	H	---	-13.00	---
10515.60	H	---	-13.00	---
12268.20	H	---	-13.00	---
14020.80	H	---	-13.00	---
15773.40	H	---	-13.00	---
16090.00	S	-21.86	-13.00	8.86
17526.00	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 IV Channel Lowest

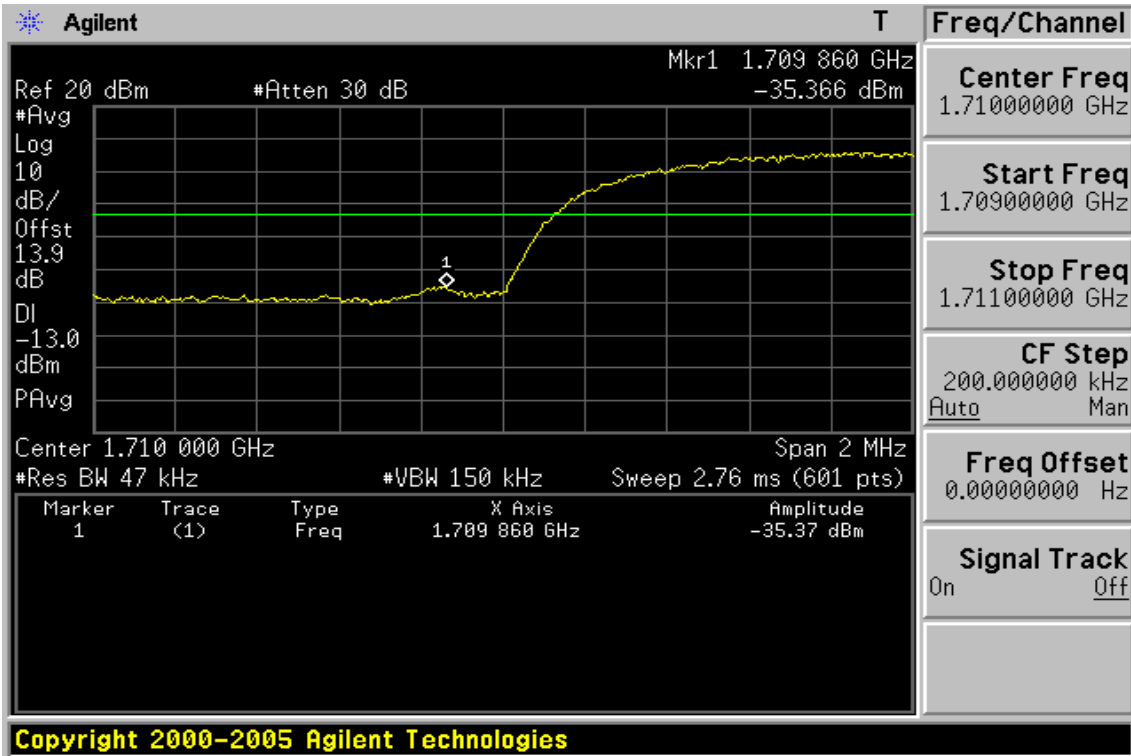
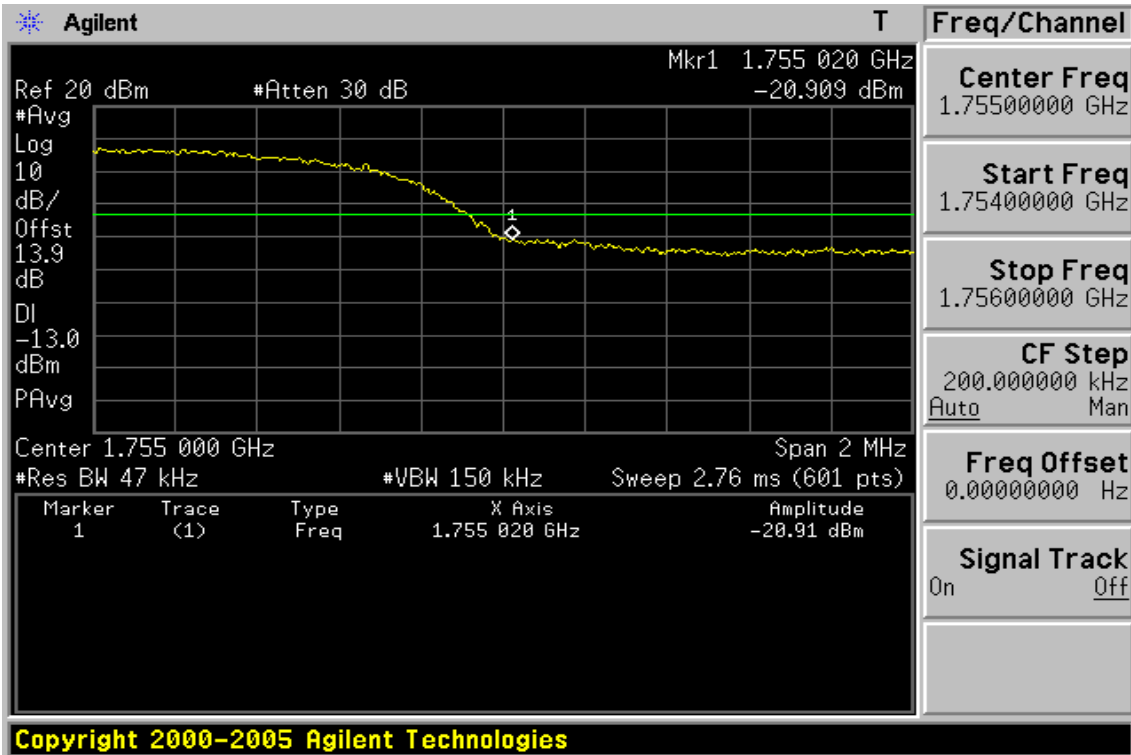


Figure 9-40: Band edge emission at antenna terminals – WCDMA IV Channel Highest



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

Test Mode WCDMA IV Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.860	-35.37	-13.00	22.37
1755.020	-20.91	-13.00	7.91

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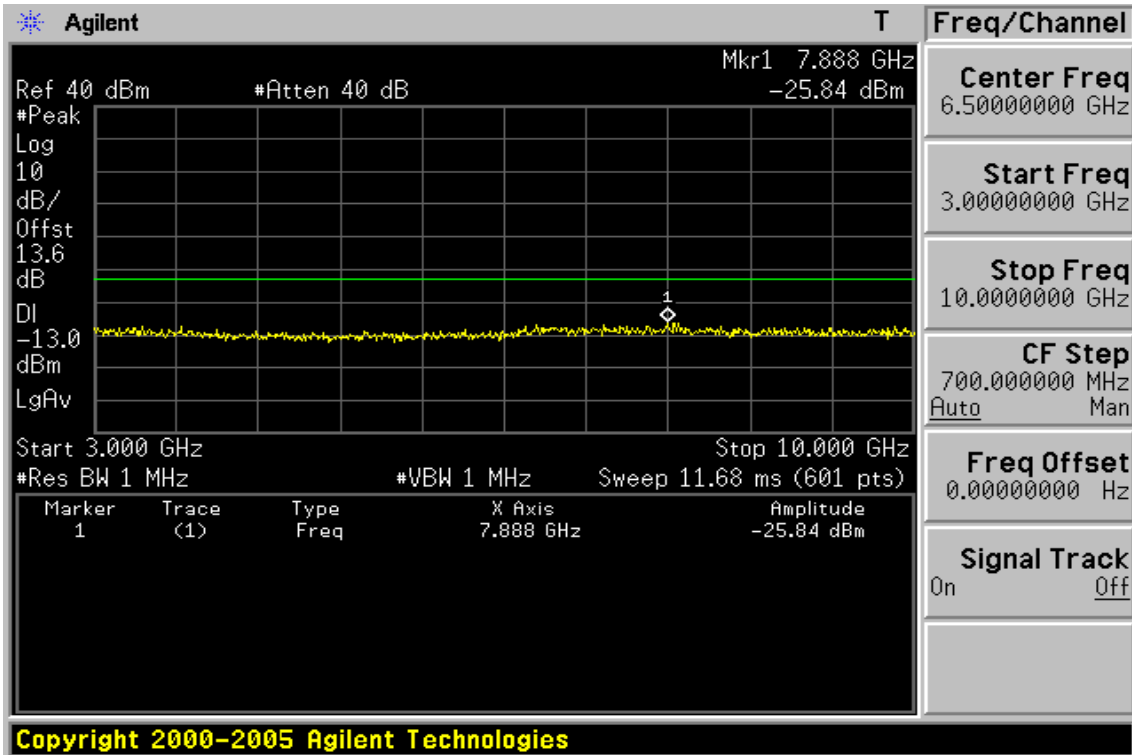
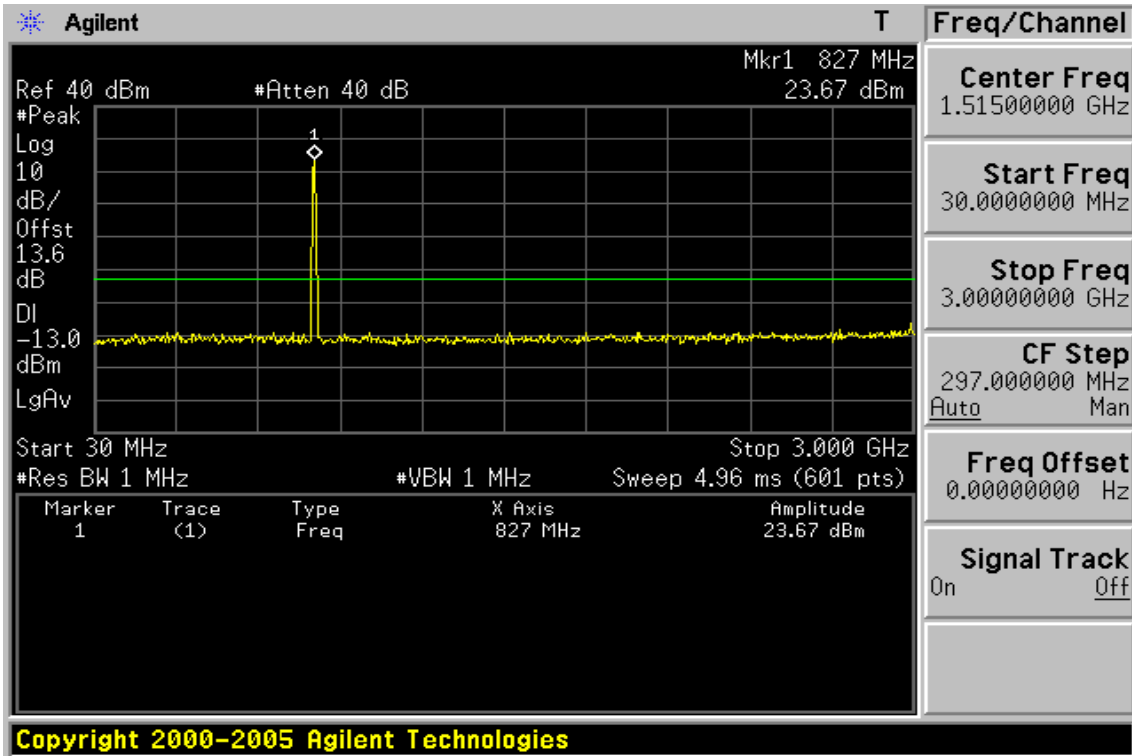
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Figure 9-41: Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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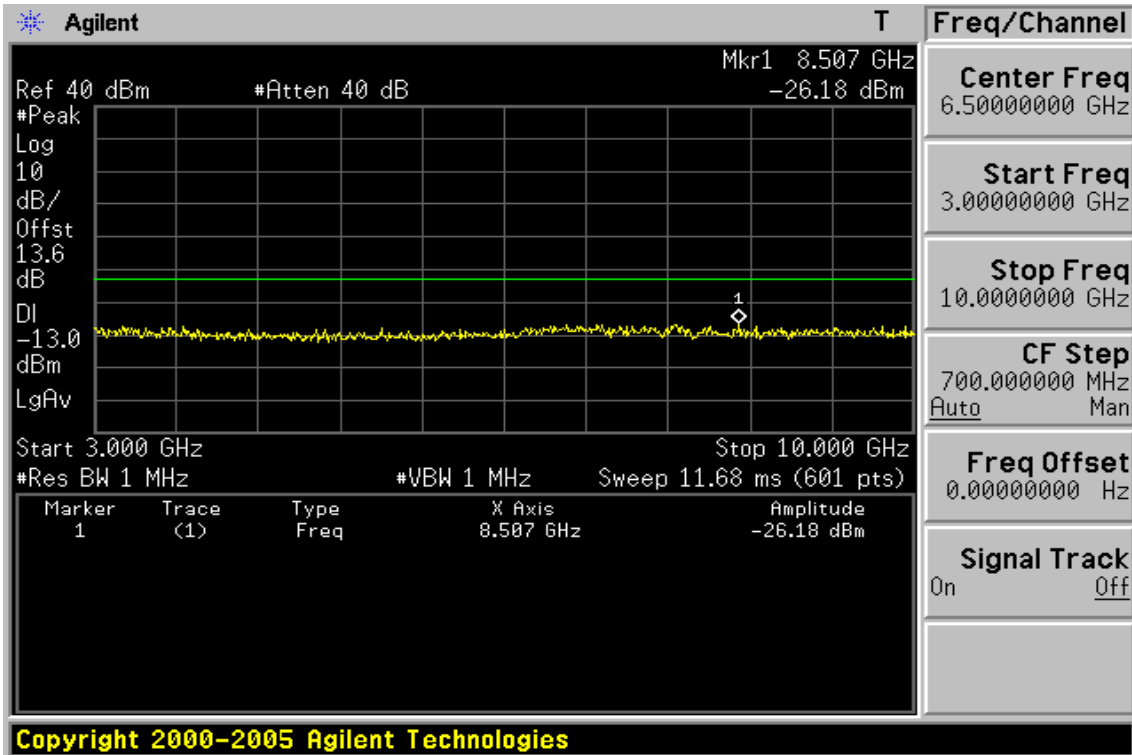
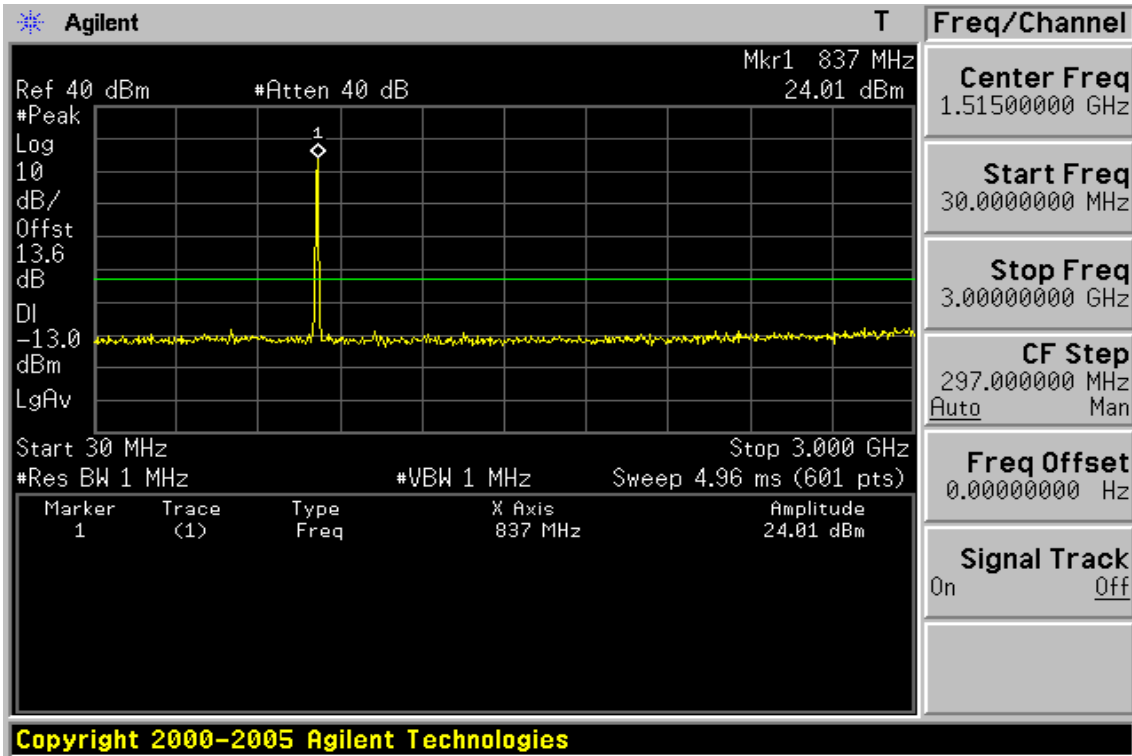
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Figure 9-42: Out of Band emission at antenna terminals – WCDMA V Channel Mid



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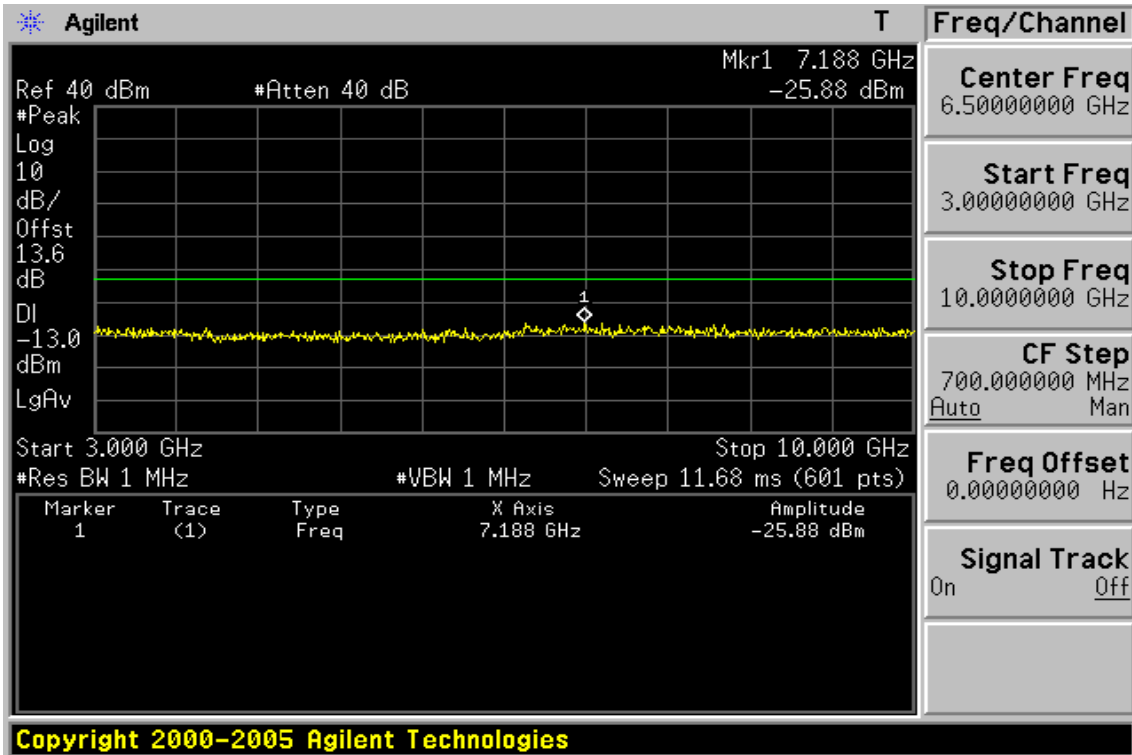
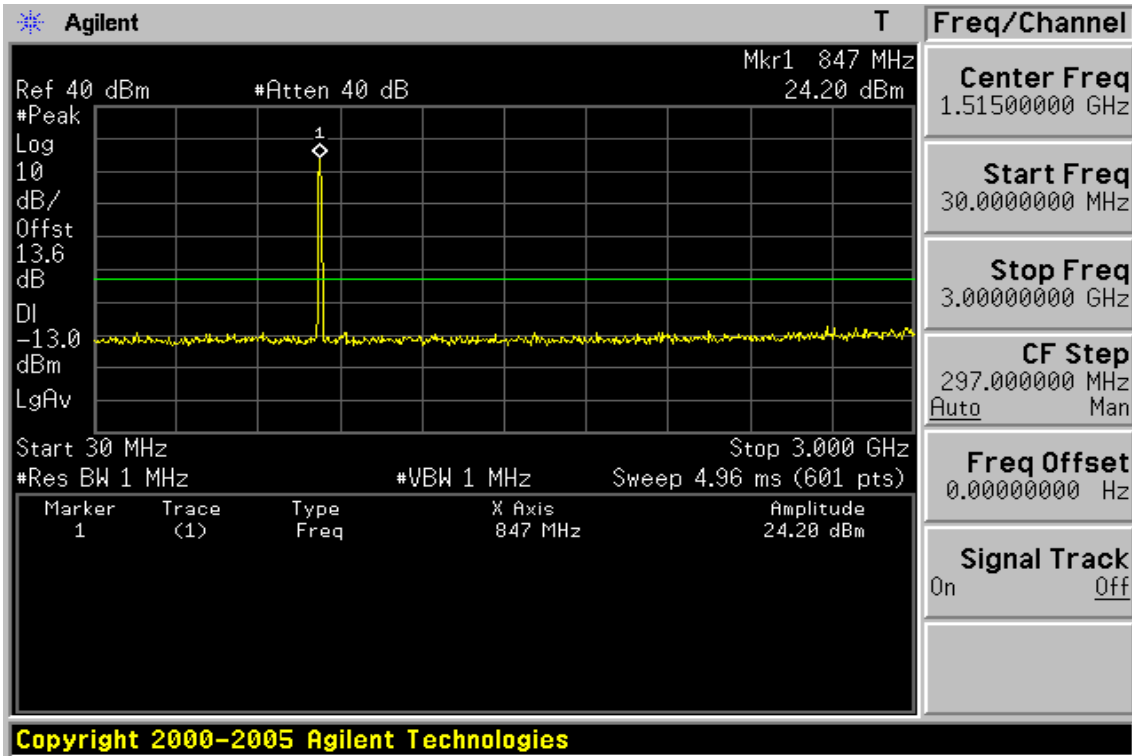
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Figure 9-43: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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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	---
7437.60	H	---	-13.00	---
7888.00	S	-25.84	-13.00	12.84
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	---
8366.00	H	---	-13.00	---
8507.00	S	-26.18	-13.00	13.18

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	---
7188.00	S	-25.88	-13.00	12.88
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 9-44: Band edge emission at antenna terminals – WCDMA V Channel Lowest

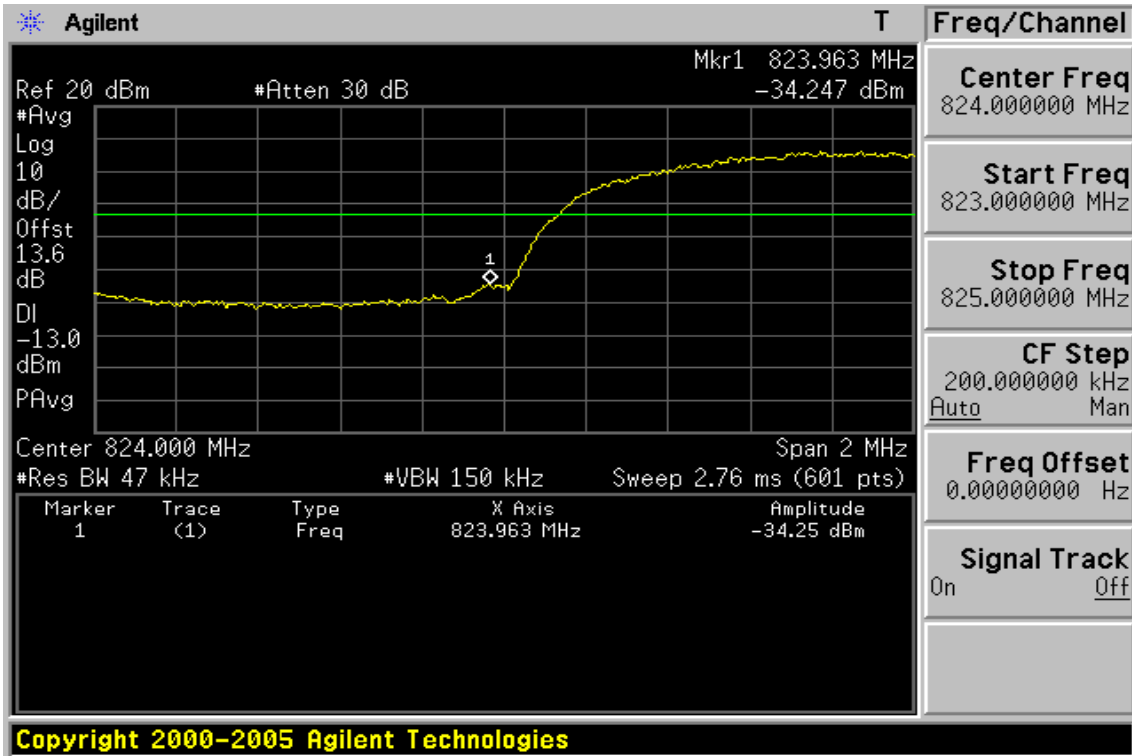
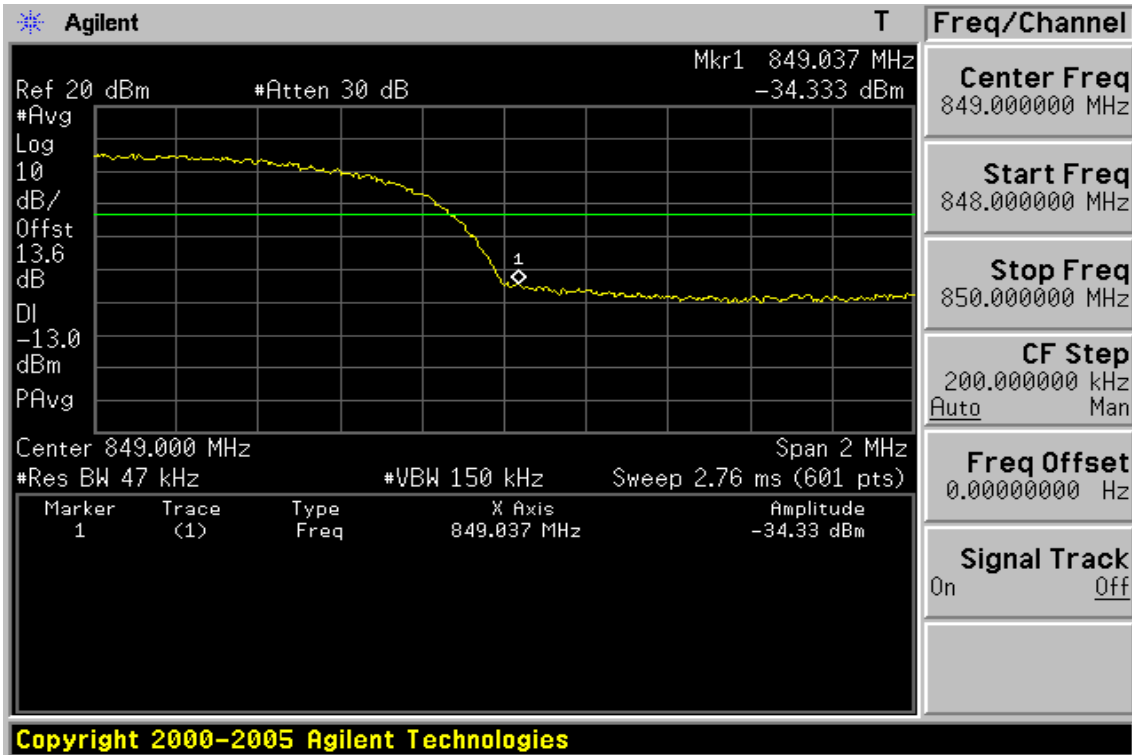


Figure 9-45: Band edge emission at antenna terminals – WCDMA V Channel Highest



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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
823.963	-34.25	-13.00	21.25
849.037	-34.33	-13.00	21.33

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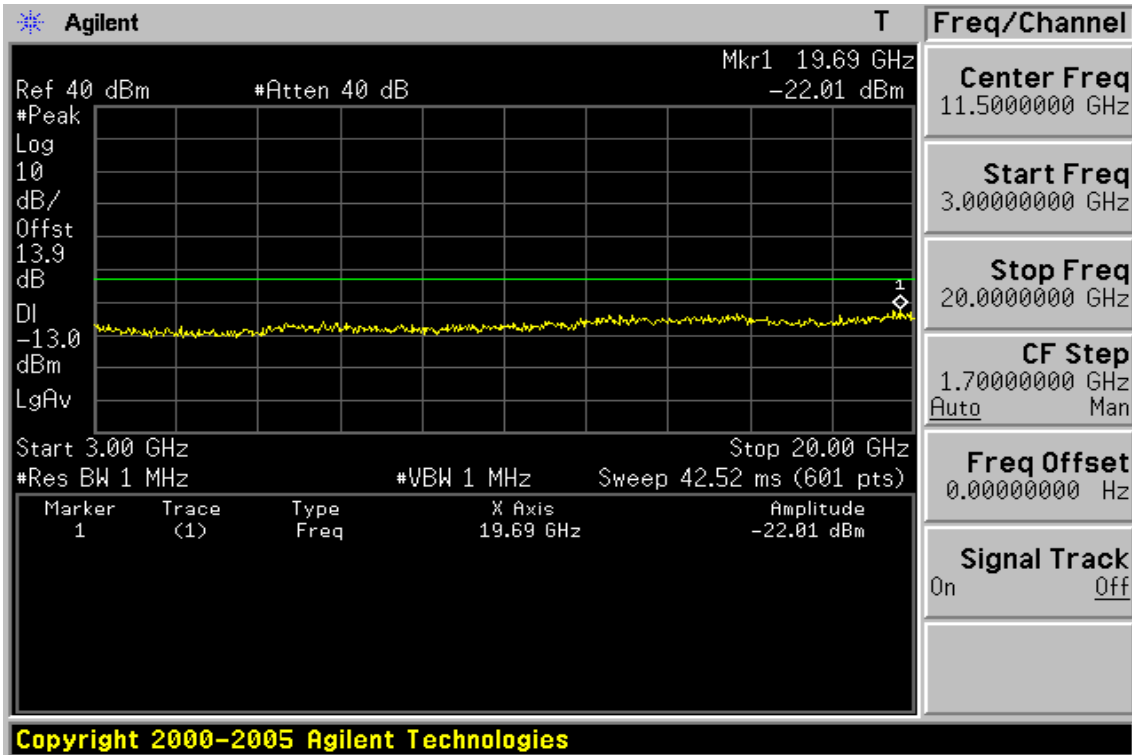
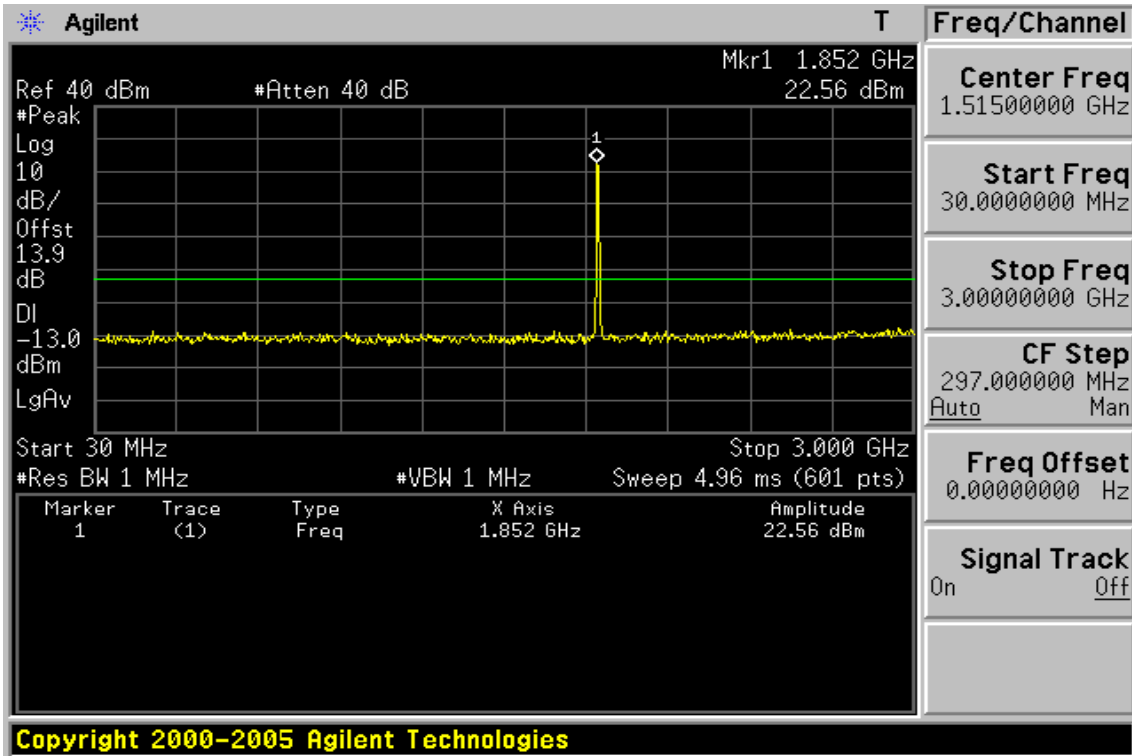
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Figure 9-46: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



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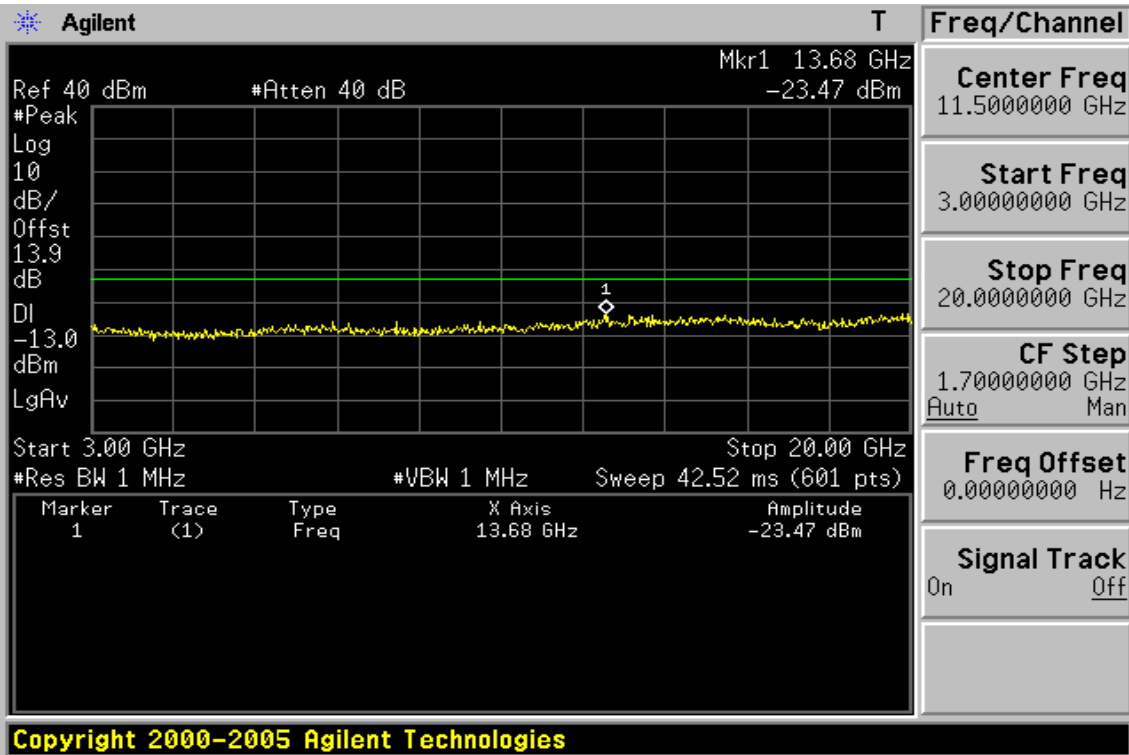
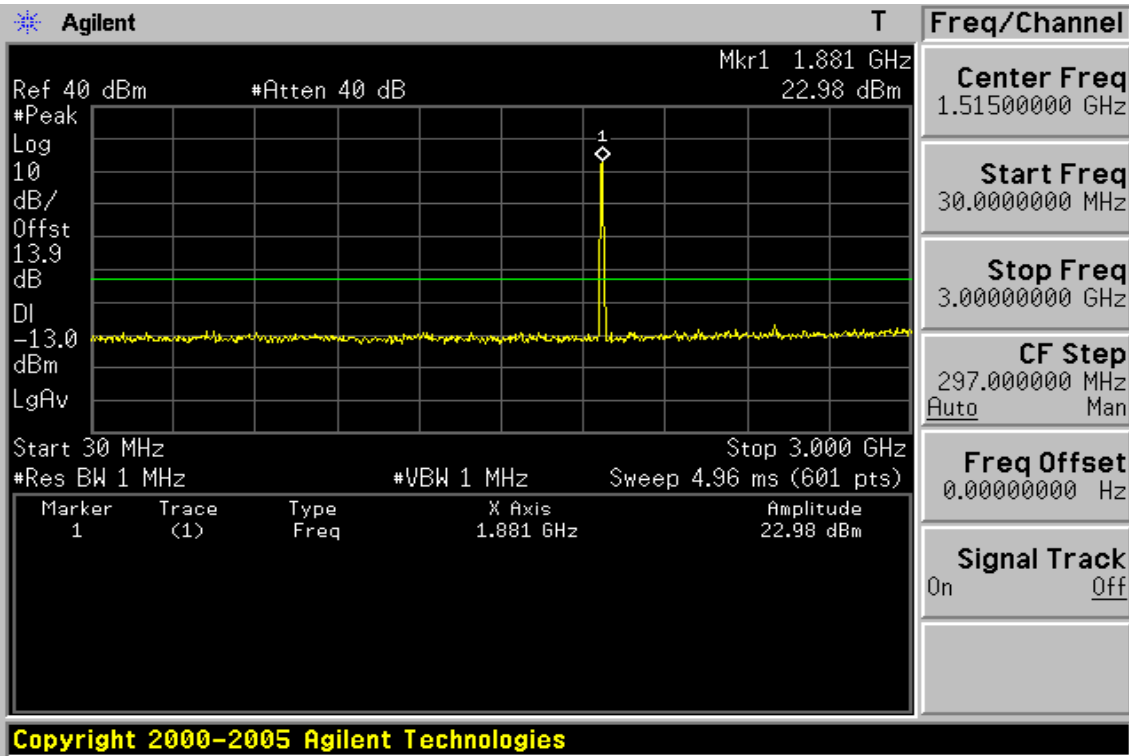
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Figure 9-47: Out of Band emission at antenna terminals – HSDPA II Channel Mid



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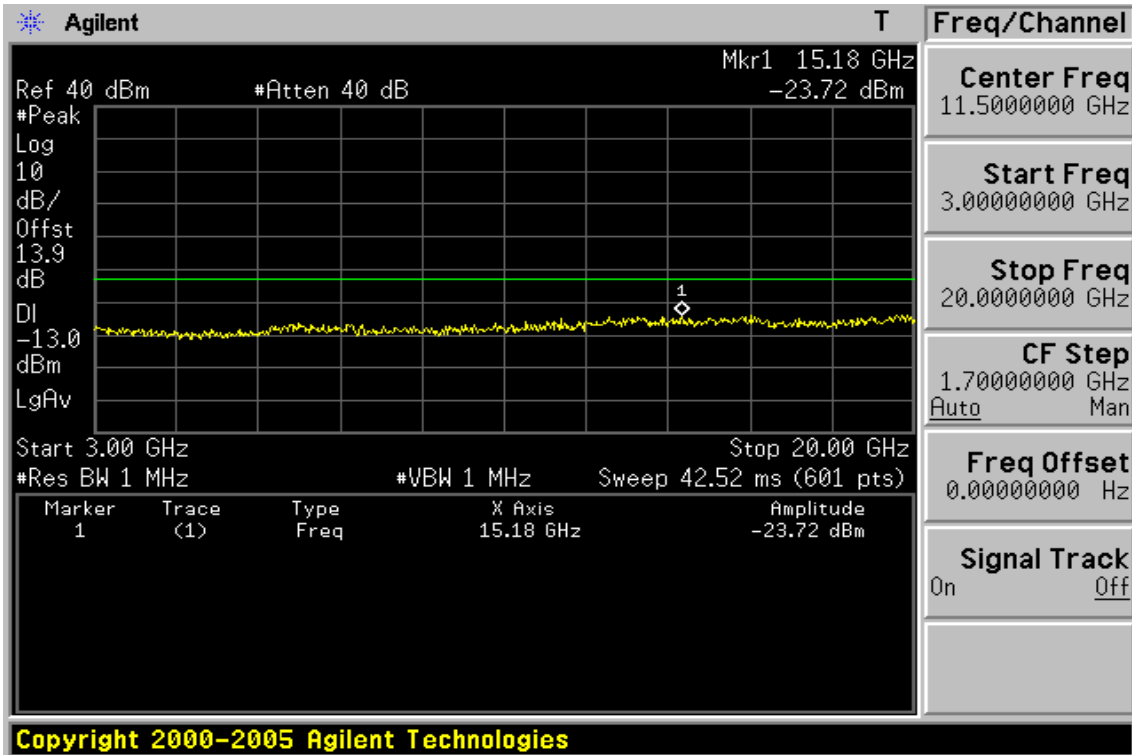
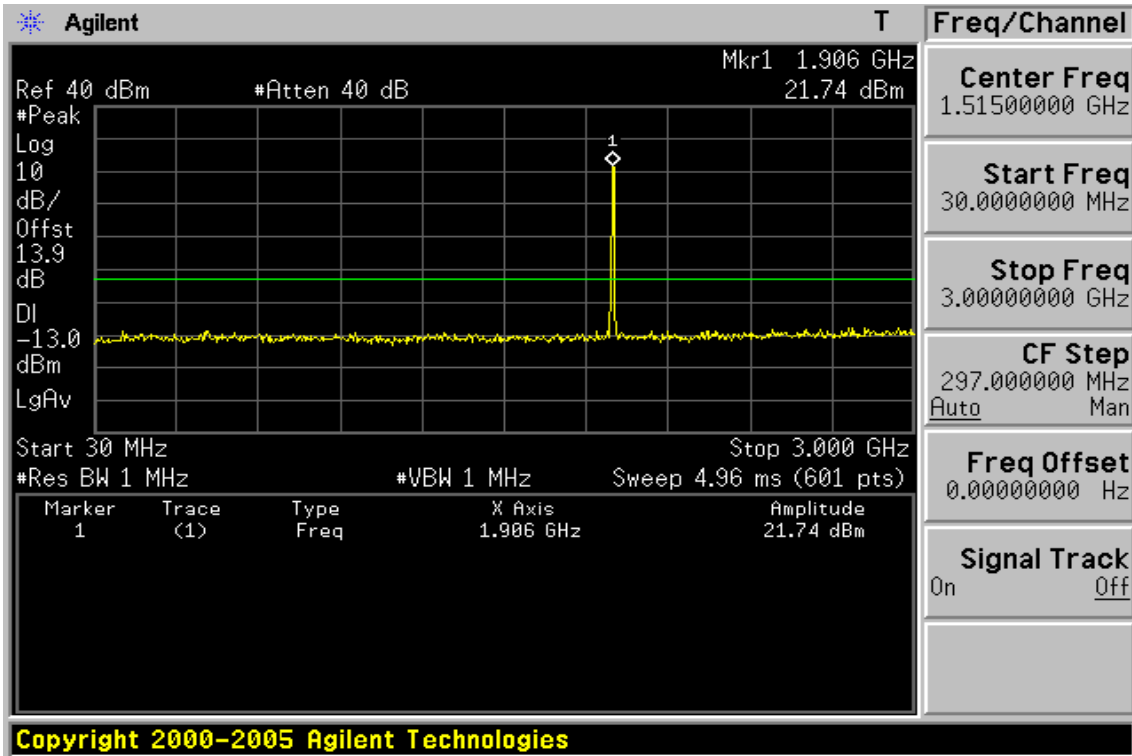
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Figure 9-48: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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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	---
14819.20	H	---	-13.00	---
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---
19690.00	S	-22.01	-13.00	9.01

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	---
13680.00	S	-23.47	-13.00	10.47
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 :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	---
15180.00	S	-23.72	-13.00	10.72
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 9-49: Band edge emission at antenna terminals – HSDPA II Channel Lowest

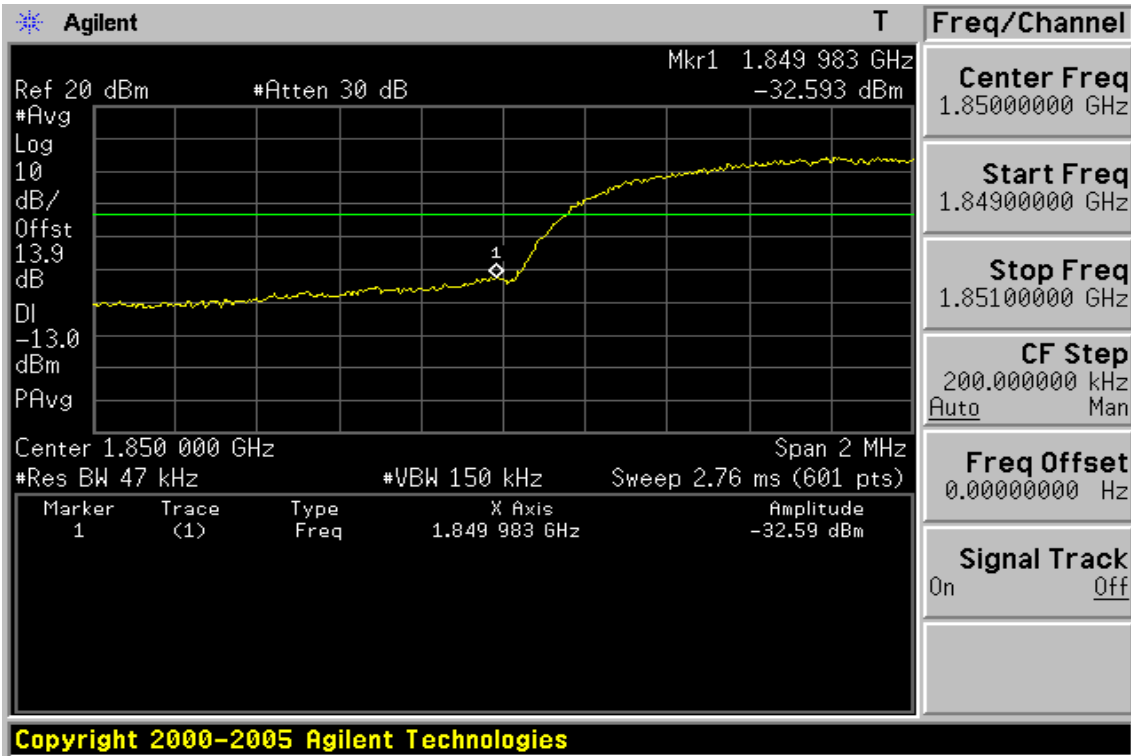
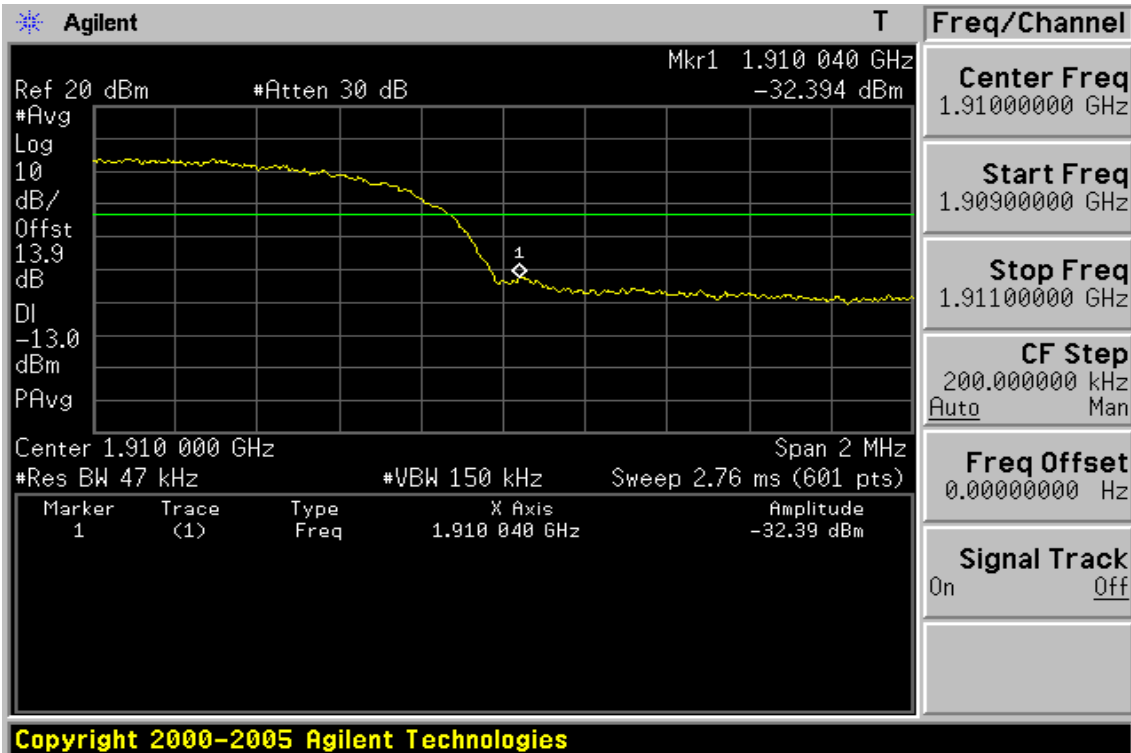


Figure 9-50: Band edge emission at antenna terminals – HSDPA II Channel Highest



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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
1849.983	-32.59	-13.00	19.59
1910.040	-32.39	-13.00	19.39

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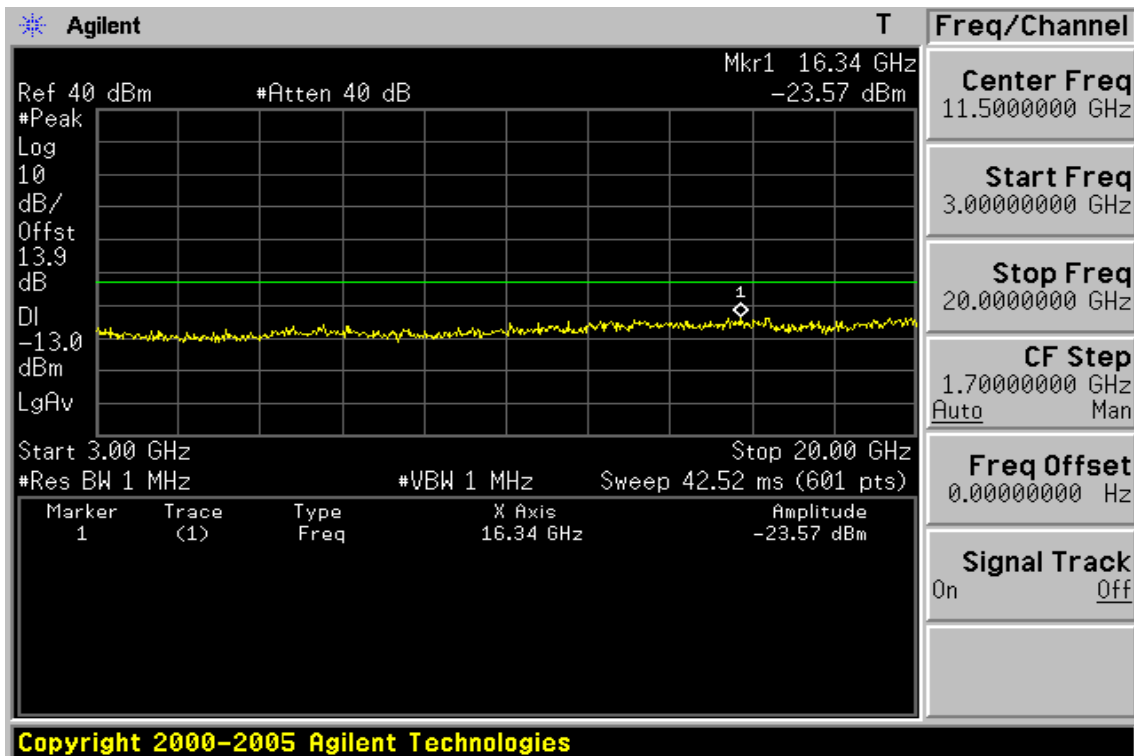
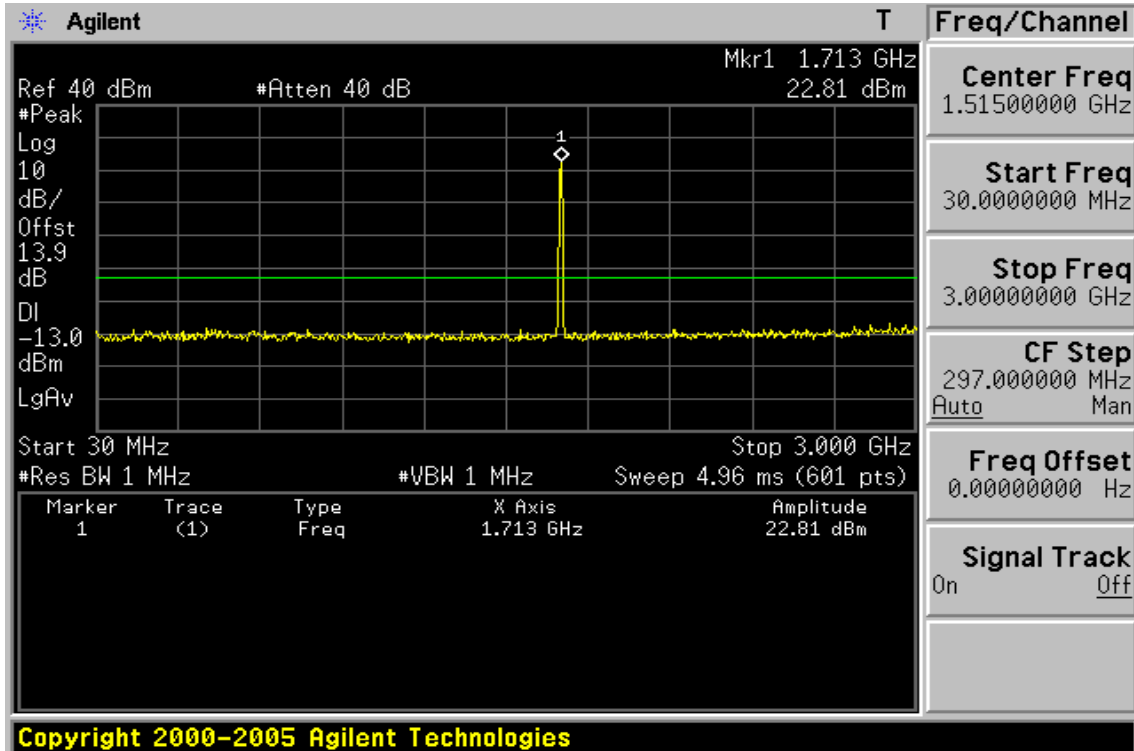
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Figure 9-51: Out of Band emission at antenna terminals HSHSDPA IV Channel Lowest



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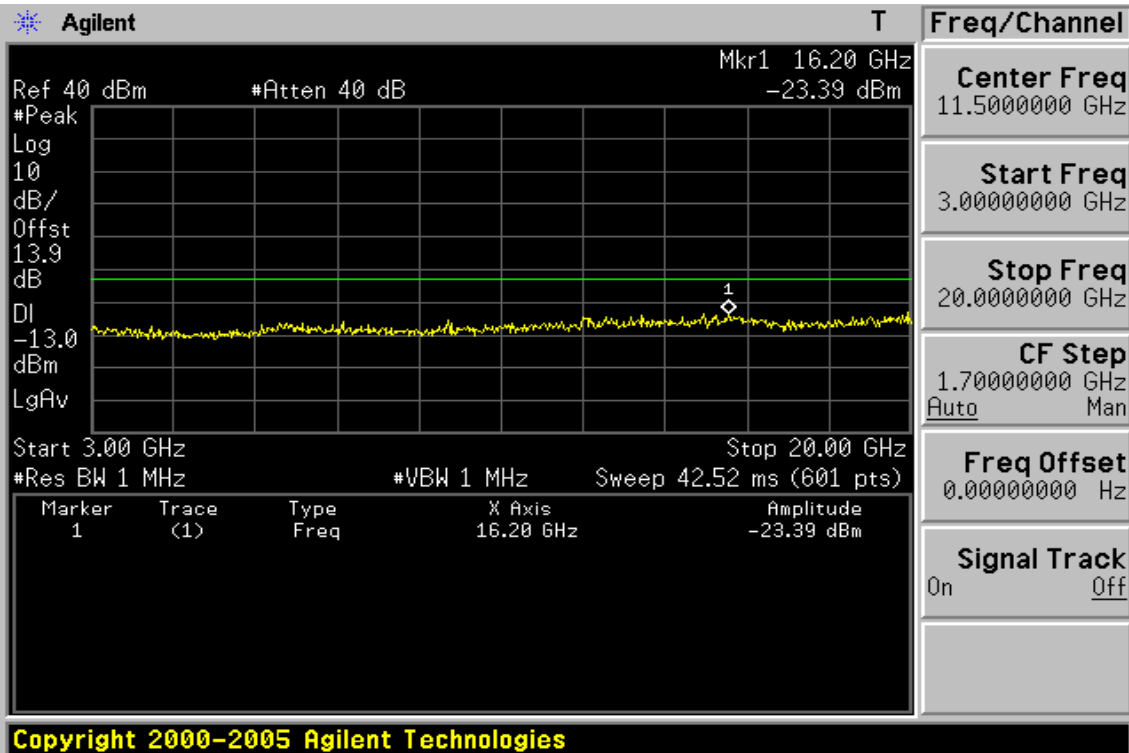
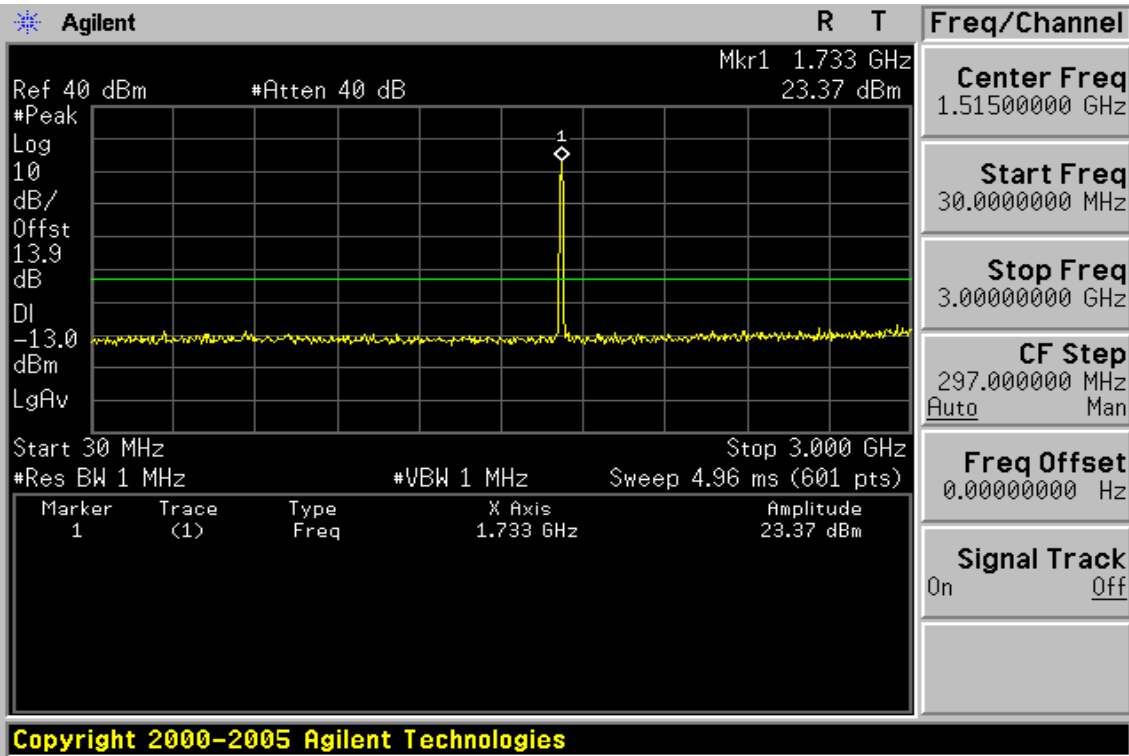
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Figure 9-52: Out of Band emission at antenna terminals –HSDPA IV Channel Mid



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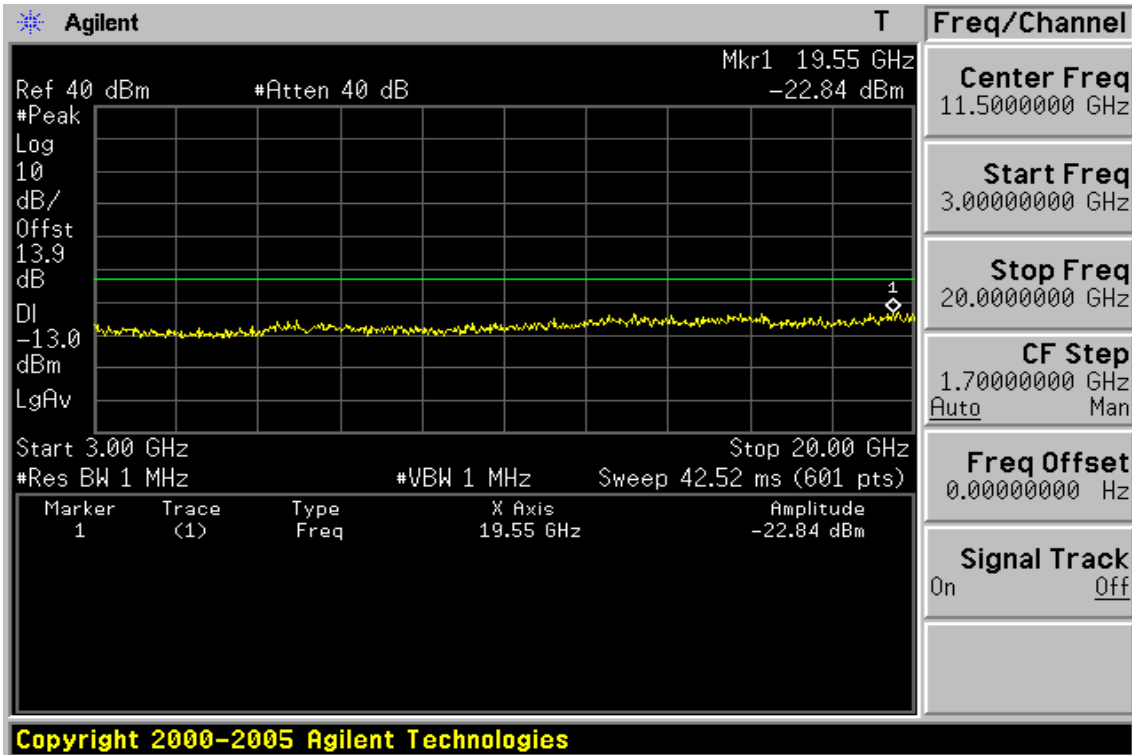
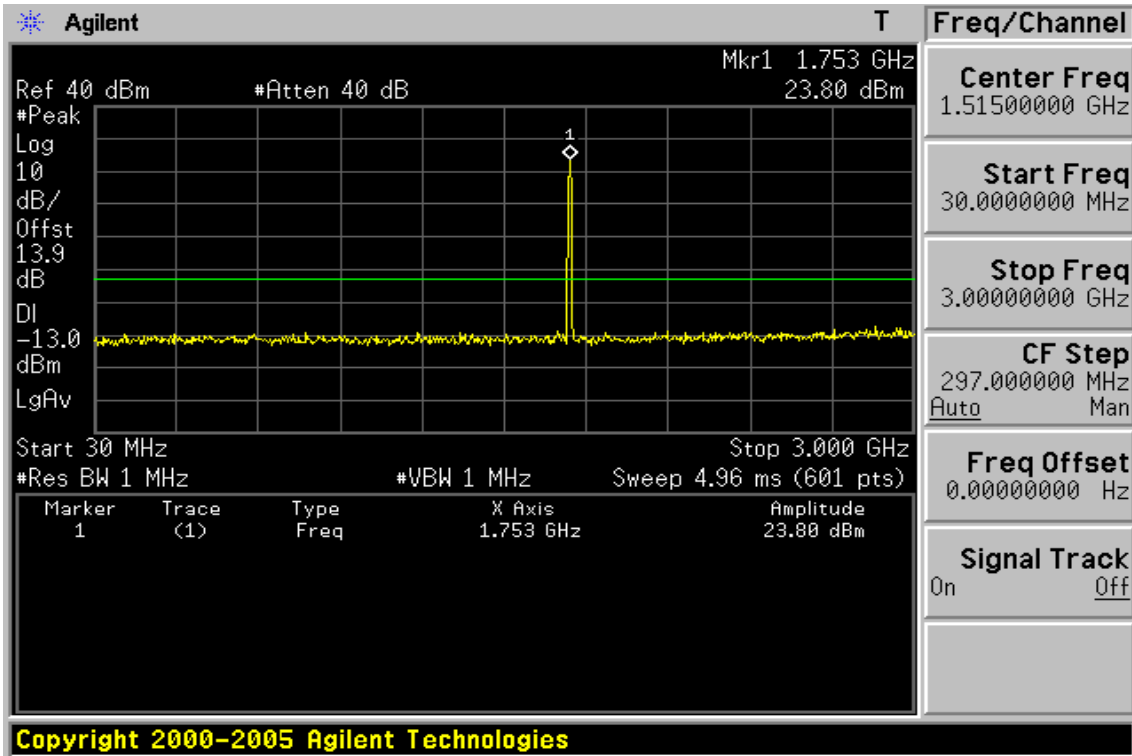
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Figure 9-53: Out of Band emission at antenna terminals –HSDPA IV Channel Highest



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Out of Band emission at antenna terminals –HSDPA IV

Fundamental Frequency 1712.4 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	---
3424.80	H	---	-13.00	---
5137.20	H	---	-13.00	---
6849.60	H	---	-13.00	---
8562.00	H	---	-13.00	---
10274.40	H	---	-13.00	---
11986.80	H	---	-13.00	---
13699.20	H	---	-13.00	---
15411.60	H	---	-13.00	---
16340.00	S	-23.57	-13.00	10.57
17124.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.6 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	---
3465.20	H	---	-13.00	---
5197.80	H	---	-13.00	---
6930.40	H	---	-13.00	---
8663.00	H	---	-13.00	---
10395.60	H	---	-13.00	---
12128.20	H	---	-13.00	---
13860.80	H	---	-13.00	---
15593.40	H	---	-13.00	---
16200.00	S	-23.39	-13.00	10.39
17326.00	H	---	-13.00	---

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

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Fundamental Frequency 1752.6MHz 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	---
3505.20	H	---	-13.00	---
5257.80	H	---	-13.00	---
7010.40	H	---	-13.00	---
8763.00	H	---	-13.00	---
10515.60	H	---	-13.00	---
12268.20	H	---	-13.00	---
14020.80	H	---	-13.00	---
15773.40	H	---	-13.00	---
17526.00	H	---	-13.00	---
19550.00	S	-22.84	-13.00	9.84

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

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Figure 9-54: Band edge emission at antenna terminals –HSDPA IV Channel Lowest

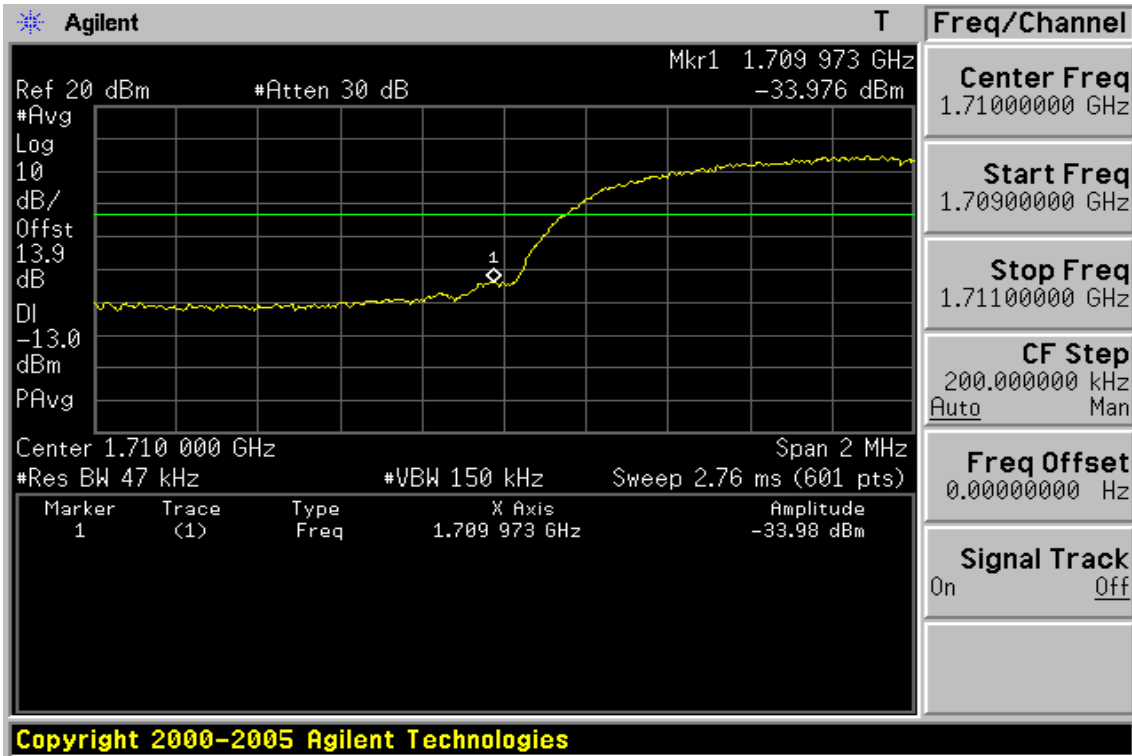
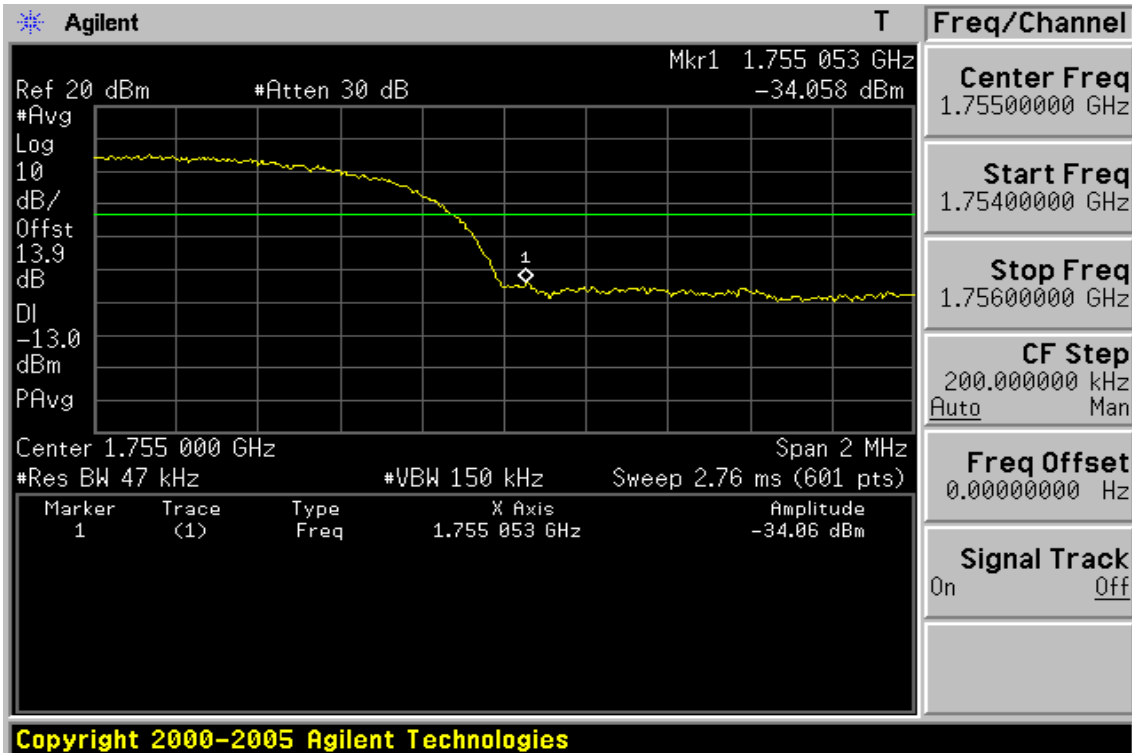


Figure 9-55: Band edge emission at antenna terminals –HSDPA IV Channel Highest



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

Test Mode HSDPA IV Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.973	-33.98	-13.00	20.98
1755.053	-34.06	-13.00	21.06

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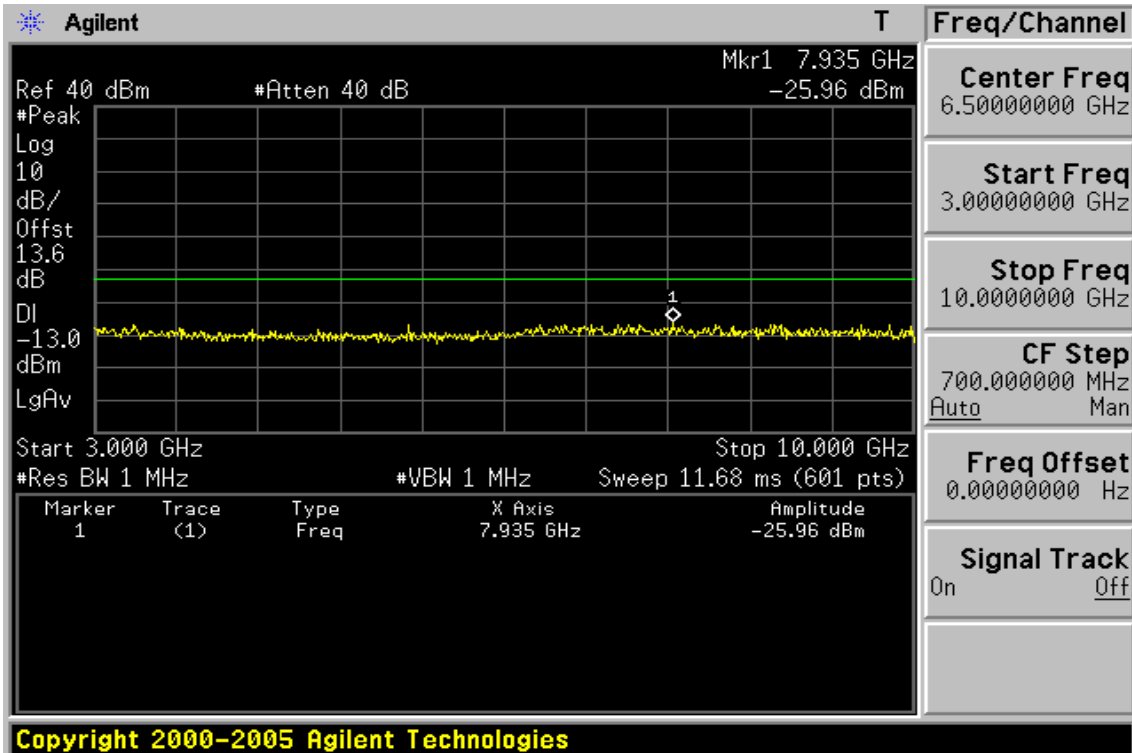
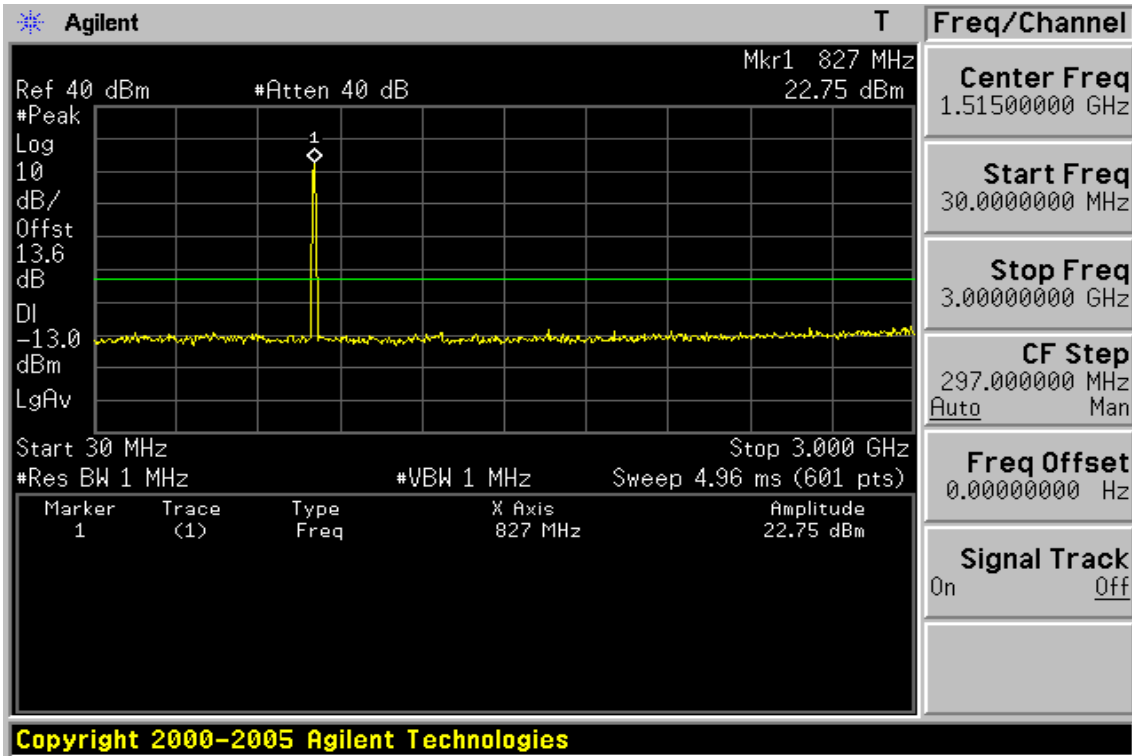
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Figure 9-56: Out of Band emission at antenna terminals – HSDPA V Channel Lowest



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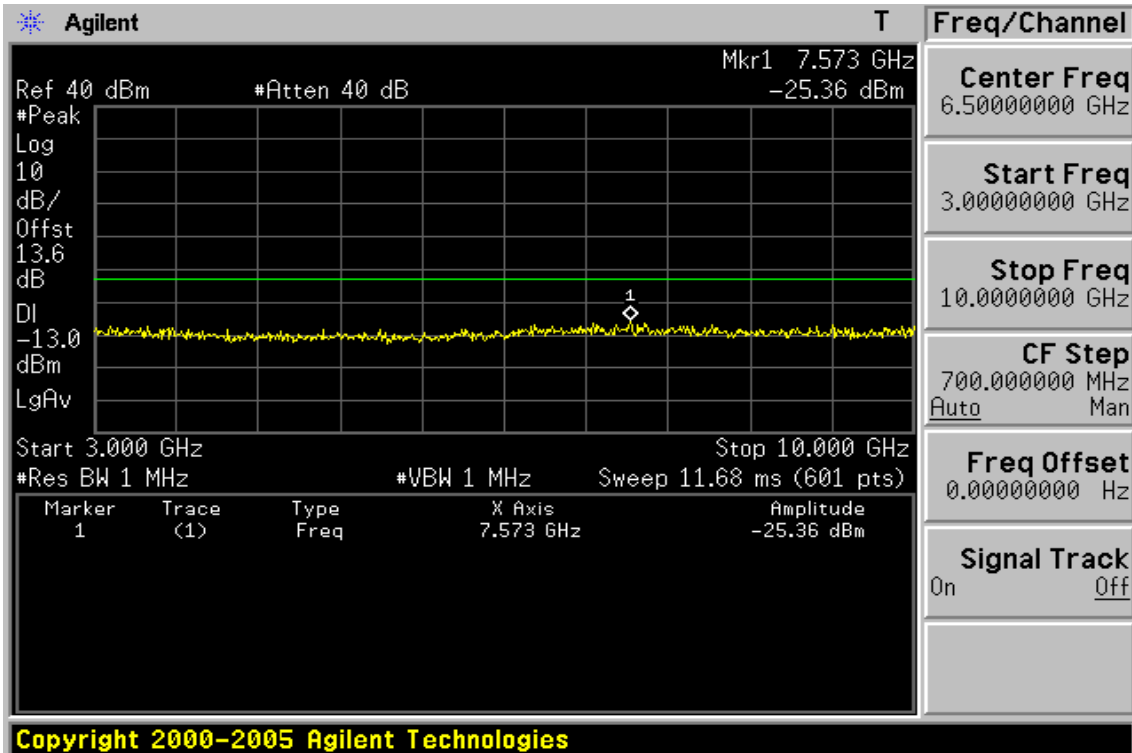
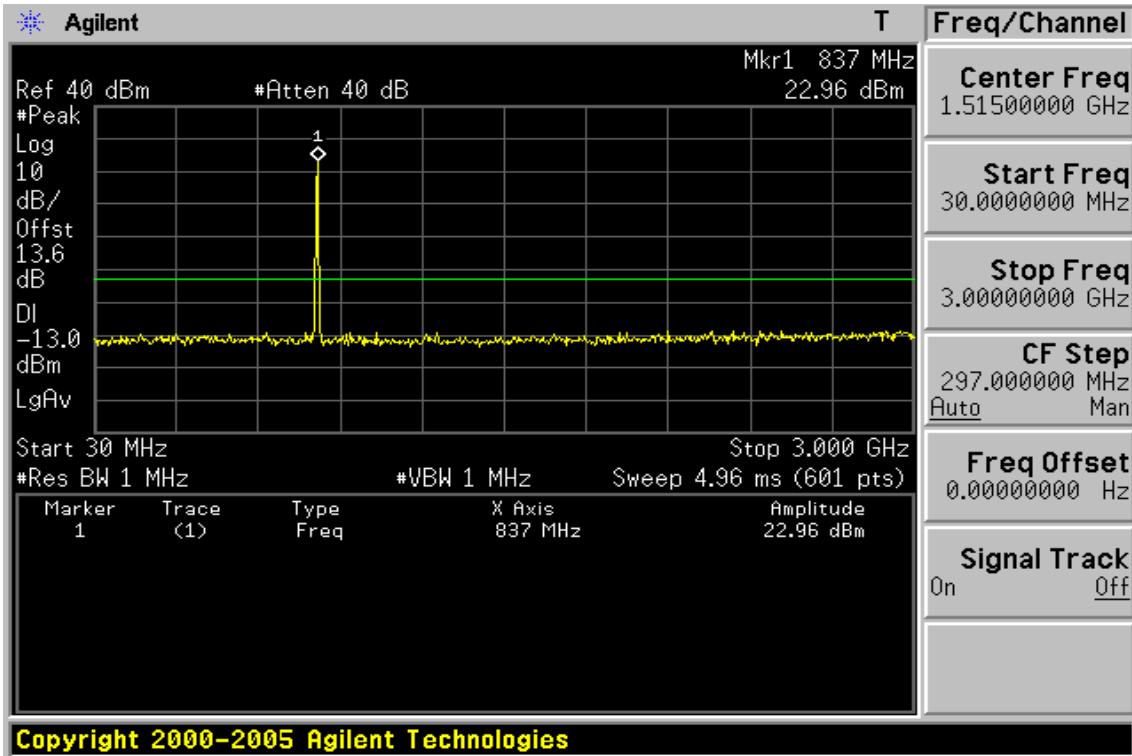
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Figure 9-57: Out of Band emission at antenna terminals – HSDPA V Channel Mid



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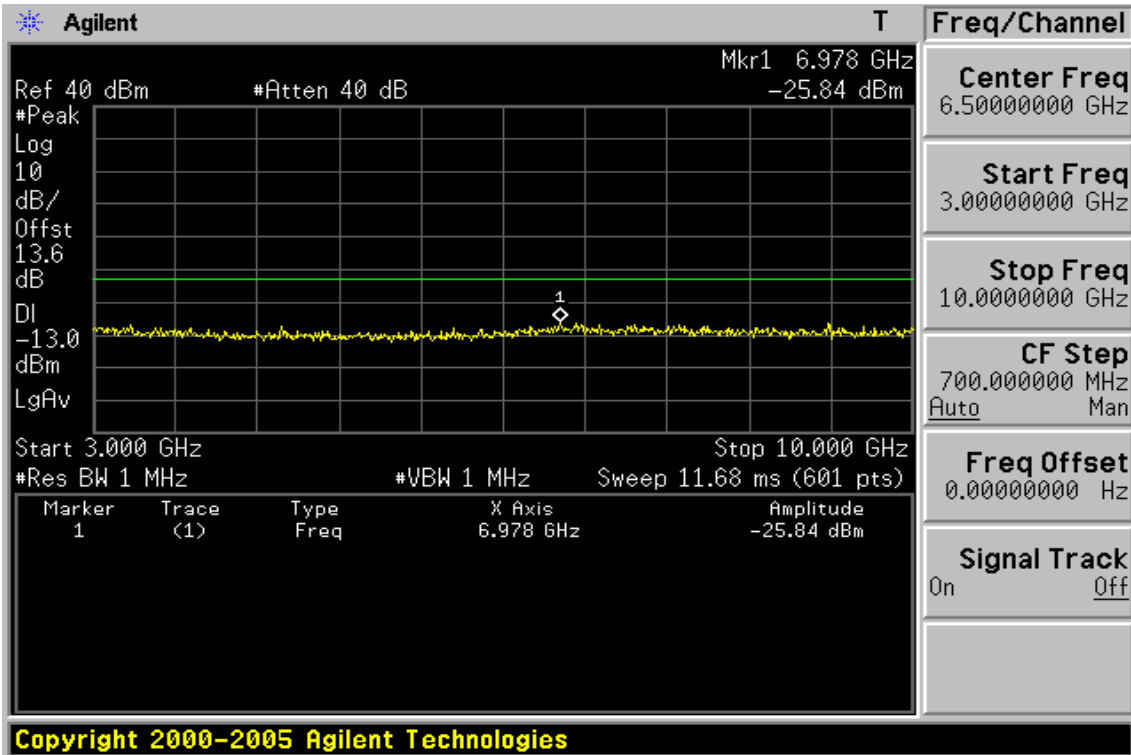
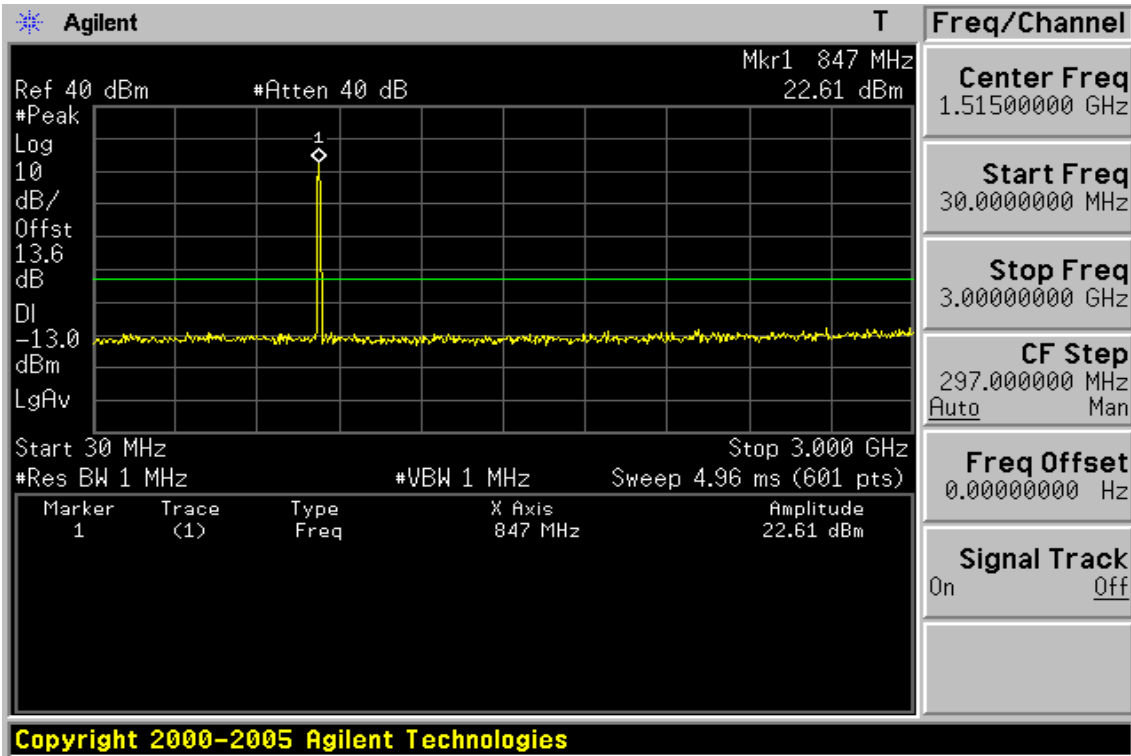
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Figure 9-58: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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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	---
7935.00	S	-25.96	-13.00	12.96
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	---
7573.00	S	-25.36	-13.00	12.36
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	---
6978.00	S	-25.84	-13.00	12.84
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 9-59: Band edge emission at antenna terminals – HSDPA V Channel Lowest

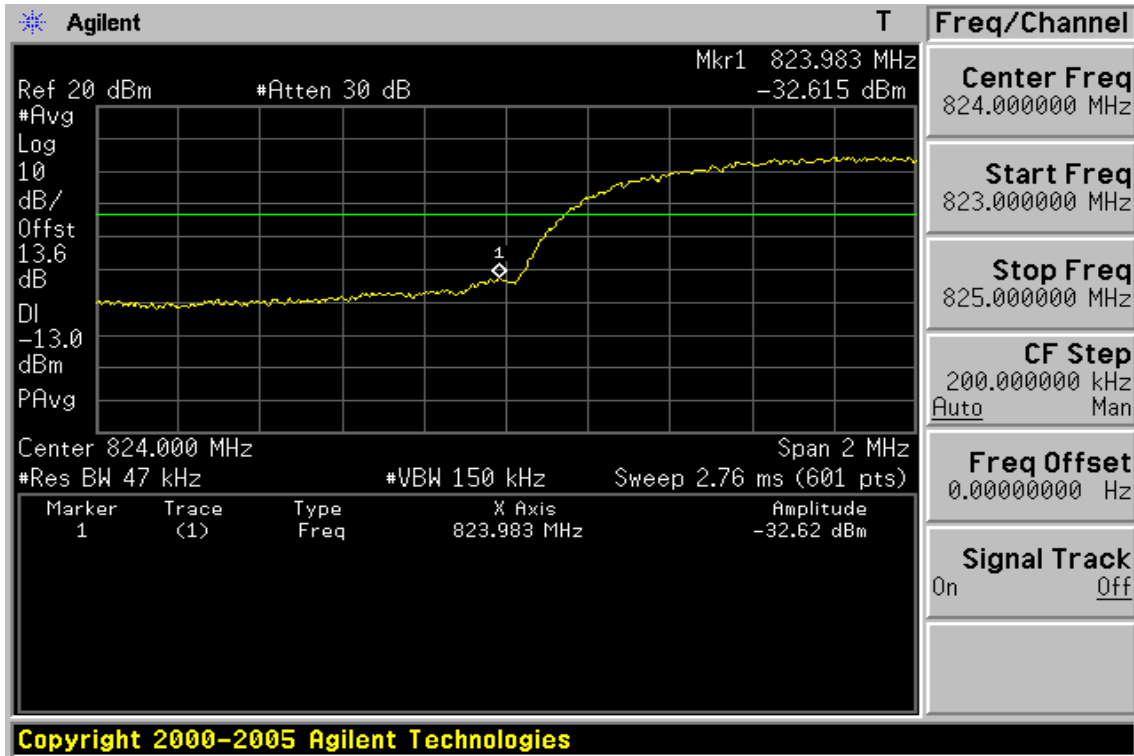
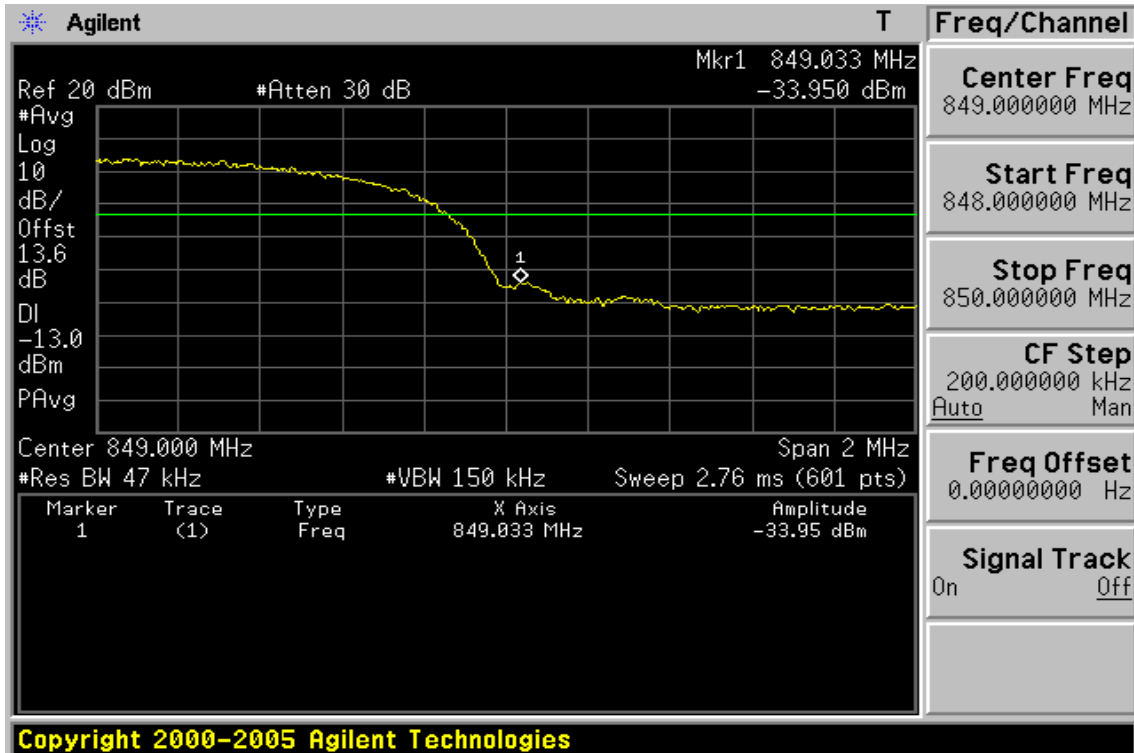


Figure 9-60: Band edge emission at antenna terminals – HSDPA V Channel Highest



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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
823.983	-32.62	-13.00	19.62
849.033	-33.95	-13.00	20.95

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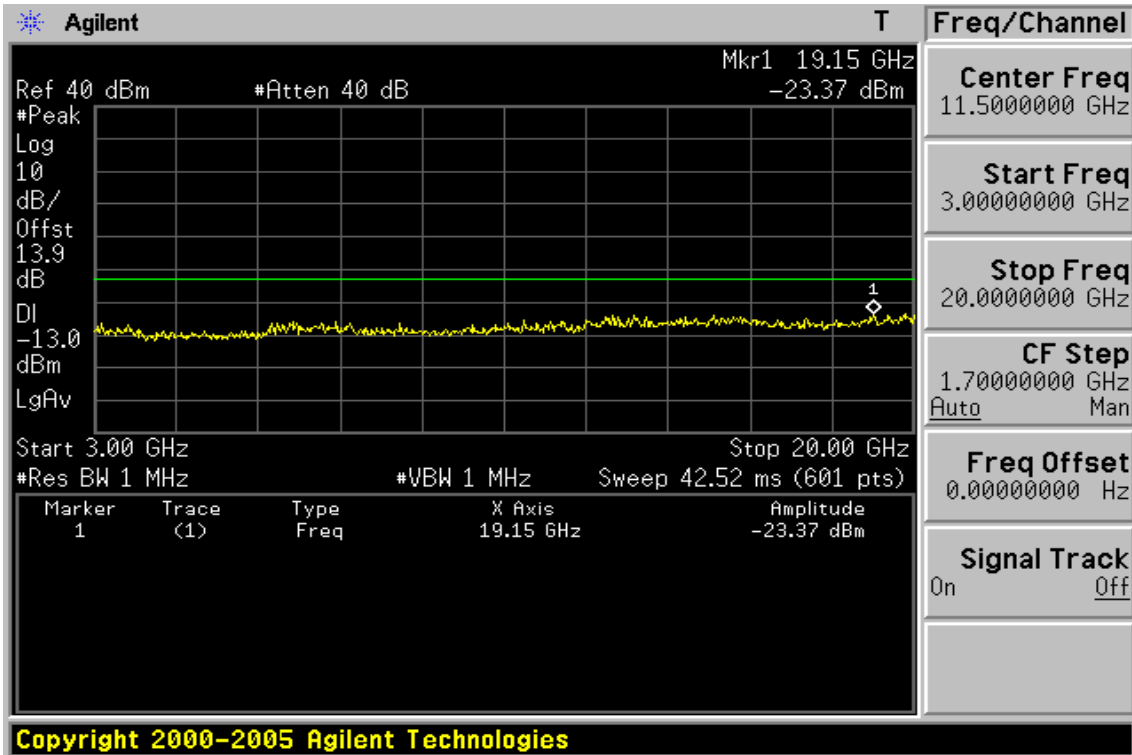
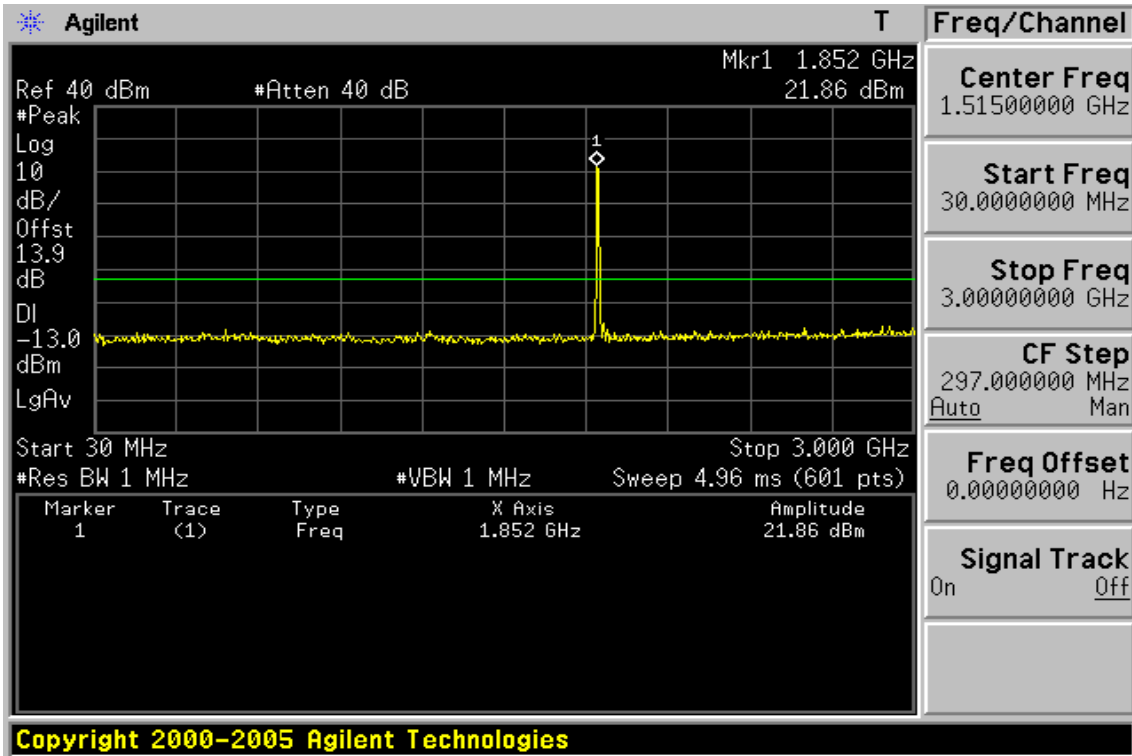
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Figure 9-61: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



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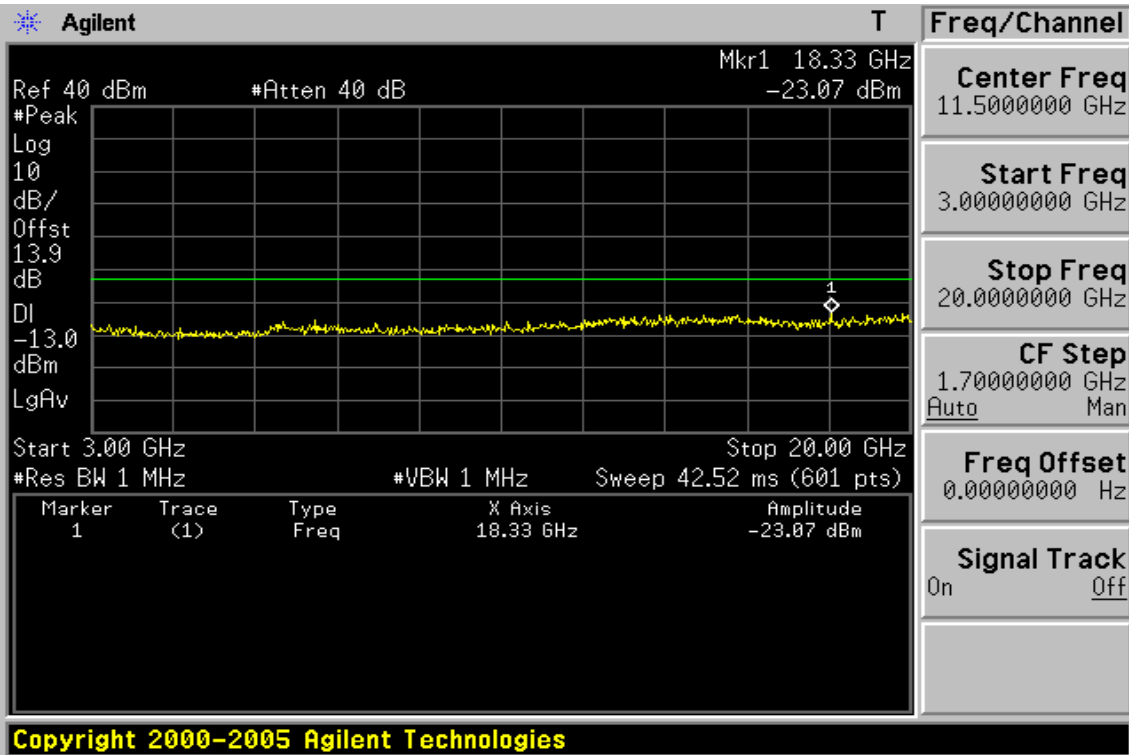
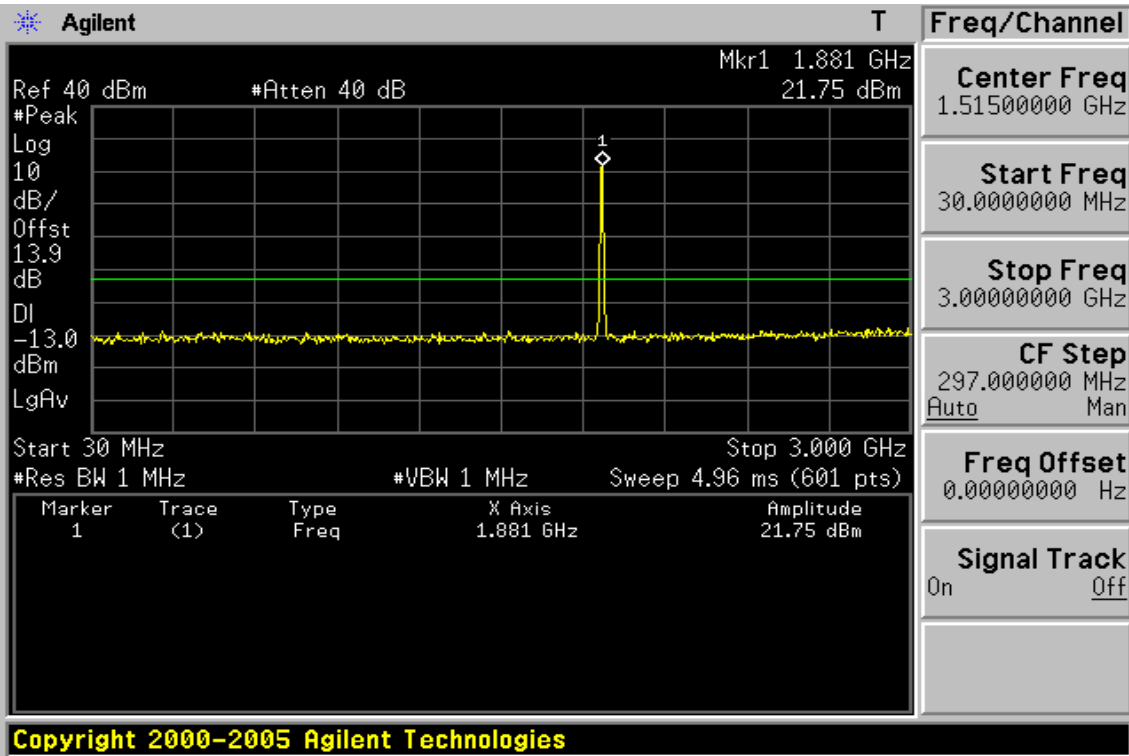
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Figure 9-62: Out of Band emission at antenna terminals – HSUPA II Channel Mid



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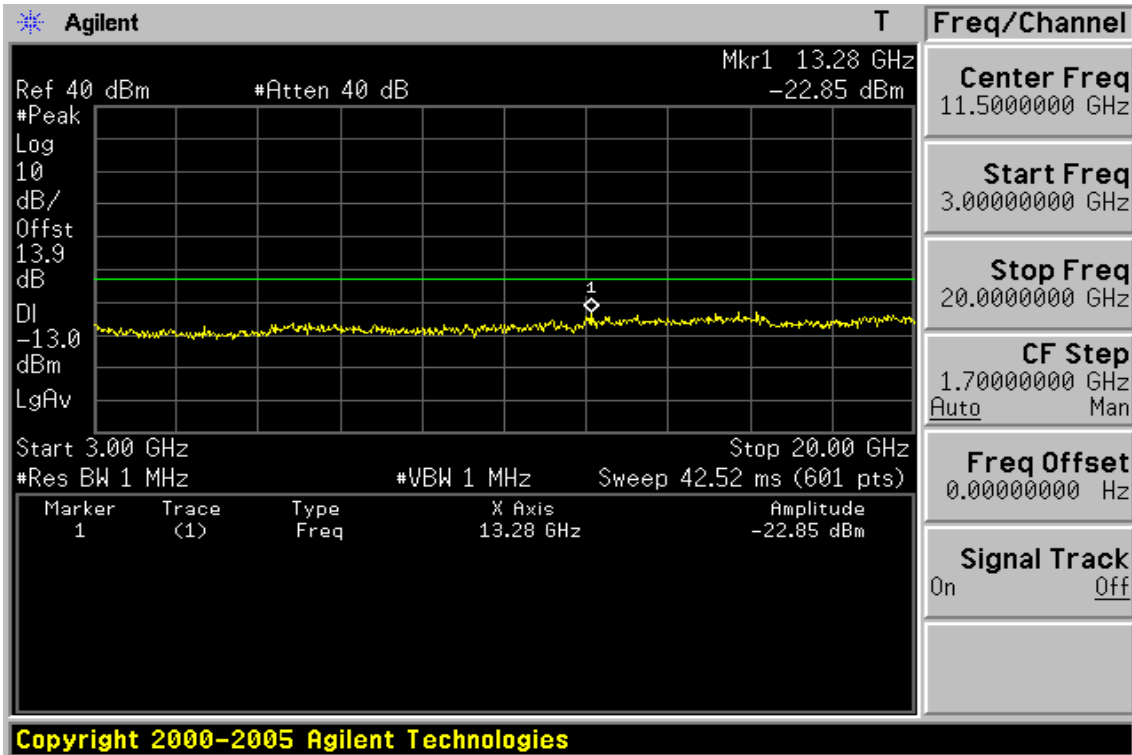
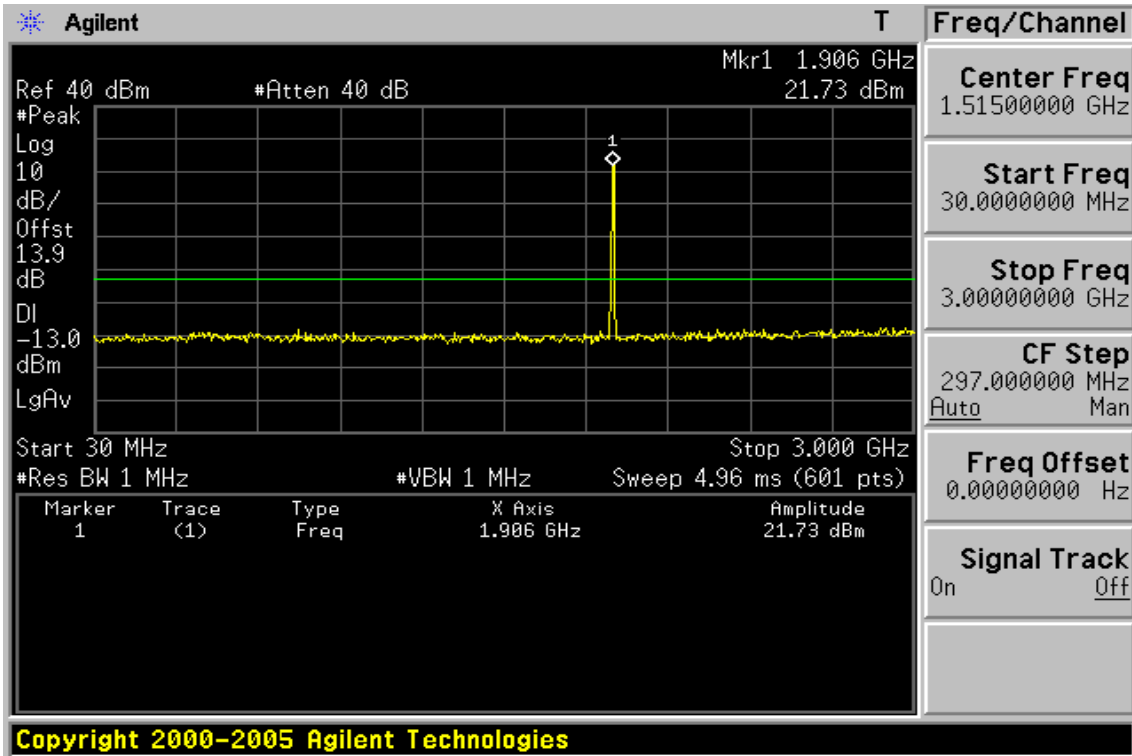
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Figure 9-63: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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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	---
18524.00	H	---	-13.00	---
19150.00	S	-23.37	-13.00	10.37

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	---
18330.00	S	-23.07	-13.00	10.07
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	---
13280.00	S	-22.85	-13.00	9.85
13353.20	H	---	-13.00	---
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 9-64: Band edge emission at antenna terminals – HSUPA II Channel Lowest

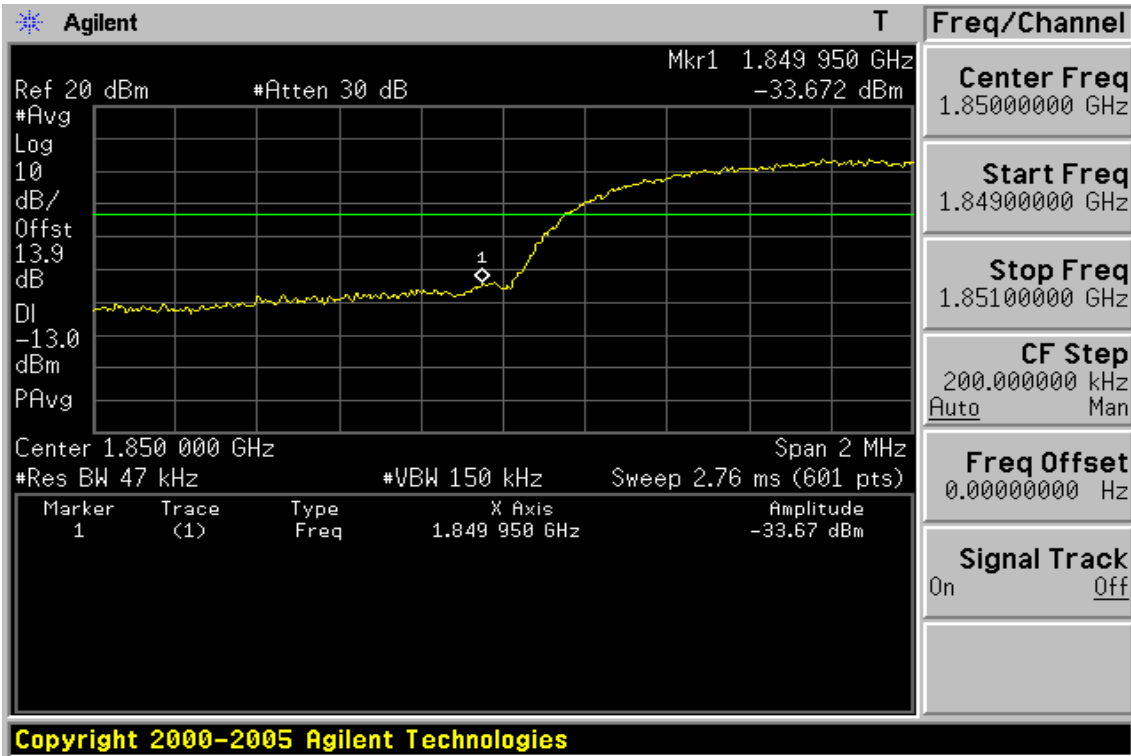
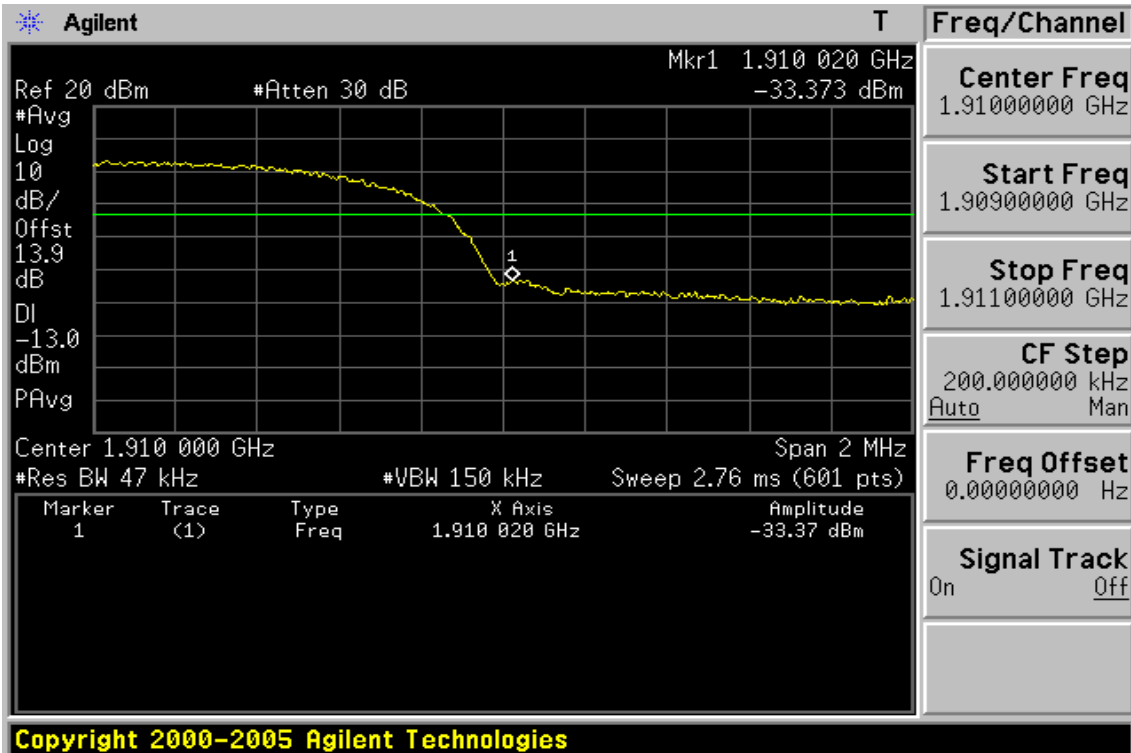


Figure 9-65: Band edge emission at antenna terminals – HSUPA II Channel Highest



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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
1849.950	-33.67	-13.00	20.67
1910.020	-33.37	-13.00	20.37

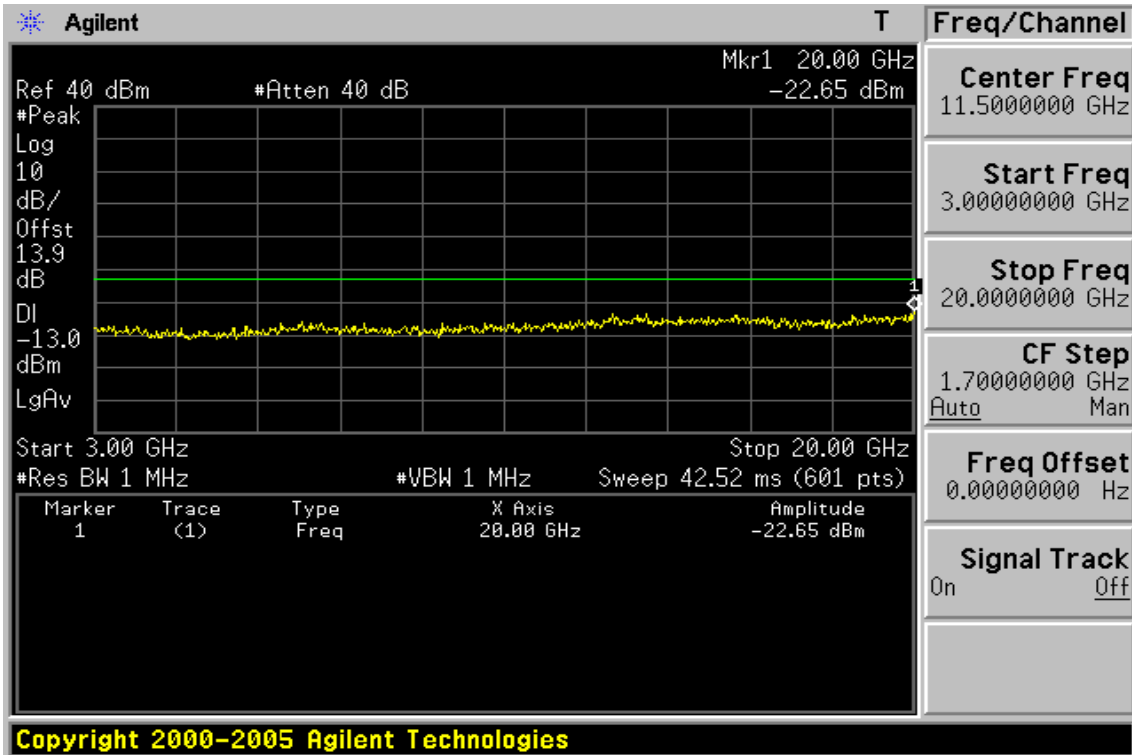
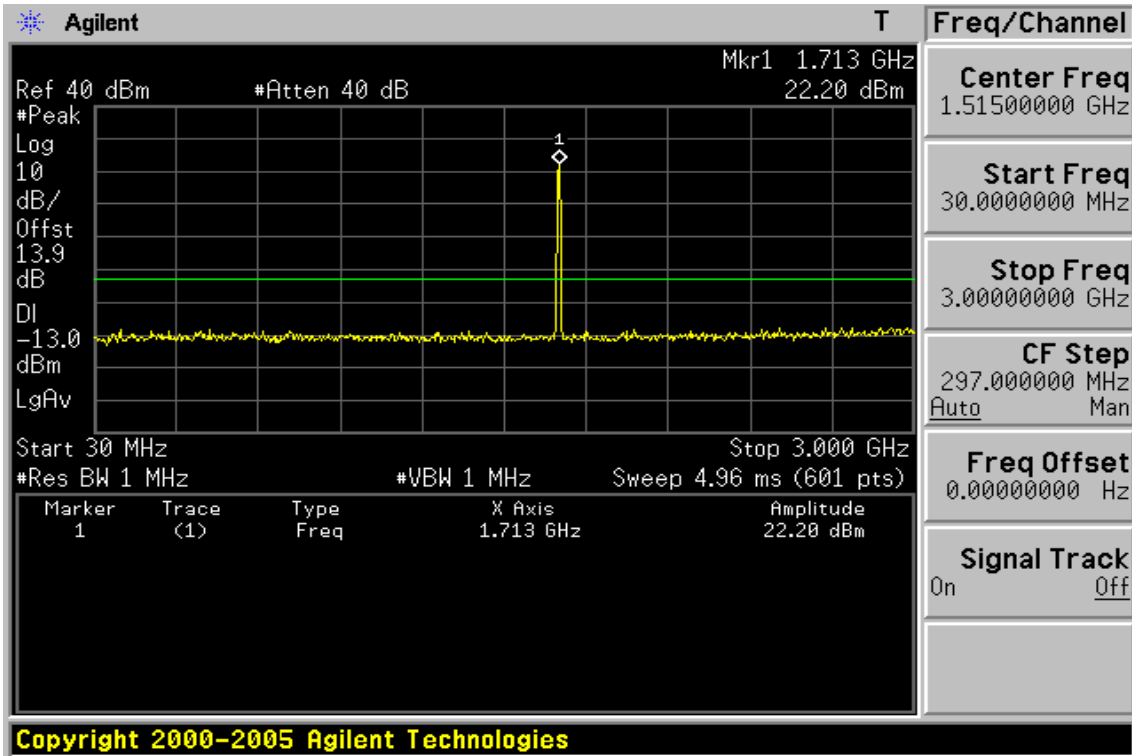
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Figure 9-66: Out of Band emission at antenna terminals –HSUPA IV Channel Lowest



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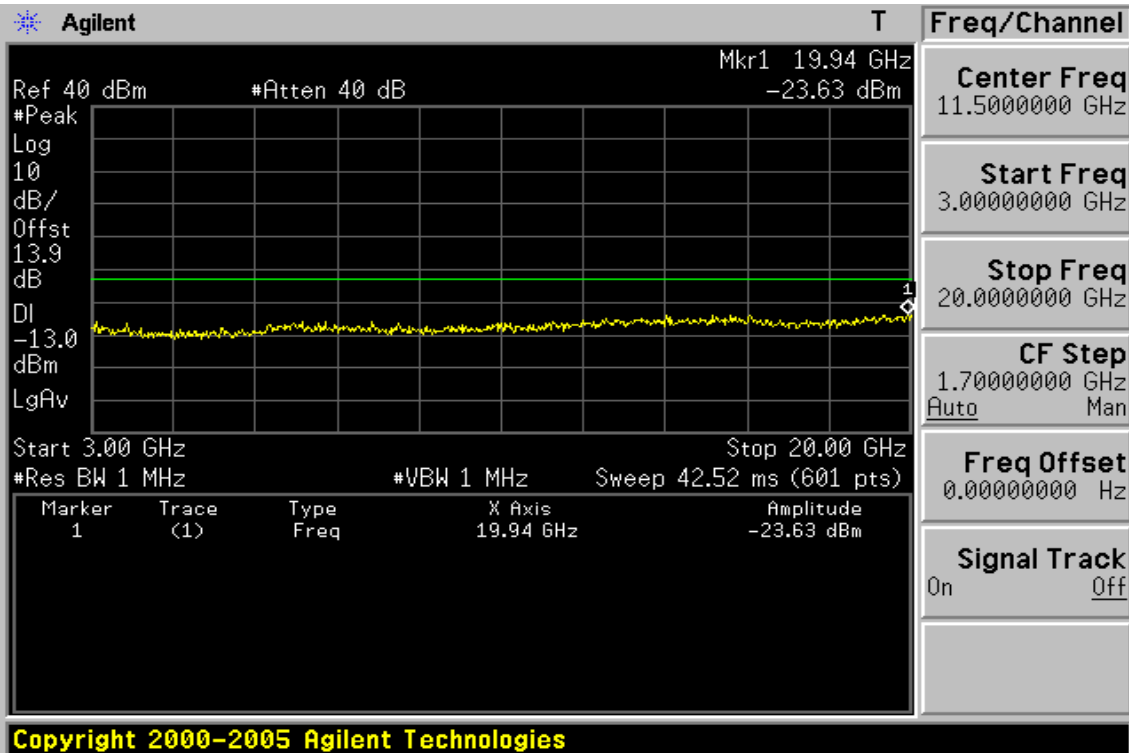
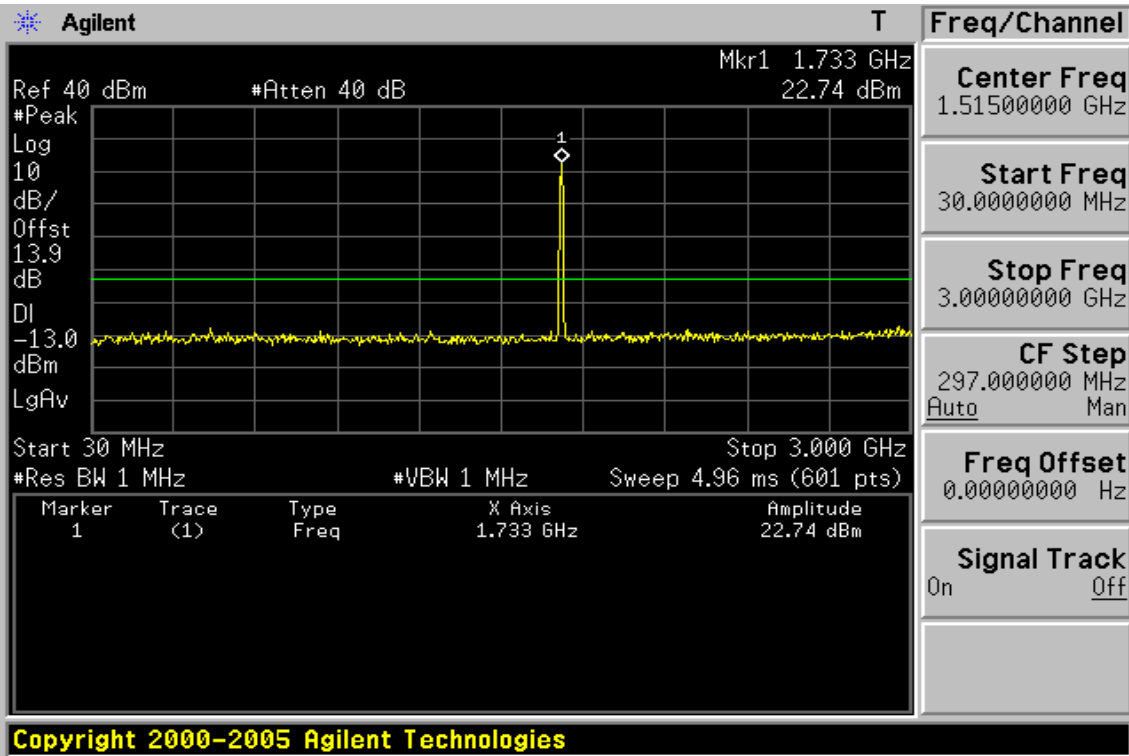
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Figure 9-67: Out of Band emission at antenna terminals –HSUPA IV Channel Mid



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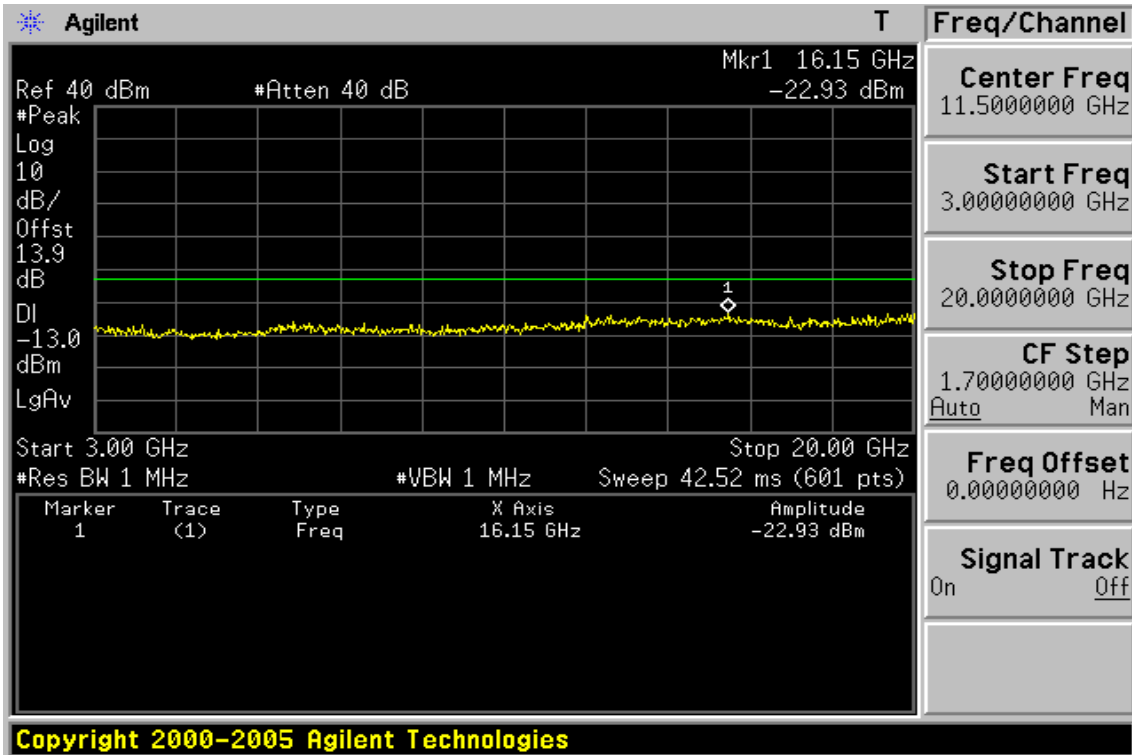
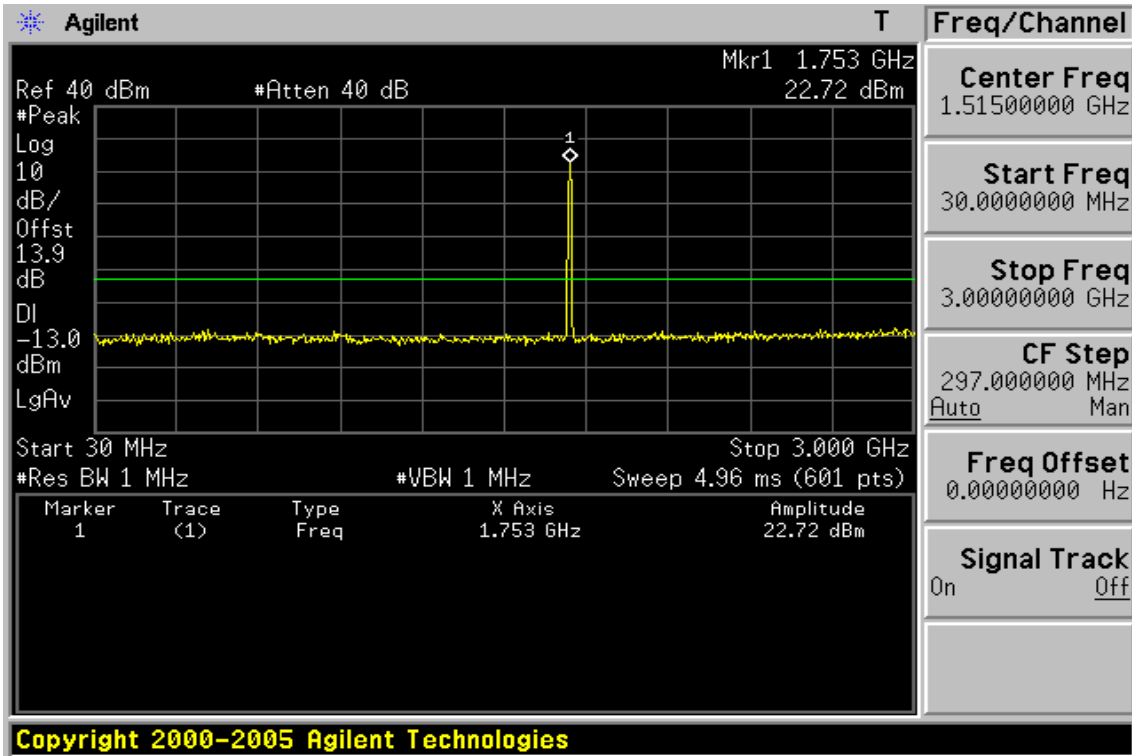
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Figure 9-68: Out of Band emission at antenna terminals –HSUPA IV Channel Highest



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Out of Band emission at antenna terminals –HSUPA IV

Fundamental Frequency 1712.4 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	---
3424.80	H	---	-13.00	---
5137.20	H	---	-13.00	---
6849.60	H	---	-13.00	---
8562.00	H	---	-13.00	---
10274.40	H	---	-13.00	---
11986.80	H	---	-13.00	---
13699.20	H	---	-13.00	---
15411.60	H	---	-13.00	---
17124.00	H	---	-13.00	---
20000.00	S	-22.65	-13.00	9.65

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

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Fundamental Frequency :1732.6 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	---
3465.20	H	---	-13.00	---
5197.80	H	---	-13.00	---
6930.40	H	---	-13.00	---
8663.00	H	---	-13.00	---
10395.60	H	---	-13.00	---
12128.20	H	---	-13.00	---
13860.80	H	---	-13.00	---
15593.40	H	---	-13.00	---
17326.00	H	---	-13.00	---
19940.00	S	-23.63	-13.00	10.63

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

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Fundamental Frequency 1752.6MHz 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	---
3505.20	H	---	-13.00	---
5257.80	H	---	-13.00	---
7010.40	H	---	-13.00	---
8763.00	H	---	-13.00	---
10515.60	H	---	-13.00	---
12268.20	H	---	-13.00	---
14020.80	H	---	-13.00	---
15773.40	H	---	-13.00	---
16150.00	S	-22.93	-13.00	9.93
17526.00	H	---	-13.00	---

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

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Figure 9-69: Band edge emission at antenna terminals –HSUPA IV Channel Lowest

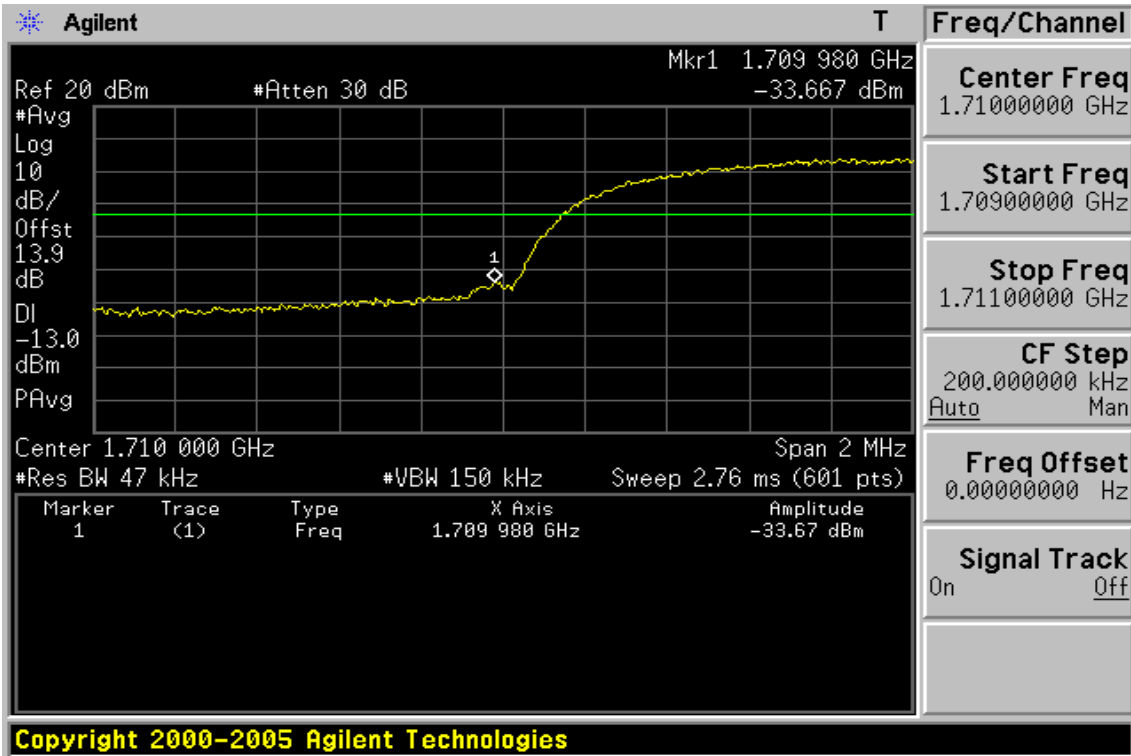
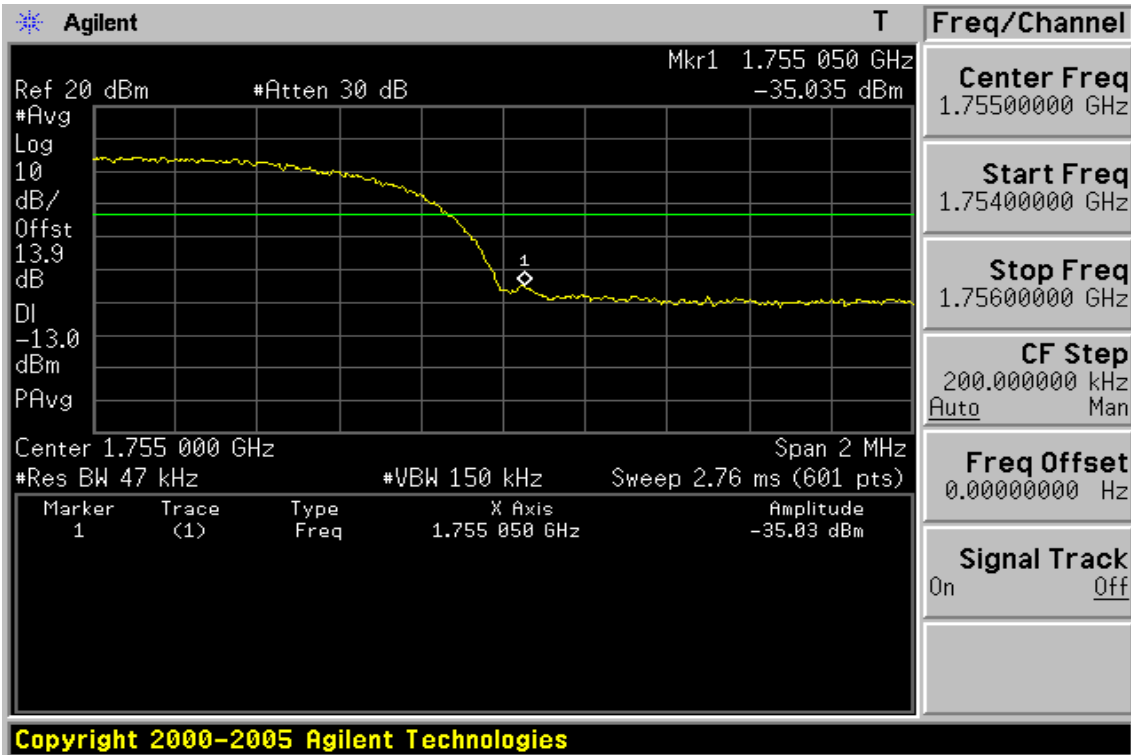


Figure 9-70: Band edge emission at antenna terminals –HSUPA IV Channel Highest



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

Test Mode HSUPA IV Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.980	-33.67	-13.00	20.67
1755.050	-35.03	-13.00	22.03

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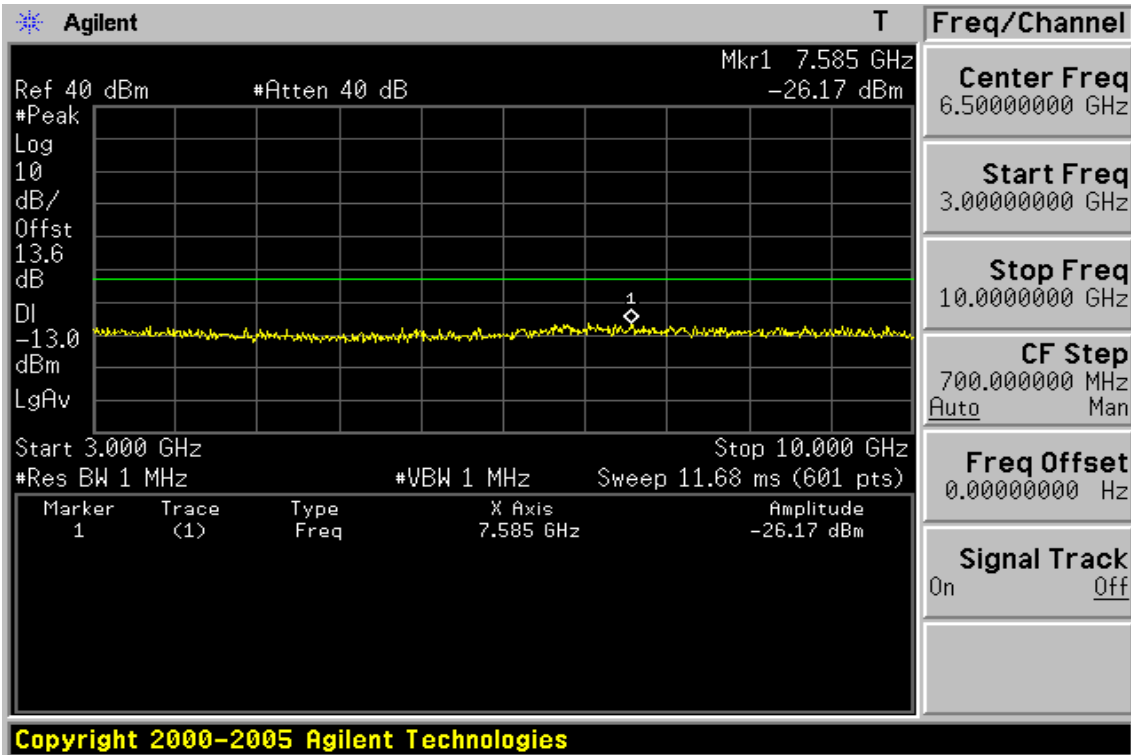
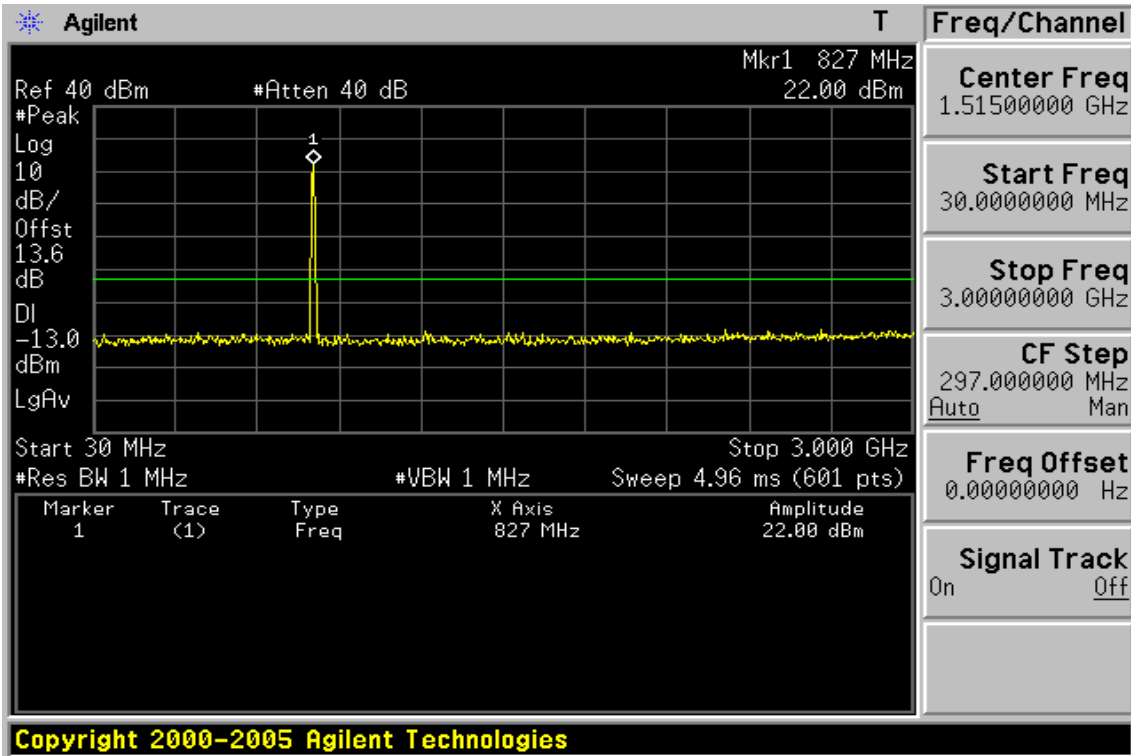
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Figure 9-71: Out of Band emission at antenna terminals – HSUPA V Channel Lowest



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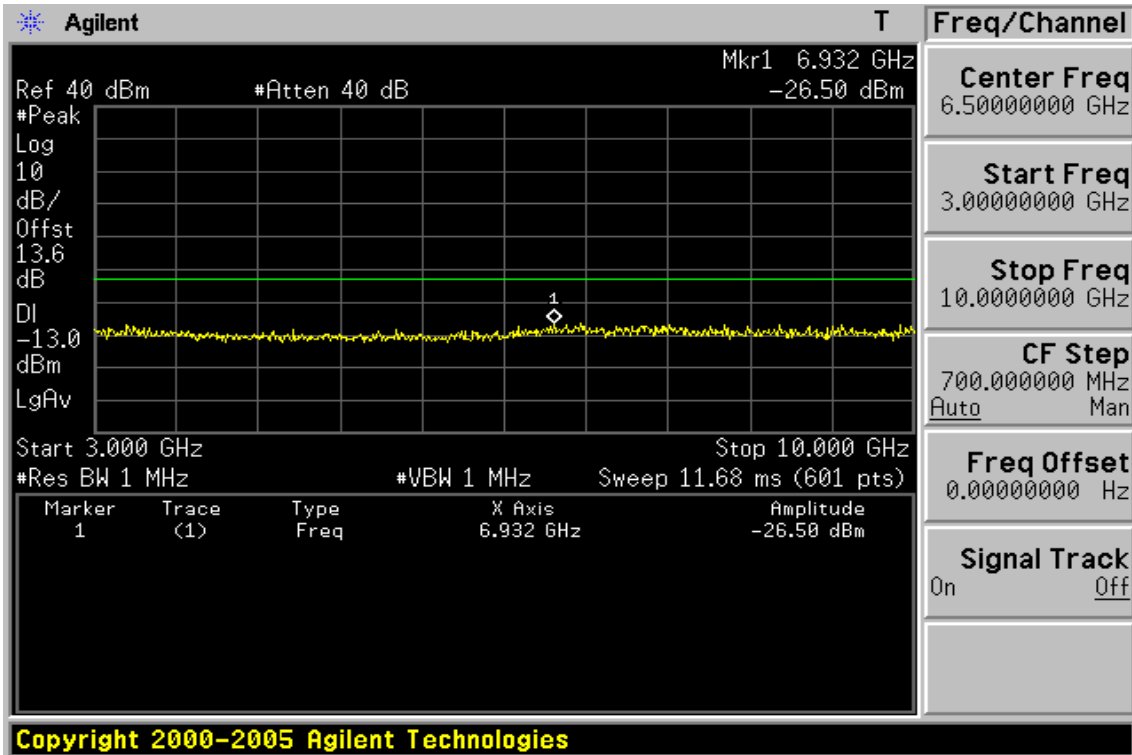
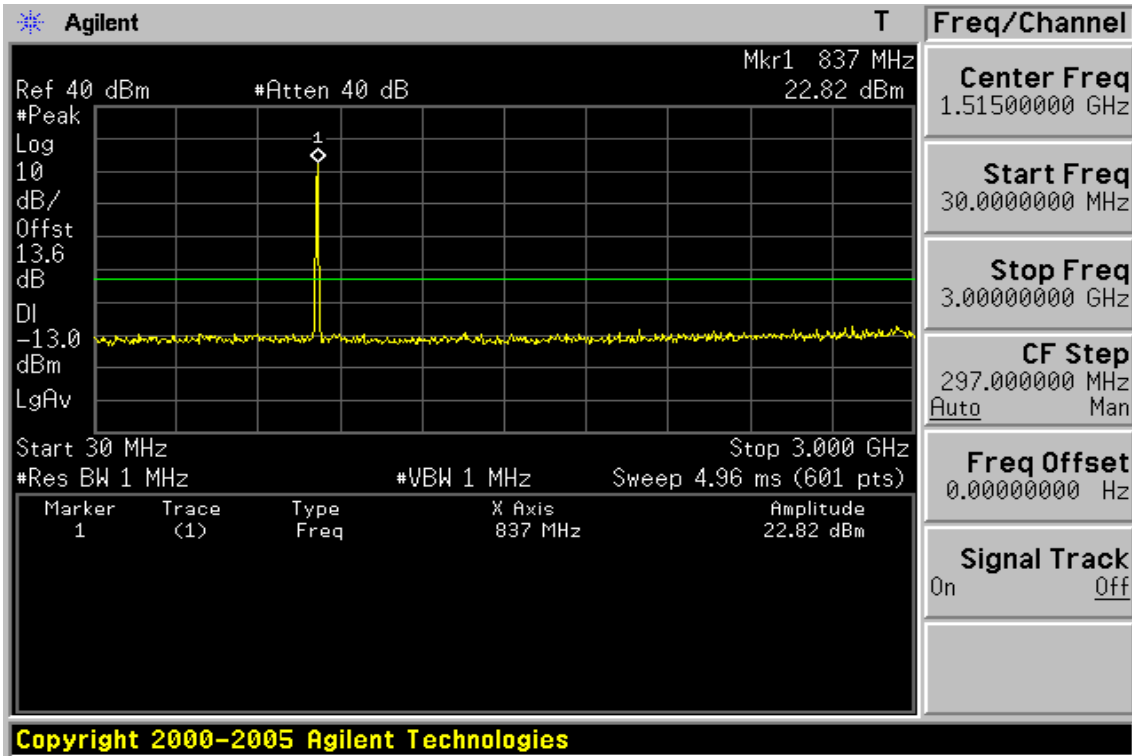
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Figure 9-72: Out of Band emission at antenna terminals – HSUPA V Channel Mid



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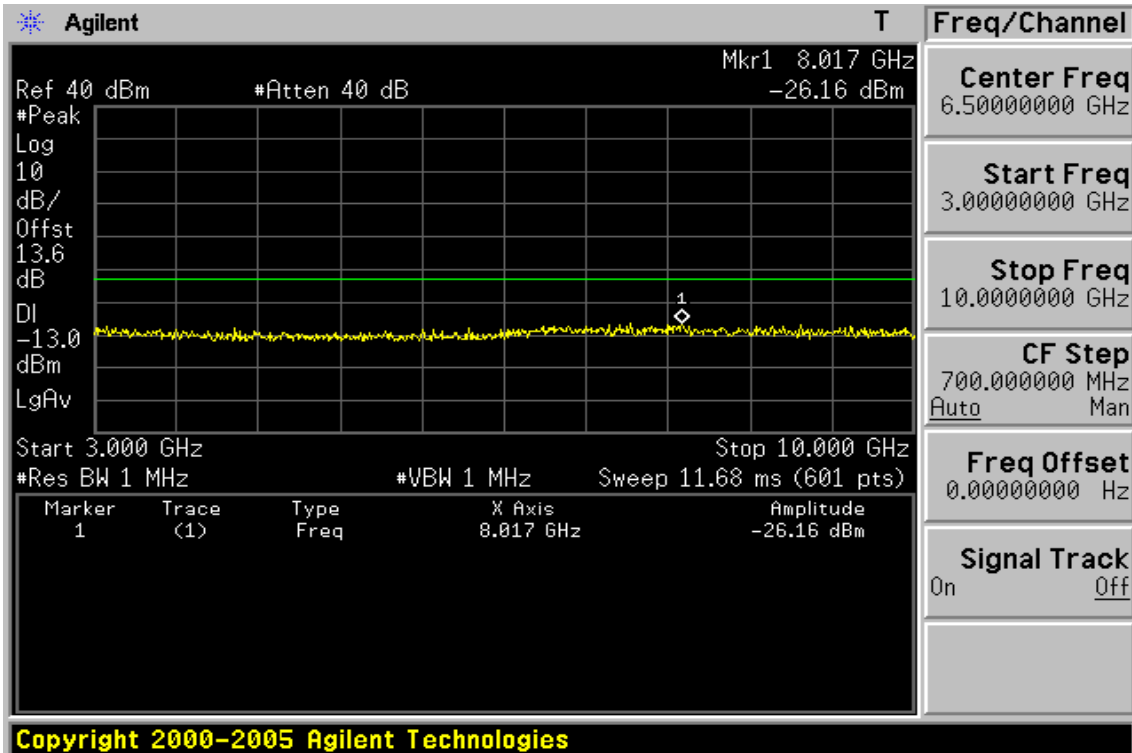
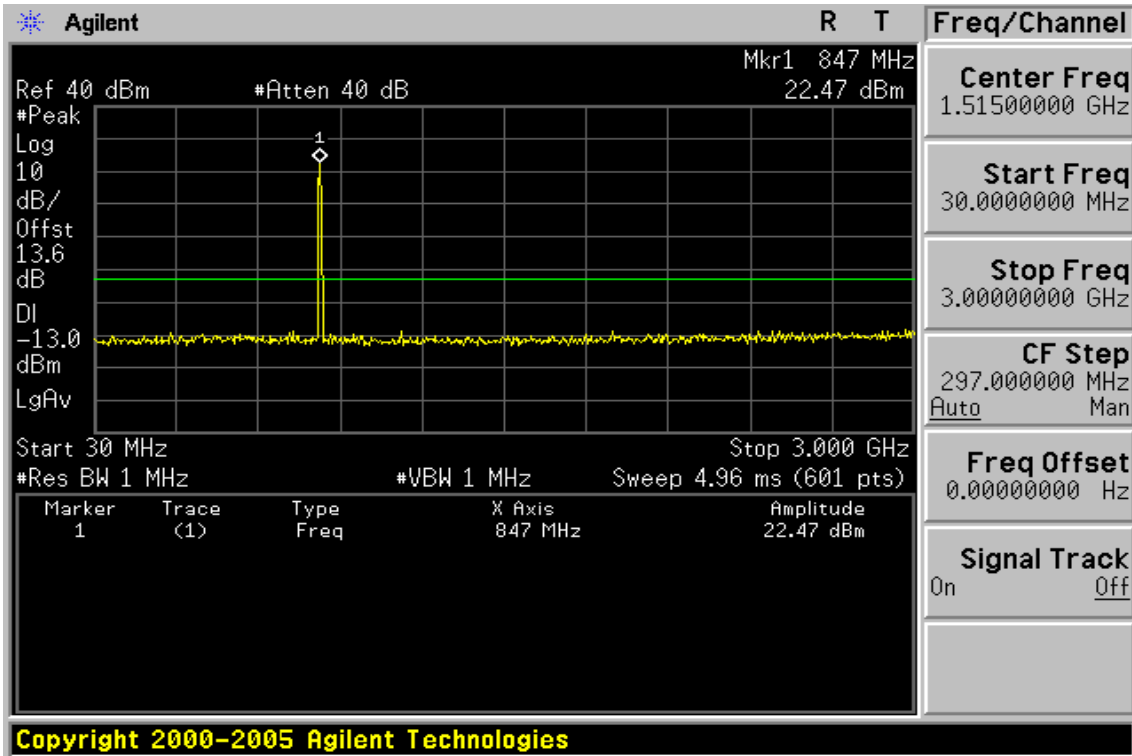
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Figure 9-73: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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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	---
7585.00	S	-26.17	-13.00	13.17
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	---
6932.00	S	-26.5	-13.00	13.50
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	---
7619.40	H	---	-13.00	---
8017.00	S	-26.16	-13.00	13.16
8466.00	H	---	-13.00	---

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

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Figure 9-74: Band edge emission at antenna terminals – HSUPA V Channel Lowest

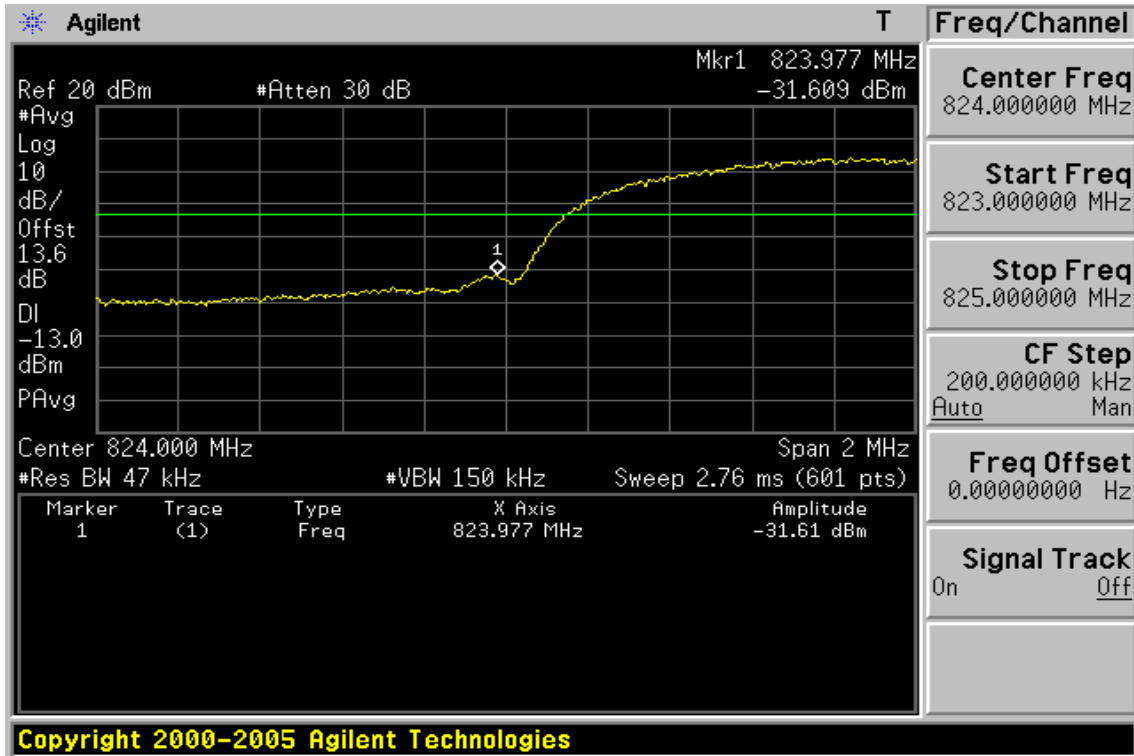


Figure 9-75: Band edge emission at antenna terminals – HSUPA V Channel Highest



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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
823.977	-31.61	-13.00	18.61
849.030	-34.07	-13.00	21.07

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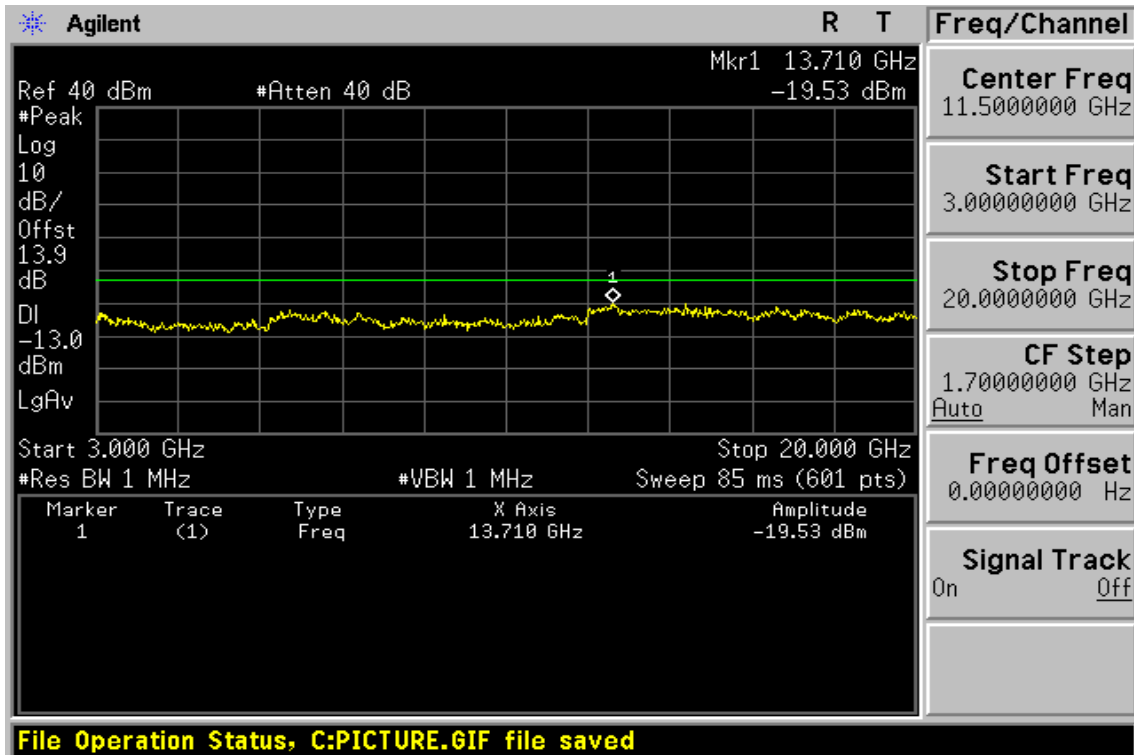
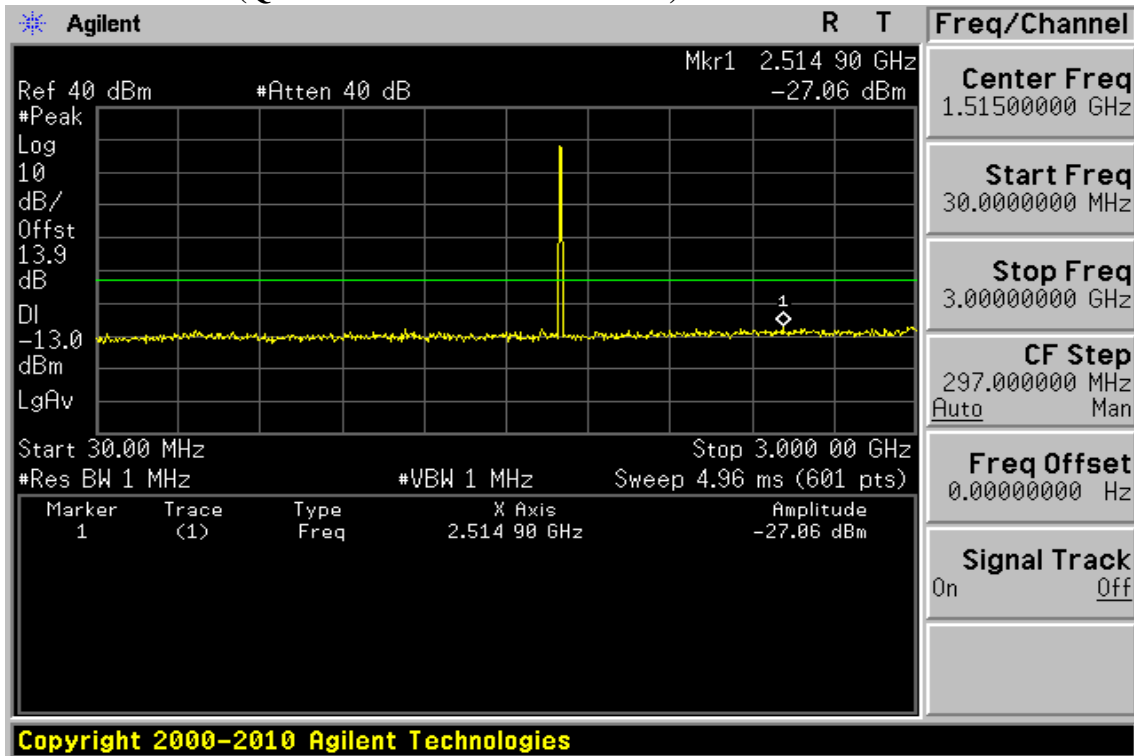
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Figure 9-76: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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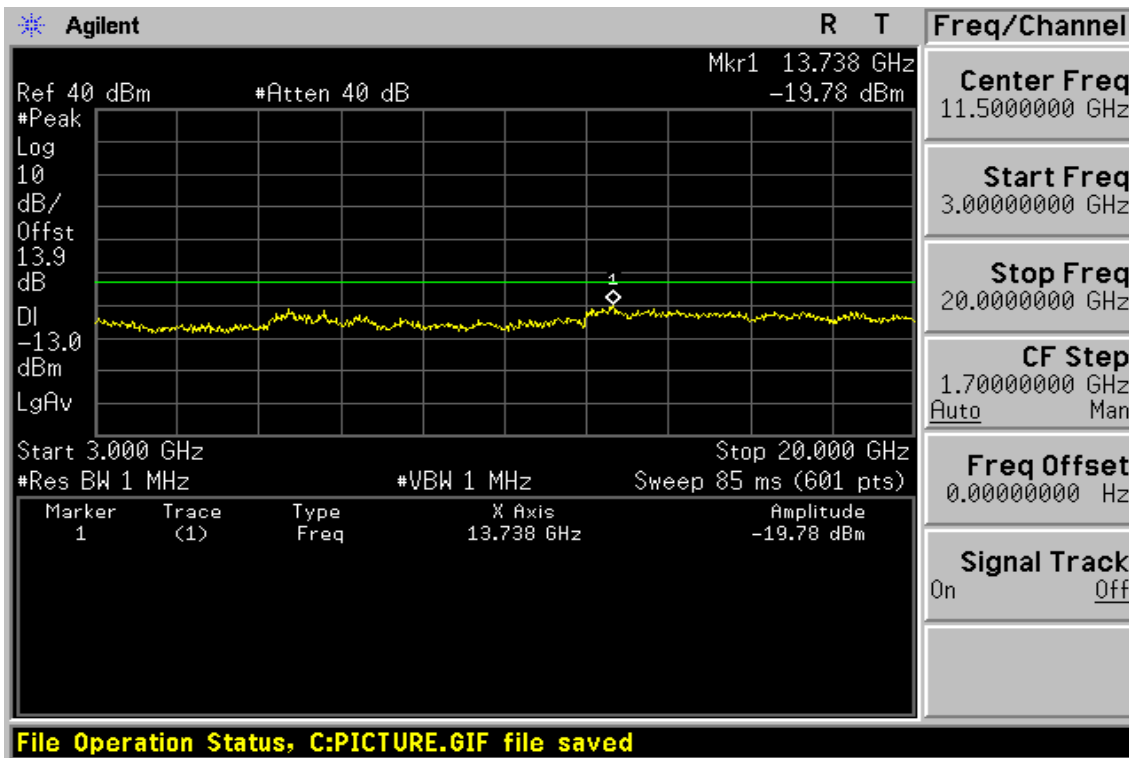
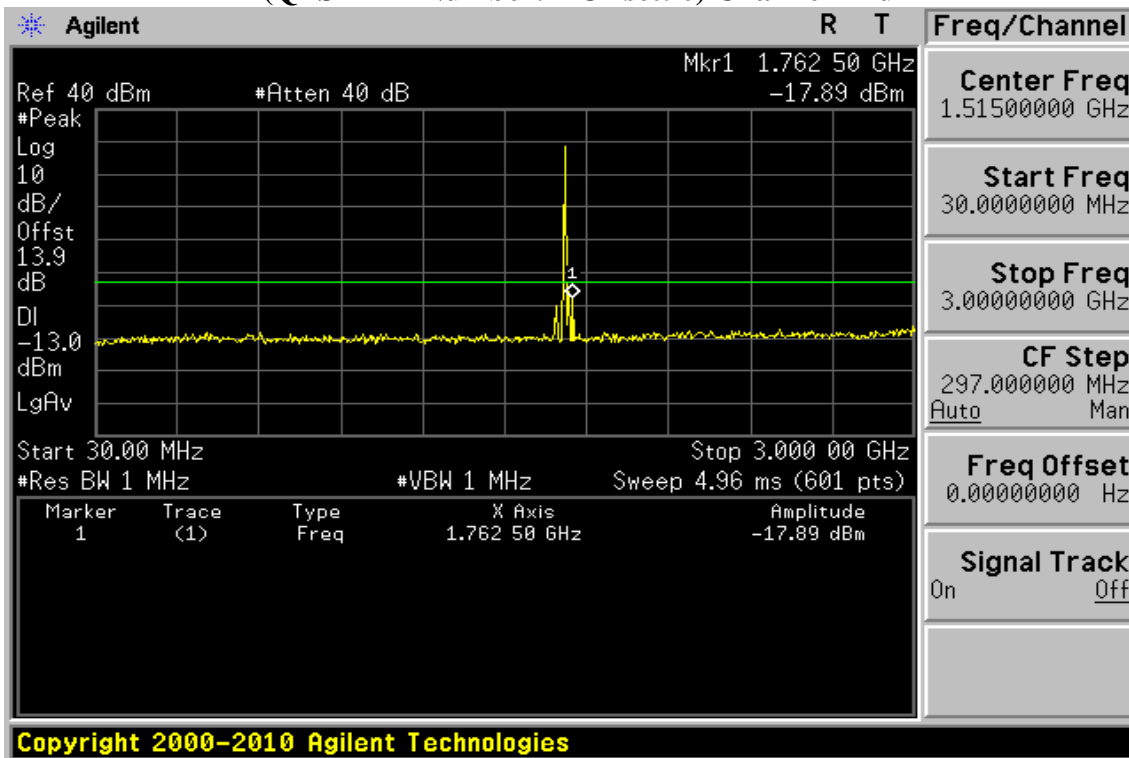
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Figure 9-77: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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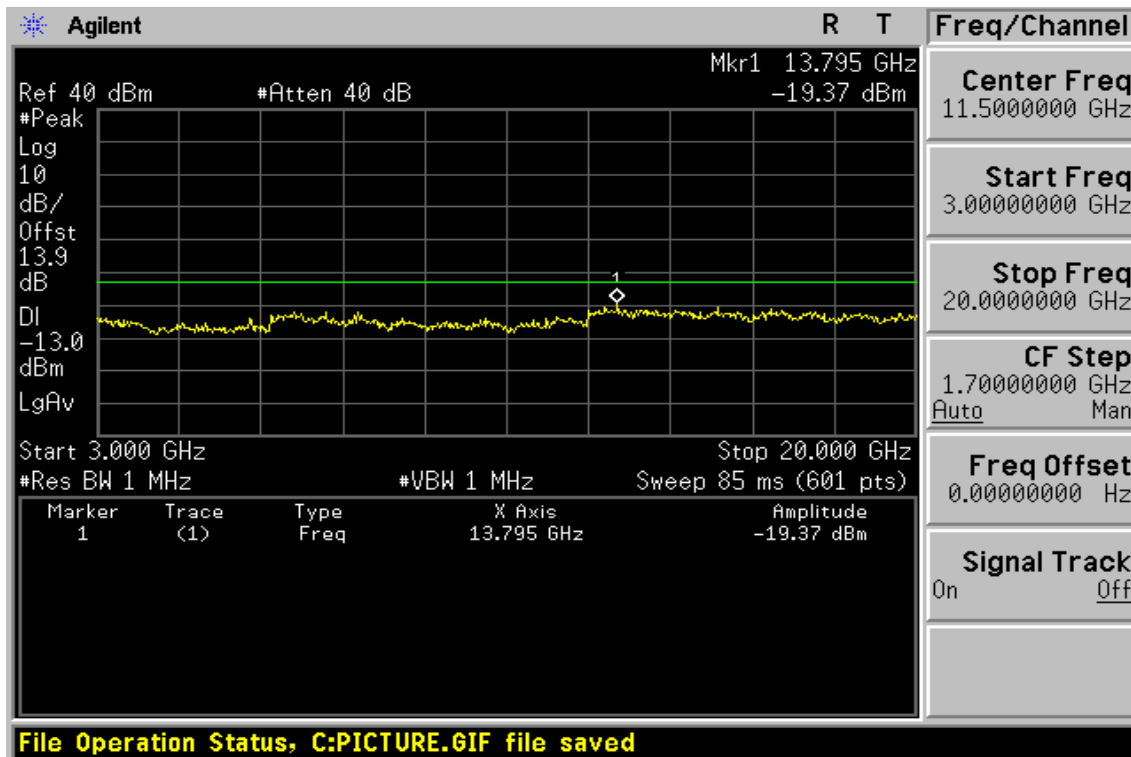
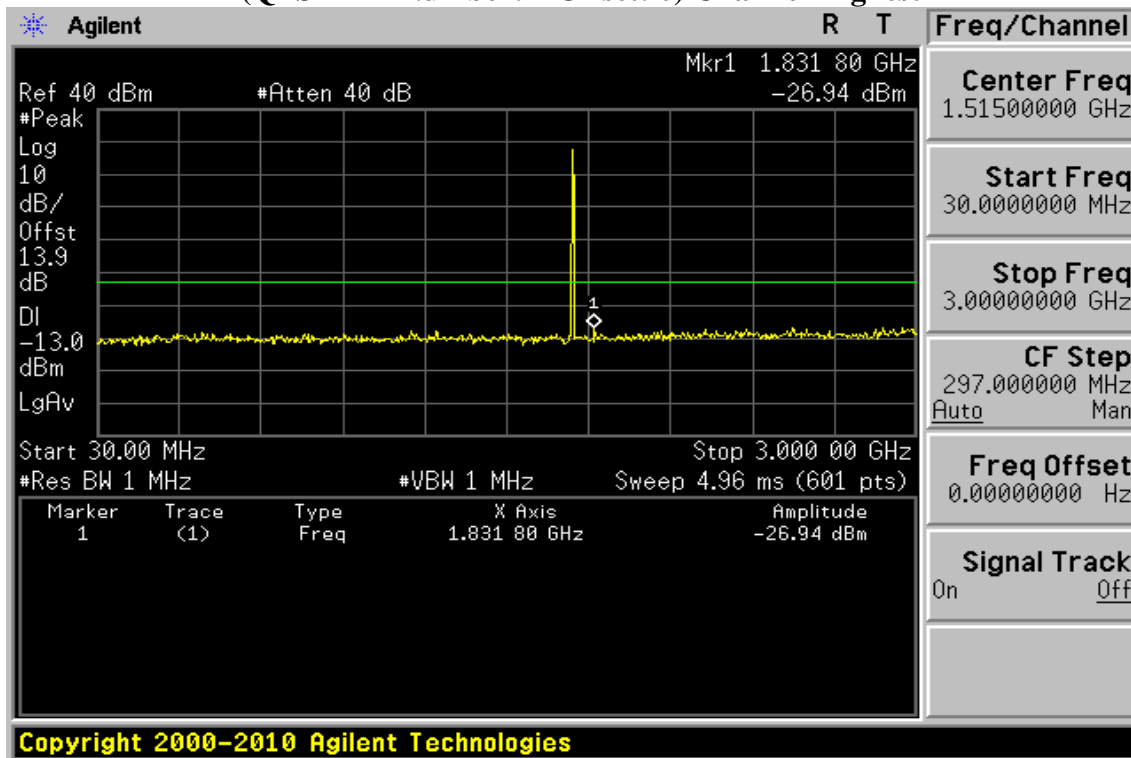
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Figure 9-78: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1710.7 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	---
3421.40	H	---	-13.00	---
5132.10	H	---	-13.00	---
6842.80	H	---	-13.00	---
8553.50	H	---	-13.00	---
10264.20	H	---	-13.00	---
11974.90	H	---	-13.00	---
13685.60	H	---	-13.00	---
13710.00	S	-19.53	-13.00	6.53
15396.30	H	---	-13.00	---
17107.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13738.00	S	-19.78	-13.00	6.78
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1754.3MHz 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	---
3508.60	H	---	-13.00	---
5262.90	H	---	-13.00	---
7017.20	H	---	-13.00	---
8771.50	H	---	-13.00	---
10525.80	H	---	-13.00	---
12280.10	H	---	-13.00	---
13795.00	S	-19.37	-13.00	6.37
14034.40	H	---	-13.00	---
15788.70	H	---	-13.00	---
17543.00	H	---	-13.00	---

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

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Figure 9-79: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

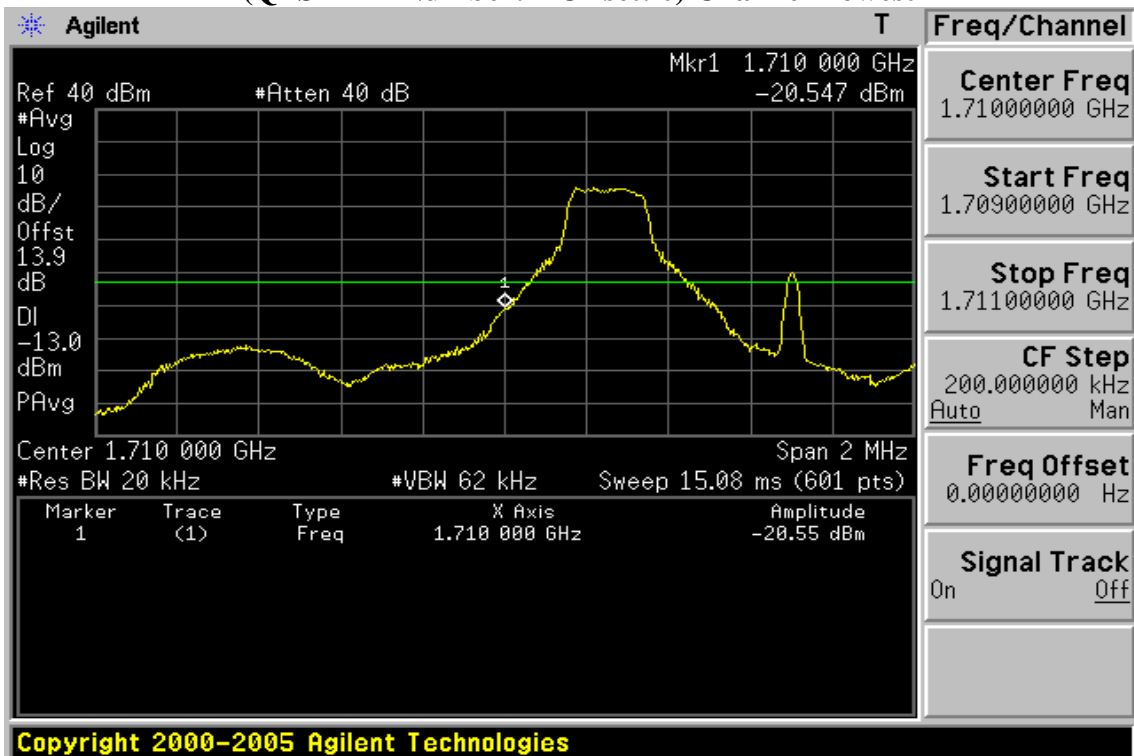
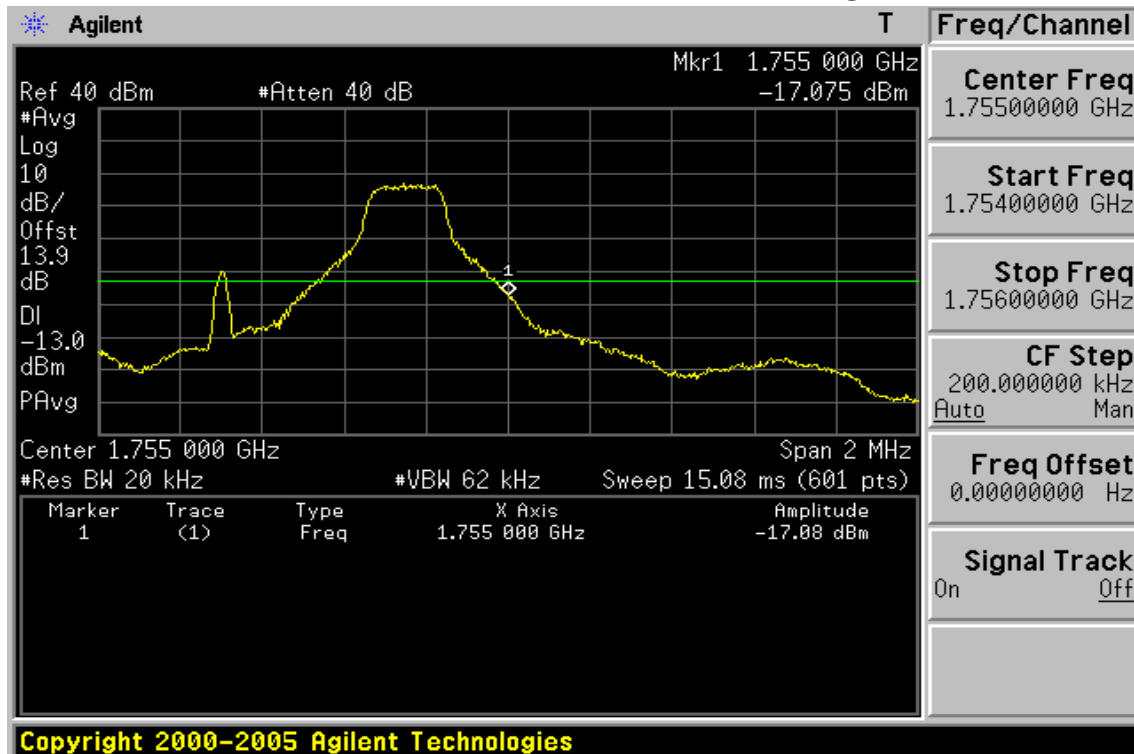


Figure 9-80: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Highest



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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4

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

Test Mode 1.4MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-20.55	-13.00	7.55
1755.000	-17.08	-13.00	4.08

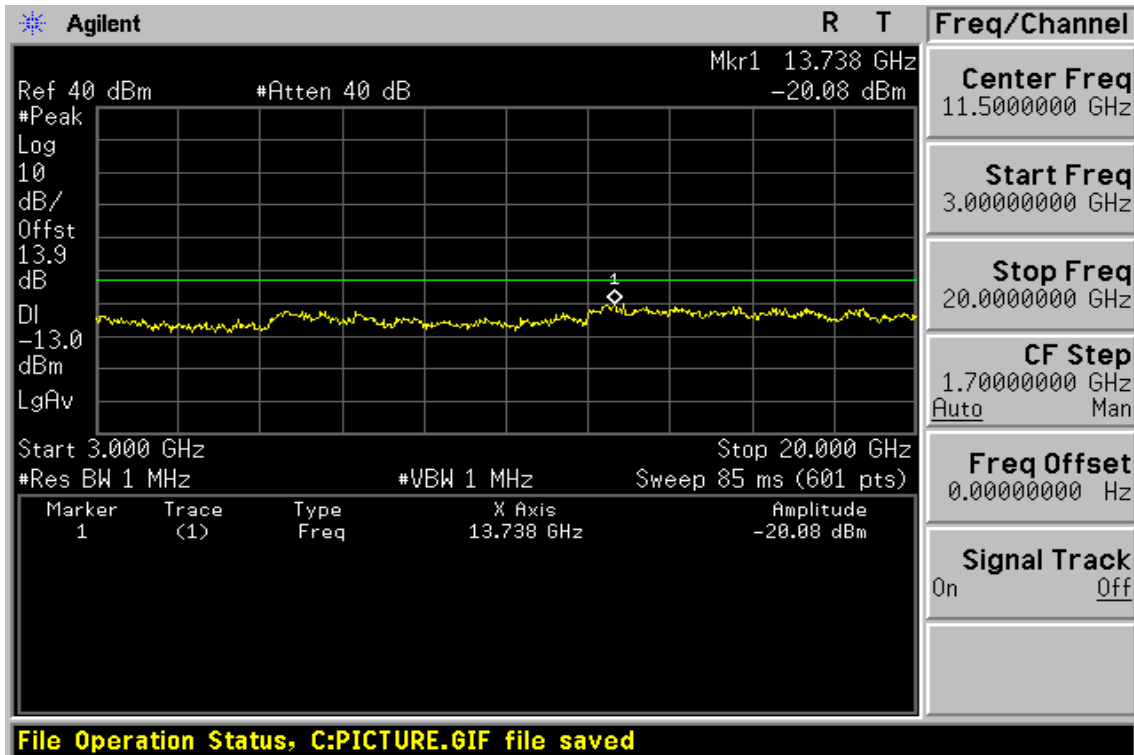
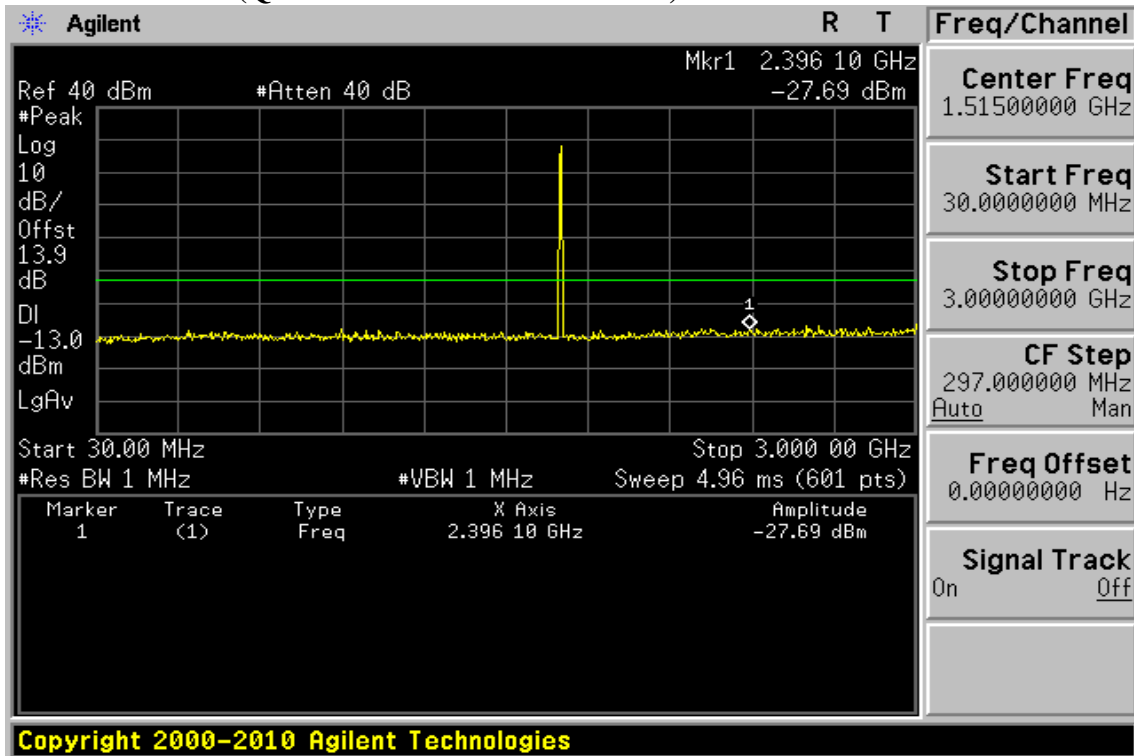
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Figure 9-81: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Lowest



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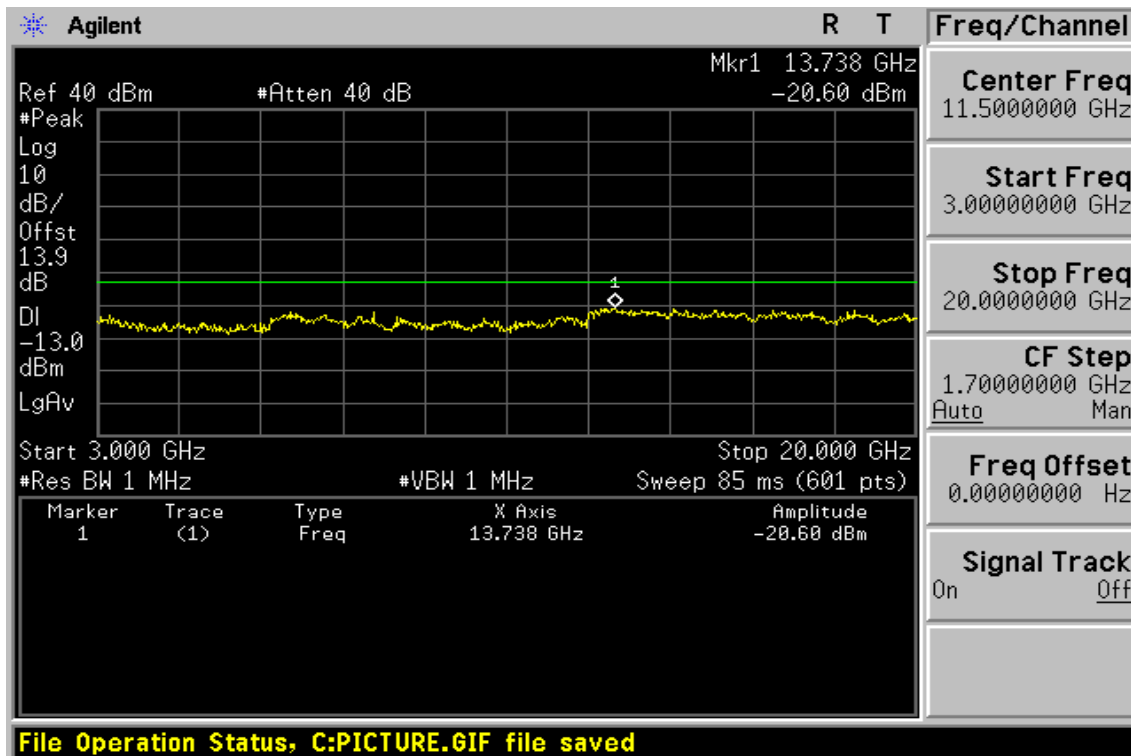
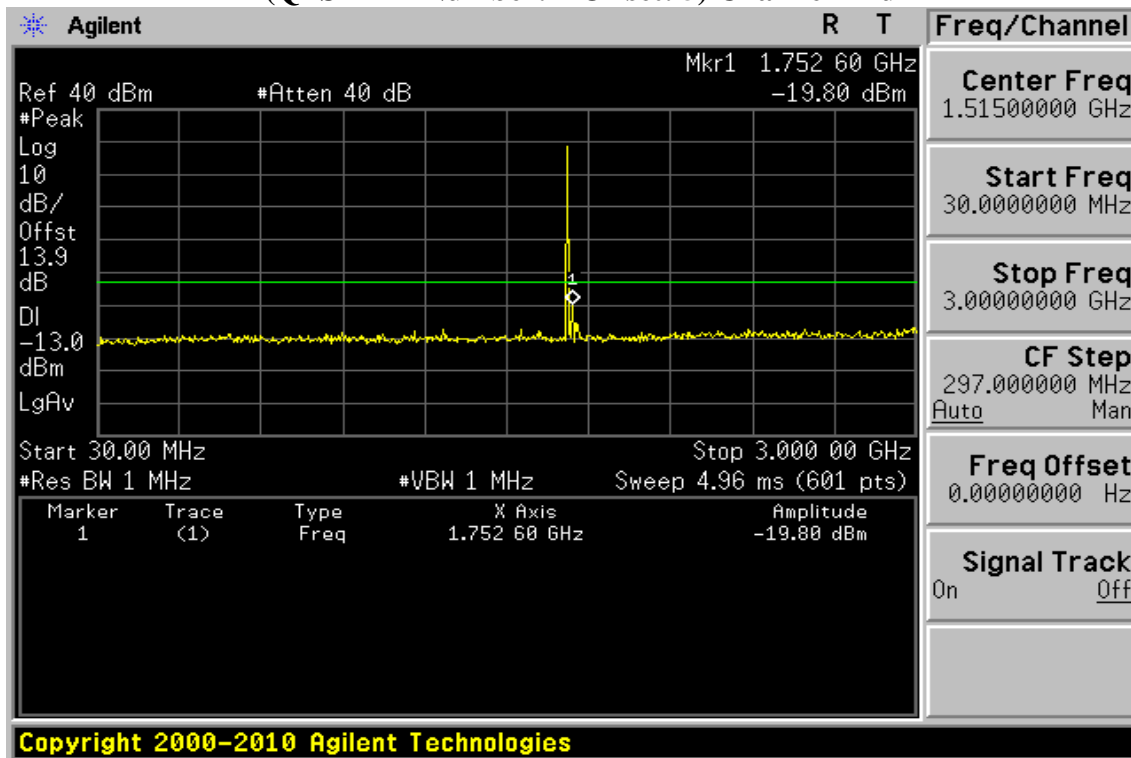
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Figure 9-82: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Mid



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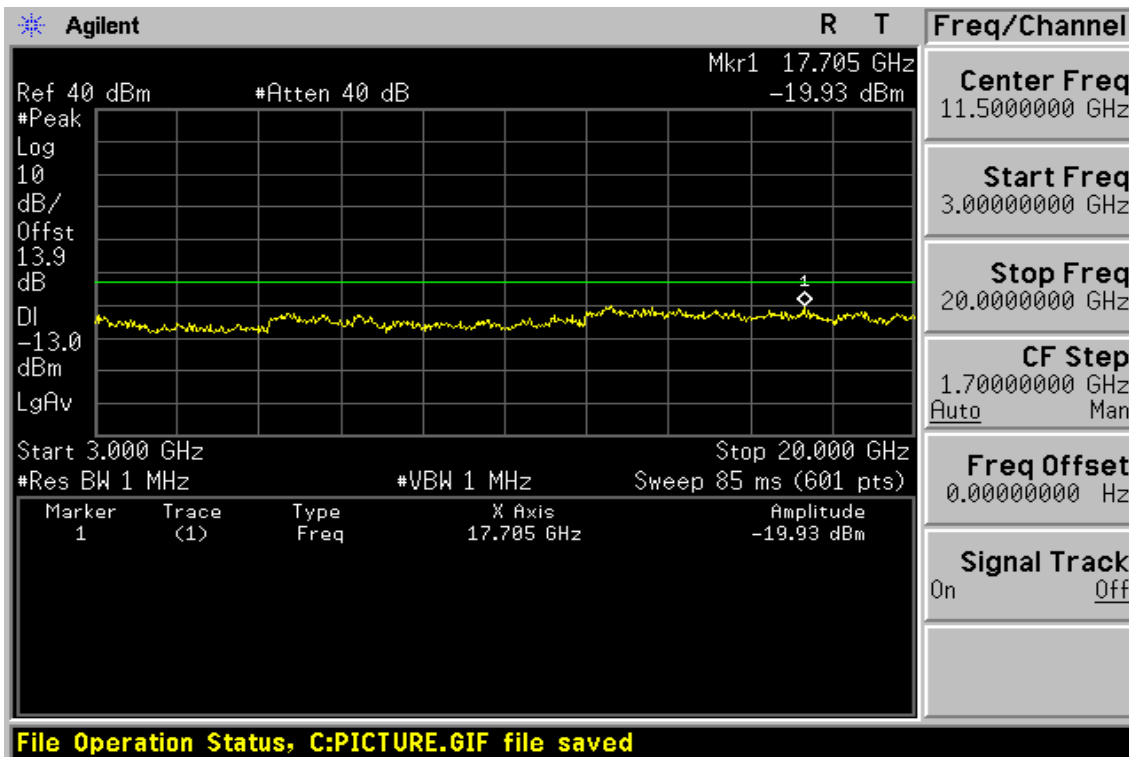
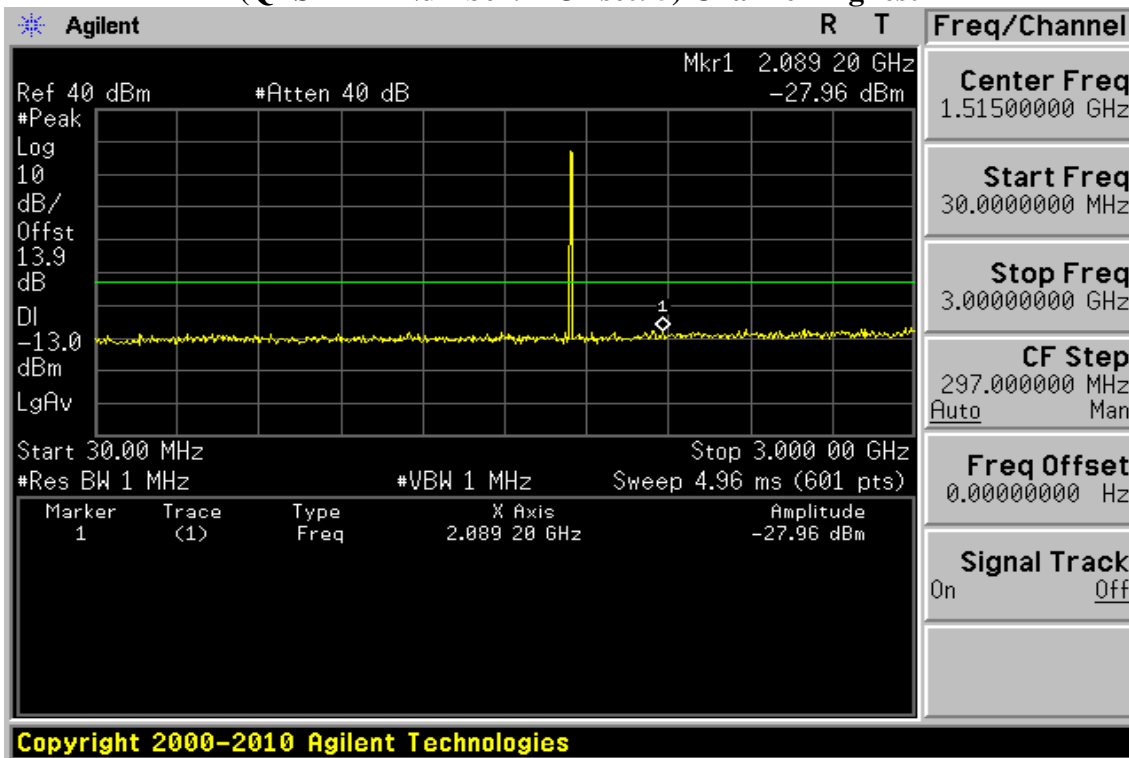
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Figure 9-83: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Highest



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Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 5)

Fundamental Frequency :1710.7 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	---
3421.40	H	---	-13.00	---
5132.10	H	---	-13.00	---
6842.80	H	---	-13.00	---
8553.50	H	---	-13.00	---
10264.20	H	---	-13.00	---
11974.90	H	---	-13.00	---
13685.60	H	---	-13.00	---
13738.00	S	-20.08	-13.00	7.08
15396.30	H	---	-13.00	---
17107.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13738.00	S	-20.60	-13.00	7.60
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1754.3MHz 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	---
3508.60	H	---	-13.00	---
5262.90	H	---	-13.00	---
7017.20	H	---	-13.00	---
8771.50	H	---	-13.00	---
10525.80	H	---	-13.00	---
12280.10	H	---	-13.00	---
14034.40	H	---	-13.00	---
15788.70	H	---	-13.00	---
17543.00	H	---	-13.00	---
17705.00	S	-19.93	-13.00	6.93

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 –1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Lowest

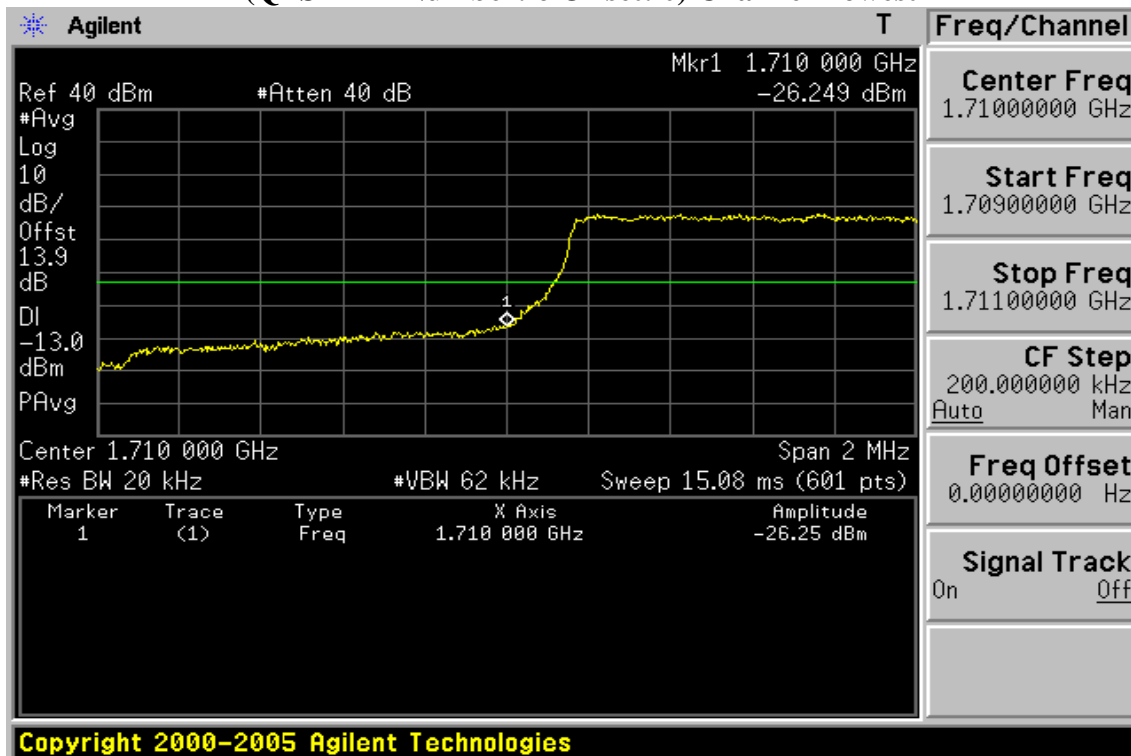
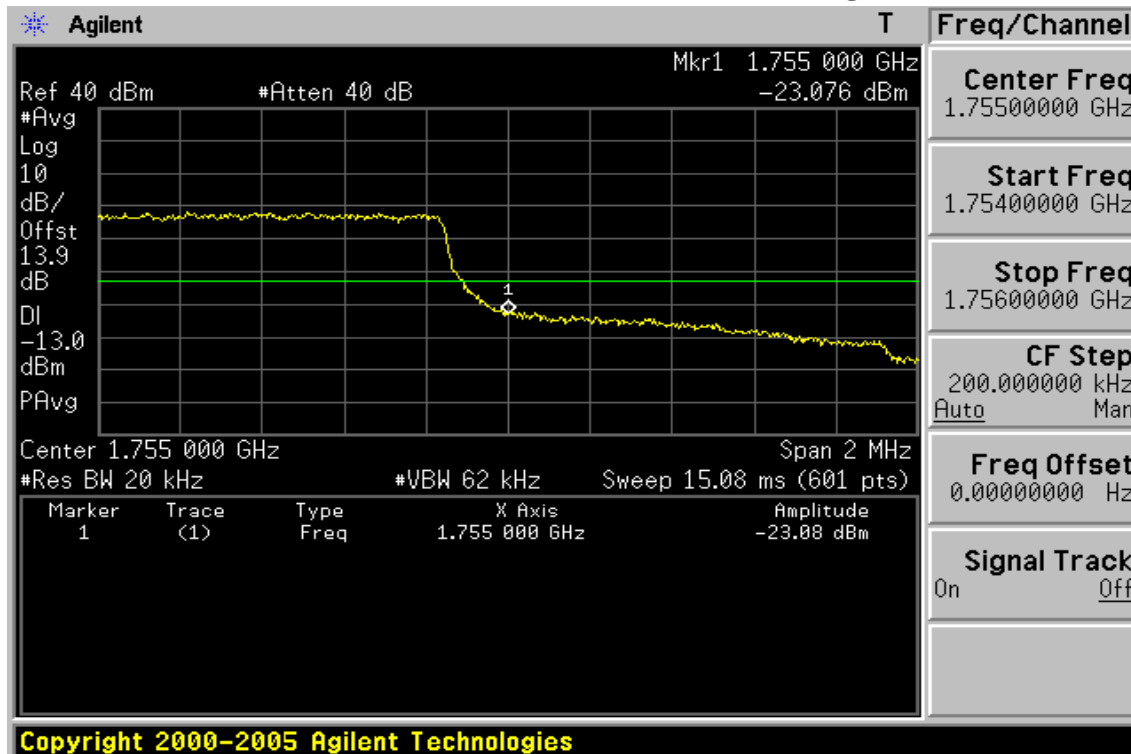


Figure 9-85: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4

(QPSK RB Number: 6 Offset: 0)

Test Mode 1.4MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-26.25	-13.00	13.25
1755.000	-23.08	-13.00	10.08

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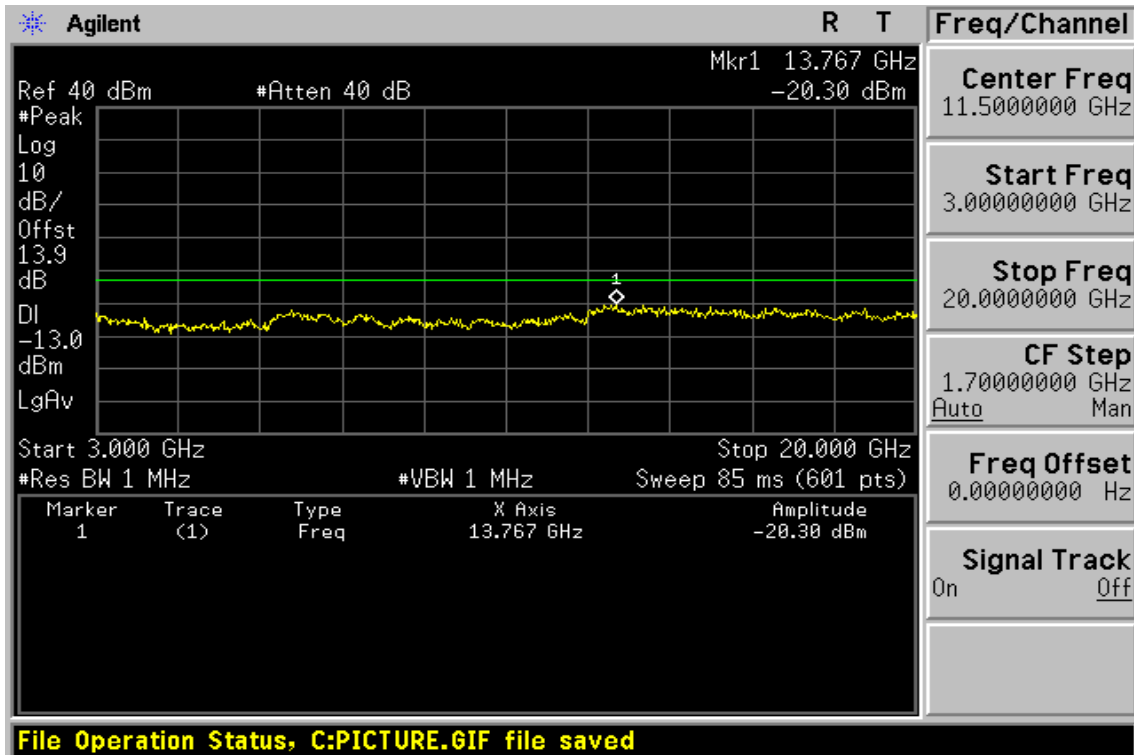
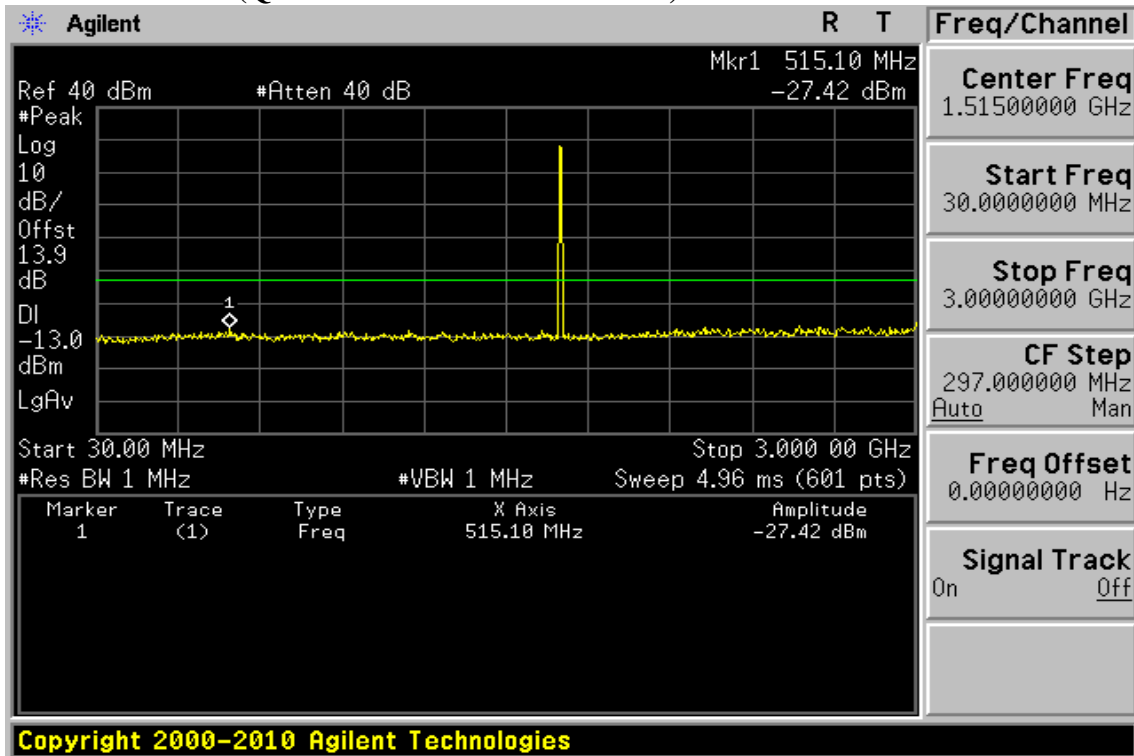
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Figure 9-86: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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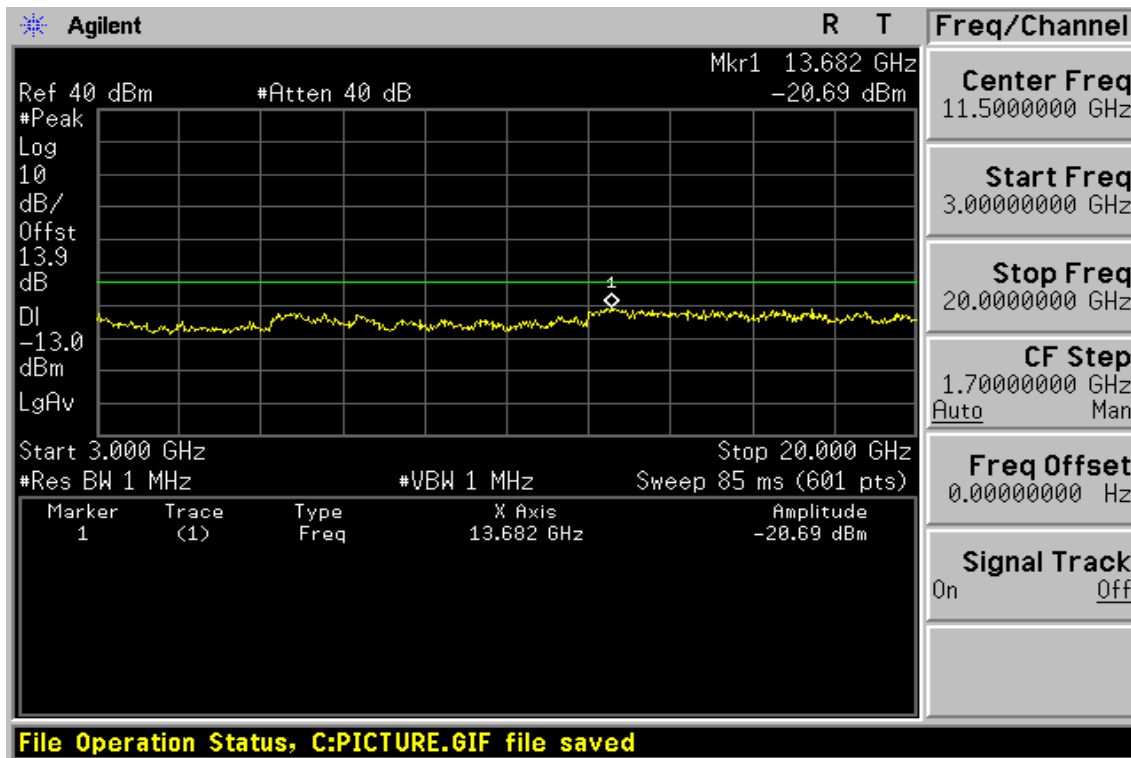
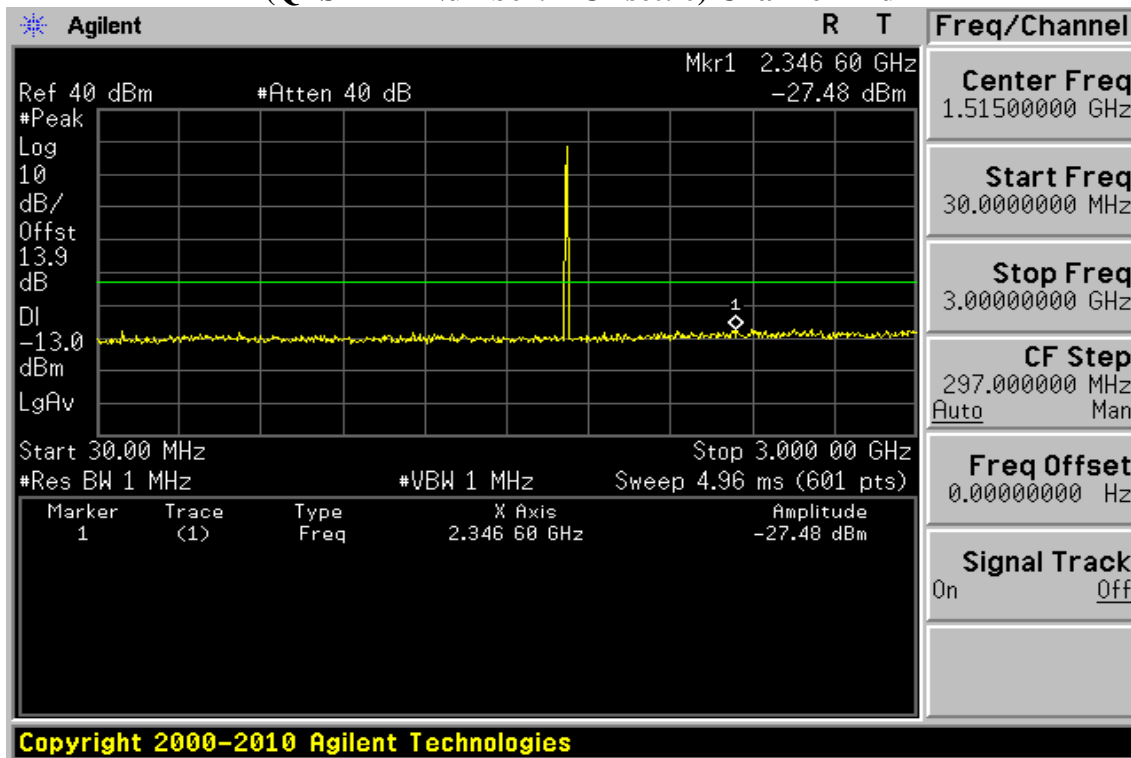
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Figure 9-87: Out of Band emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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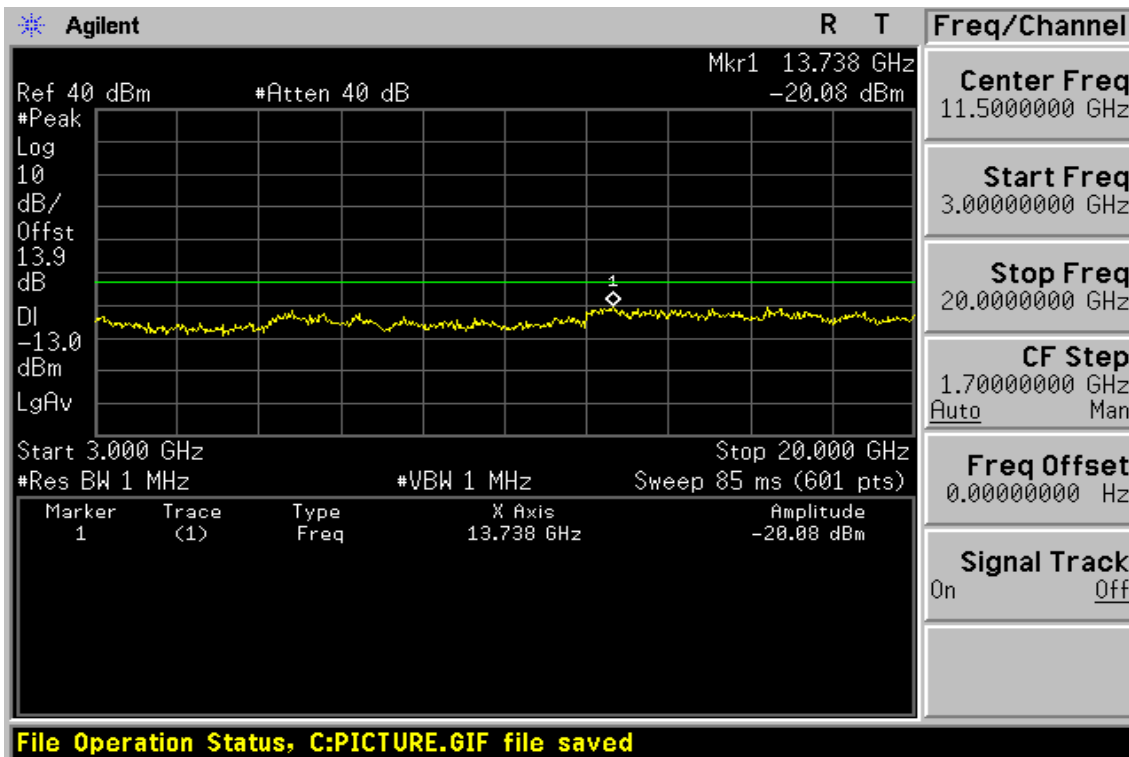
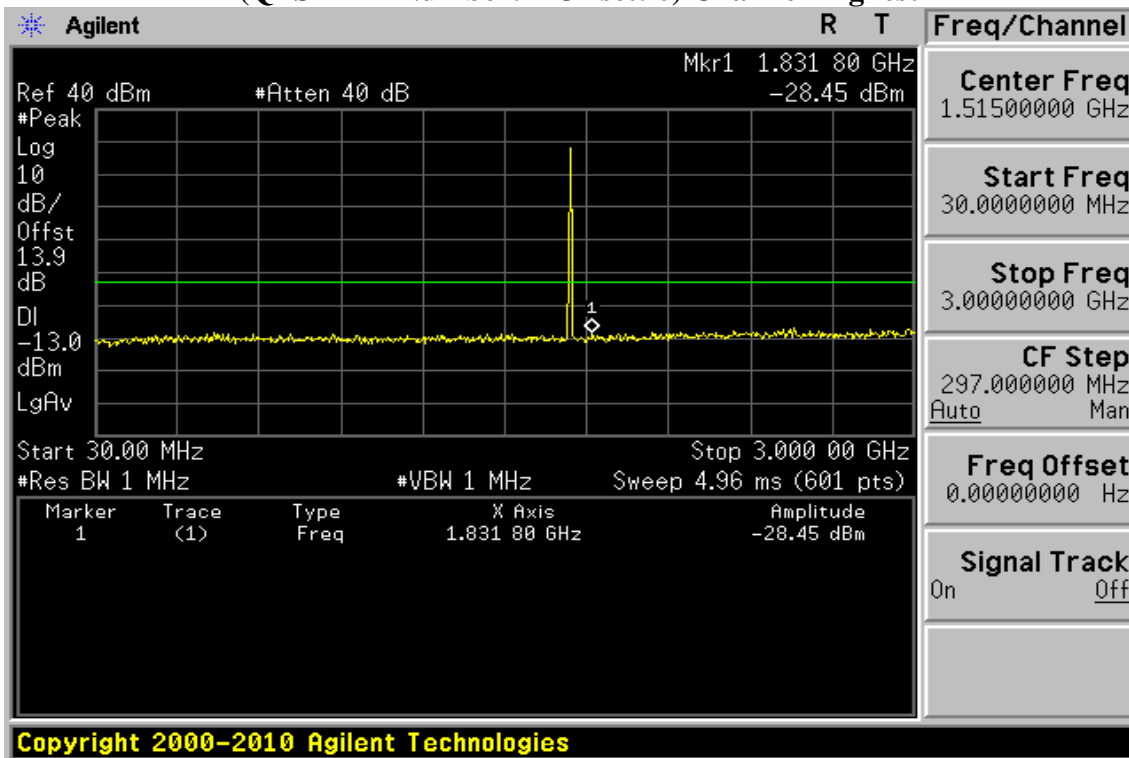
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Figure 9-88: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –3MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1711.5 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	---
3423.00	H	---	-13.00	---
5134.50	H	---	-13.00	---
6846.00	H	---	-13.00	---
8557.50	H	---	-13.00	---
10269.00	H	---	-13.00	---
11980.50	H	---	-13.00	---
13692.00	H	---	-13.00	---
13767.00	S	-20.3	-13.00	7.30
15403.50	H	---	-13.00	---
17115.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13682.00	S	-20.69	-13.00	7.69
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1753.5MHz 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	---
3507.00	H	---	-13.00	---
5260.50	H	---	-13.00	---
7014.00	H	---	-13.00	---
8767.50	H	---	-13.00	---
10521.00	H	---	-13.00	---
12274.50	H	---	-13.00	---
13738.00	S	-20.08	-13.00	7.08
14028.00	H	---	-13.00	---
15781.50	H	---	-13.00	---
17535.00	H	---	-13.00	---

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

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Figure 9-89: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

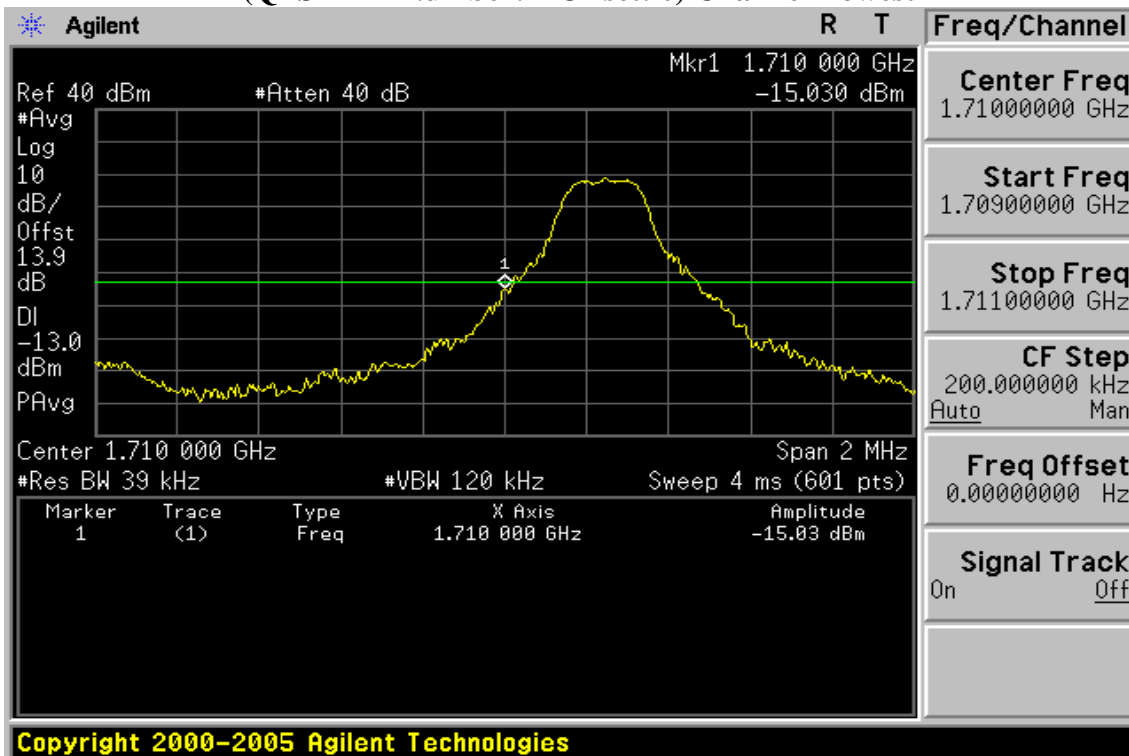
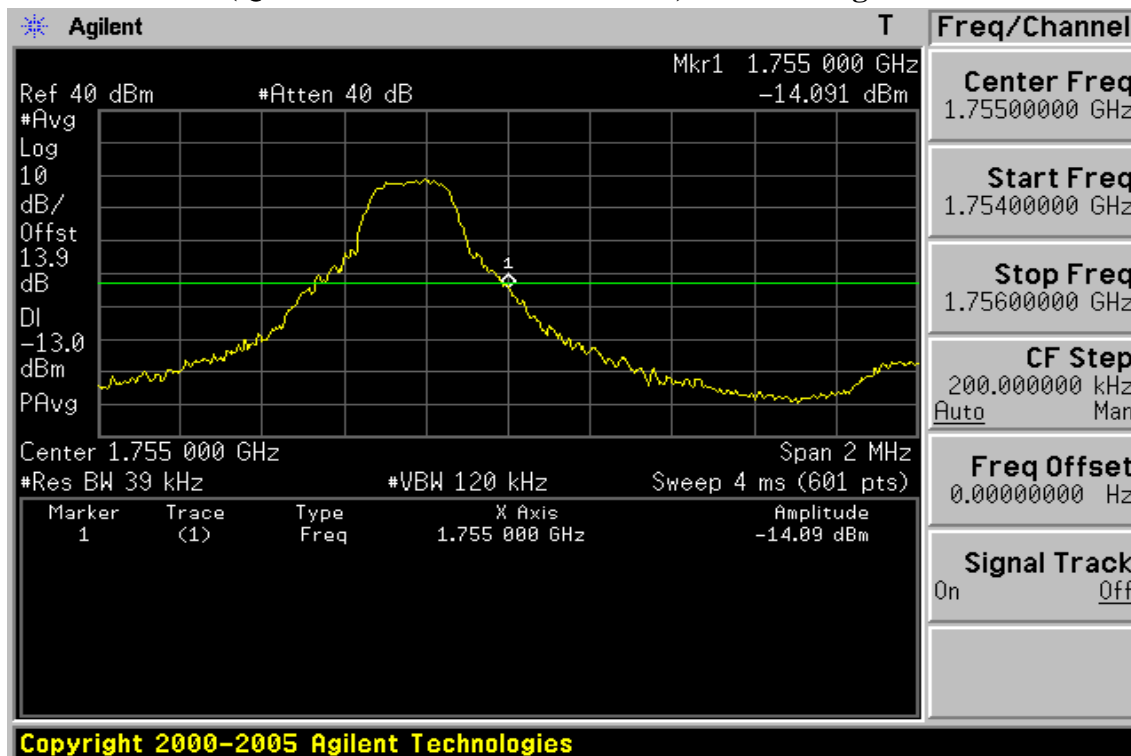


Figure 9-90: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 4

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

Test Mode 3MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-15.03	-13.00	2.03
1755.000	-14.09	-13.00	1.09

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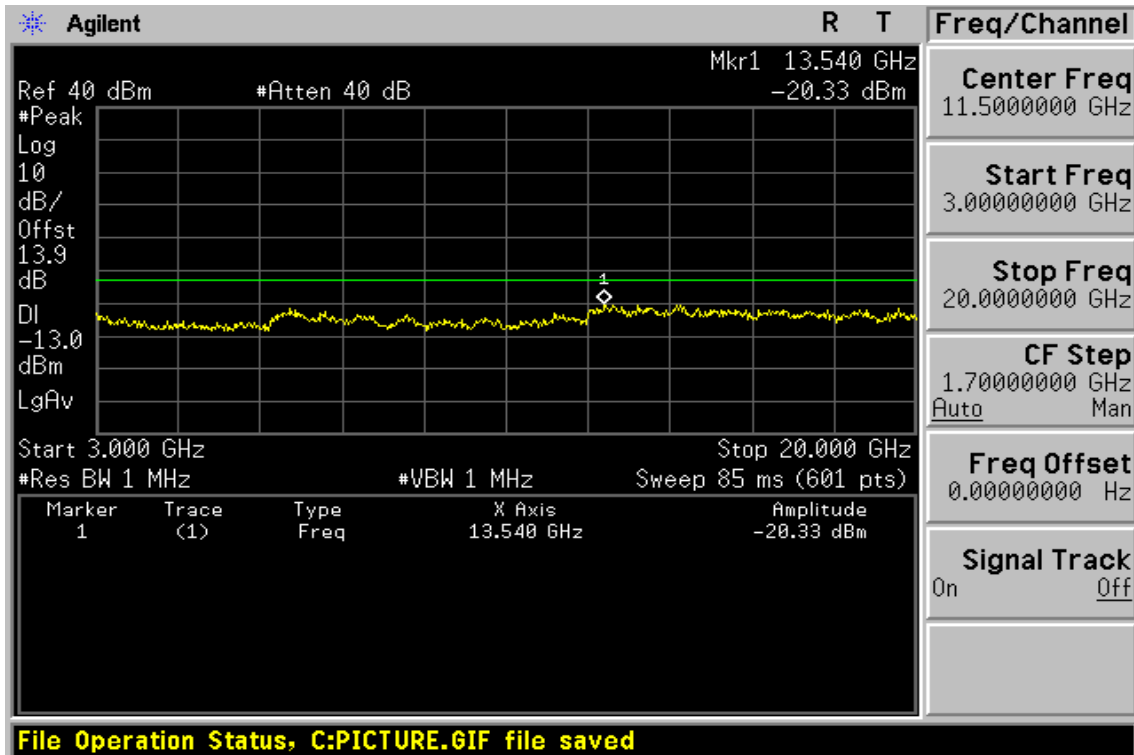
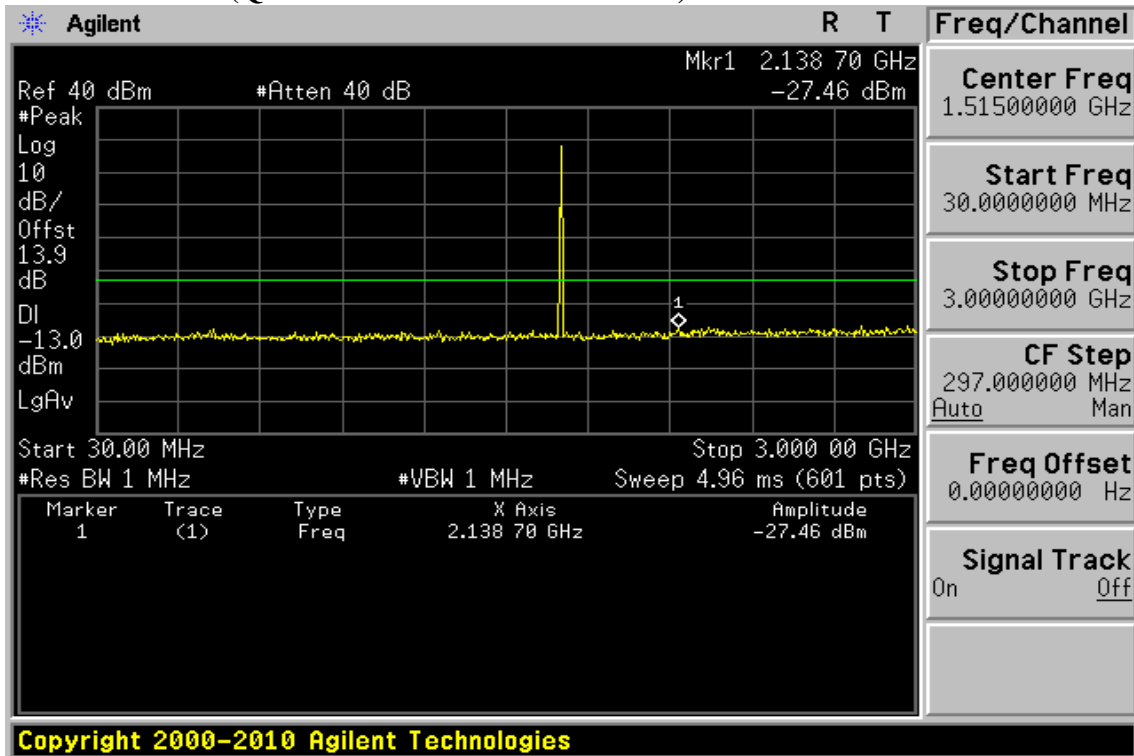
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Figure 9-91: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Lowest



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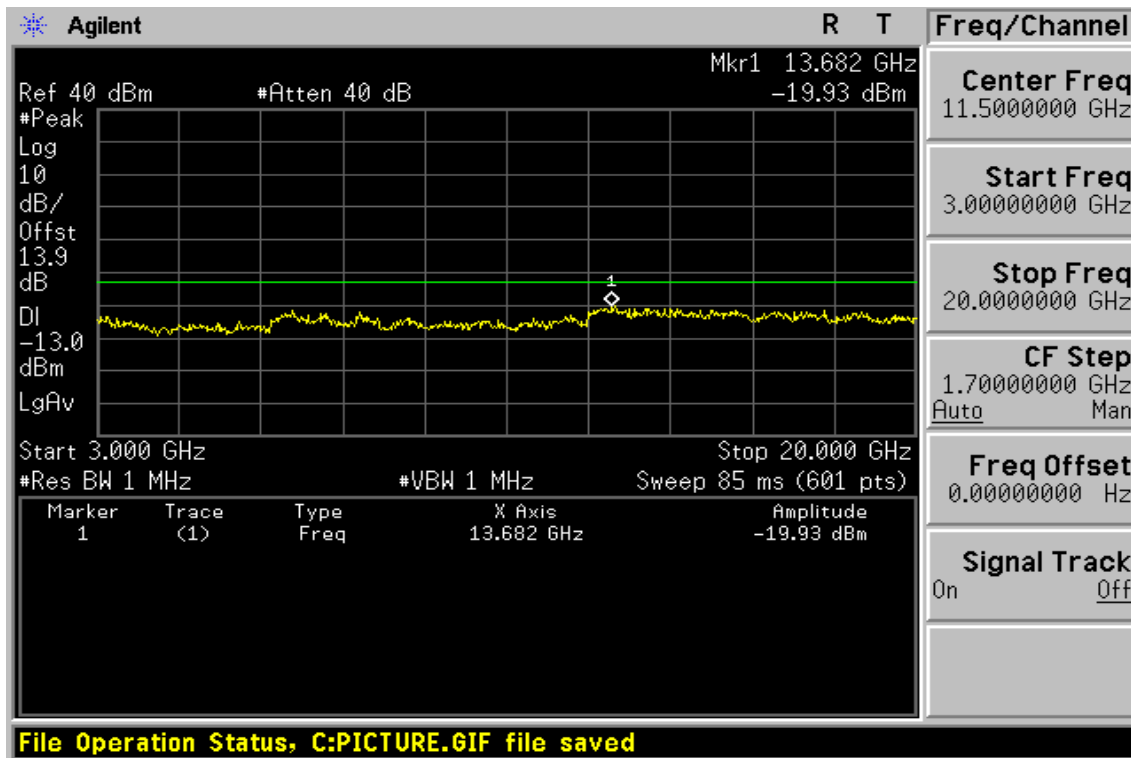
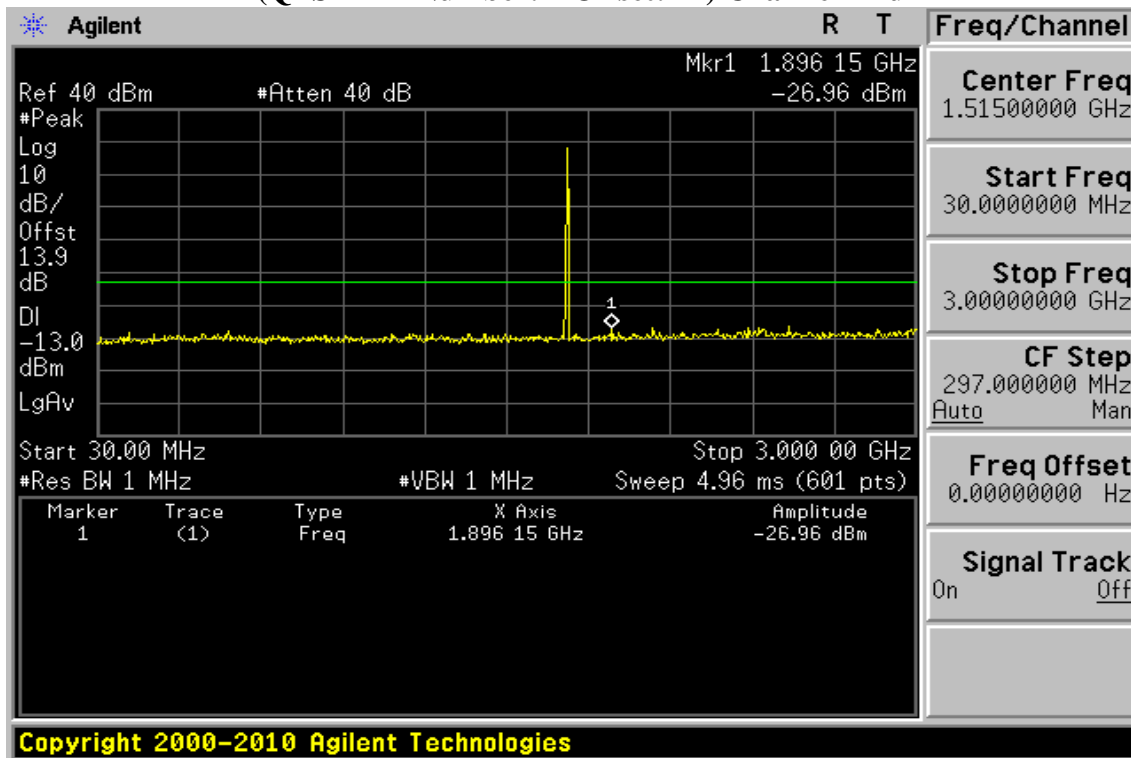
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Figure 9-92: Out of Band emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Mid



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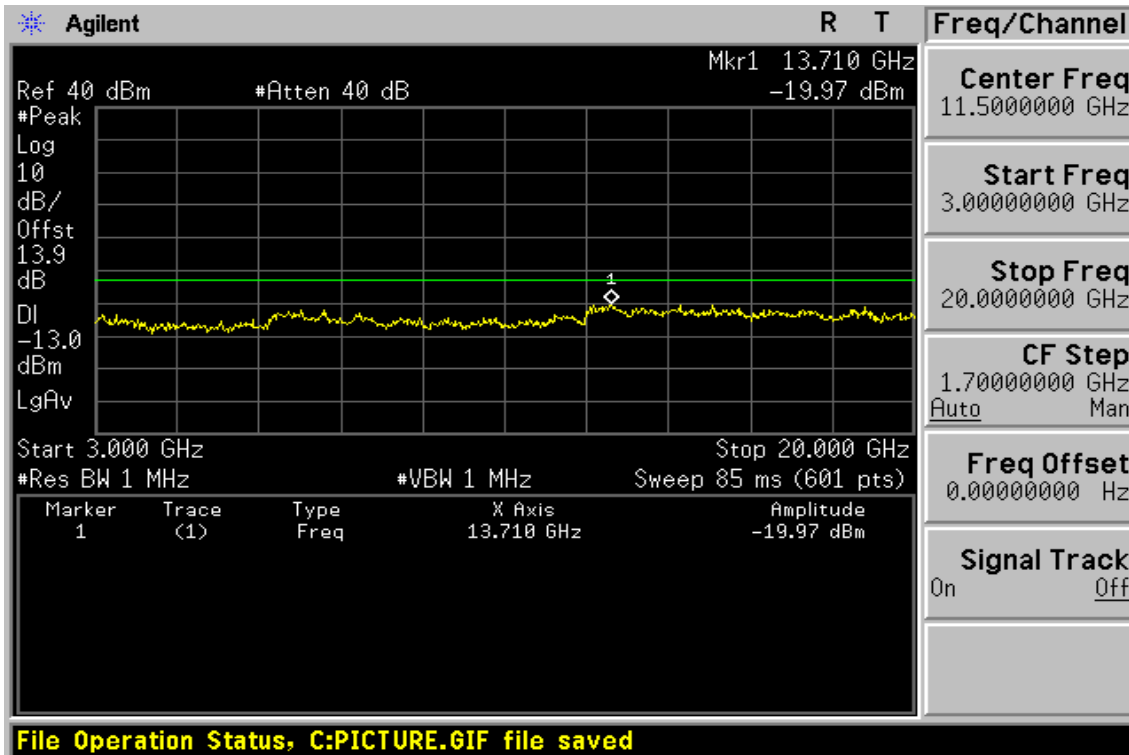
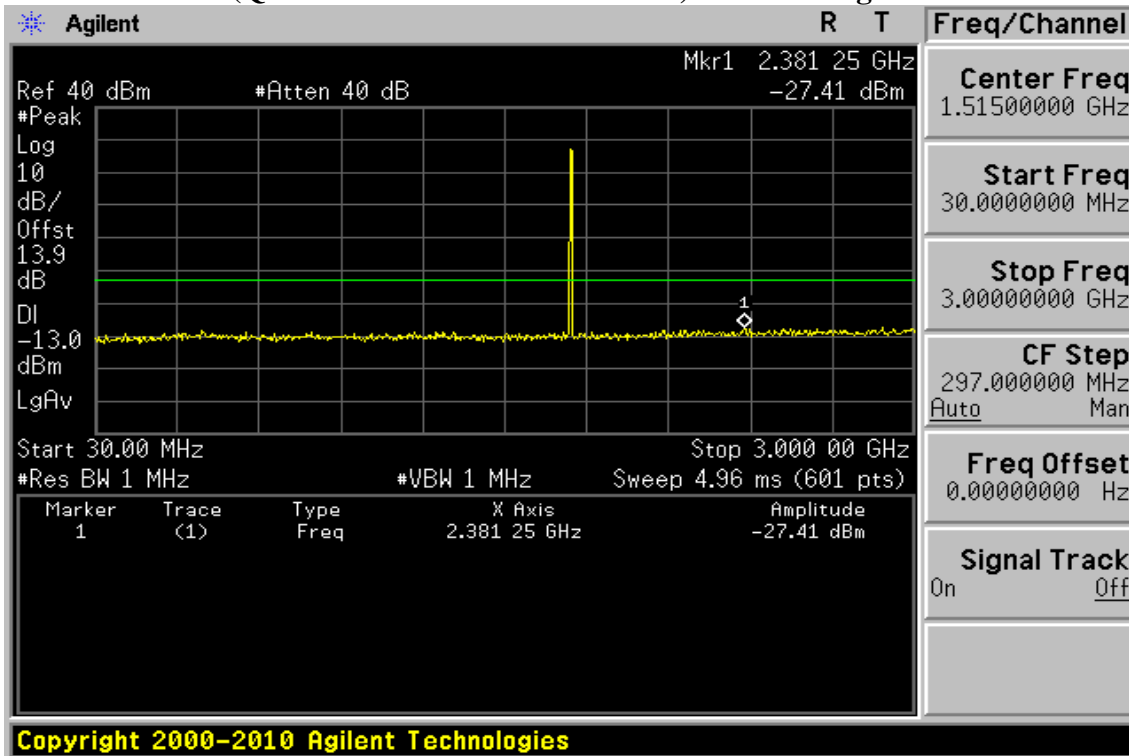
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Figure 9-93: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



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Out of Band emission at antenna terminals –3MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 14)

Fundamental Frequency :1711.5 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	---
3423.00	H	---	-13.00	---
5134.50	H	---	-13.00	---
6846.00	H	---	-13.00	---
8557.50	H	---	-13.00	---
10269.00	H	---	-13.00	---
11980.50	H	---	-13.00	---
13540.00	S	-20.33	-13.00	7.33
13692.00	H	---	-13.00	---
15403.50	H	---	-13.00	---
17115.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13682.00	S	-19.93	-13.00	6.93
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1753.5MHz 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	---
3507.00	H	---	-13.00	---
5260.50	H	---	-13.00	---
7014.00	H	---	-13.00	---
8767.50	H	---	-13.00	---
10521.00	H	---	-13.00	---
12274.50	H	---	-13.00	---
13710.00	S	-19.97	-13.00	6.97
14028.00	H	---	-13.00	---
15781.50	H	---	-13.00	---
17535.00	H	---	-13.00	---

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

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Figure 9-94: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Lowest

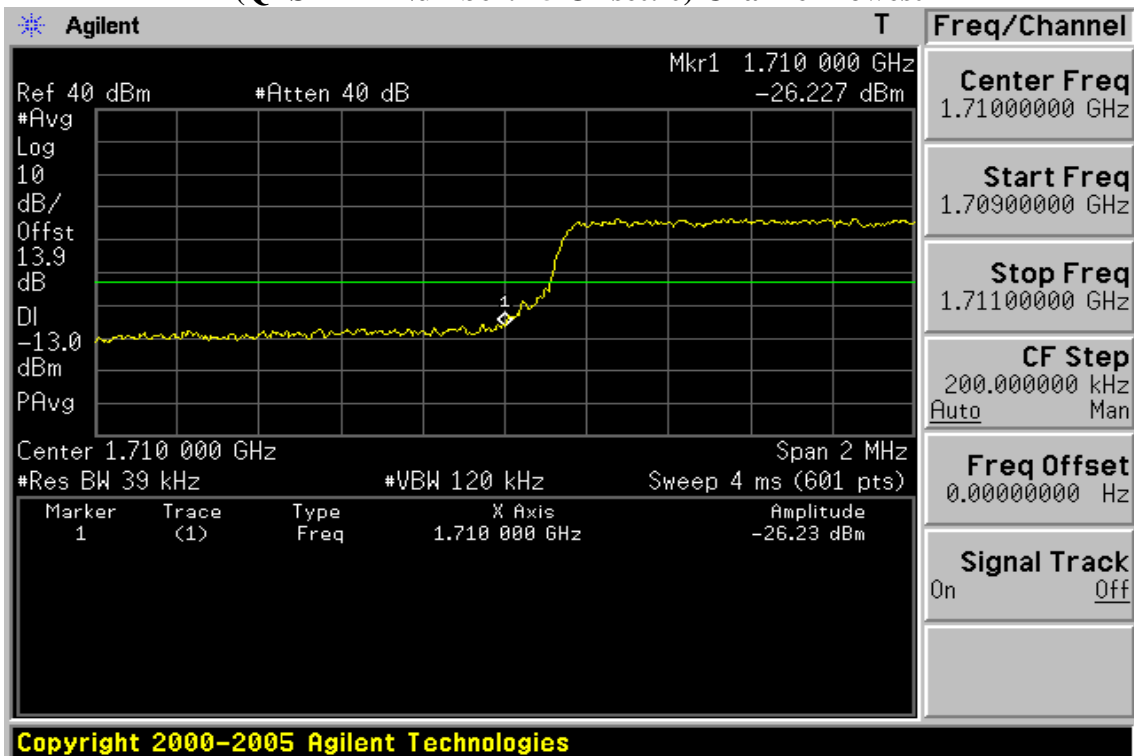
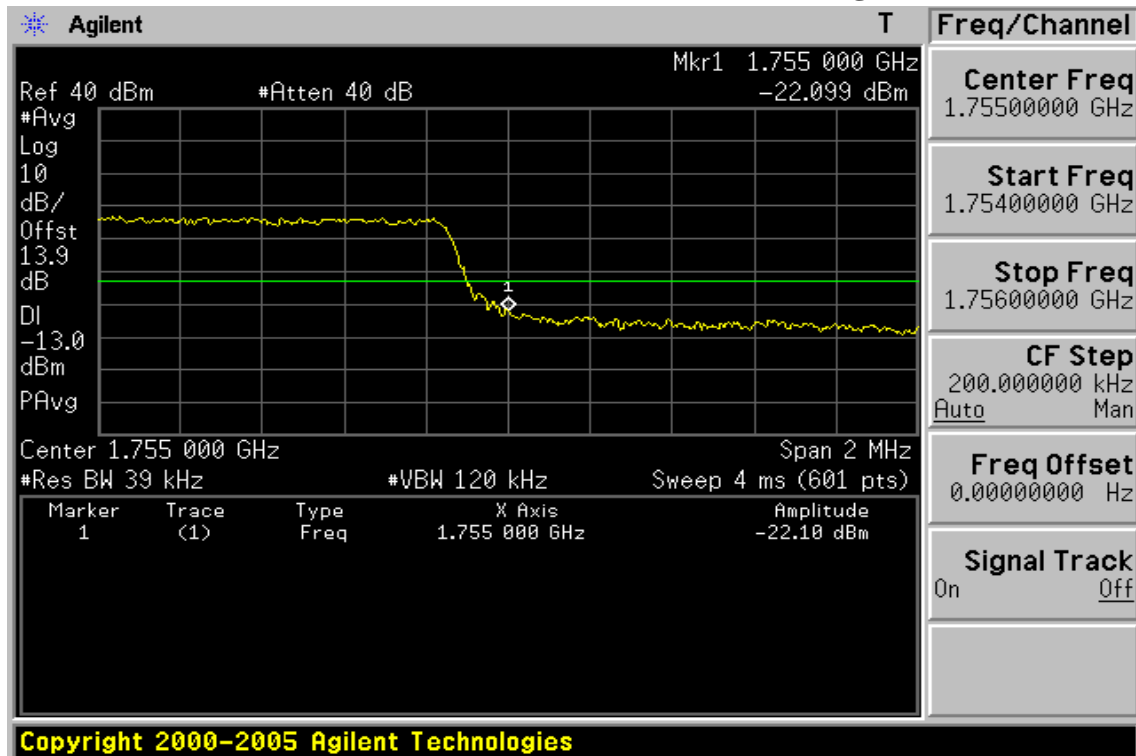


Figure 9-95: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 4

(QPSK RB Number: 15 Offset: 0)

Test Mode 3MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-26.23	-13.00	13.23
1755.000	-22.10	-13.00	9.10

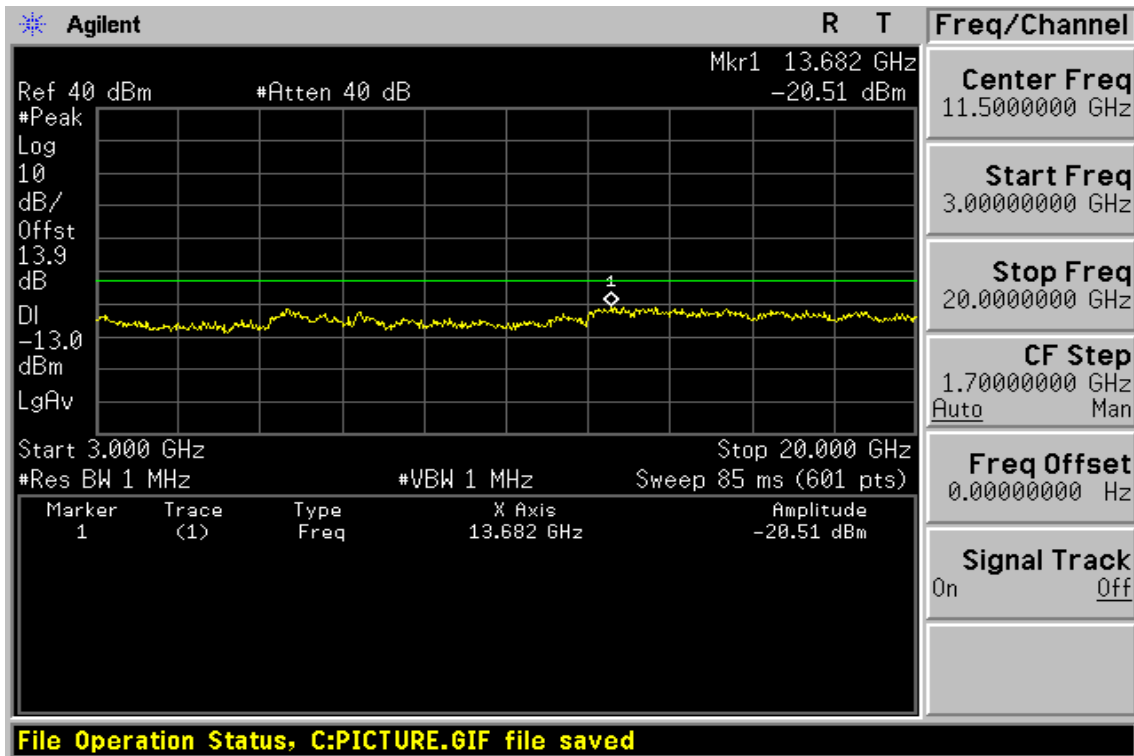
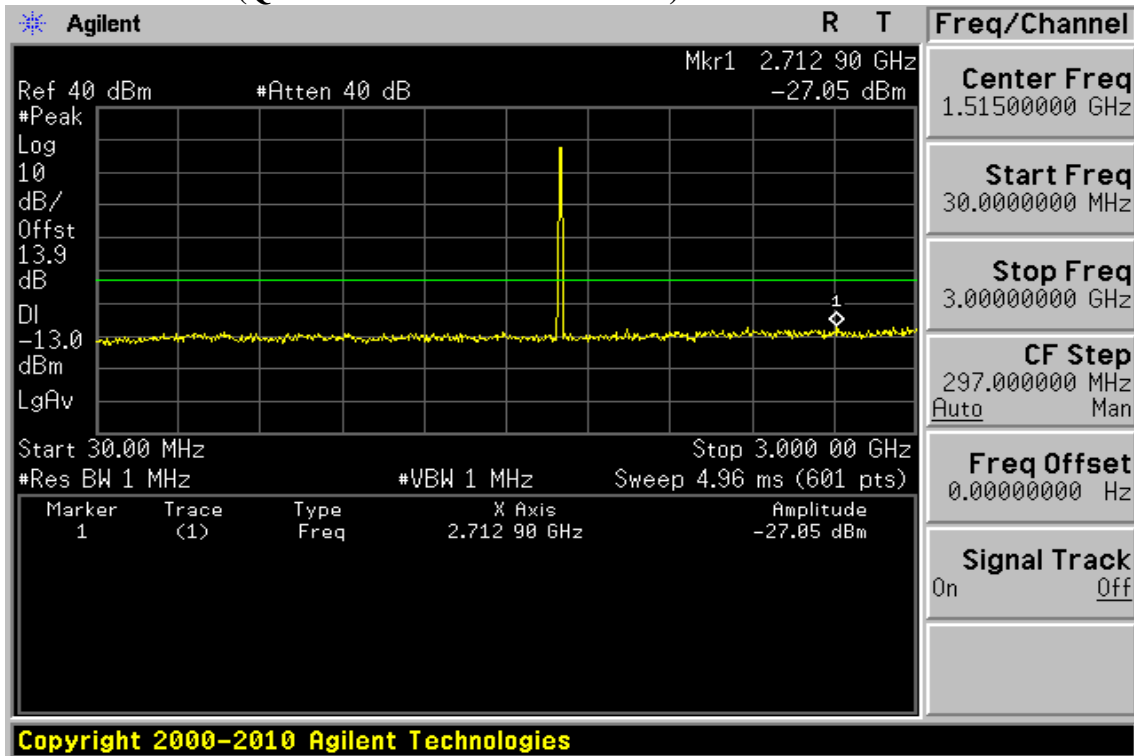
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Figure 9-96: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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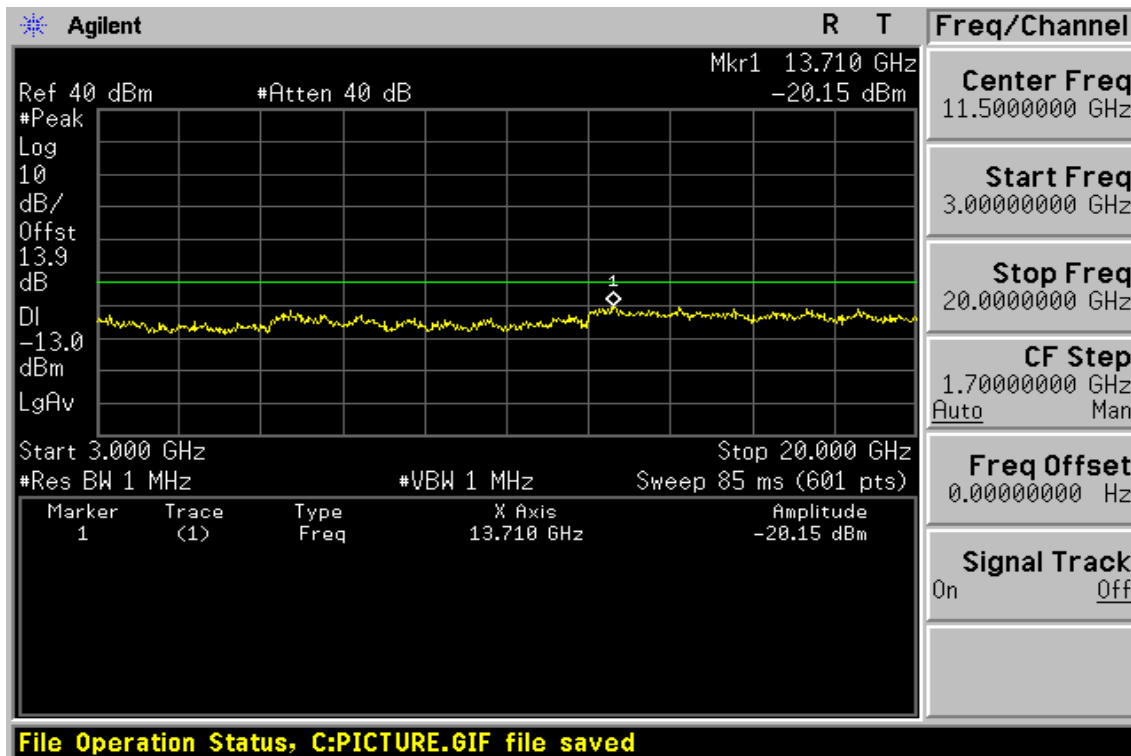
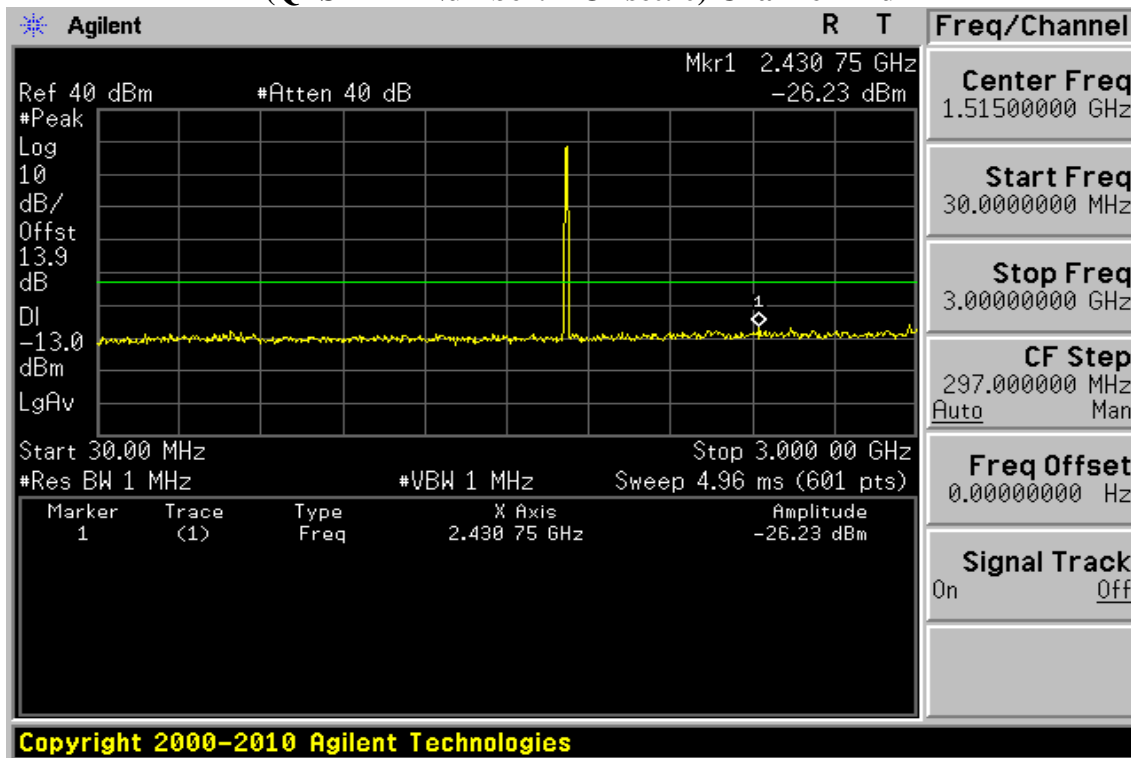
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Figure 9-97: Out of Band emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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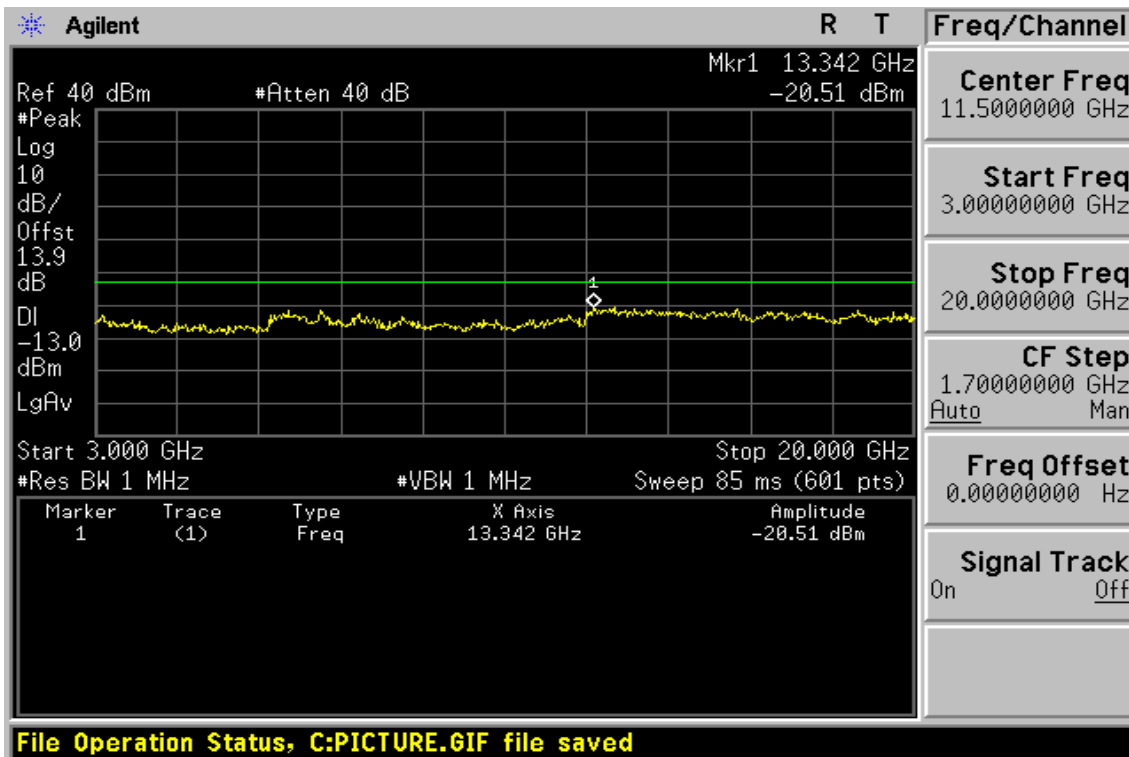
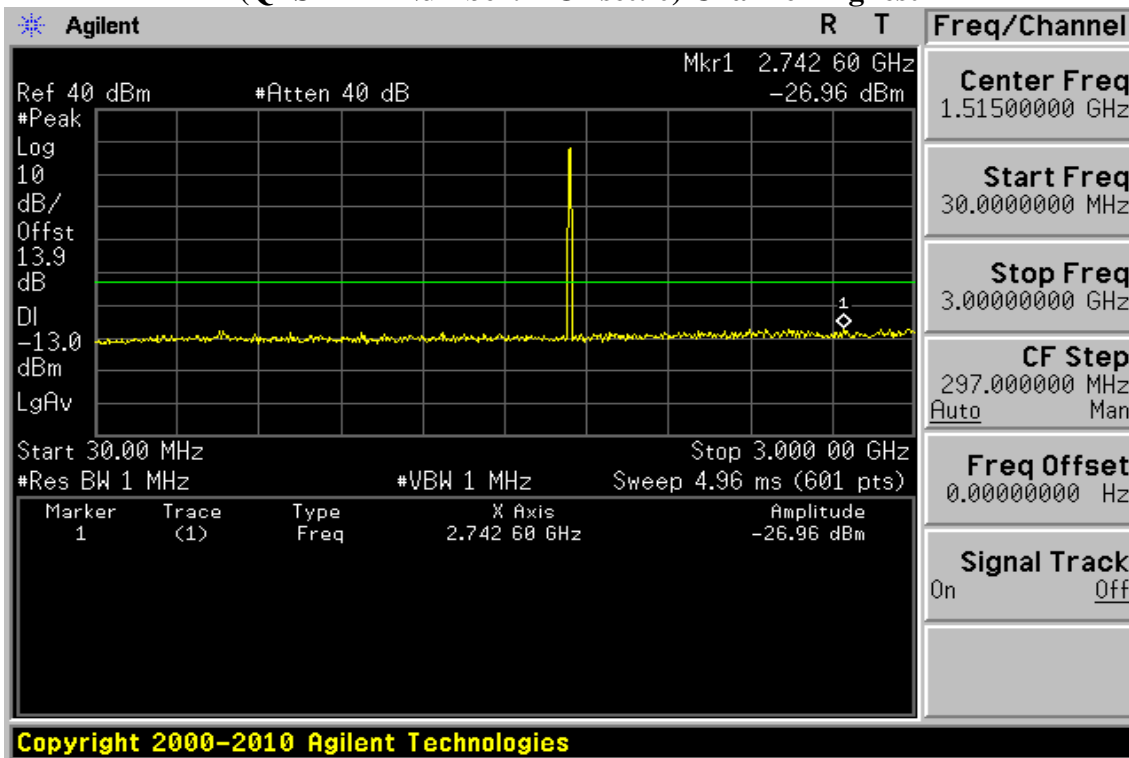
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Figure 9-98: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –5MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1712.5 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	---
3425.00	H	---	-13.00	---
5137.50	H	---	-13.00	---
6850.00	H	---	-13.00	---
8562.50	H	---	-13.00	---
10275.00	H	---	-13.00	---
11987.50	H	---	-13.00	---
13682.00	S	-20.51	-13.00	7.51
13700.00	H	---	-13.00	---
15412.50	H	---	-13.00	---
17125.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13710.00	S	-20.15	-13.00	7.15
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1752.5 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	---
3505.00	H	---	-13.00	---
5257.50	H	---	-13.00	---
7010.00	H	---	-13.00	---
8762.50	H	---	-13.00	---
10515.00	H	---	-13.00	---
12267.50	H	---	-13.00	---
13342.00	S	-20.51	-13.00	7.51
14020.00	H	---	-13.00	---
15772.50	H	---	-13.00	---
17525.00	H	---	-13.00	---

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

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Figure 9-99: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

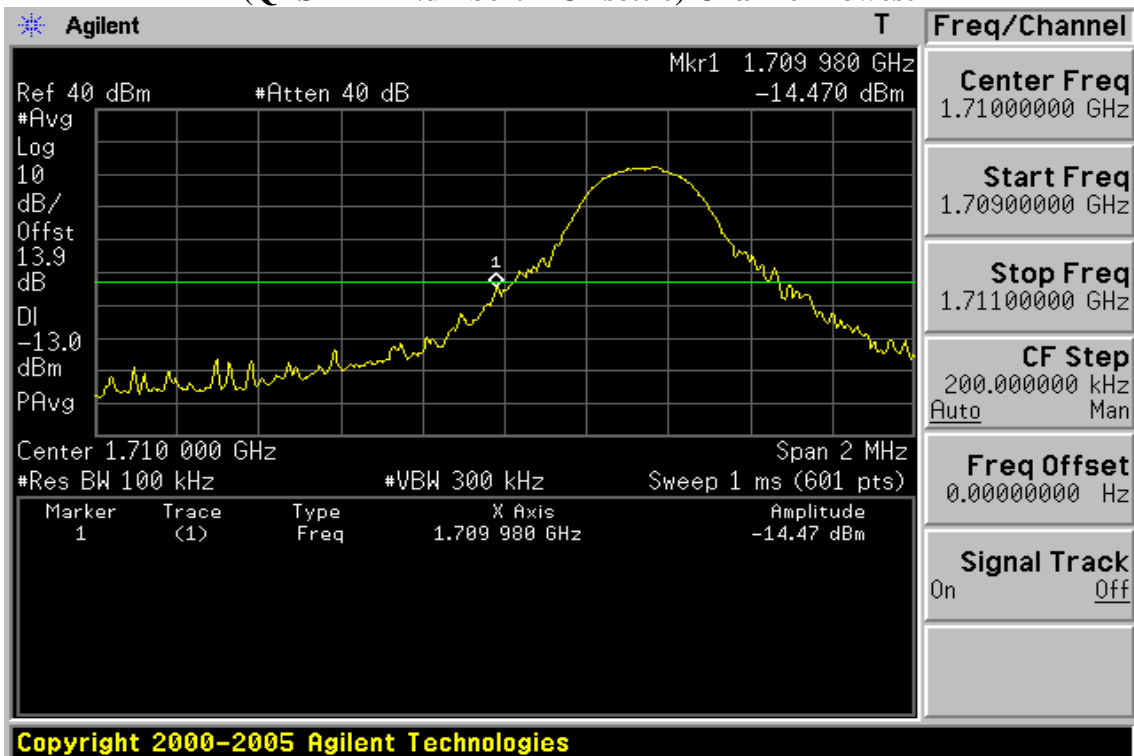
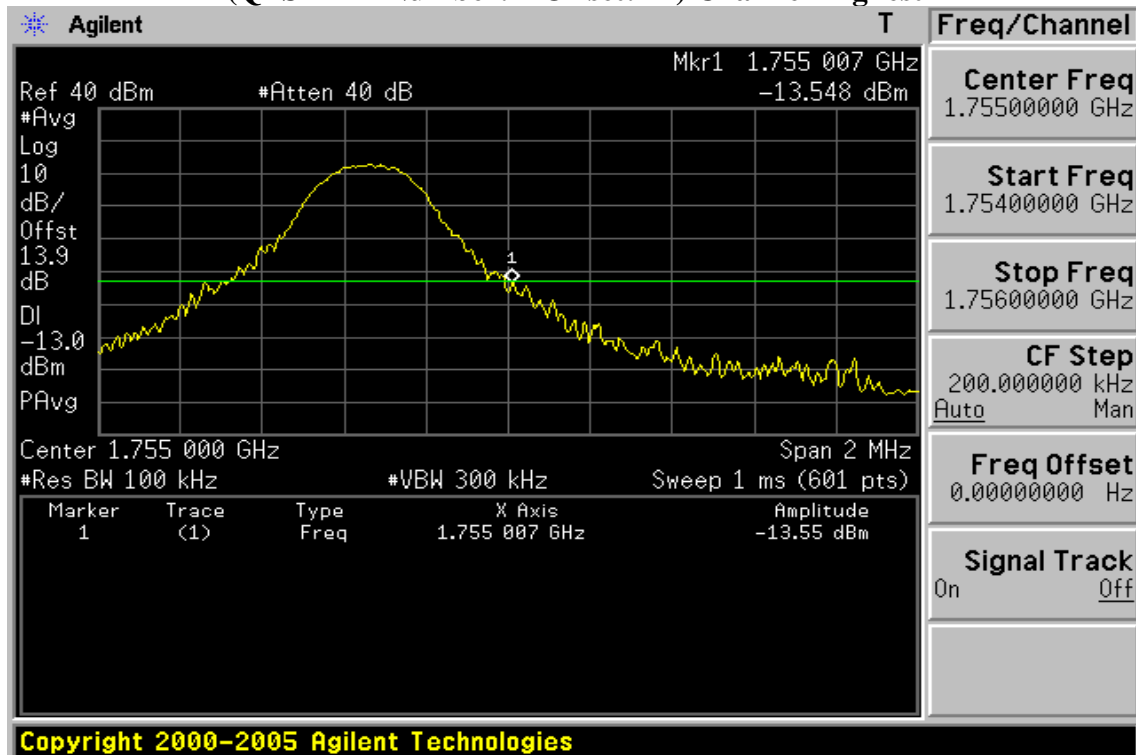


Figure 9-100: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 4

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

Test Mode 5MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-14.47	-13.00	1.47
1755.007	-13.55	-13.00	0.55

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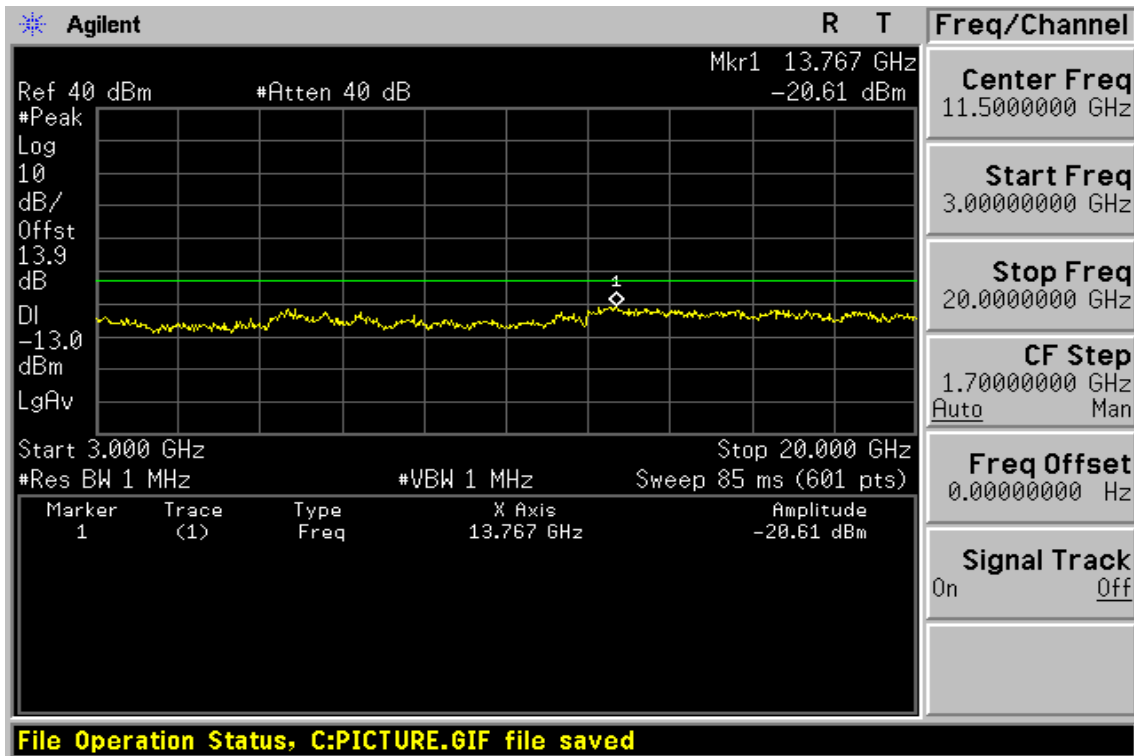
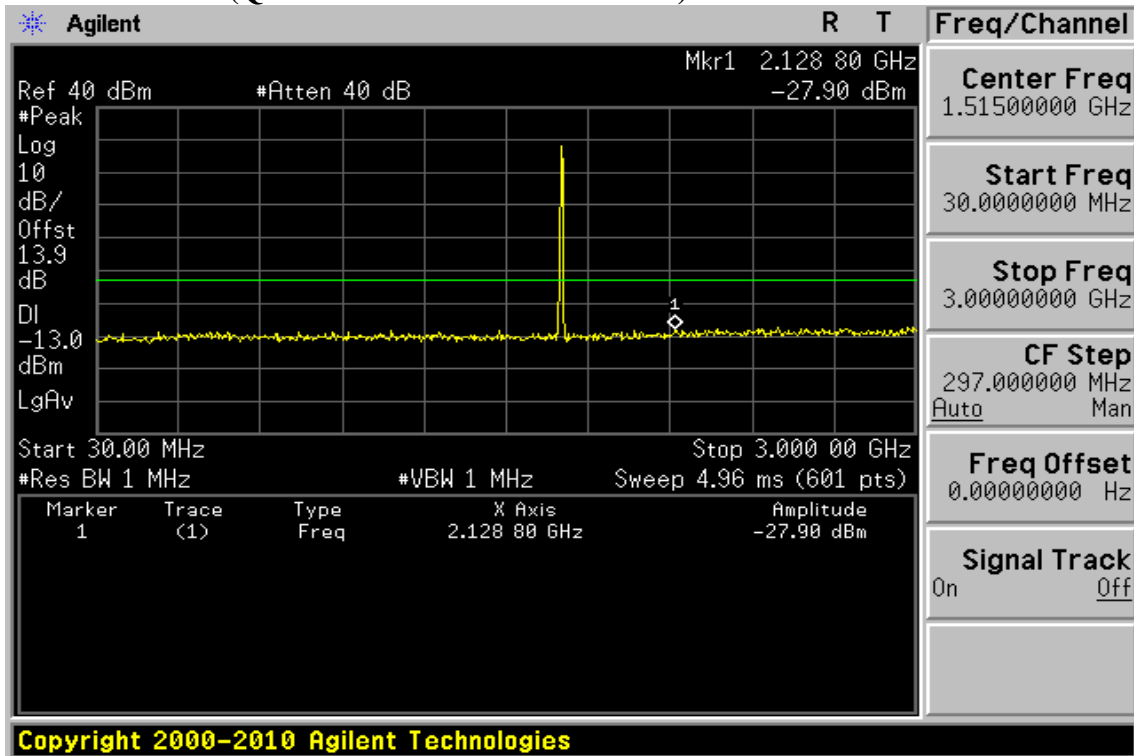
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Figure 9-101: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Lowest



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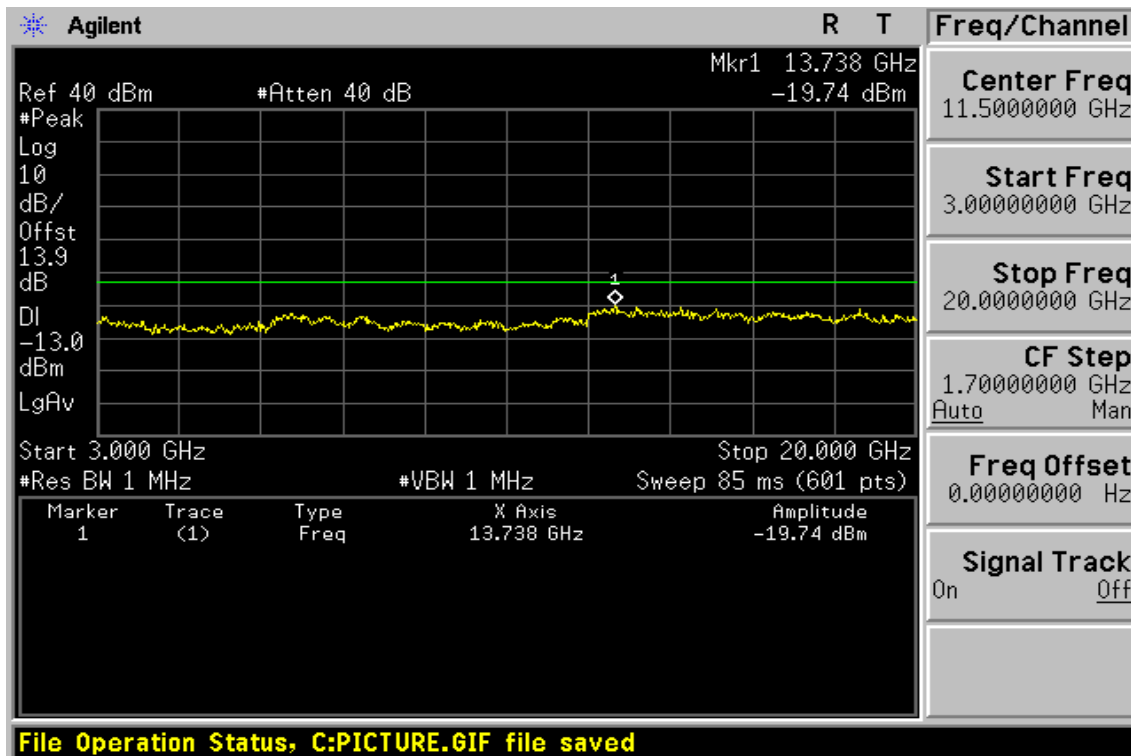
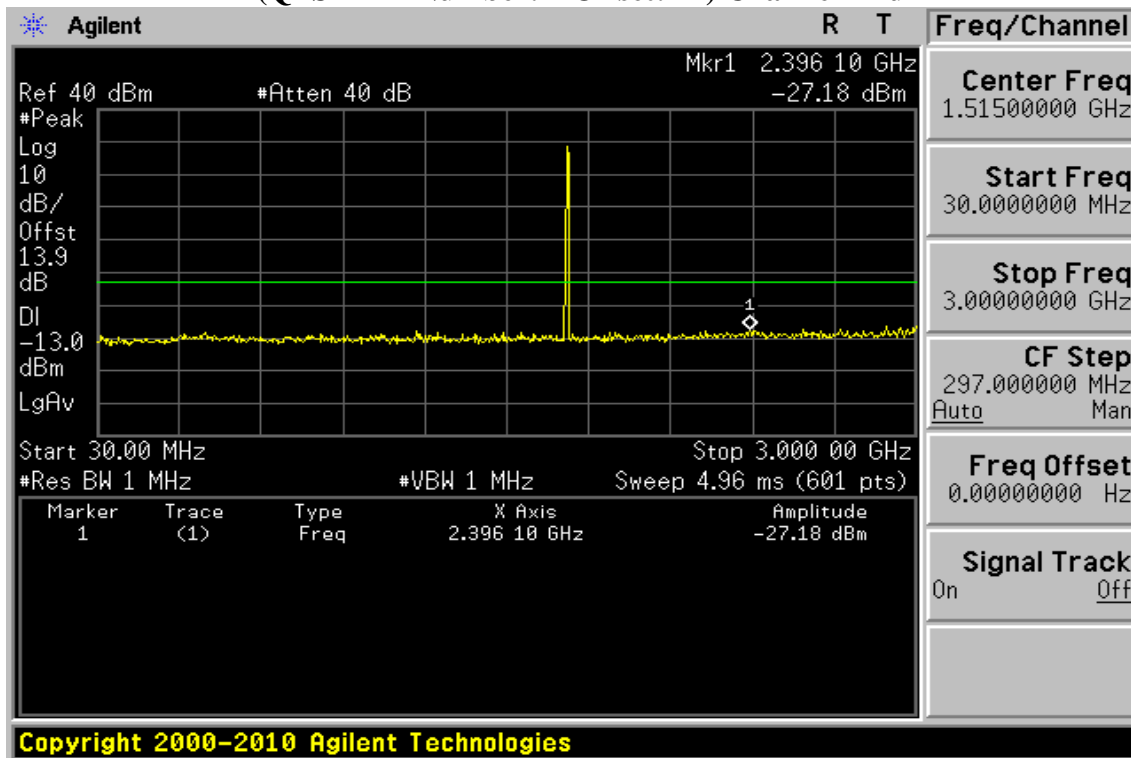
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Figure 9-102: Out of Band emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Mid



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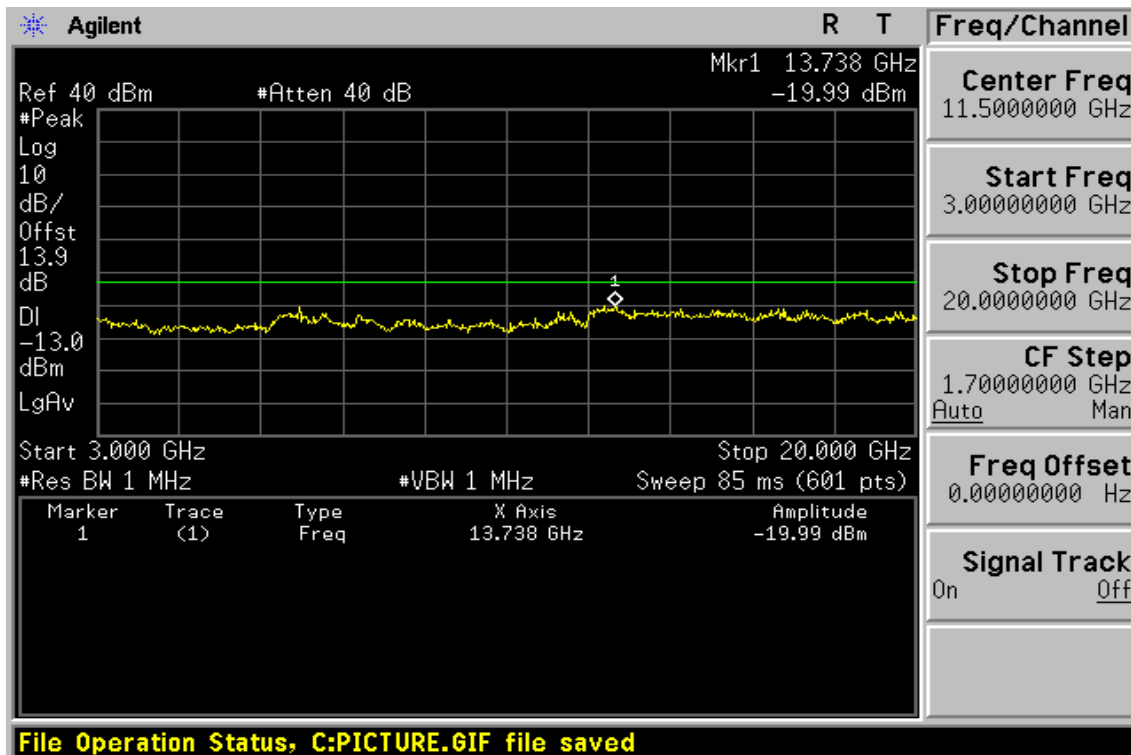
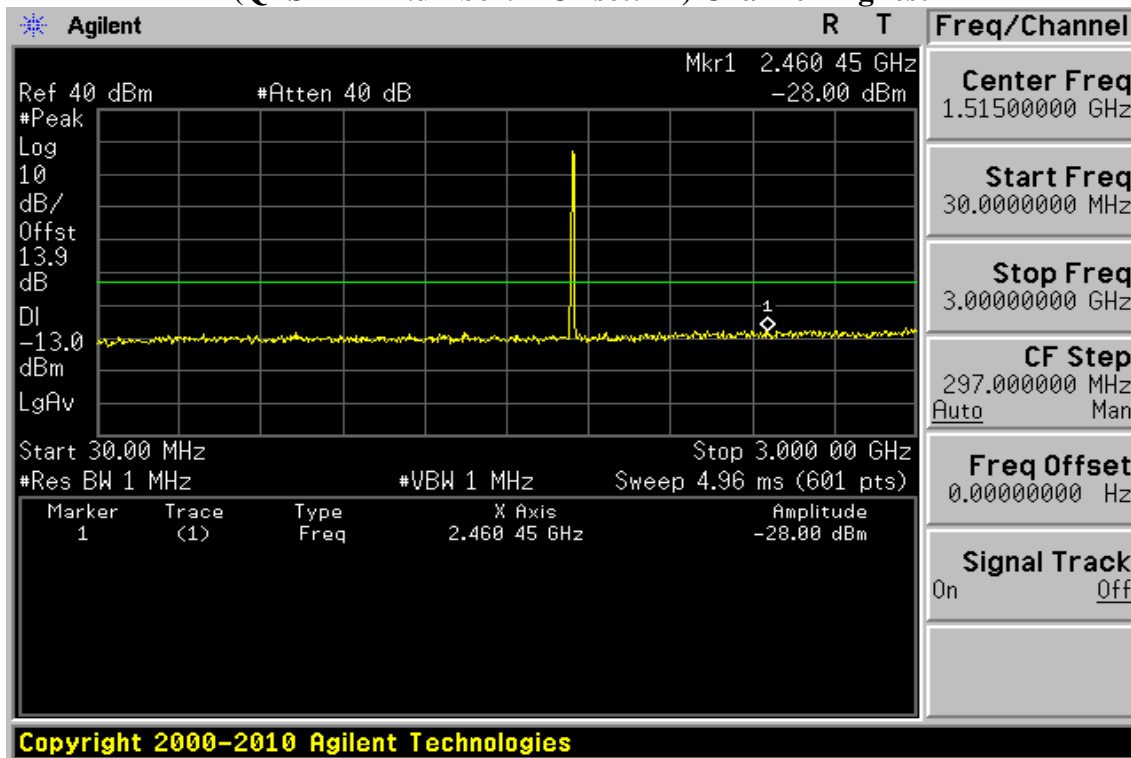
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Figure 9-103: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Out of Band emission at antenna terminals –5MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 24)

Fundamental Frequency :1712.5 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	---
3425.00	H	---	-13.00	---
5137.50	H	---	-13.00	---
6850.00	H	---	-13.00	---
8562.50	H	---	-13.00	---
10275.00	H	---	-13.00	---
11987.50	H	---	-13.00	---
13700.00	H	---	-13.00	---
13767.00	S	-20.61	-13.00	7.61
15412.50	H	---	-13.00	---
17125.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13738.00	S	-19.74	-13.00	6.74
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1752.5MHz 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	---
3505.00	H	---	-13.00	---
5257.50	H	---	-13.00	---
7010.00	H	---	-13.00	---
8762.50	H	---	-13.00	---
10515.00	H	---	-13.00	---
12267.50	H	---	-13.00	---
13738.00	S	-19.99	-13.00	6.99
14020.00	H	---	-13.00	---
15772.50	H	---	-13.00	---
17525.00	H	---	-13.00	---

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

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Figure 9-104: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Lowest

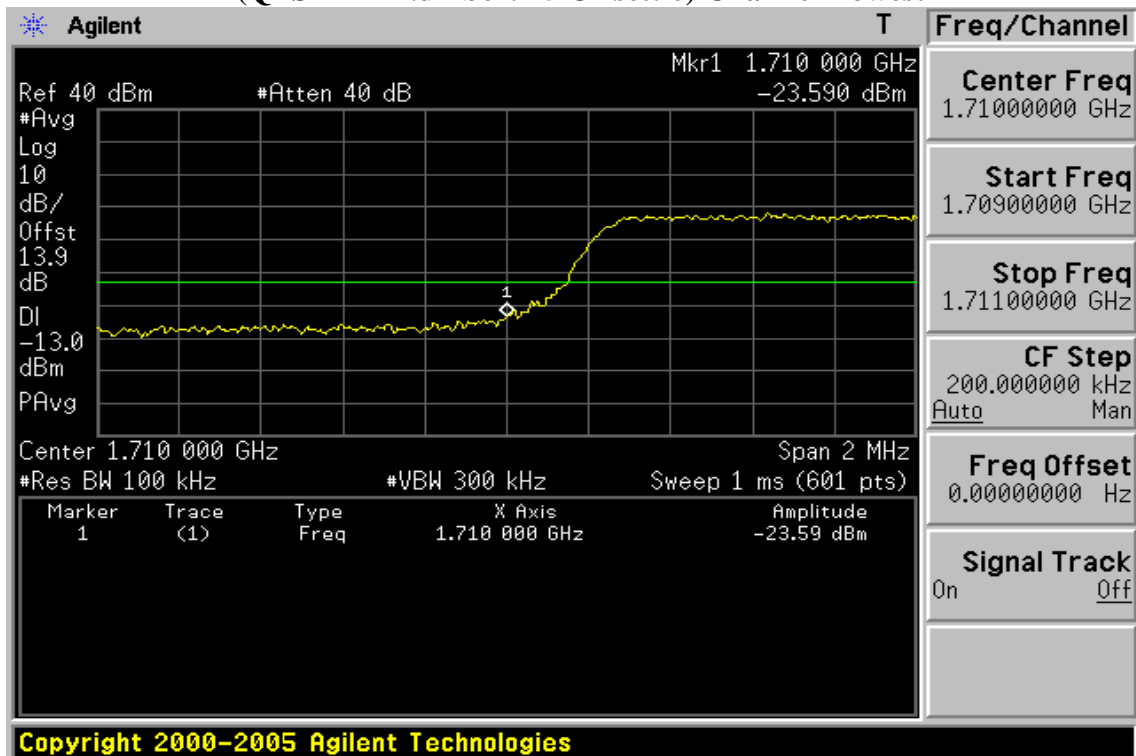
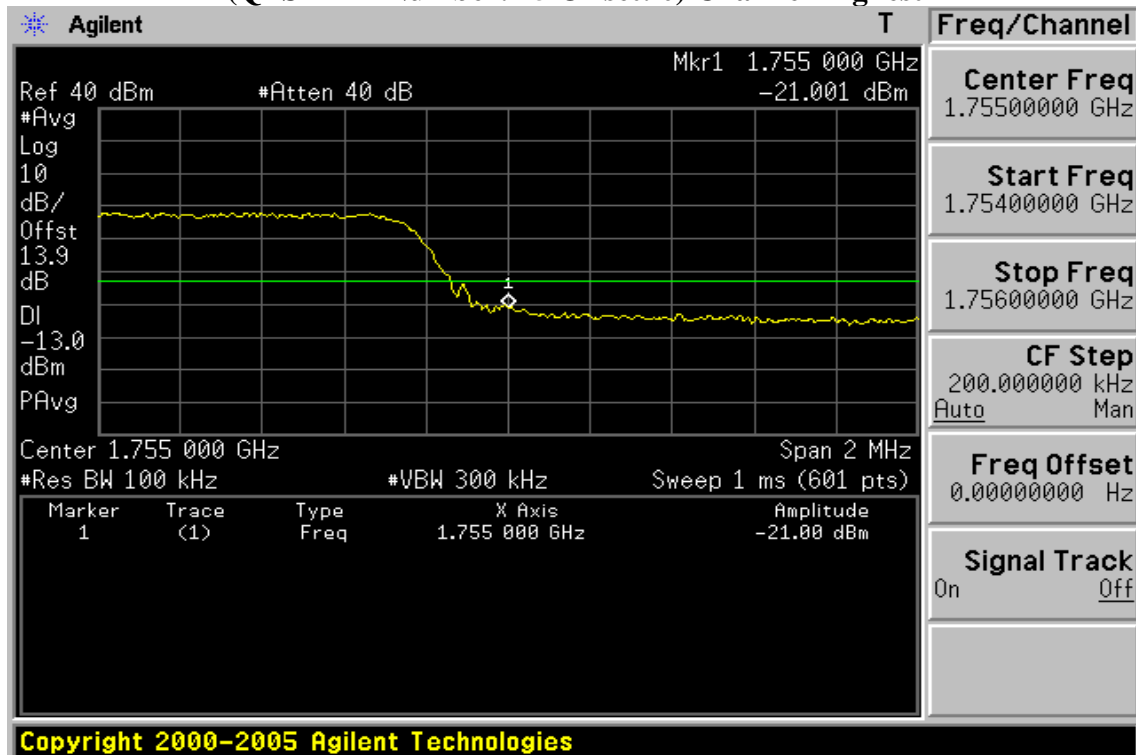


Figure 9-105: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 4

(QPSK RB Number: 25 Offset: 0)

Test Mode 5MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-23.59	-13.00	10.59
1755.000	-21.00	-13.00	8.00

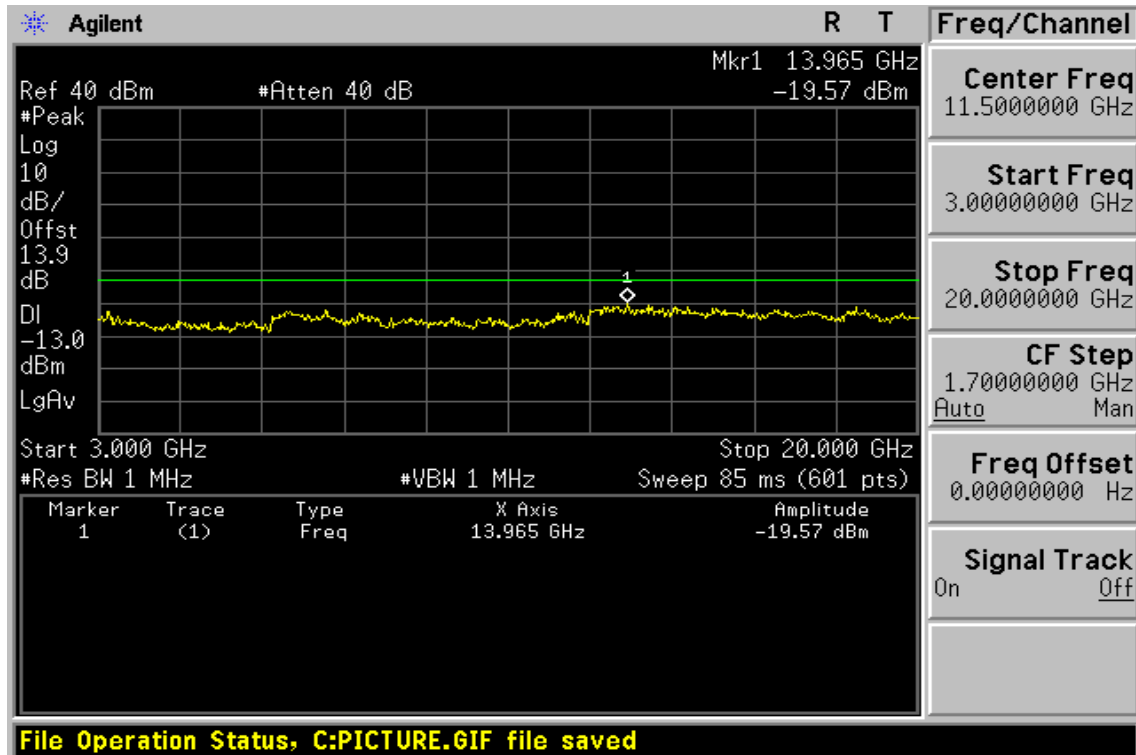
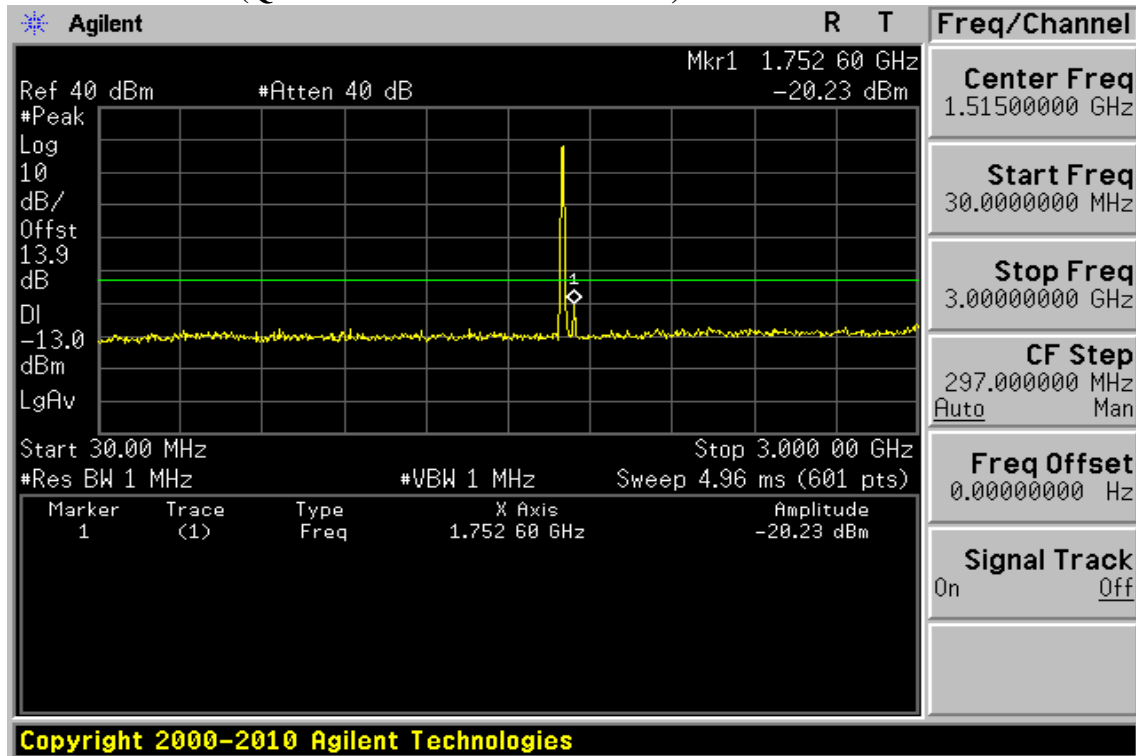
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Figure 9-106: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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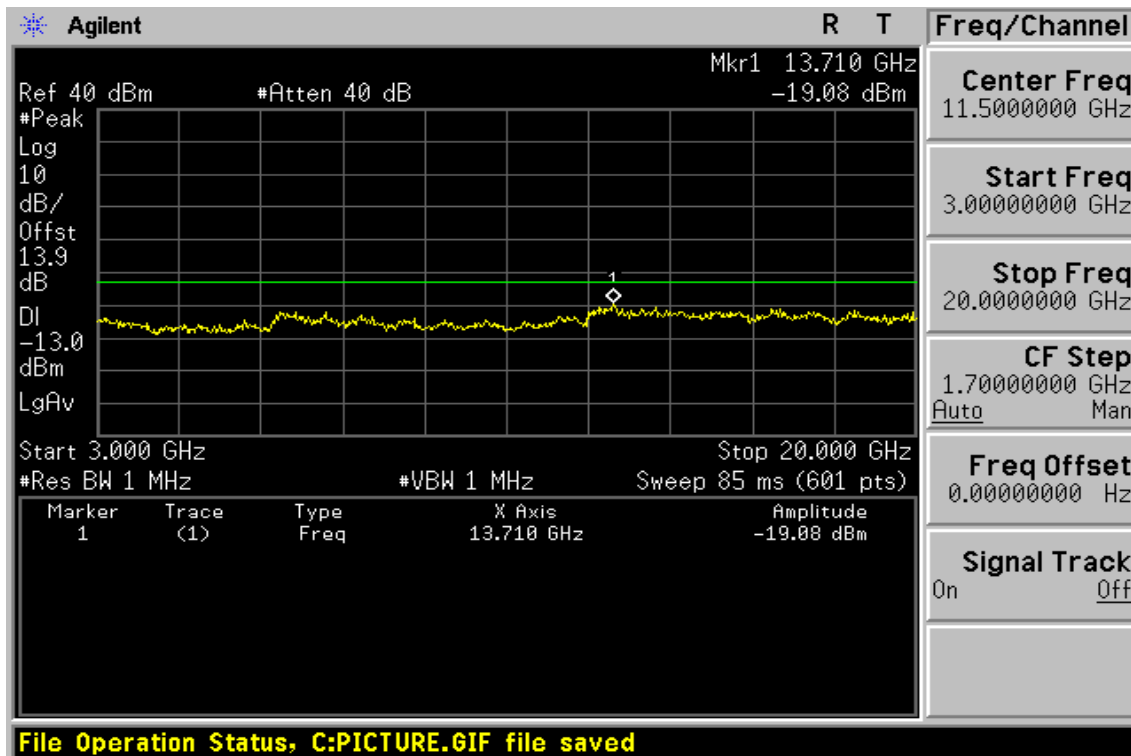
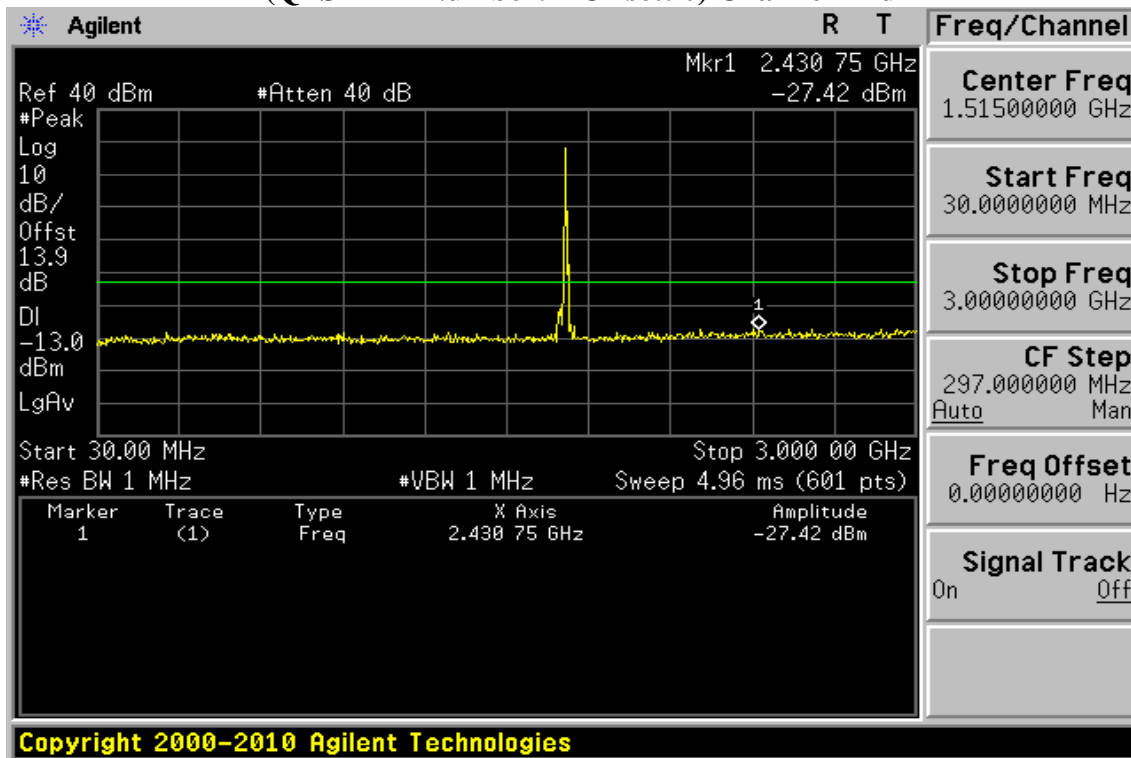
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Figure 10-107: Out of Band emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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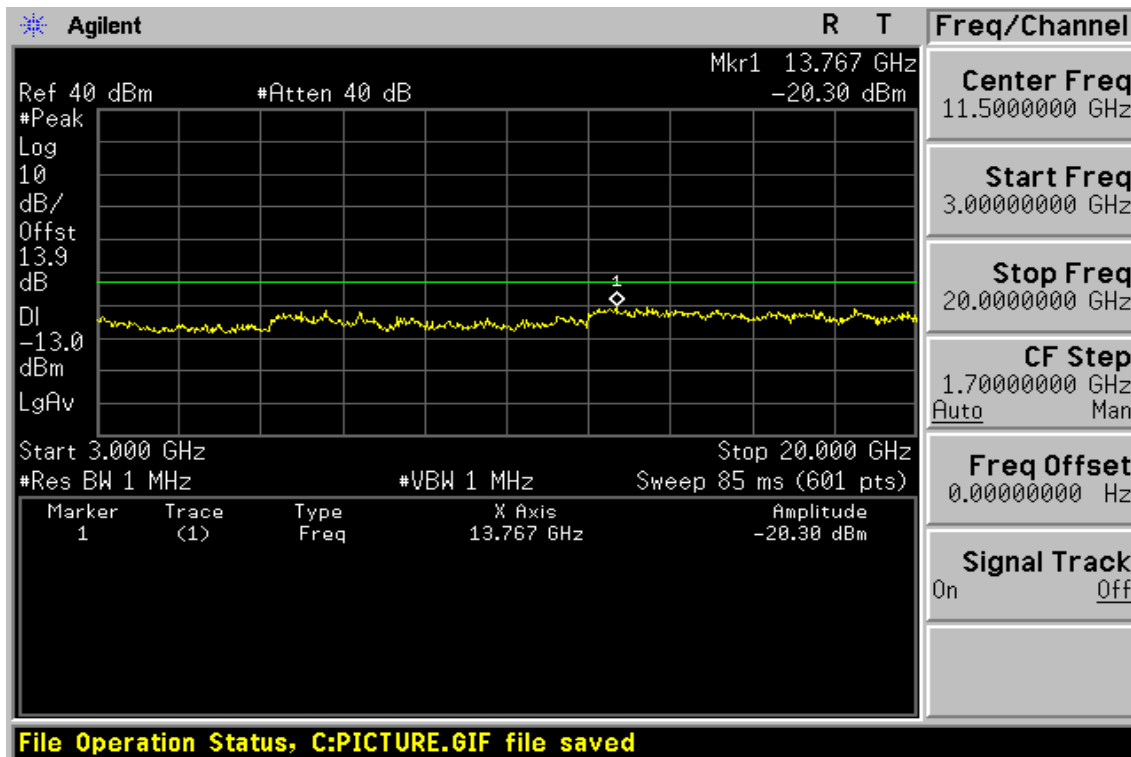
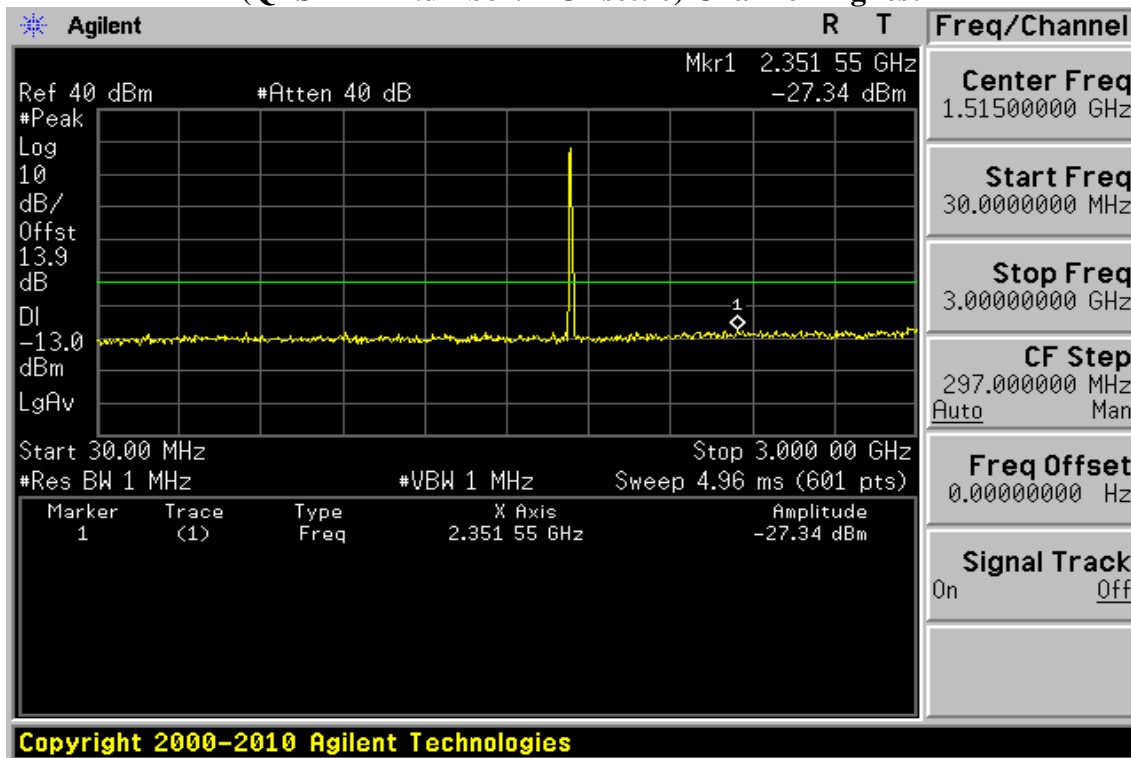
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Figure 10-108: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –10MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1715.0 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	---
3430.00	H	---	-13.00	---
5145.00	H	---	-13.00	---
6860.00	H	---	-13.00	---
8575.00	H	---	-13.00	---
10290.00	H	---	-13.00	---
12005.00	H	---	-13.00	---
13720.00	H	---	-13.00	---
13965.00	S	-19.57	-13.00	6.57
15435.00	H	---	-13.00	---
17150.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13710.00	S	-19.08	-13.00	6.08
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Figure 10-109: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

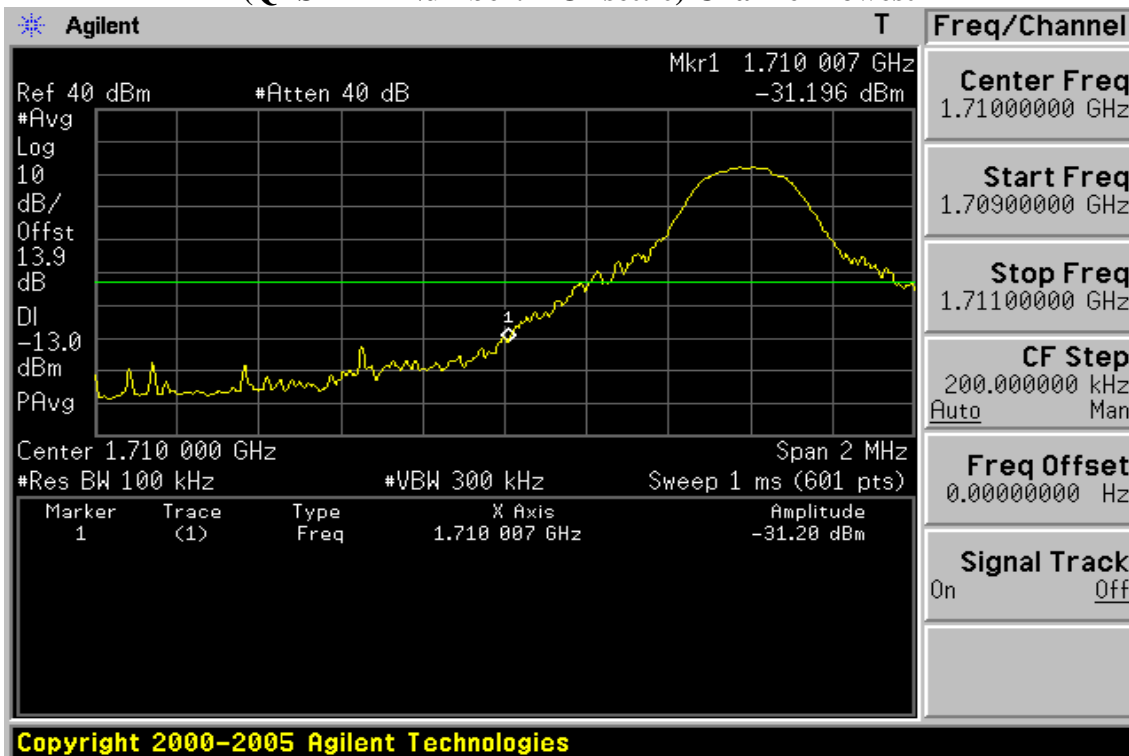
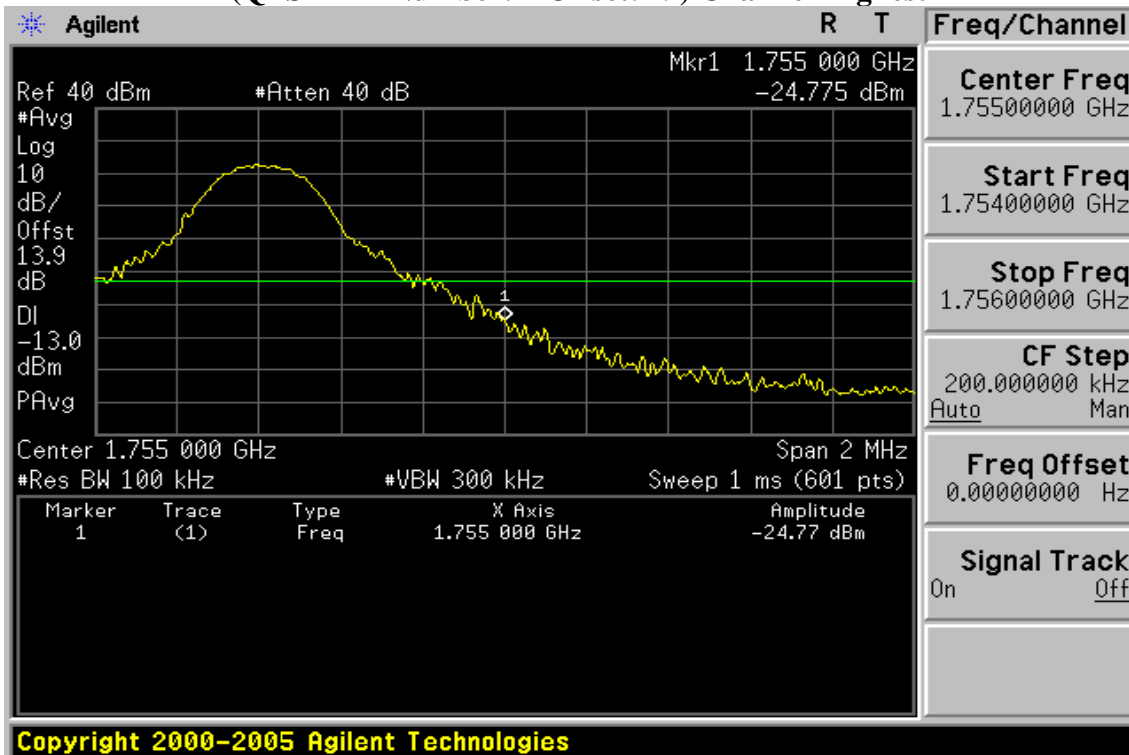


Figure 10-110: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 4

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

Test Mode 10MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.007	-31.20	-13.00	18.20
1755.000	-24.77	-13.00	11.77

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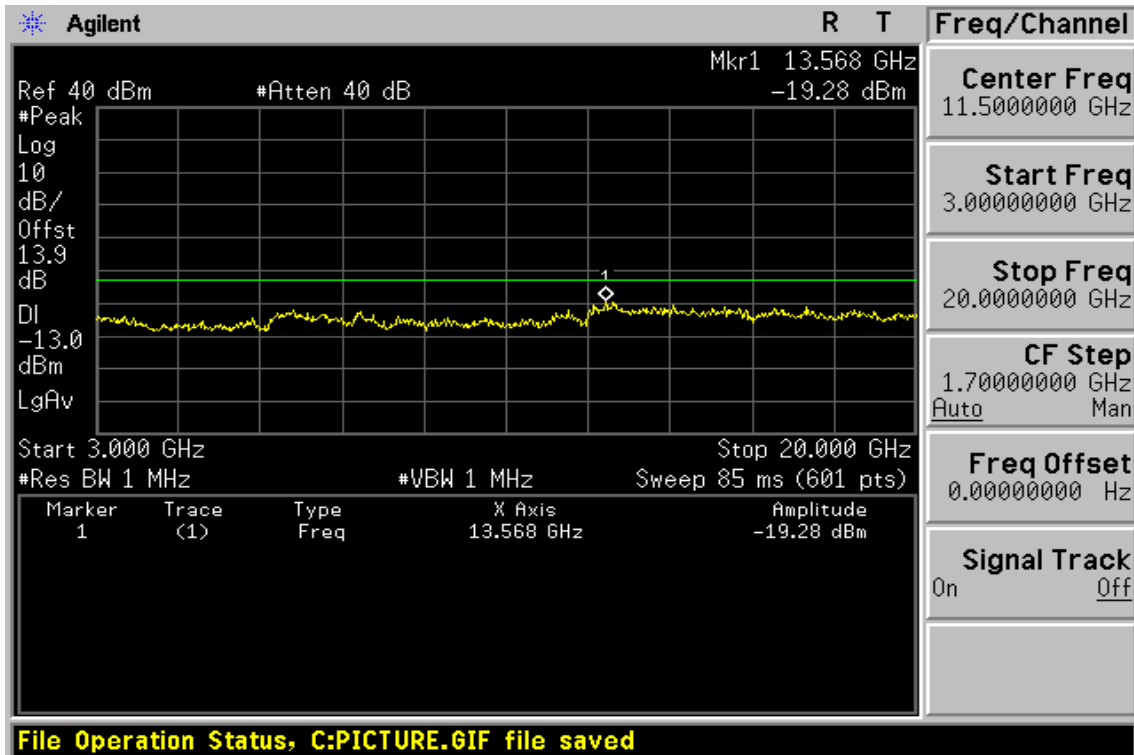
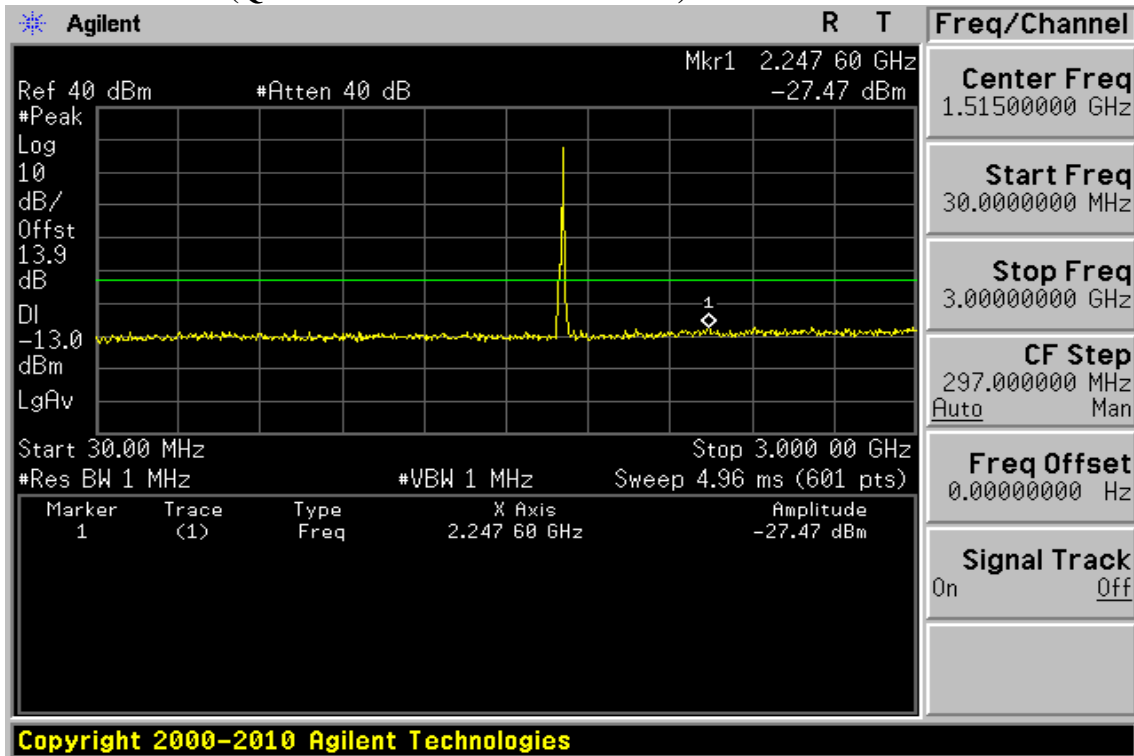
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Figure 10-111: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Lowest



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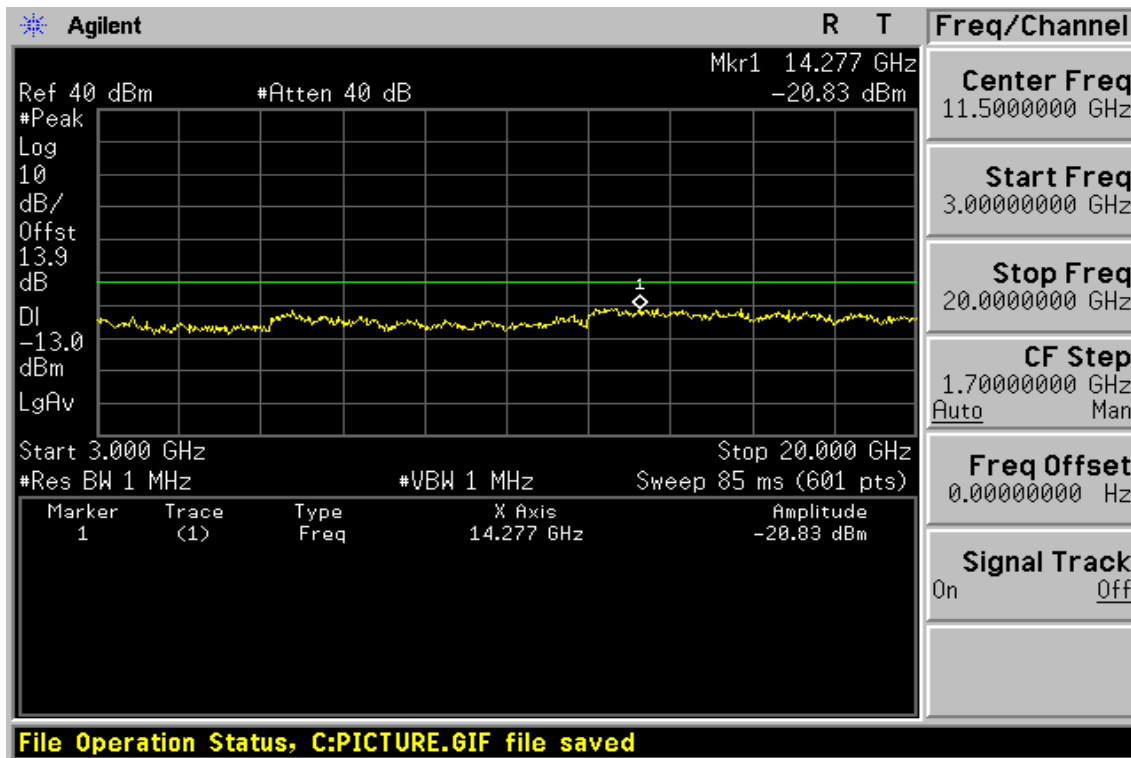
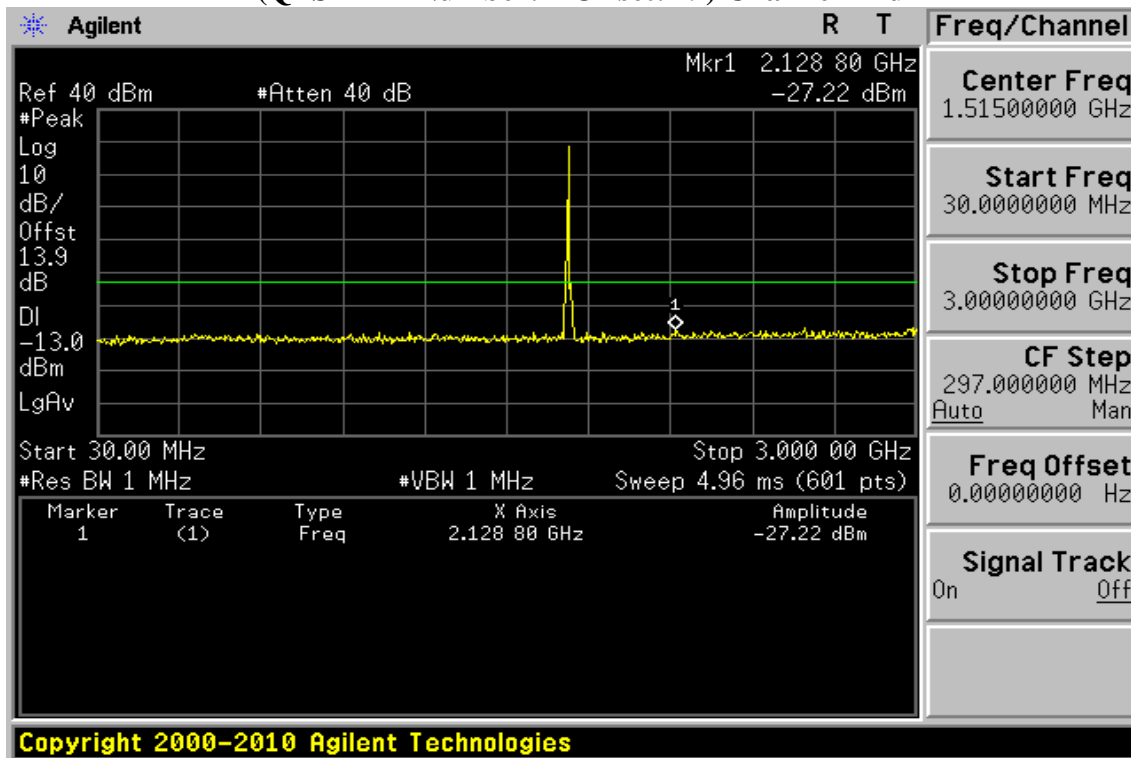
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Figure 10-112: Out of Band emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Mid



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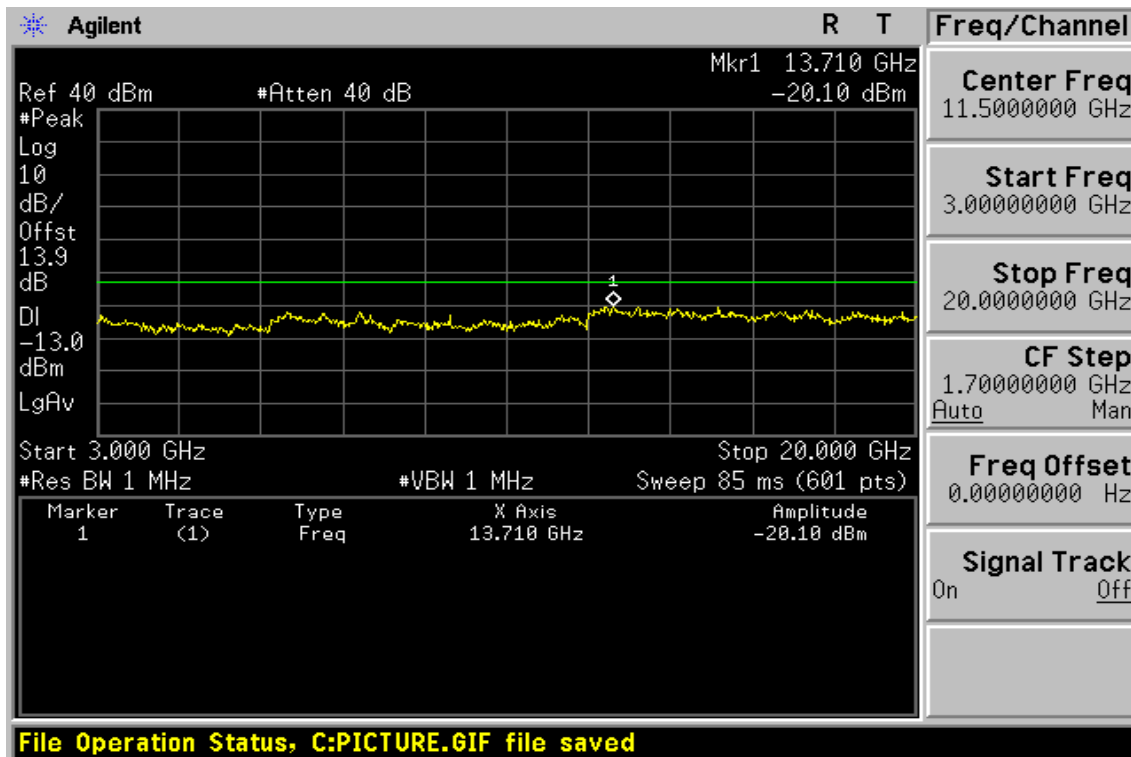
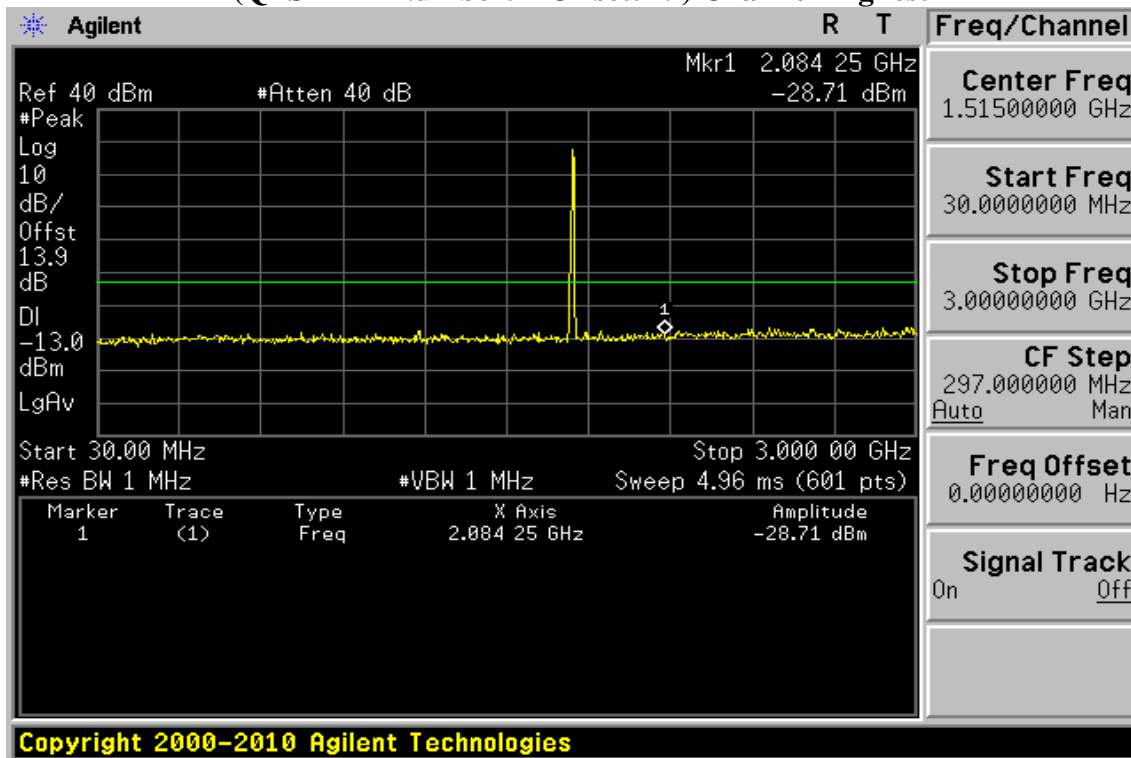
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Figure 10-113: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Highest



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(QPSK RB Number: 1 Offset: 49)

Fundamental Frequency :1715.0 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	---
3430.00	H	---	-13.00	---
5145.00	H	---	-13.00	---
6860.00	H	---	-13.00	---
8575.00	H	---	-13.00	---
10290.00	H	---	-13.00	---
12005.00	H	---	-13.00	---
13568.00	S	-19.28	-13.00	6.28
13720.00	H	---	-13.00	---
15435.00	H	---	-13.00	---
17150.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13860.00	H	---	-13.00	---
14277.00	S	-20.83	-13.00	7.83
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1750.0 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	---
3500.00	H	---	-13.00	---
5250.00	H	---	-13.00	---
7000.00	H	---	-13.00	---
8750.00	H	---	-13.00	---
10500.00	H	---	-13.00	---
12250.00	H	---	-13.00	---
13710.00	S	-20.10	-13.00	7.10
14000.00	H	---	-13.00	---
15750.00	H	---	-13.00	---
17500.00	H	---	-13.00	---

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

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Figure 10-114: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Lowest

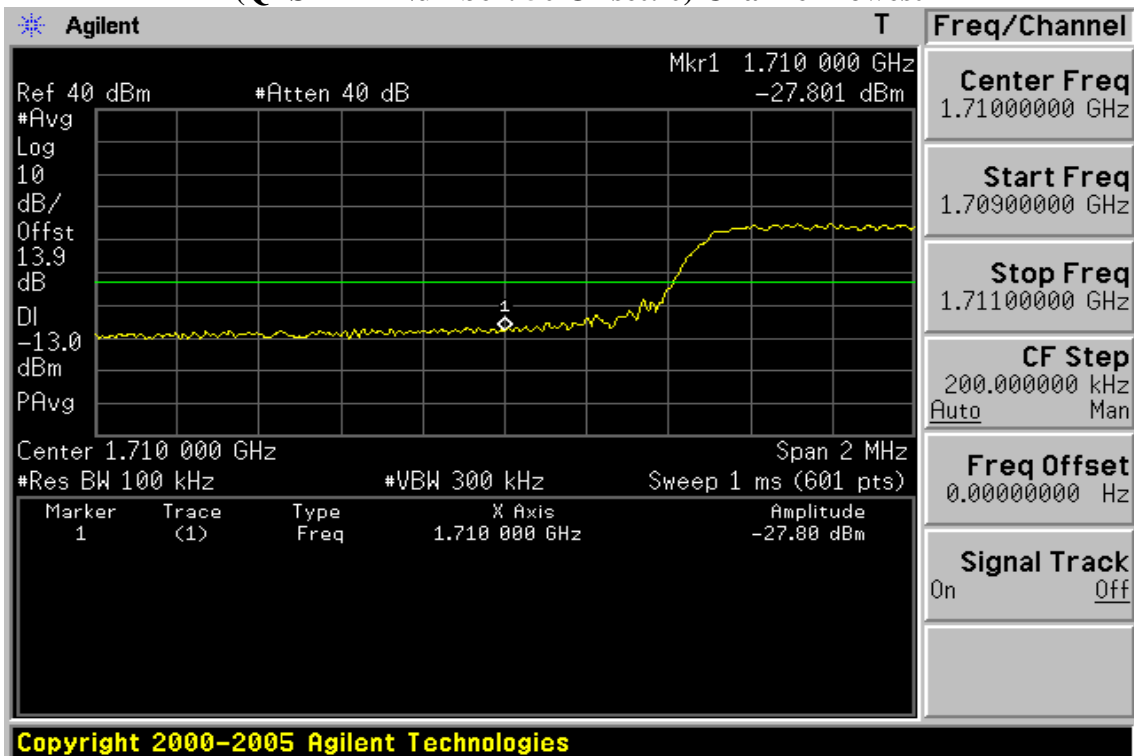
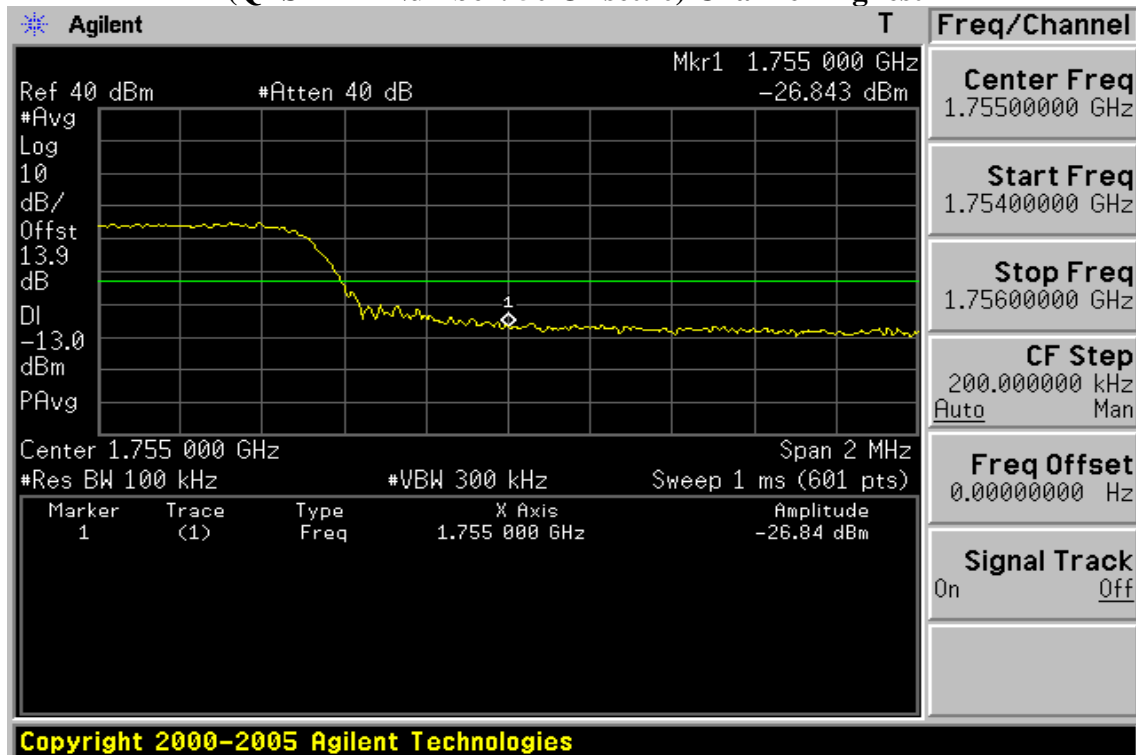


Figure 10-115: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 4

(QPSK RB Number: 50 Offset: 0)

Test Mode 10MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-27.80	-13.00	14.80
1755.000	-26.84	-13.00	13.84

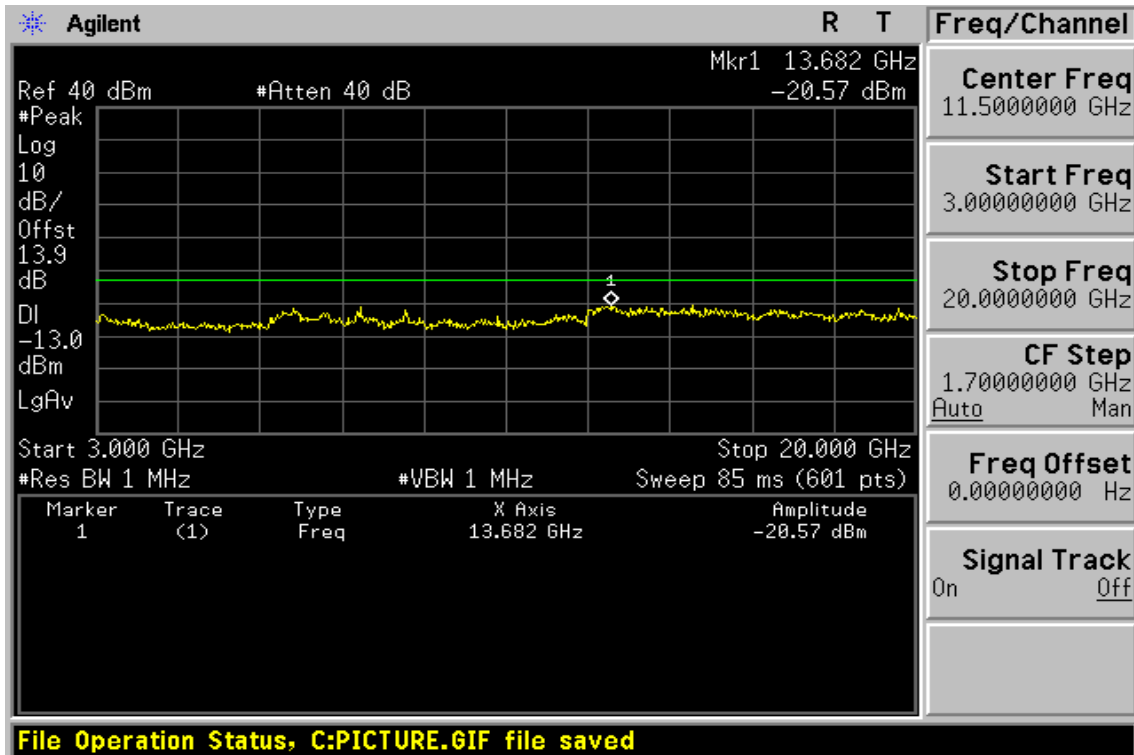
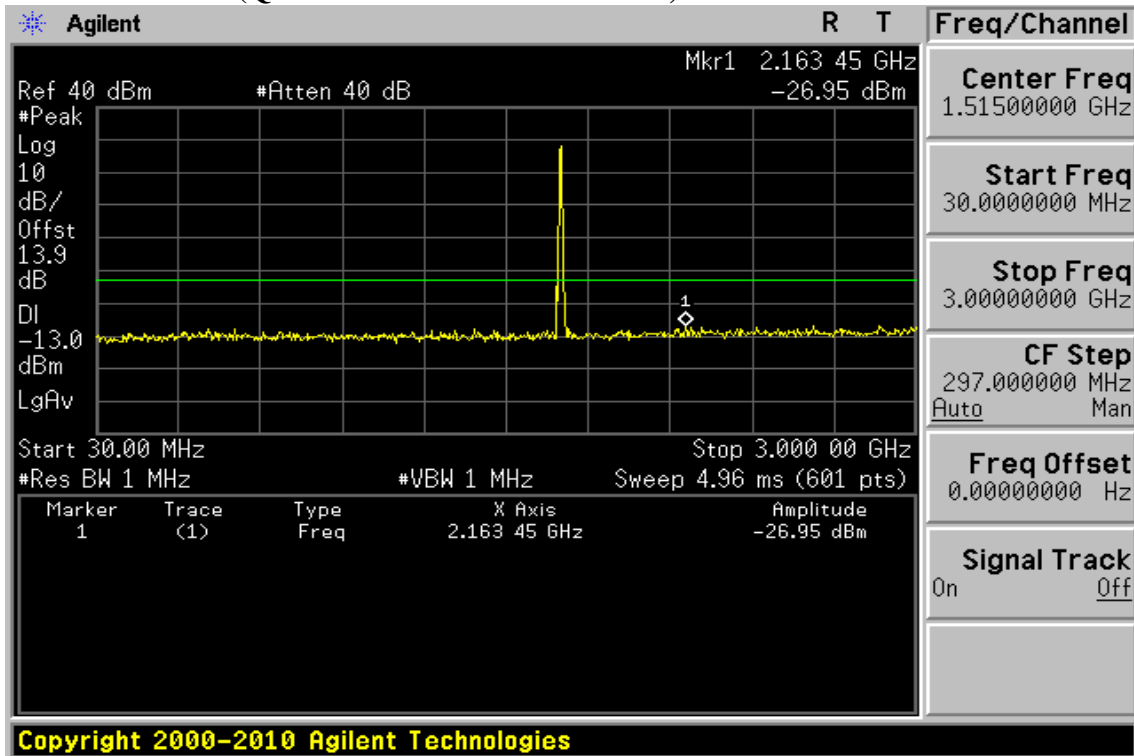
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Figure 10-116: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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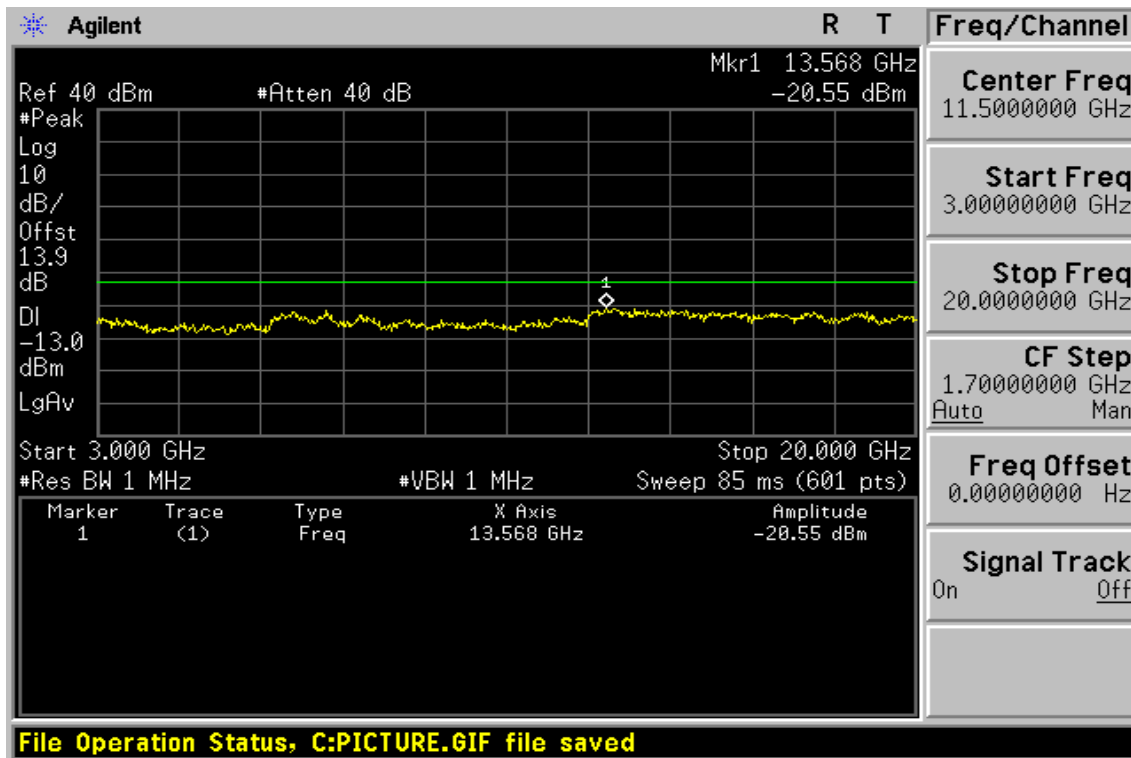
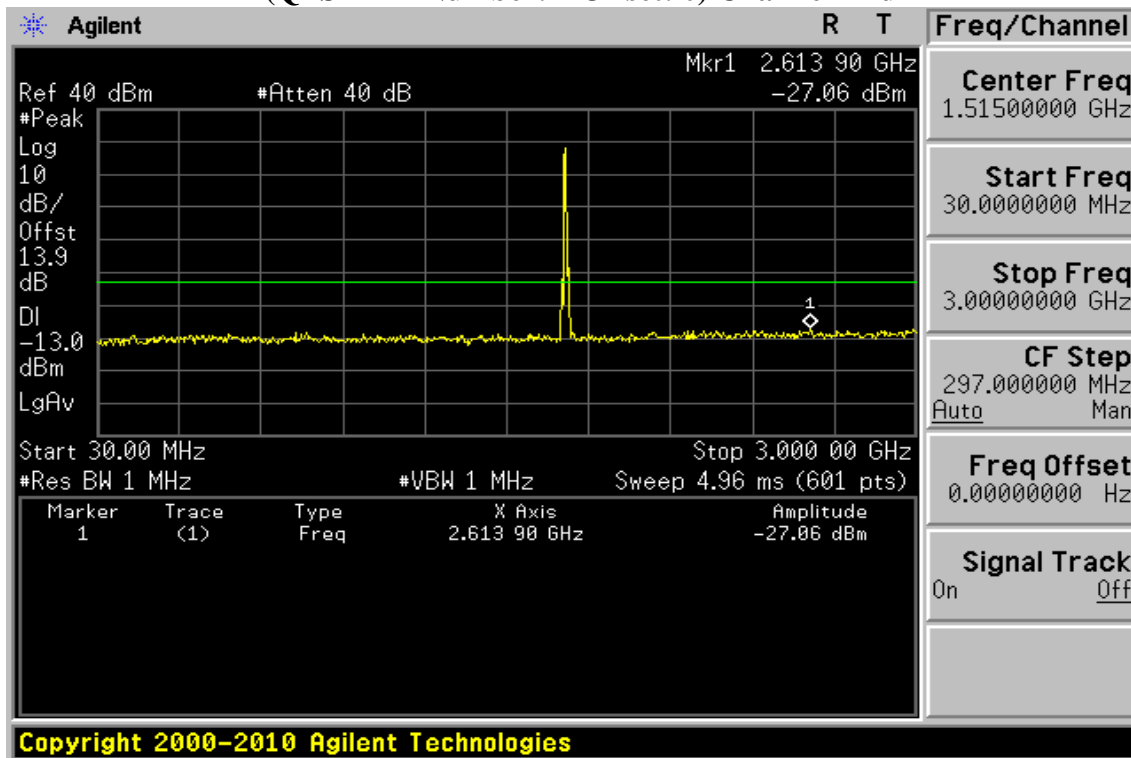
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Figure 10-117: Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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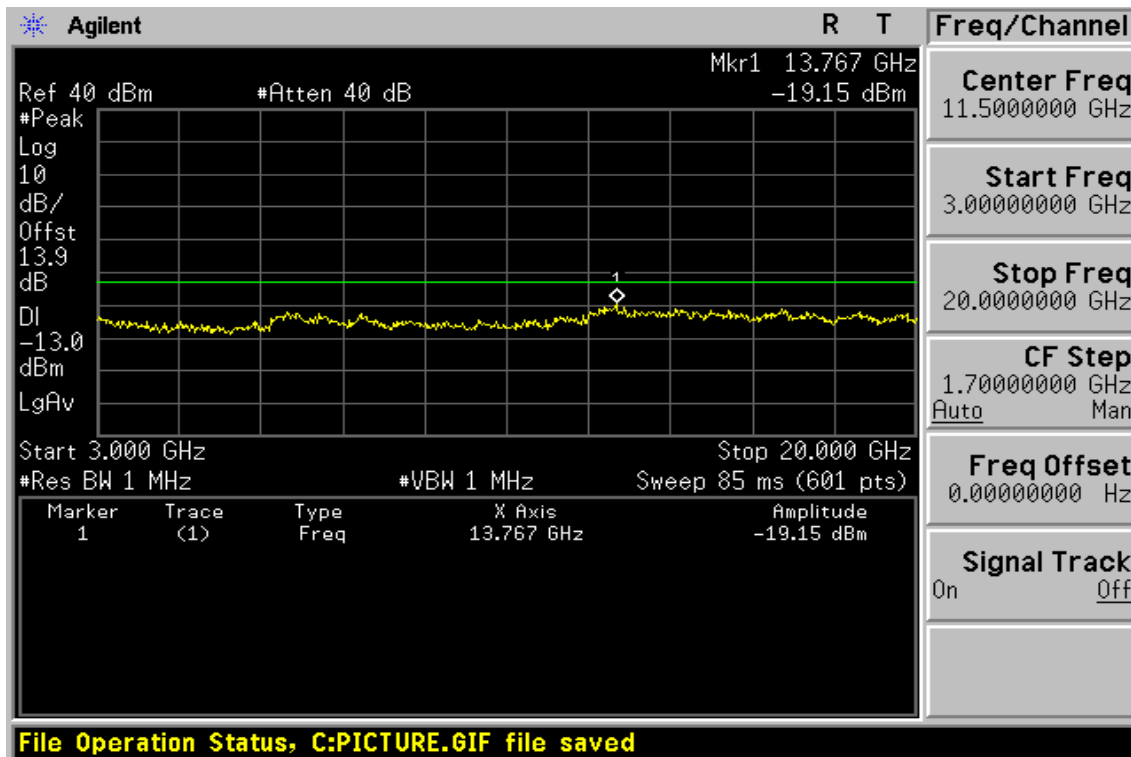
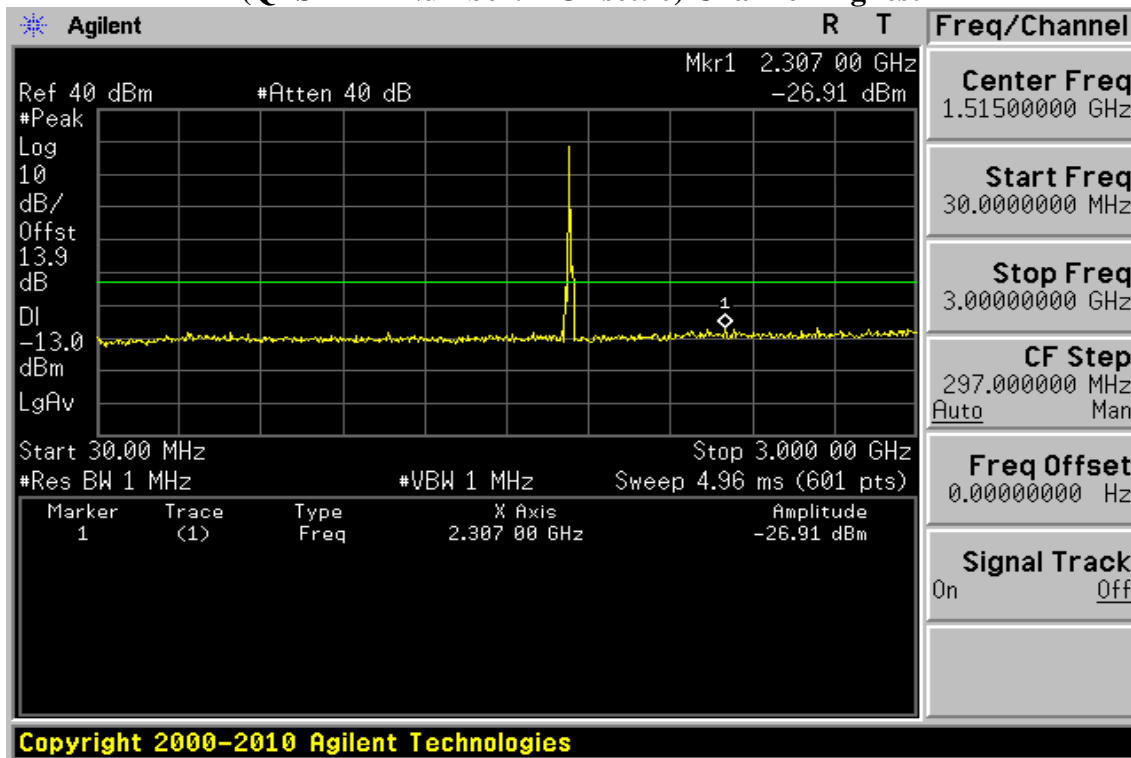
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Figure 10-118: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –15MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1717.5 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	---
3435.00	H	---	-13.00	---
5152.50	H	---	-13.00	---
6870.00	H	---	-13.00	---
8587.50	H	---	-13.00	---
10305.00	H	---	-13.00	---
12022.50	H	---	-13.00	---
13682.00	S	-20.57	-13.00	7.57
13740.00	H	---	-13.00	---
15457.50	H	---	-13.00	---
17175.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13568.00	S	-20.55	-13.00	7.55
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1747.5MHz 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	---
3495.00	H	---	-13.00	---
5242.50	H	---	-13.00	---
6990.00	H	---	-13.00	---
8737.50	H	---	-13.00	---
10485.00	H	---	-13.00	---
12232.50	H	---	-13.00	---
13767.00	S	-19.15	-13.00	6.15
13980.00	H	---	-13.00	---
15727.50	H	---	-13.00	---
17475.00	H	---	-13.00	---

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

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Figure 10-119: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

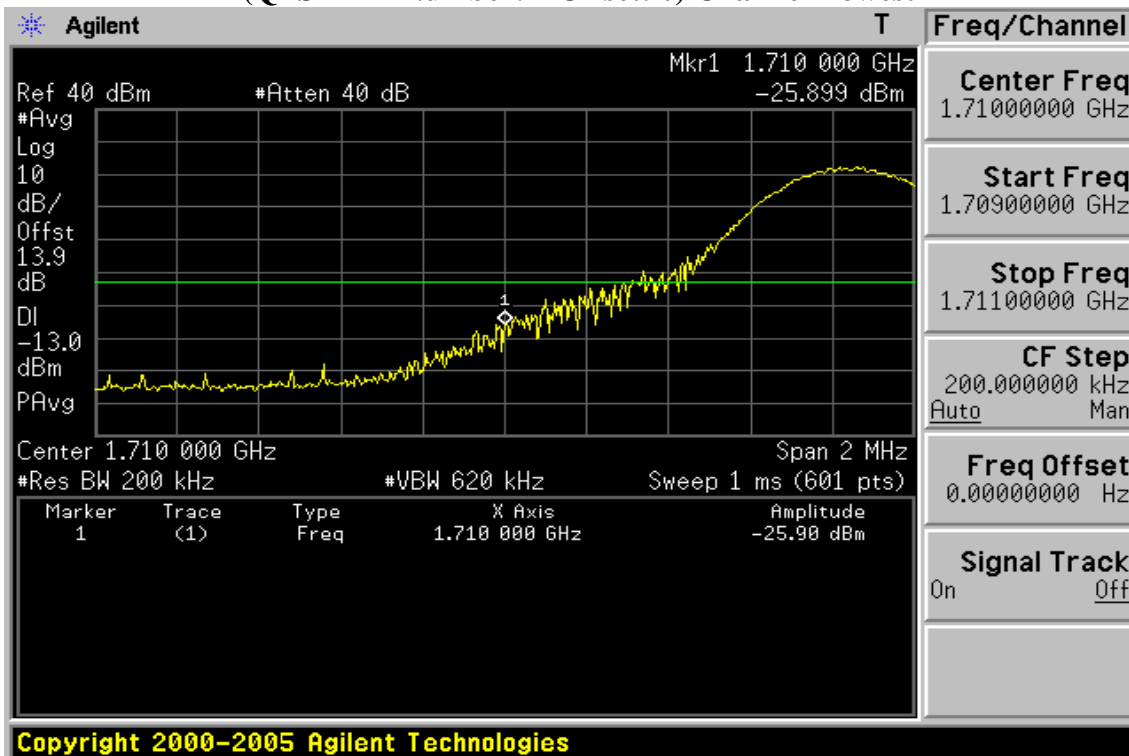
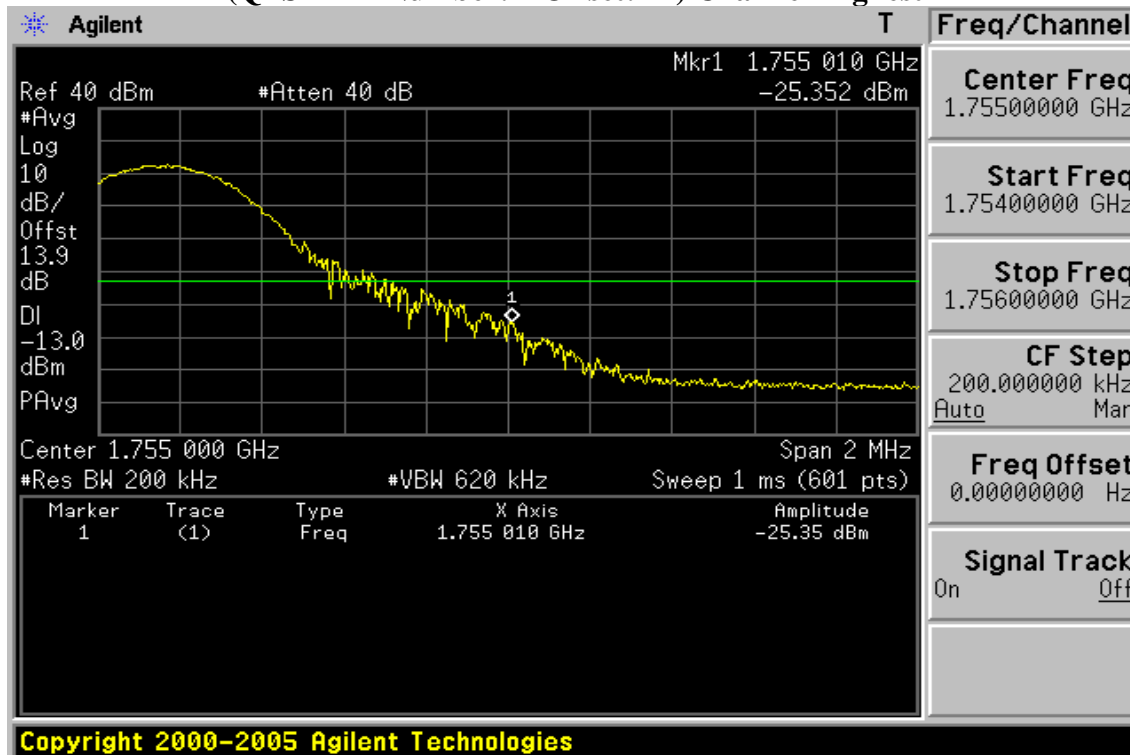


Figure 10-120: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Highest



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Band edge emission at antenna terminals –15MHz BW LTE-Band 4

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

Test Mode 15MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-25.90	-13.00	12.90
1755.010	-25.35	-13.00	12.35

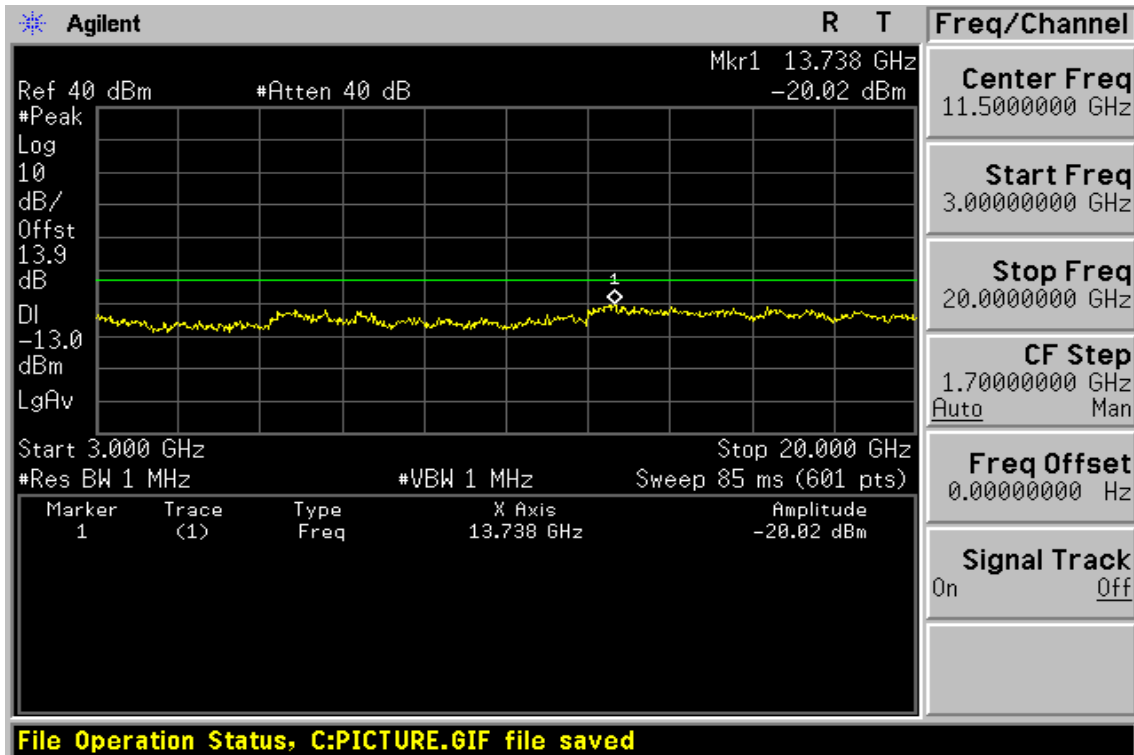
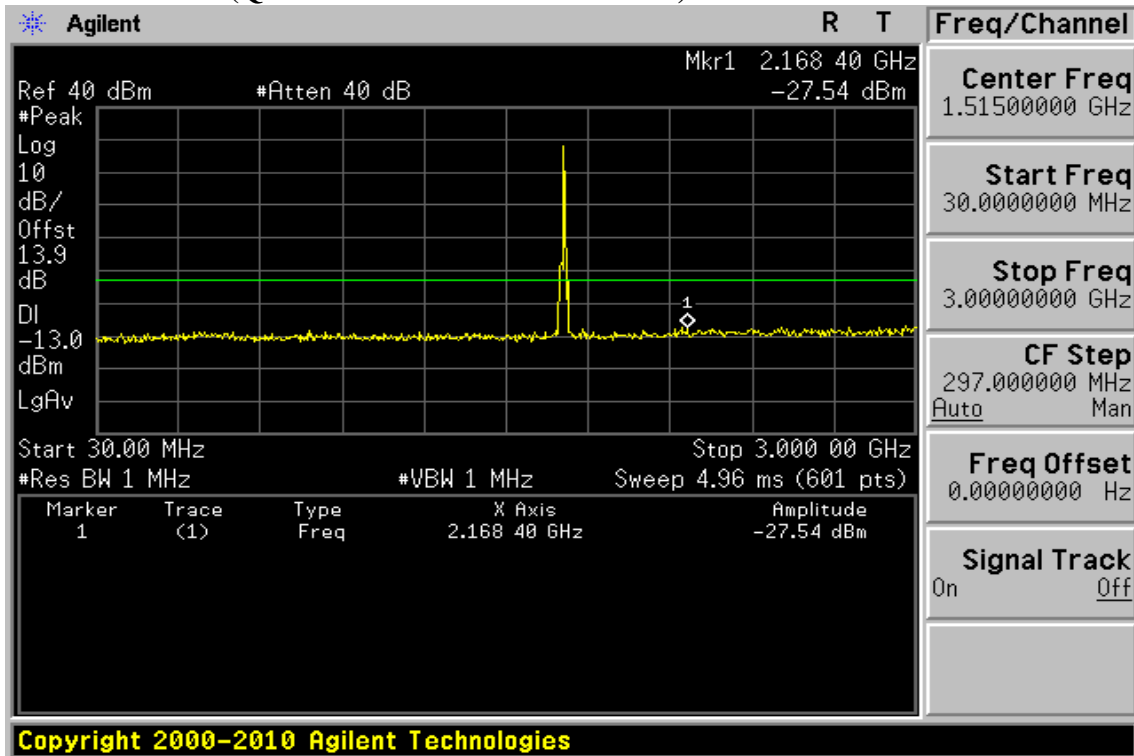
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Figure 10-121: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Lowest



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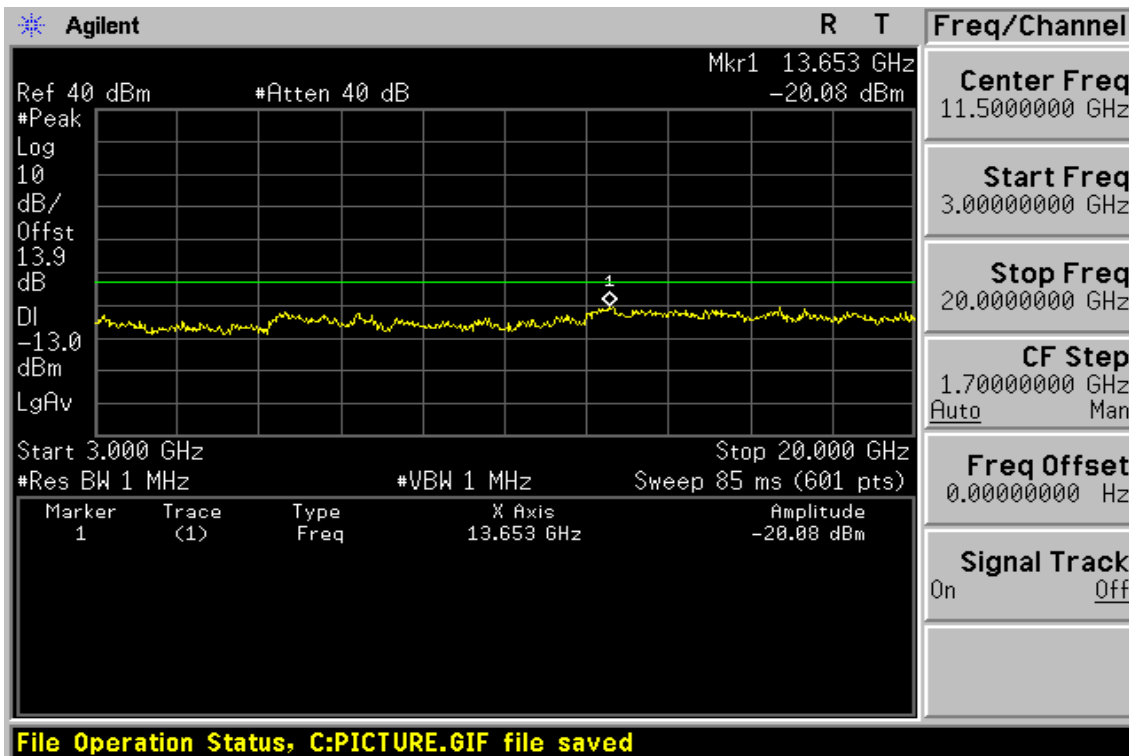
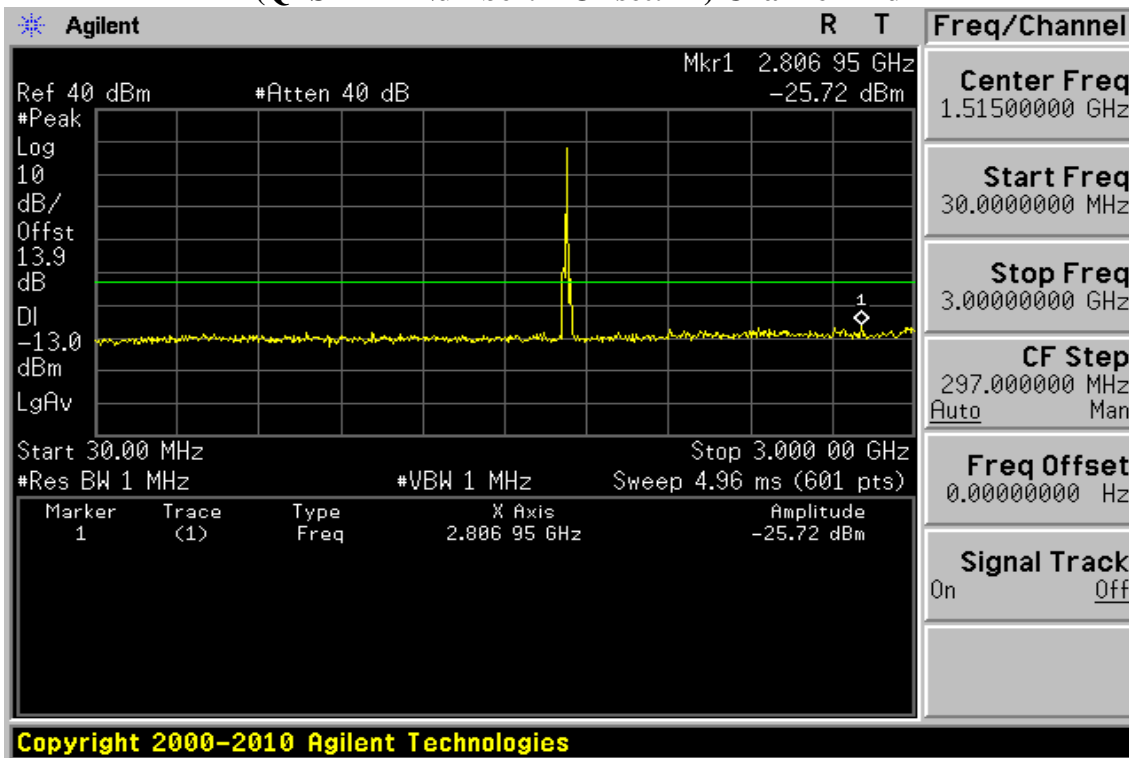
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Figure 10-122: Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Mid



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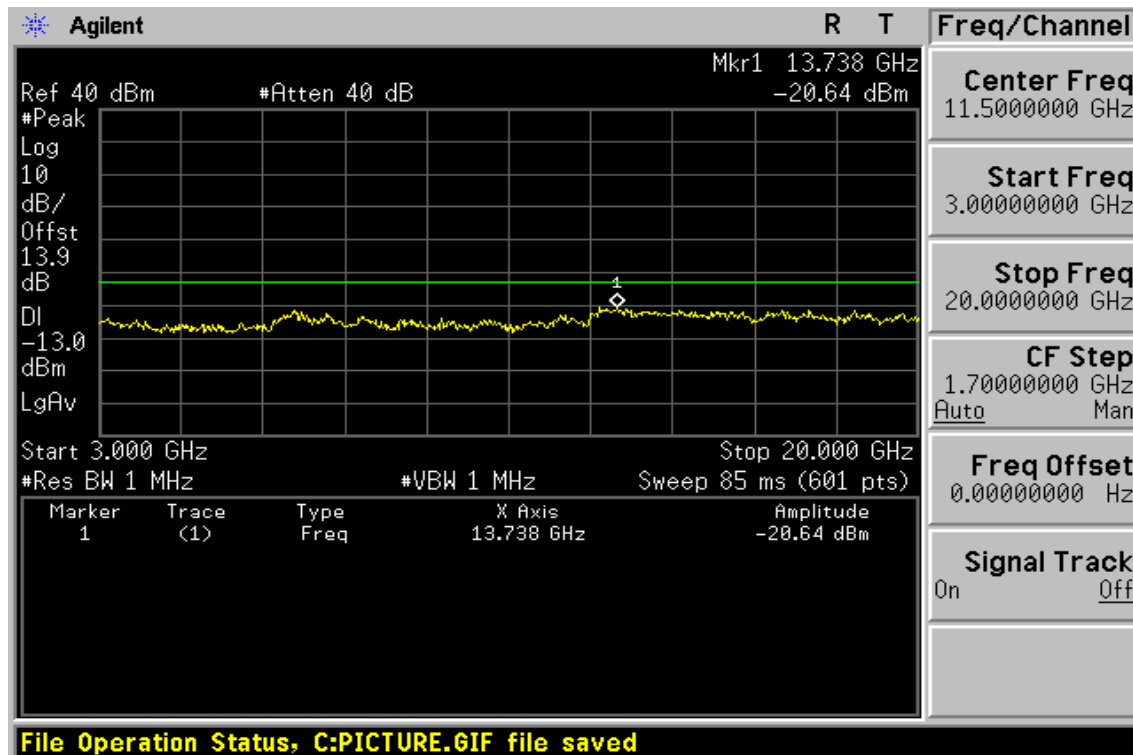
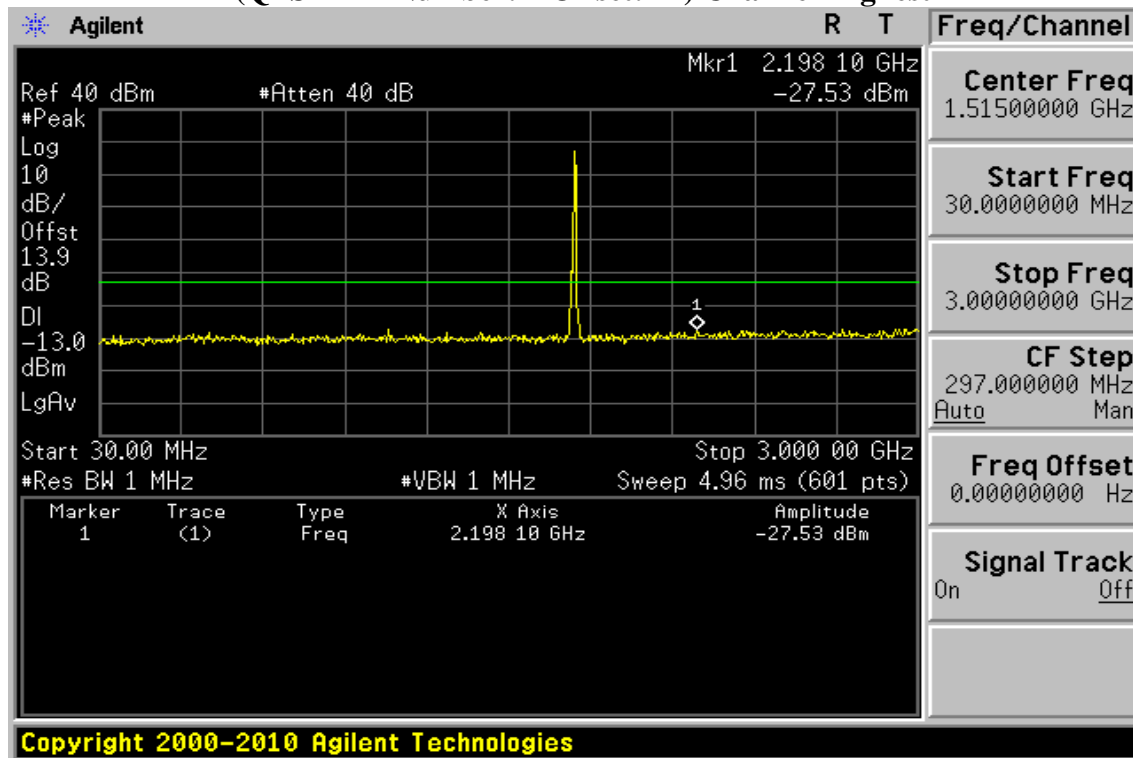
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Figure 10-123: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Highest



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Out of Band emission at antenna terminals –15MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 74)

Fundamental Frequency :1717.5 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	---
3435.00	H	---	-13.00	---
5152.50	H	---	-13.00	---
6870.00	H	---	-13.00	---
8587.50	H	---	-13.00	---
10305.00	H	---	-13.00	---
12022.50	H	---	-13.00	---
13738.00	S	-20.02	-13.00	7.02
13740.00	H	---	-13.00	---
15457.50	H	---	-13.00	---
17175.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13653.00	S	-20.08	-13.00	7.08
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1747.5MHz 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	---
3495.00	H	---	-13.00	---
5242.50	H	---	-13.00	---
6990.00	H	---	-13.00	---
8737.50	H	---	-13.00	---
10485.00	H	---	-13.00	---
12232.50	H	---	-13.00	---
13738.00	S	-20.64	-13.00	7.64
13980.00	H	---	-13.00	---
15727.50	H	---	-13.00	---
17475.00	H	---	-13.00	---

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

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Figure 10-124: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Lowest

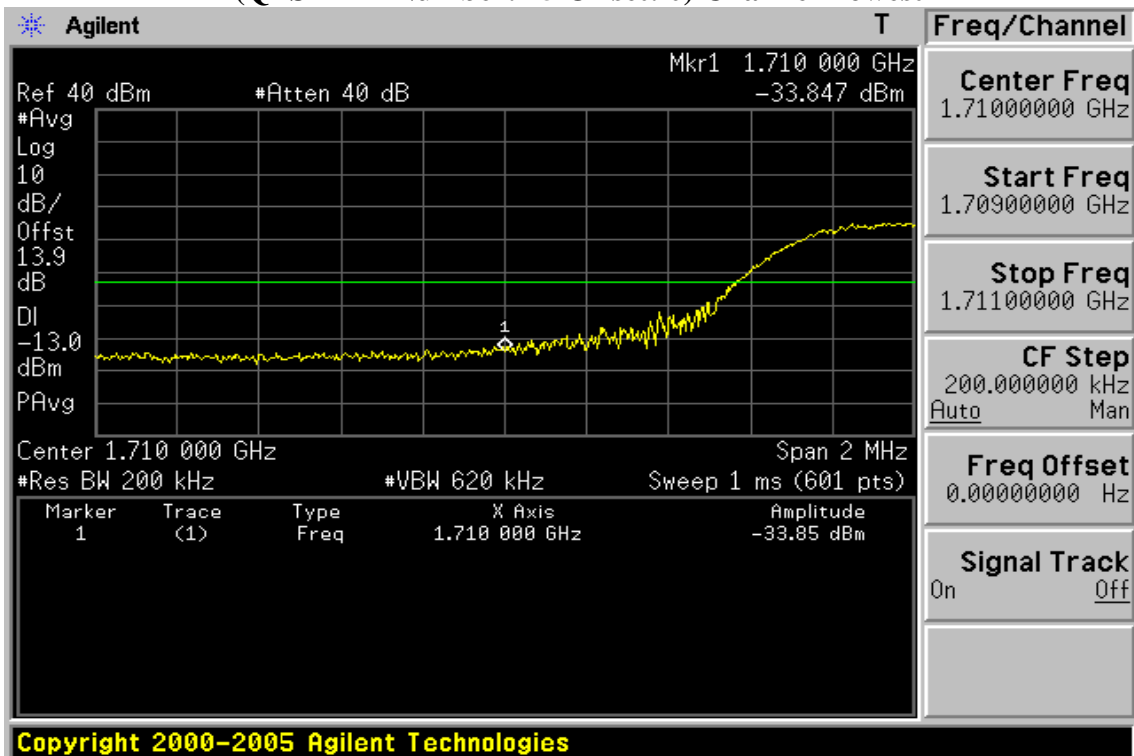
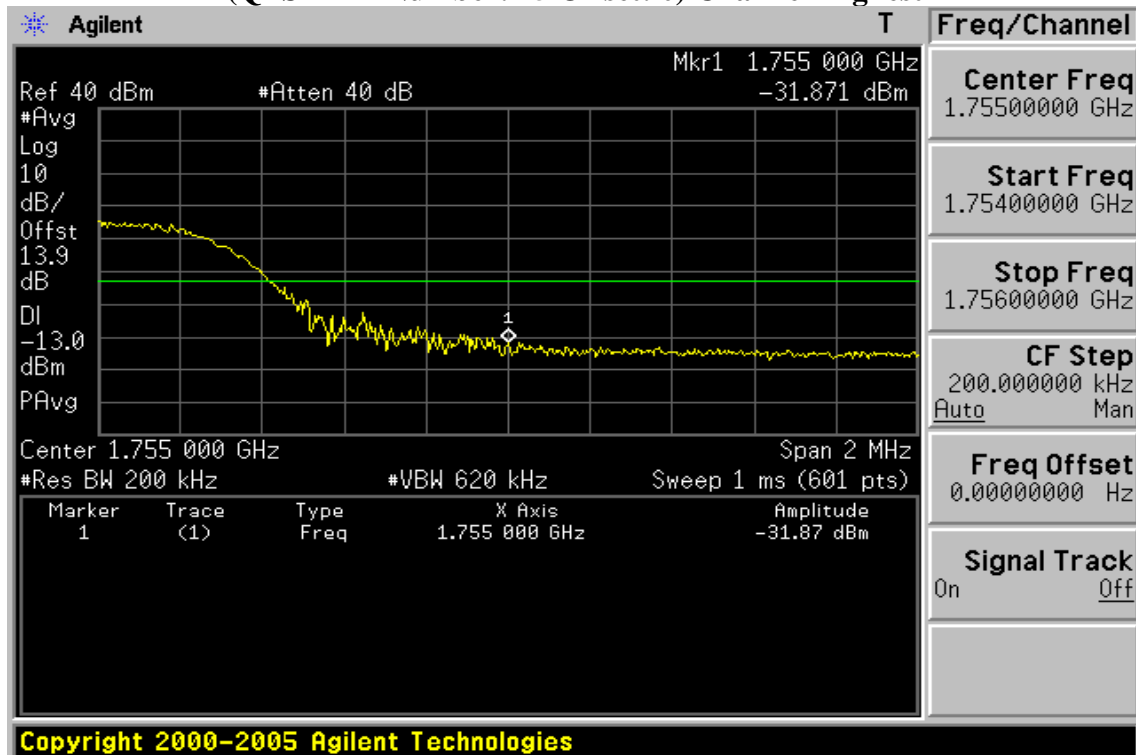


Figure 10-125: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –15MHz BW LTE-Band 4

(QPSK RB Number: 75 Offset: 0)

Test Mode 15MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-33.58	-13.00	20.58
1755.000	-31.87	-13.00	18.87

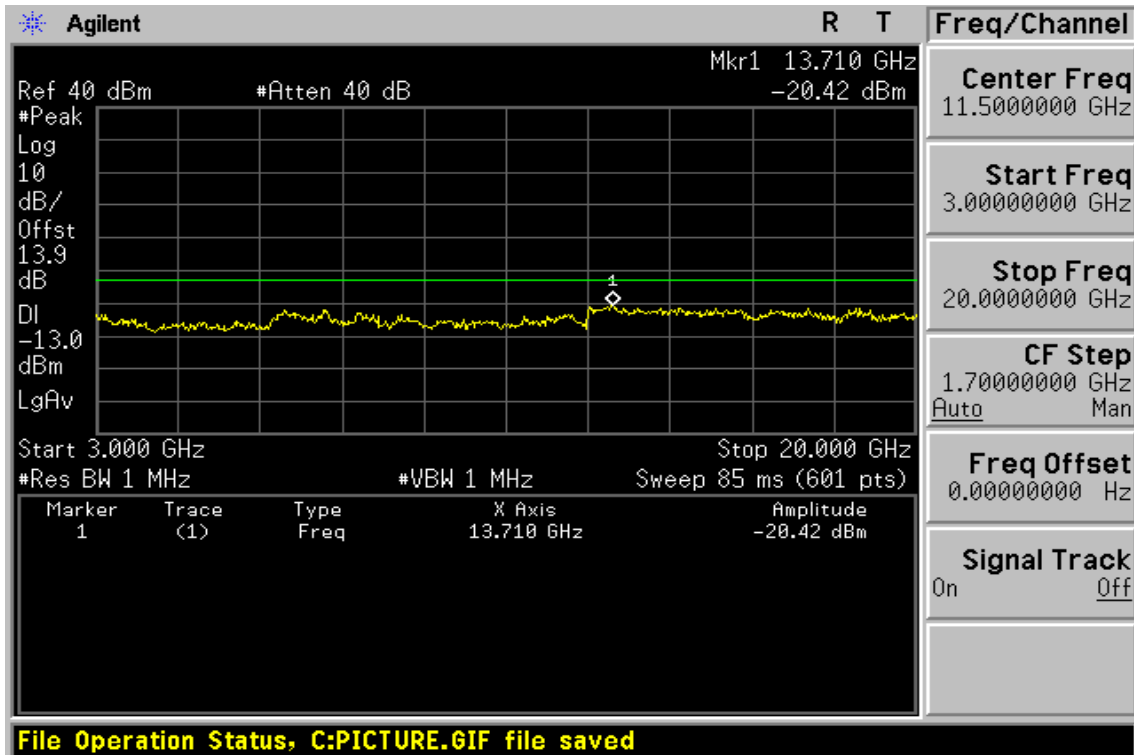
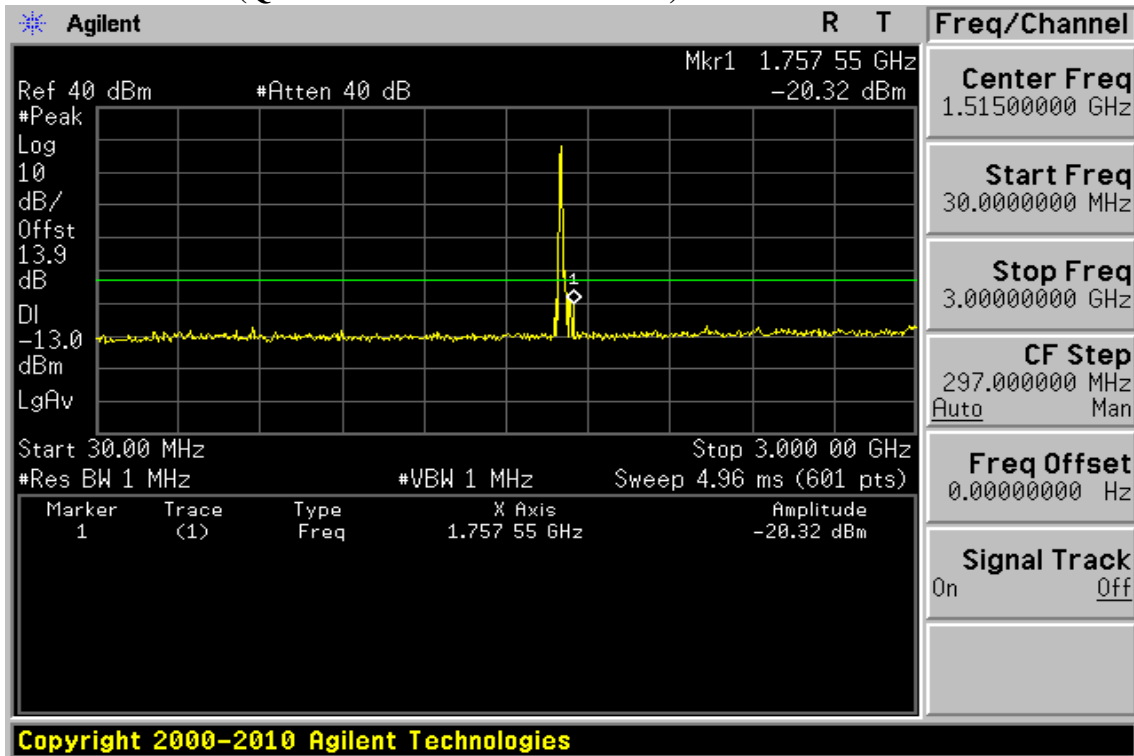
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Figure 10-126: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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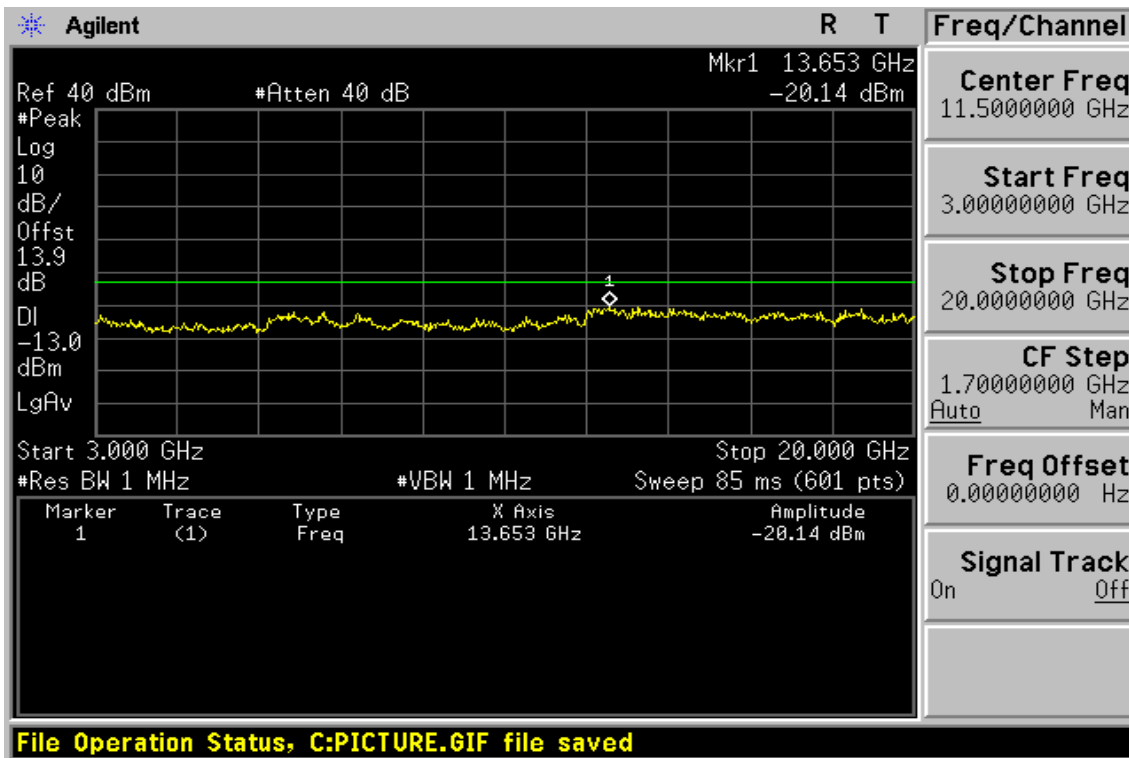
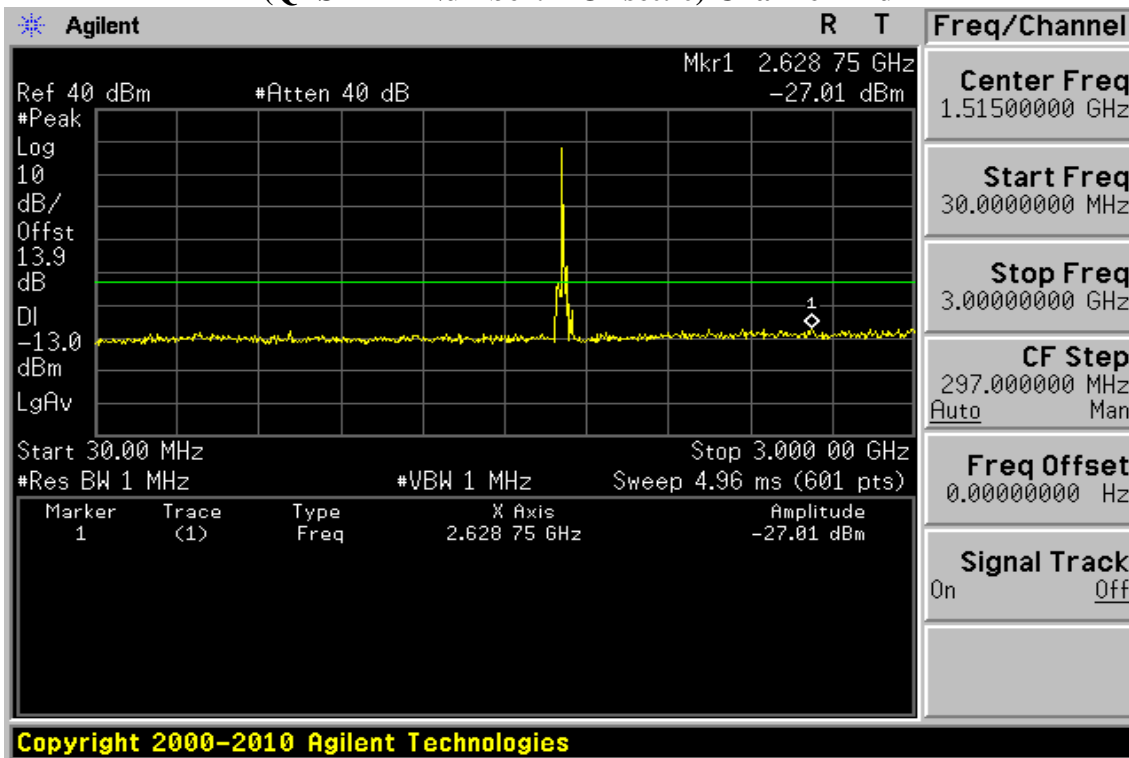
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Figure 10-127: Out of Band emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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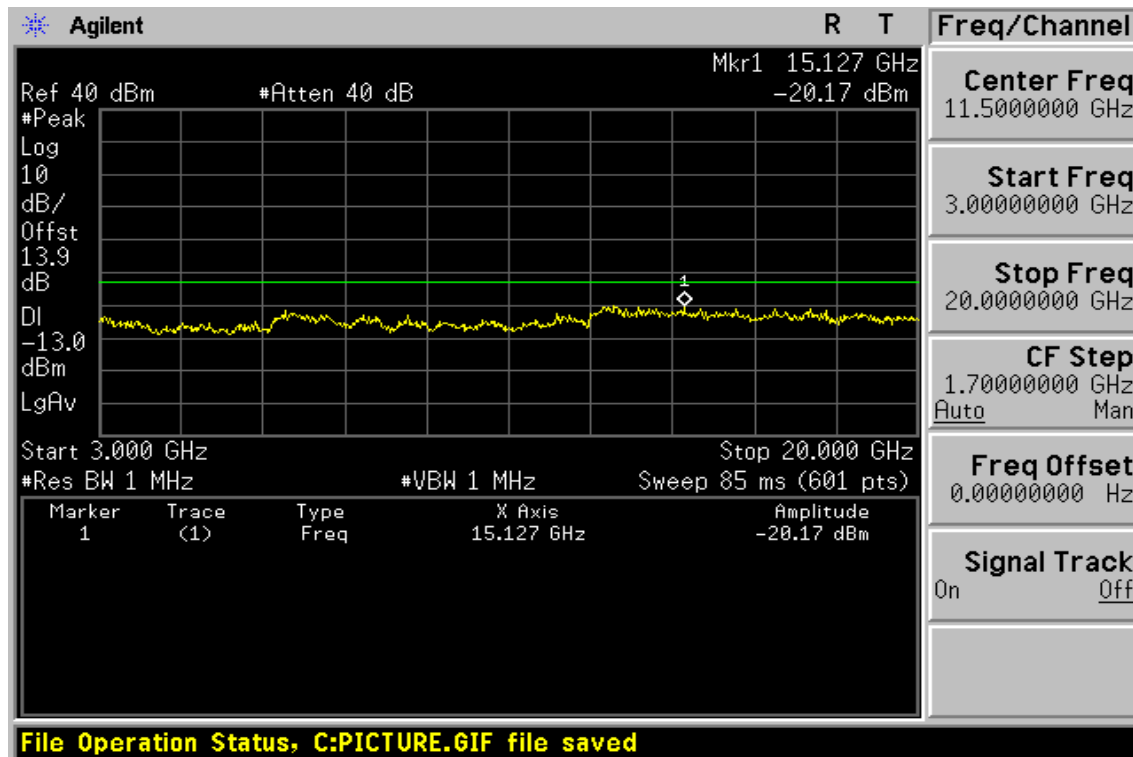
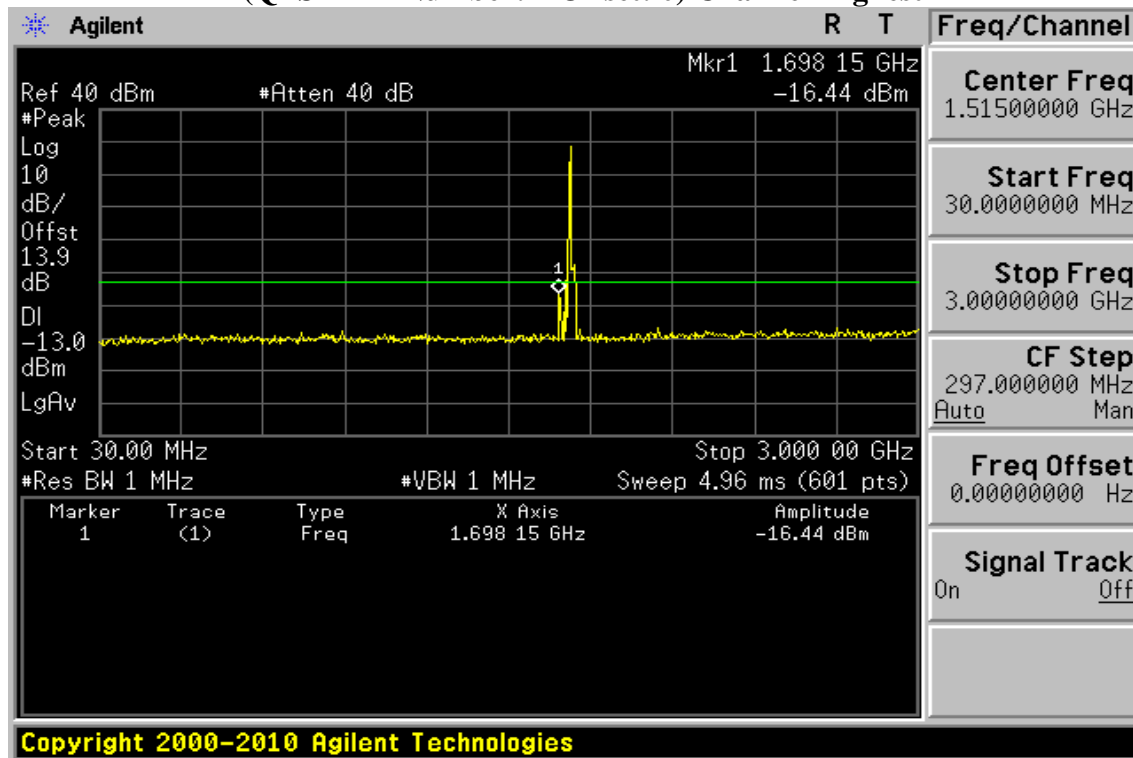
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Figure 10-128: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –20MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1720.0 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	---
3440.00	H	---	-13.00	---
5160.00	H	---	-13.00	---
6880.00	H	---	-13.00	---
8600.00	H	---	-13.00	---
10320.00	H	---	-13.00	---
12040.00	H	---	-13.00	---
13710.00	S	-20.42	-13.00	7.42
13760.00	H	---	-13.00	---
15480.00	H	---	-13.00	---
17200.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13653.00	S	-20.14	-13.00	7.14
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1745MHz 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	---
3490.00	H	---	-13.00	---
5235.00	H	---	-13.00	---
6980.00	H	---	-13.00	---
8725.00	H	---	-13.00	---
10470.00	H	---	-13.00	---
12215.00	H	---	-13.00	---
13960.00	H	---	-13.00	---
15127.00	S	-20.17	-13.00	7.17
15705.00	H	---	-13.00	---
17450.00	H	---	-13.00	---

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

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Figure 10-129: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

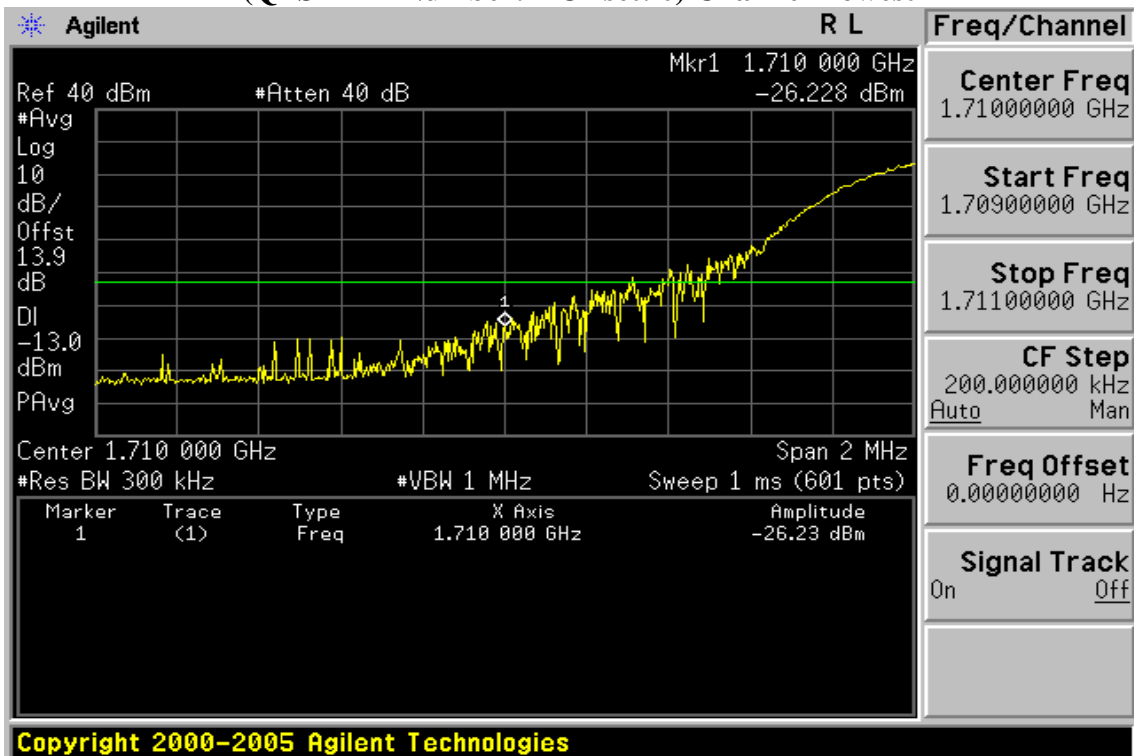
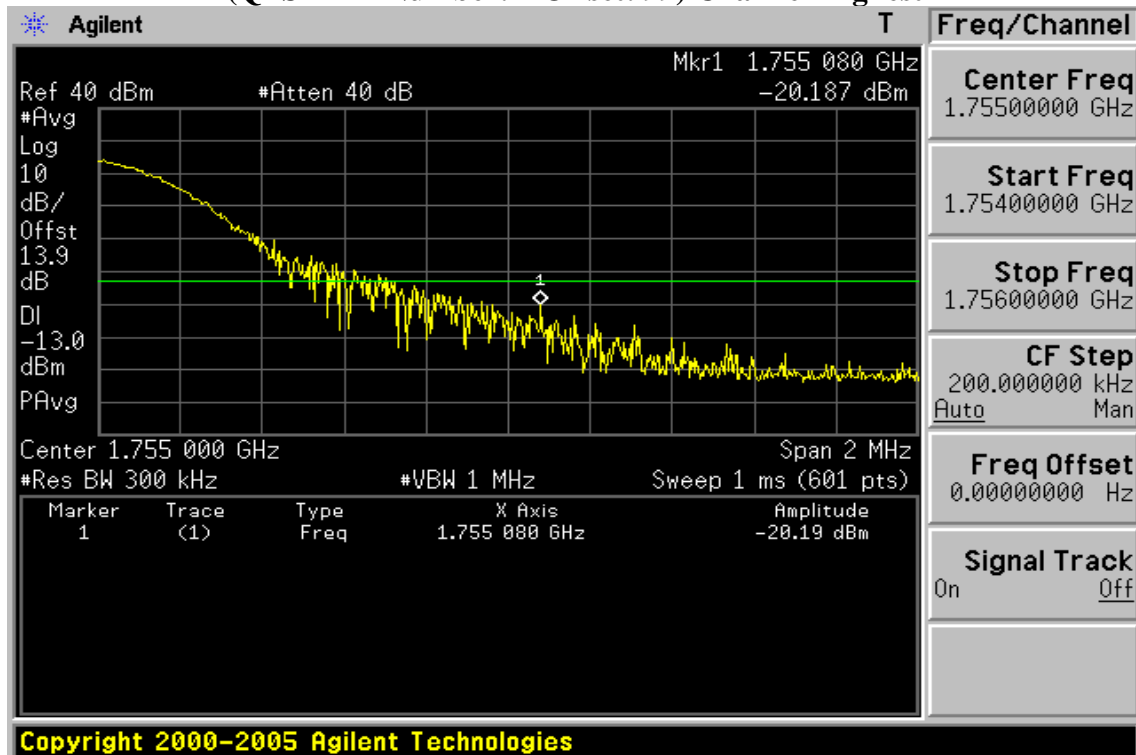


Figure 10-130: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Highest



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Band edge emission at antenna terminals –20MHz BW LTE-Band 4**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99)**

Test Mode 20MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-26.23	-13.00	13.23
1755.080	-20.19	-13.00	7.19

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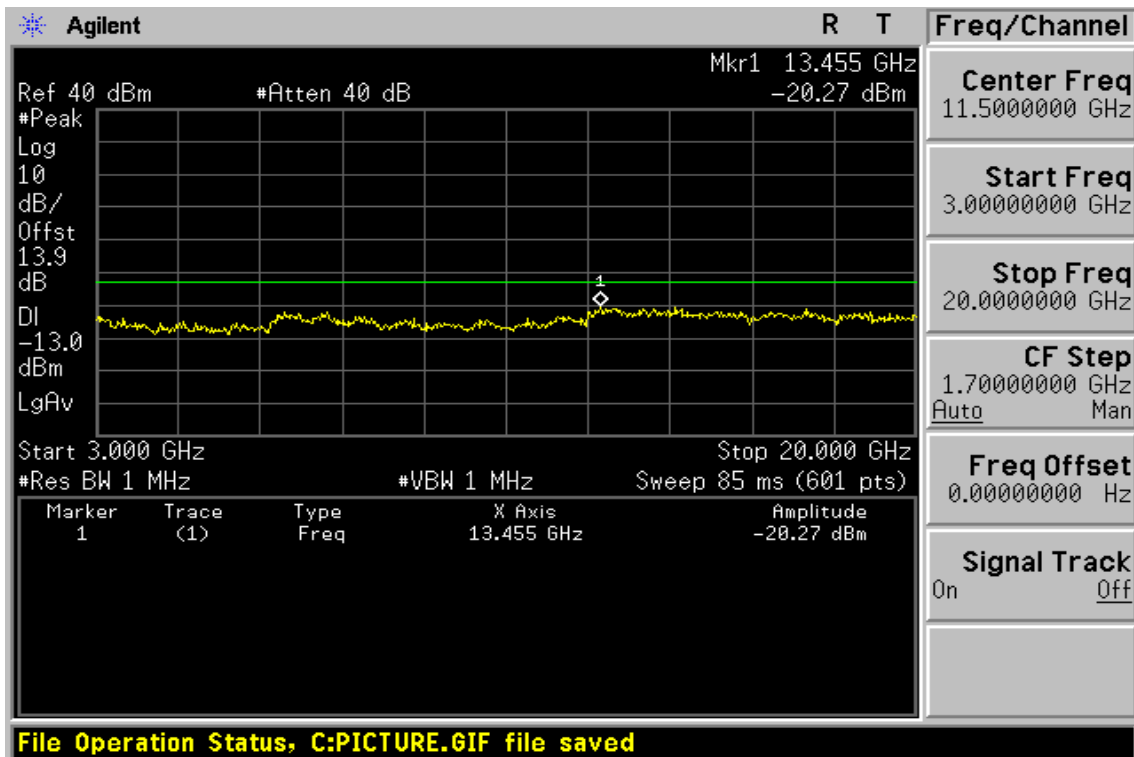
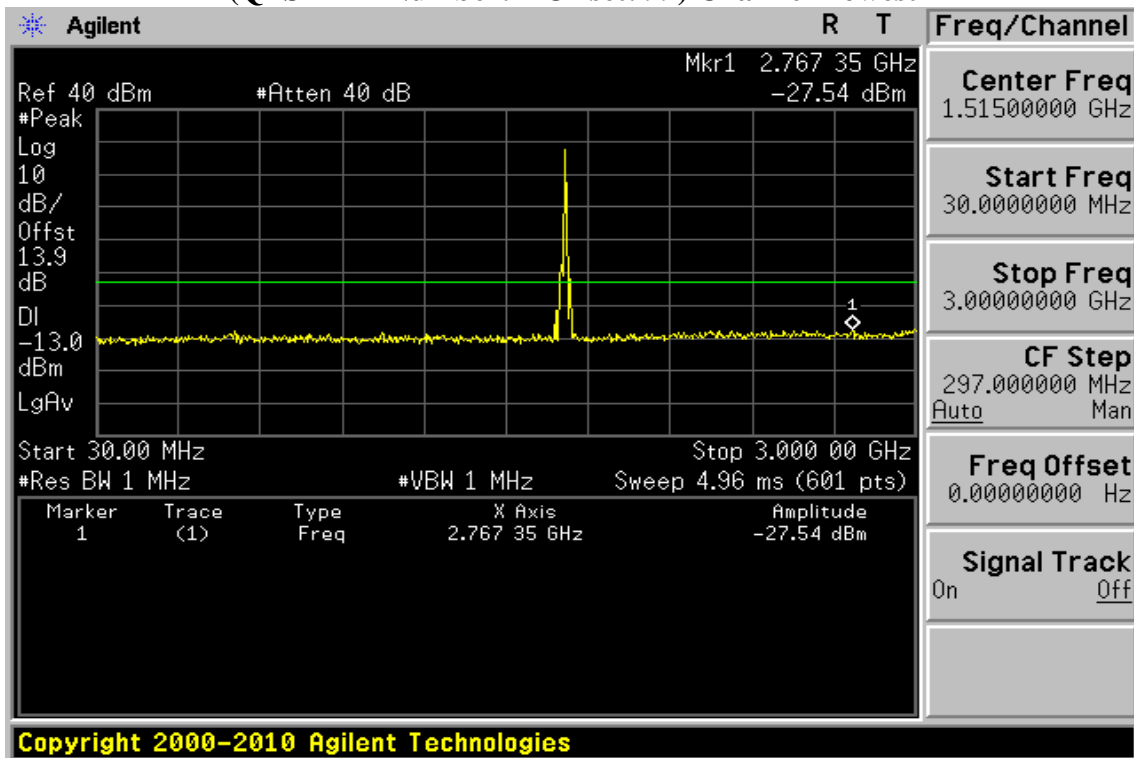
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Figure 10-131: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Lowest



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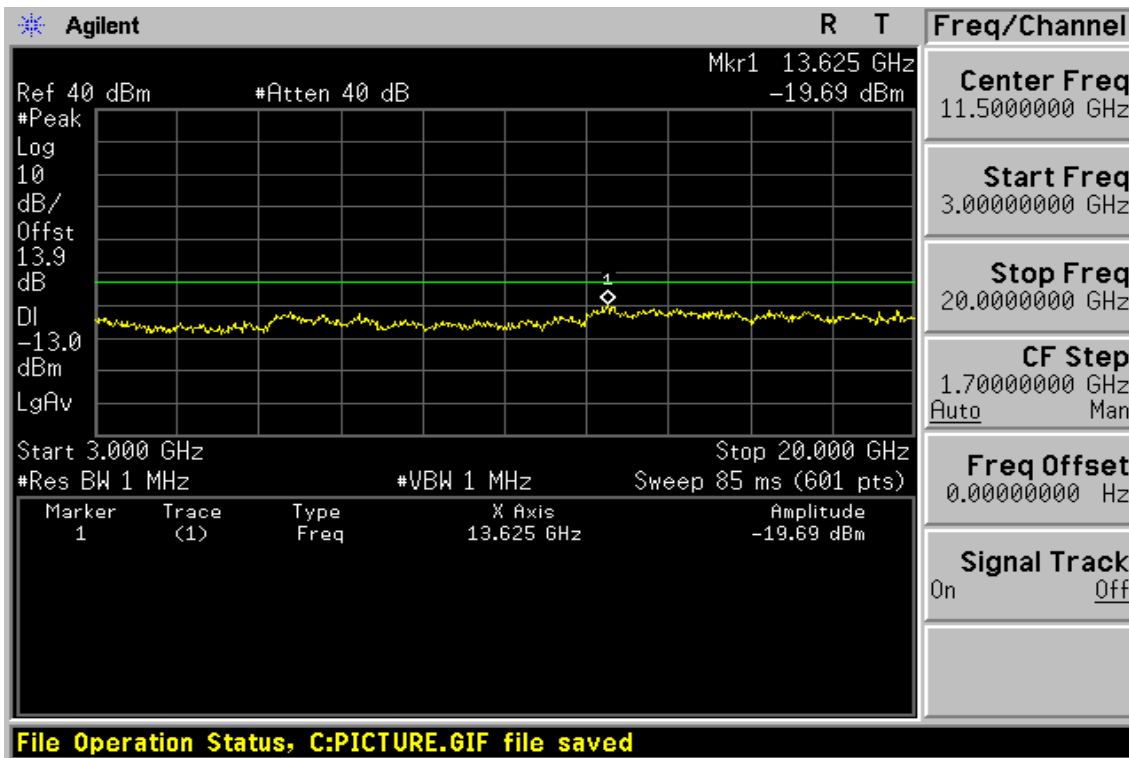
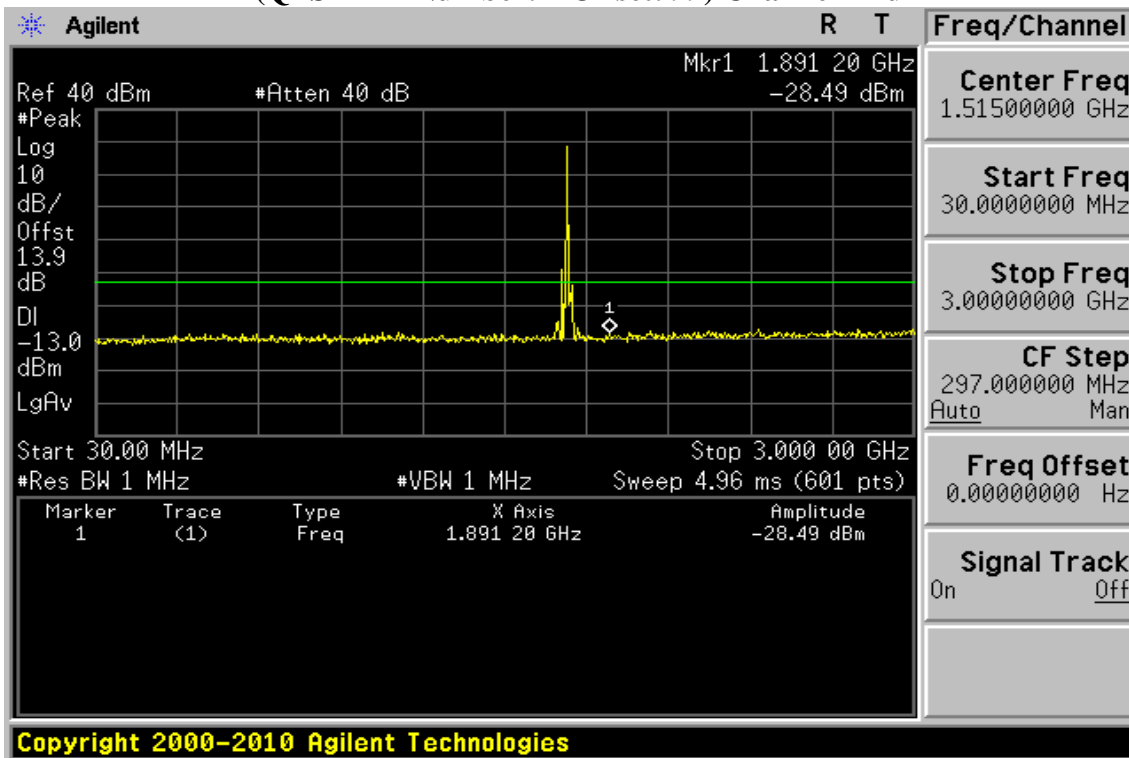
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Figure 10-132: Out of Band emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Mid



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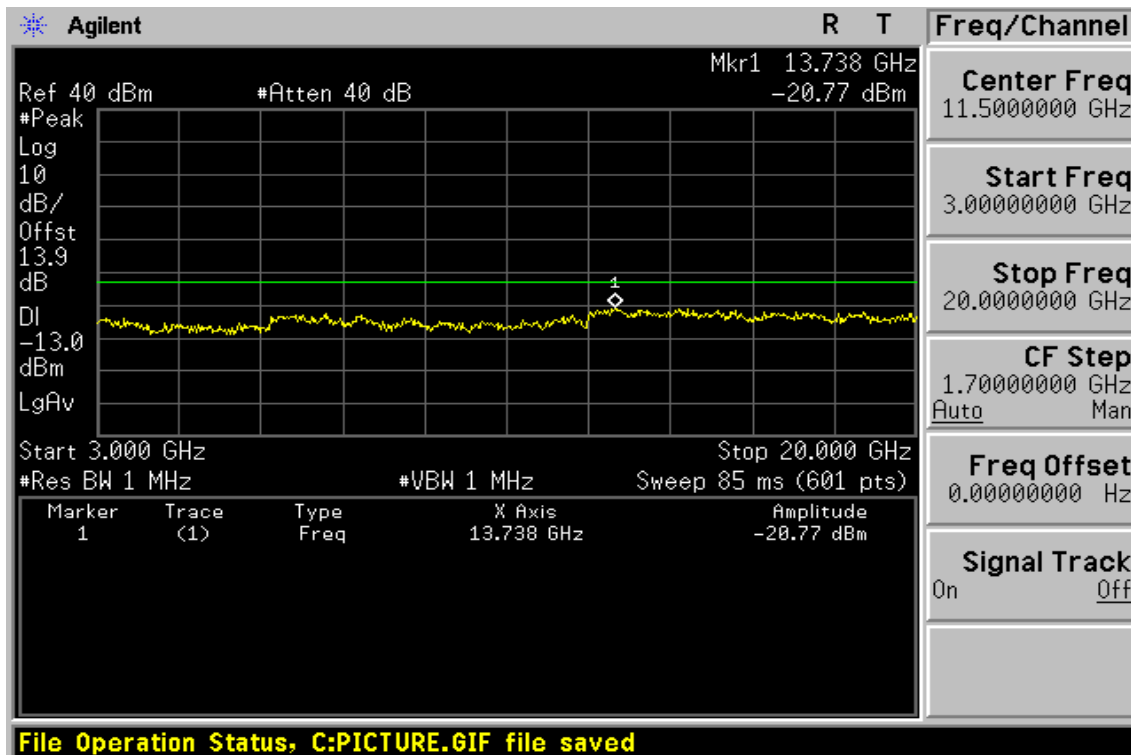
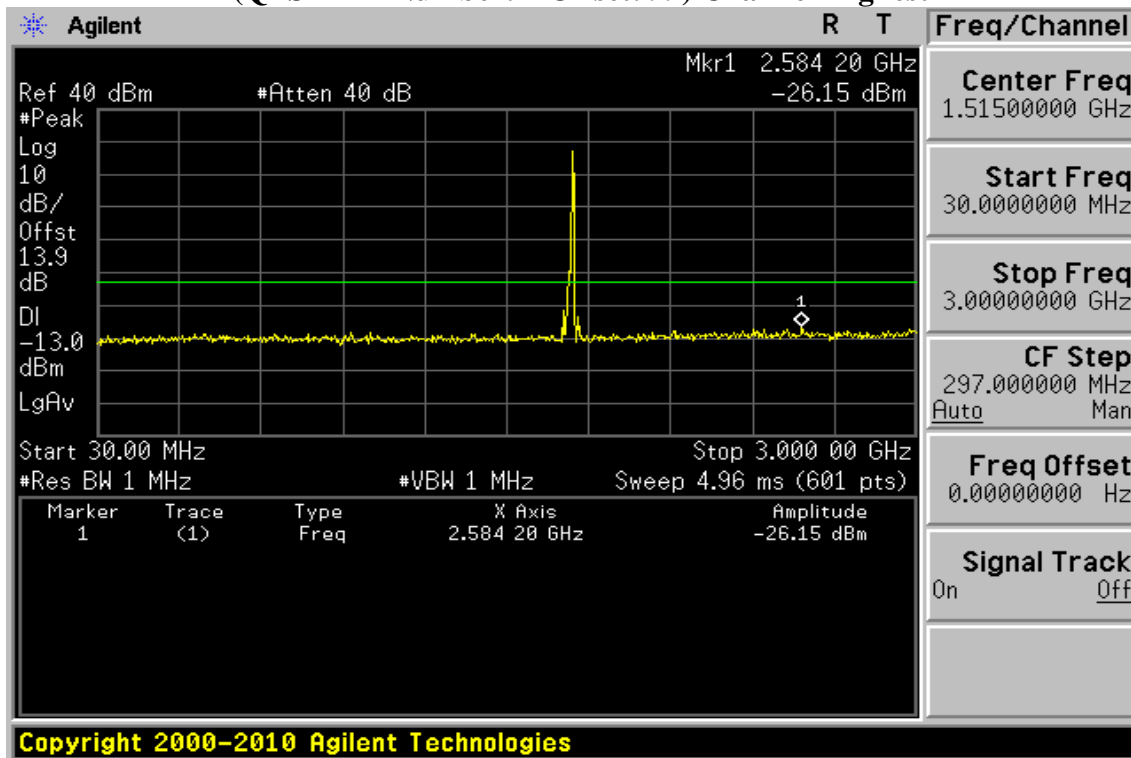
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Figure 10-133: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Highest



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Out of Band emission at antenna terminals –20MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 99)

Fundamental Frequency :1720 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	---
3440.00	H	---	-13.00	---
5160.00	H	---	-13.00	---
6880.00	H	---	-13.00	---
8600.00	H	---	-13.00	---
10320.00	H	---	-13.00	---
12040.00	H	---	-13.00	---
13455.00	S	-20.27	-13.00	7.27
13760.00	H	---	-13.00	---
15480.00	H	---	-13.00	---
17200.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 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	---
3465.00	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13625.00	S	-19.69	-13.00	6.69
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1745 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	---
3490.00	H	---	-13.00	---
5235.00	H	---	-13.00	---
6980.00	H	---	-13.00	---
8725.00	H	---	-13.00	---
10470.00	H	---	-13.00	---
12215.00	H	---	-13.00	---
13738.00	S	-20.77	-13.00	7.77
13960.00	H	---	-13.00	---
15705.00	H	---	-13.00	---
17450.00	H	---	-13.00	---

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

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Figure 10-134: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Lowest

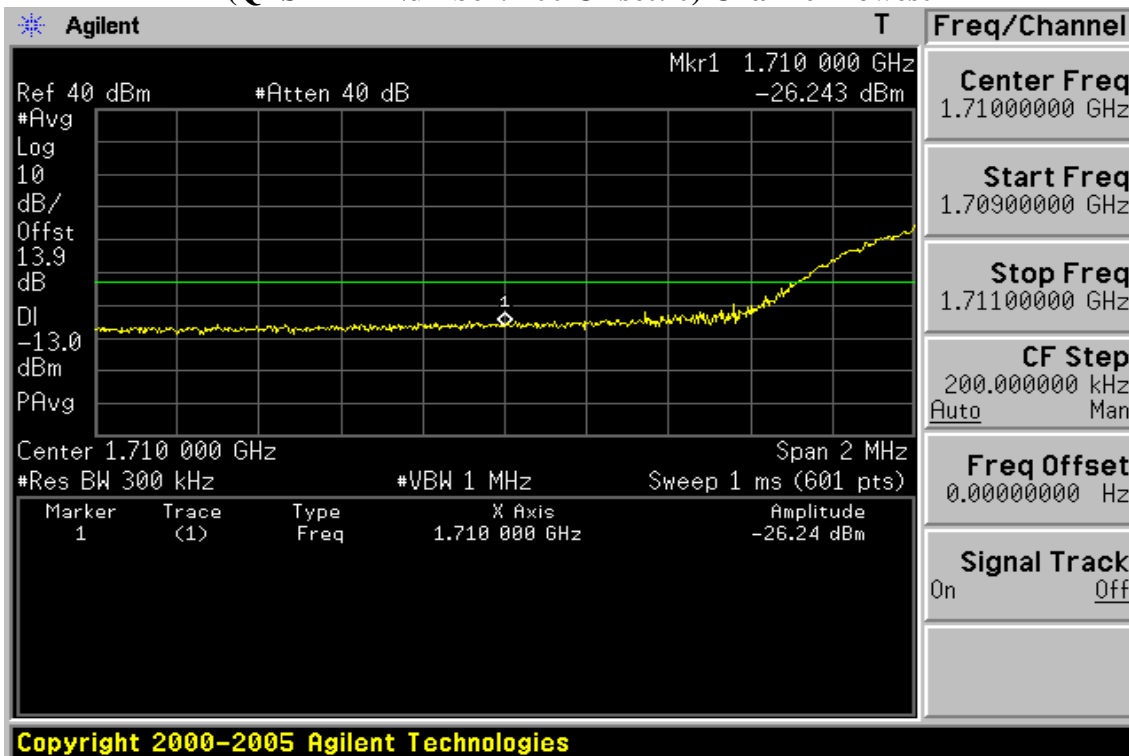
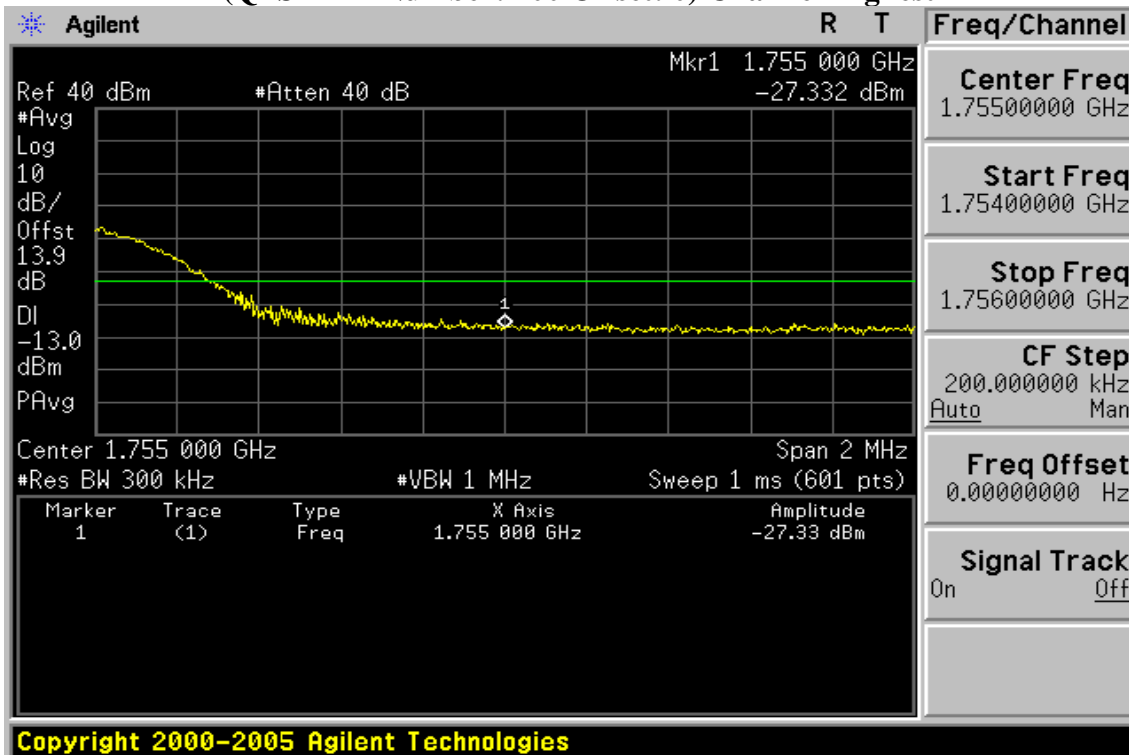


Figure 10-135: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –20MHz BW LTE-Band 4

(QPSK RB Number: 100 Offset: 0)

Test Mode 20MHz BW LTE-Band 4 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1710.000	-26.24	-13.00	13.24
1755.000	-27.33	-13.00	14.33

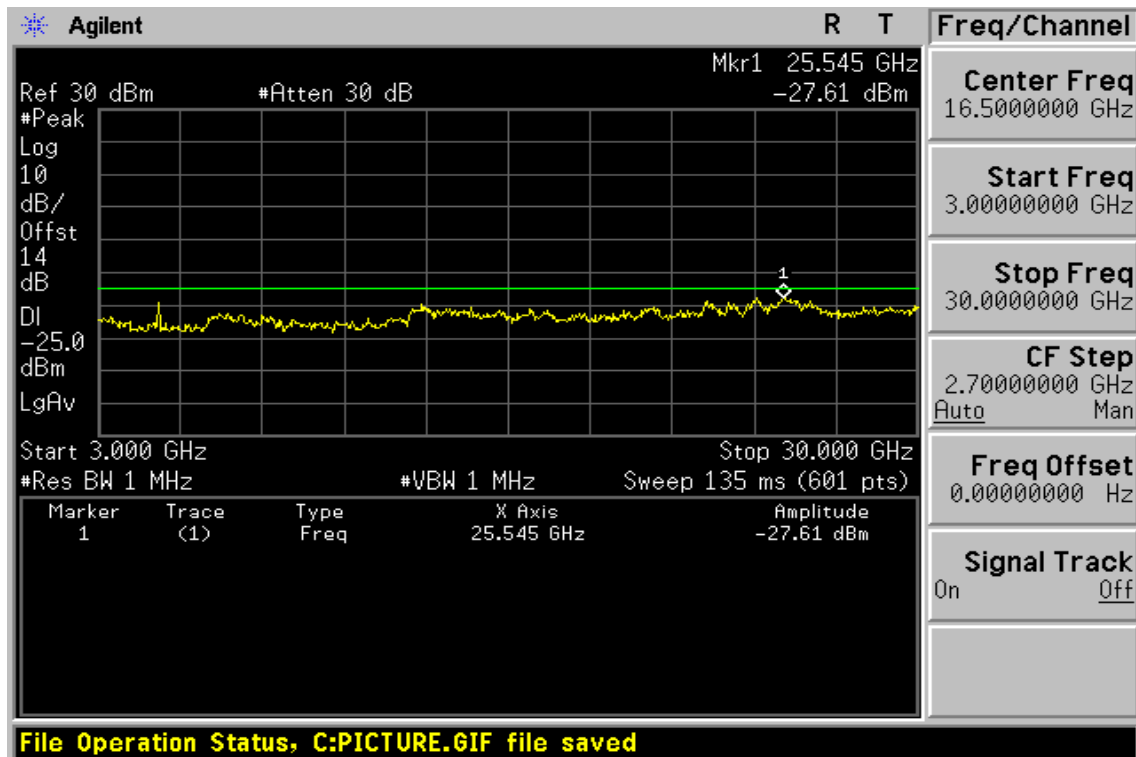
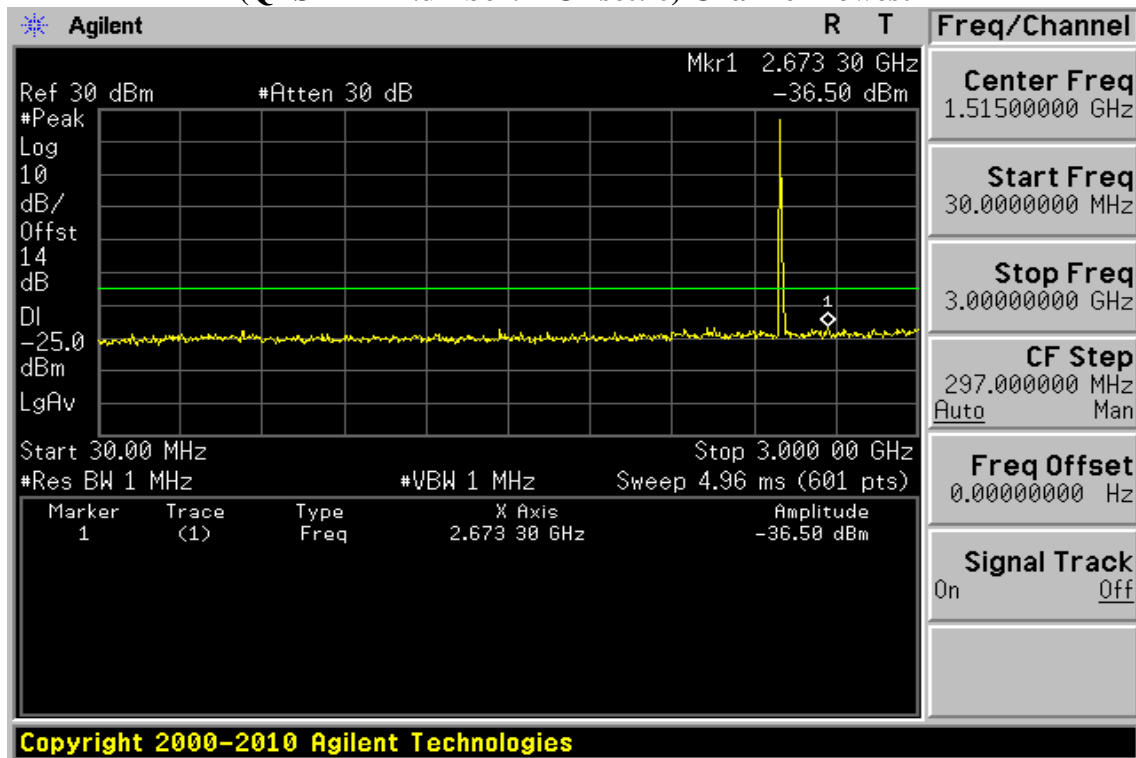
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Figure 10-136: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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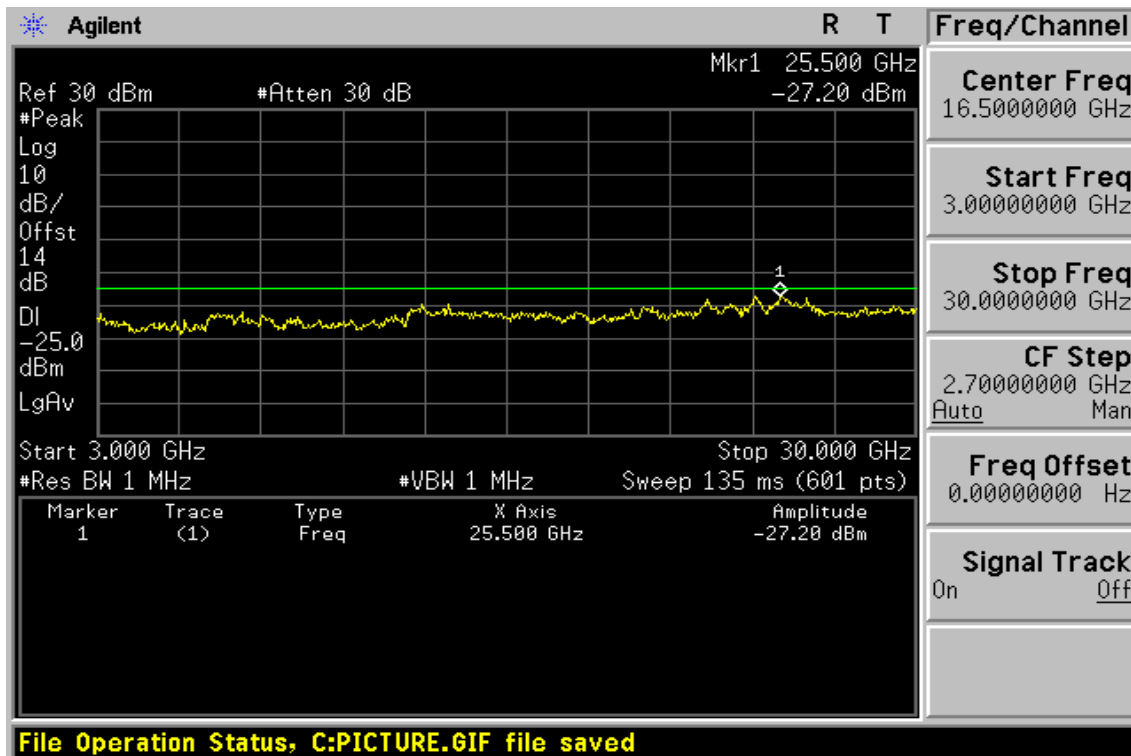
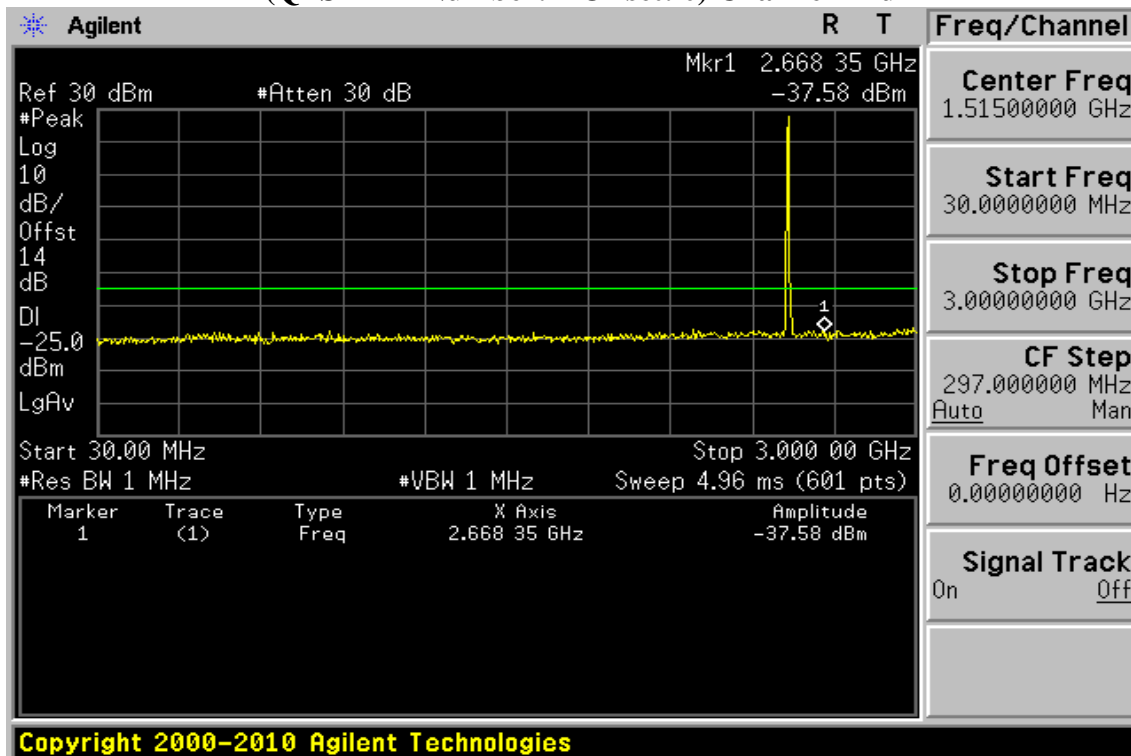
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Figure 10-137: Out of Band emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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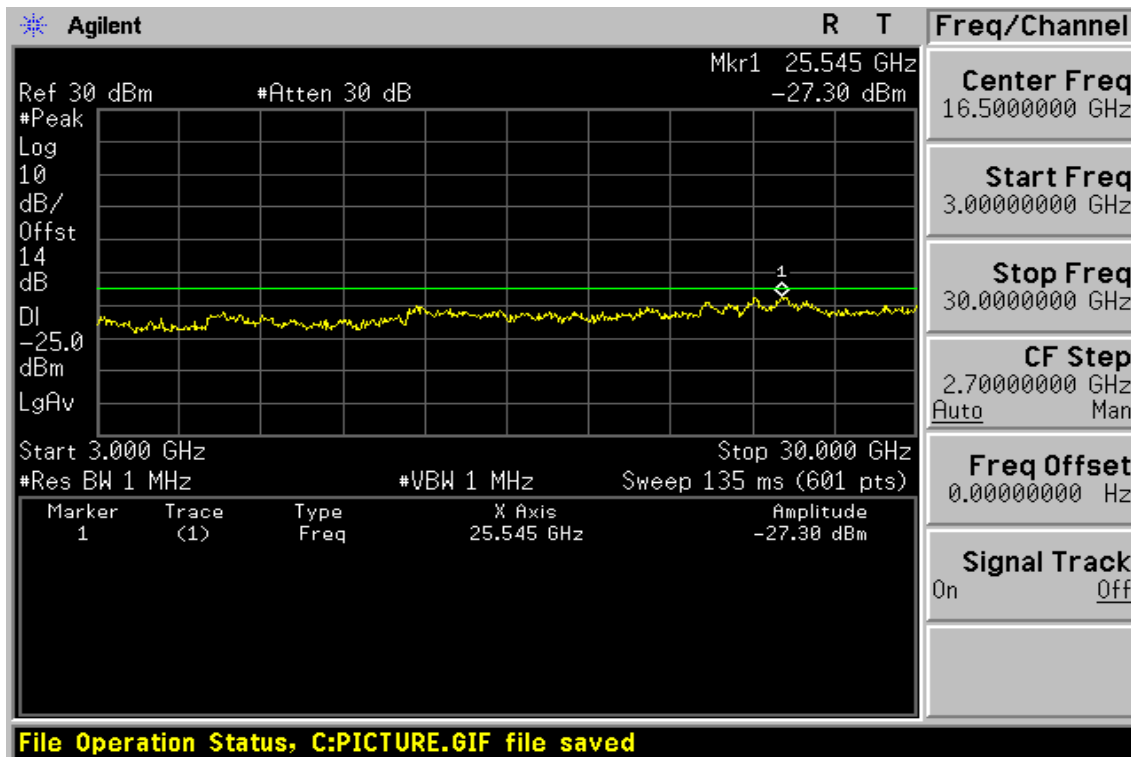
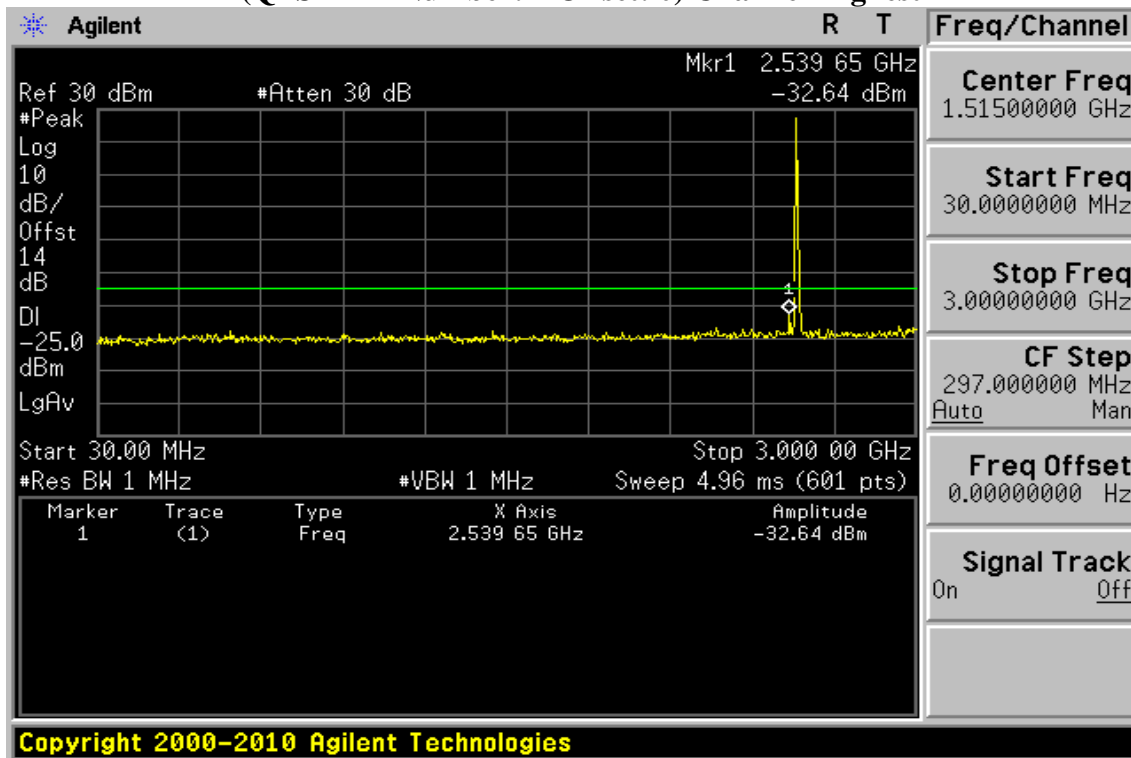
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Figure 10-138: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –5MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2502.5 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	---
5005.00	H	---	-13.00	---
7507.50	H	---	-13.00	---
10010.00	H	---	-13.00	---
12512.50	H	---	-13.00	---
15015.00	H	---	-13.00	---
17517.50	H	---	-13.00	---
20020.00	H	---	-13.00	---
22522.50	H	---	-13.00	---
25025.00	H	---	-13.00	---
25545.00	S	-27.61	-13.00	14.61

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

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Fundamental Frequency :2535 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	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25500.00	S	-27.2	-13.00	14.20

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

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Fundamental Frequency :2567.5MHz 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	---
5135.00	H	---	-13.00	---
7702.50	H	---	-13.00	---
10270.00	H	---	-13.00	---
12837.50	H	---	-13.00	---
15405.00	H	---	-13.00	---
17972.50	H	---	-13.00	---
20540.00	H	---	-13.00	---
23107.50	H	---	-13.00	---
25545.00	S	-27.30	-13.00	14.30
25675.00	H	---	-13.00	---

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

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Figure 10-139: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

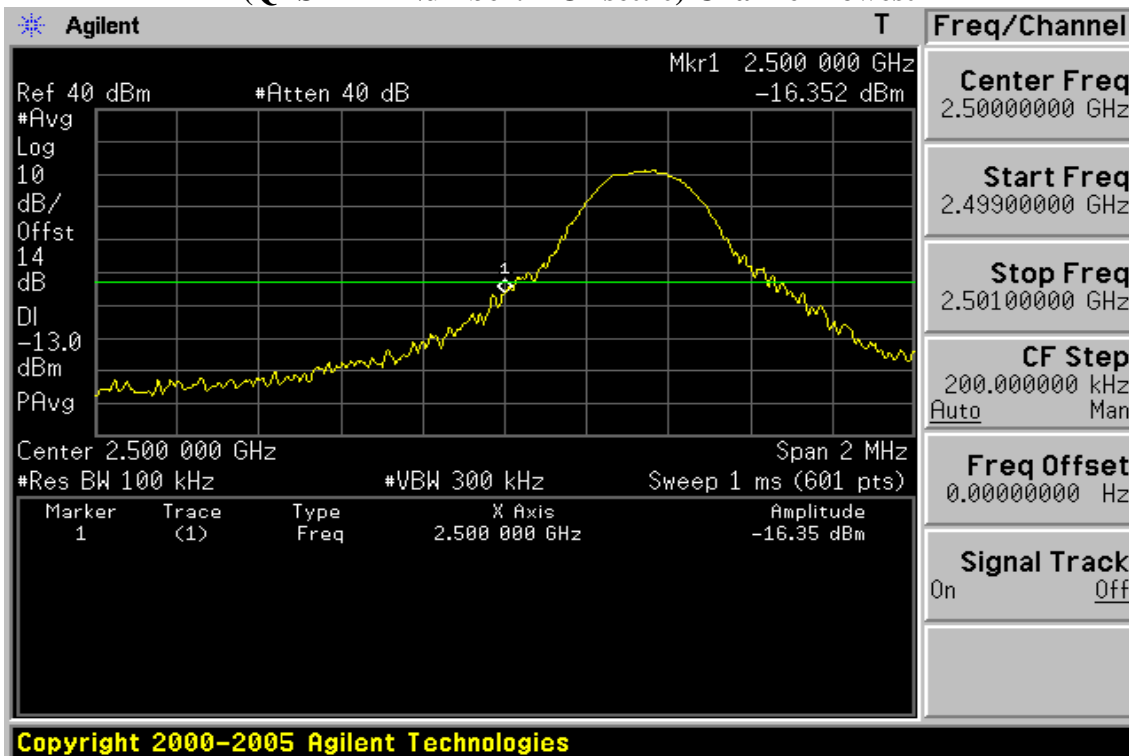
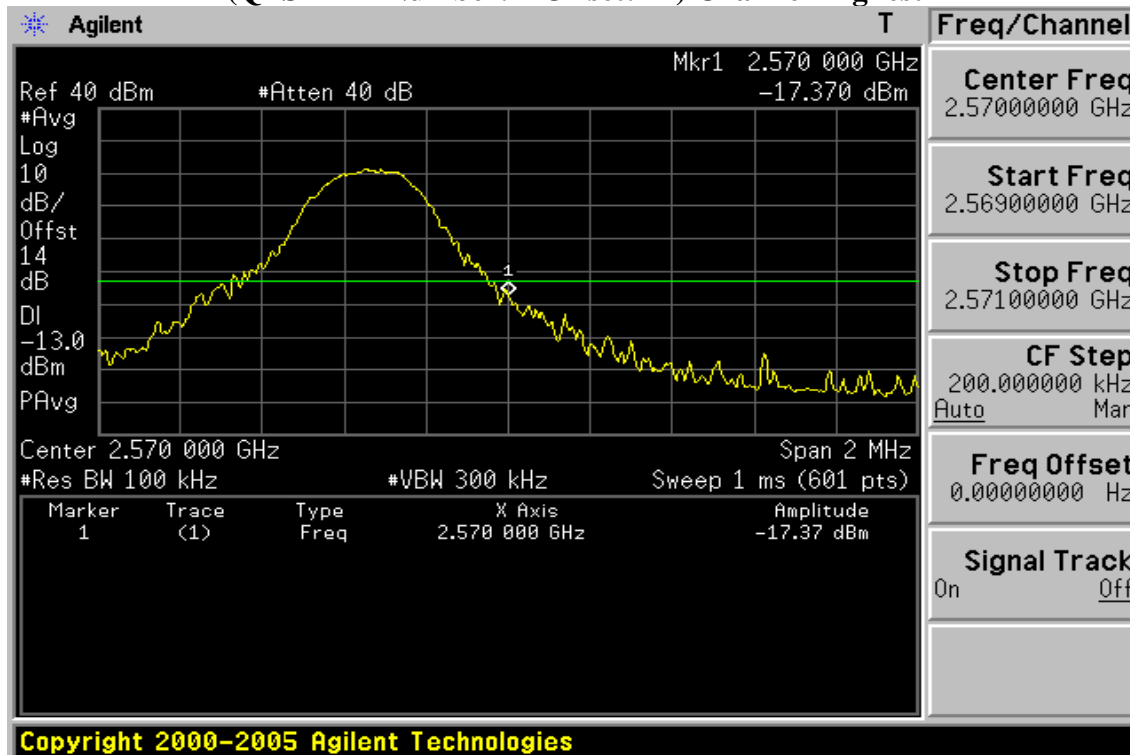


Figure 10-140: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 7

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

Test Mode 5MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-16.35	-13.00	3.35
2570.000	-17.37	-13.00	4.37

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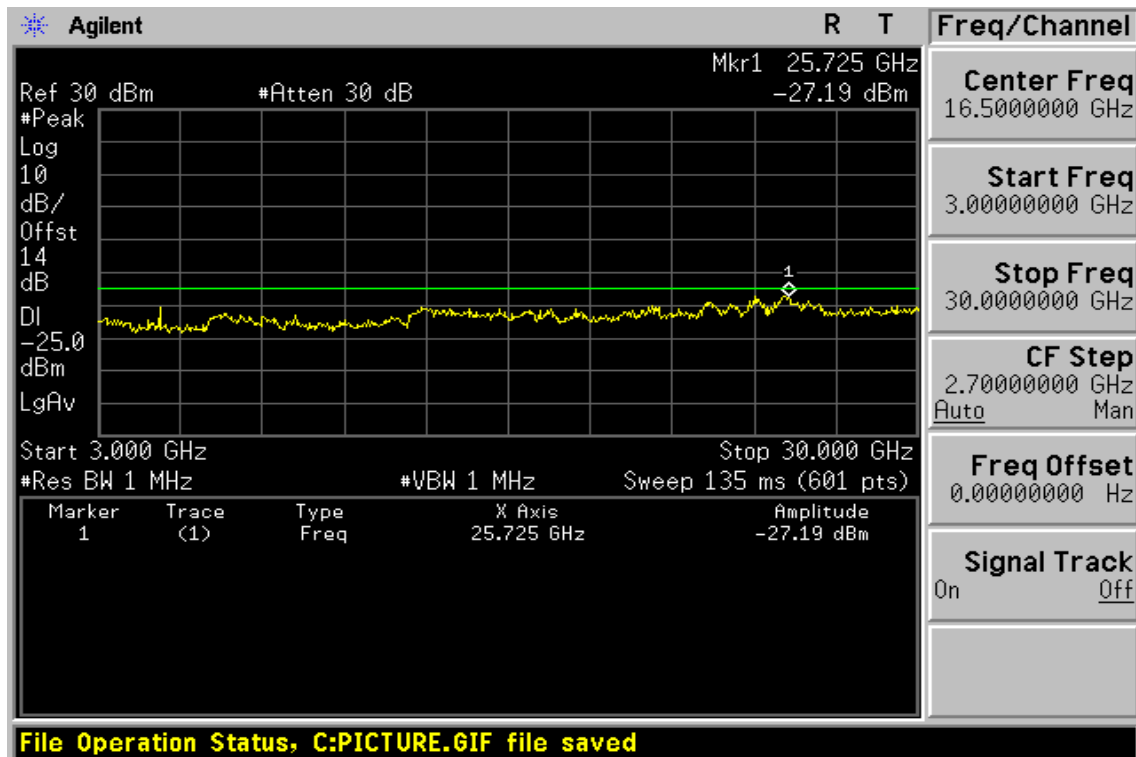
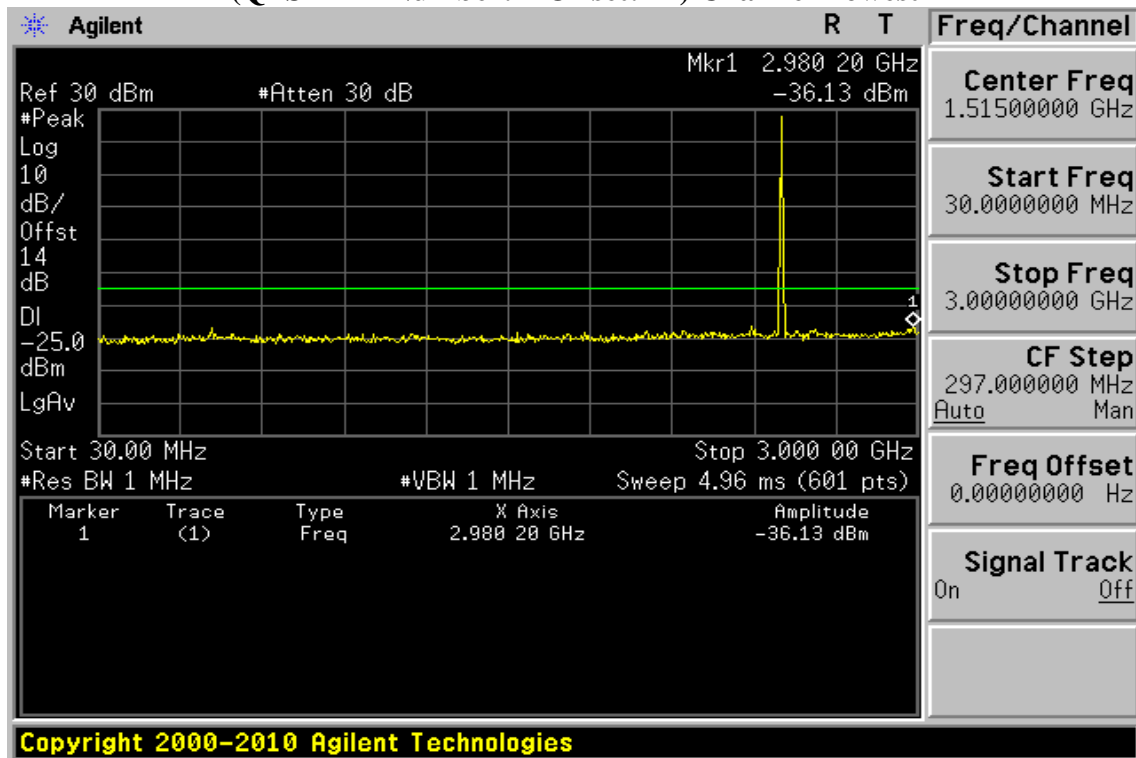
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Figure 10-141: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Lowest



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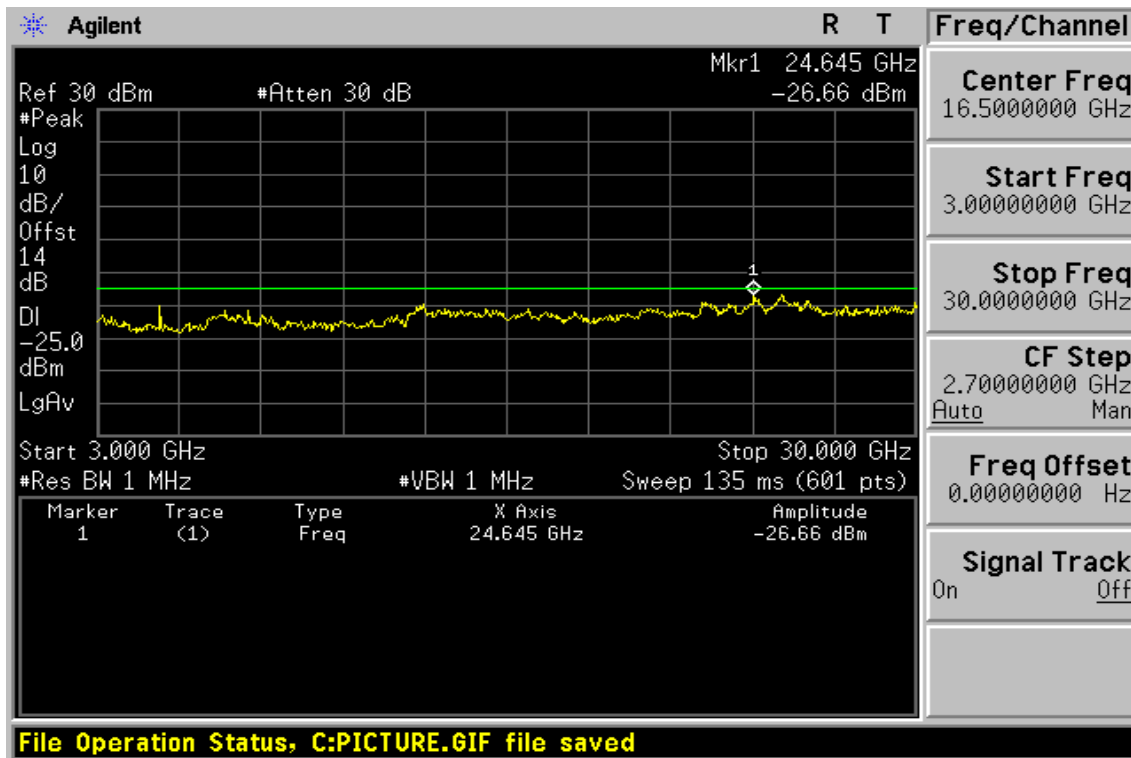
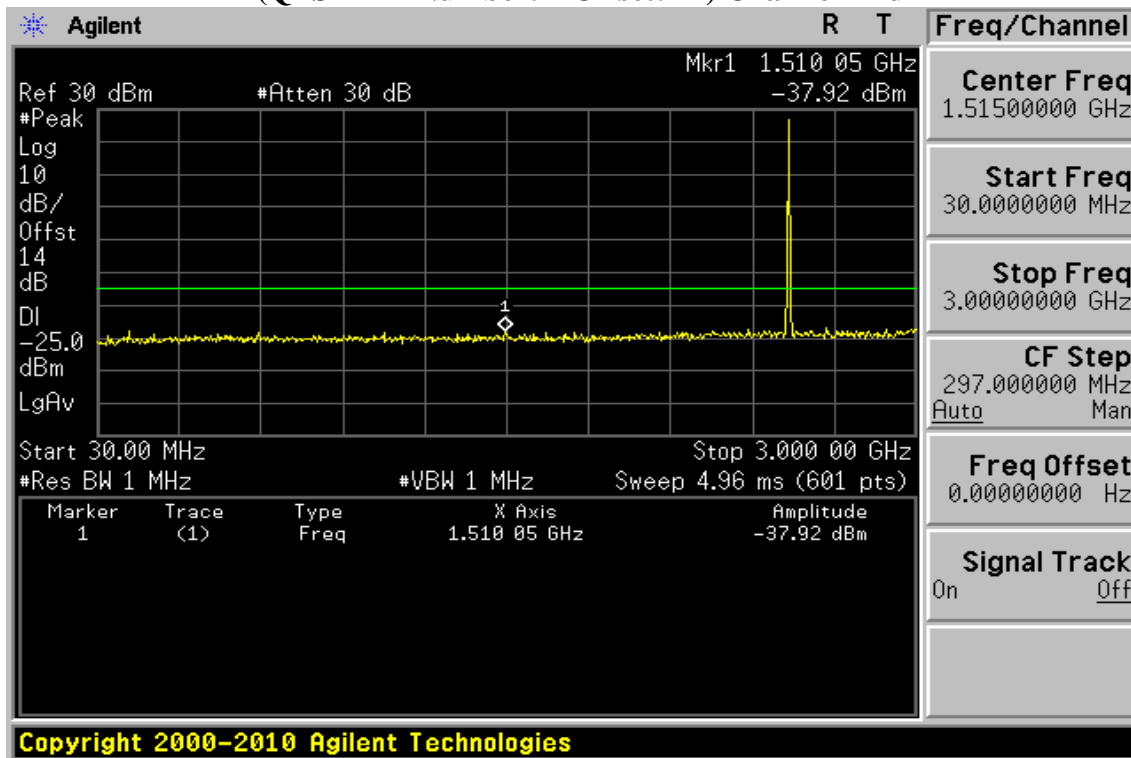
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Figure 10-142: Out of Band emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Mid



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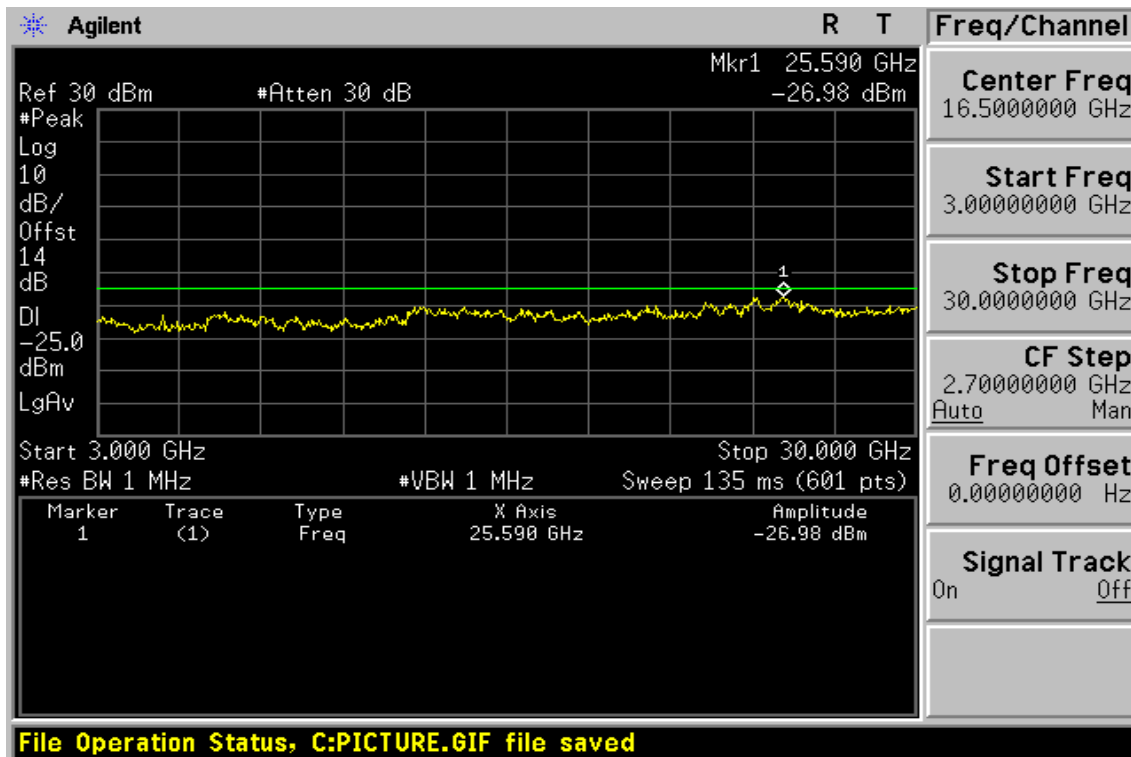
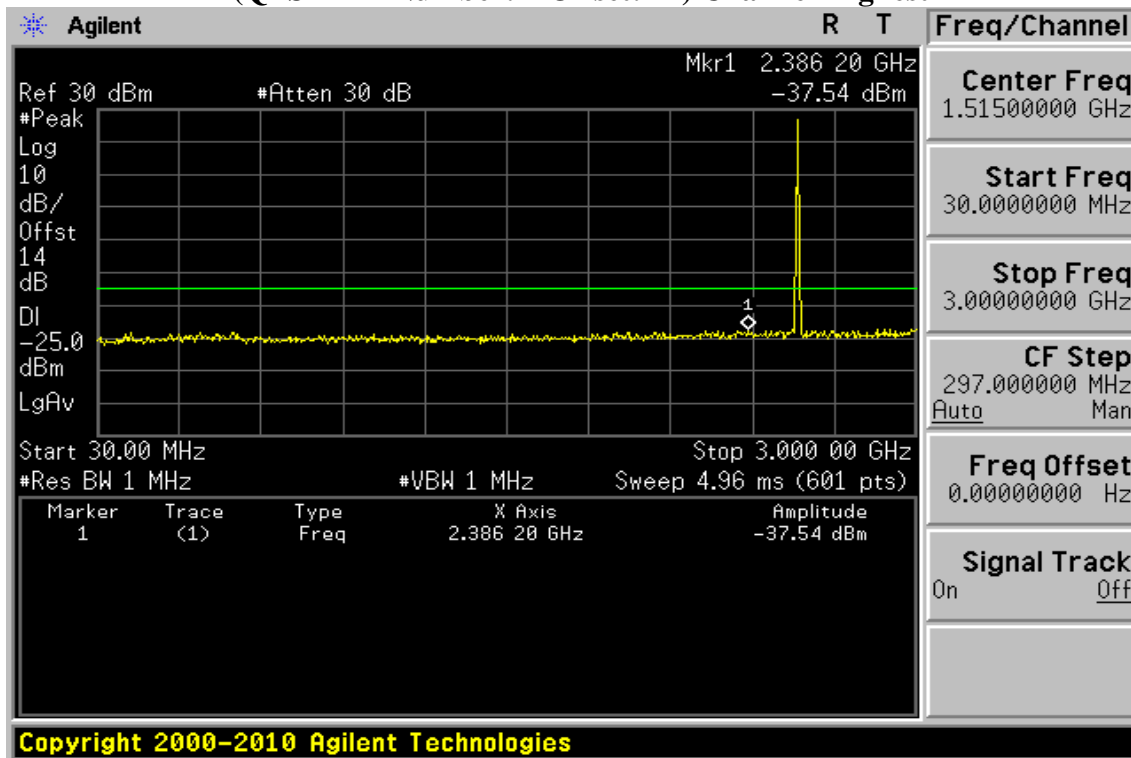
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Figure 10-143: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Out of Band emission at antenna terminals –5MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 24)

Fundamental Frequency :2502.5 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	---
5005.00	H	---	-13.00	---
7507.50	H	---	-13.00	---
10010.00	H	---	-13.00	---
12512.50	H	---	-13.00	---
15015.00	H	---	-13.00	---
17517.50	H	---	-13.00	---
20020.00	H	---	-13.00	---
22522.50	H	---	-13.00	---
25025.00	H	---	-13.00	---
25725.00	S	-27.19	-13.00	14.19

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

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Fundamental Frequency :2535 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	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
24645.00	S	-26.66	-13.00	13.66
25350.00	H	---	-13.00	---

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

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Fundamental Frequency :2567.5MHz 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	---
5135.00	H	---	-13.00	---
7702.50	H	---	-13.00	---
10270.00	H	---	-13.00	---
12837.50	H	---	-13.00	---
15405.00	H	---	-13.00	---
17972.50	H	---	-13.00	---
20540.00	H	---	-13.00	---
23107.50	H	---	-13.00	---
25590.00	S	-26.98	-13.00	13.98
25675.00	H	---	-13.00	---

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

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Figure 10-144: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Lowest

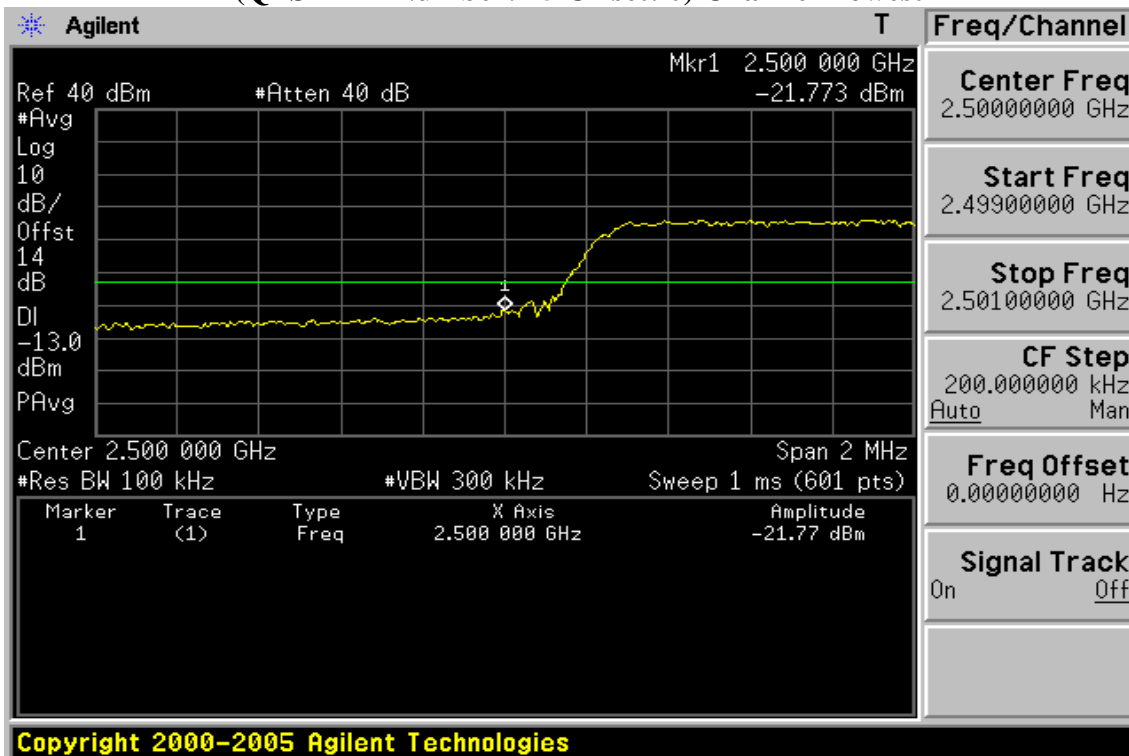


Figure 10-145: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 7

(QPSK RB Number: 25 Offset: 0)

Test Mode 5MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-21.77	-13.00	8.77
2570.000	-24.72	-13.00	11.72

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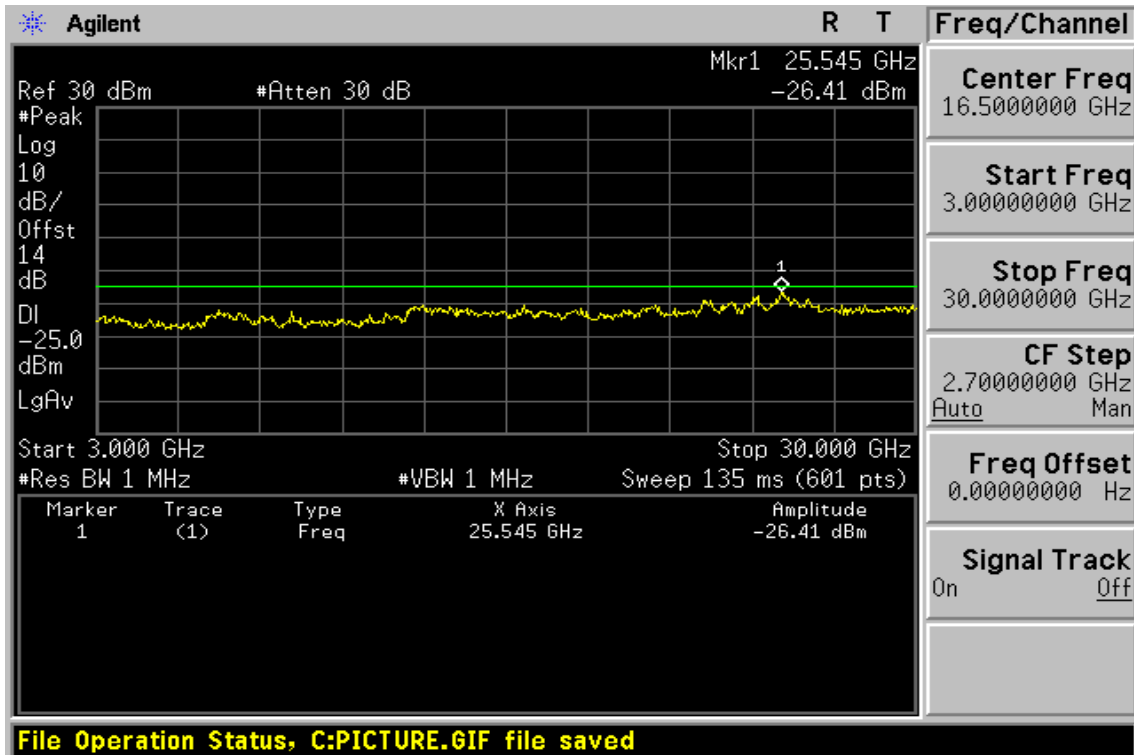
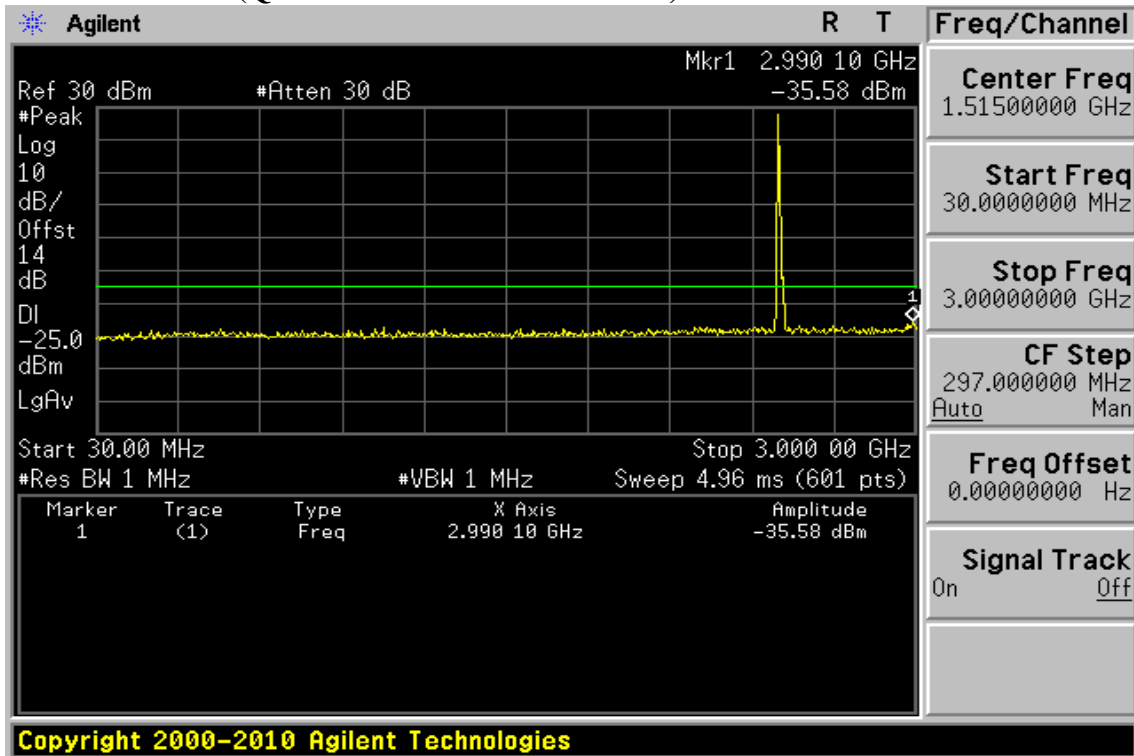
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Figure 10-146: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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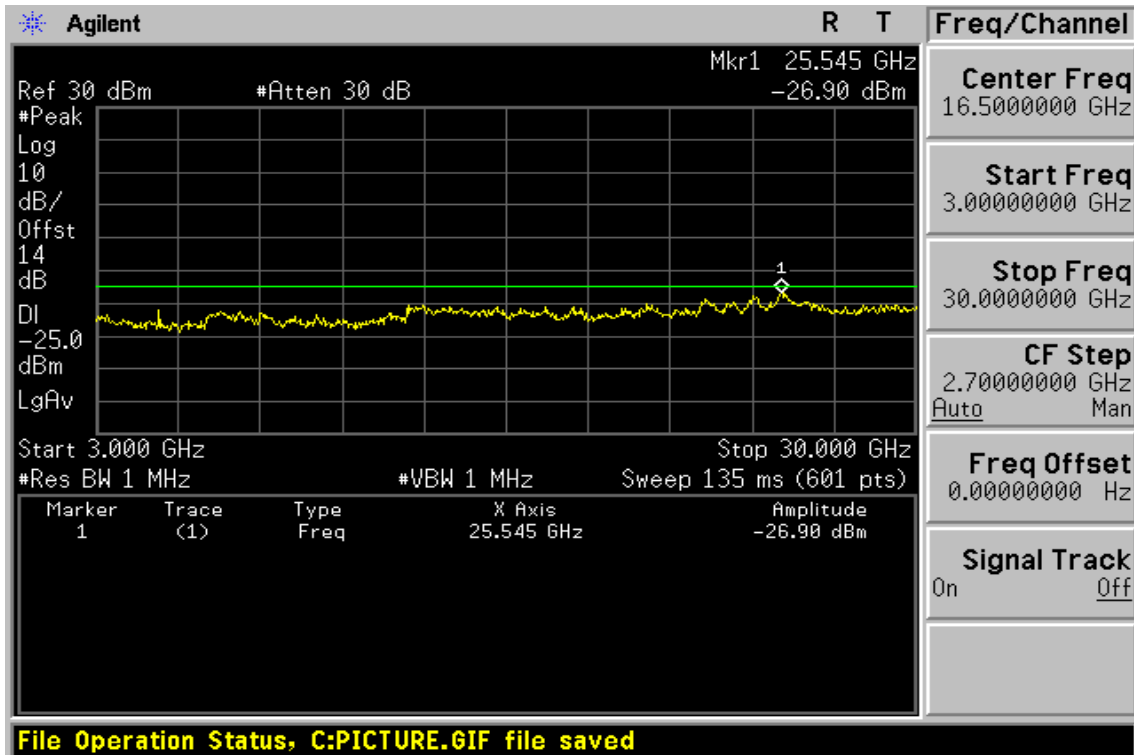
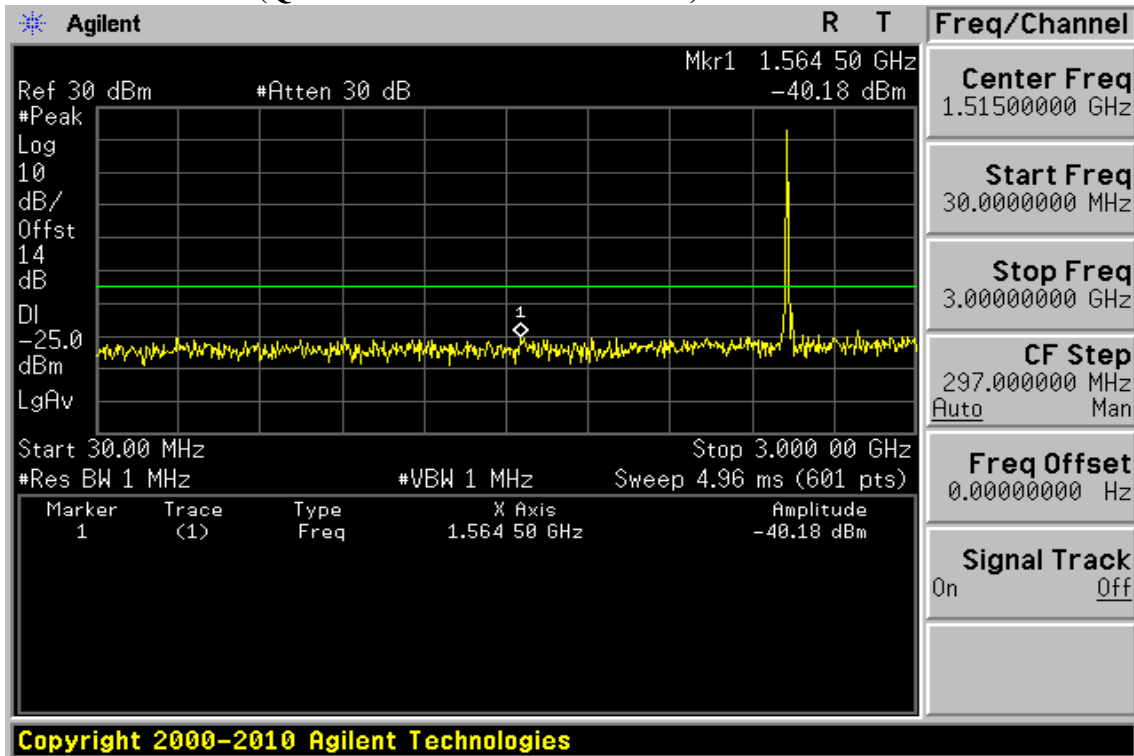
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Figure 10-147: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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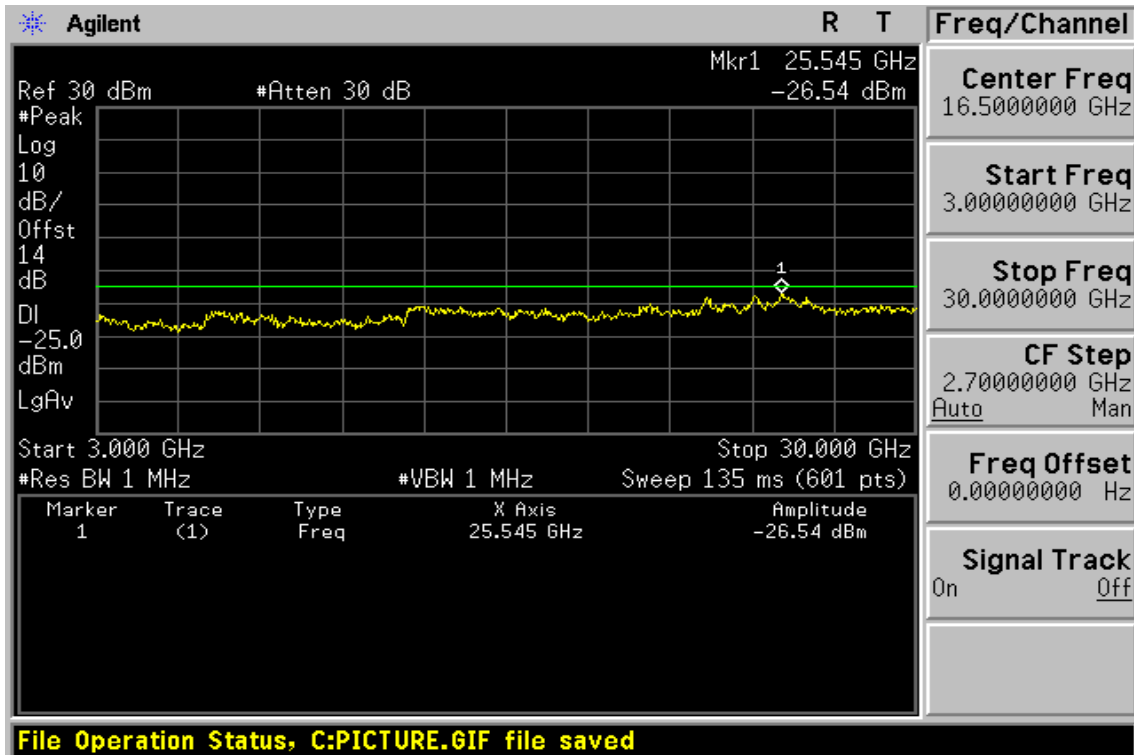
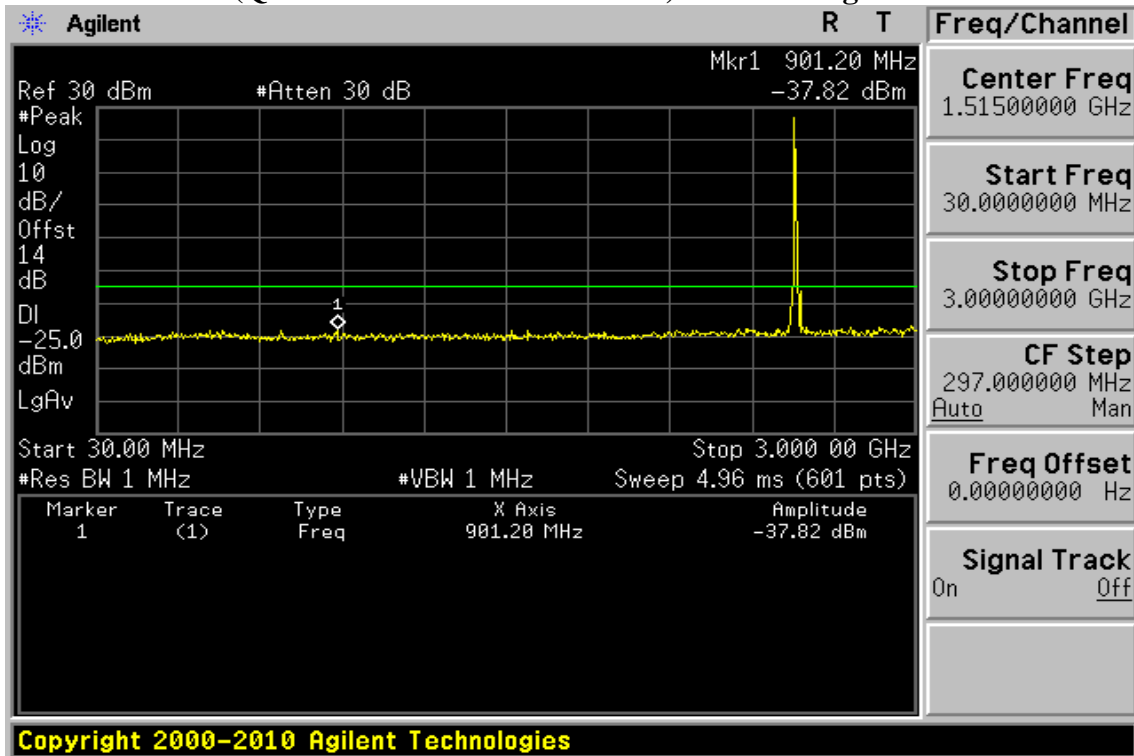
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Figure 10-148: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –10MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2505.5 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	---
5011.00	H	---	-13.00	---
7516.50	H	---	-13.00	---
10022.00	H	---	-13.00	---
12527.50	H	---	-13.00	---
15033.00	H	---	-13.00	---
17538.50	H	---	-13.00	---
20044.00	H	---	-13.00	---
22549.50	H	---	-13.00	---
25055.00	H	---	-13.00	---
25545.00	S	-26.41	-13.00	13.41

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

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Fundamental Frequency :2535 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	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25545.00	S	-26.9	-13.00	13.90

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

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Fundamental Frequency :2565MHz 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	---
5130.00	H	---	-13.00	---
7695.00	H	---	-13.00	---
10260.00	H	---	-13.00	---
12825.00	H	---	-13.00	---
15390.00	H	---	-13.00	---
17955.00	H	---	-13.00	---
20520.00	H	---	-13.00	---
23085.00	H	---	-13.00	---
25545.00	S	-26.54	-13.00	13.54
25650.00	H	---	-13.00	---

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

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Figure 10-149: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

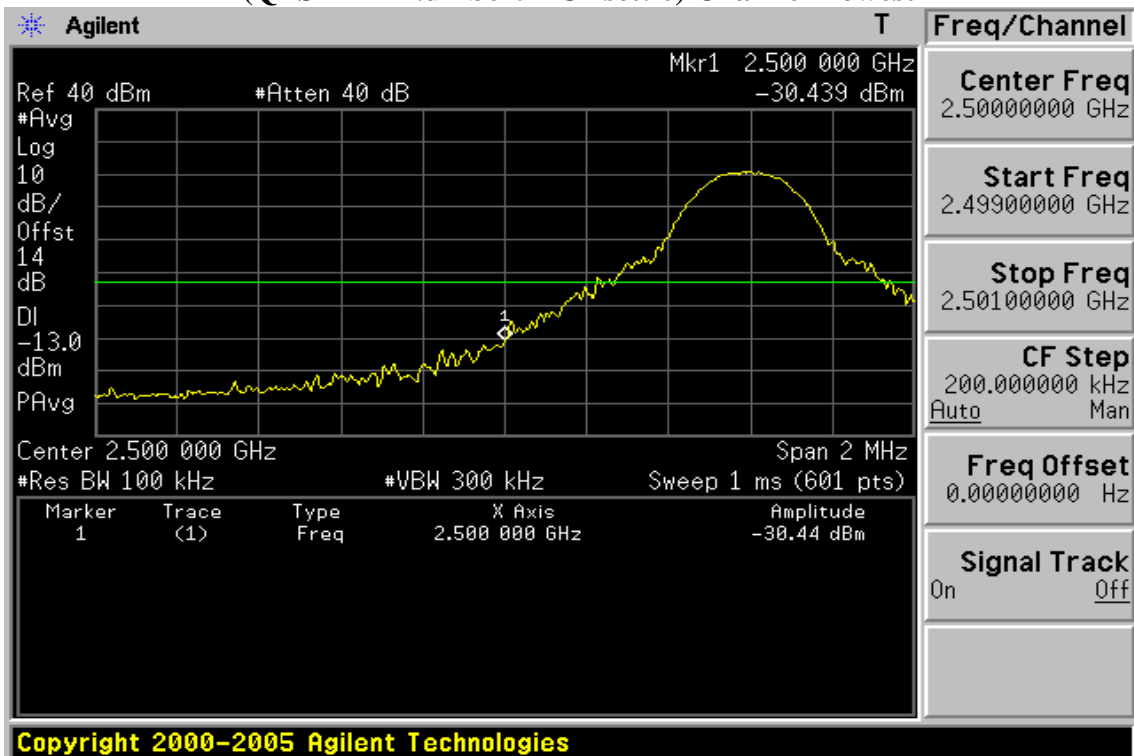
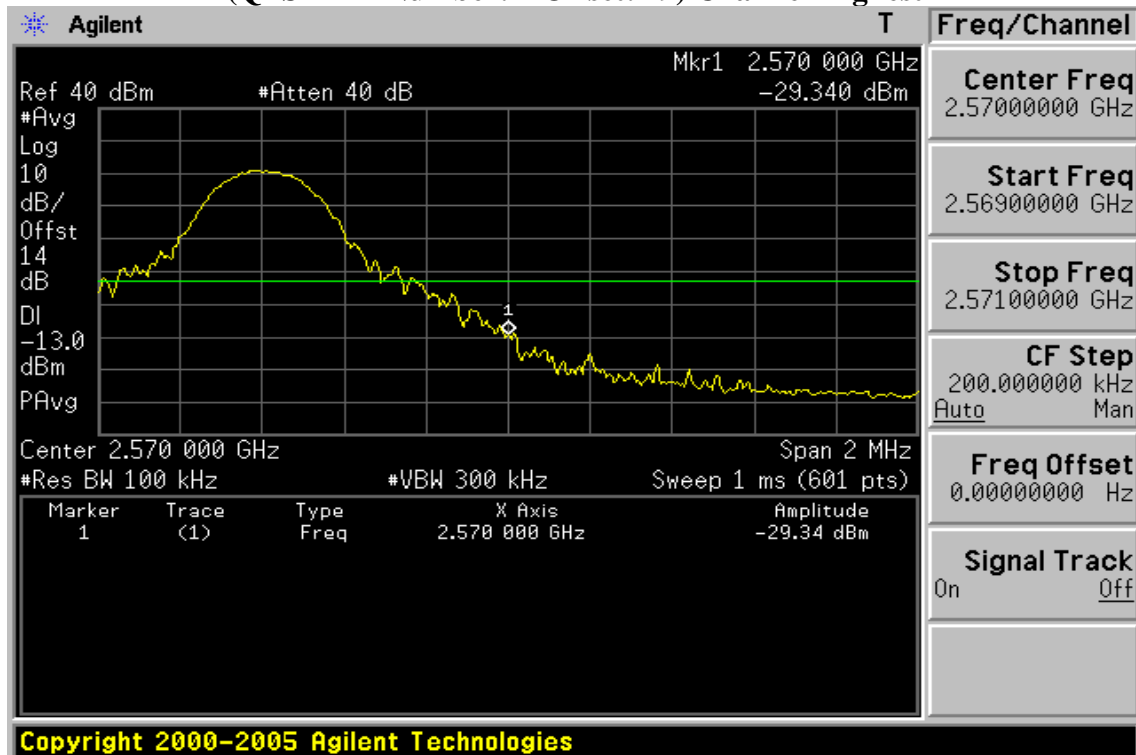


Figure 10-150: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 7

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

Test Mode 10MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-30.44	-13.00	17.44
2570.000	-29.34	-13.00	16.34

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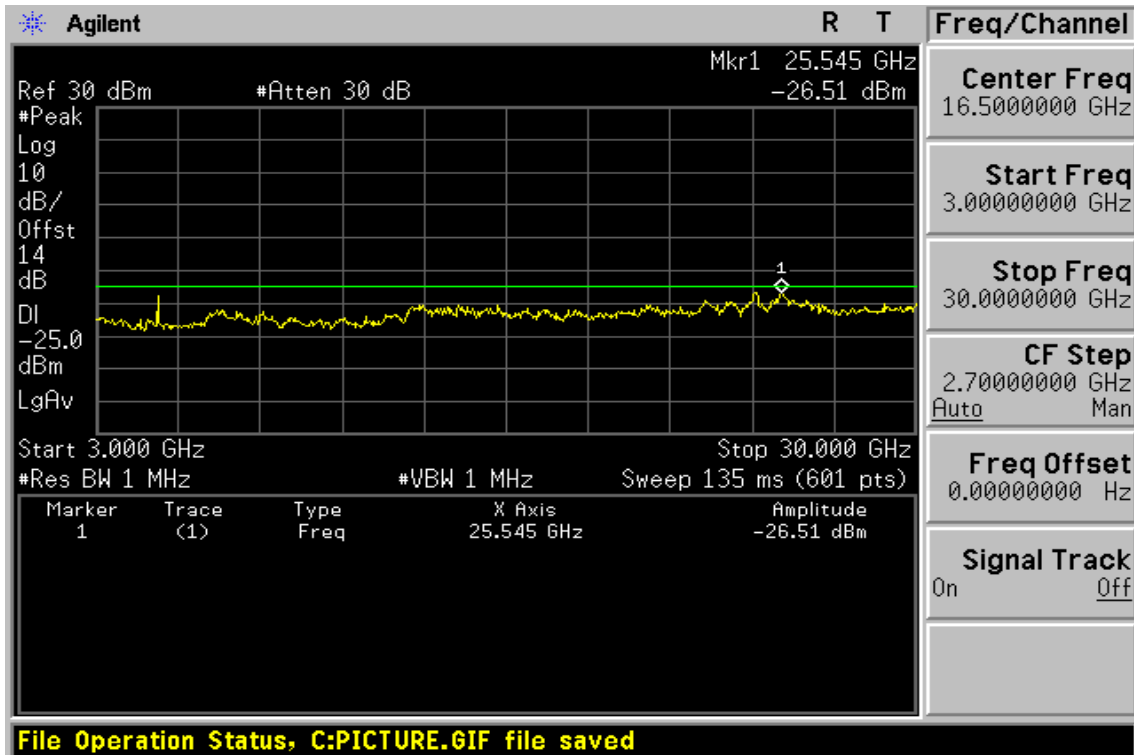
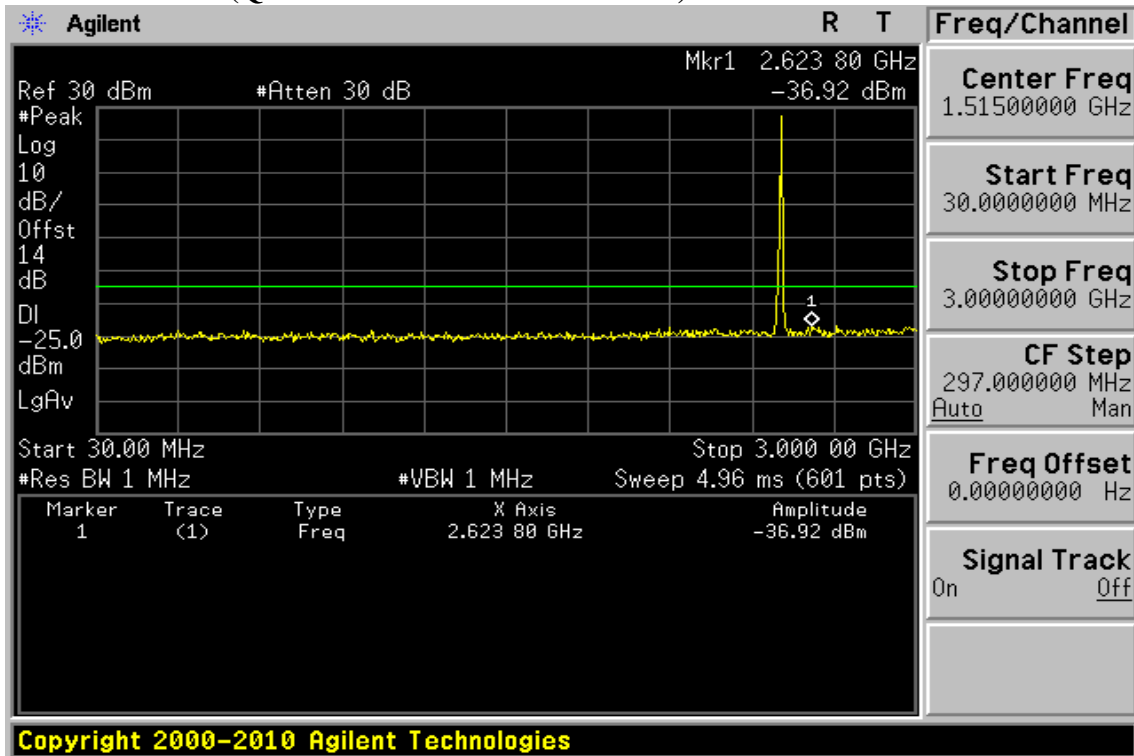
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Figure 10-151: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Lowest



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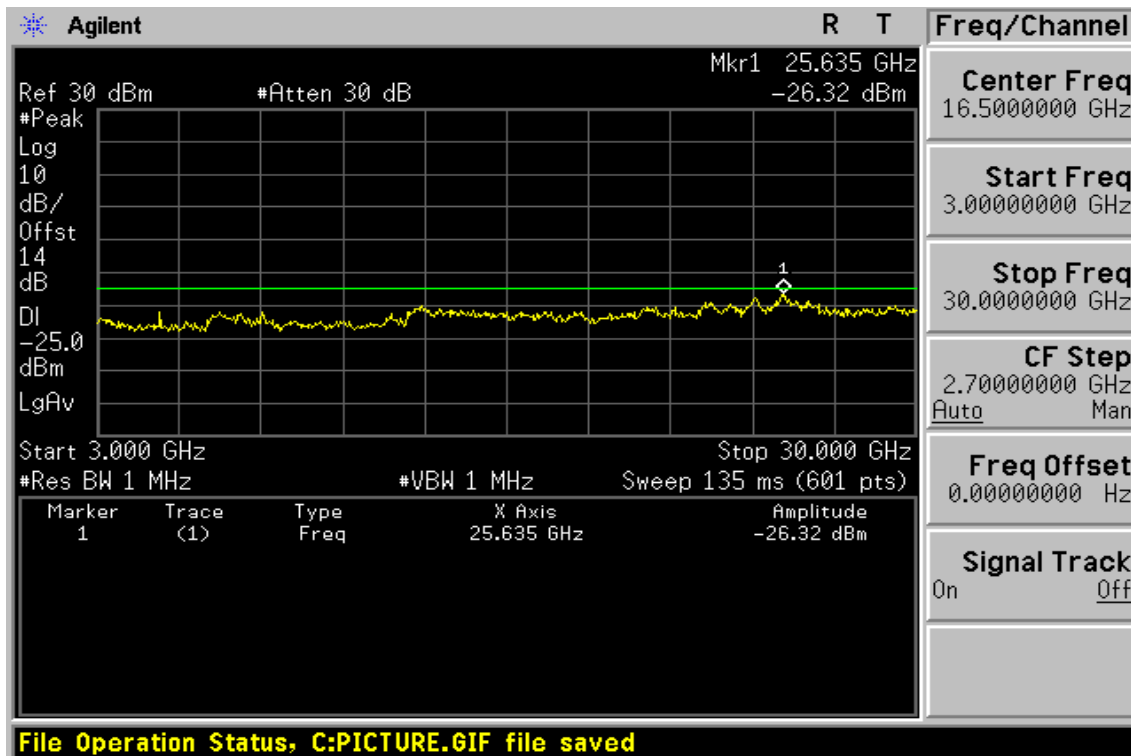
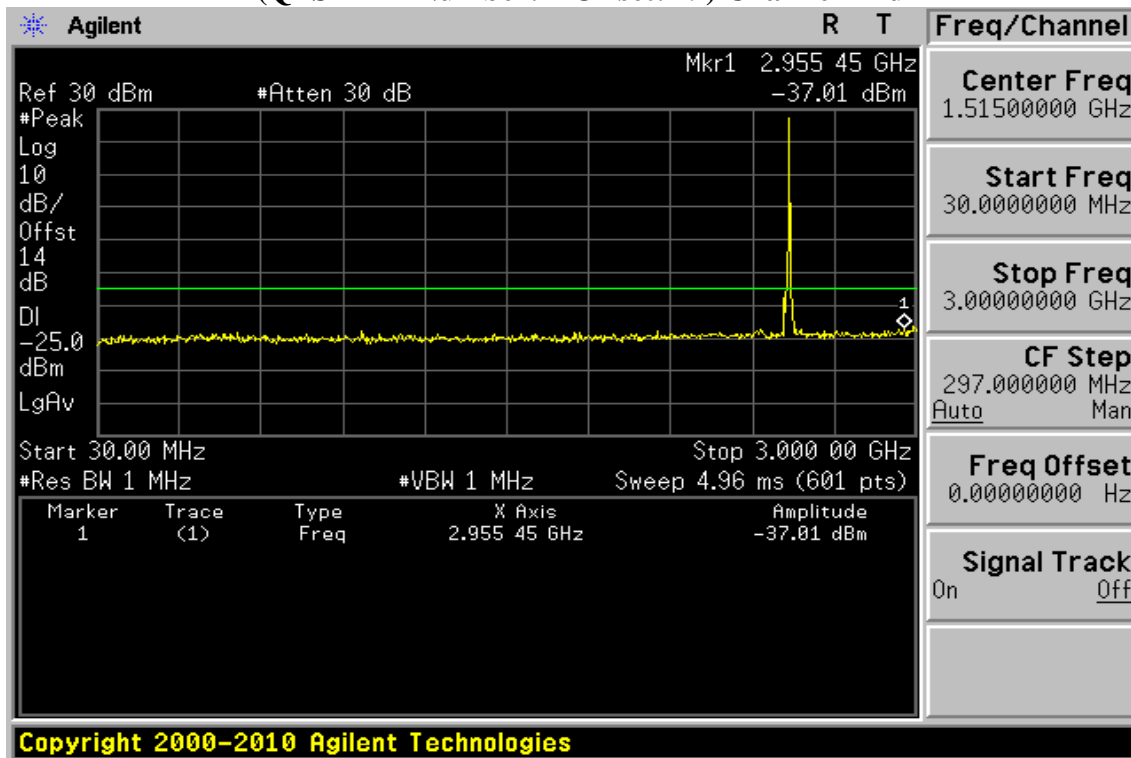
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Figure 10-152: Out of Band emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Mid



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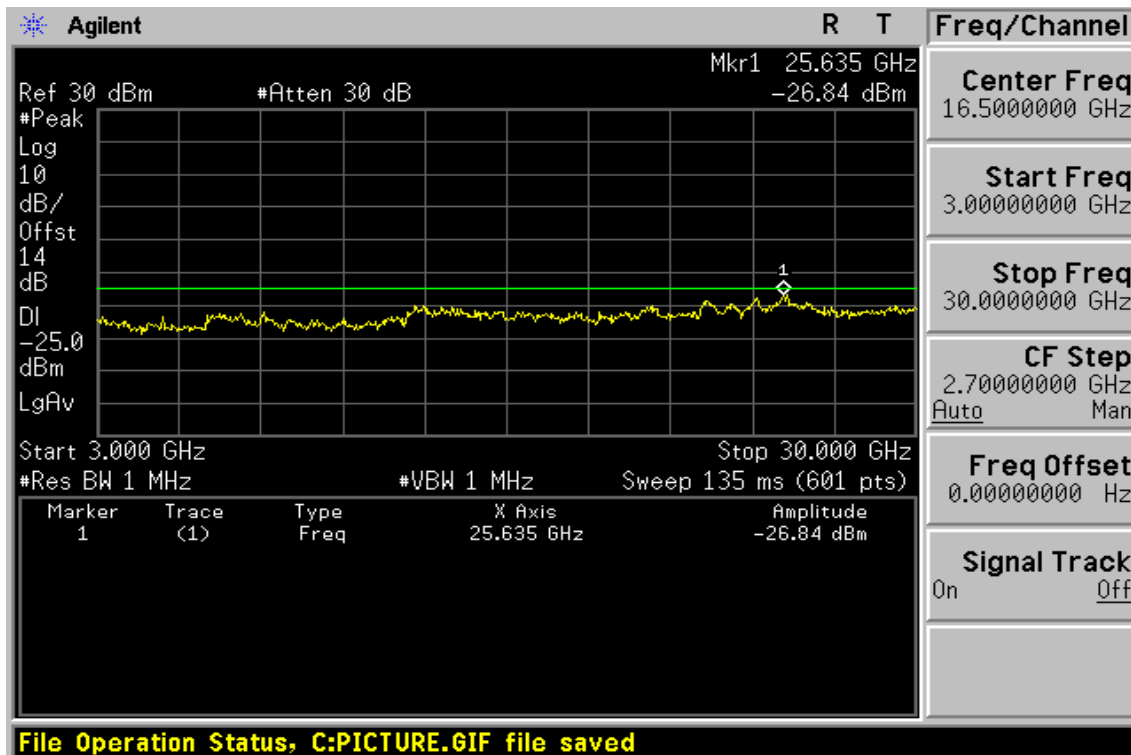
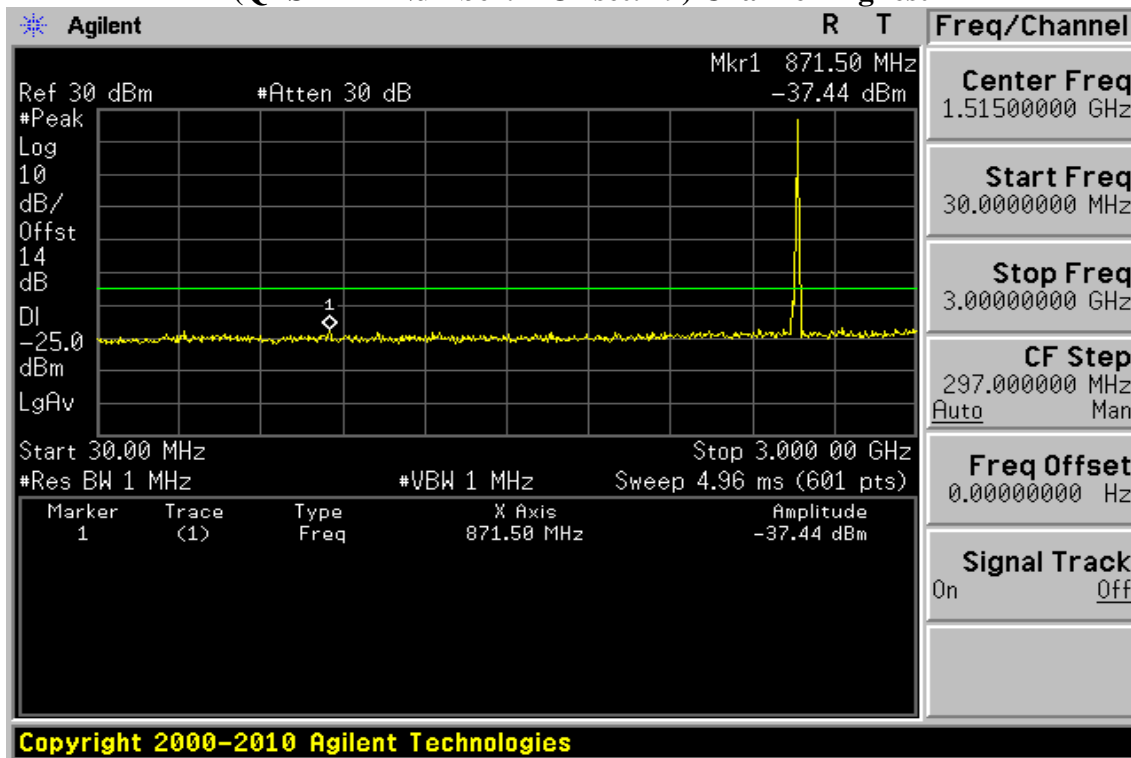
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Figure 10-153: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Out of Band emission at antenna terminals –10MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 49)

Fundamental Frequency :2505.5 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	---
5011.00	H	---	-13.00	---
7516.50	H	---	-13.00	---
10022.00	H	---	-13.00	---
12527.50	H	---	-13.00	---
15033.00	H	---	-13.00	---
17538.50	H	---	-13.00	---
20044.00	H	---	-13.00	---
22549.50	H	---	-13.00	---
25055.00	H	---	-13.00	---
25545.00	S	-26.51	-13.00	13.51

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

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Fundamental Frequency :2535 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	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25635.00	S	-26.32	-13.00	13.32

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

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Fundamental Frequency :2565MHz 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	---
5130.00	H	---	-13.00	---
7695.00	H	---	-13.00	---
10260.00	H	---	-13.00	---
12825.00	H	---	-13.00	---
15390.00	H	---	-13.00	---
17955.00	H	---	-13.00	---
20520.00	H	---	-13.00	---
23085.00	H	---	-13.00	---
25635.00	S	-26.84	-13.00	13.84
25650.00	H	---	-13.00	---

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

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Figure 10-154: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Lowest

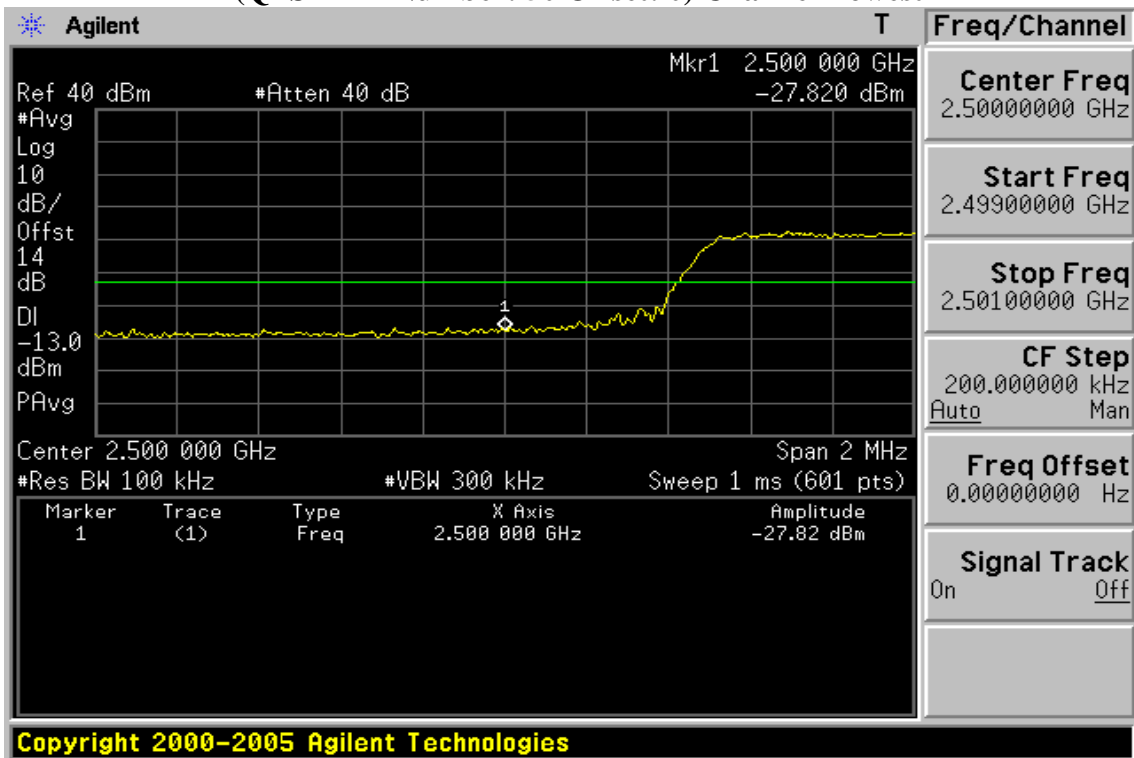
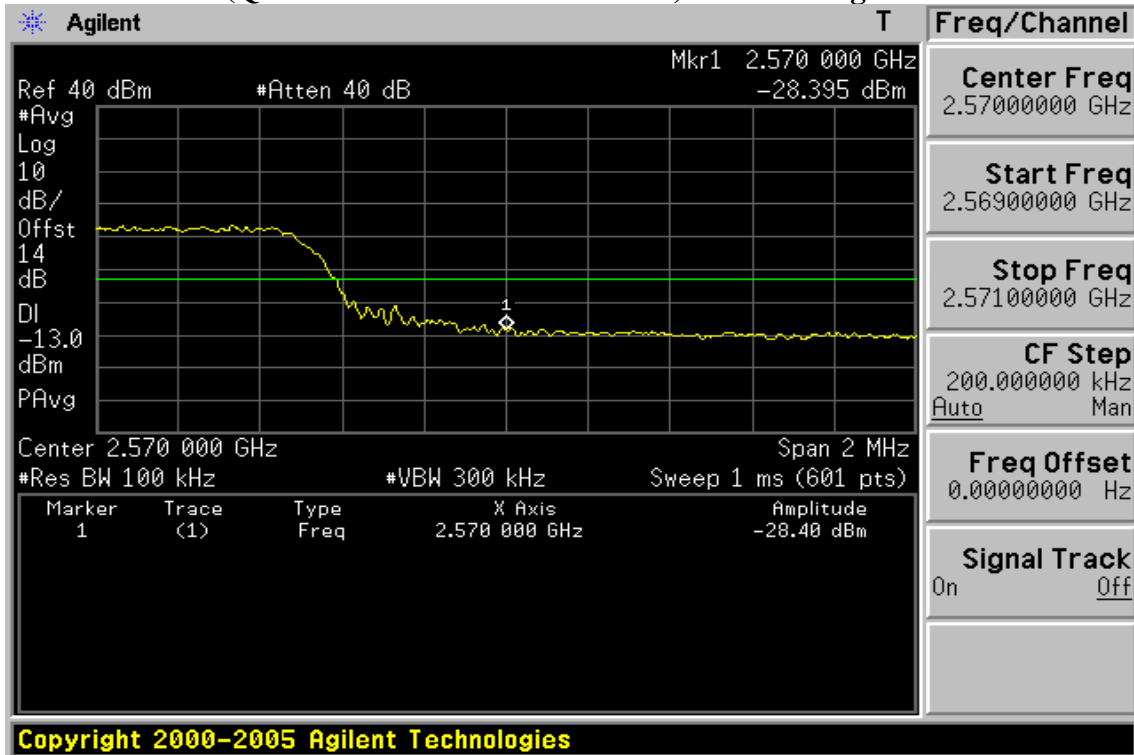


Figure 10-155: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 7

(QPSK RB Number: 50 Offset: 0)

Test Mode 10MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-27.82	-13.00	14.82
2570.000	-28.40	-13.00	15.40

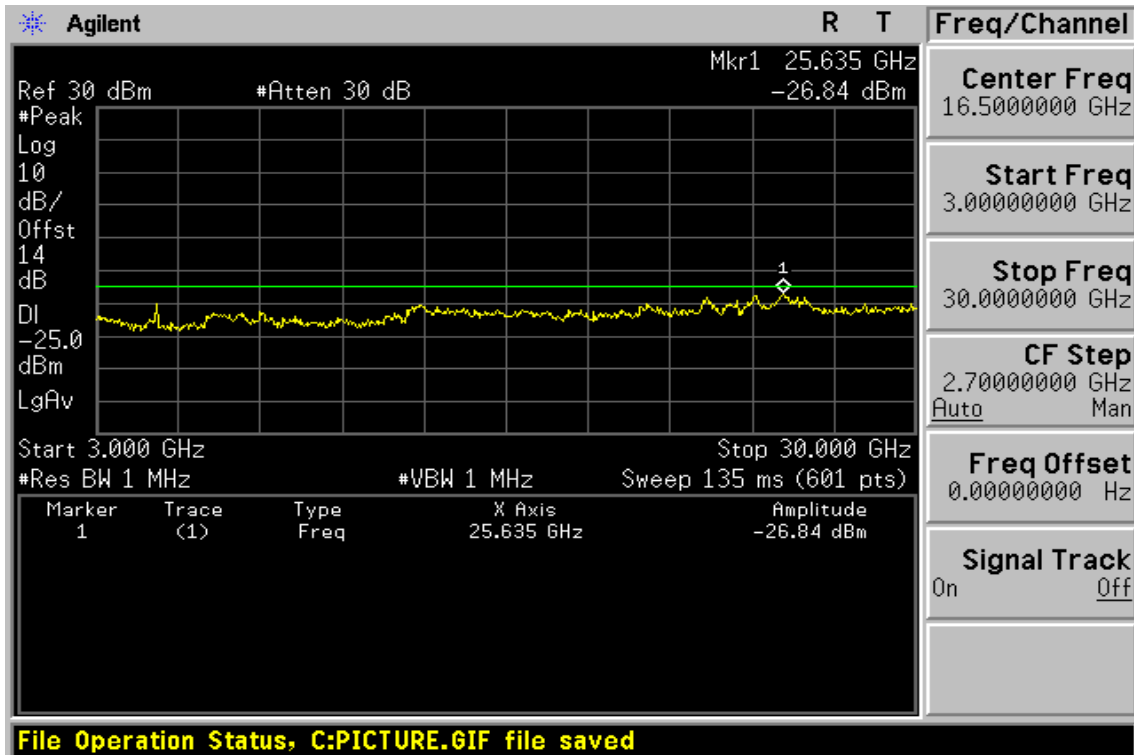
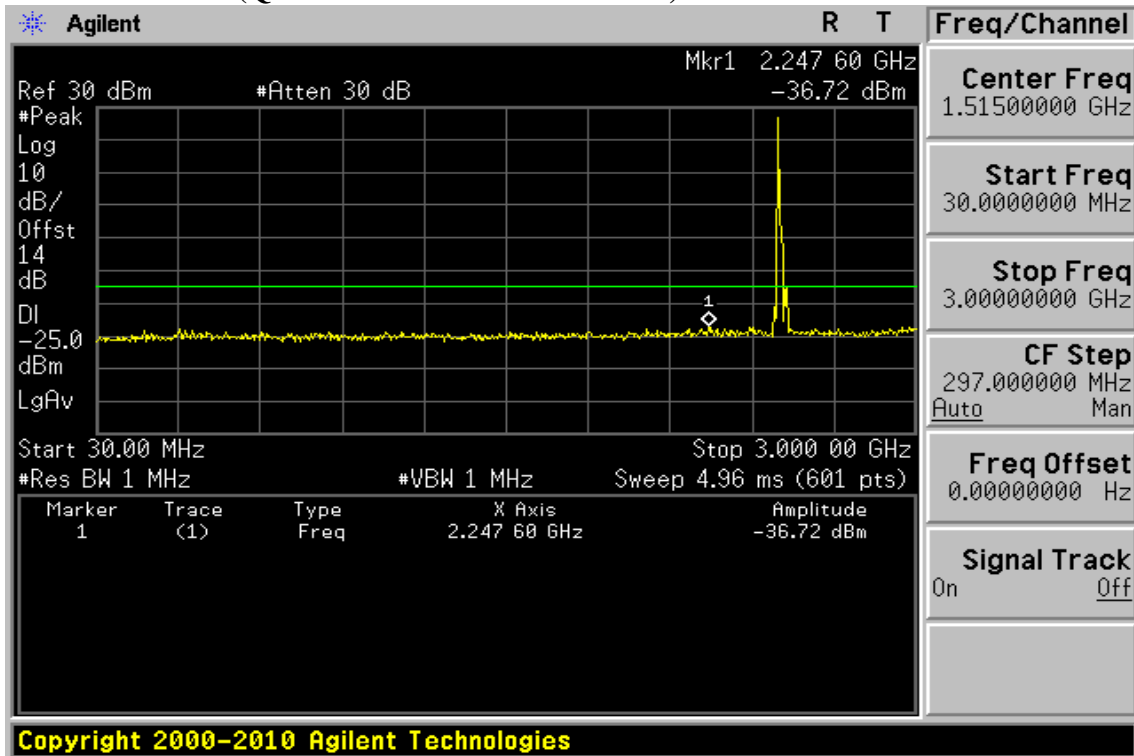
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Figure 10-156: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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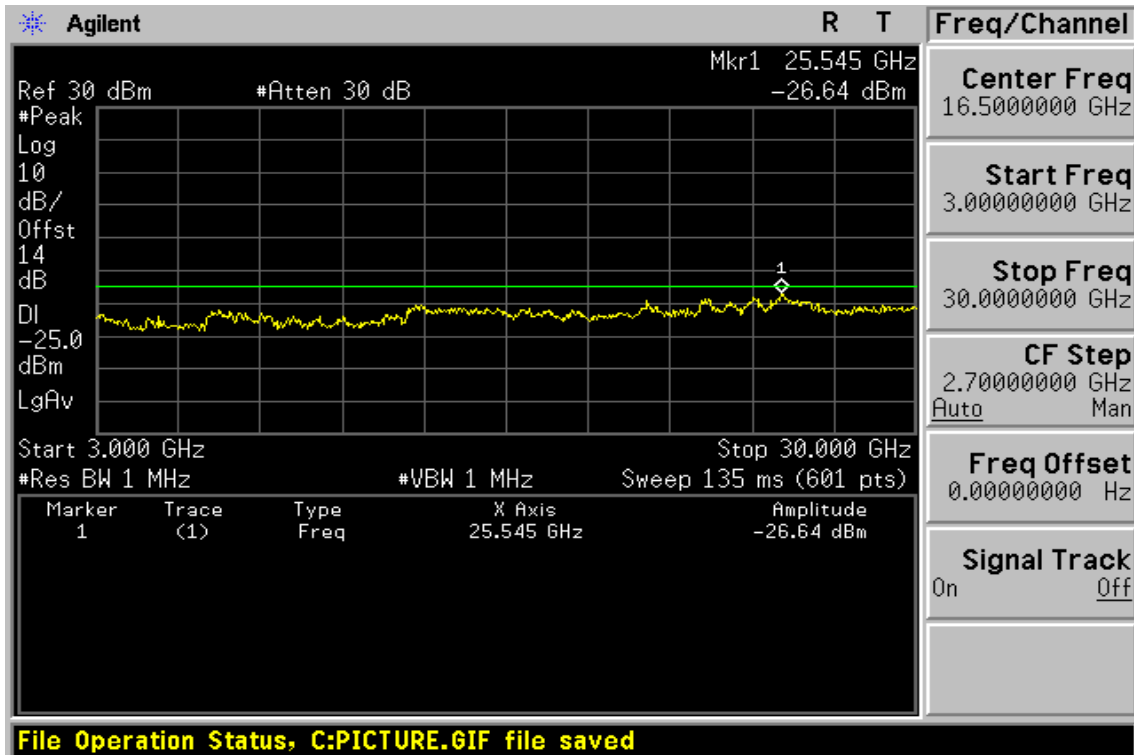
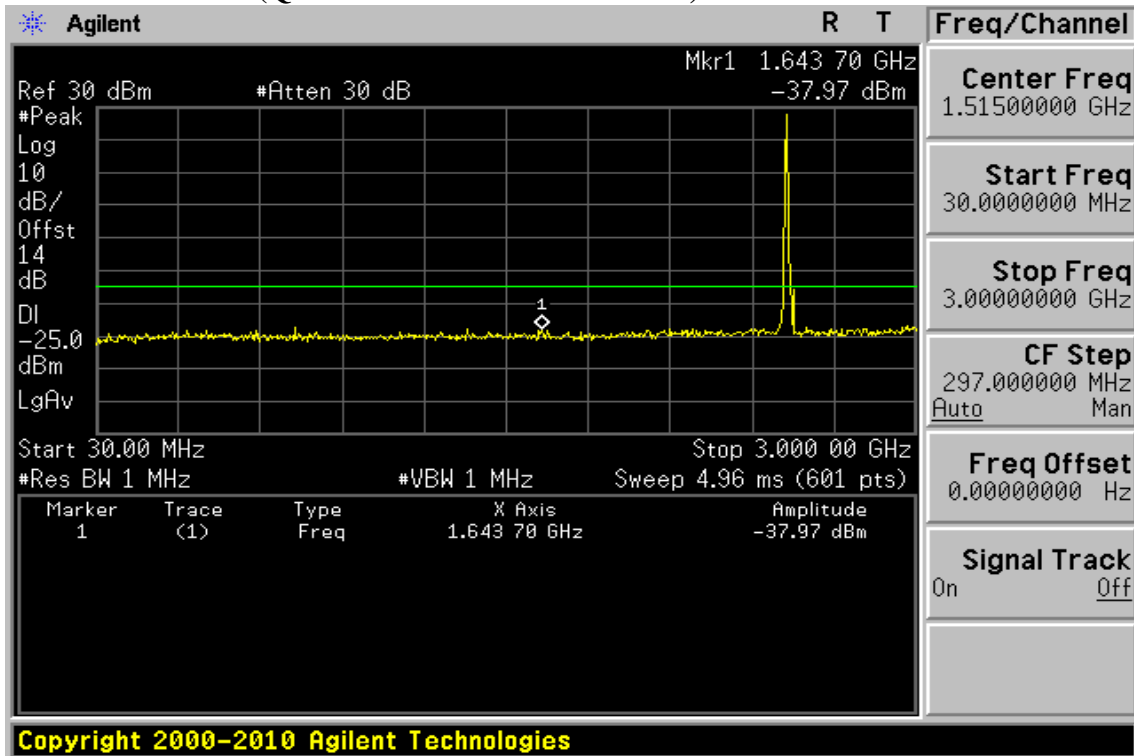
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Figure 10-157: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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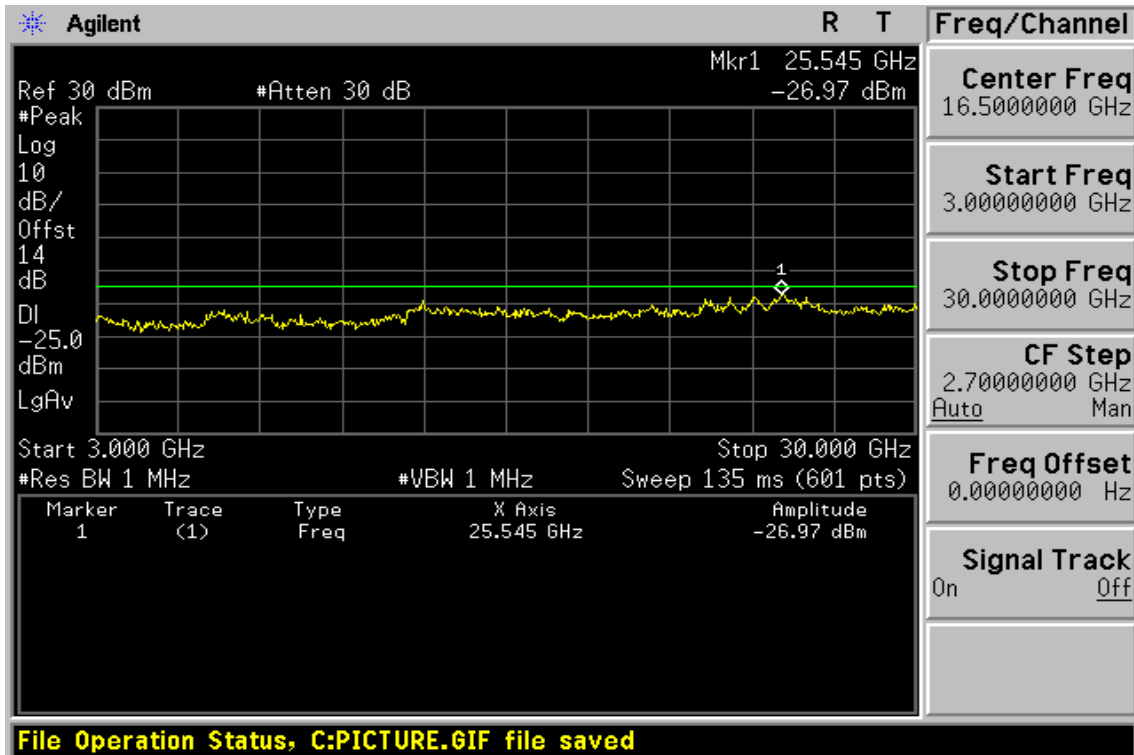
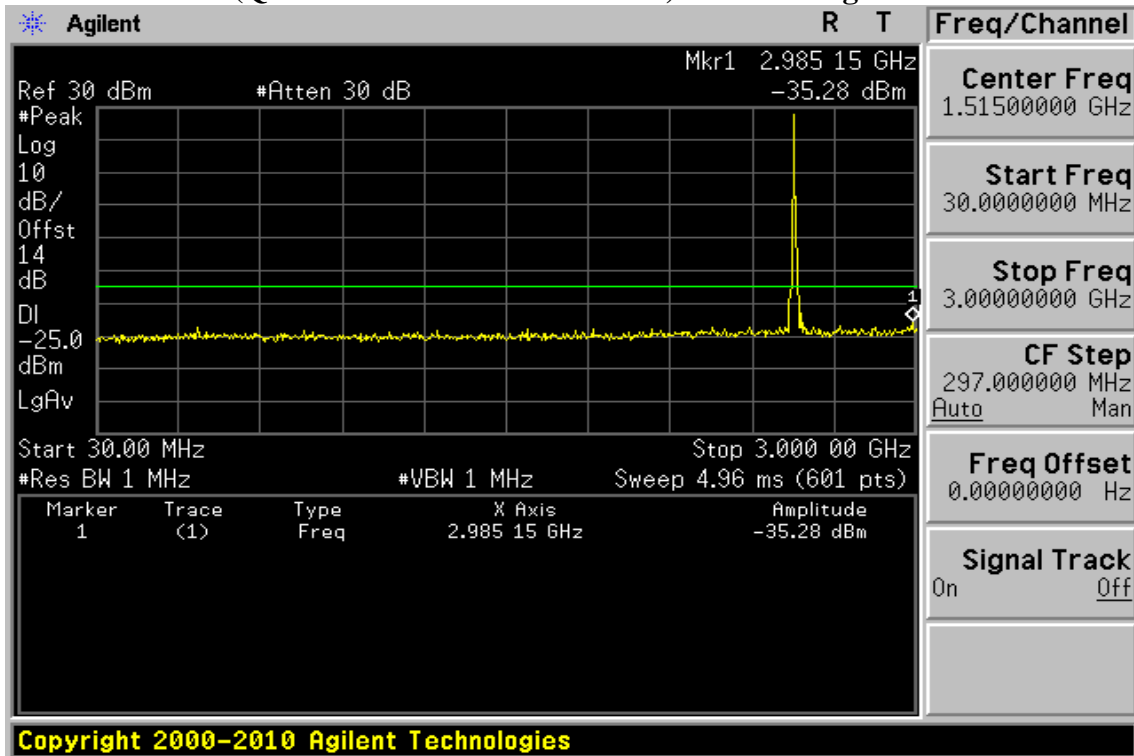
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Figure 10-158: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –15MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2507.5 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	---
5015.00	H	---	-13.00	---
7522.50	H	---	-13.00	---
10030.00	H	---	-13.00	---
12537.50	H	---	-13.00	---
15045.00	H	---	-13.00	---
17552.50	H	---	-13.00	---
20060.00	H	---	-13.00	---
22567.50	H	---	-13.00	---
25075.00	H	---	-13.00	---
25635.00	S	-26.84	-13.00	13.84

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

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Fundamental Frequency :2535 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	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25545.00	S	-26.64	-13.00	13.64

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

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Fundamental Frequency :2562.5MHz 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	---
5125.00	H	---	-13.00	---
7687.50	H	---	-13.00	---
10250.00	H	---	-13.00	---
12812.50	H	---	-13.00	---
15375.00	H	---	-13.00	---
17937.50	H	---	-13.00	---
20500.00	H	---	-13.00	---
23062.50	H	---	-13.00	---
25545.00	S	-26.97	-13.00	13.97
25625.00	H	---	-13.00	---

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

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Figure 10-159: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

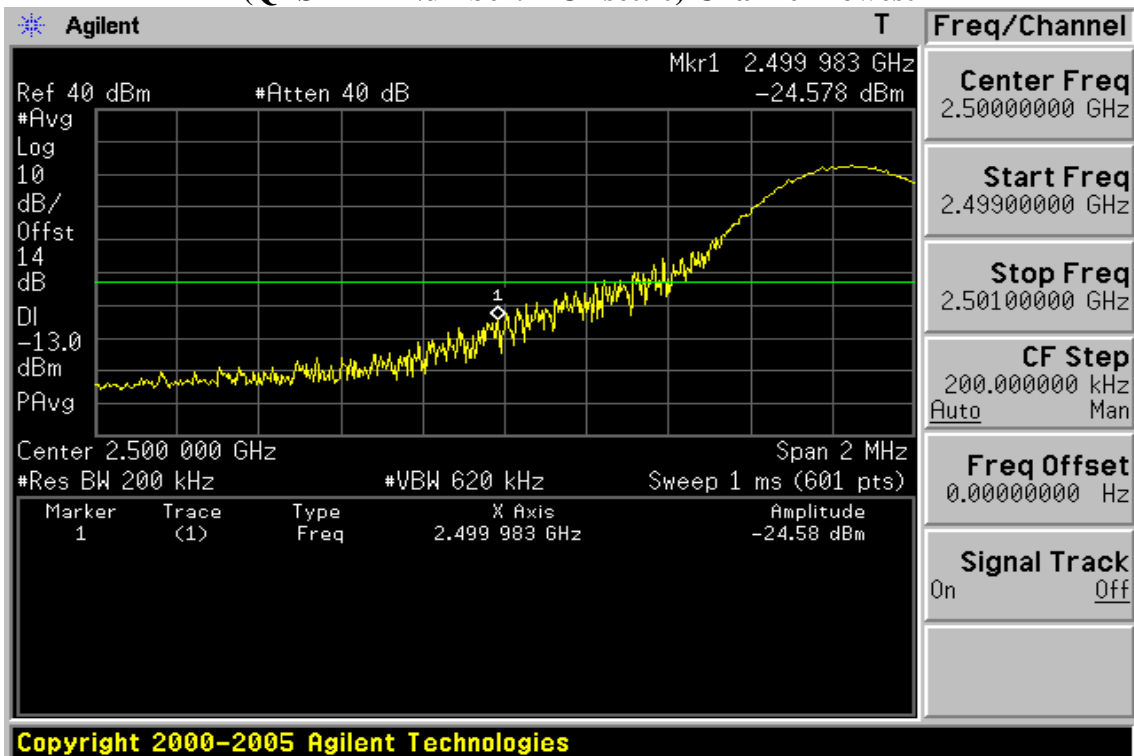
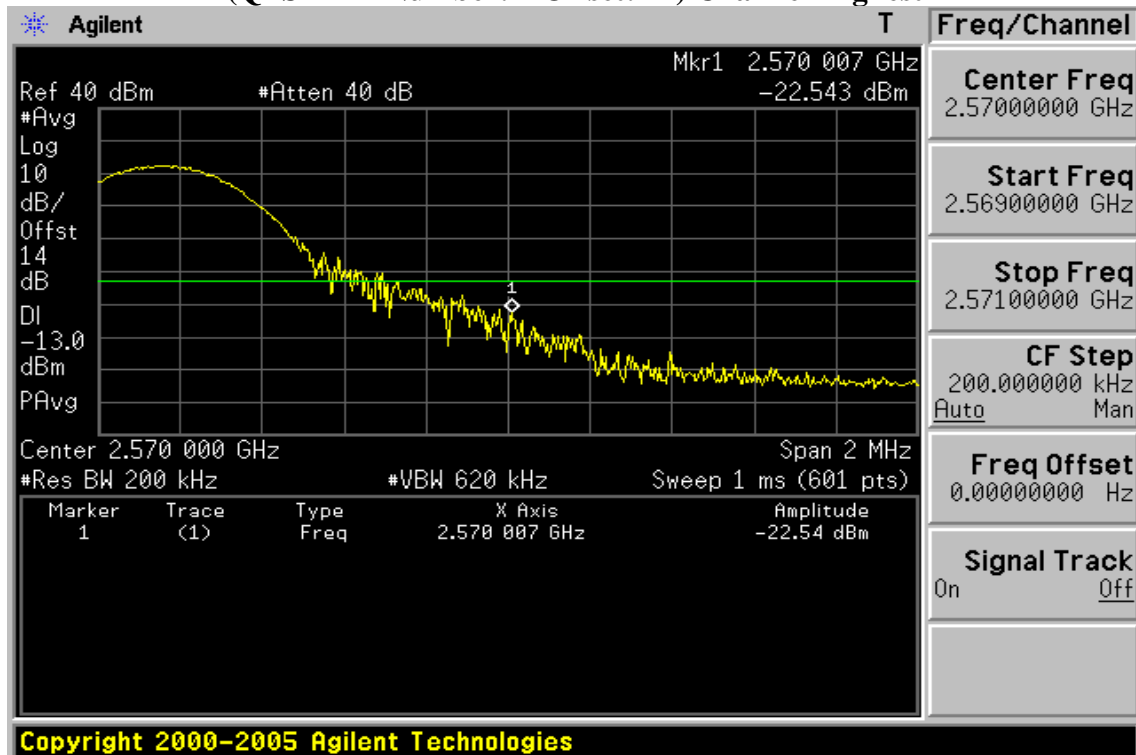


Figure 10-160: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest



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Band edge emission at antenna terminals –15MHz BW LTE-Band 7

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

Test Mode 15MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2499.983	-24.58	-13.00	11.58
2570.007	-22.54	-13.00	9.54

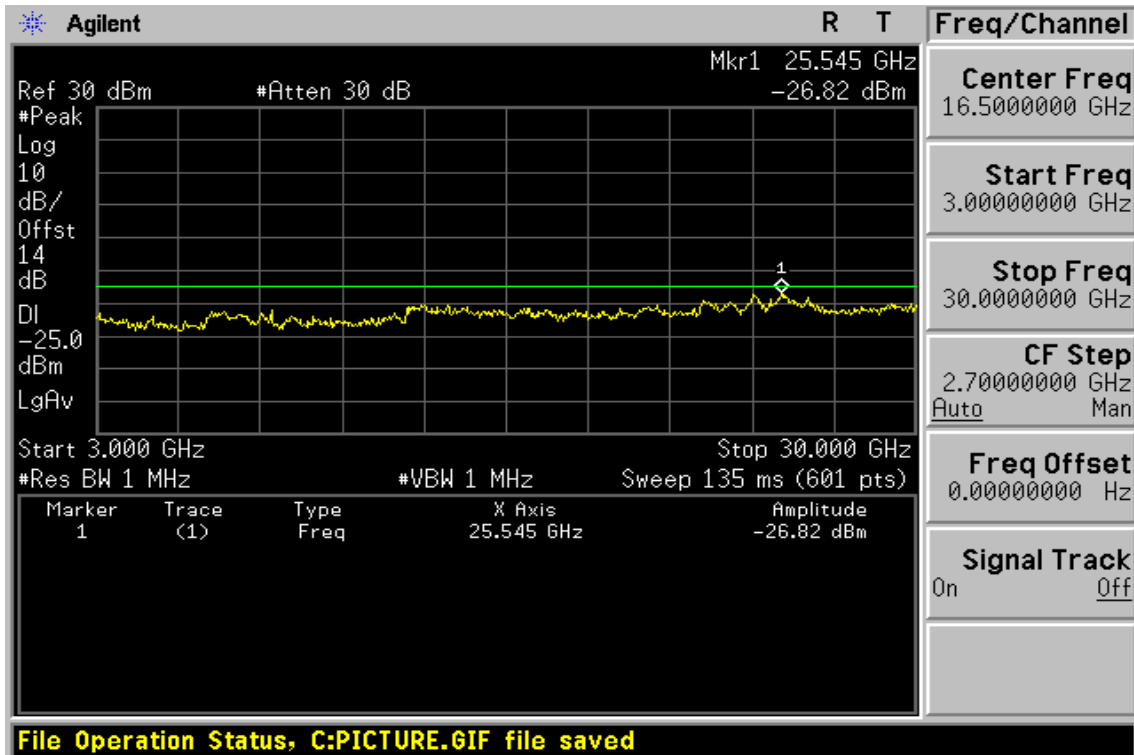
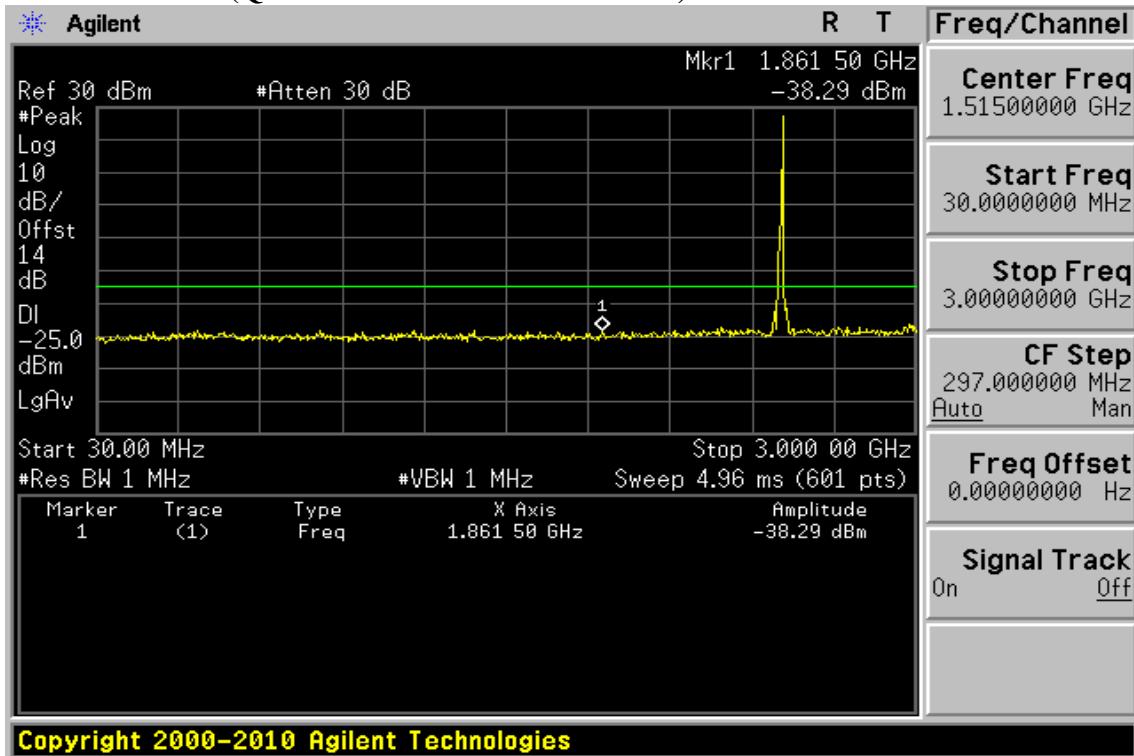
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Figure 10-161: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Lowest



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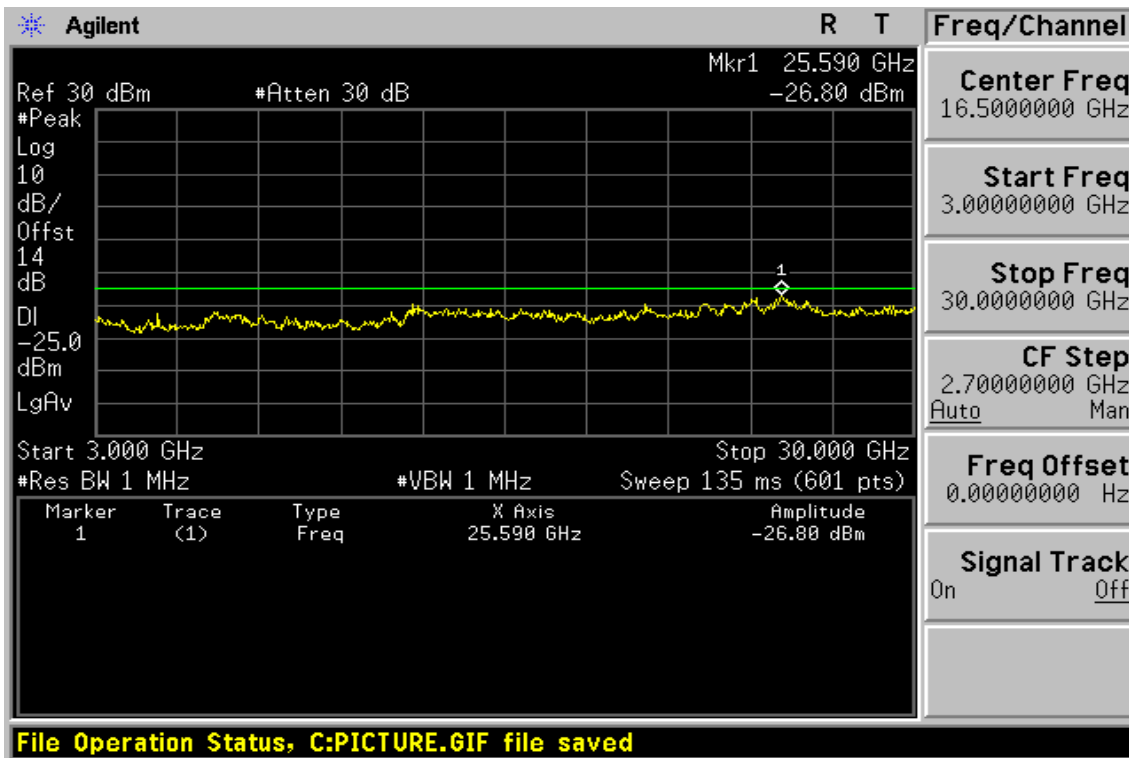
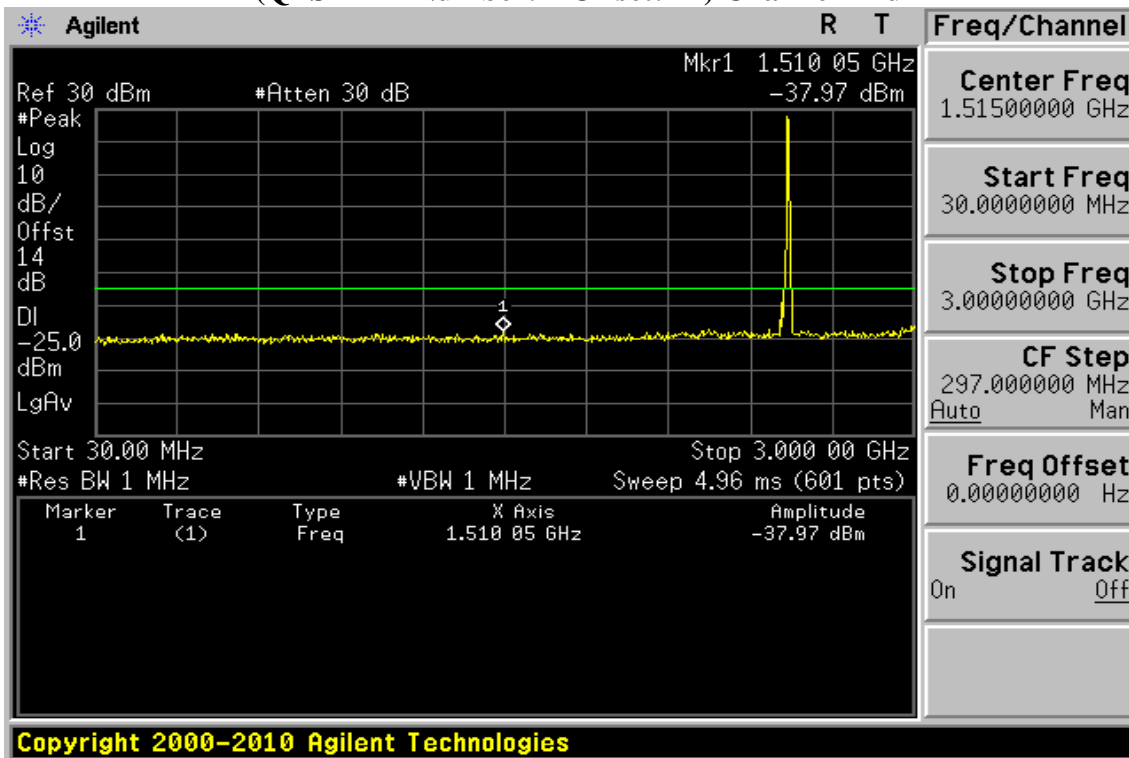
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Figure 10-162: Out of Band emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Mid



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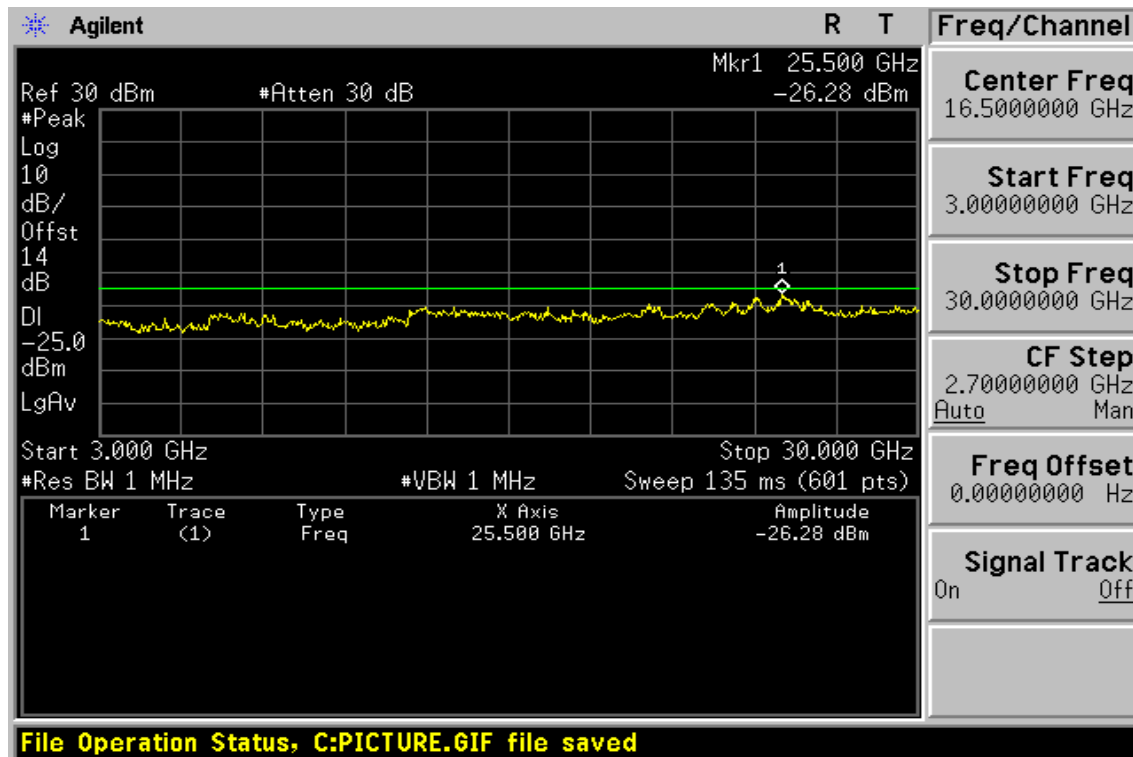
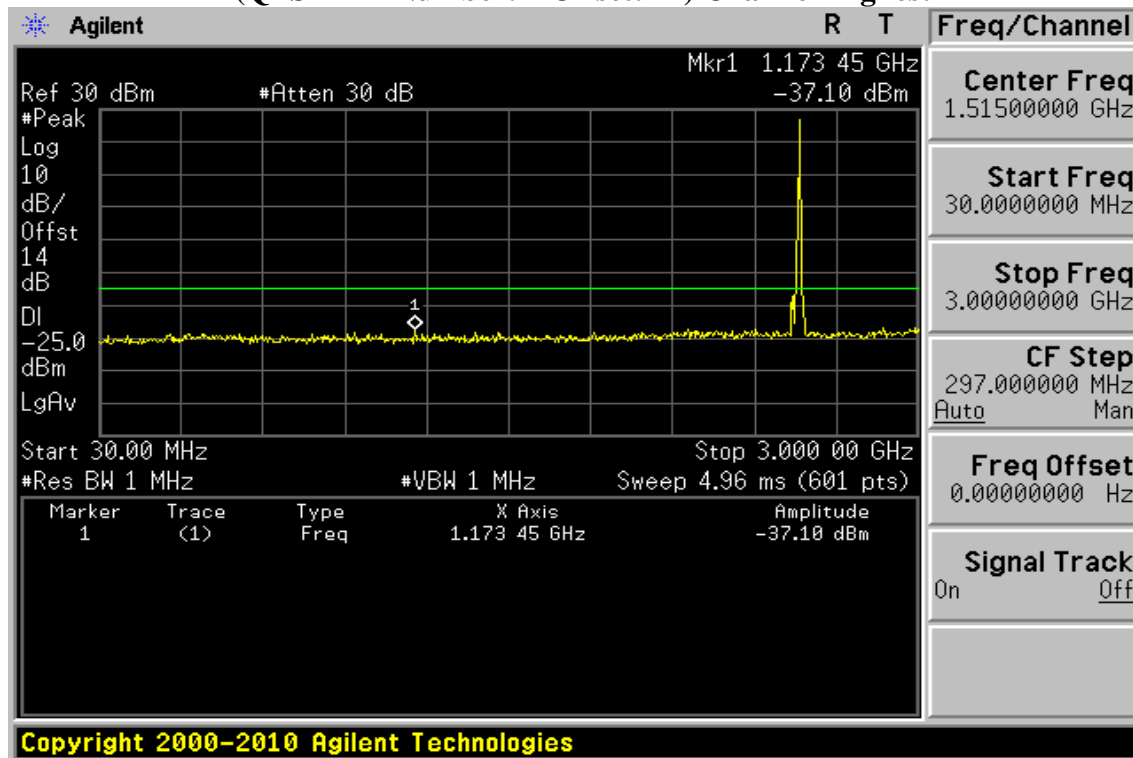
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Figure 10-163: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest



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Out of Band emission at antenna terminals –15MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 74)

Fundamental Frequency :2507.5 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	---
5015.00	H	---	-13.00	---
7522.50	H	---	-13.00	---
10030.00	H	---	-13.00	---
12537.50	H	---	-13.00	---
15045.00	H	---	-13.00	---
17552.50	H	---	-13.00	---
20060.00	H	---	-13.00	---
22567.50	H	---	-13.00	---
25075.00	H	---	-13.00	---
25545.00	S	-26.82	-13.00	13.82

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

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Fundamental Frequency :2535 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	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25590.00	S	-26.8	-13.00	13.80

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

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Fundamental Frequency :2562.5MHz 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	---
5125.00	H	---	-13.00	---
7687.50	H	---	-13.00	---
10250.00	H	---	-13.00	---
12812.50	H	---	-13.00	---
15375.00	H	---	-13.00	---
17937.50	H	---	-13.00	---
20500.00	H	---	-13.00	---
23062.50	H	---	-13.00	---
25500.00	S	-26.28	-13.00	13.28
25625.00	H	---	-13.00	---

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

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Figure 10-164: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Lowest

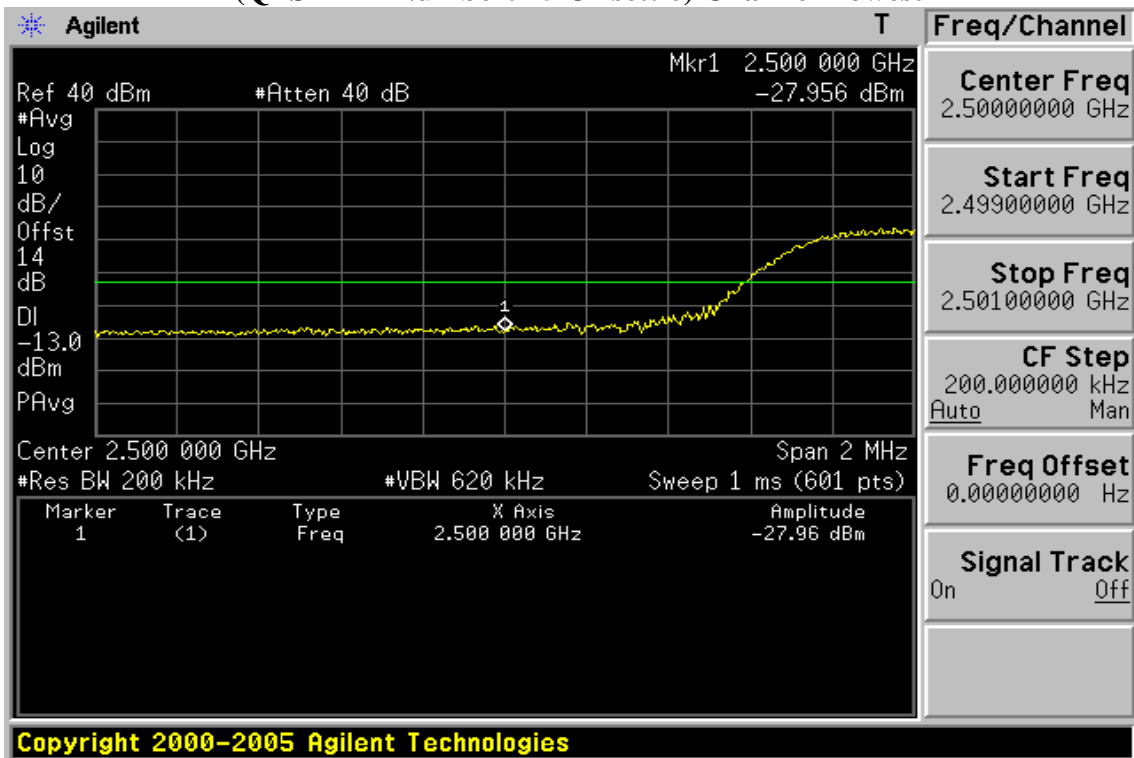


Figure 10-165: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –15MHz BW LTE-Band 7

(QPSK RB Number: 75 Offset: 0)

Test Mode 15MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-27.96	-13.00	14.96
2570.000	-28.50	-13.00	15.50

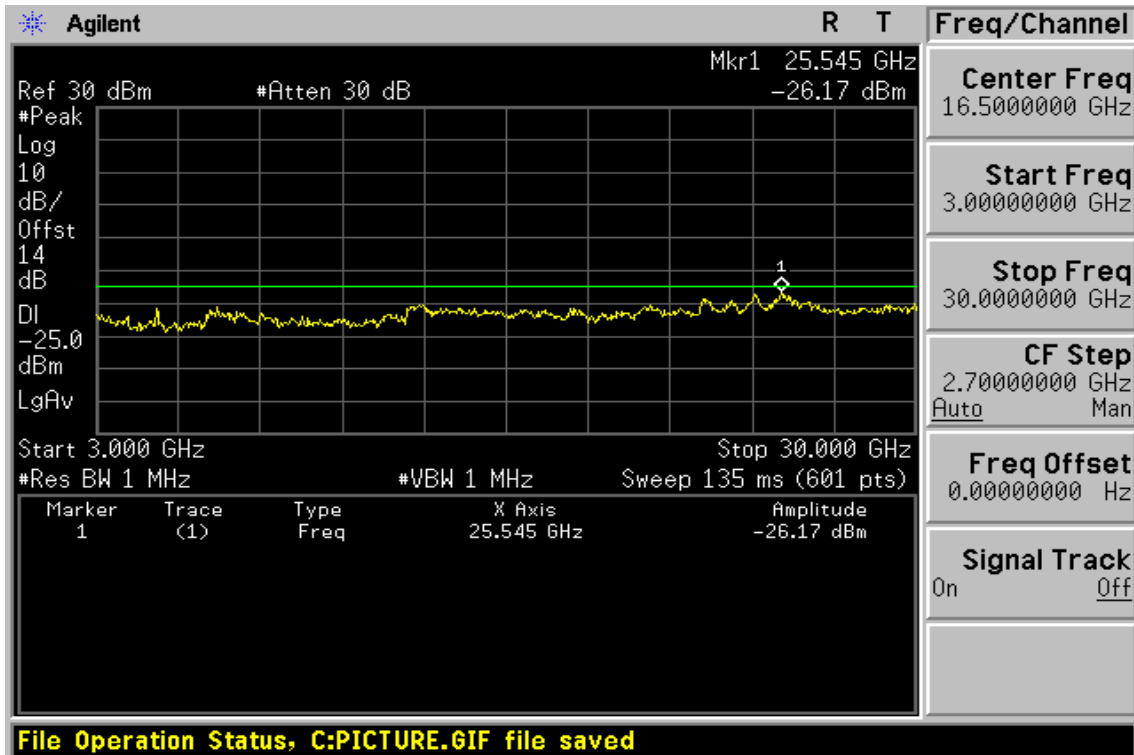
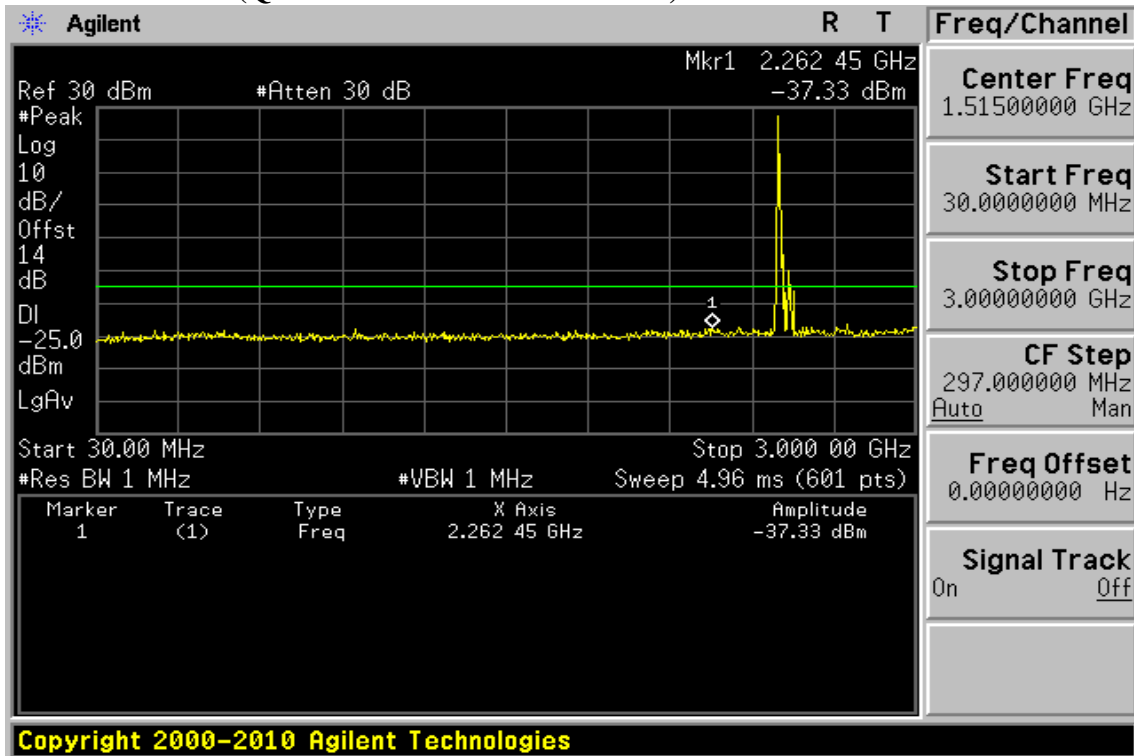
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Figure 10-166: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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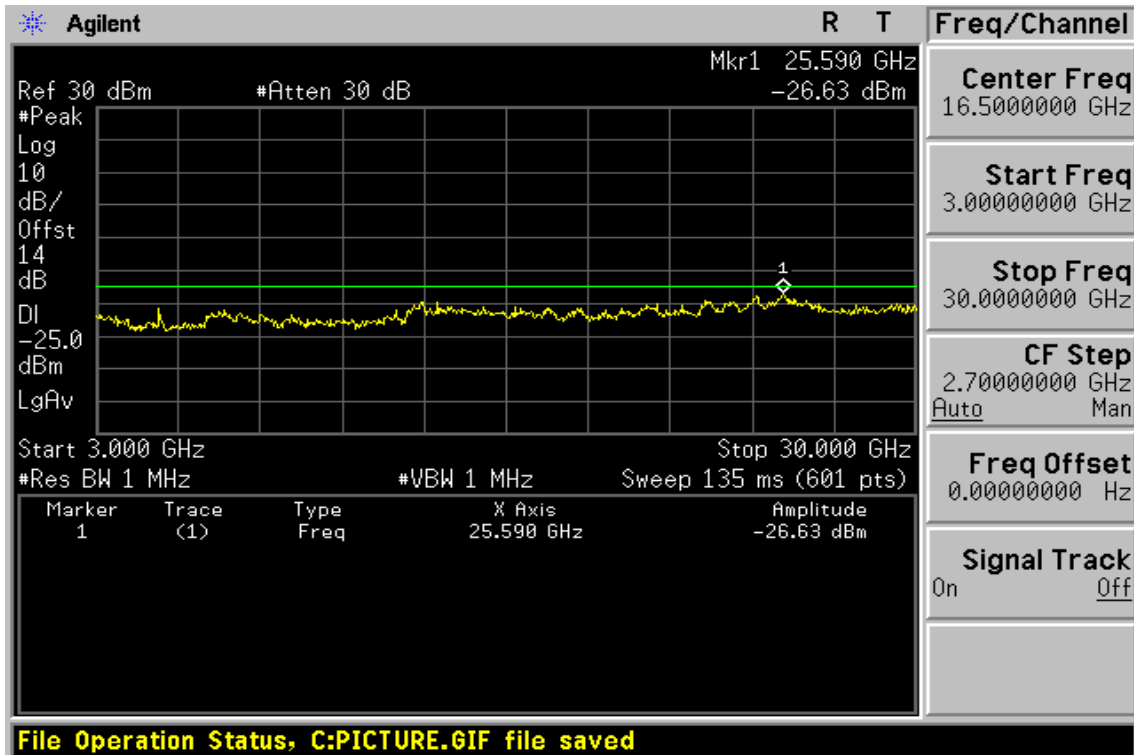
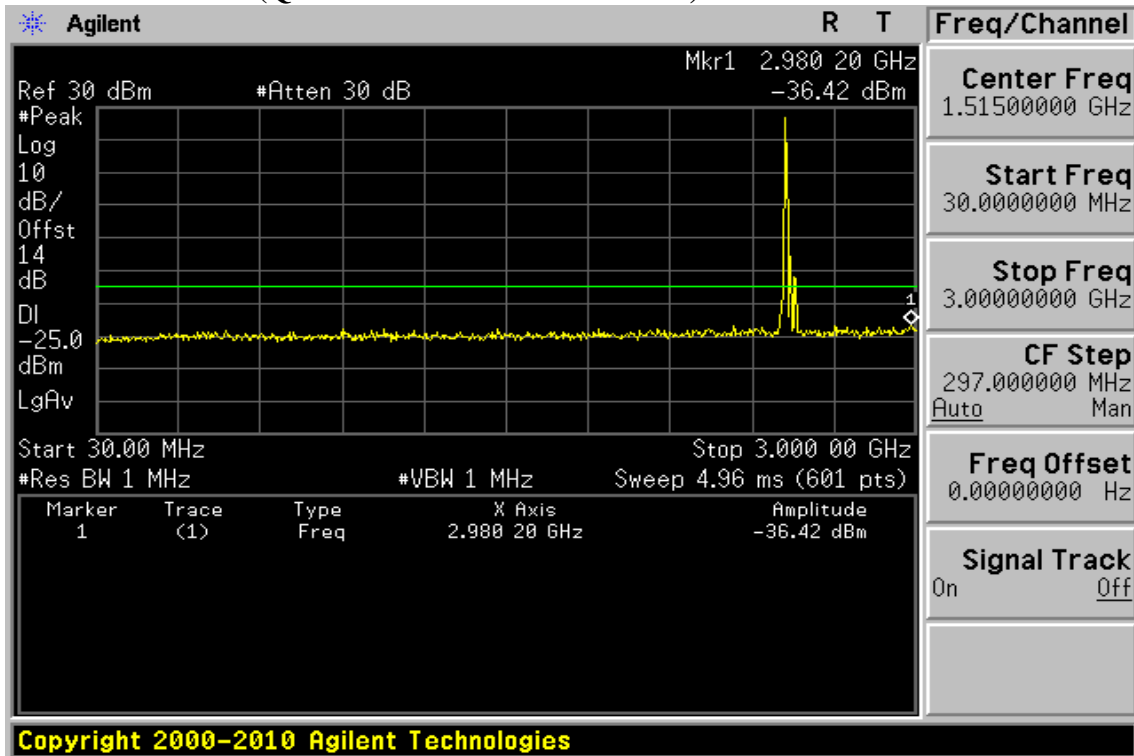
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Figure 10-167: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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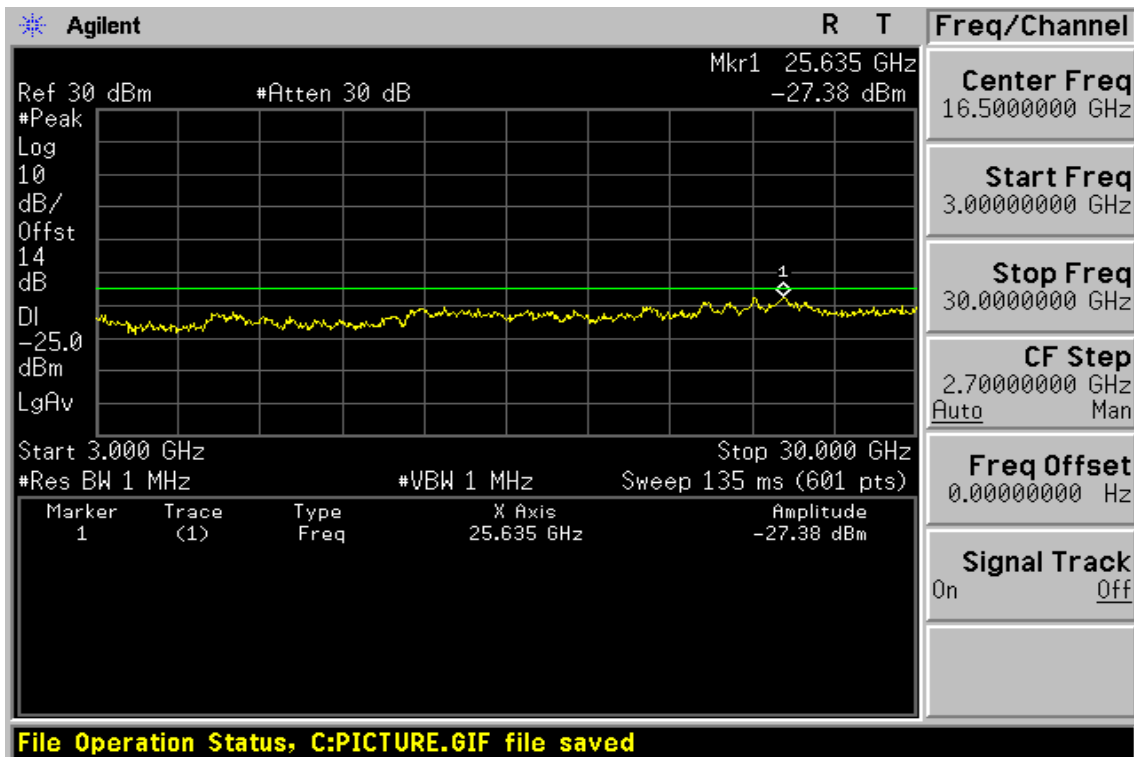
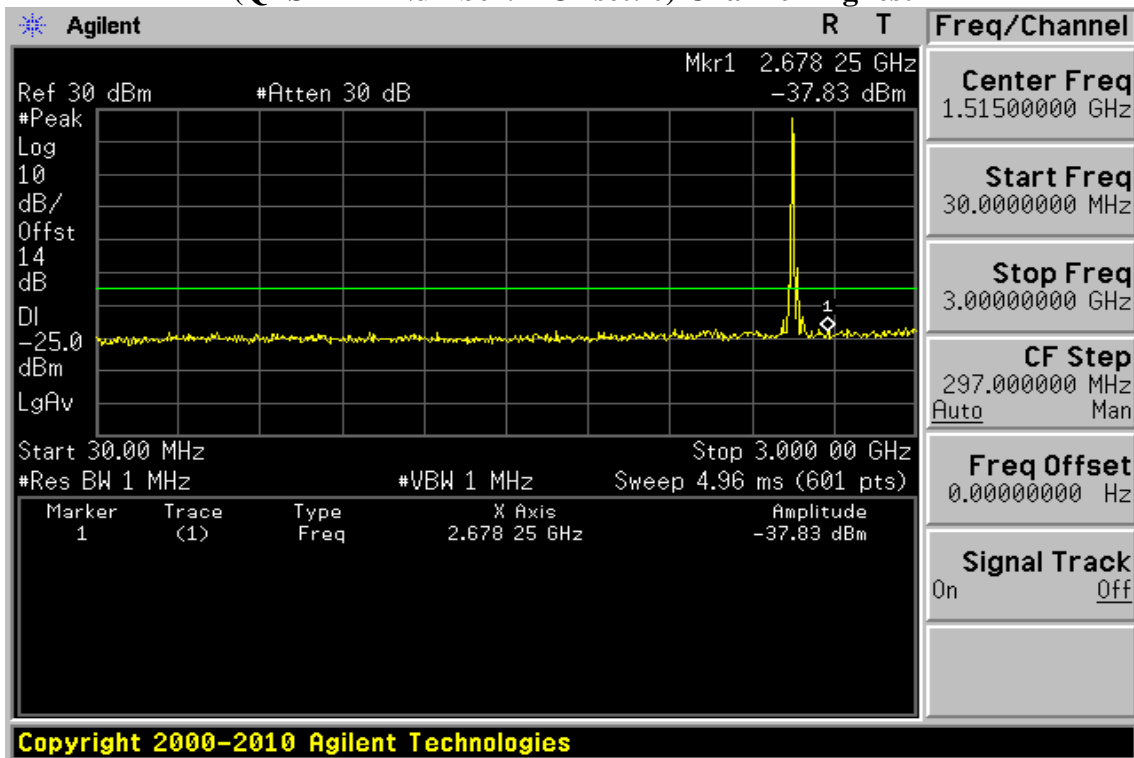
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Figure 10-168: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –20MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2510 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	---
5020.00	H	---	-13.00	---
7530.00	H	---	-13.00	---
10040.00	H	---	-13.00	---
12550.00	H	---	-13.00	---
15060.00	H	---	-13.00	---
17570.00	H	---	-13.00	---
20080.00	H	---	-13.00	---
22590.00	H	---	-13.00	---
25100.00	H	---	-13.00	---
25545.00	S	-26.17	-13.00	13.17

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

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Fundamental Frequency :2535 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	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25590.00	S	-26.63	-13.00	13.63

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

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Fundamental Frequency :2560MHz 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	---
5120.00	H	---	-13.00	---
7680.00	H	---	-13.00	---
10240.00	H	---	-13.00	---
12800.00	H	---	-13.00	---
15360.00	H	---	-13.00	---
17920.00	H	---	-13.00	---
20480.00	H	---	-13.00	---
23040.00	H	---	-13.00	---
25600.00	H	---	-13.00	---
25635.00	S	-27.38	-13.00	14.38

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

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Figure 10-169: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

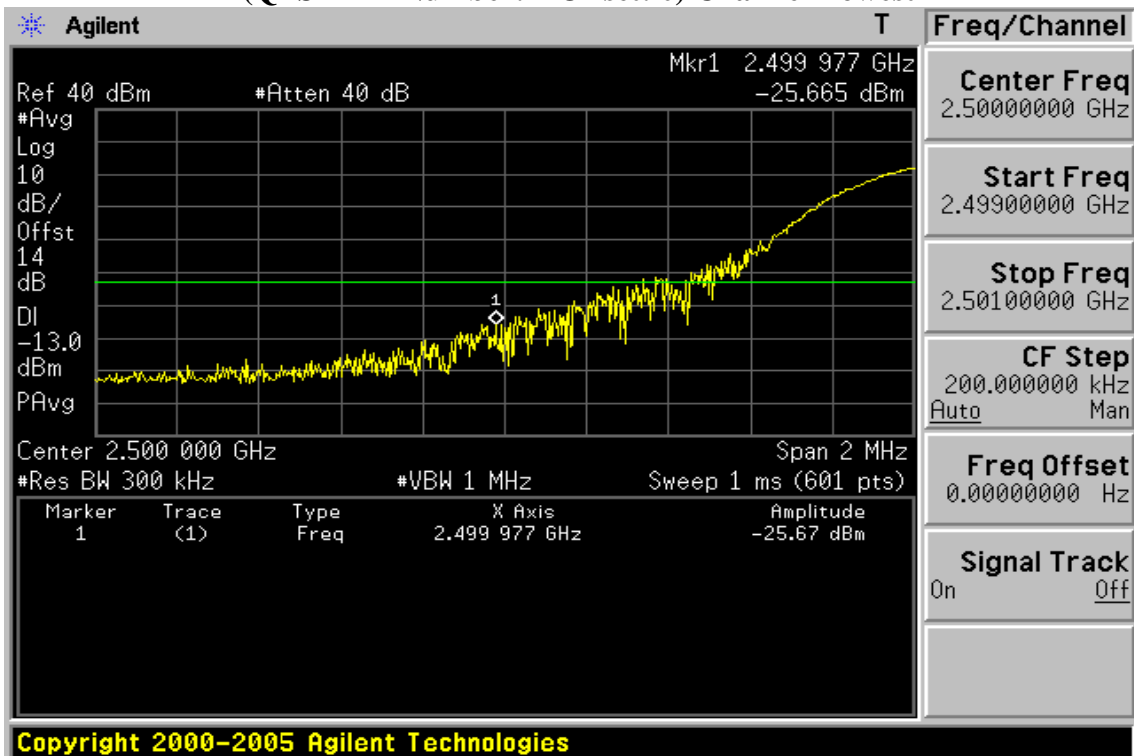
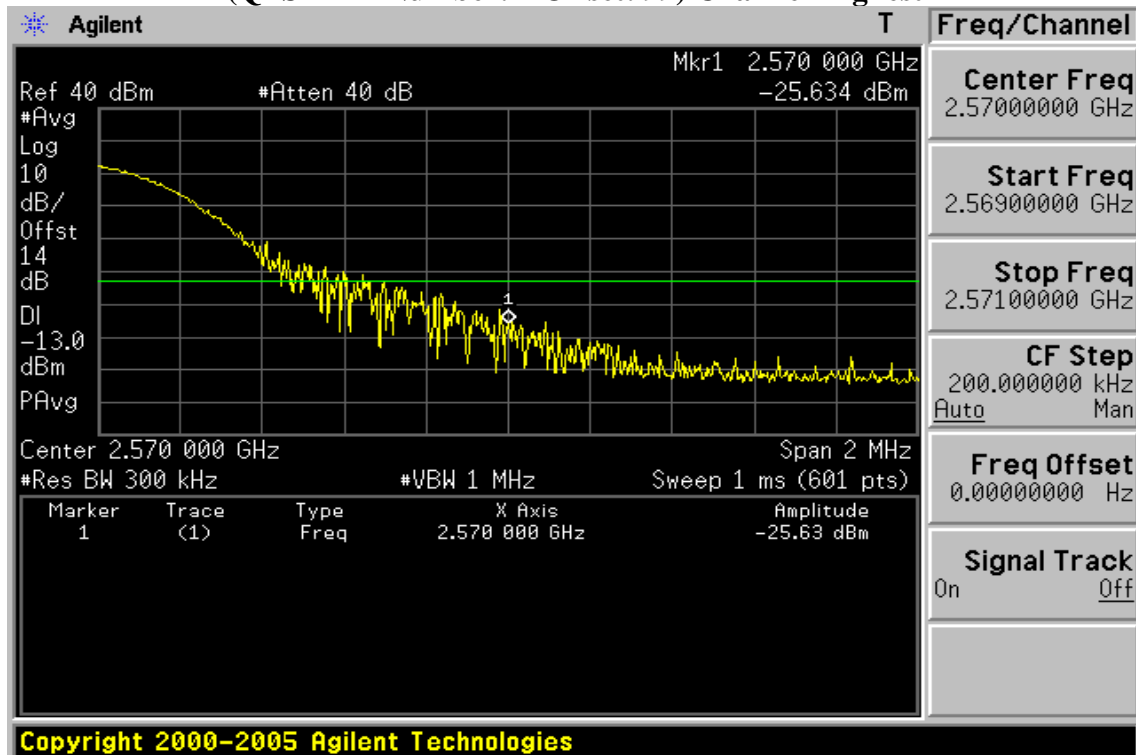


Figure 10-170: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest



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Band edge emission at antenna terminals –20MHz BW LTE-Band 7**(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99)**

Test Mode 20MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2499.977	-25.67	-13.00	12.67
2570.000	-25.63	-13.00	12.63

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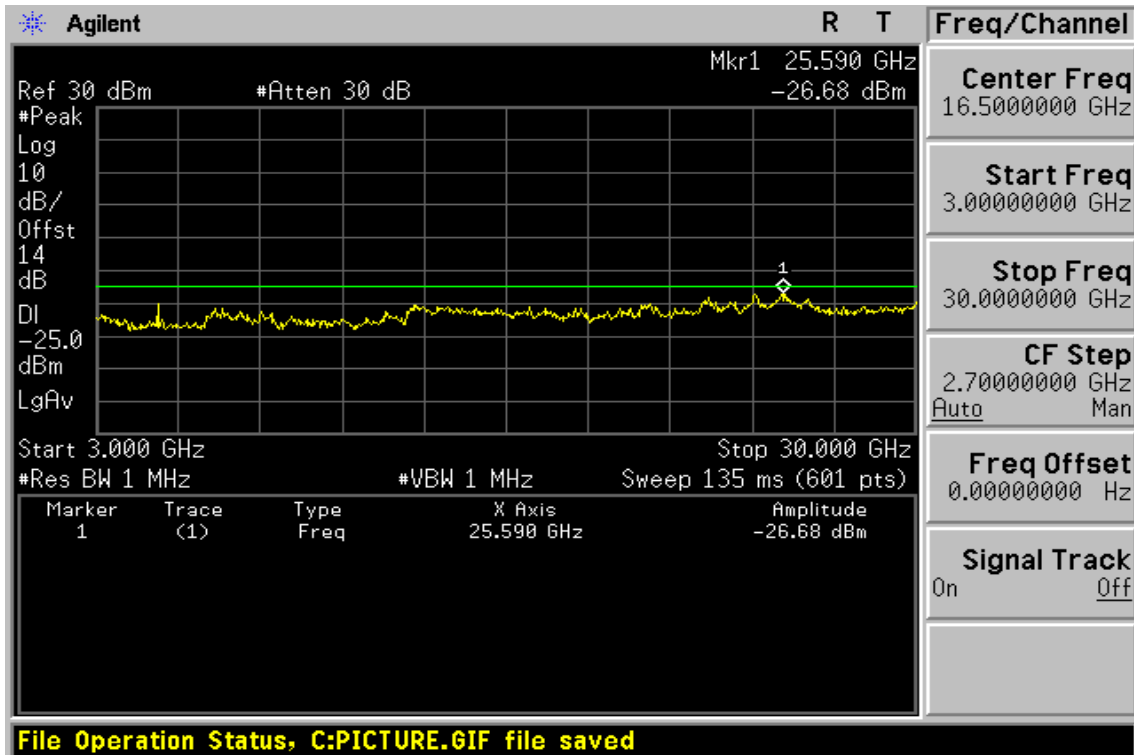
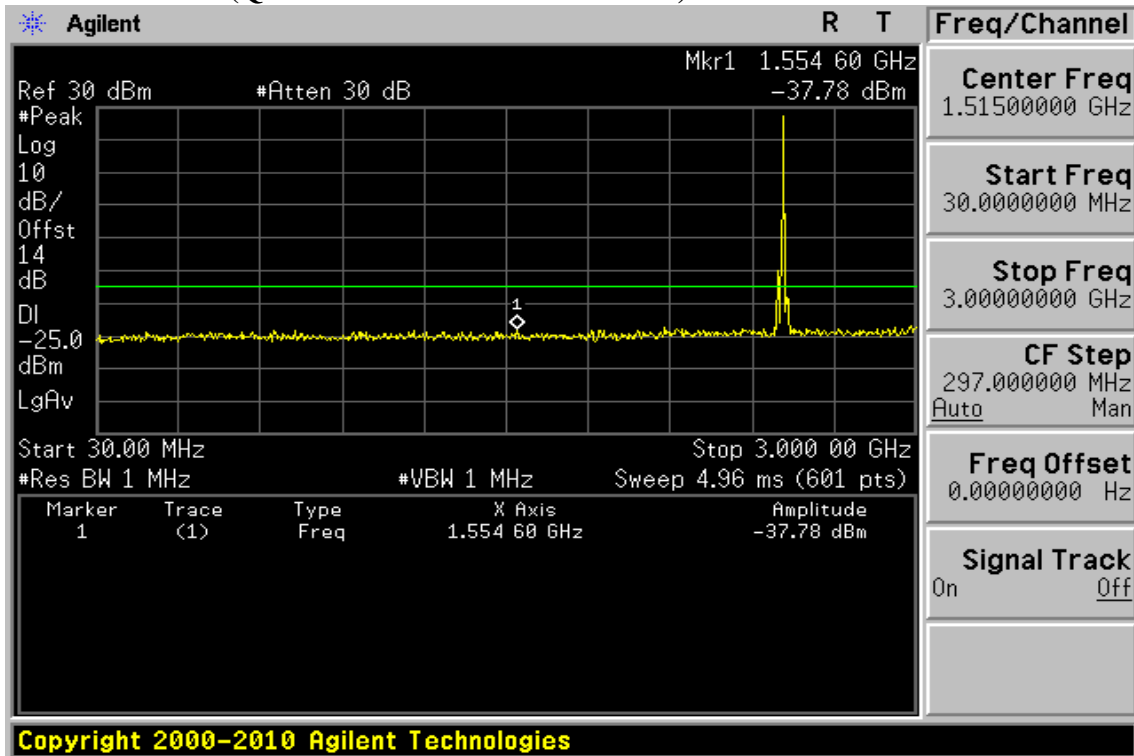
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Figure 10-171: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Lowest



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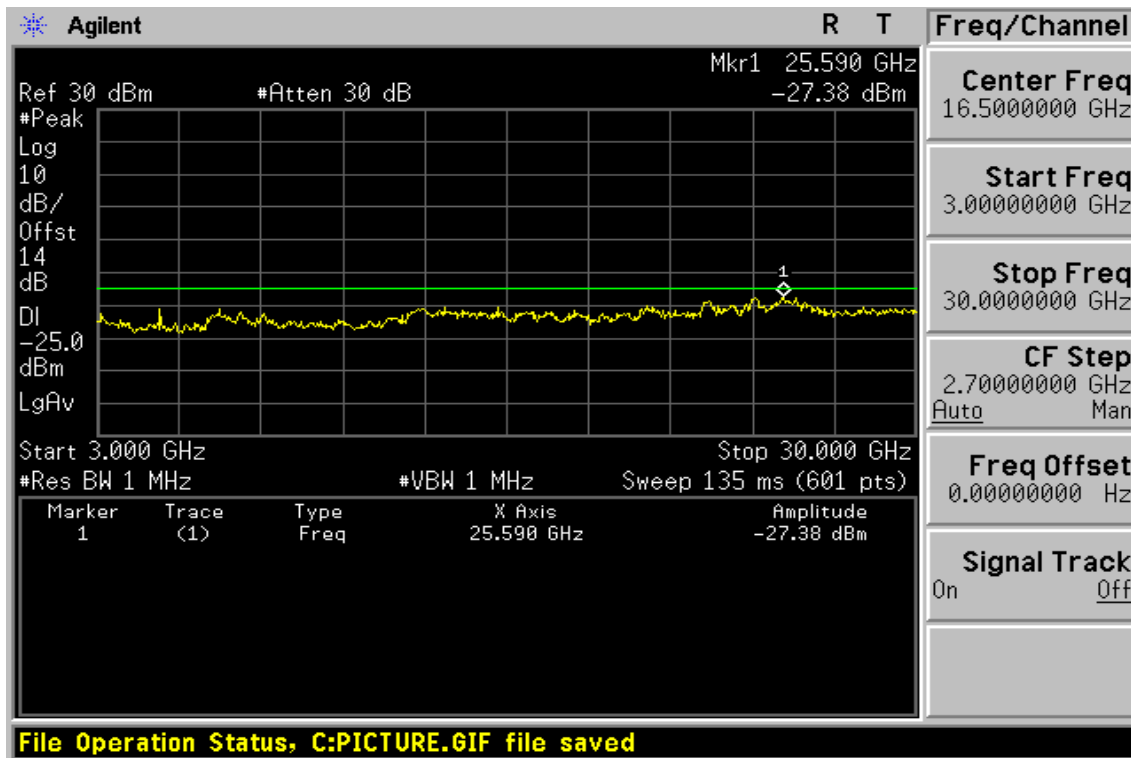
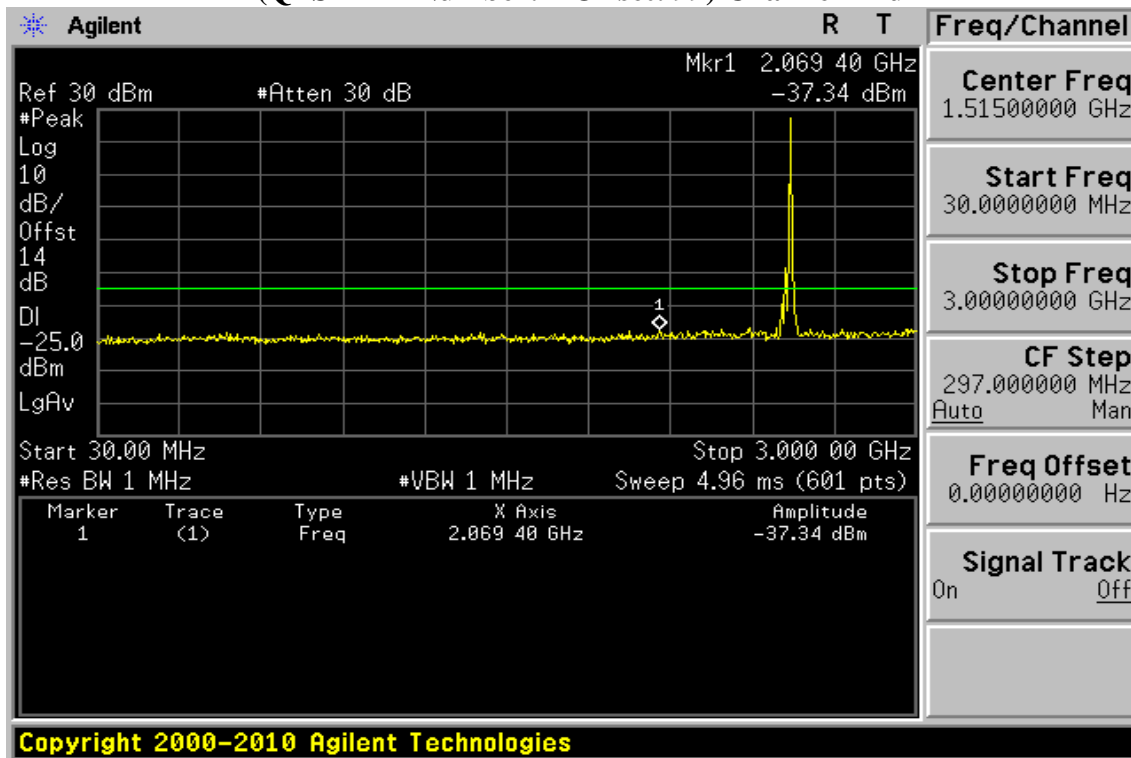
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Figure 10-172: Out of Band emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Mid



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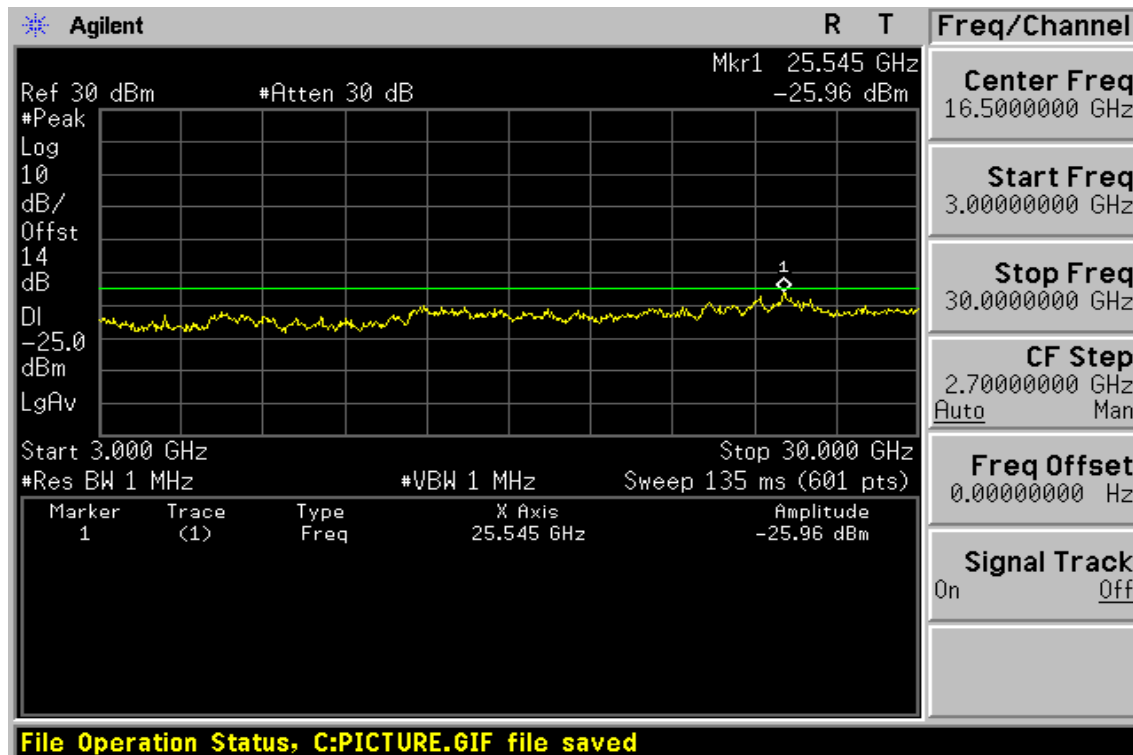
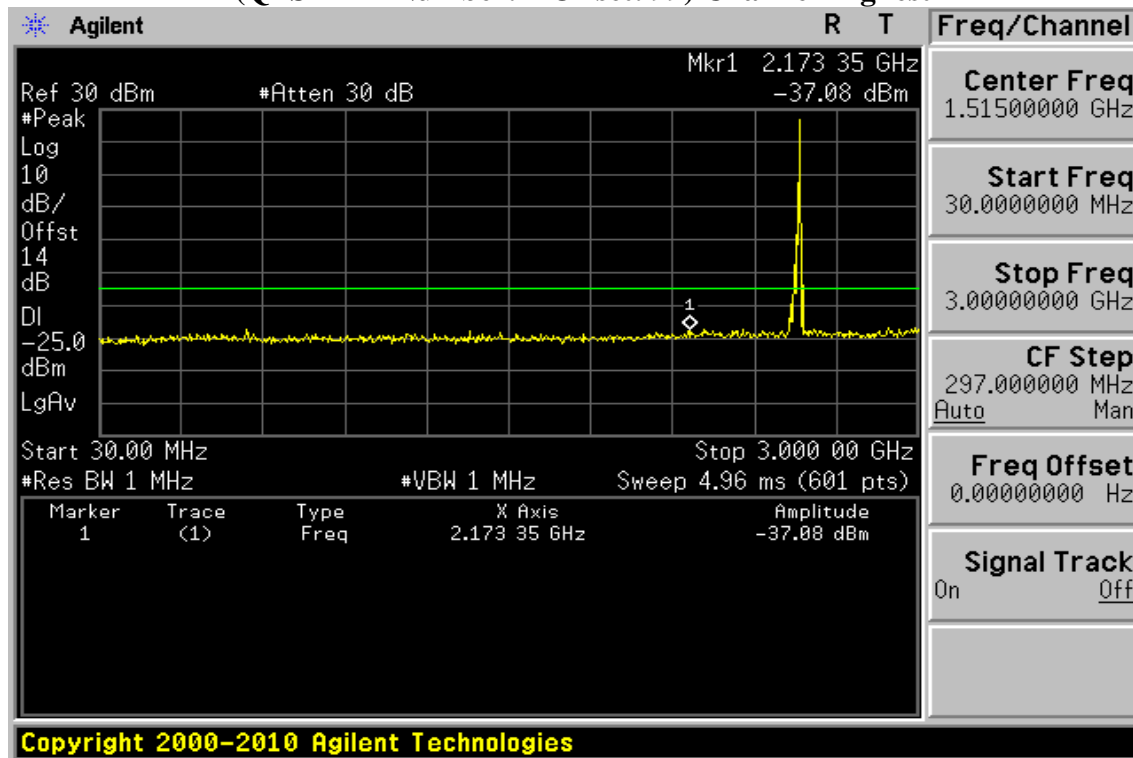
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Figure 10-173: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest



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Out of Band emission at antenna terminals –20MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 99)

Fundamental Frequency :2510 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	---
5020.00	H	---	-13.00	---
7530.00	H	---	-13.00	---
10040.00	H	---	-13.00	---
12550.00	H	---	-13.00	---
15060.00	H	---	-13.00	---
17570.00	H	---	-13.00	---
20080.00	H	---	-13.00	---
22590.00	H	---	-13.00	---
25100.00	H	---	-13.00	---
25590.00	S	-26.68	-13.00	13.68

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

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Fundamental Frequency :2535 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	---
5070.00	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25590.00	S	-27.38	-13.00	14.38

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

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Fundamental Frequency :2560MHz 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	---
5120.00	H	---	-13.00	---
7680.00	H	---	-13.00	---
10240.00	H	---	-13.00	---
12800.00	H	---	-13.00	---
15360.00	H	---	-13.00	---
17920.00	H	---	-13.00	---
20480.00	H	---	-13.00	---
23040.00	H	---	-13.00	---
25545.00	S	-25.96	-13.00	12.96
25600.00	H	---	-13.00	---

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

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Figure 10-174: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Lowest

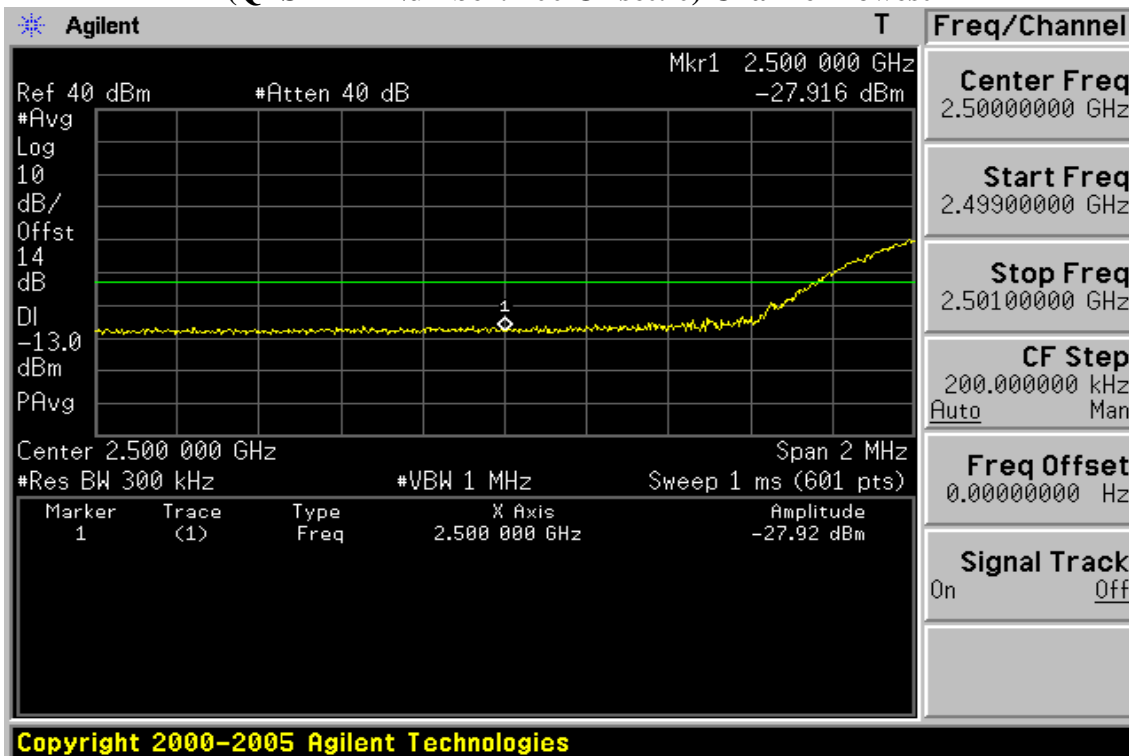
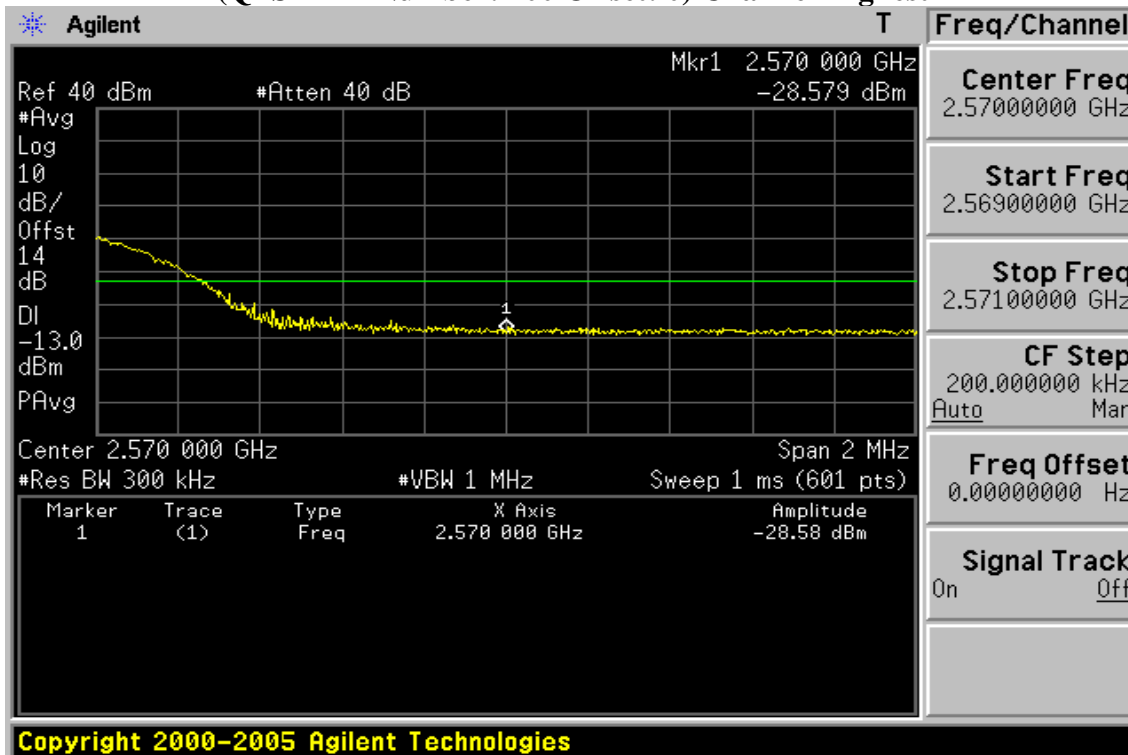


Figure 10-175: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –20MHz BW LTE-Band 7

(QPSK RB Number: 100 Offset: 0)

Test Mode 20MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-27.92	-13.00	14.92
2570.000	-28.58	-13.00	15.58

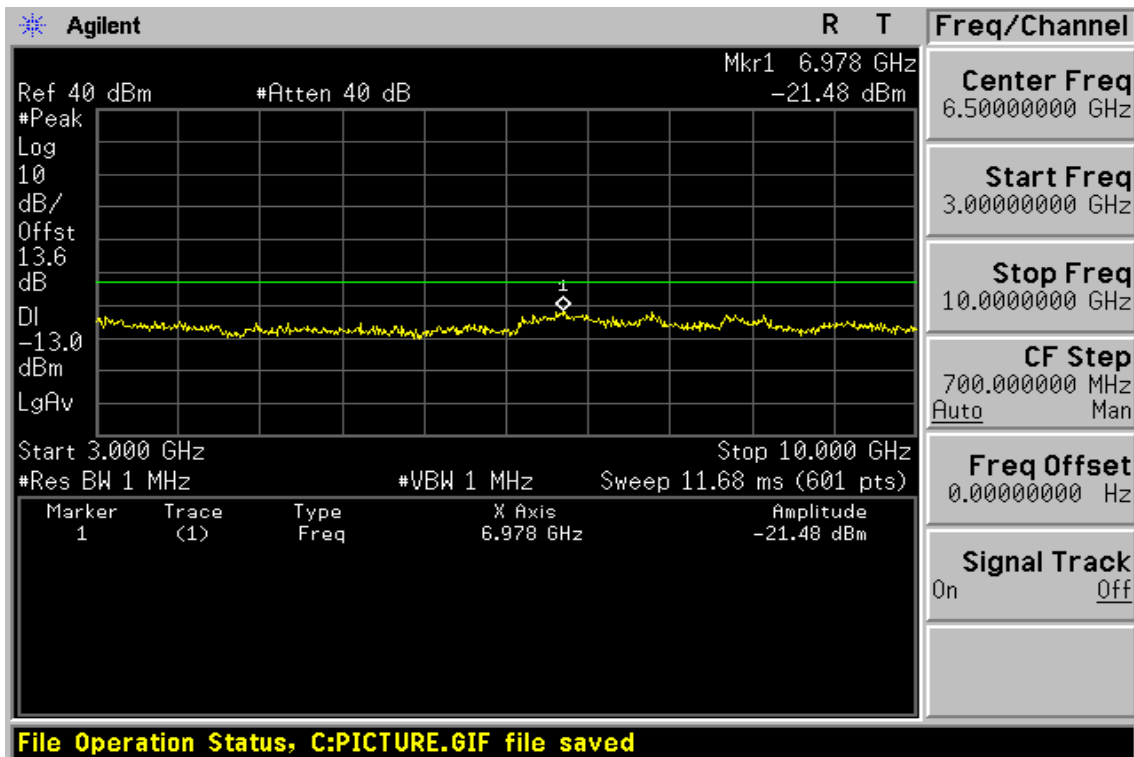
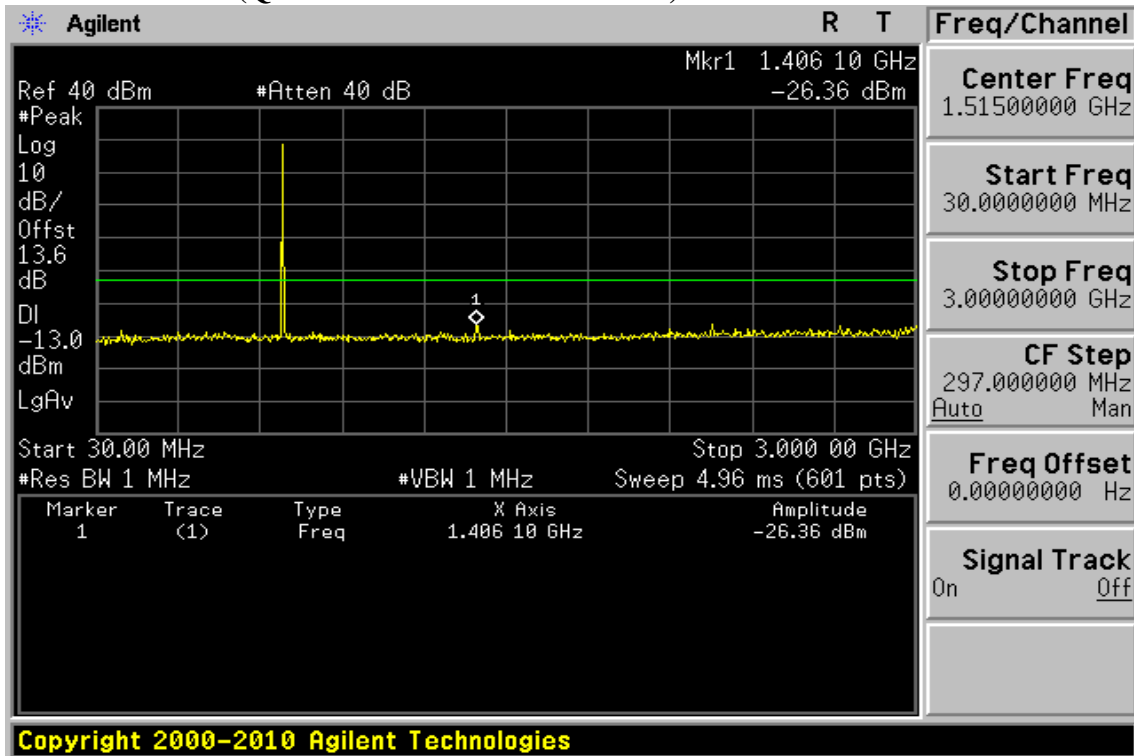
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Figure 10-176: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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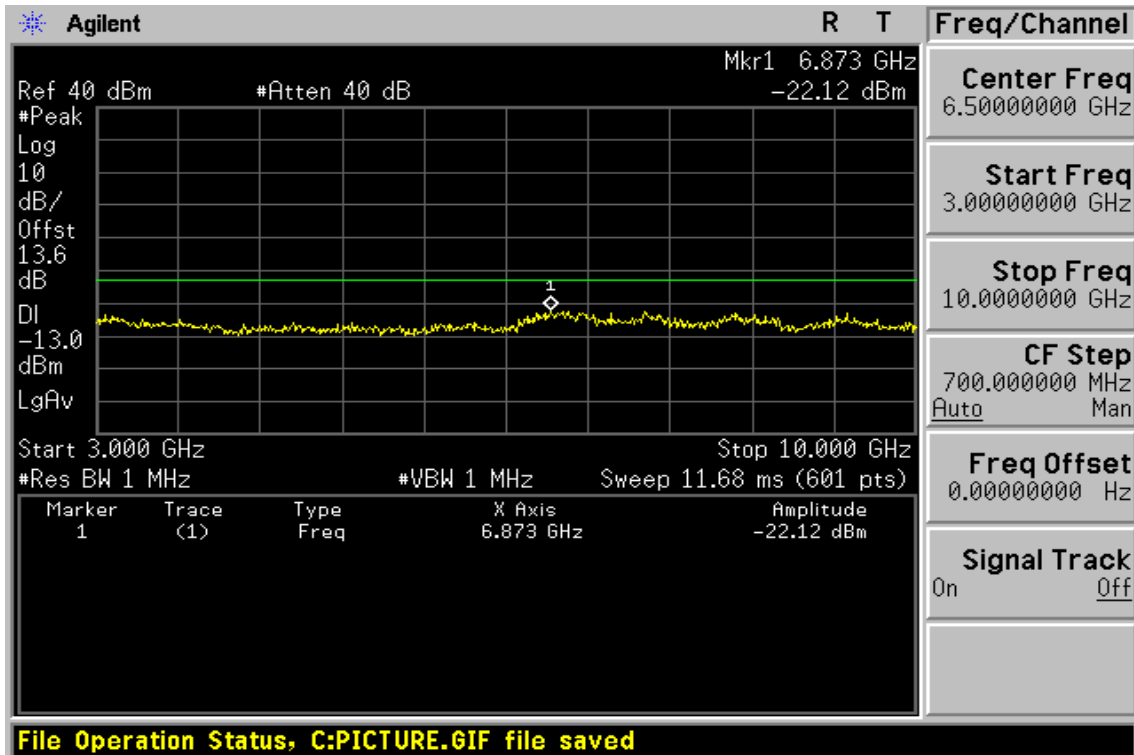
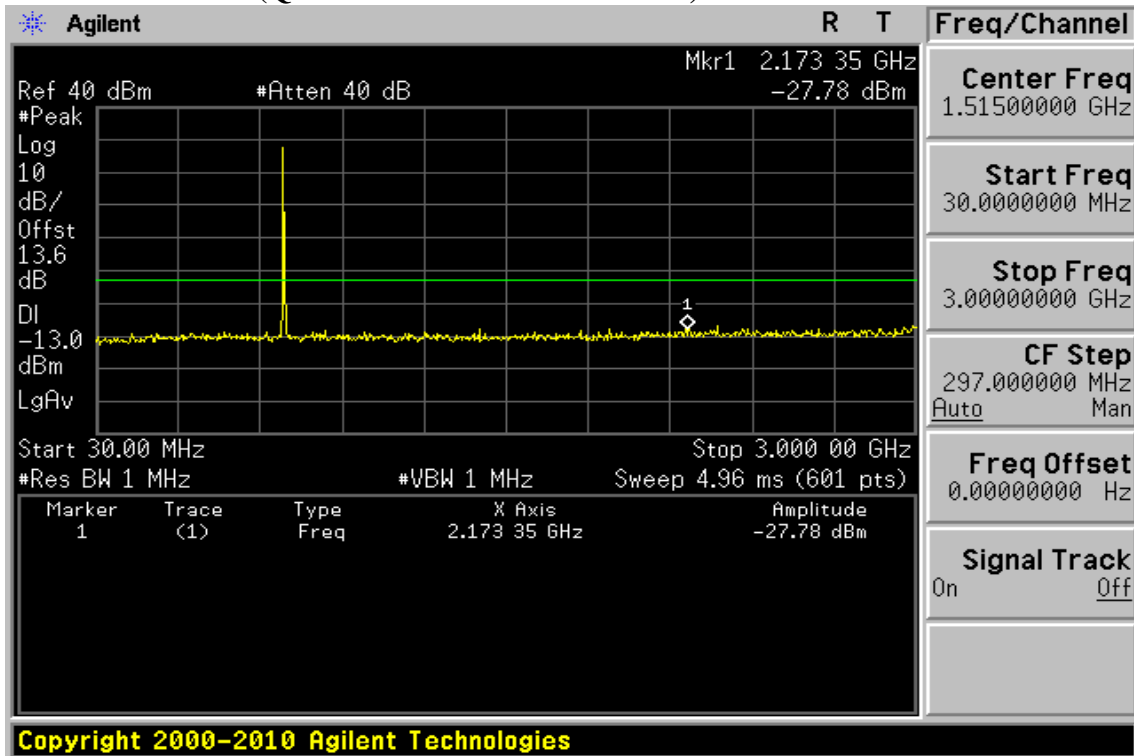
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Figure 10-177: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid



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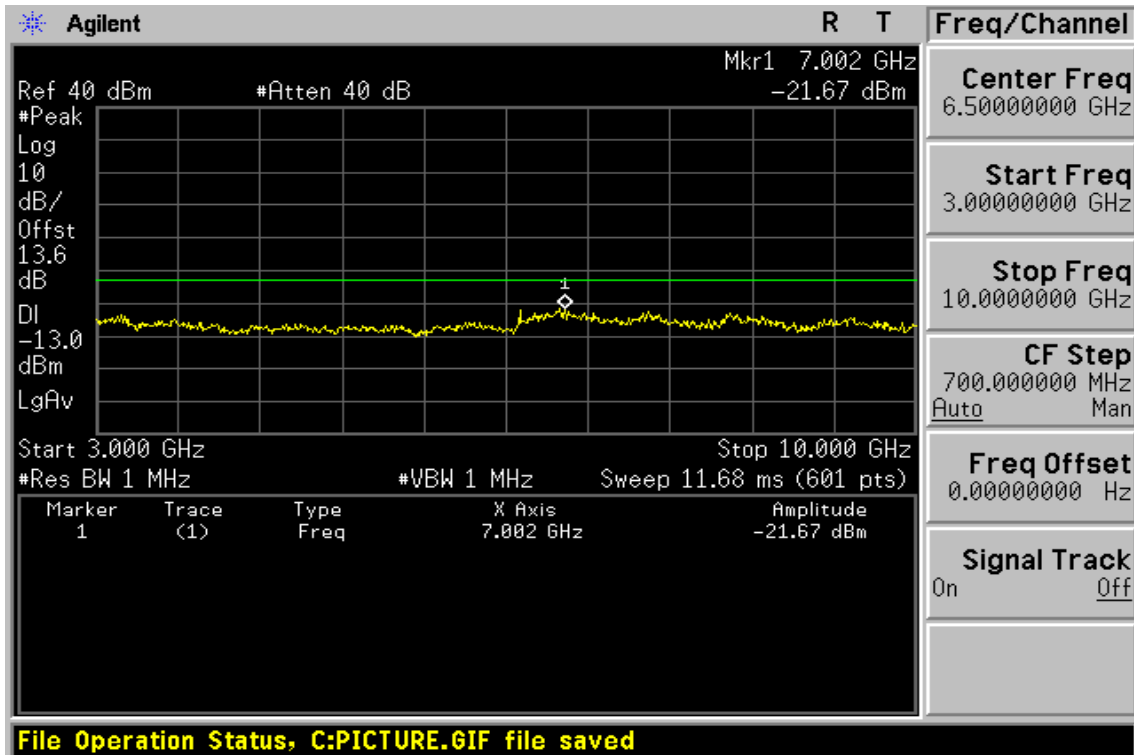
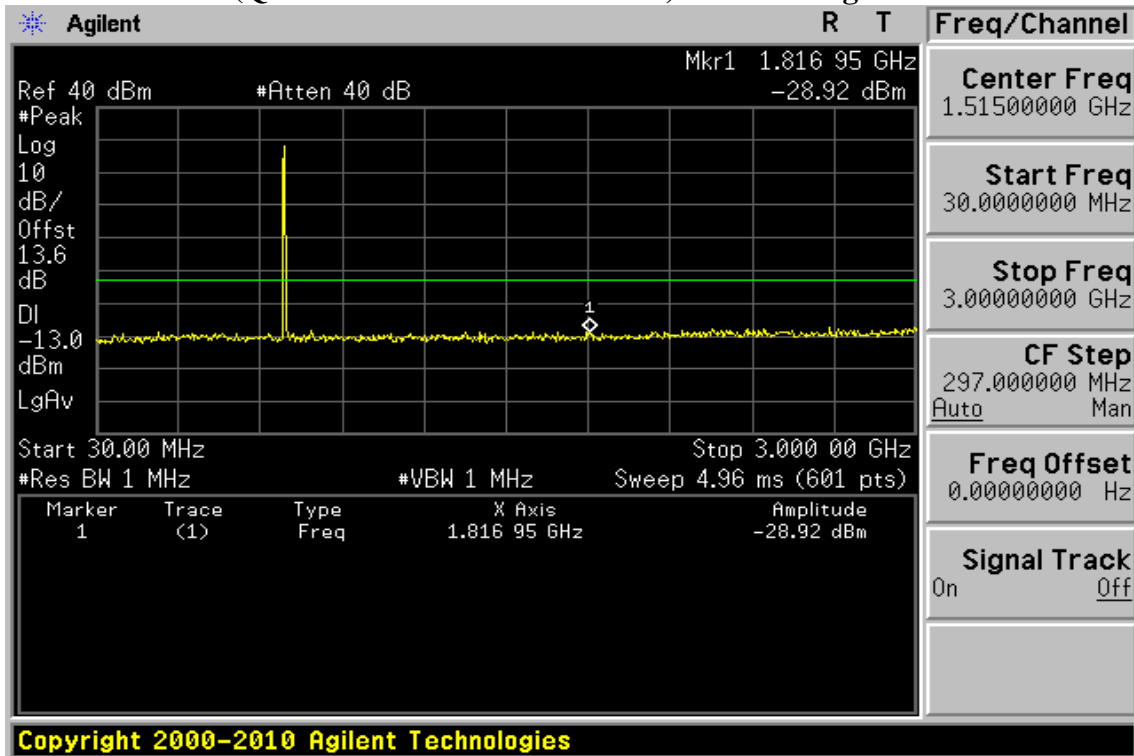
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Figure 10-178: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –5MHz BW LTE-Band 17

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :706.5 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	---
1413.00	H	---	-13.00	---
2119.50	H	---	-13.00	---
2826.00	H	---	-13.00	---
3532.50	H	---	-13.00	---
4239.00	H	---	-13.00	---
4945.50	H	---	-13.00	---
5652.00	H	---	-13.00	---
6358.50	H	---	-13.00	---
6978.00	S	-21.48	-13.00	8.48
7065.00	H	---	-13.00	---

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

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Fundamental Frequency :710 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	---
1420.00	H	---	-13.00	---
2130.00	H	---	-13.00	---
2840.00	H	---	-13.00	---
3550.00	H	---	-13.00	---
4260.00	H	---	-13.00	---
4970.00	H	---	-13.00	---
5680.00	H	---	-13.00	---
6390.00	H	---	-13.00	---
6873.00	S	-22.12	-13.00	9.12
7100.00	H	---	-13.00	---

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

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Fundamental Frequency :713.5MHz 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	---
1427.00	H	---	-13.00	---
2140.50	H	---	-13.00	---
2854.00	H	---	-13.00	---
3567.50	H	---	-13.00	---
4281.00	H	---	-13.00	---
4994.50	H	---	-13.00	---
5708.00	H	---	-13.00	---
6421.50	H	---	-13.00	---
7002.00	S	-21.67	-13.00	8.67
7135.00	H	---	-13.00	---

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

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Figure 10-179: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest

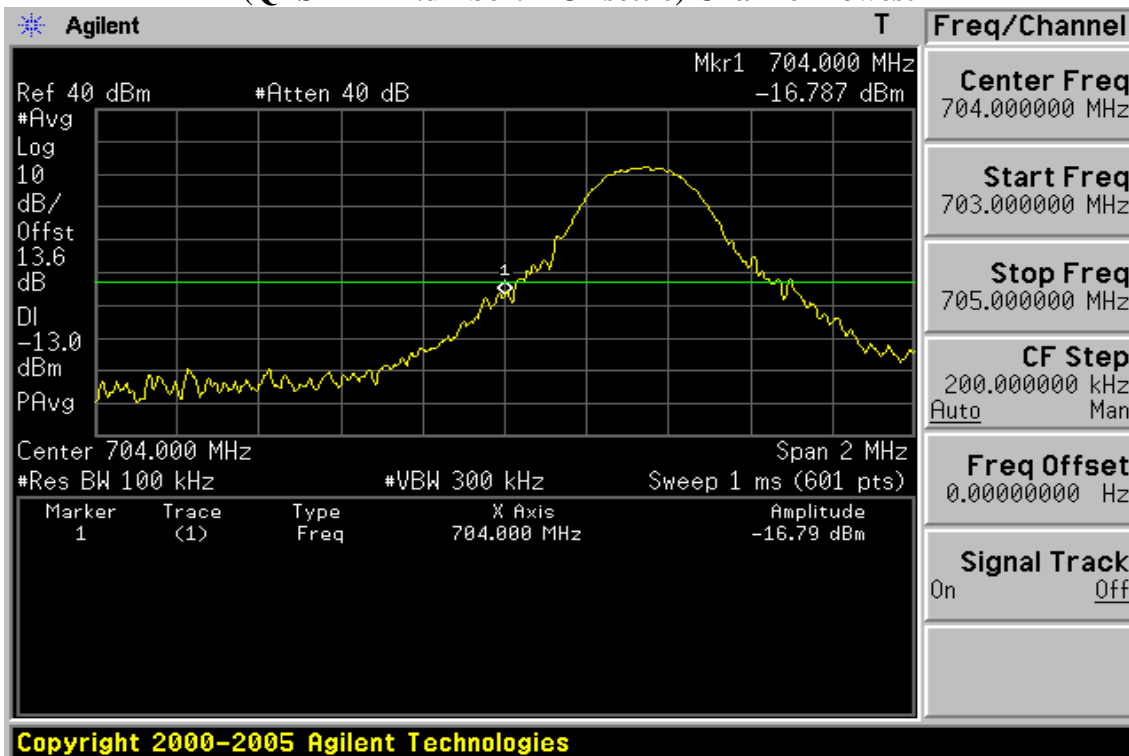
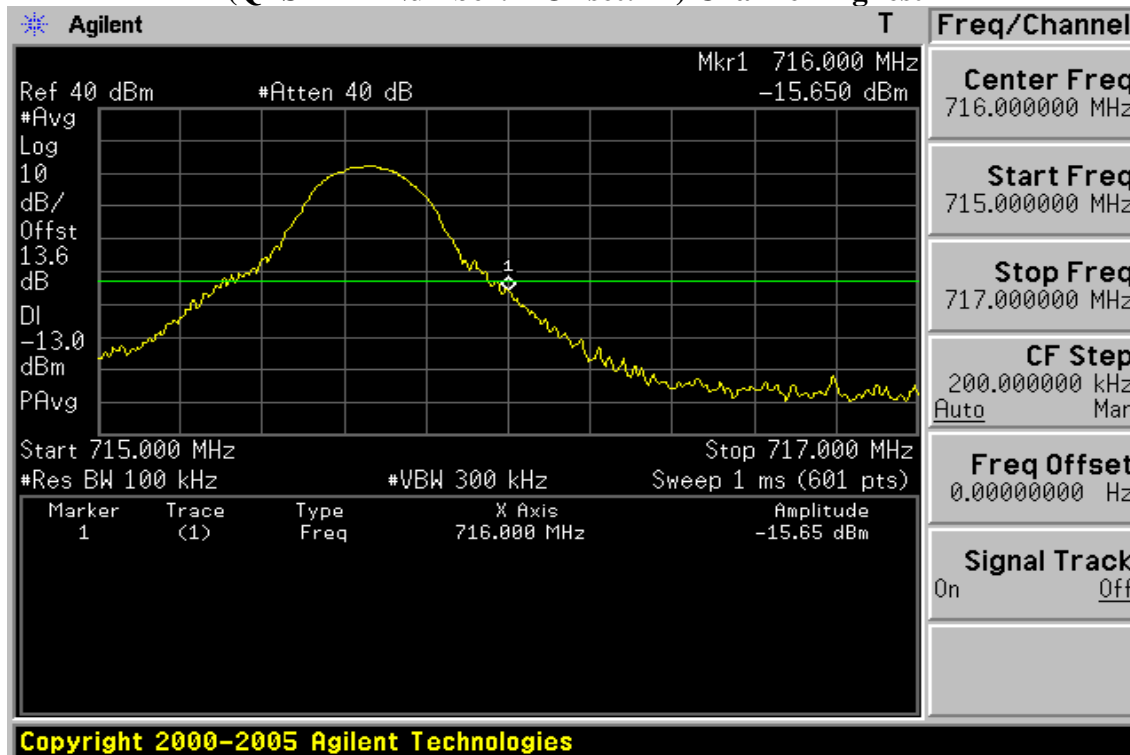


Figure 10-180: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 17

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

Test Mode 5MHz BW LTE-Band 17 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
704.000	-16.79	-13.00	3.79
716.000	-15.65	-13.00	2.65

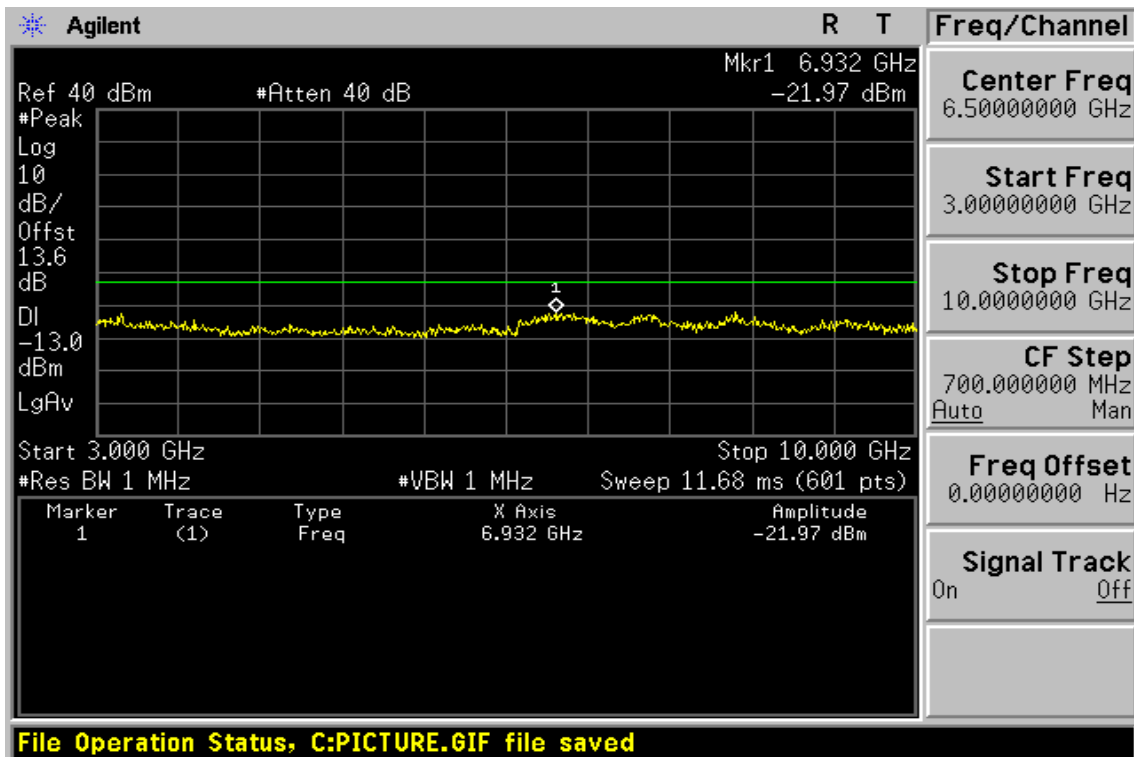
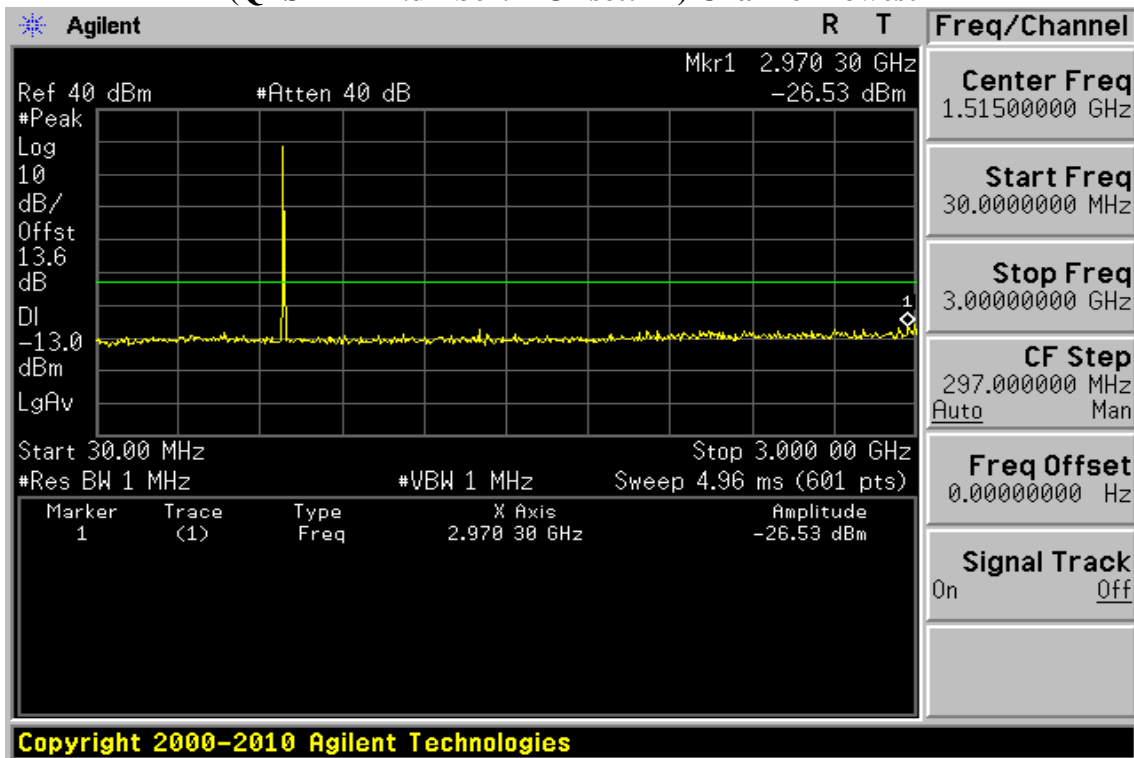
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Figure 10-181: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 24) Channel Lowest



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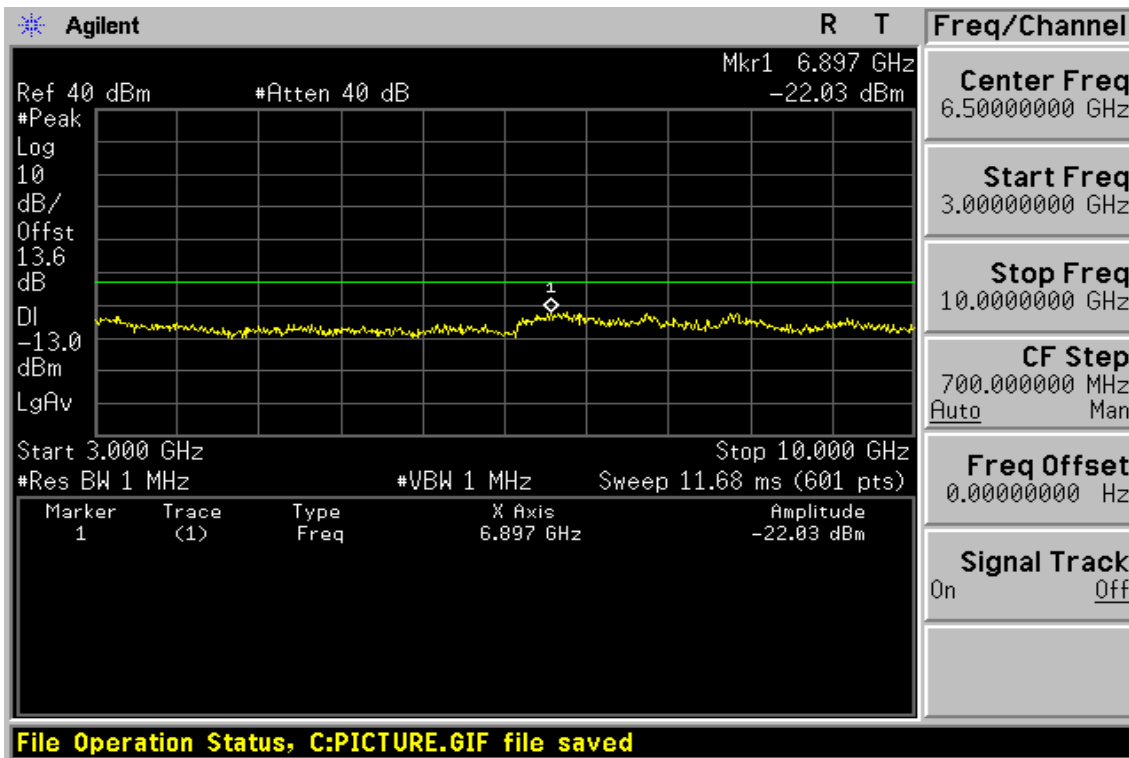
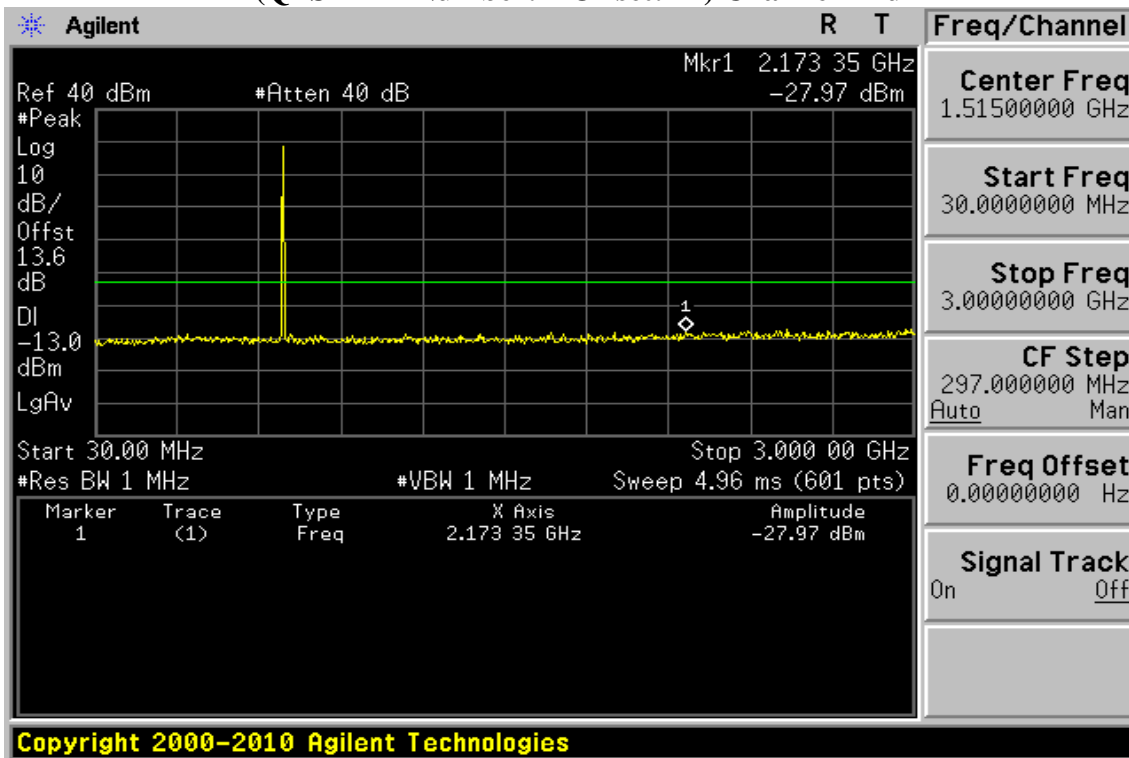
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Figure 10-182: Out of Band emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 24) Channel Mid



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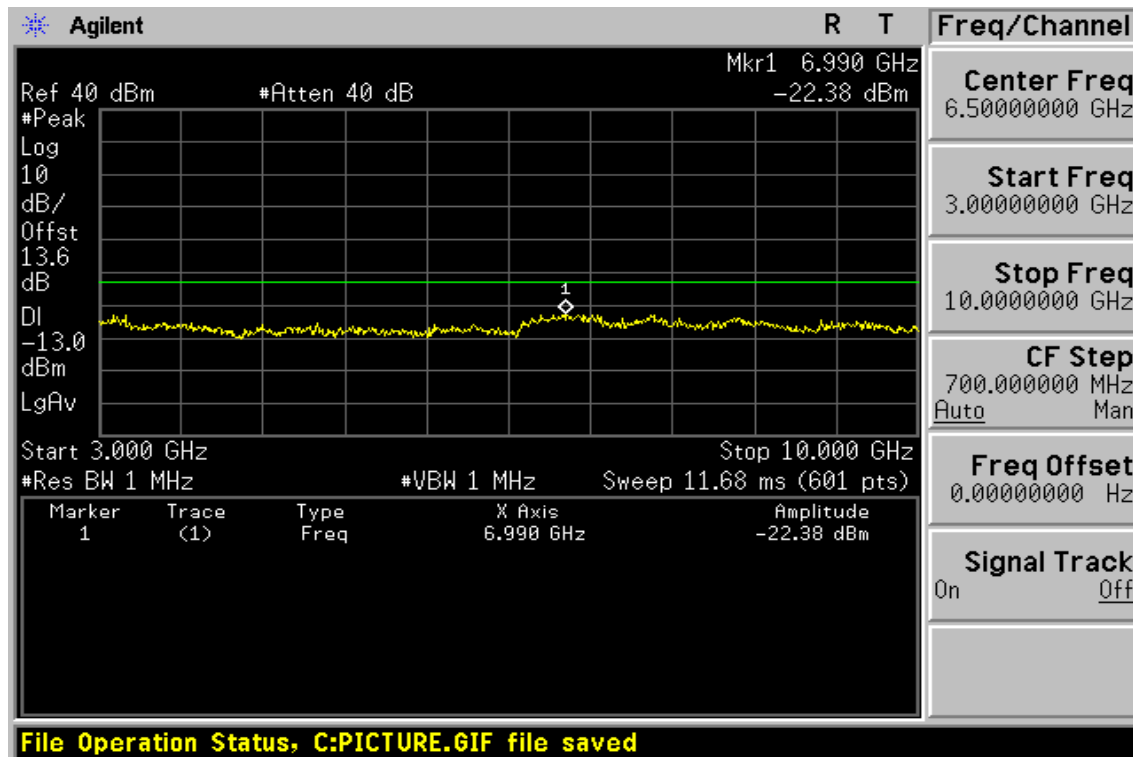
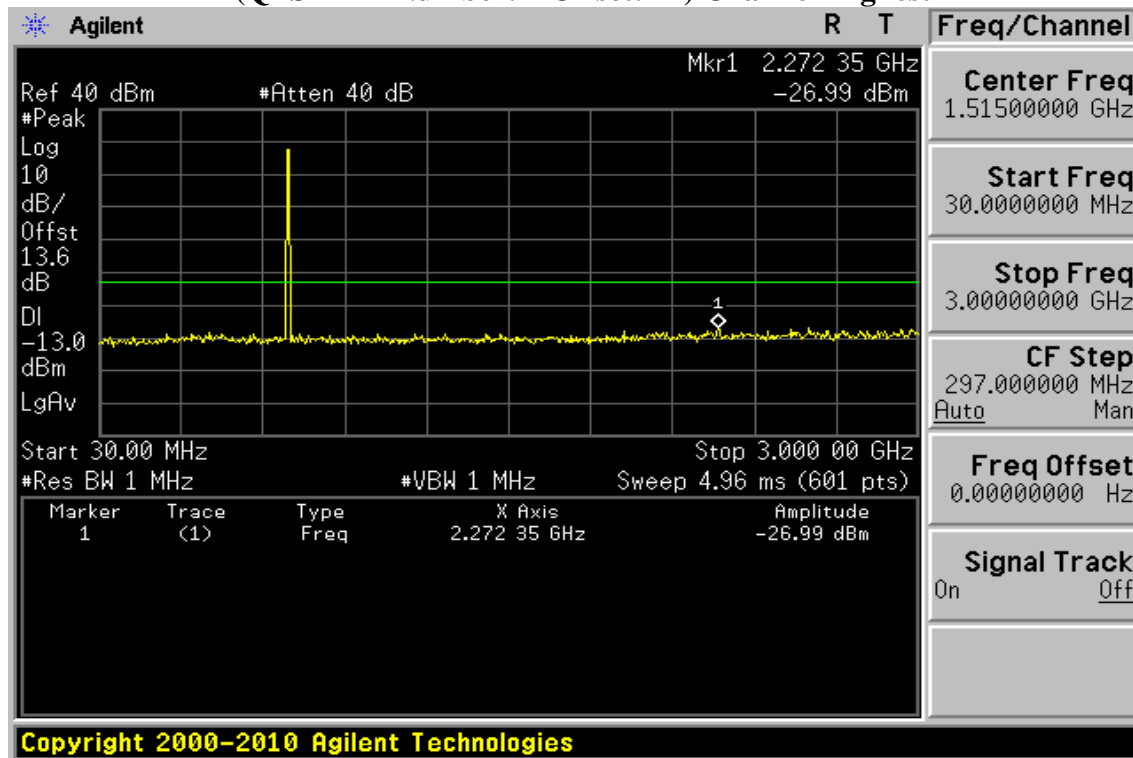
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Figure 10-183: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Out of Band emission at antenna terminals –5MHz BW LTE-Band 17

(QPSK RB Number: 1 Offset: 24)

Fundamental Frequency :706.5 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	---
1413.00	H	---	-13.00	---
2119.50	H	---	-13.00	---
2826.00	H	---	-13.00	---
3532.50	H	---	-13.00	---
4239.00	H	---	-13.00	---
4945.50	H	---	-13.00	---
5652.00	H	---	-13.00	---
6358.50	H	---	-13.00	---
6932.00	S	-21.97	-13.00	8.97
7065.00	H	---	-13.00	---

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

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Fundamental Frequency :710 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	---
1420.00	H	---	-13.00	---
2130.00	H	---	-13.00	---
2840.00	H	---	-13.00	---
3550.00	H	---	-13.00	---
4260.00	H	---	-13.00	---
4970.00	H	---	-13.00	---
5680.00	H	---	-13.00	---
6390.00	H	---	-13.00	---
6897.00	S	-22.03	-13.00	9.03
7100.00	H	---	-13.00	---

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

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Fundamental Frequency :713.5MHz 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	---
1427.00	H	---	-13.00	---
2140.50	H	---	-13.00	---
2854.00	H	---	-13.00	---
3567.50	H	---	-13.00	---
4281.00	H	---	-13.00	---
4994.50	H	---	-13.00	---
5708.00	H	---	-13.00	---
6421.50	H	---	-13.00	---
6990.00	S	-22.38	-13.00	9.38
7135.00	H	---	-13.00	---

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

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Figure 10-184: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Lowest

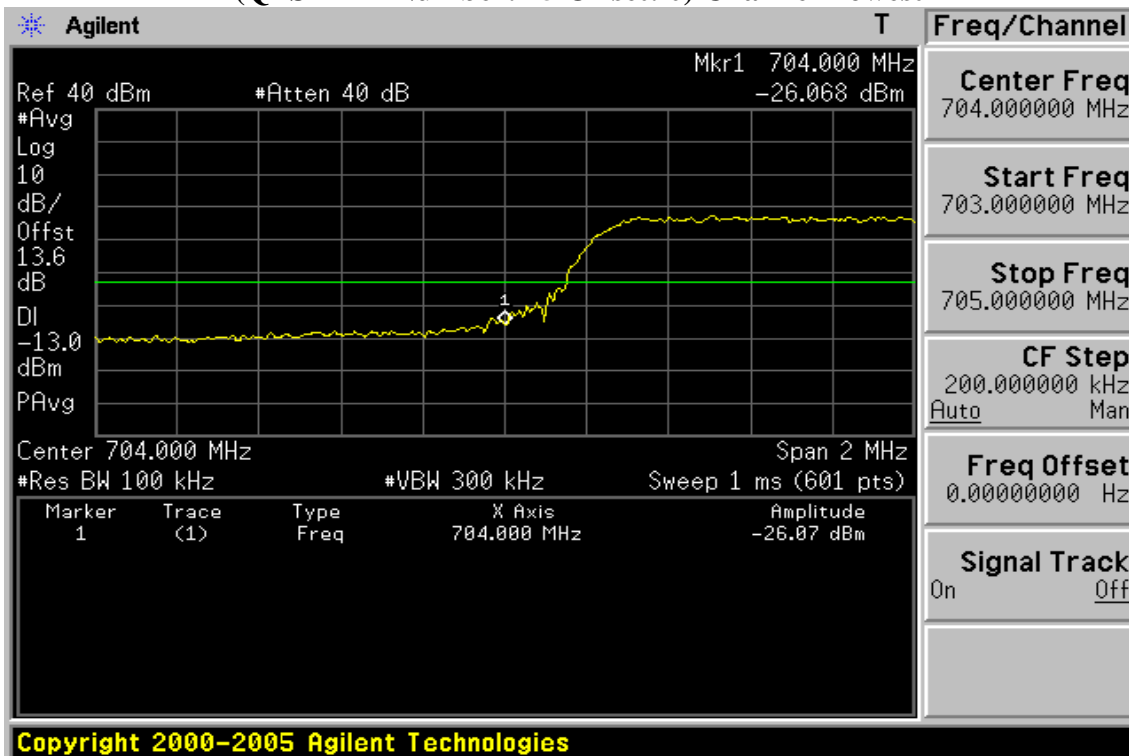
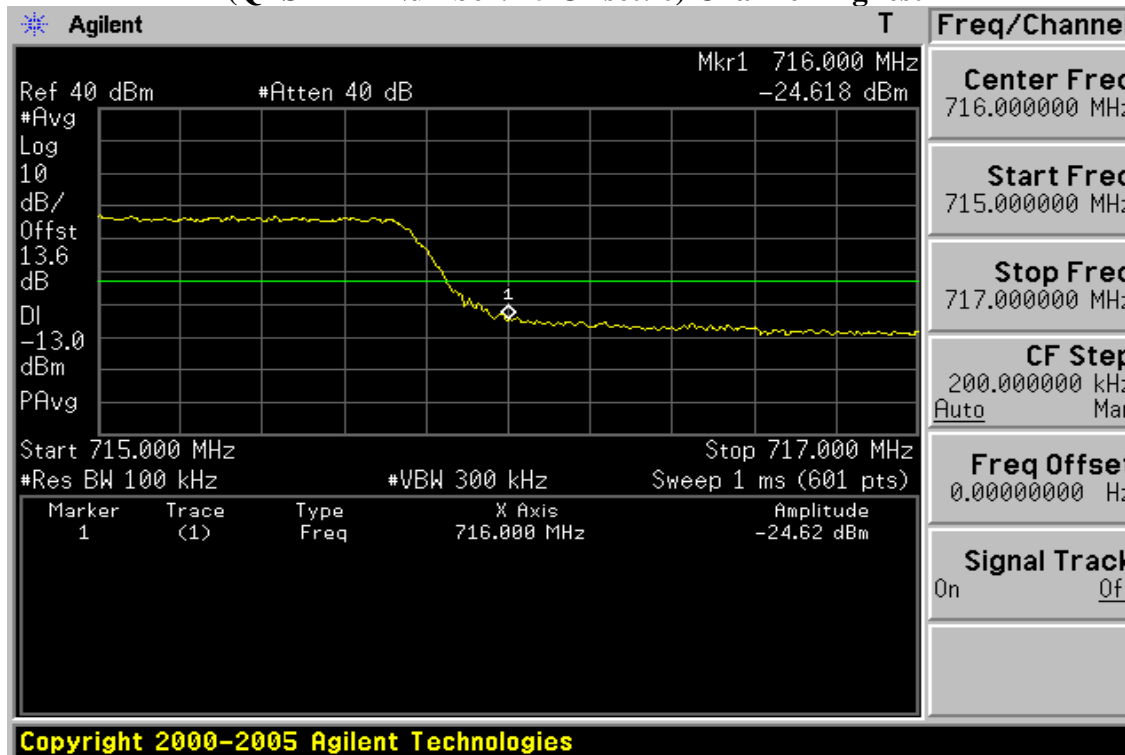


Figure 10-185: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 17

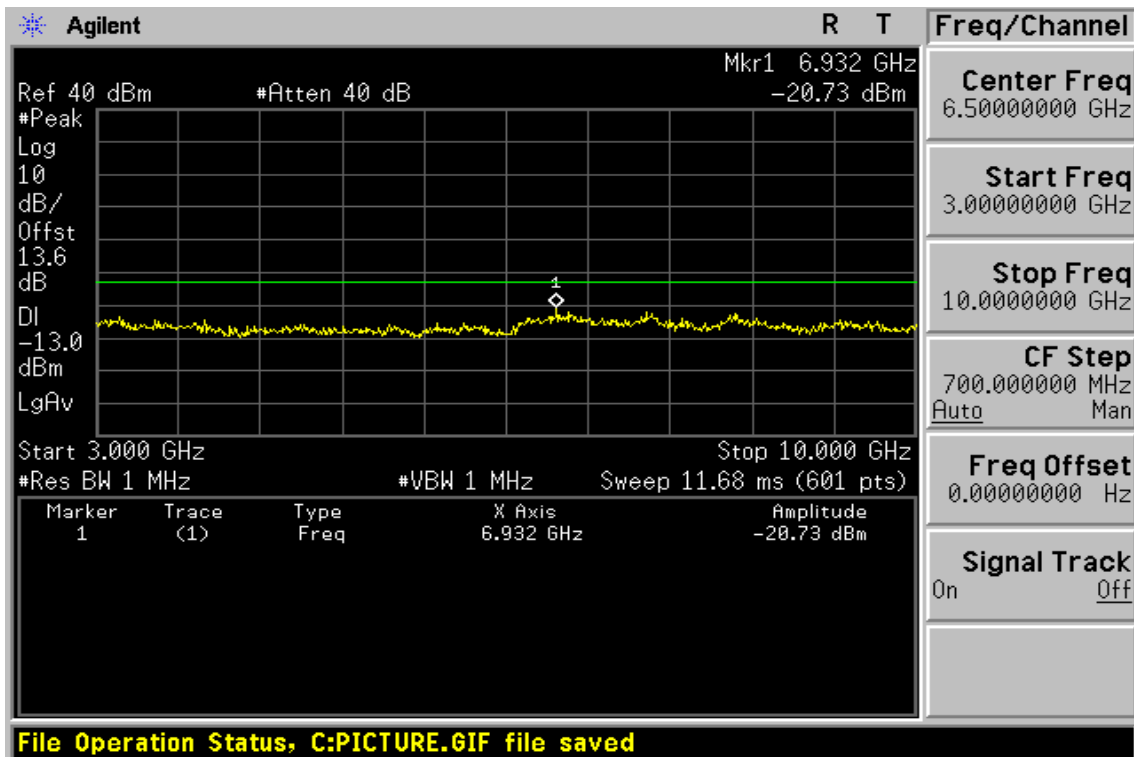
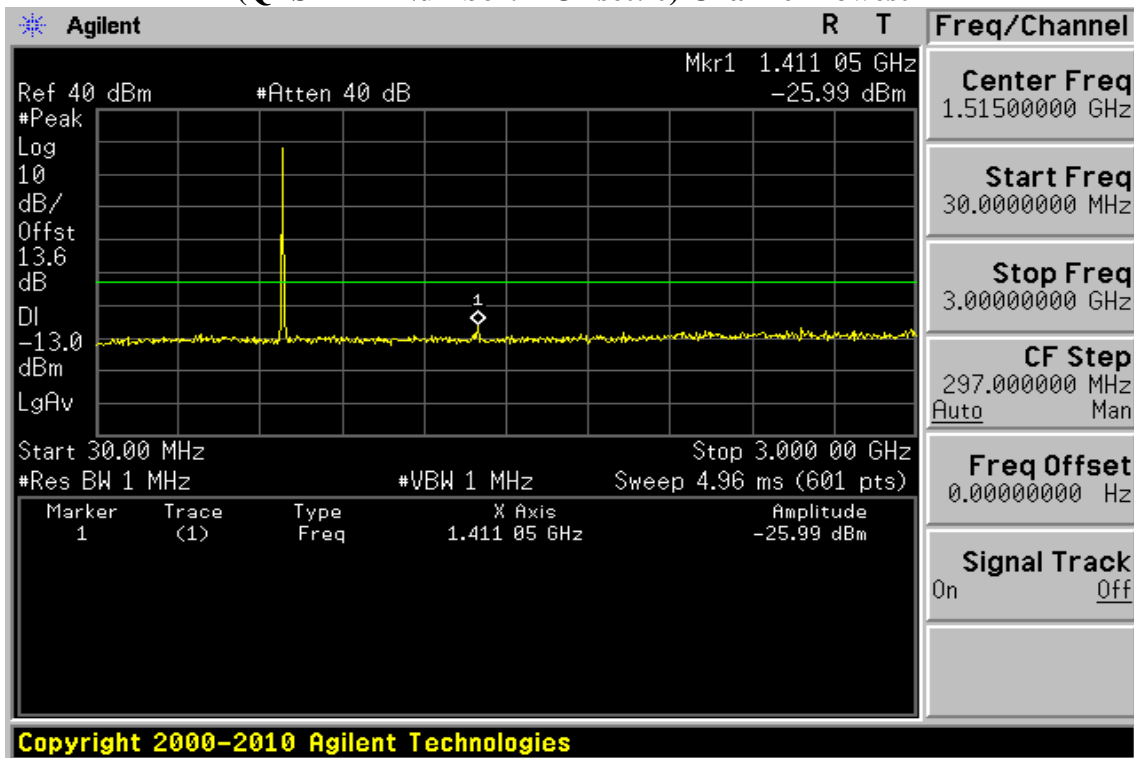
(QPSK RB Number: 25 Offset: 0)

Test Mode 5MHz BW LTE-Band 17 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
704.000	-26.07	-13.00	13.07
716.000	-24.62	-13.00	11.62

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Figure 10-186: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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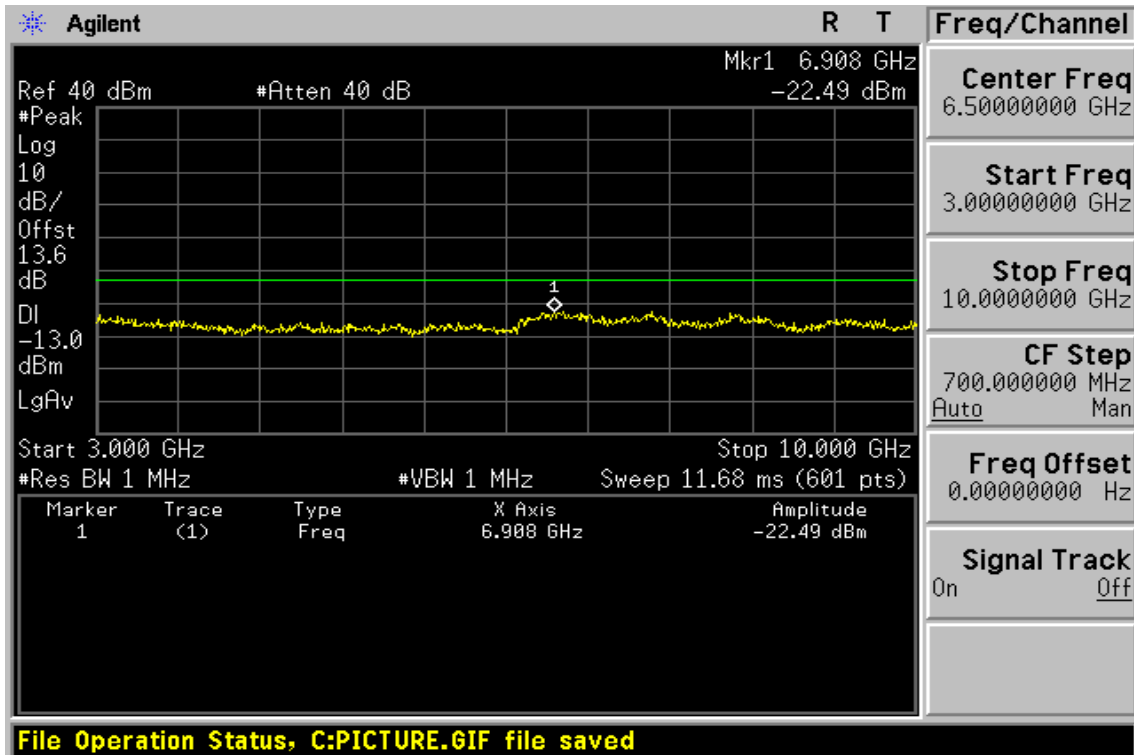
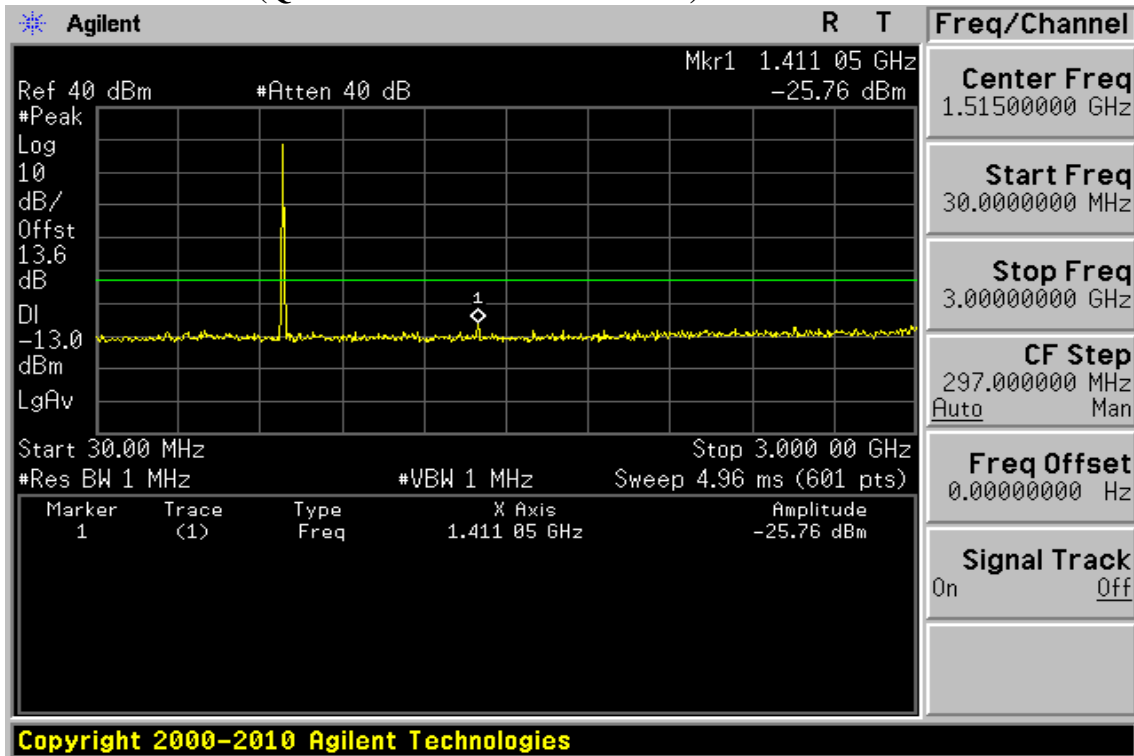
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Figure 10-187: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid



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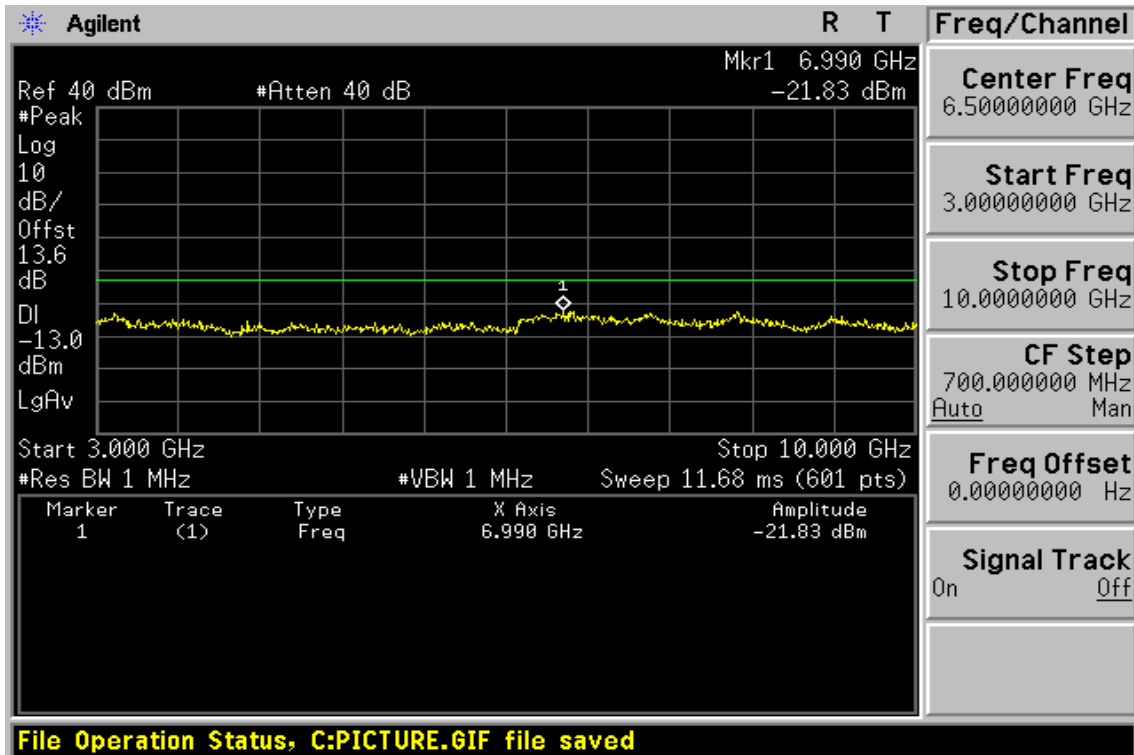
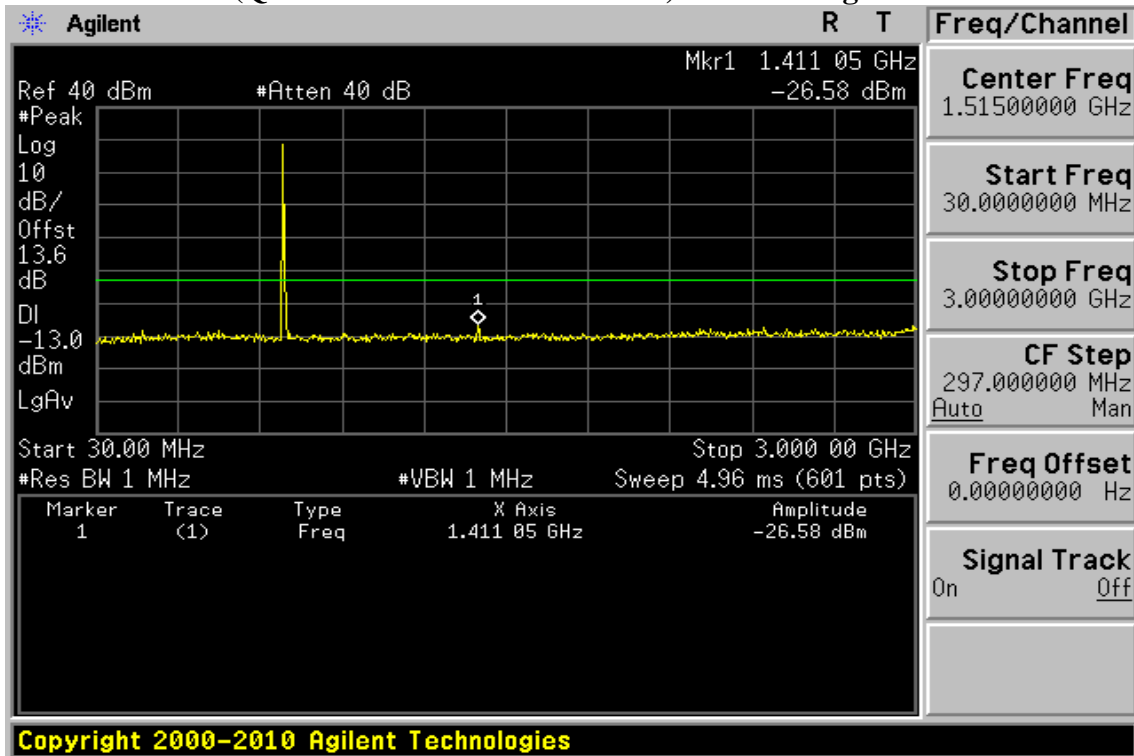
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Figure 10-188: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Out of Band emission at antenna terminals –10MHz BW LTE-Band 17

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :709 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	---
1418.00	H	---	-13.00	---
2127.00	H	---	-13.00	---
2836.00	H	---	-13.00	---
3545.00	H	---	-13.00	---
4254.00	H	---	-13.00	---
4963.00	H	---	-13.00	---
5672.00	H	---	-13.00	---
6381.00	H	---	-13.00	---
6932.00	S	-20.73	-13.00	7.73
7090.00	H	---	-13.00	---

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

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Fundamental Frequency :710 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	---
1420.00	H	---	-13.00	---
2130.00	H	---	-13.00	---
2840.00	H	---	-13.00	---
3550.00	H	---	-13.00	---
4260.00	H	---	-13.00	---
4970.00	H	---	-13.00	---
5680.00	H	---	-13.00	---
6390.00	H	---	-13.00	---
6908.00	S	-22.49	-13.00	9.49
7100.00	H	---	-13.00	---

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

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Fundamental Frequency :711MHz 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	---
1422.00	H	---	-13.00	---
2133.00	H	---	-13.00	---
2844.00	H	---	-13.00	---
3555.00	H	---	-13.00	---
4266.00	H	---	-13.00	---
4977.00	H	---	-13.00	---
5688.00	H	---	-13.00	---
6399.00	H	---	-13.00	---
6990.00	S	-21.83	-13.00	8.83
7110.00	H	---	-13.00	---

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

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Figure 10-189: Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest

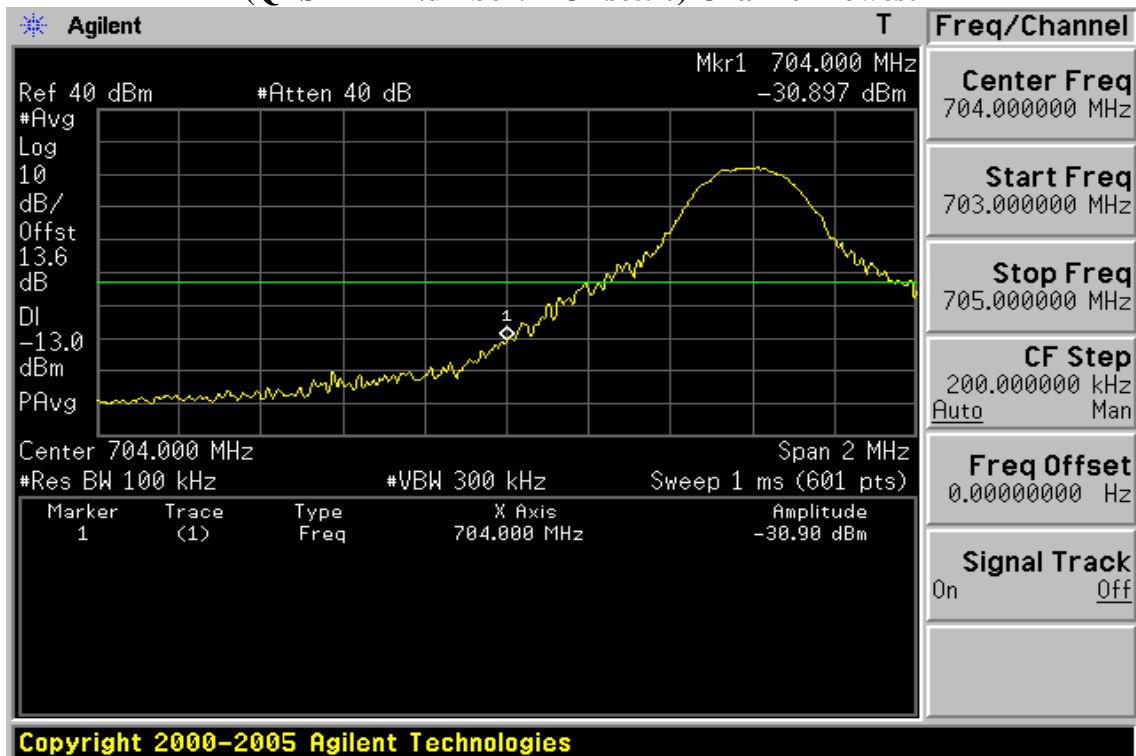
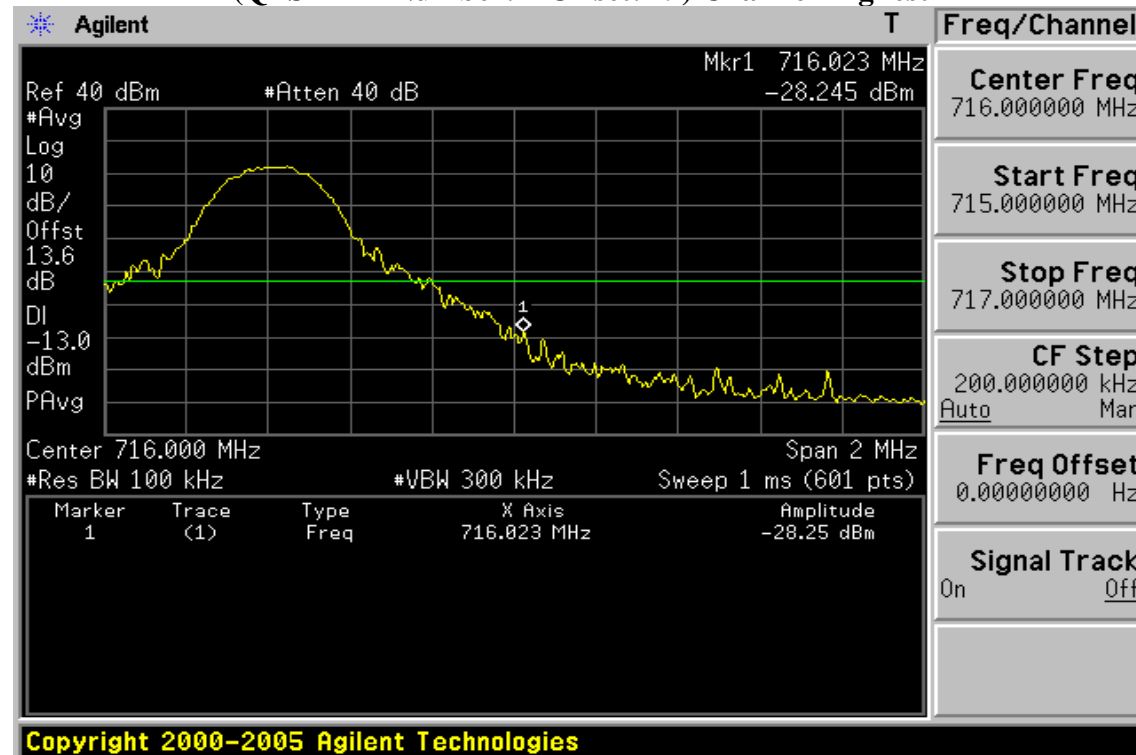


Figure 10-190: Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 17

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

Test Mode 10MHz BW LTE-Band 17 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
704.000	-30.9	-13.00	17.90
716.023	-28.25	-13.00	15.25

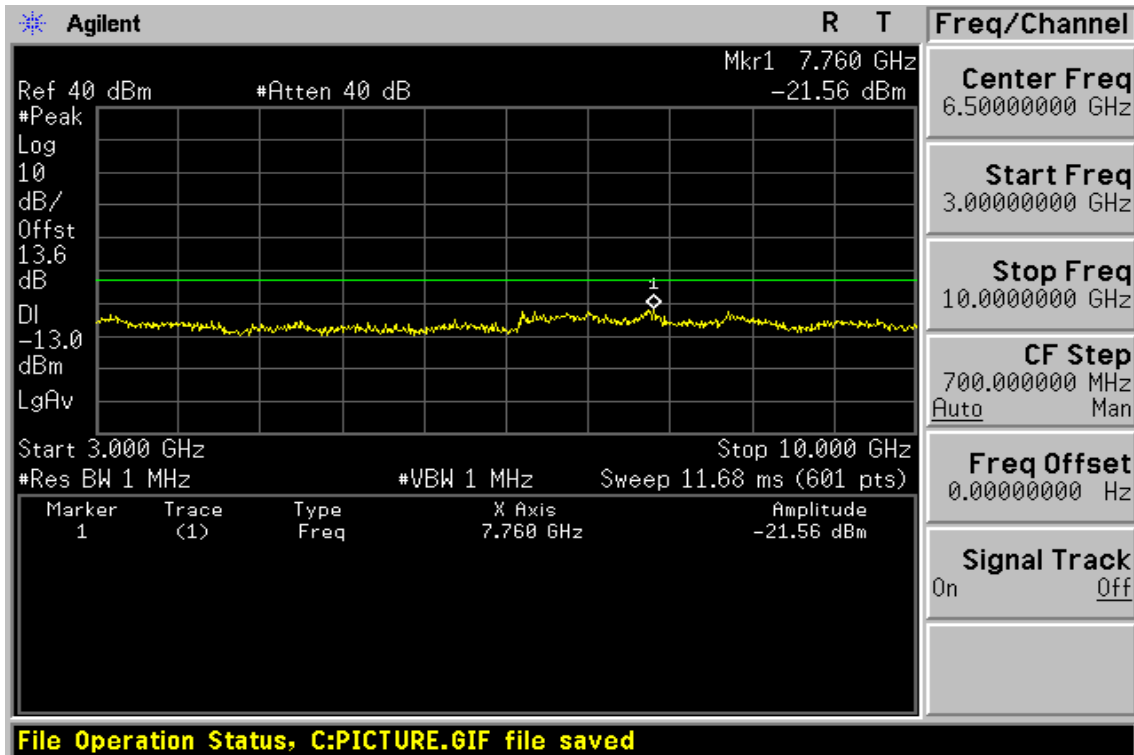
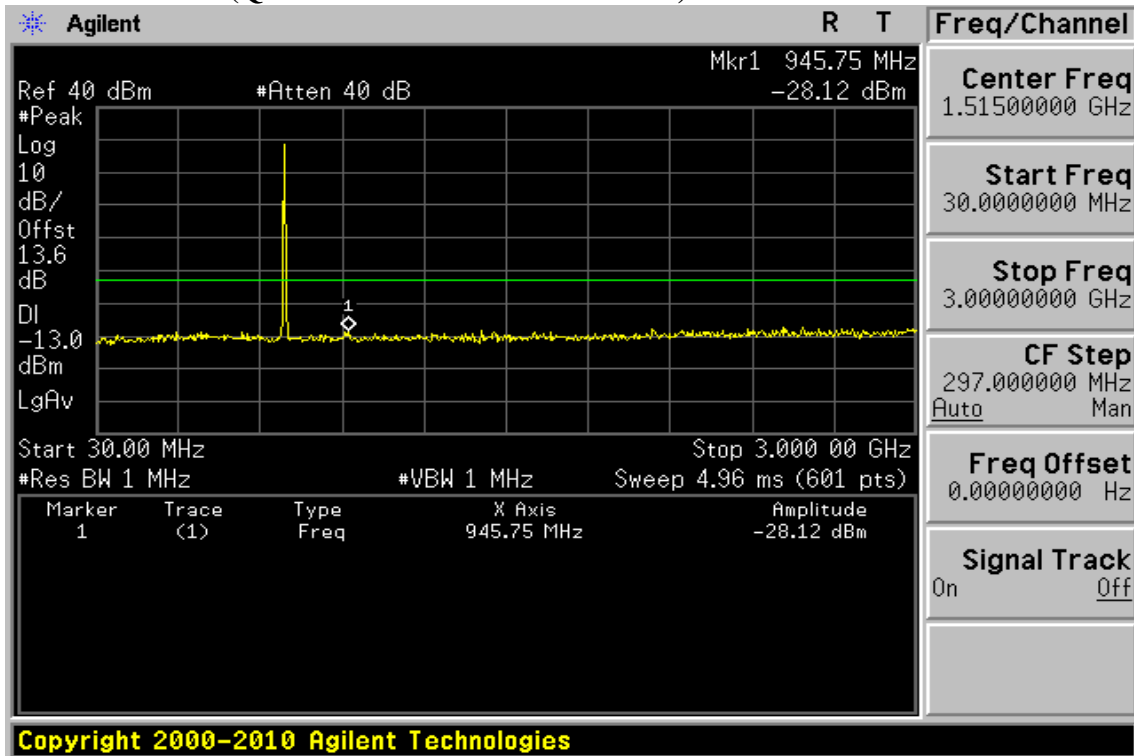
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Figure 10-191: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Lowest



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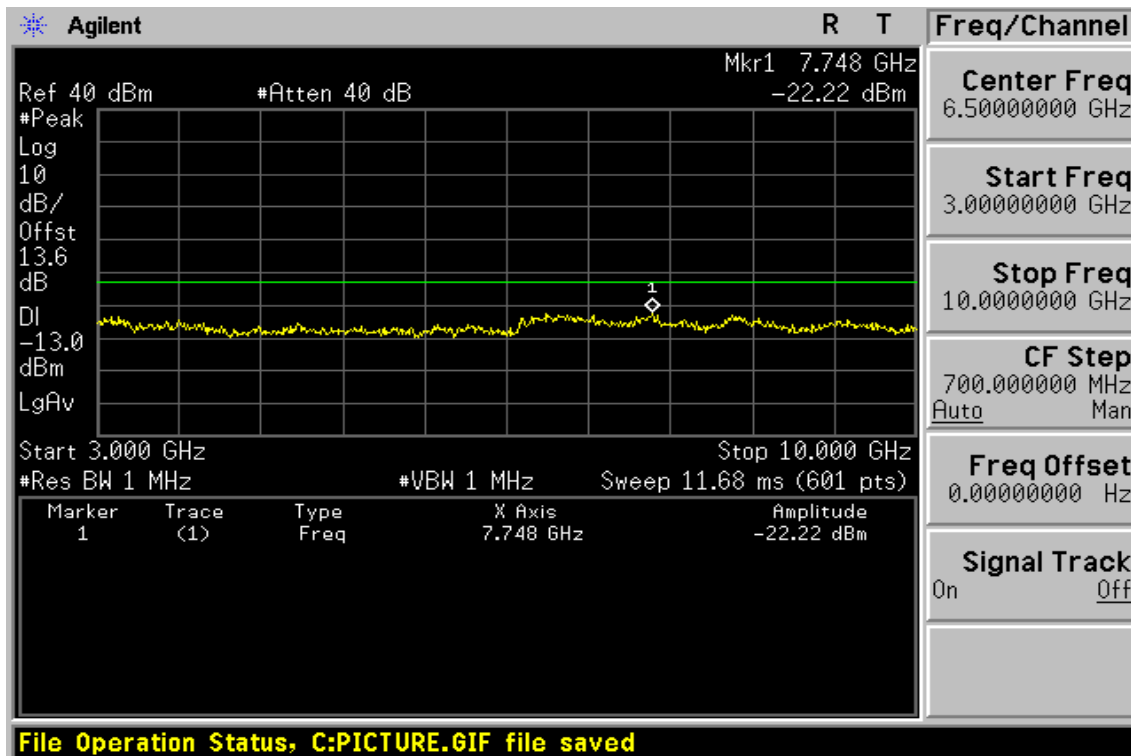
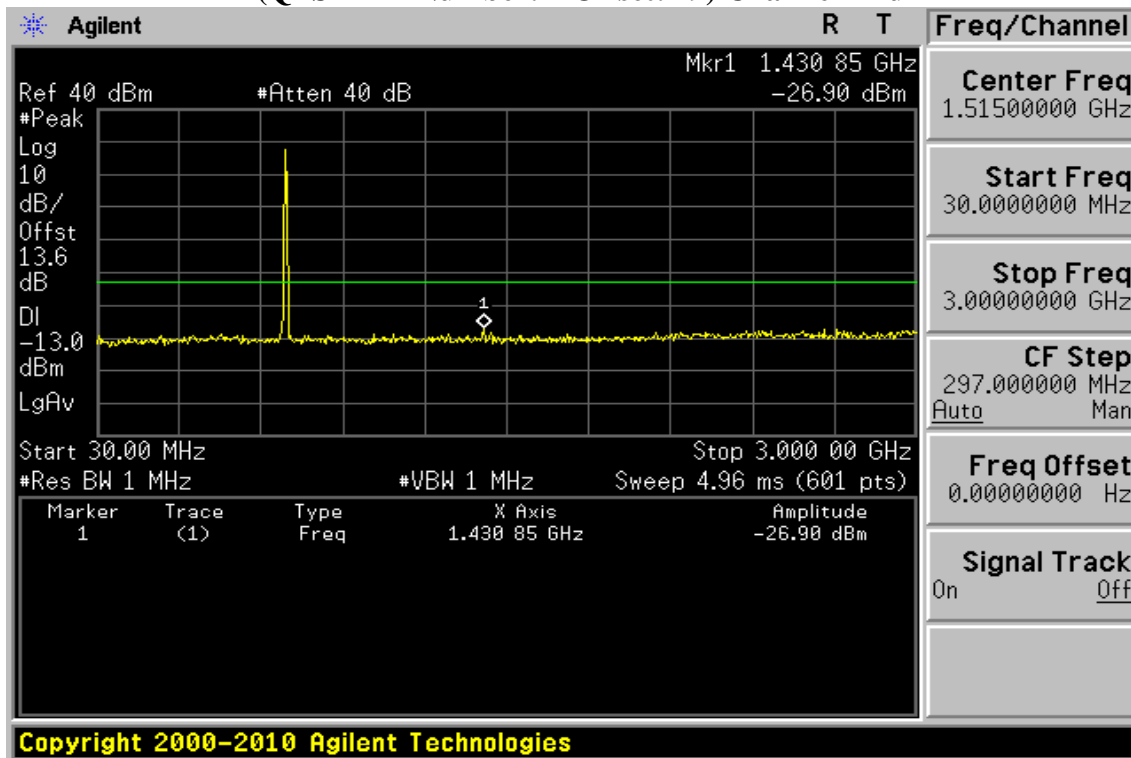
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Figure 10-192: Out of Band emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Mid



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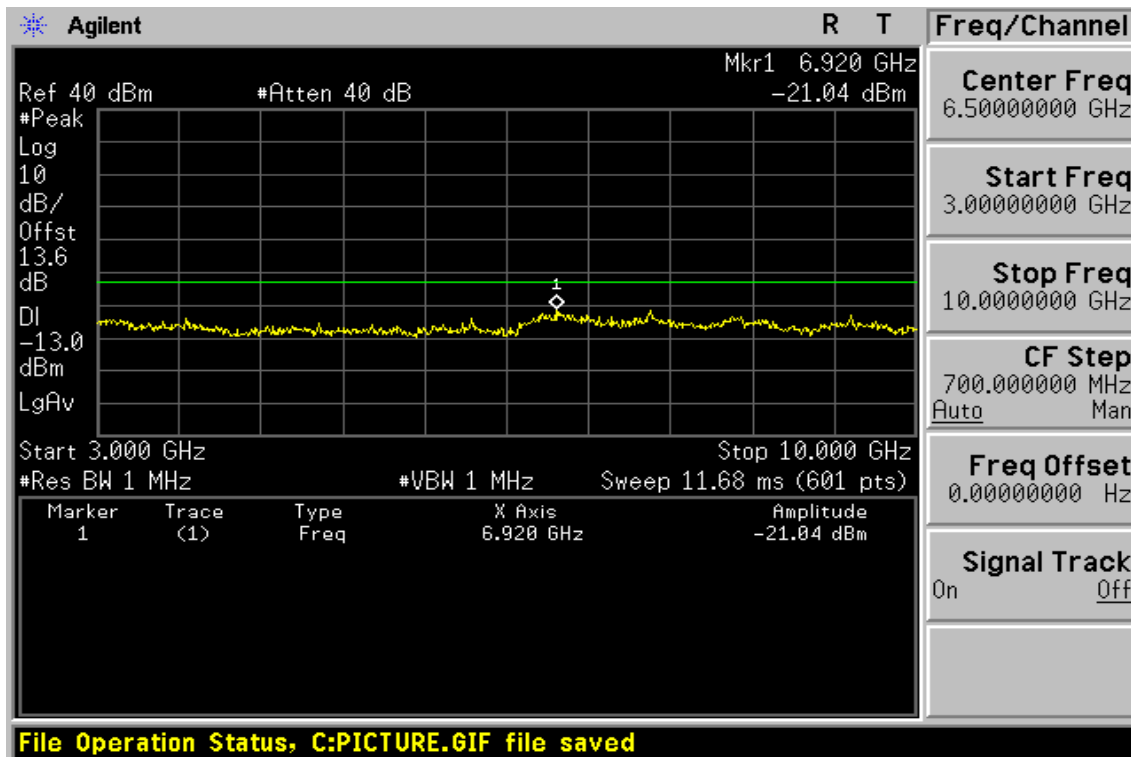
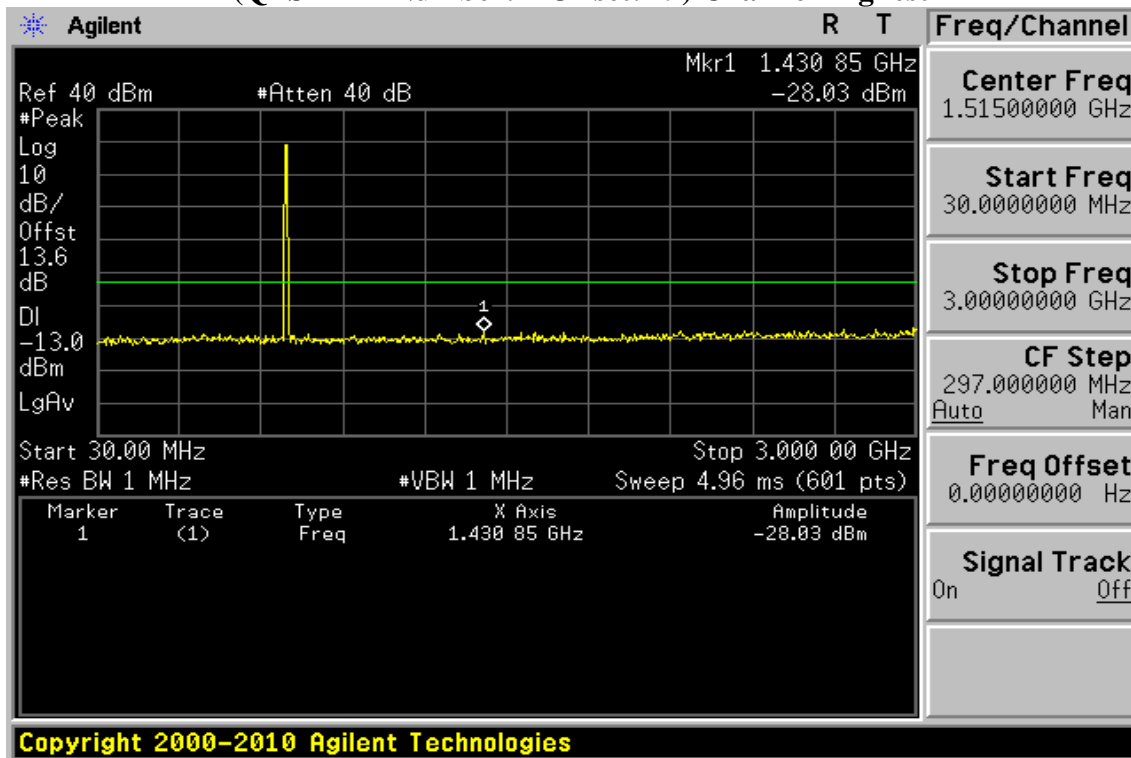
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Figure 10-193: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Out of Band emission at antenna terminals –10MHz BW LTE-Band 17

(QPSK RB Number: 1 Offset: 49)

Fundamental Frequency :709 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	---
1418.00	H	---	-13.00	---
2127.00	H	---	-13.00	---
2836.00	H	---	-13.00	---
3545.00	H	---	-13.00	---
4254.00	H	---	-13.00	---
4963.00	H	---	-13.00	---
5672.00	H	---	-13.00	---
6381.00	H	---	-13.00	---
7090.00	H	---	-13.00	---
7760.00	S	-21.56	-13.00	8.56

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

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Fundamental Frequency :710 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	---
1420.00	H	---	-13.00	---
2130.00	H	---	-13.00	---
2840.00	H	---	-13.00	---
3550.00	H	---	-13.00	---
4260.00	H	---	-13.00	---
4970.00	H	---	-13.00	---
5680.00	H	---	-13.00	---
6390.00	H	---	-13.00	---
7100.00	H	---	-13.00	---
7748.00	S	-22.22	-13.00	9.22

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

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Fundamental Frequency :711MHz 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	---
1422.00	H	---	-13.00	---
2133.00	H	---	-13.00	---
2844.00	H	---	-13.00	---
3555.00	H	---	-13.00	---
4266.00	H	---	-13.00	---
4977.00	H	---	-13.00	---
5688.00	H	---	-13.00	---
6399.00	H	---	-13.00	---
6920.00	S	-21.04	-13.00	8.04
7110.00	H	---	-13.00	---

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

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Figure 10-194: Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Lowest

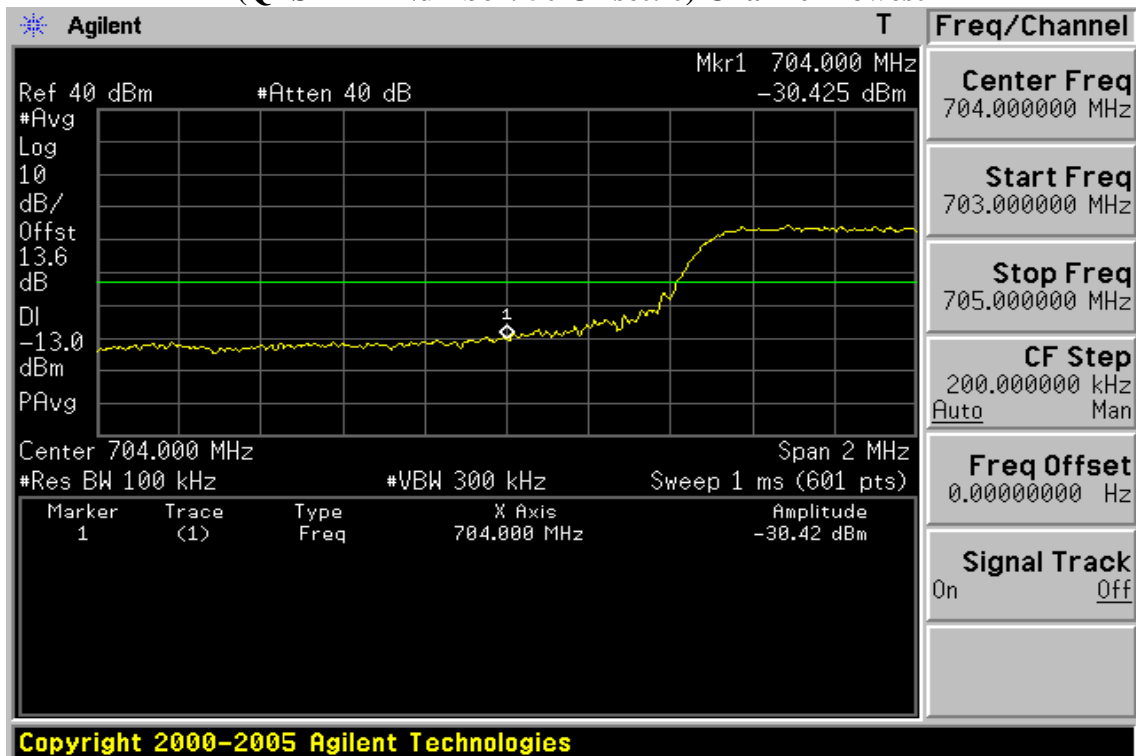
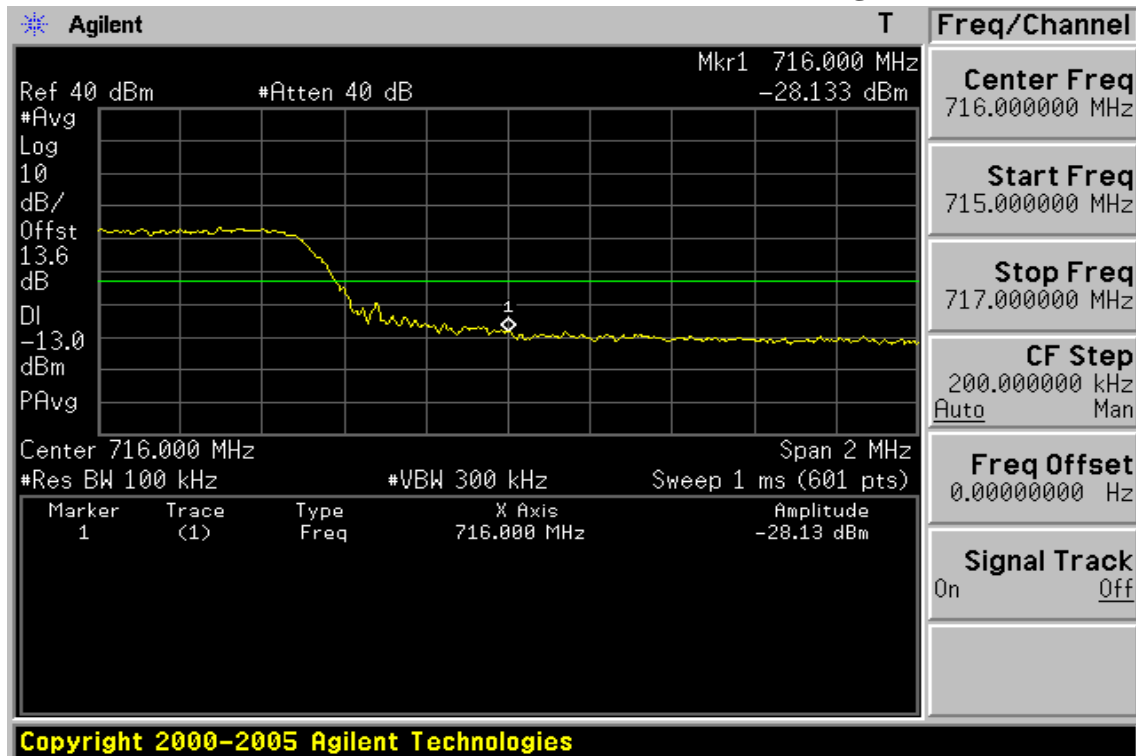


Figure 10-195: Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 17

(QPSK RB Number: 50 Offset: 0)

Test Mode 10MHz BW LTE-Band 7 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
704.000	-30.42	-13.00	17.42
716.000	-28.13	-13.00	15.13

~END OF PART I~

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