

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C

OF

Product Name: PDA Phone
Brand Name: Sony
Type No.: PM-0730-BV
Model Difference: N/A
FCC ID: PY7PM-0730
Report No.: EH/2014/10064
Issue Date: Mar. 04, 2014
FCC Rule Part: 2 , 22H & 24E & 27 C
Prepared for: Sony Mobile Communications AB
Nya Vattentornet 22188 Lund/SWEDEN
Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

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

Product Name: PDA Phone

Brand Name: Sony

Type No.: PM-0730-BV

Model Difference: N/A

FCC ID: PY7PM-0730

File Number: EH/2014/10064

Date of test: Jan. 29, 2014 ~ Mar. 03, 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. 04, 2014

Marcus Tseng / Engineer

Prepared By: Tiffany Kao **Date:** Mar. 04, 2014

Tiffany Kao / Clerk

Approved By: Jim Chang **Date:** Mar. 04, 2014

Jim Chang / Supervisor

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Revision History

Report Number	Revision	Description	Issue Date
EH/2014/10064	Rev.00	Initial creation of document	Mar. 04, 2014

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	PDA Phone	
Brand Name:	Sony	
Type No.:	PM-0730-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.0.17	
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 / 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
	5MHz BW LTE-Band 7	2502.5MHz – 2567.5MHz	23 dBm
	10MHz BW LTE-Band 7	2505.0MHz – 2565.0MHz	23 dBm
	15MHz BW LTE-Band 7	2507.5MHz – 2562.5MHz	23 dBm
	20MHz BW LTE-Band 7	2510.0MHz – 2560MHz	23 dBm
Type of Emission:	GSM 850: 250KGXW, GSM 1900: 252KGXW GPRS 850: 244KGXW, GPRS 1900: 248KGXW EDGE 850: 249KG7W, EDGE 1900: 248KG7W 5MHz BW LTE-Band 7: QPSK: 4M51G7D, 16QAM: 4M51D7W 10MHz BW LTE-Band 7: QPSK: 9M01G7D, 16QAM: 8M99D7W 15MHz BW LTE-Band 7: QPSK: 13M5G7D, 16QAM: 13M4D7W 20MHz BW LTE-Band 7: QPSK: 17M9G7D, 16QAM: 17M9D7W		
IMEI:	004402452026218		

This test report applies for 850 /1900 GSM/GPRS/EDGE, and LTE Band 7.

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	218
GSM 1900	3.8 Vdc	191
GPRS 850	3.8 Vdc	225
GPRS 1900	3.8 Vdc	165
EDGE 850	3.8 Vdc	148
EDGE 1900	3.8 Vdc	139
LTE Band 7_5M QPSK	3.8 Vdc	653
LTE Band 7_5M 16QAM	3.8 Vdc	601
LTE Band 7_10M QPSK	3.8 Vdc	662
LTE Band 7_10M 16QAM	3.8 Vdc	613
LTE Band 7_15M QPSK	3.8 Vdc	703
LTE Band 7_15M 16QAM	3.8 Vdc	645
LTE Band 7_20M QPSK	3.8 Vdc	702
LTE Band 7_20M 16QAM	3.8 Vdc	648

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

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0730** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part27 subpart C 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 / LTE) 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, Canada Registration Number: 4620A-4.

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 and RSS-Gen Issue 3, 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	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014
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)

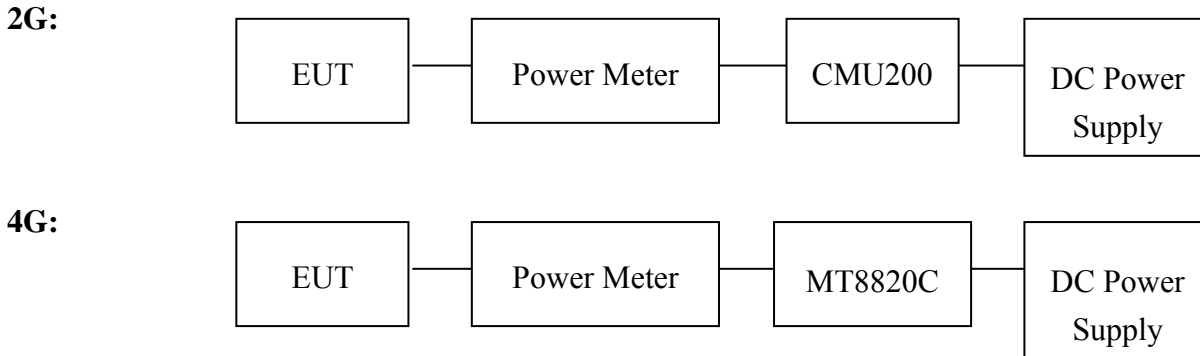
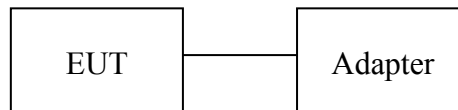


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

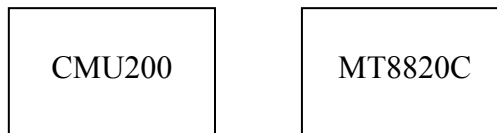


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	DC Power Supply	HP	E3640A	MY40005907	shielded	Un-shielded
2.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
3.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	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(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)	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	25.79	ERP	0.379
GSM 1900 Band	27.92	EIRP	0.619
GPRS 850 Band	24.76	ERP	0.299
GPRS 1900 Band	27.86	EIRP	0.611
EDGE 850 Band	24.69	ERP	0.294
EDGE 1900 Band	24.05	EIRP	0.254
LTE Band 7/5MMz /QPSK RB 1 Offset 0	25.06	EIRP	0.321
LTE Band 7/5MMz /QPSK RB 1 Offset 24	24.97	EIRP	0.314
LTE Band 7/5MMz /16QAM RB 1 Offset 0	25.09	EIRP	0.323
LTE Band 7/5MMz /16QAM RB 1 Offset 24	24.97	EIRP	0.314
LTE Band 7/10MMz /QPSK RB 1 Offset 0	24.60	EIRP	0.288
LTE Band 7/10MMz /QPSK RB 1 Offset 49	23.88	EIRP	0.244
LTE Band 7/10MMz /16QAM RB 1 Offset 0	24.23	EIRP	0.265
LTE Band 7/10MMz /16QAM RB 1 Offset 49	24.18	EIRP	0.262
LTE Band 7/15MMz /QPSK RB 1 Offset 0	24.84	EIRP	0.305
LTE Band 7/15MMz /QPSK RB 1 Offset 74	24.14	EIRP	0.259
LTE Band 7/15MMz /16QAM RB 1 Offset 0	25.02	EIRP	0.318
LTE Band 7/15MMz /16QAM RB 1 Offset 74	24.23	EIRP	0.265
LTE Band 7/20MMz /QPSK RB 1 Offset 0	24.55	EIRP	0.285
LTE Band 7/20MMz /QPSK RB 1 Offset 99	24.18	EIRP	0.262
LTE Band 7/20MMz /16QAM RB 1 Offset 0	24.62	EIRP	0.290
LTE Band 7/20MMz /16QAM RB 1 Offset 99	24.26	EIRP	0.267

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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

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	21100	2535
	15/20		
High	5	21425	2567.5
	10	21400	2565
	15	21375	2562.5
	20	21350	2560

The field strength of spurious radiation emission was measured as stand-up position (E2 mode as defined in Lab) and lie down position with 90 degrees angle apart (H, E1 mode as defines in Lab) for GSM/EDGE and LTE Band 7. The worst-case of H position for GSM 850, E1 position for GSM 1900 and H position for LTE band 7 is placed to conduct all applicable measurement test cases for all supported modulation, transmission bandwidth, and frequency band.

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The evaluation of Test Mode as configured in UE presented on the Test Report:**GSM/GPRS:****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 7, 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.

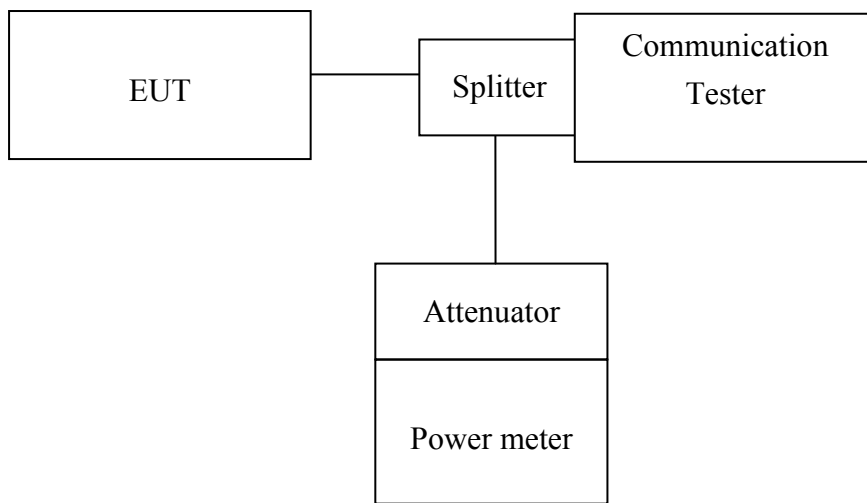
FCC 22.913(a) Mobile station are limited to 7W.

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

6.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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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, LTE 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	33.70	33.40
	848.8	251	33.70	33.40

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 1900	1850.2	512	31.00	30.90
	1880.0	661	30.80	30.60
	1909.8	810	30.50	30.30

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	29.60	29.40
	836.6	190	33.70	33.40	29.60	29.40
	848.8	251	33.60	33.40	29.80	29.60

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 850	824.2	128	28.00	27.90	27.40	27.20
	836.6	190	28.10	28.00	27.40	27.30
	848.8	251	28.10	28.00	27.40	27.20

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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	31.10	30.80	29.20	29.00
	1880.0	661	30.80	30.60	29.00	28.80
	1909.8	810	30.60	30.40	29.10	28.90

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	27.90	27.70	27.30	27.20
	1880.0	661	27.90	27.70	27.40	27.20
	1909.8	810	28.10	27.90	27.40	27.30

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	25.20	27.30	24.10
	836.6	190	28.40	25.20	27.30	24.10
	848.8	251	28.30	25.20	27.40	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	26.40	23.00
	836.6	190	27.30	24.00	26.40	23.10
	848.8	251	27.20	24.00	26.30	23.00

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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	27.90	24.80	27.90	24.70
	1880.0	661	27.80	24.70	27.70	24.60
	1909.8	810	27.80	24.70	27.80	24.70

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	27.80	24.60	26.80	23.60
	1880.0	661	27.70	24.60	26.80	23.60
	1909.8	810	27.70	24.60	26.80	23.70

Cable loss offset Low Band: 0.4dB

Cable loss offset High Band: 0.7dB

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6.5.1.2: MPR Table
 LTE Band 7_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	20775	2502.5	1	0	22.41
				1	24	22.33
				12	6	21.25
				25	0	21.24
		21100	2535.0	1	0	21.79
				1	24	21.80
				12	6	20.77
				25	0	20.74
		21425	2567.5	1	0	22.07
				1	24	22.21
				12	6	21.11
				25	0	21.10
5	16 QAM	20775	2502.5	1	0	21.06
				1	24	20.98
				12	6	20.13
				25	0	20.08
		21100	2535.0	1	0	20.49
				1	24	20.55
				12	6	19.61
				25	0	19.57
		21425	2567.5	1	0	20.91
				1	24	20.96
				12	6	20.00
				25	0	19.99

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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	22.40
				1	49	22.38
				25	12	21.37
				50	0	21.36
		21100	2535.0	1	0	22.01
				1	49	22.09
				25	12	20.93
				50	0	20.94
		21400	2565.0	1	0	22.20
				1	49	22.35
				25	12	21.06
				50	0	21.08
10	16 QAM	20800	2505.0	1	0	21.17
				1	49	21.04
				25	12	20.12
				50	0	20.05
		21100	2535.0	1	0	20.84
				1	49	20.91
				25	12	19.83
				50	0	19.81
		21400	2565.0	1	0	21.00
				1	49	21.20
				25	12	20.06
				50	0	20.10

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LTE Band 7_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	20850	2507.5	1	0	22.32
				1	74	22.16
				36	19	21.15
				75	0	21.22
		21100	2535.0	1	0	21.95
				1	74	22.08
				36	19	20.99
				75	0	20.96
		21375	2562.5	1	0	22.08
				1	74	22.40
				36	19	21.22
				75	0	21.22
15	16 QAM	20850	2507.5	1	0	20.40
				1	74	20.21
				36	19	19.72
				75	0	19.84
		21100	2535.0	1	0	20.06
				1	74	20.13
				36	19	19.53
				75	0	19.55
		21375	2562.5	1	0	20.19
				1	74	20.40
				36	19	19.84
				75	0	19.82

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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	21.48
				1	99	21.12
				50	25	20.91
				100	0	20.29
		21100	2535.0	1	0	21.03
				1	99	21.15
				50	25	20.60
				100	0	20.02
		21350	2560.0	1	0	21.13
				1	99	21.43
				50	25	20.86
				100	0	20.23
20	16 QAM	20850	2510.0	1	0	20.41
				1	99	20.11
				50	25	19.79
				100	0	19.72
		21100	2535.0	1	0	20.04
				1	99	20.09
				50	25	19.51
				100	0	19.51
		21350	2560.0	1	0	20.06
				1	99	20.36
				50	25	19.78
				100	0	19.77

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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)	30	28.9	26.7	24.8	22.9	20.7	18.6	16.9	14.8

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.7	10.8	8.8	6.8	4.5	2.6	0.9

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

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

According to FCC §2.1046

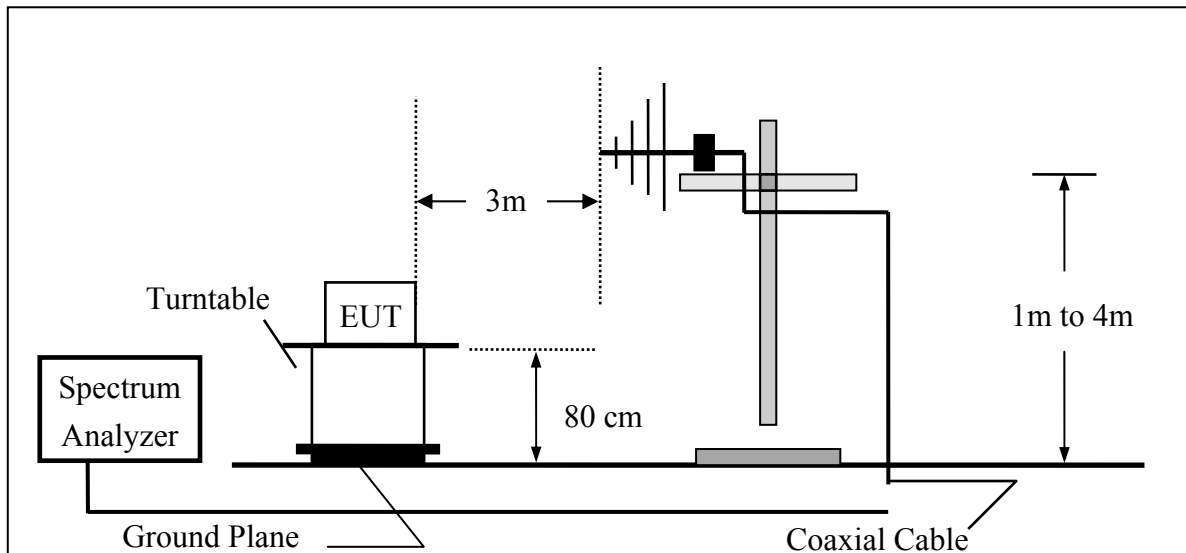
FCC 22.913(a) Mobile station is limited to 7W ERP.

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

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP

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

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



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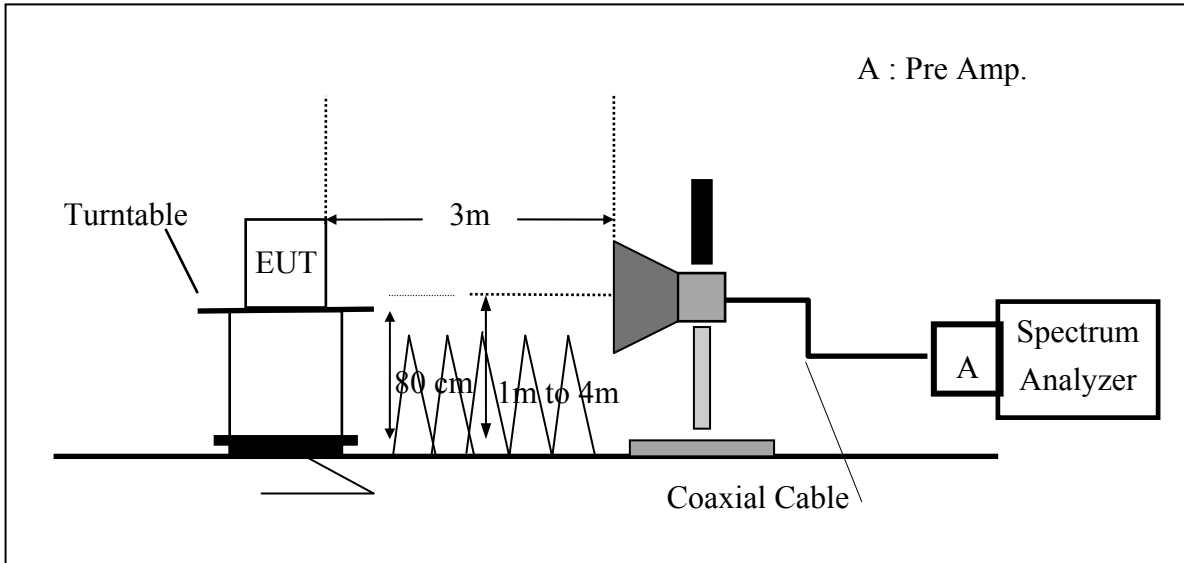
t (886-2) 2299-3279

f (886-2) 2298-0488

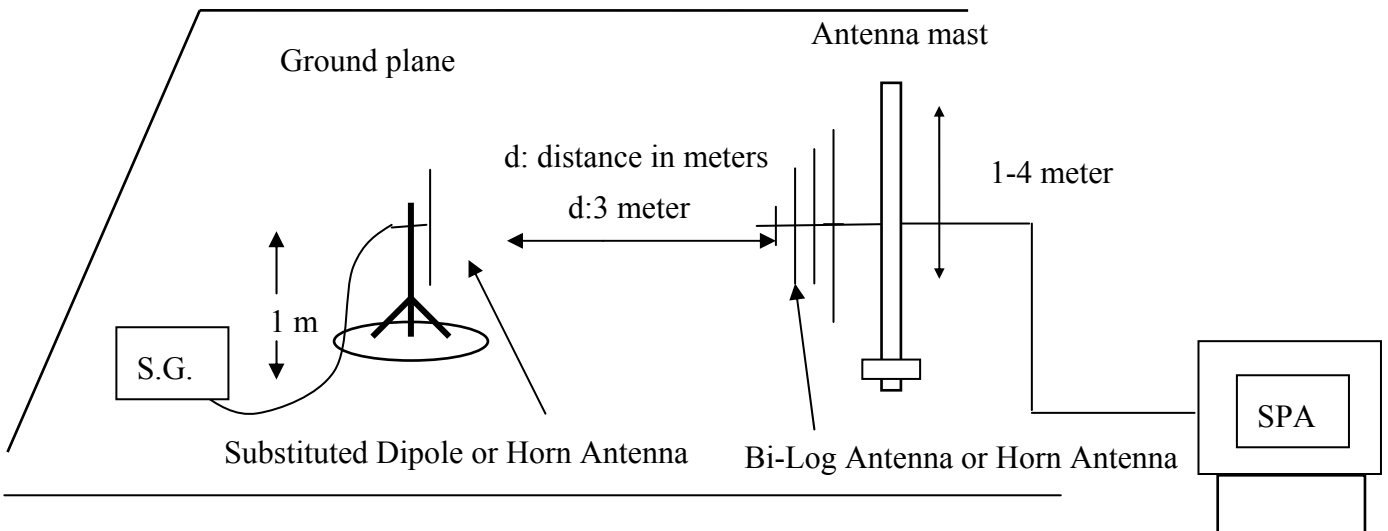
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

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

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

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

EIRP in frequency band 1850.2 –1909.8MHz 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 $\approx 1 \sim 5\%$ of the span, not to exceed 1 MHz

Set VBW = 3 x RBW;

Select average power (RMS) detector

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

Activate trace averaging routine over a minimum of 10 sweeps;

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

Activate the band/interval power marker function;

Record the band power level;

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	824.2	128	V	18.21	3.91	-3.03	19.09	38.45
			H	24.84	3.91	-3.03	25.71	38.45
	836.6	190	V	19.84	3.89	-3.07	20.67	38.45
			H	24.97	3.89	-3.07	25.79	38.45
	848.8	251	V	19.15	3.87	-3.11	19.91	38.45
			H	24.81	3.87	-3.11	25.57	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	21.95	3.91	-3.03	22.83	38.45
			H	13.62	3.91	-3.03	14.49	38.45
	836.6	190	V	21.19	3.89	-3.07	22.01	38.45
			H	23.90	3.89	-3.07	24.72	38.45
	848.8	251	V	17.20	3.87	-3.11	17.97	38.45
			H	24.00	3.87	-3.11	24.76	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	21.96	3.91	-3.03	22.84	38.45
			H	23.30	3.91	-3.03	24.17	38.45
	836.6	190	V	21.26	3.89	-3.07	22.08	38.45
			H	23.85	3.89	-3.07	24.67	38.45
	848.8	251	V	18.66	3.87	-3.11	19.42	38.45
			H	23.93	3.87	-3.11	24.69	38.45

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	1850.2	512	V	25.27	5.08	-4.67	25.68	33.01
			H	20.52	5.08	-4.67	20.93	33.01
	1880.0	661	V	27.62	5.00	-4.70	27.92	33.01
			H	20.8	5.00	-4.70	21.09	33.01
	1909.8	810	V	26.36	4.92	-4.74	26.55	33.01
			H	20.28	4.92	-4.74	20.46	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	26.65	5.08	-4.67	27.06	33.01
			H	20.80	5.08	-4.67	21.21	33.01
	1880.0	661	V	27.56	5.00	-4.70	27.86	33.01
			H	21.70	5.00	-4.70	22.00	33.01
	1909.8	810	V	26.06	4.92	-4.74	26.25	33.01
			H	20.86	4.92	-4.74	21.04	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	23.48	5.08	-4.67	23.89	33.01
			H	17.61	5.08	-4.67	18.02	33.01
	1880.0	661	V	23.75	5.00	-4.70	24.05	33.01
			H	17.84	5.00	-4.70	18.14	33.01
	1909.8	810	V	22.12	4.92	-4.74	22.31	33.01
			H	16.93	4.92	-4.74	17.11	33.01

Remark :

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

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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	22.10	5.80	-5.48	22.42	33.01
			H	24.74	5.80	-5.48	25.06	33.01
	2535.0	21100	V	22.03	5.86	-5.52	22.37	33.01
			H	24.06	5.86	-5.52	24.40	33.01
	2567.5	21425	V	21.91	5.93	-5.57	22.27	33.01
			H	24.29	5.93	-5.57	24.65	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	22.47	5.81	-5.49	22.79	33.01
			H	24.64	5.81	-5.49	24.97	33.01
	2535.0	21100	V	22.04	5.87	-5.53	22.38	33.01
			H	24.34	5.87	-5.53	24.69	33.01
	2567.5	21425	V	22.22	5.93	-5.57	22.58	33.01
			H	24.20	5.93	-5.57	24.56	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	22.25	5.80	-5.48	22.57	33.01
			H	24.77	5.80	-5.48	25.09	33.01
	2535.0	21100	V	22.08	5.86	-5.52	22.42	33.01
			H	24.13	5.86	-5.52	24.47	33.01
	2567.5	21425	V	21.95	5.93	-5.57	22.31	33.01
			H	24.35	5.93	-5.57	24.71	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	22.59	5.81	-5.48	22.91	33.01
			H	24.65	5.81	-5.49	24.97	33.01
	2535.0	21100	V	22.12	5.87	-5.53	22.46	33.01
			H	24.34	5.87	-5.53	24.68	33.01
	2567.5	21425	V	22.36	5.93	-5.57	22.72	33.01
			H	24.28	5.93	-5.57	24.65	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	22.20	5.80	-5.48	22.52	33.01
			H	24.28	5.80	-5.48	24.60	33.01
	2535.0	21100	V	21.21	5.86	-5.52	21.54	33.01
			H	22.54	5.86	-5.52	22.87	33.01
	2565.0	21400	V	23.10	5.92	-5.56	23.46	33.01
			H	23.2	5.92	-5.56	23.56	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	21.14	5.82	-5.49	21.46	33.01
			H	23.55	5.82	-5.49	23.88	33.01
	2535.0	21100	V	20.56	5.88	-5.53	20.90	33.01
			H	23.53	5.88	-5.53	23.87	33.01
	2565.0	21400	V	21.02	5.93	-5.57	21.38	33.01
			H	22.34	5.93	-5.57	22.70	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	22.15	5.80	-5.48	22.47	33.01
			H	23.91	5.80	-5.48	24.23	33.01
	2535.0	21100	V	21.49	5.86	-5.52	21.83	33.01
			H	22.78	5.86	-5.52	23.11	33.01
	2565.0	21400	V	23.30	5.92	-5.56	23.66	33.01
			H	23.43	5.92	-5.56	23.79	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	21.45	5.82	-5.49	21.77	33.01
			H	23.86	5.82	-5.49	24.18	33.01
	2535.0	21100	V	20.77	5.88	-5.53	21.12	33.01
			H	23.76	5.88	-5.53	24.10	33.01
	2565.0	21400	V	21.10	5.93	-5.57	21.46	33.01
			H	22.44	5.93	-5.57	22.80	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	21.79	5.80	-5.48	22.11	33.01
			H	24.52	5.80	-5.48	24.84	33.01
	2535.0	21100	V	20.23	5.86	-5.52	20.57	33.01
			H	22.8	5.85	-5.52	23.14	33.01
	2562.5	21375	V	21.45	5.91	-5.55	21.81	33.01
			H	23.27	5.91	-5.55	23.63	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	21.64	5.83	-5.50	21.96	33.01
			H	23.38	5.83	-5.50	23.70	33.01
	2535.0	21100	V	21.14	5.88	-5.54	21.49	33.01
			H	23.79	5.88	-5.54	24.14	33.01
	2562.5	21375	V	20.21	5.93	-5.57	20.57	33.01
			H	22.88	5.93	-5.57	23.24	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	21.67	5.80	-5.48	21.99	33.01
			H	24.70	5.80	-5.48	25.02	33.01
	2535.0	21100	V	20.23	5.86	-5.52	20.57	33.01
			H	23.25	5.86	-5.52	23.59	33.01
	2562.5	21375	V	21.33	5.91	-5.56	21.69	33.01
			H	23.29	5.91	-5.56	23.64	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	21.87	5.83	-5.50	22.20	33.01
			H	23.47	5.83	-5.50	23.79	33.01
	2535.0	21100	V	21.31	5.88	-5.54	21.66	33.01
			H	23.88	5.88	-5.53	24.23	33.01
	2562.5	21375	V	20.27	5.93	-5.57	20.63	33.01
			H	22.90	5.93	-5.57	23.26	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	22.13	5.80	-5.48	22.45	33.01
			H	24.23	5.80	-5.48	24.55	33.01
	2535.0	21100	V	21.44	5.85	-5.51	21.78	33.01
			H	23.81	5.85	-5.51	24.15	33.01
	2560.0	21350	V	21.14	5.90	-5.55	21.49	33.01
			H	22.96	5.90	-5.55	23.31	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	21.24	5.84	-5.51	21.57	33.01
			H	23.48	5.84	-5.50	23.81	33.01
	2535.0	21100	V	20.99	5.88	-5.54	21.33	33.01
			H	23.83	5.88	-5.54	24.18	33.01
	2560.0	21350	V	20.58	5.93	-5.57	20.94	33.01
			H	23.02	5.93	-5.57	23.38	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	22.04	5.80	-5.48	22.36	33.01
			H	24.3	5.80	-5.48	24.62	33.01
	2535.0	21100	V	21.59	5.85	-5.52	21.92	33.01
			H	23.80	5.85	-5.51	24.13	33.01
	2560.0	21350	V	21.34	5.90	-5.55	21.69	33.01
			H	23.24	5.90	-5.55	23.59	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	21.16	5.84	-5.50	21.49	33.01
			H	23.82	5.83	-5.50	24.15	33.01
	2535.0	21100	V	21.27	5.88	-5.54	21.61	33.01
			H	23.91	5.88	-5.54	24.26	33.01
	2560.0	21350	V	20.75	5.93	-5.57	21.11	33.01
			H	23.20	5.93	-5.57	23.56	33.01

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 * 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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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.244
	836.60	190	0.250
	848.80	251	0.247

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 1900	1850.20	512	0.252
	1880.00	661	0.240
	1909.80	810	0.246

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.243
	836.60	190	0.242
	848.80	251	0.244

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.248
	1880.00	661	0.244
	1909.80	810	0.247

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.245
	836.60	190	0.249
	848.80	251	0.233

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.245
	1880.00	661	0.248
	1909.80	810	0.242

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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	4.5076
	2535.0	21100	4.4956
	2567.5	21425	4.4951

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 7 (16QAM RB Number: 25 Offset: 0)	2502.5	20775	4.5018
	2535.0	21100	4.5083
	2567.5	21425	4.4859

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0)	2505.0	20800	9.0070
	2535.0	21100	8.9852
	2565.0	21400	9.0040

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0)	2505.0	20800	8.9685
	2535.0	21100	8.9760
	2565.0	21400	8.9945

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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	13.4067
	2535.0	21100	13.4468
	2562.5	21375	13.4656

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0)	2507.5	20825	13.4464
	2535.0	21100	13.4047
	2562.5	21375	13.4248

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0)	2510.0	20850	17.8812
	2535.0	21100	17.8509
	2560.0	21350	17.8538

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0)	2510.0	20850	17.8123
	2535.0	21100	17.9426
	2560.0	21350	17.8172

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Figure 8-1: GSM 850 Channel Low

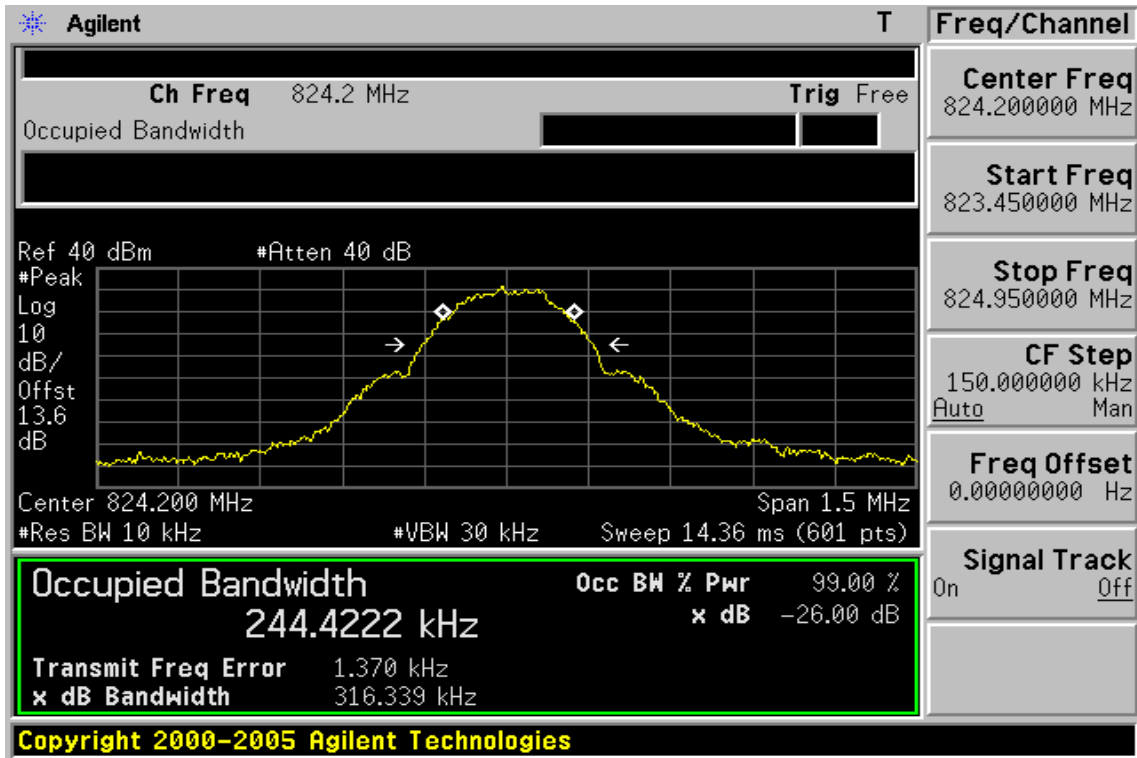
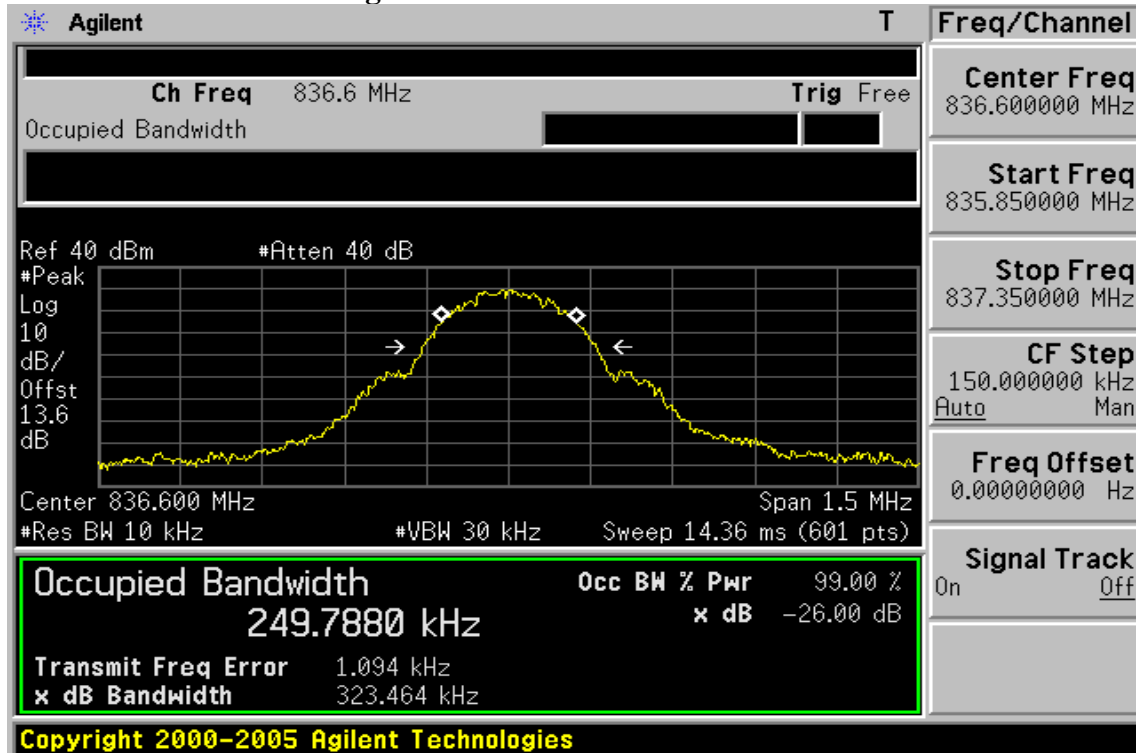


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

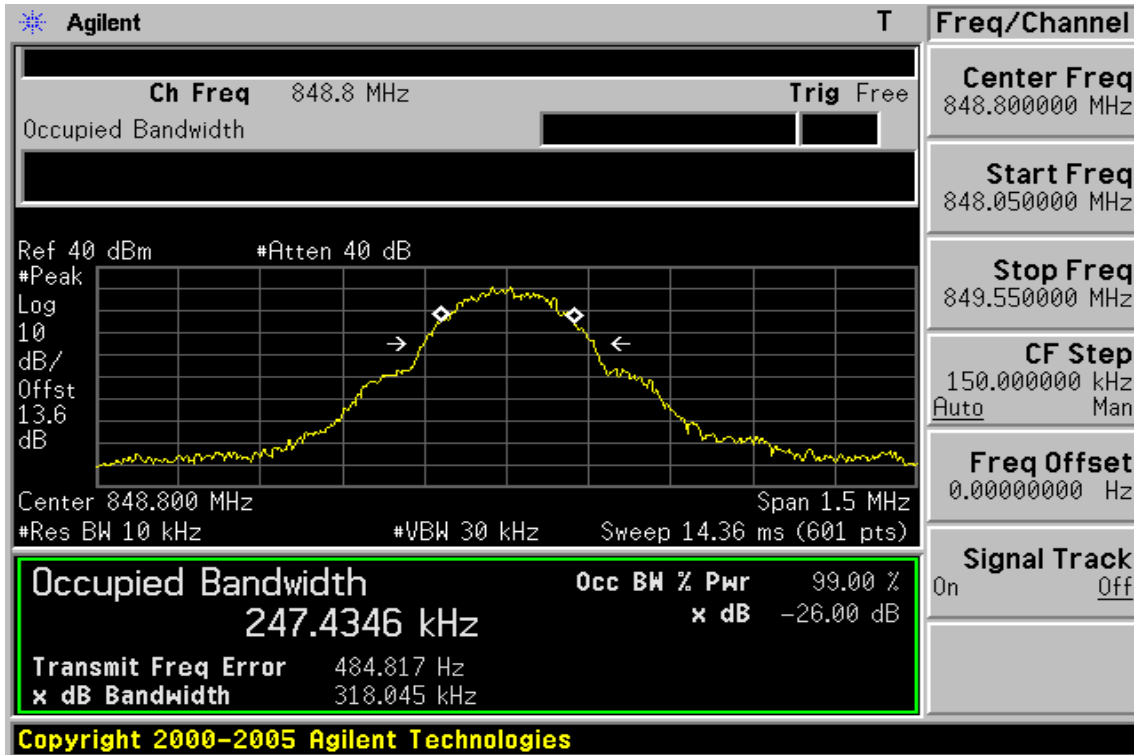
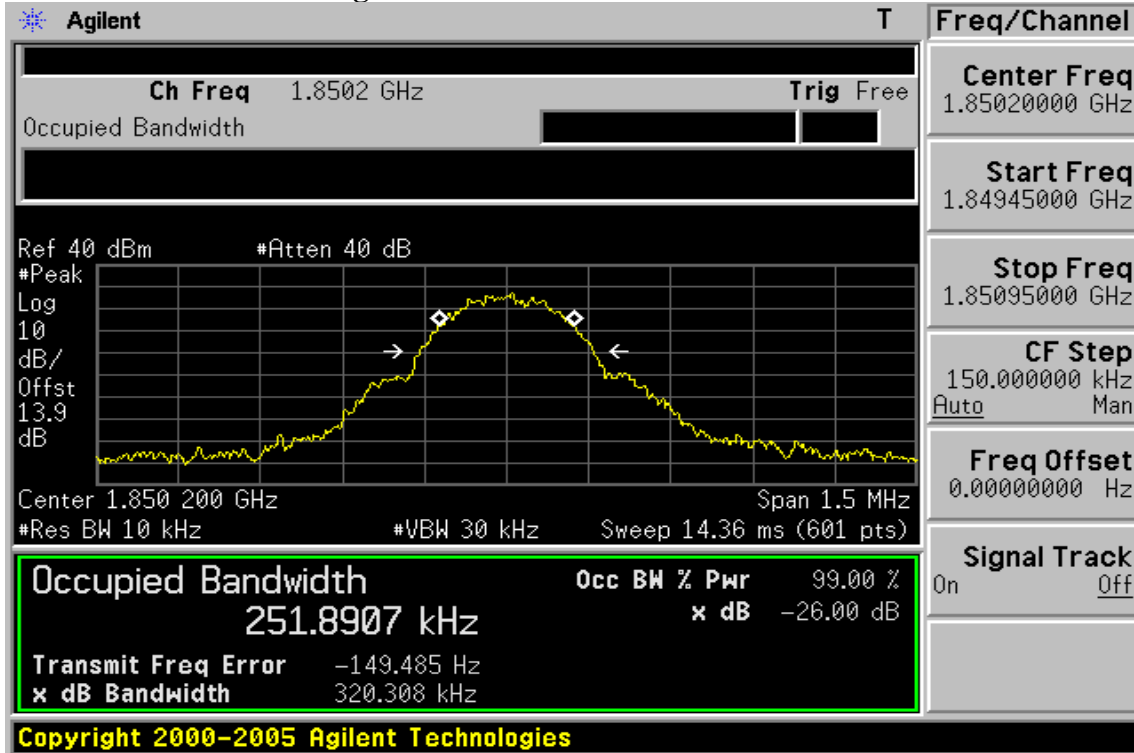


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

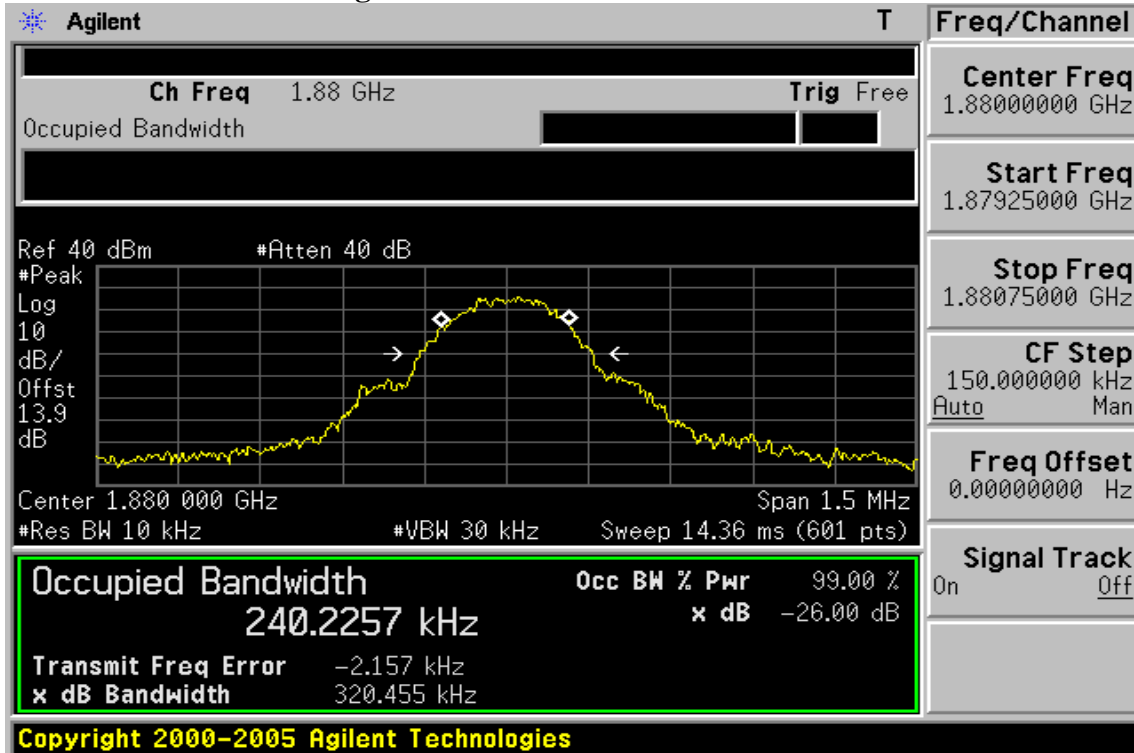
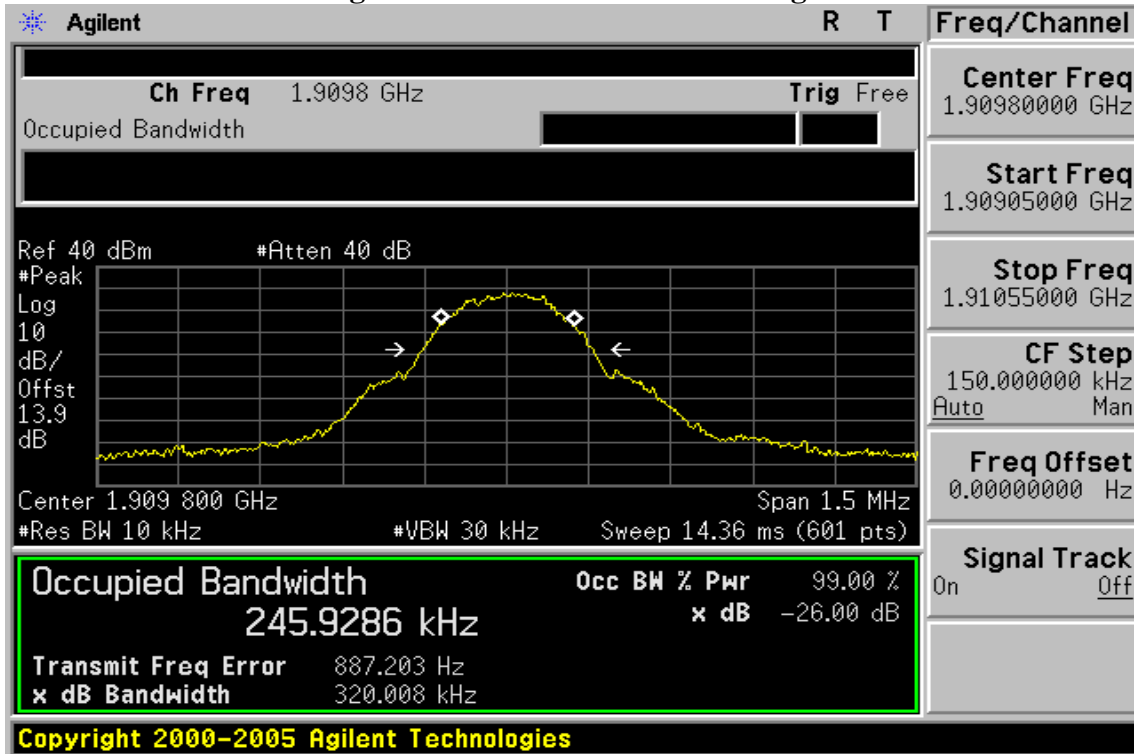


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

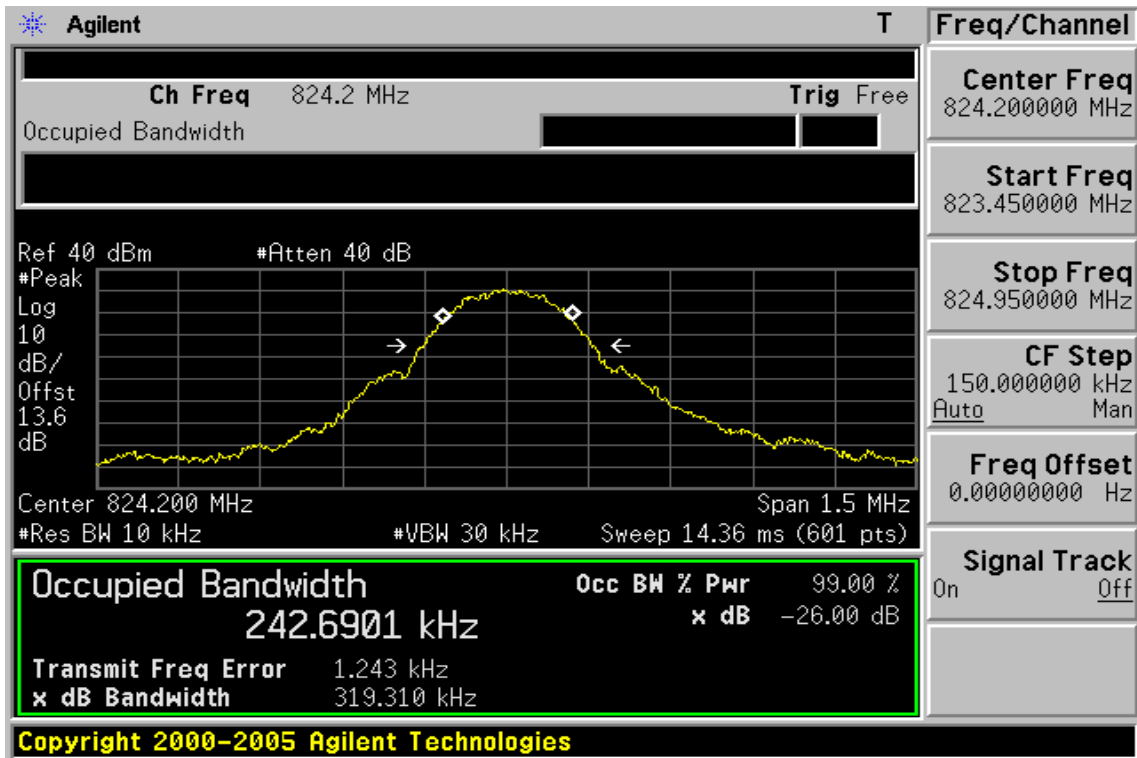
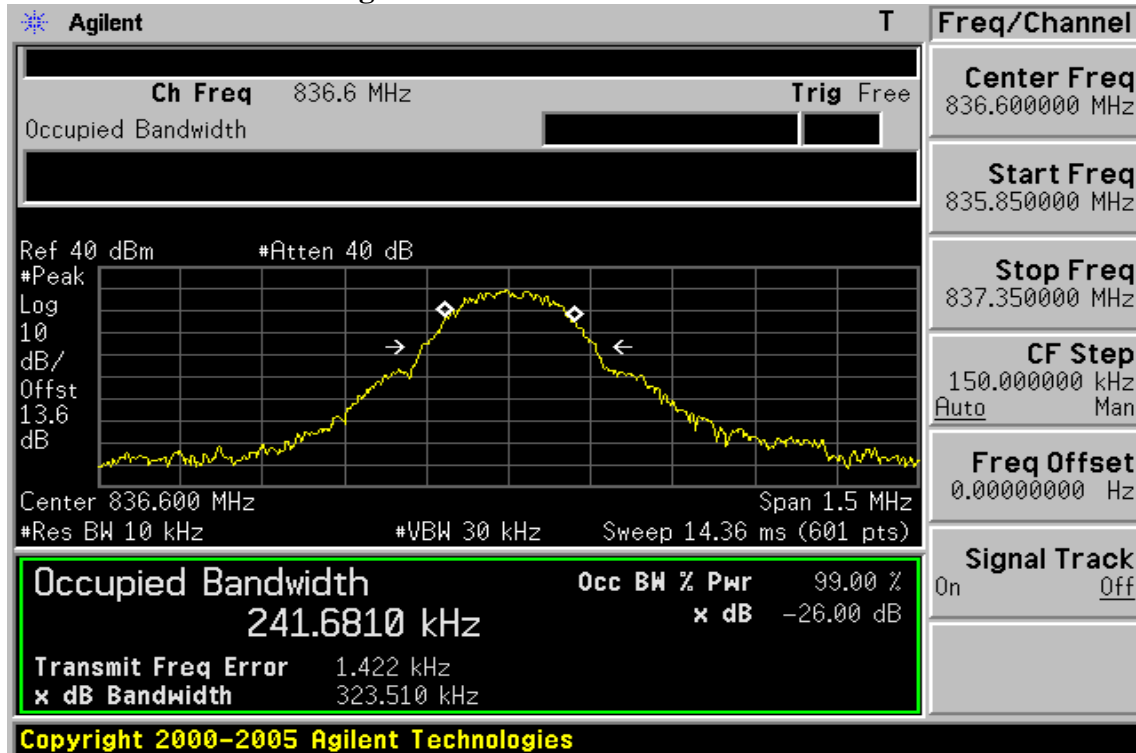


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

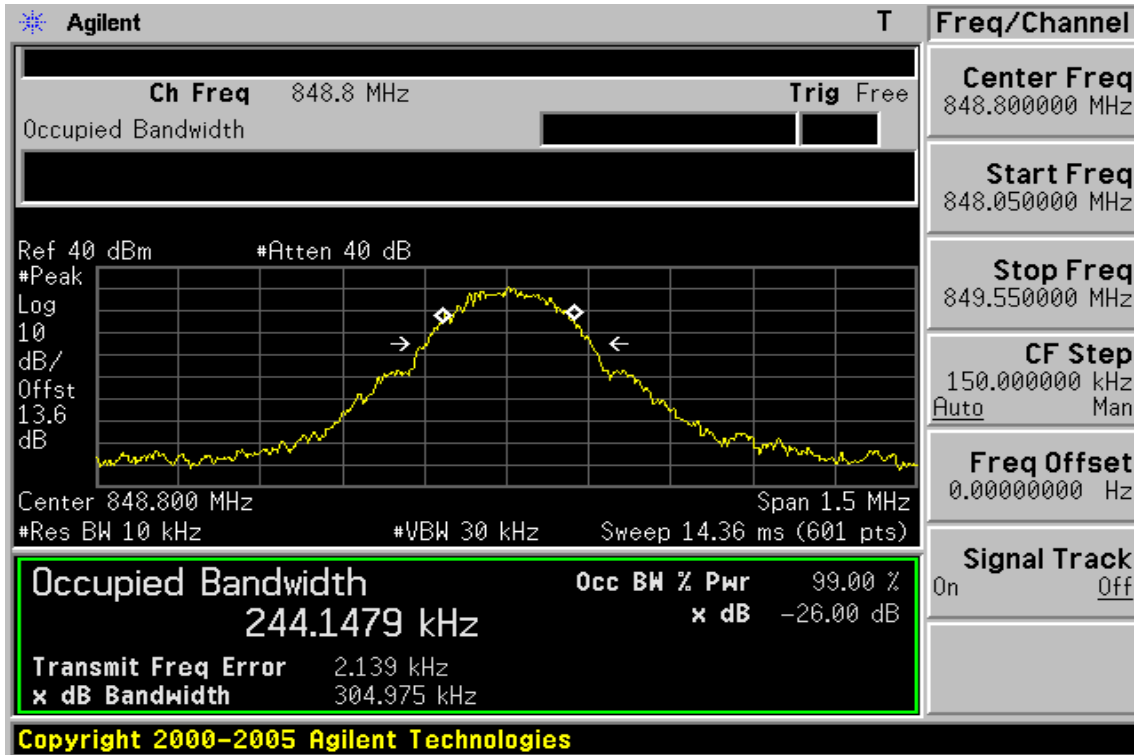
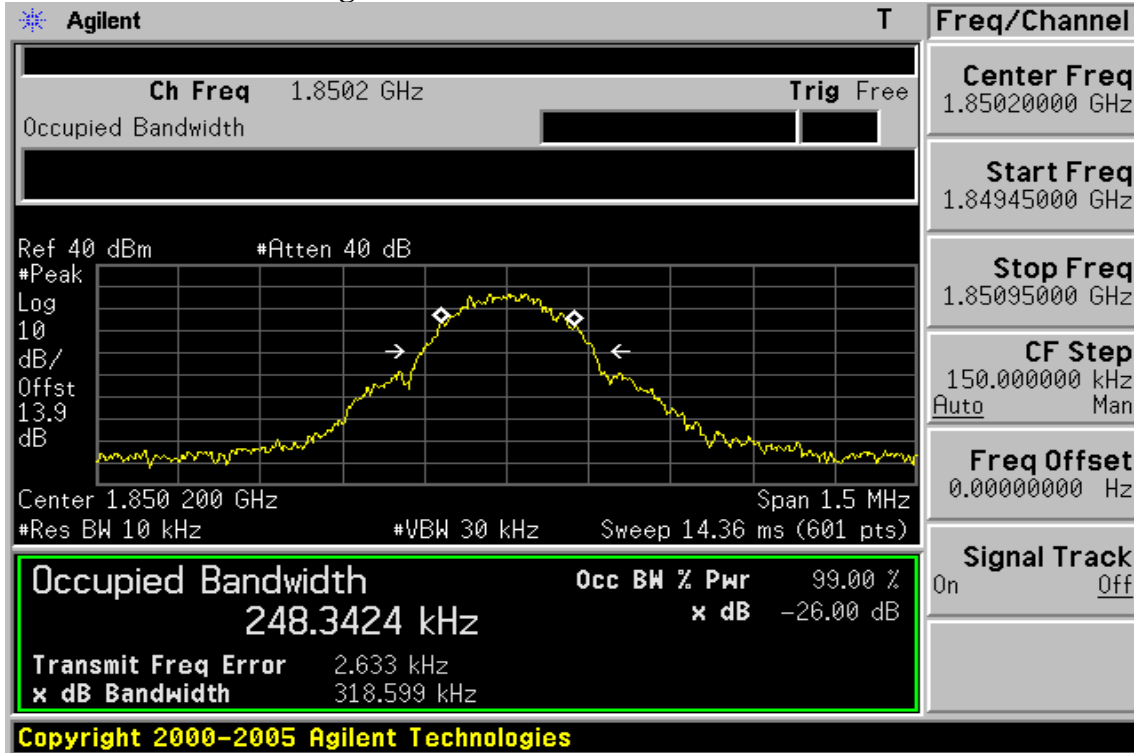


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11: GPRS 1900 Channel Mid

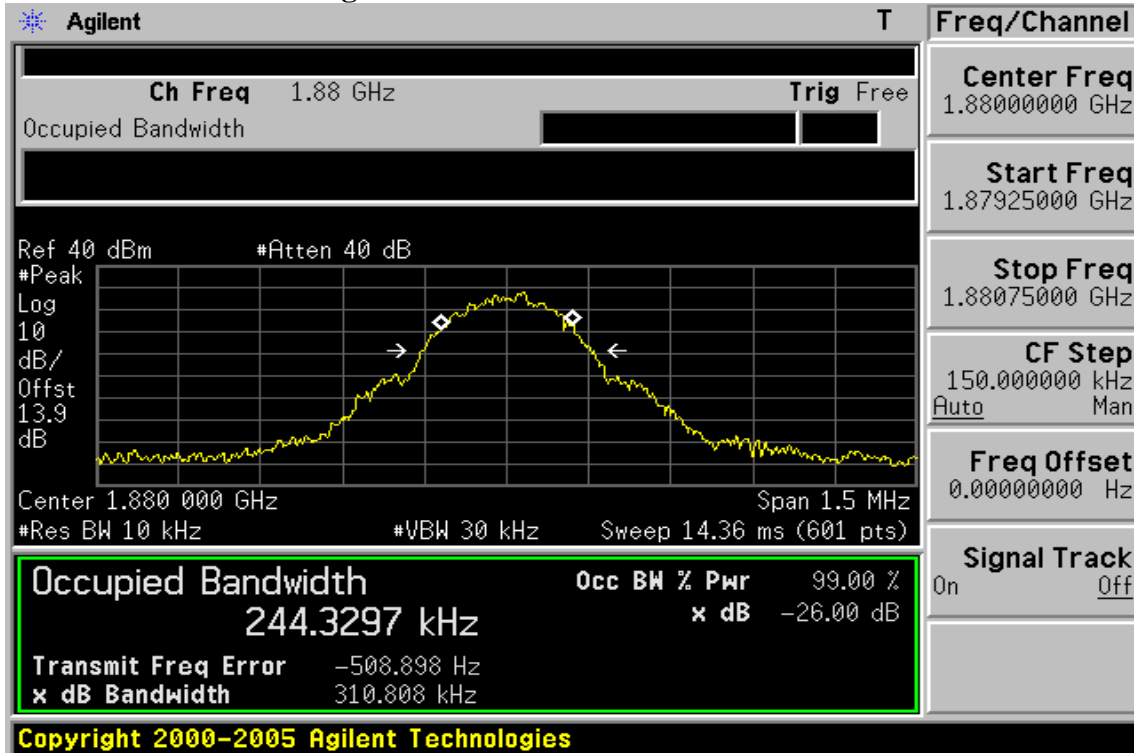
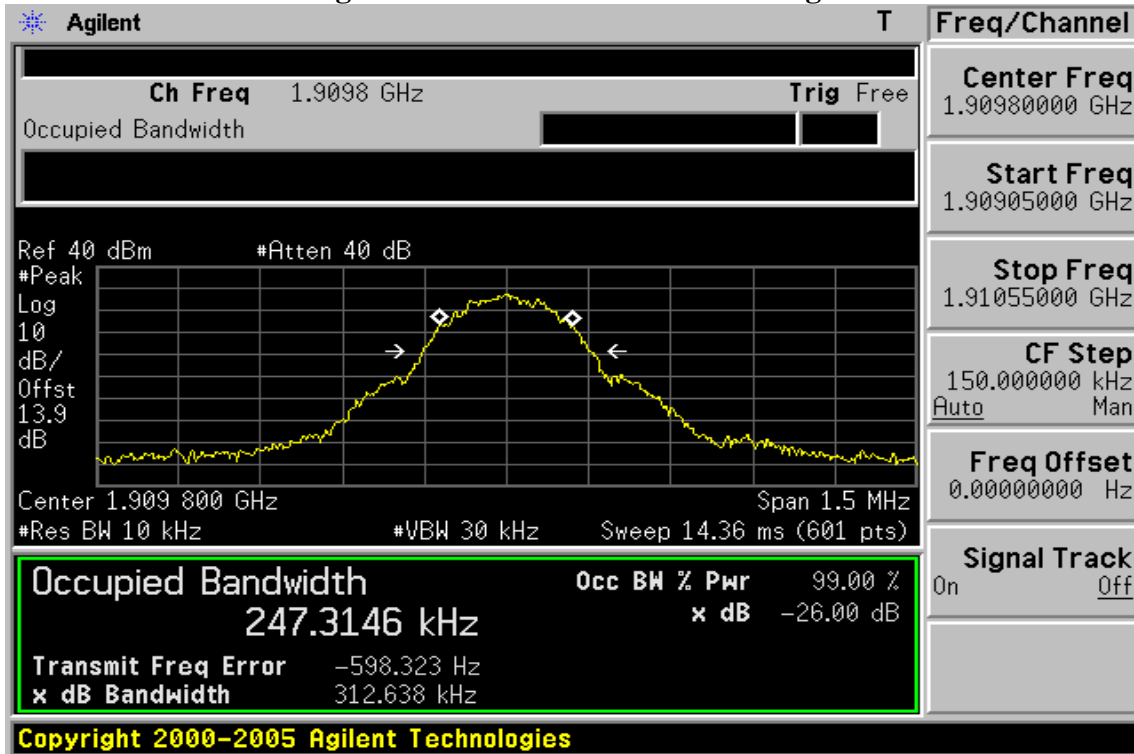


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

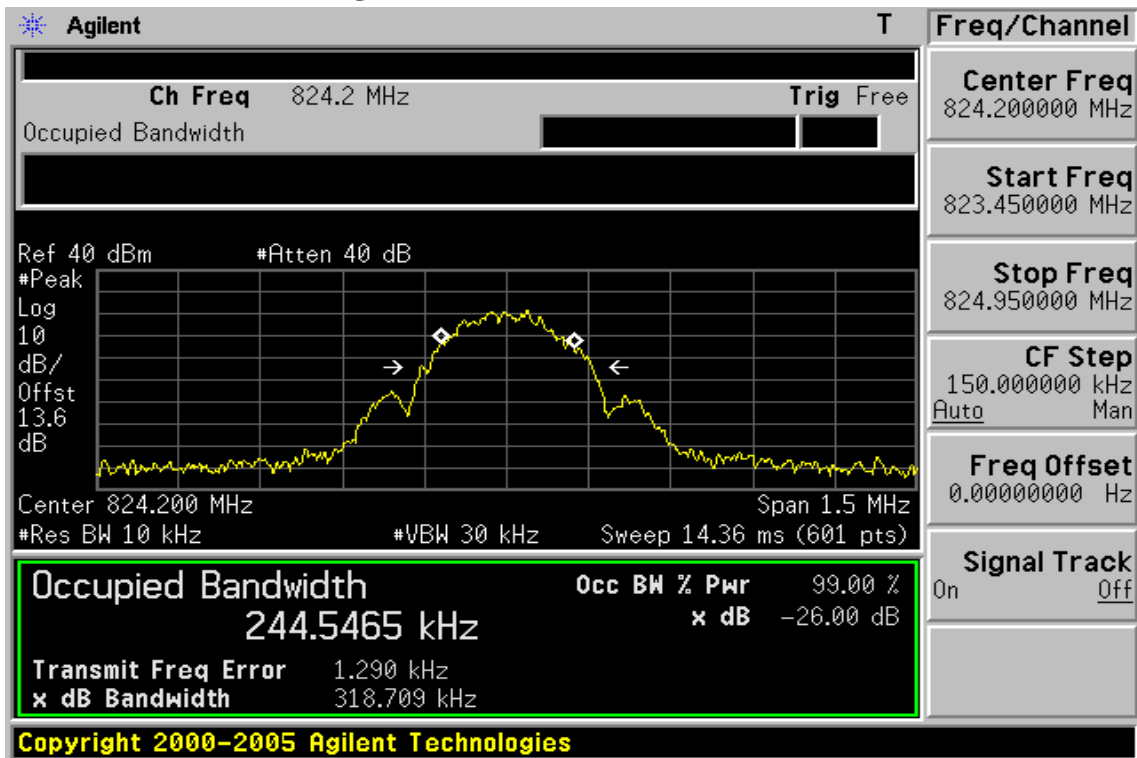
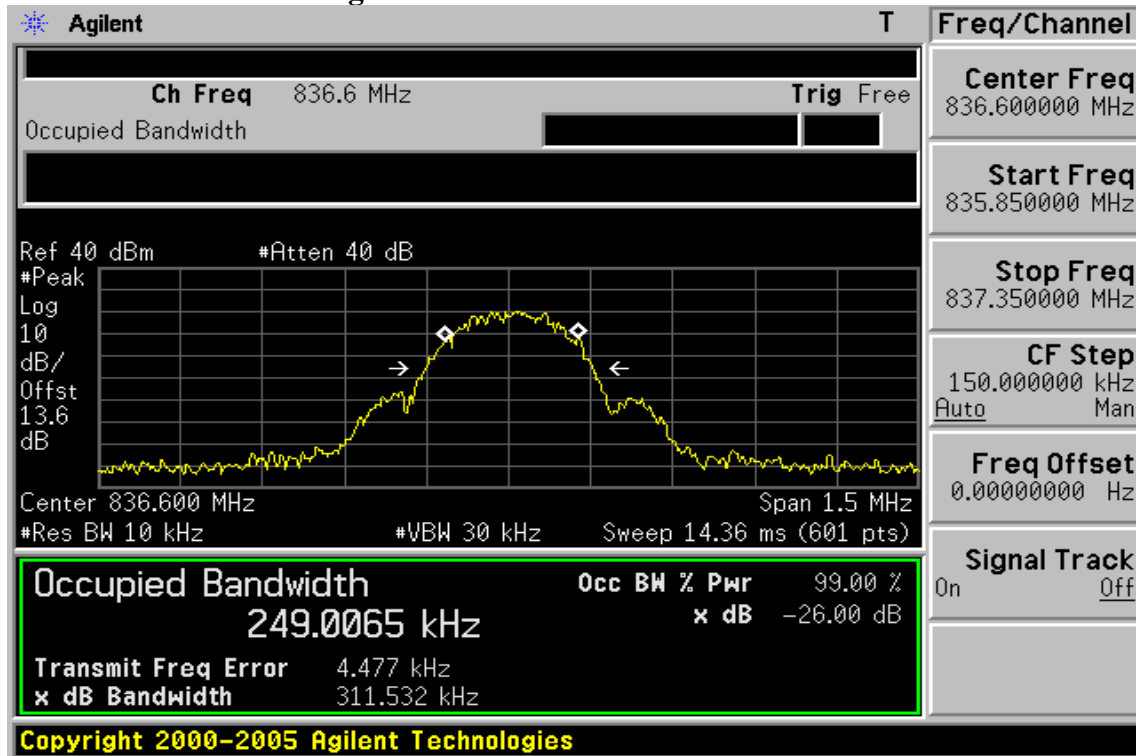


Figure 8-14: EDGE 850 Channel Mid



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GPRS Figure 8-15: EDGE 850 Channel High

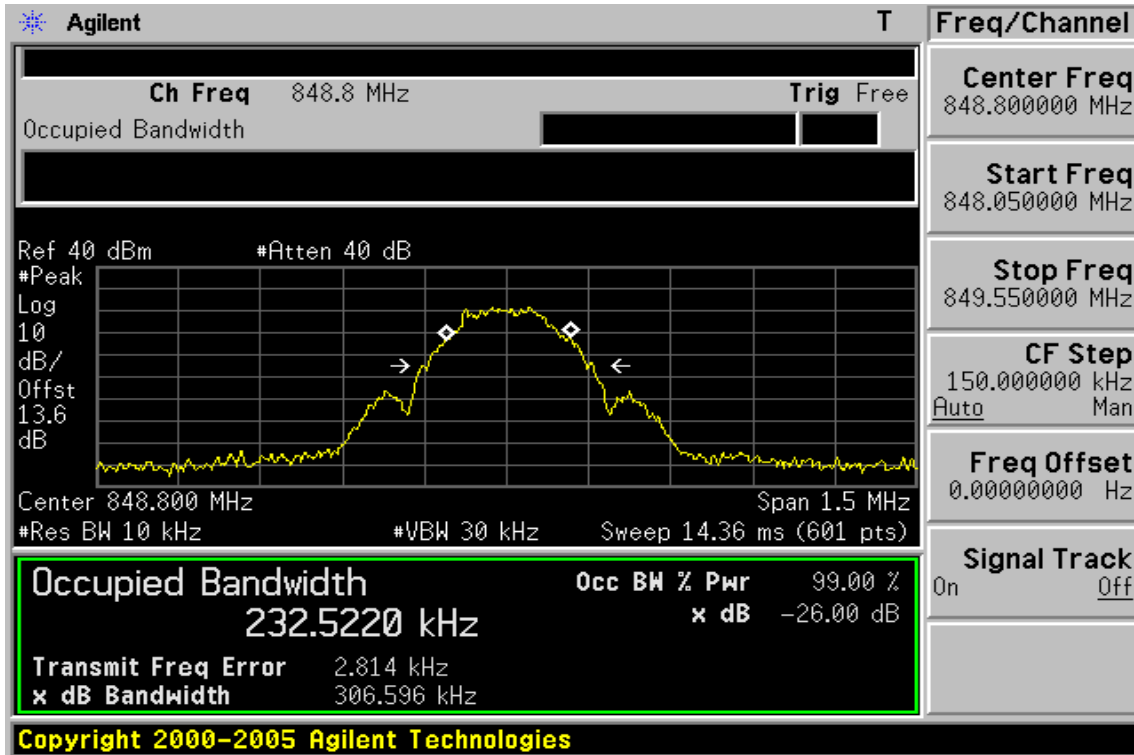
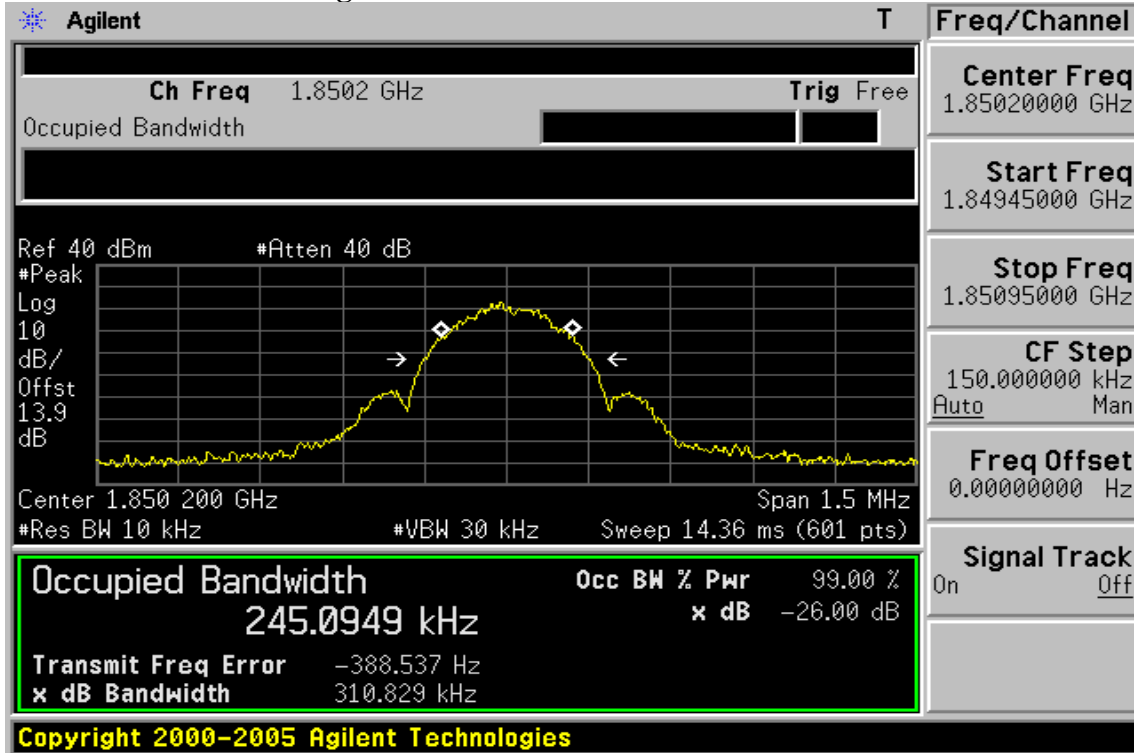


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17: EDGE 1900 Channel Mid

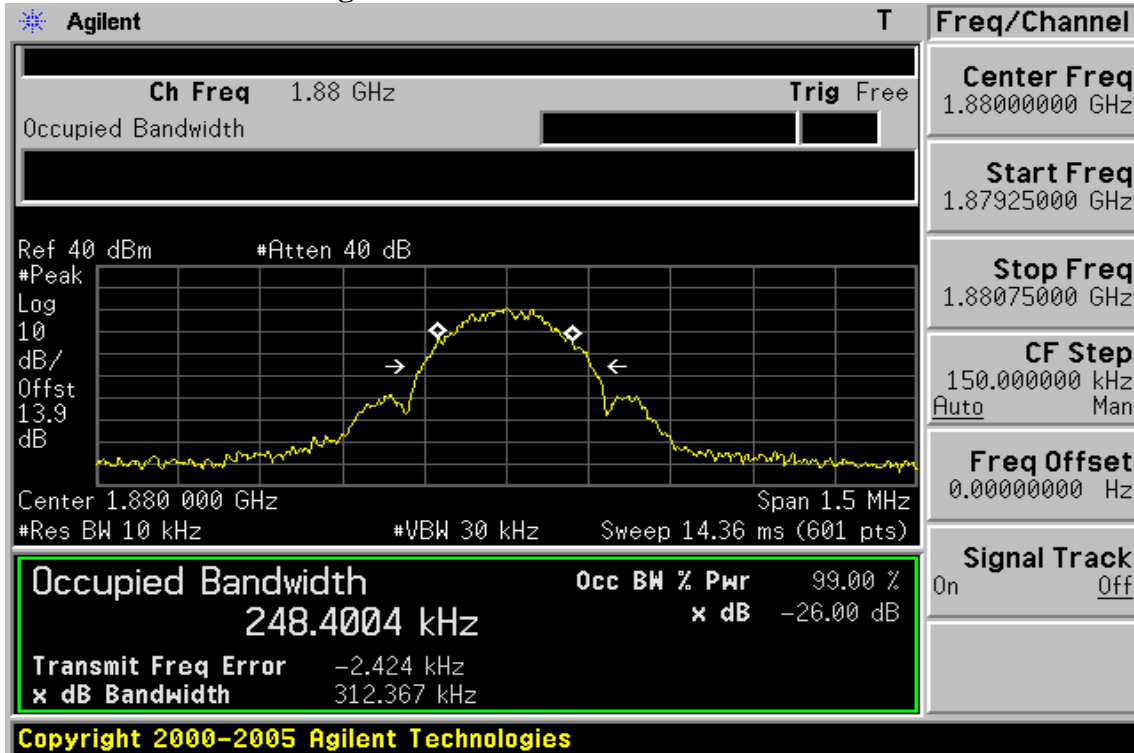
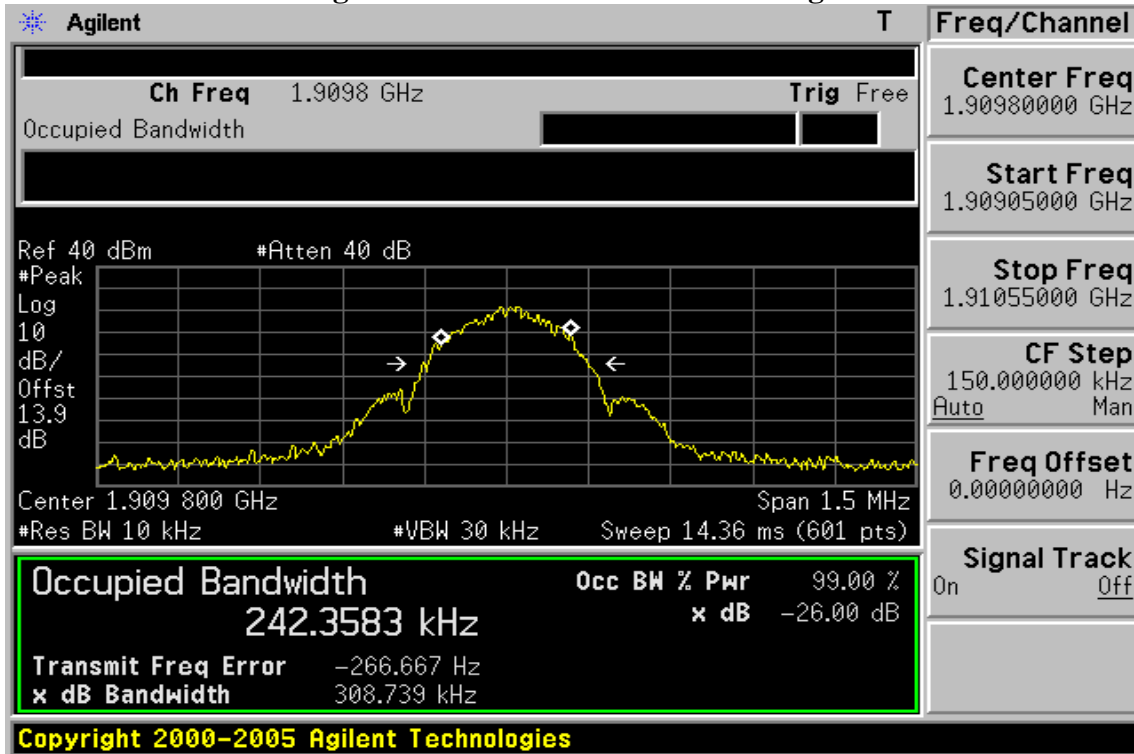


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Low

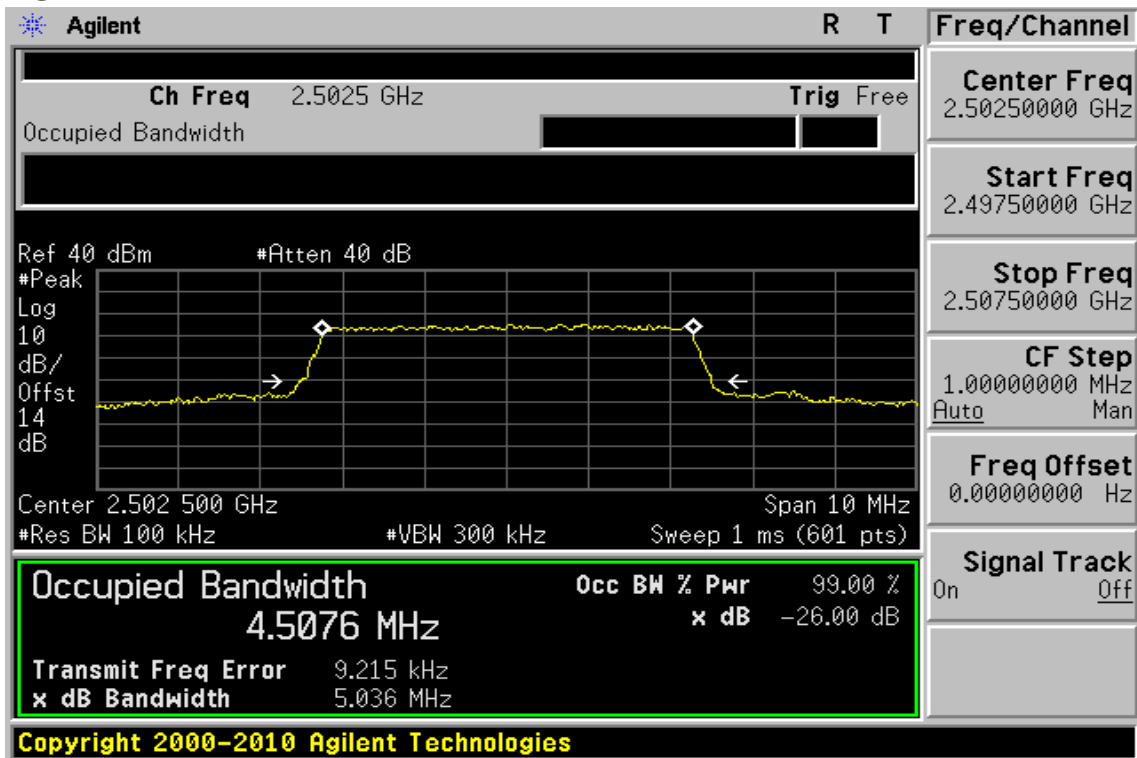
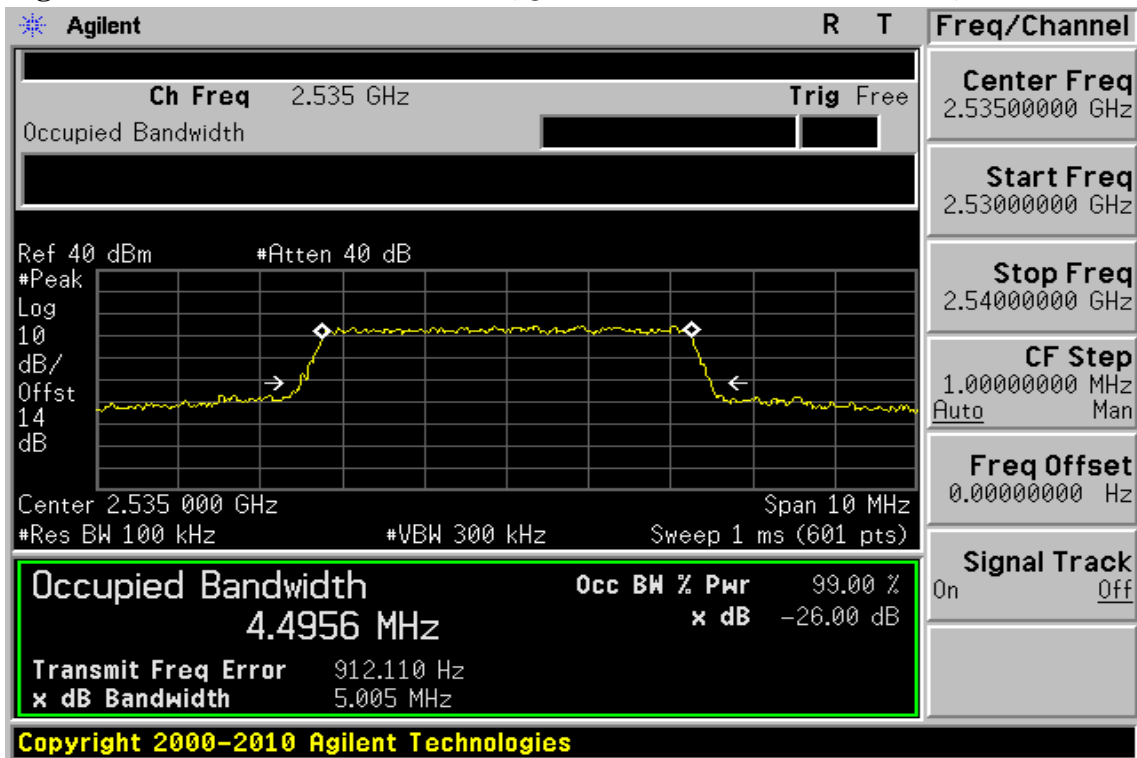


Figure 8-20: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 8-21: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel High

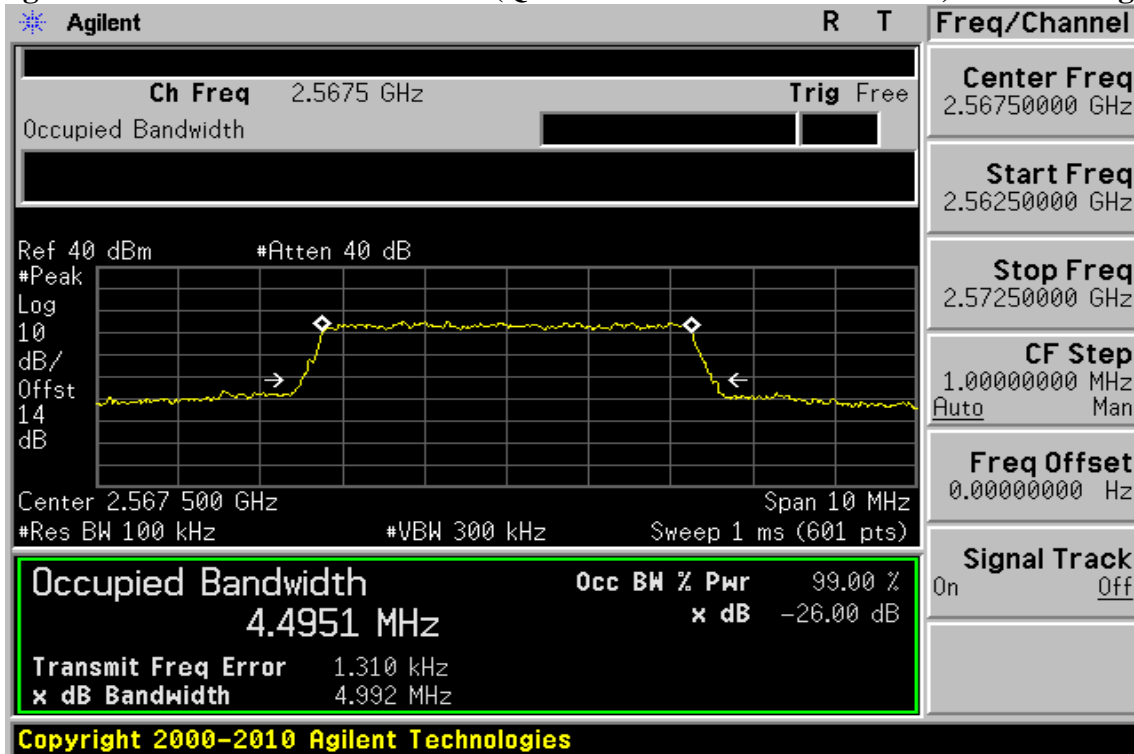
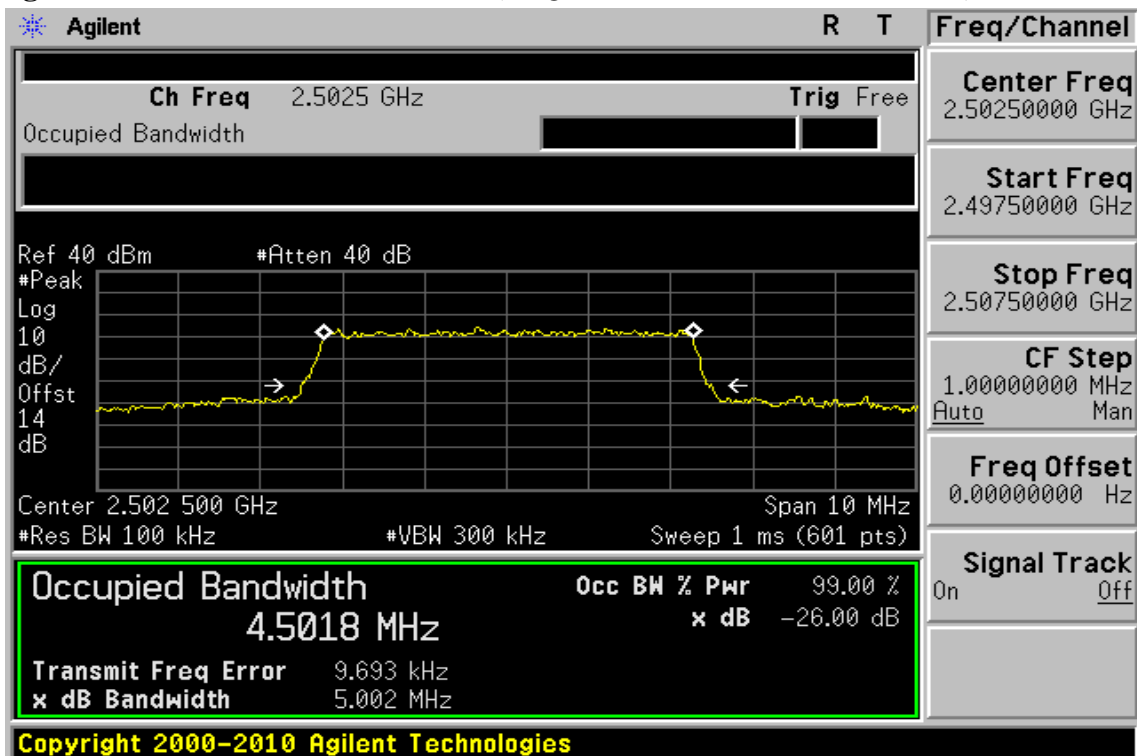


Figure 8-22: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 8-23: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Mid

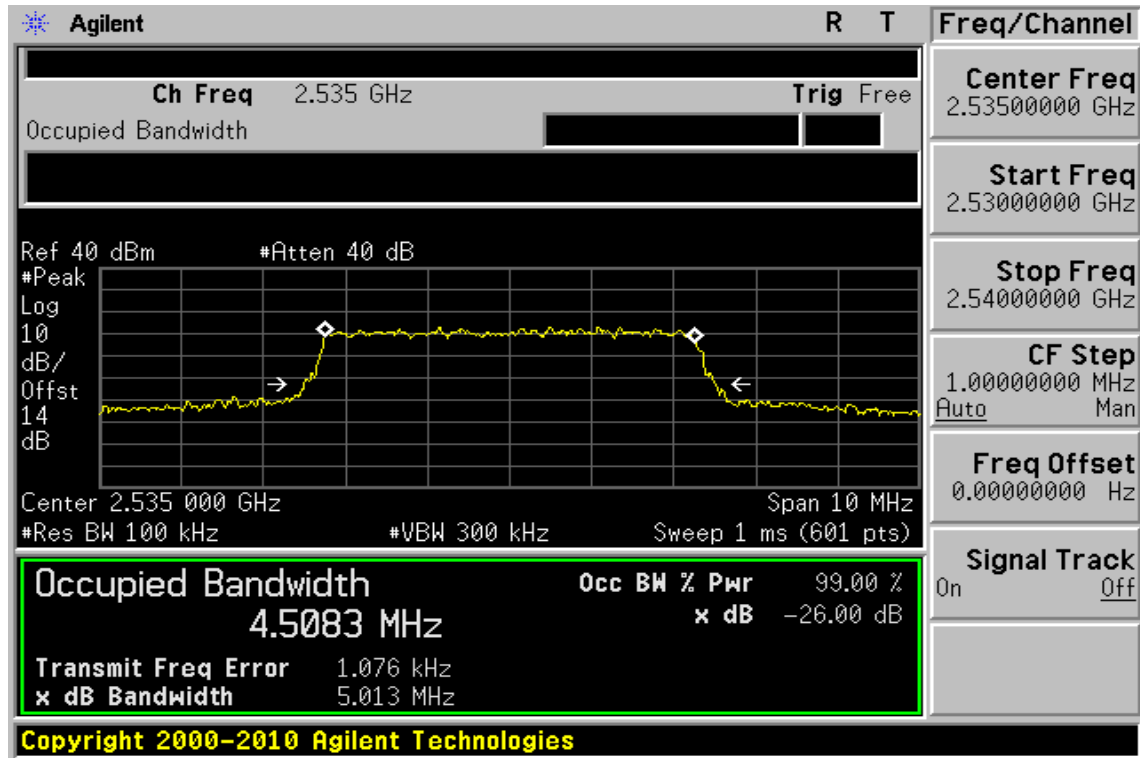
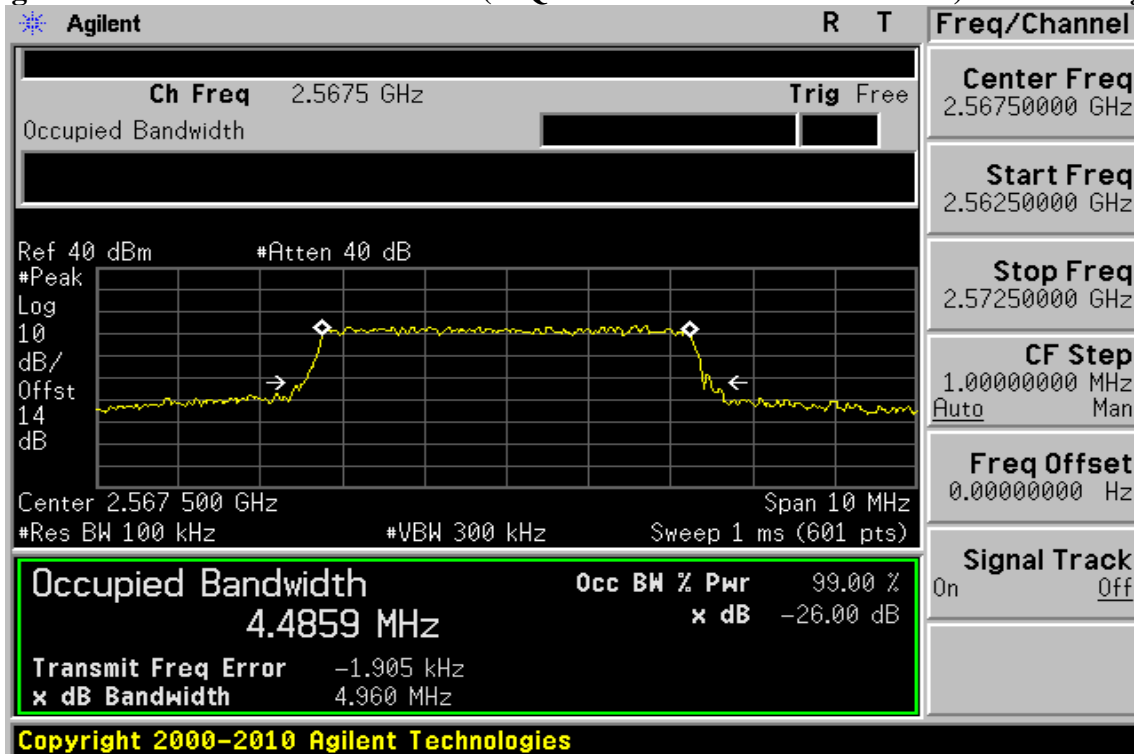


Figure 8-24: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 8-25: 10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Low

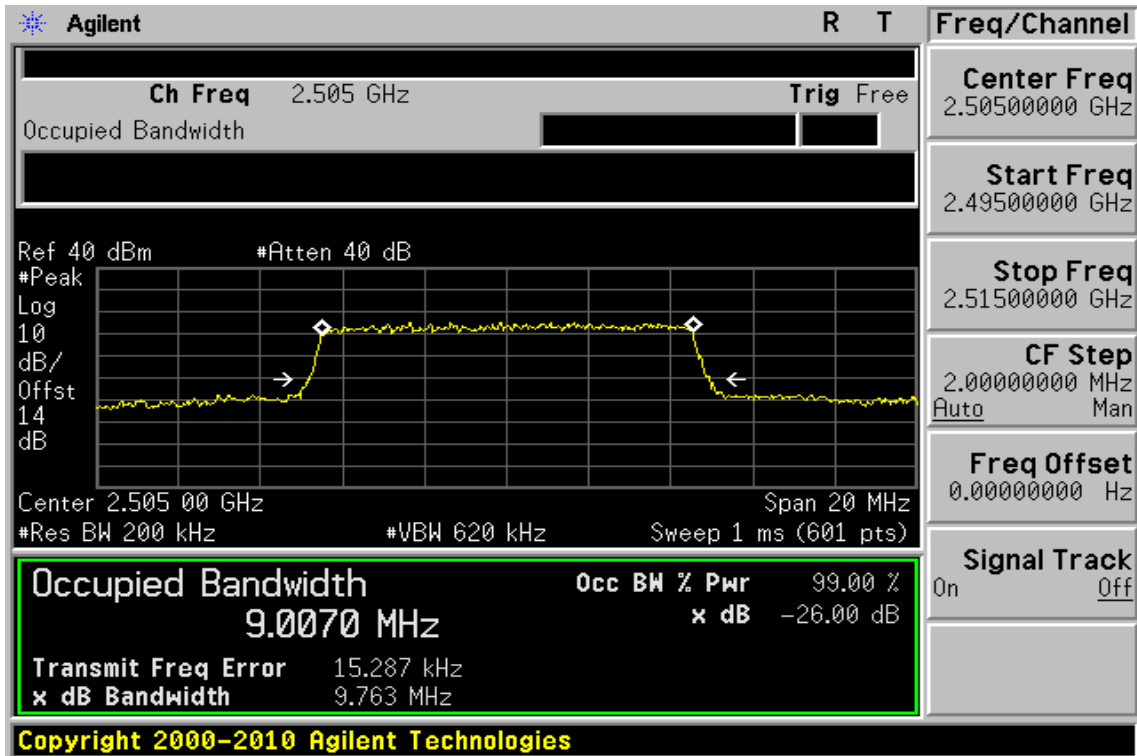
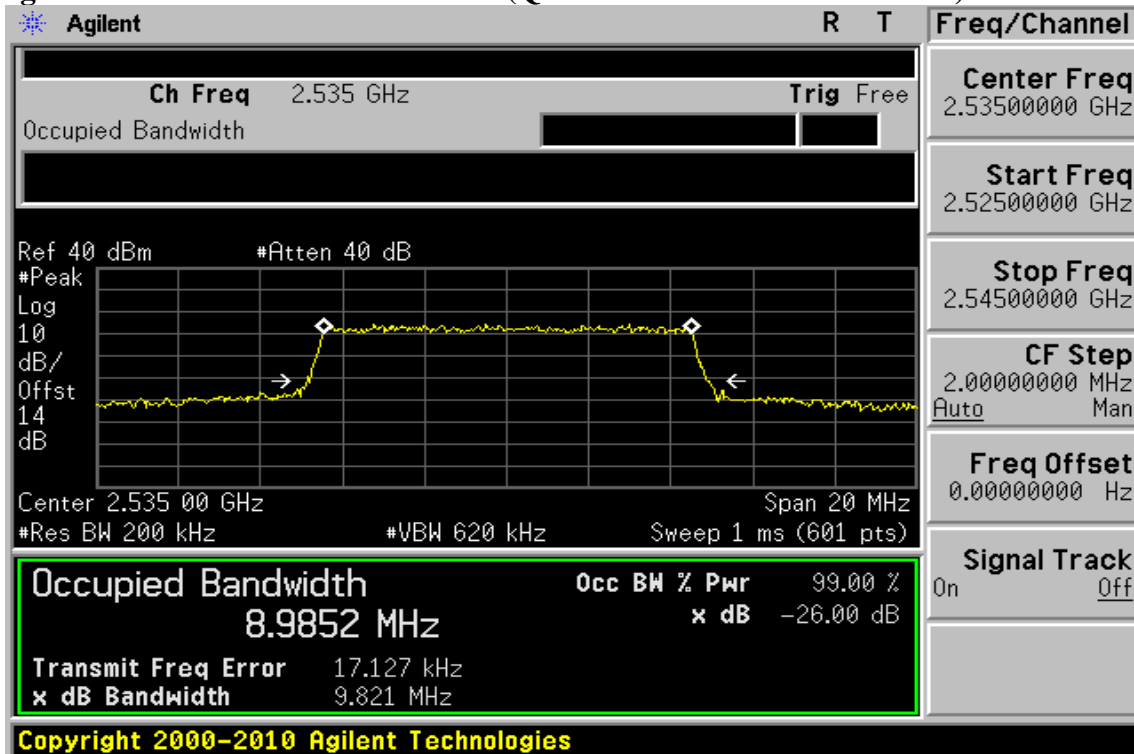


Figure 8-26: 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 8-27: 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel High

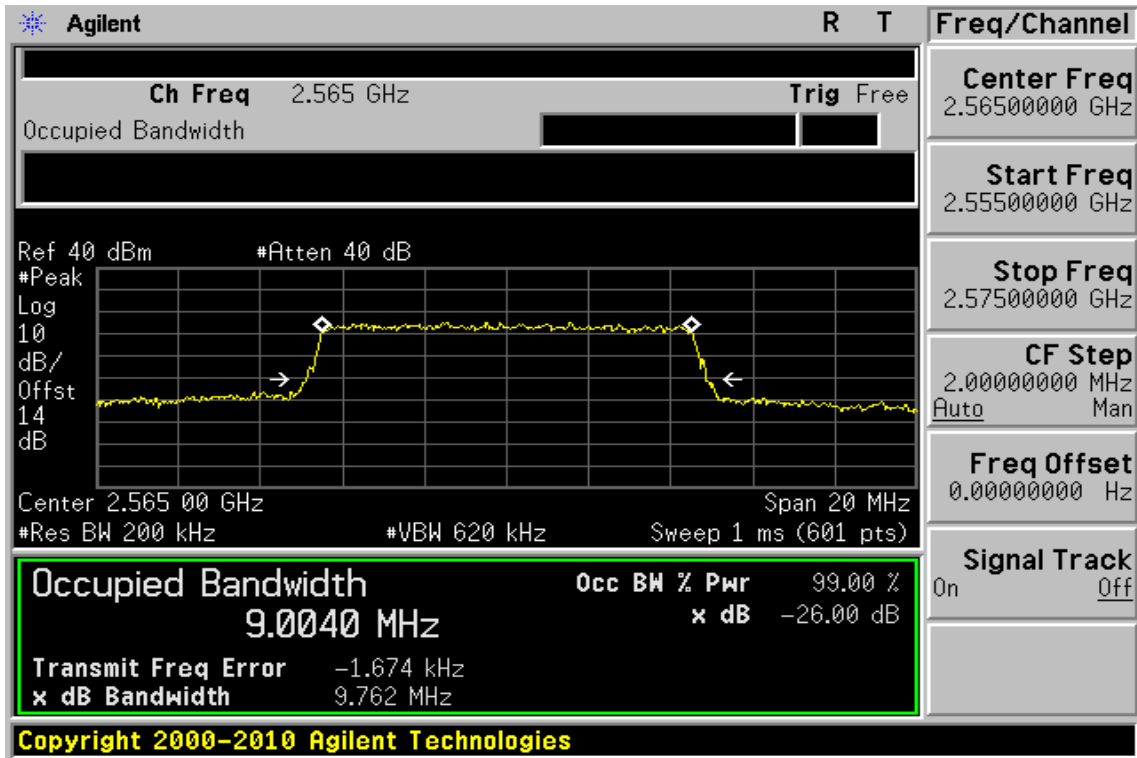
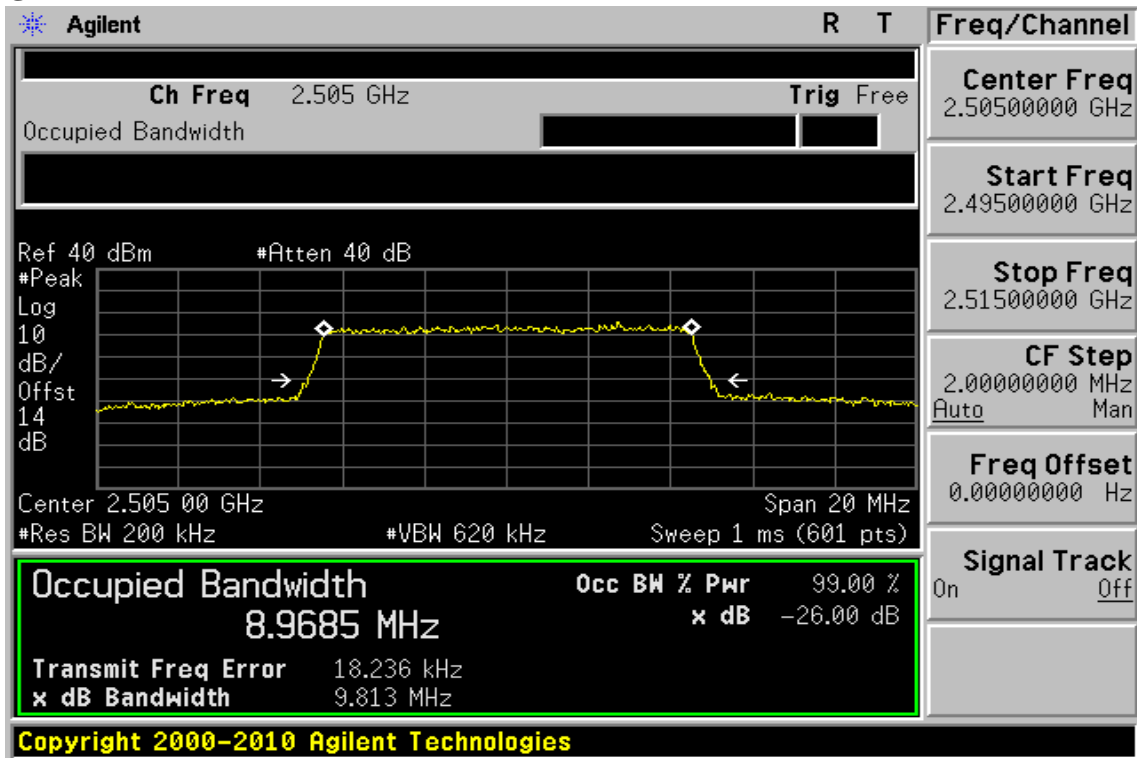


Figure 8-28: 10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 8-29: 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel Mid

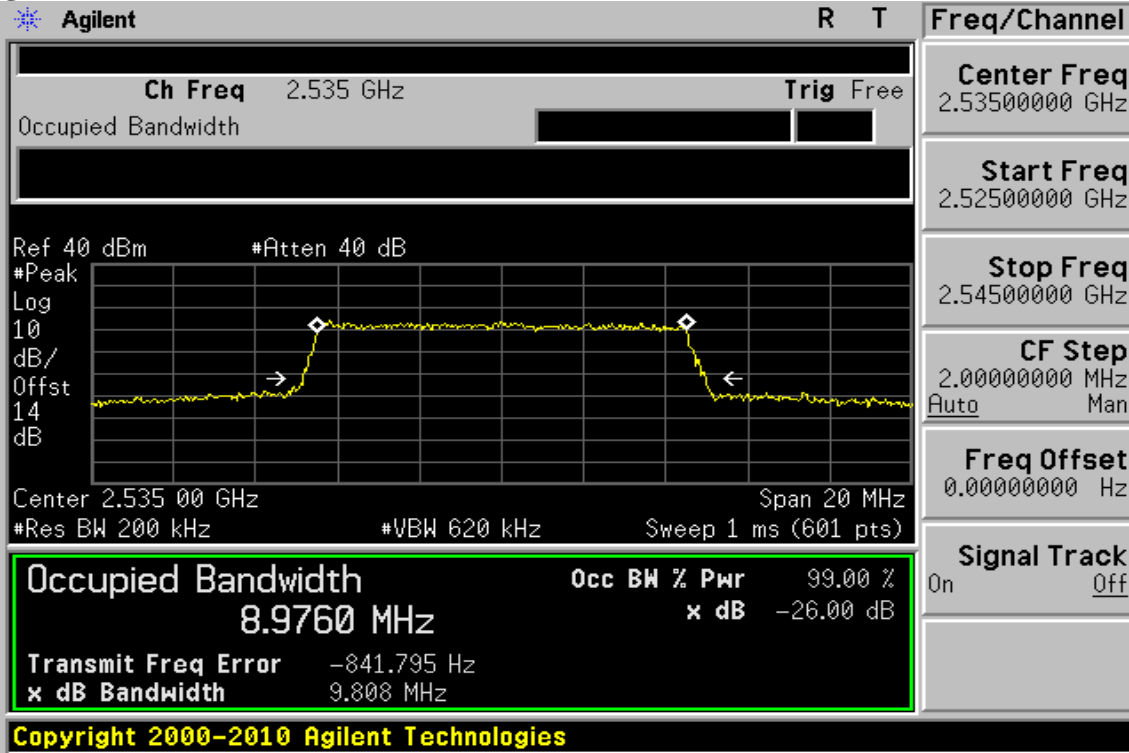
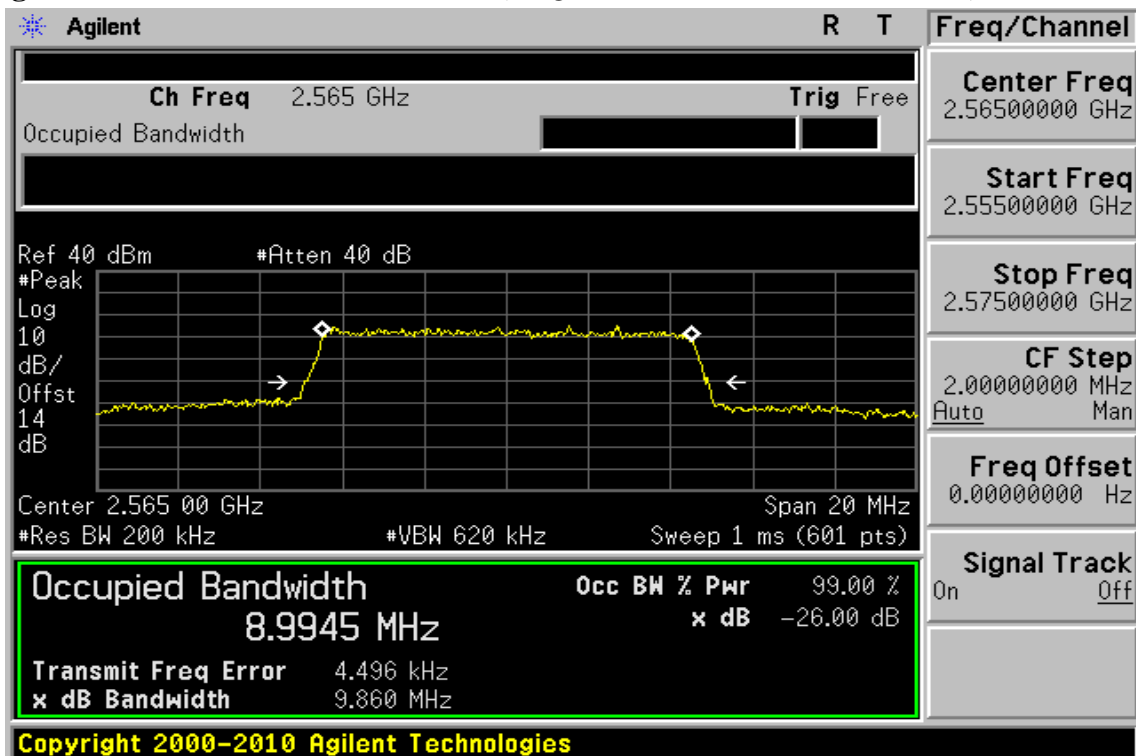


Figure 8-30: 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 8-31: 15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Low

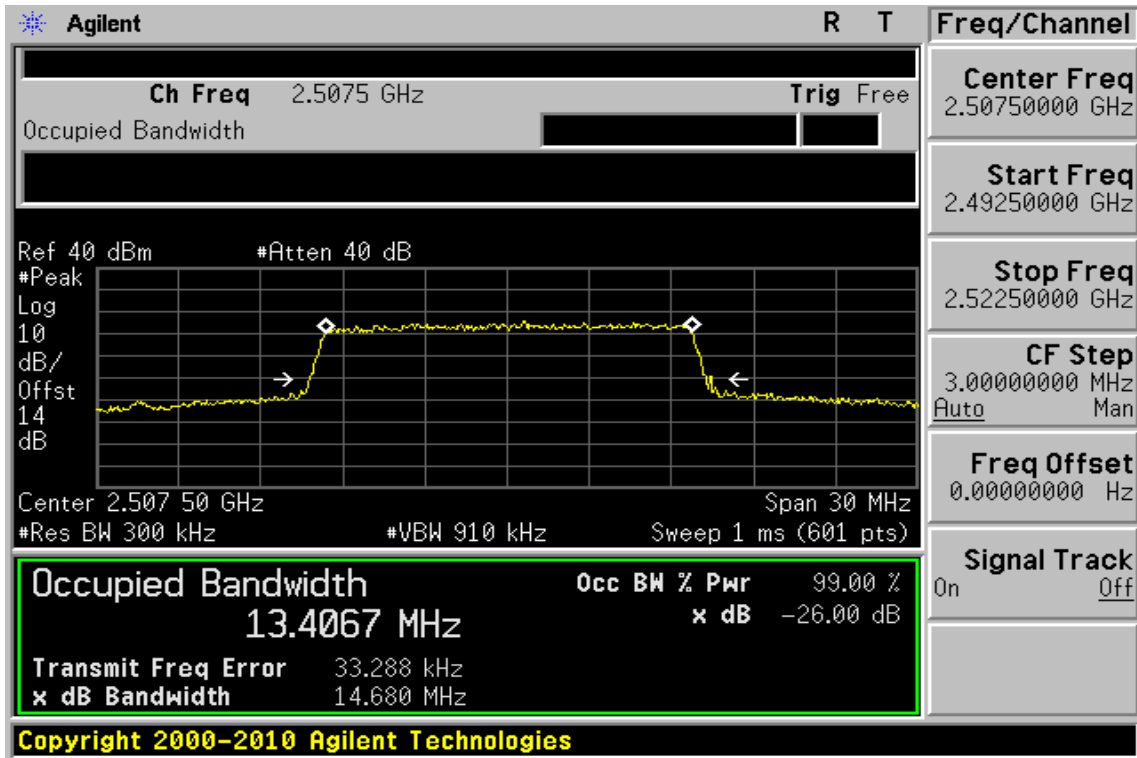
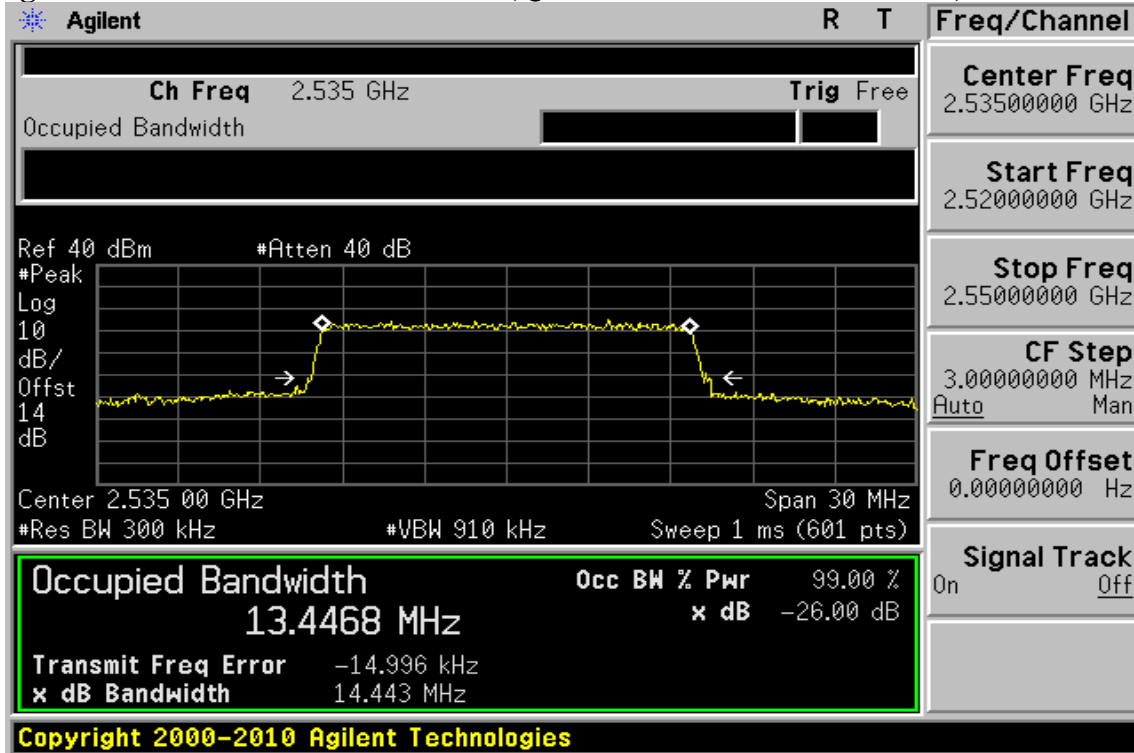


Figure 8-32: 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel Mid



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Figure 8-33: 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel High

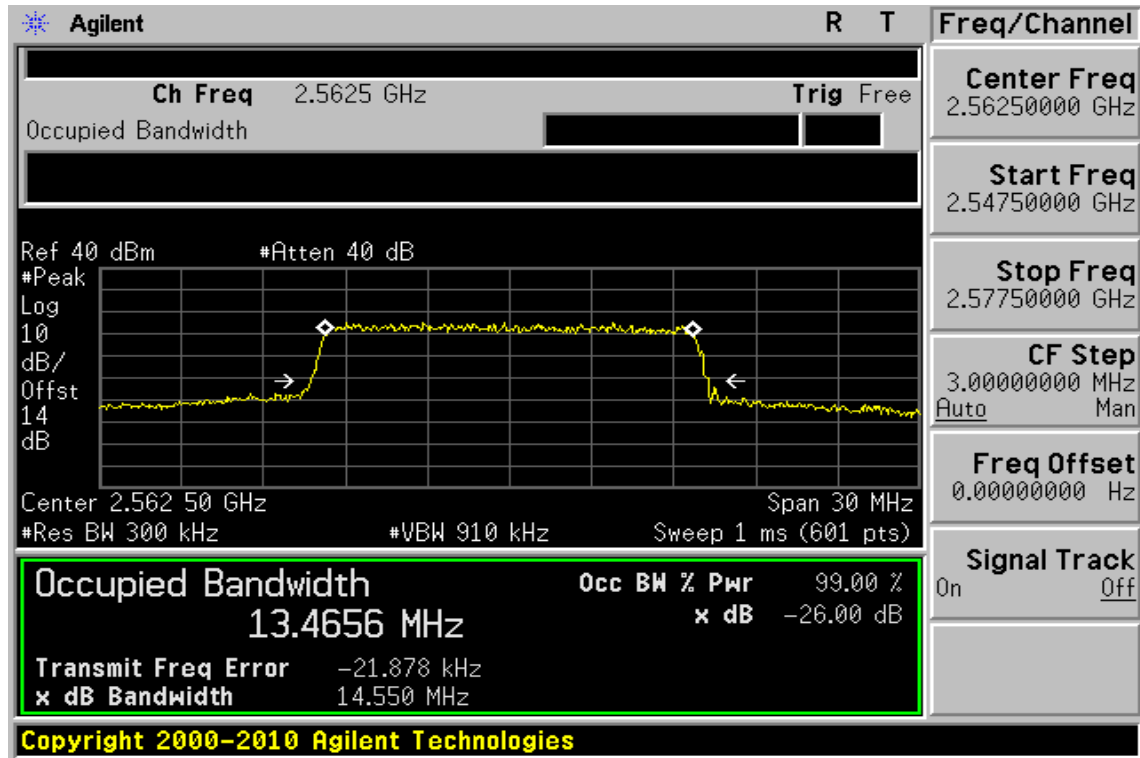
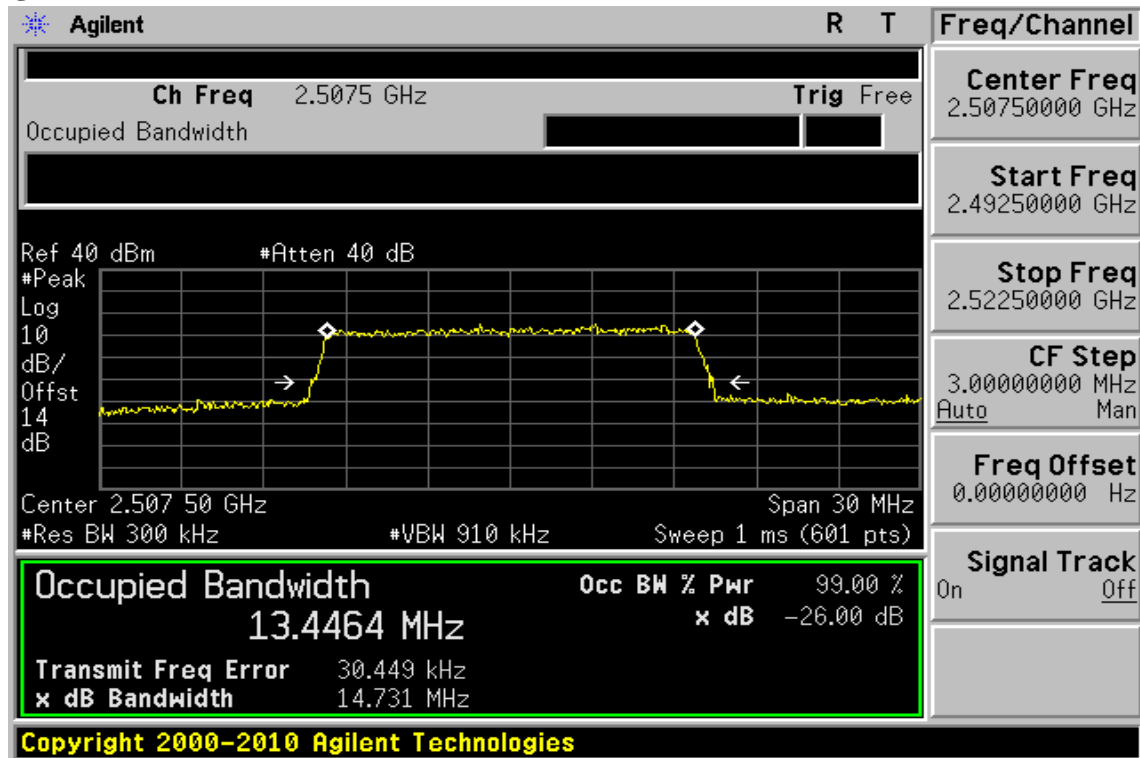


Figure 8-34: 15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0) Channel Low



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Figure 8-35: 10MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel Mid

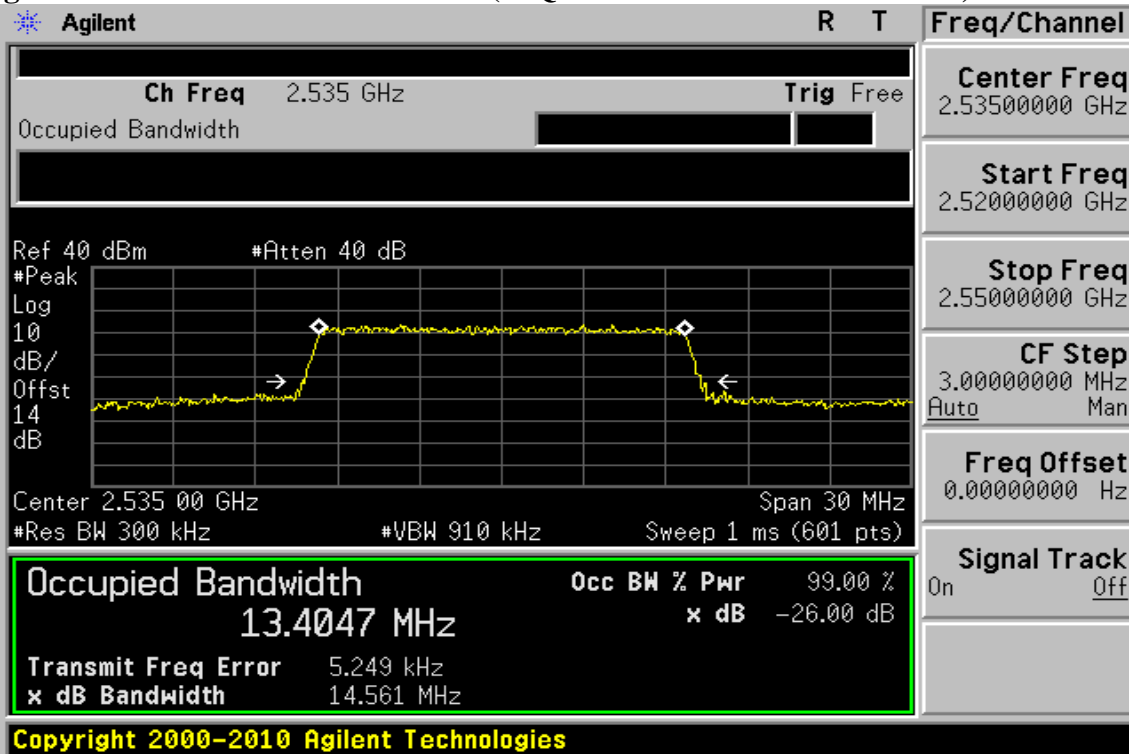
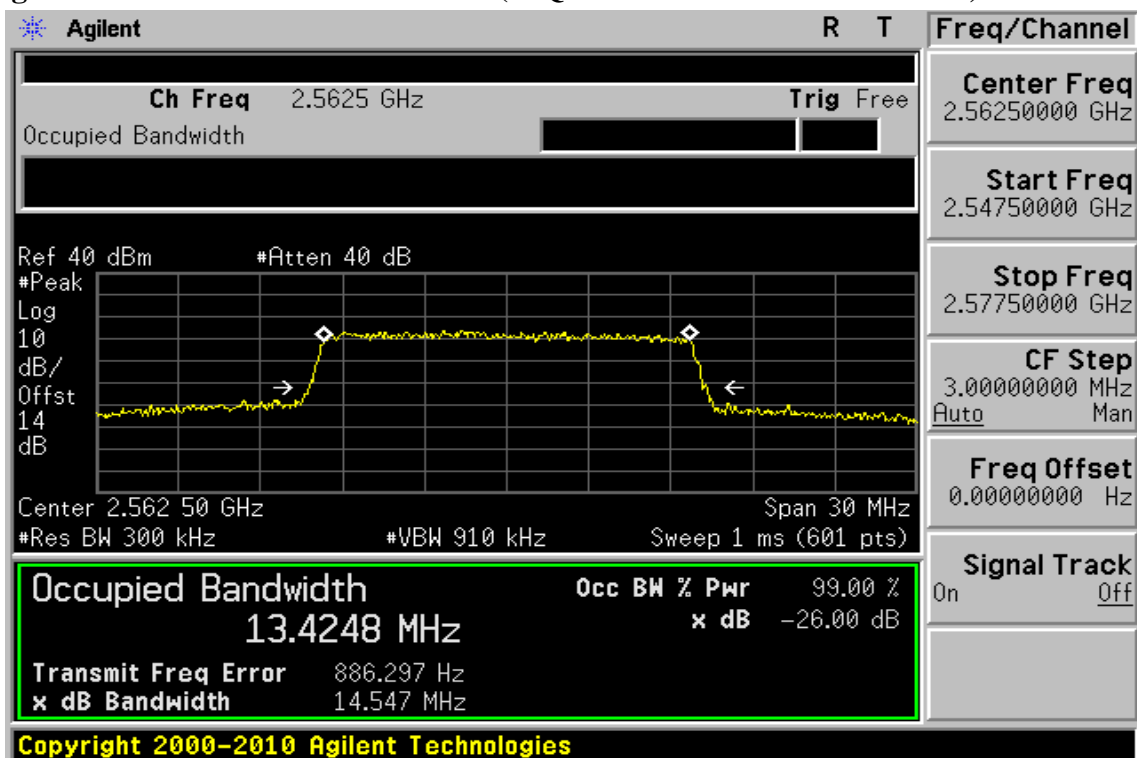


Figure 8-36: 10MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel High



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Figure 8-37: 20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Low

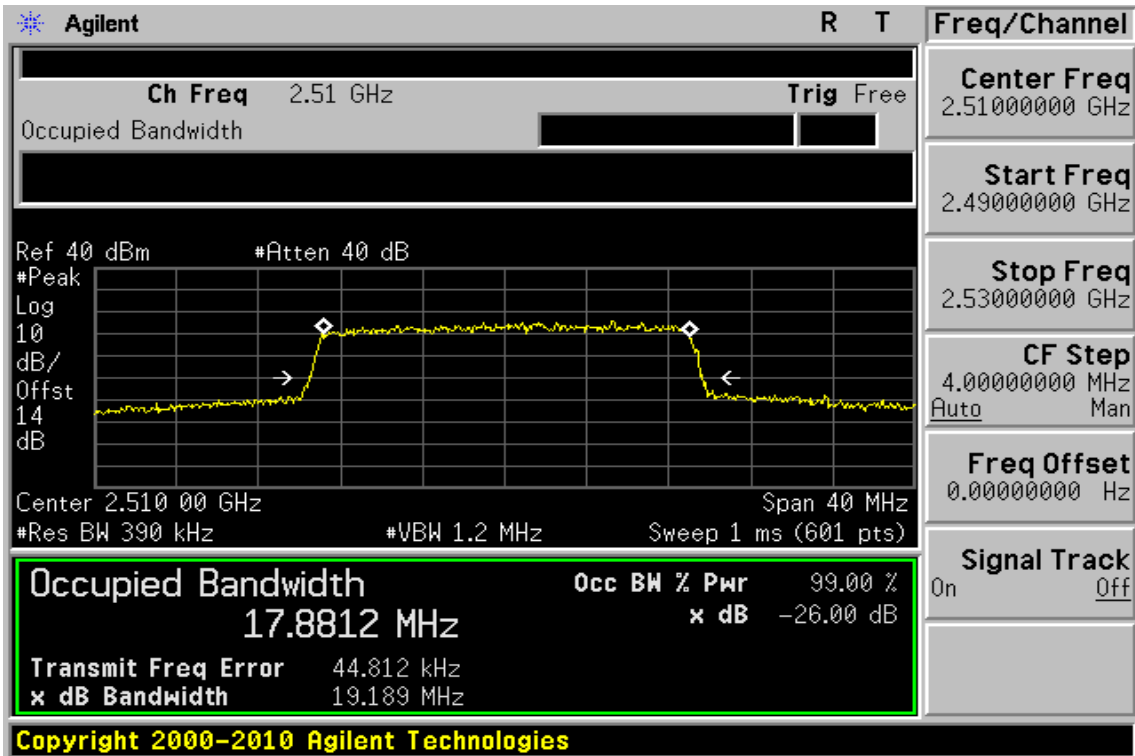
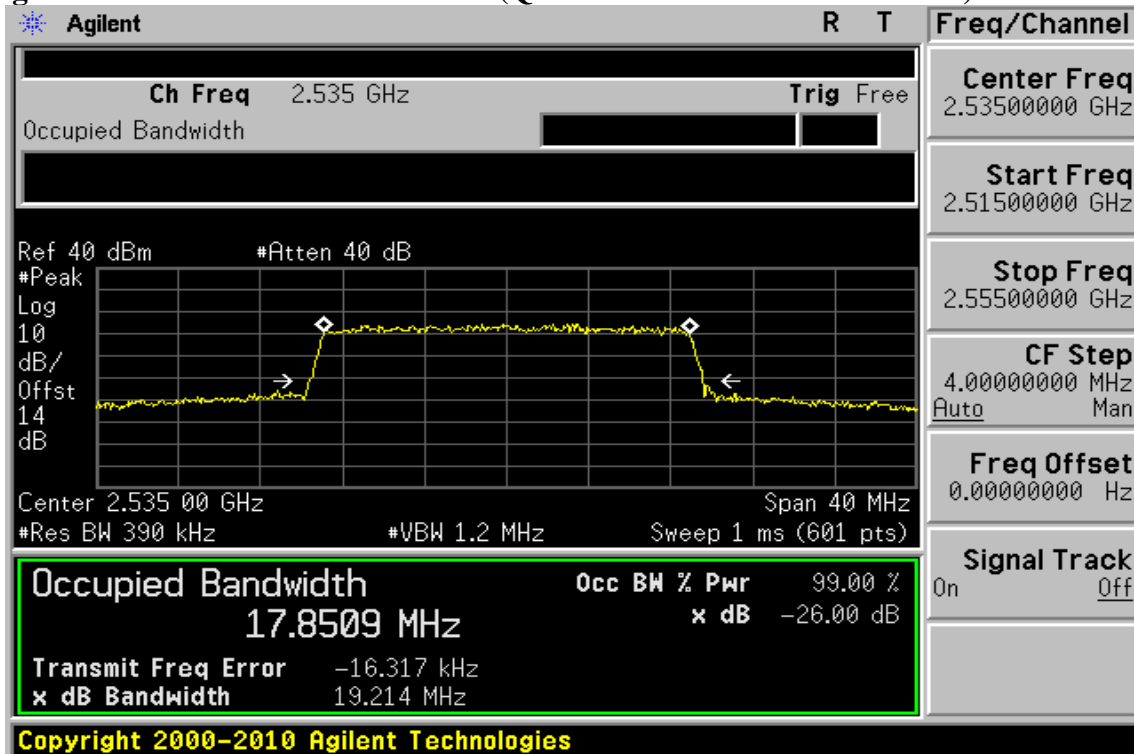


Figure 8-38: 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 8-39: 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel High

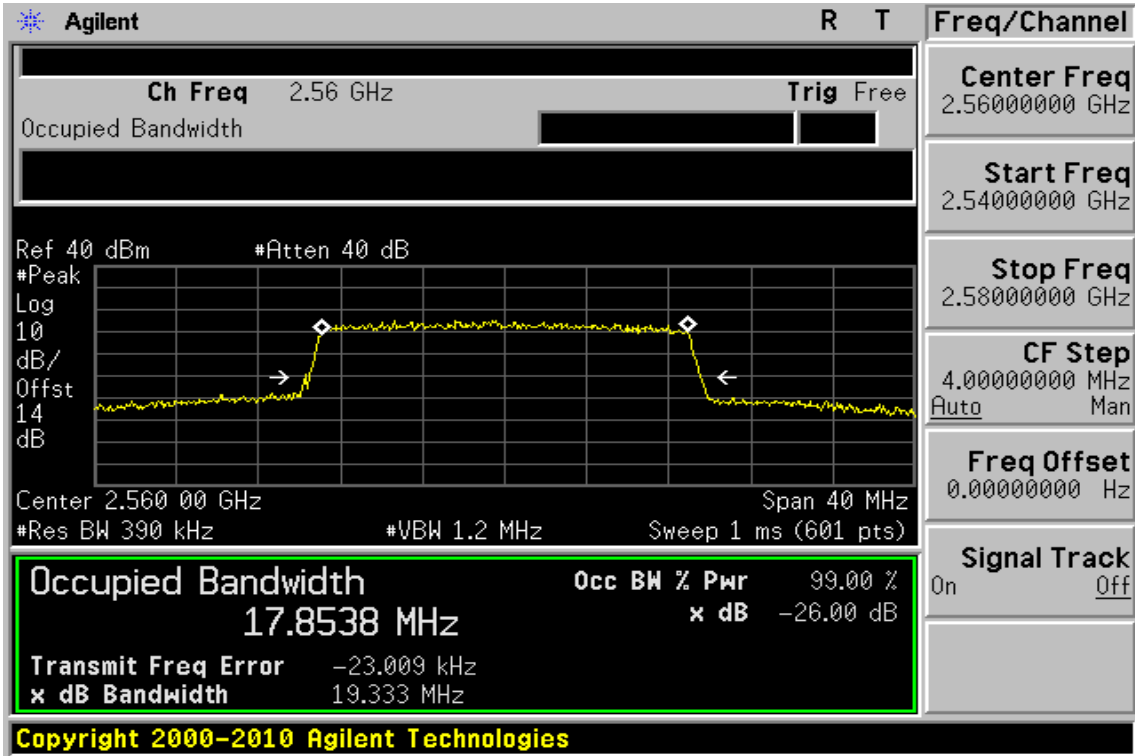
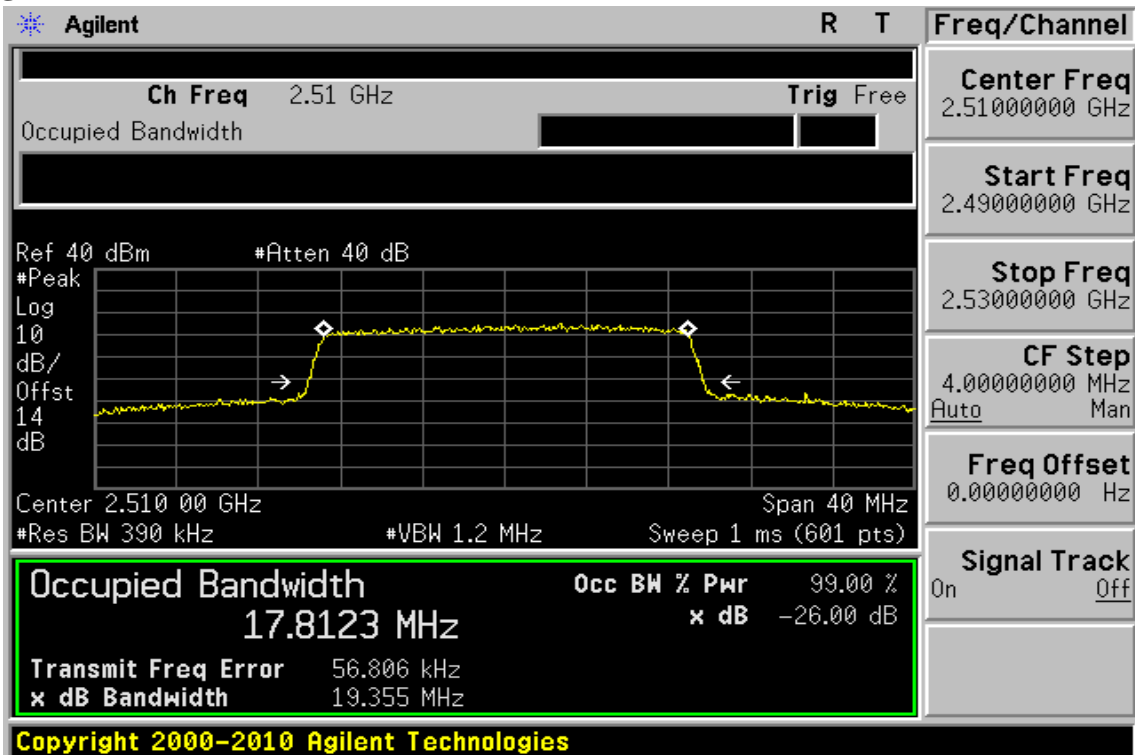


Figure 8-40: 20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0) Channel Low



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Figure8-41: 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel Mid

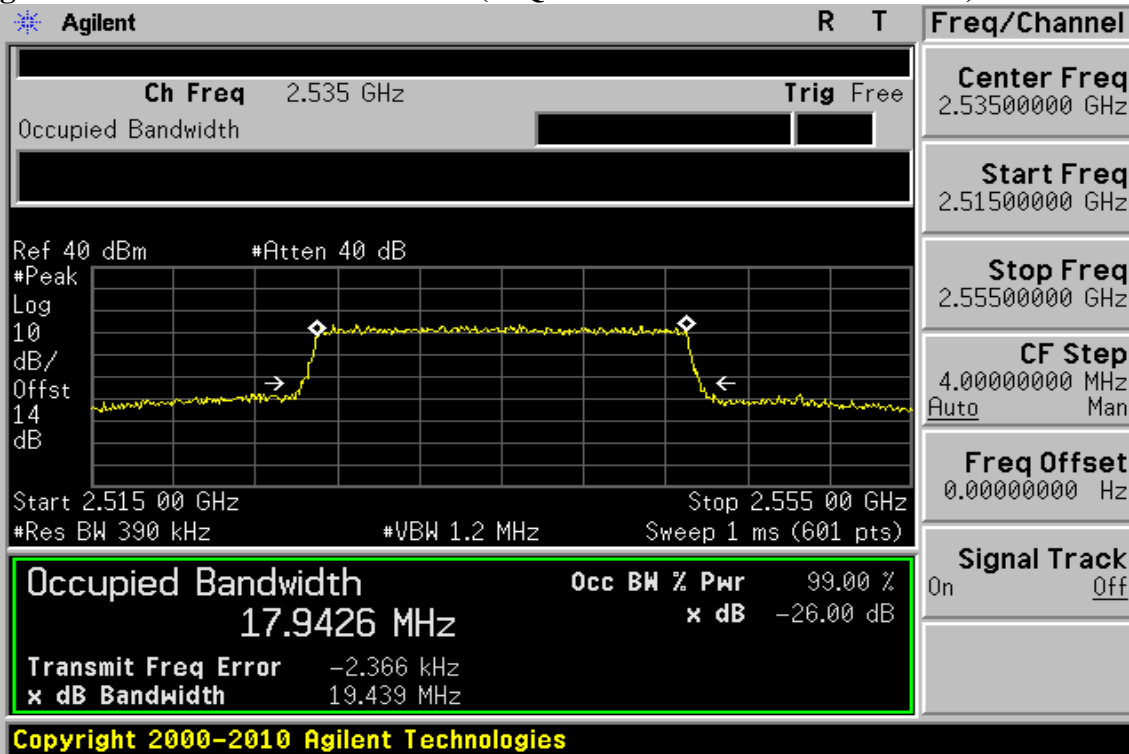
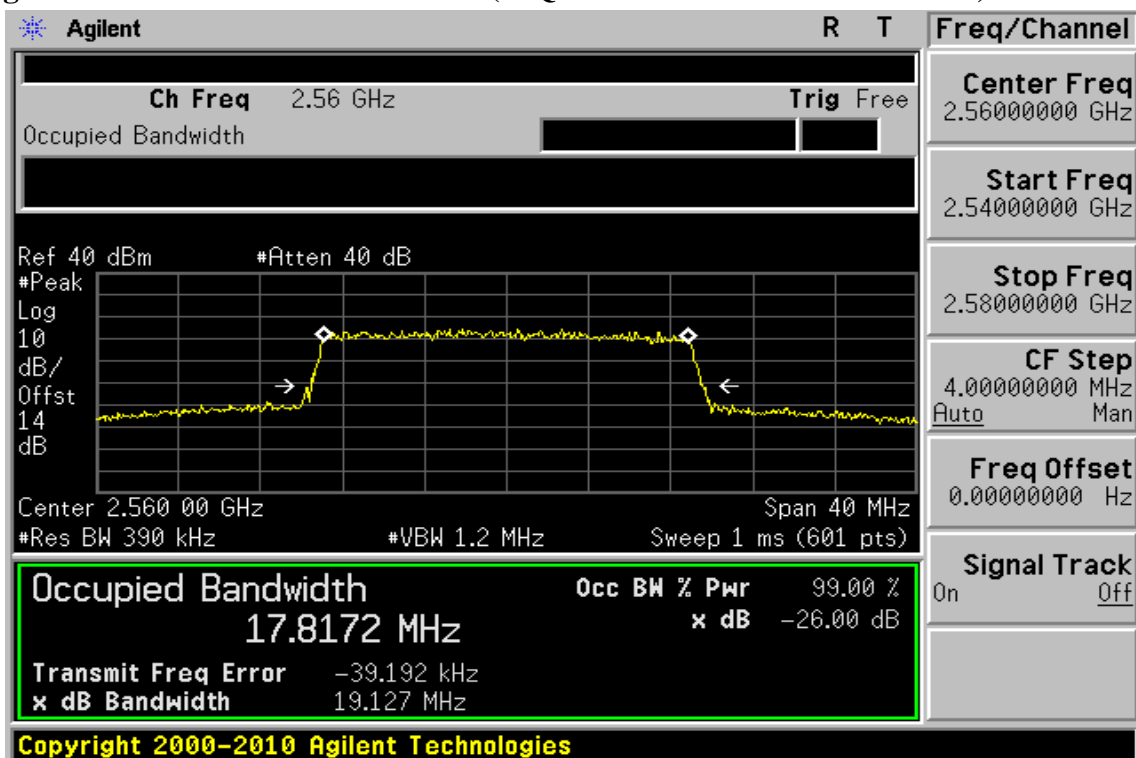


Figure 8-42: 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel High



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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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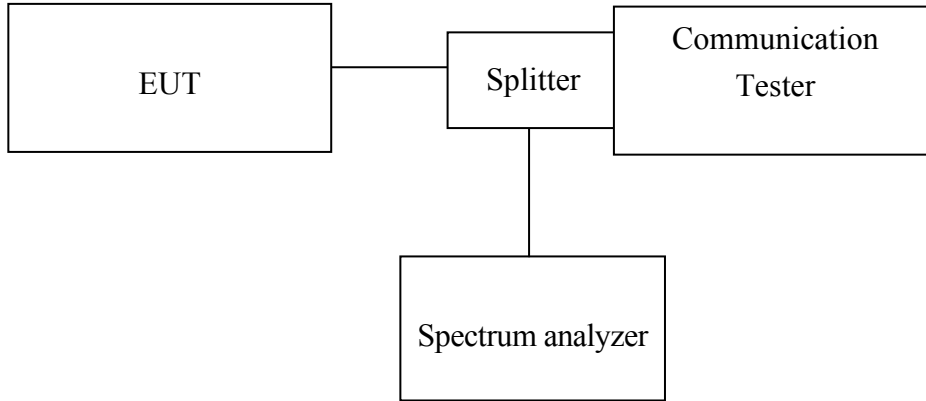
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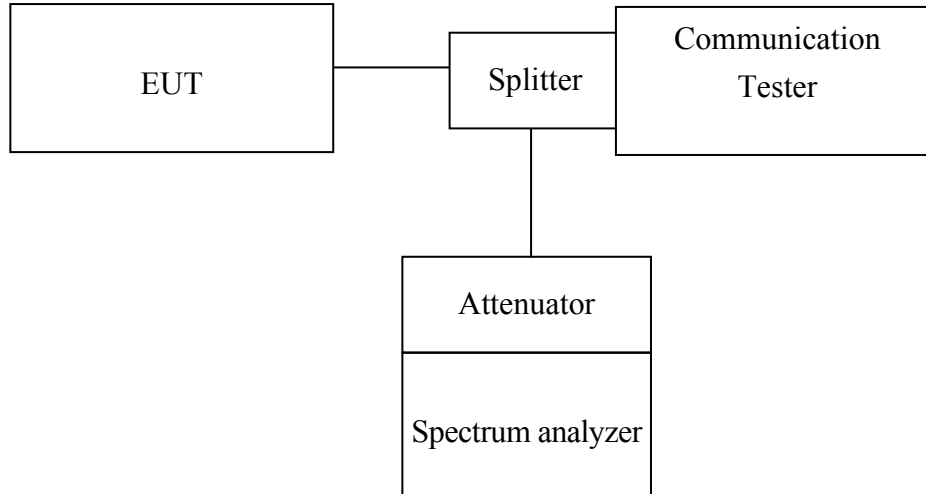
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9.2. Test SET-UP:

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.

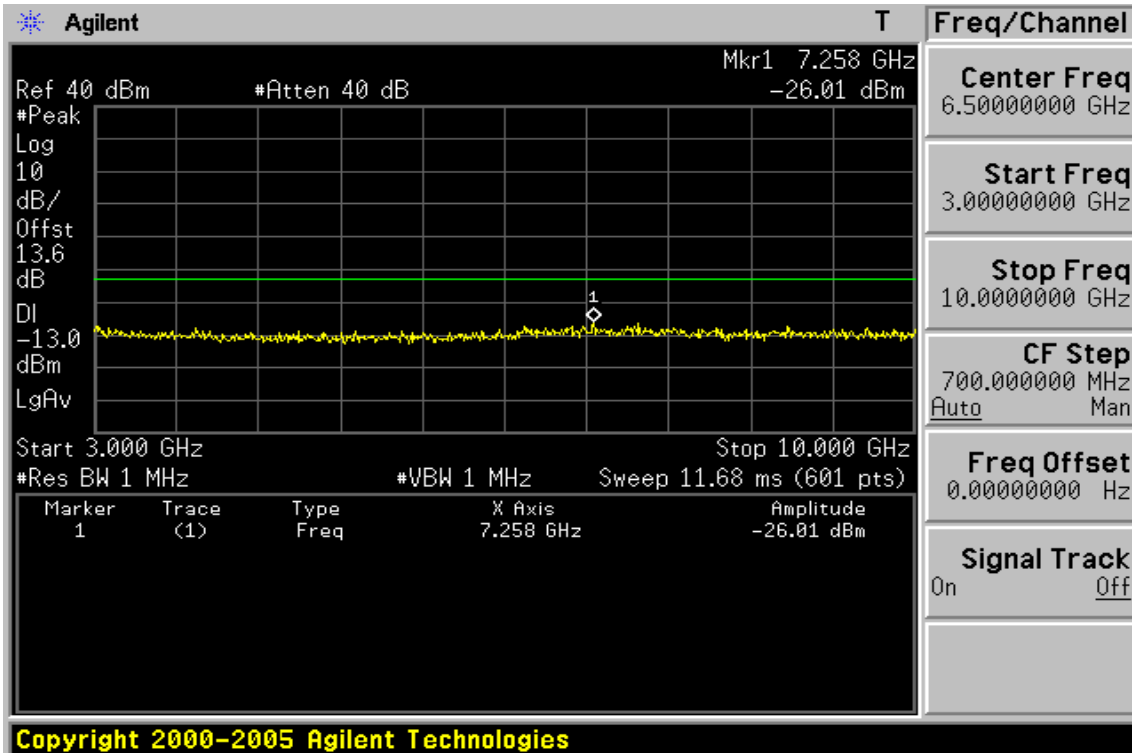
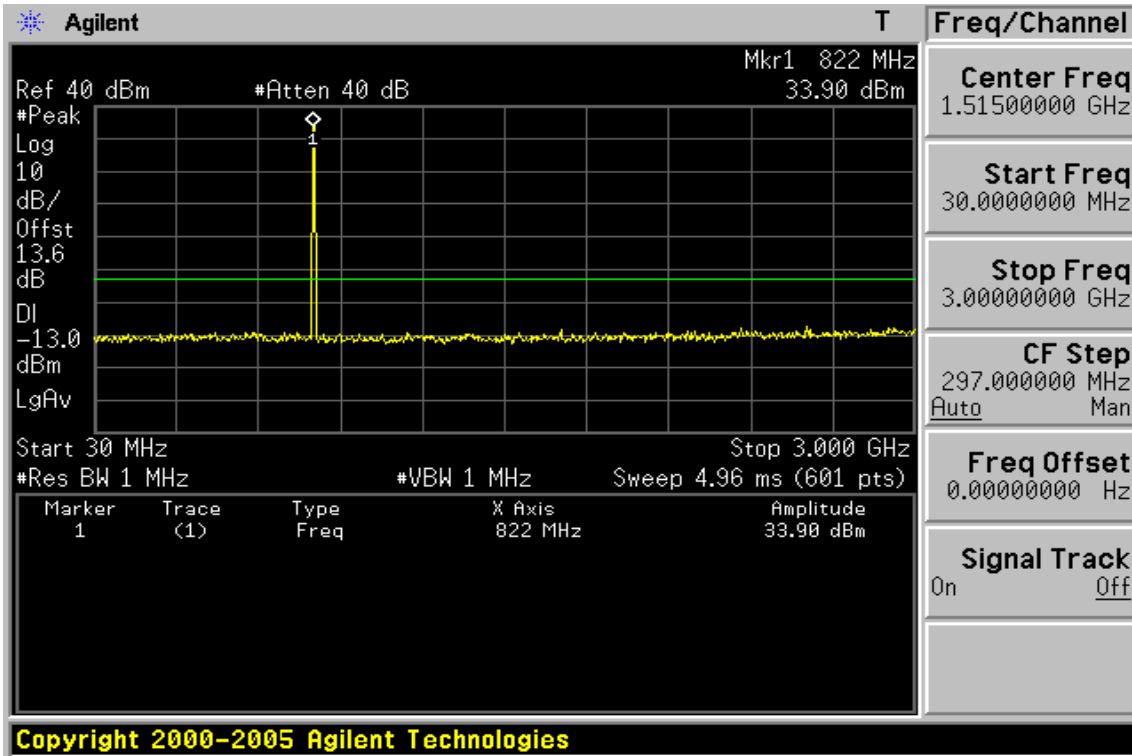
NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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



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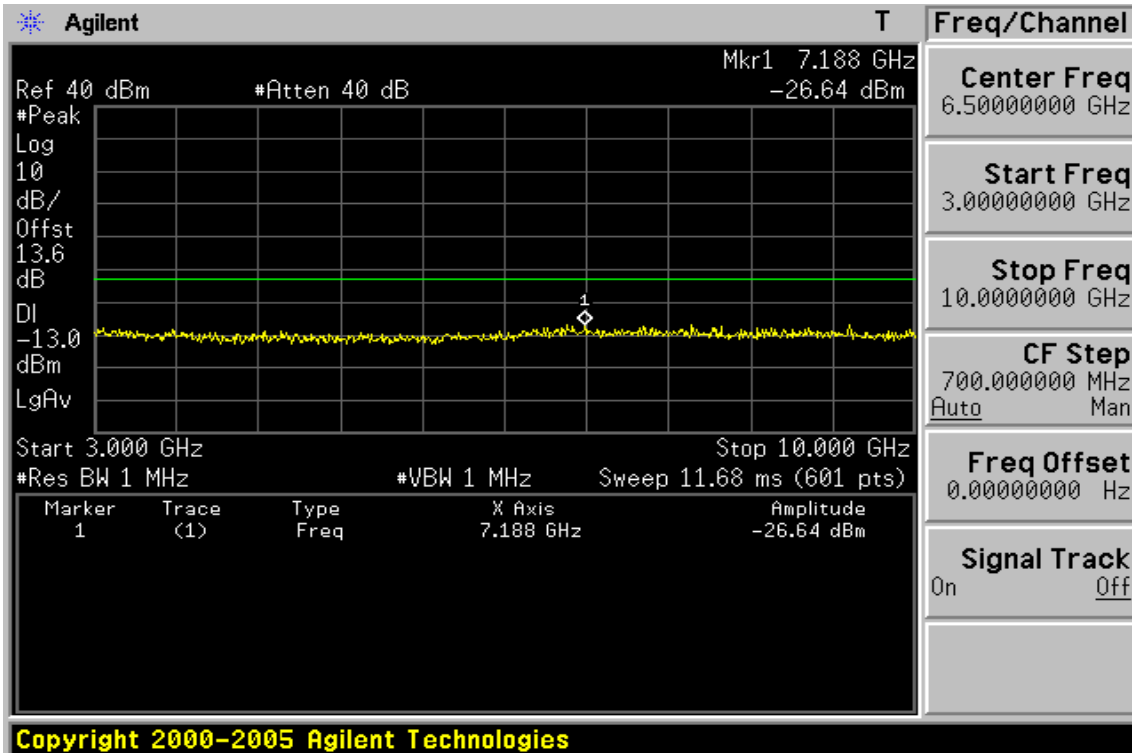
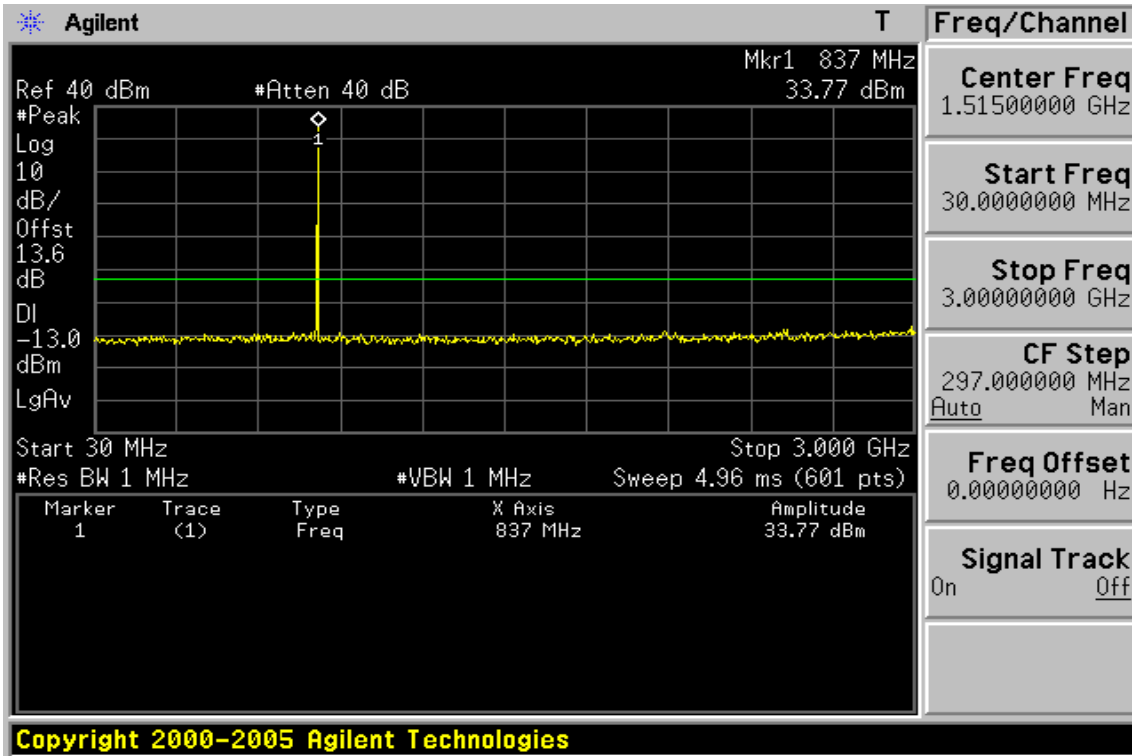
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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid



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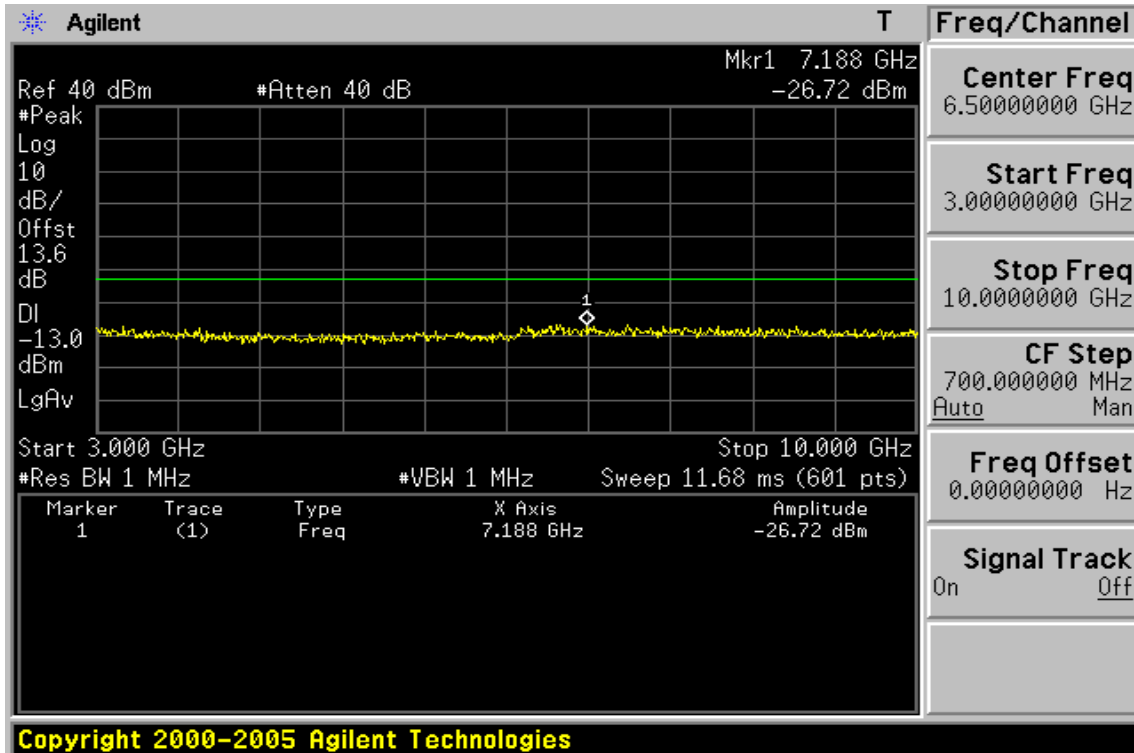
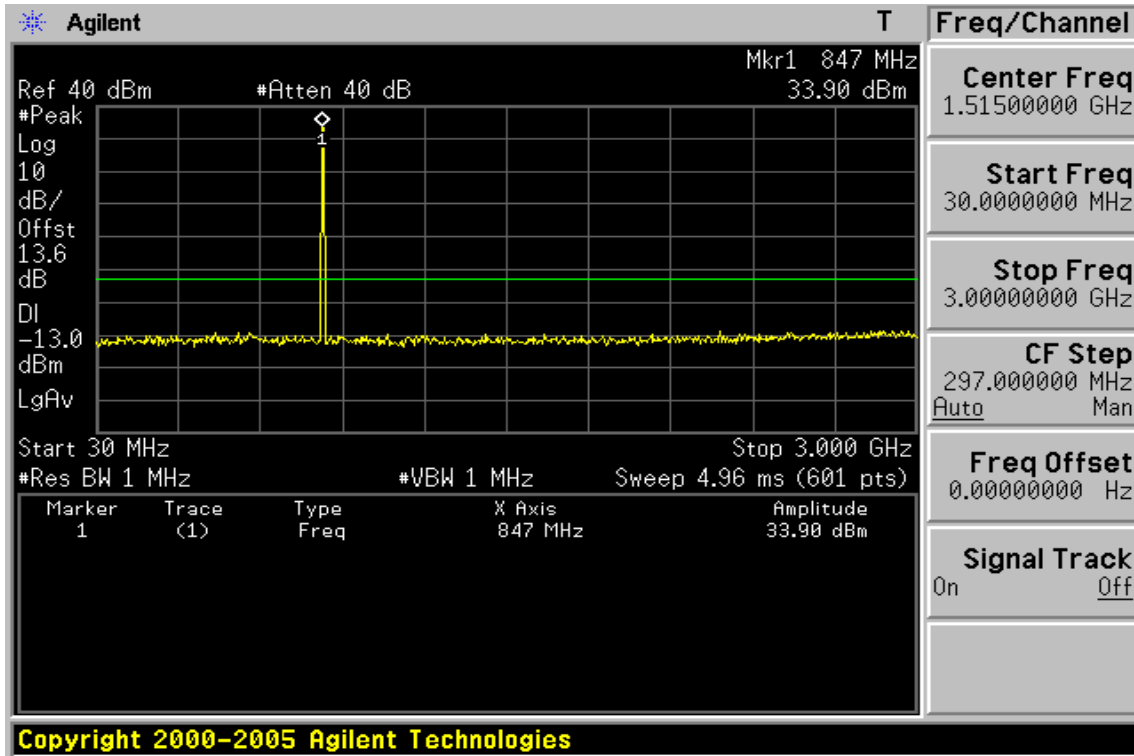
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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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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	---
7258.00	S	-26.01	-13.00	13.01
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	---
7188.00	S	-26.64	-13.00	13.64
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	---
7188.00	S	-26.72	-13.00	13.72
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

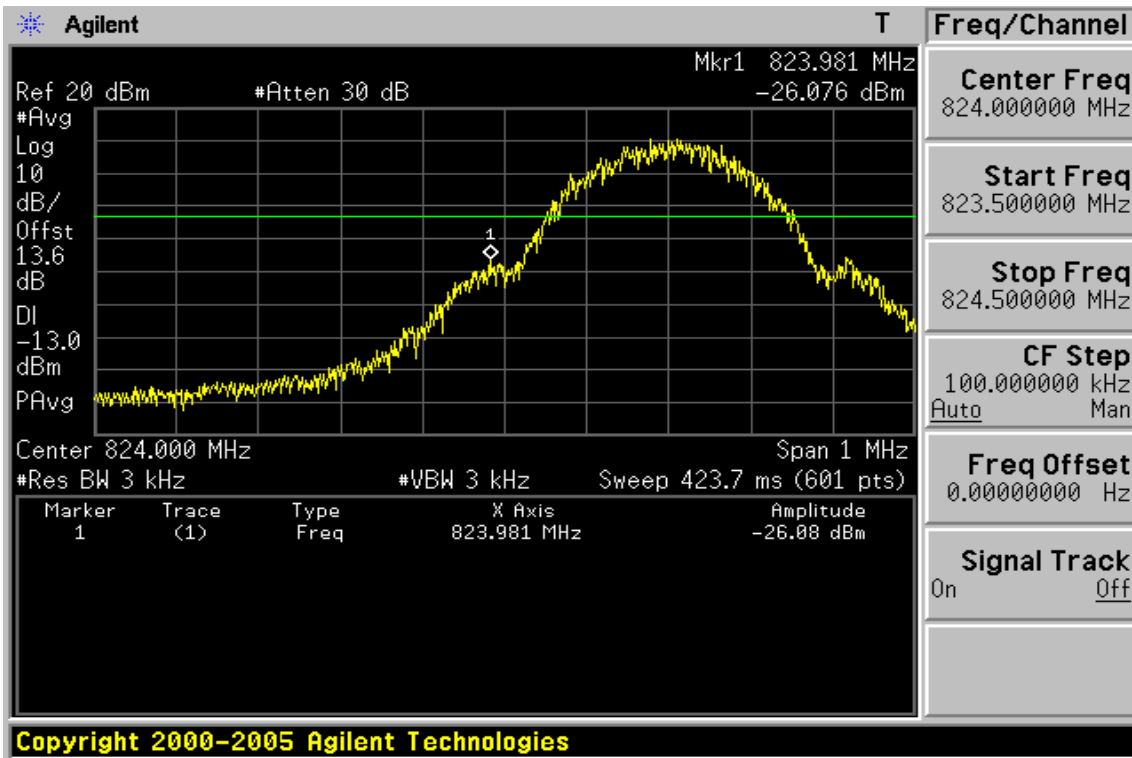
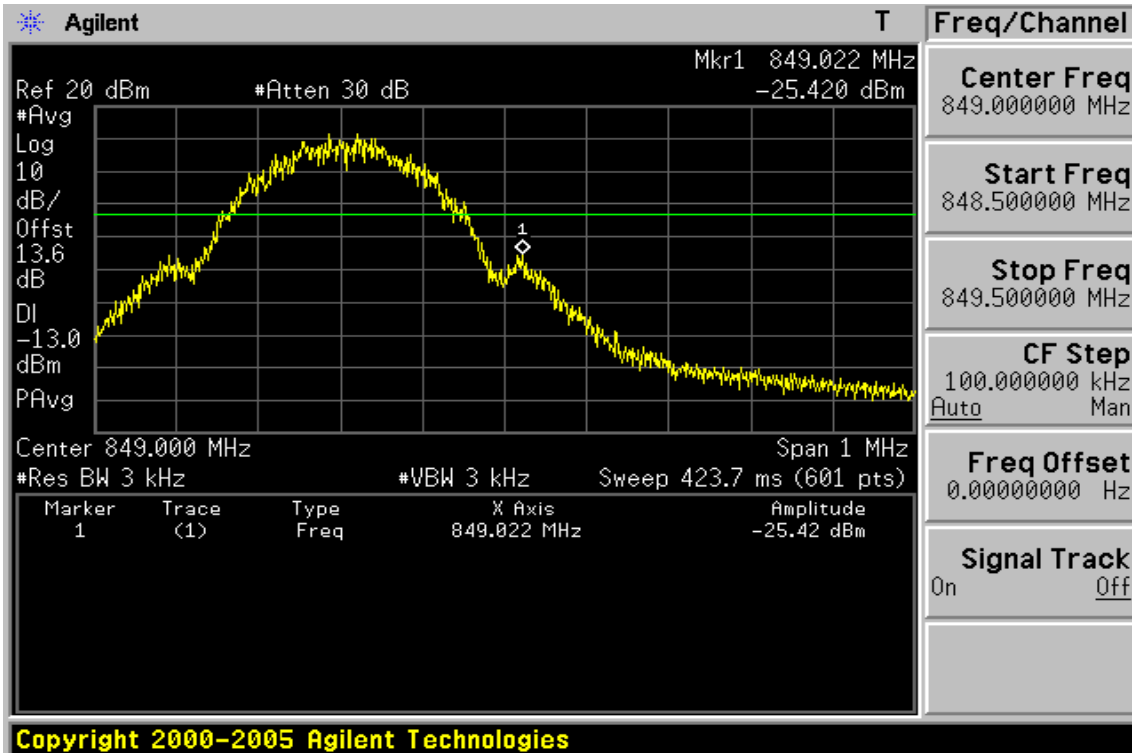


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



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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
823.981	-26.08	-13.00	13.08
849.022	-25.42	-13.00	12.42

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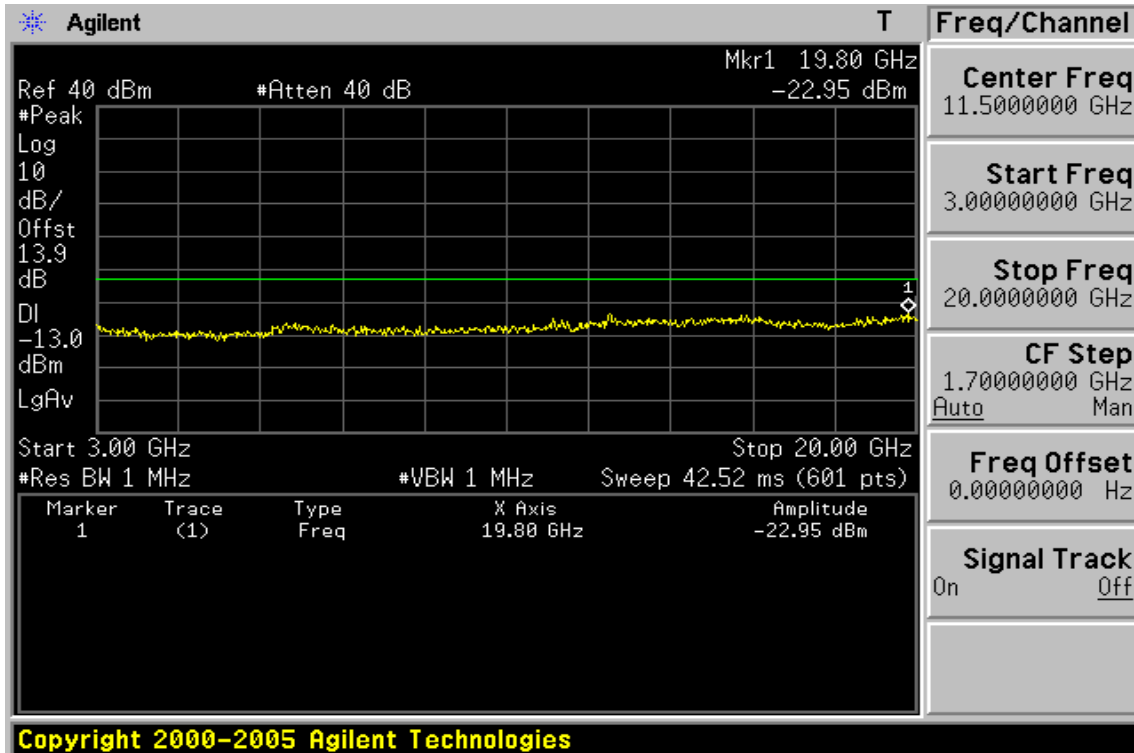
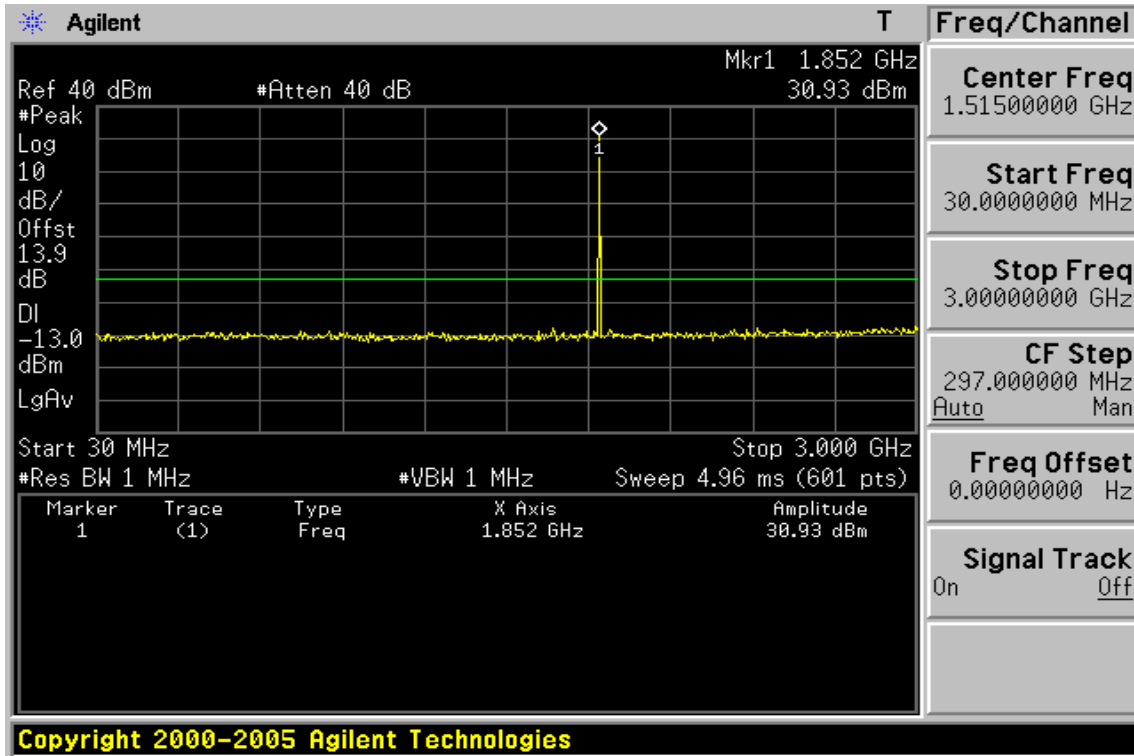
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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest



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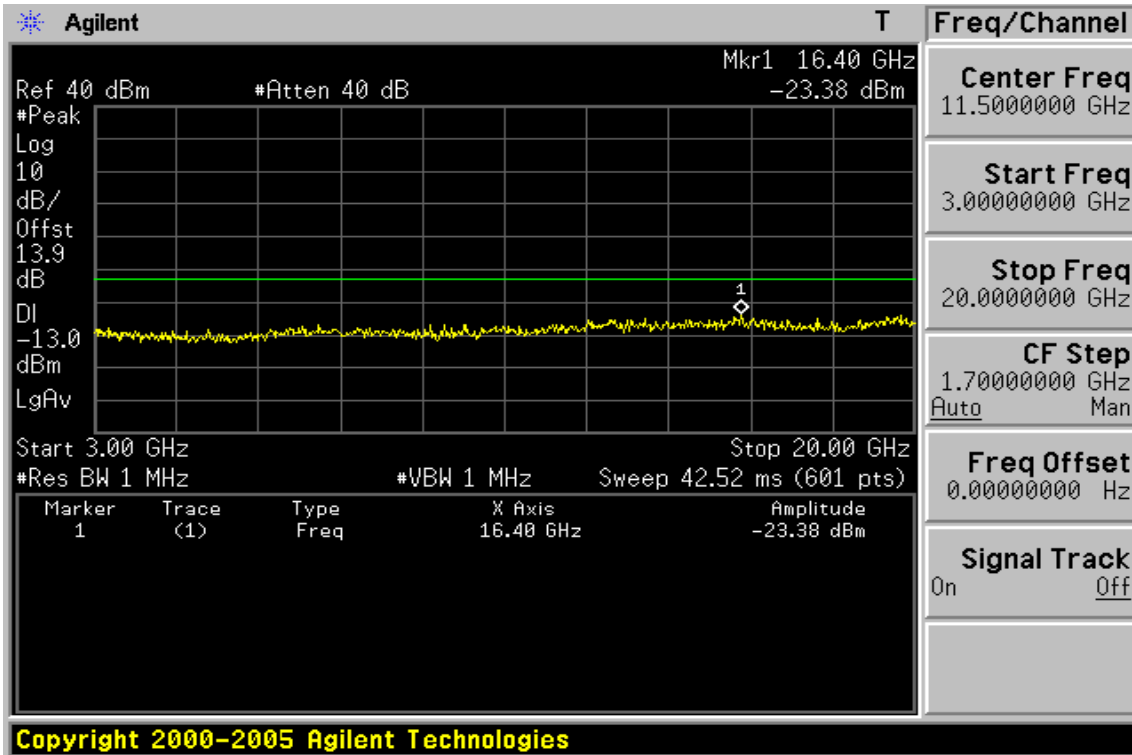
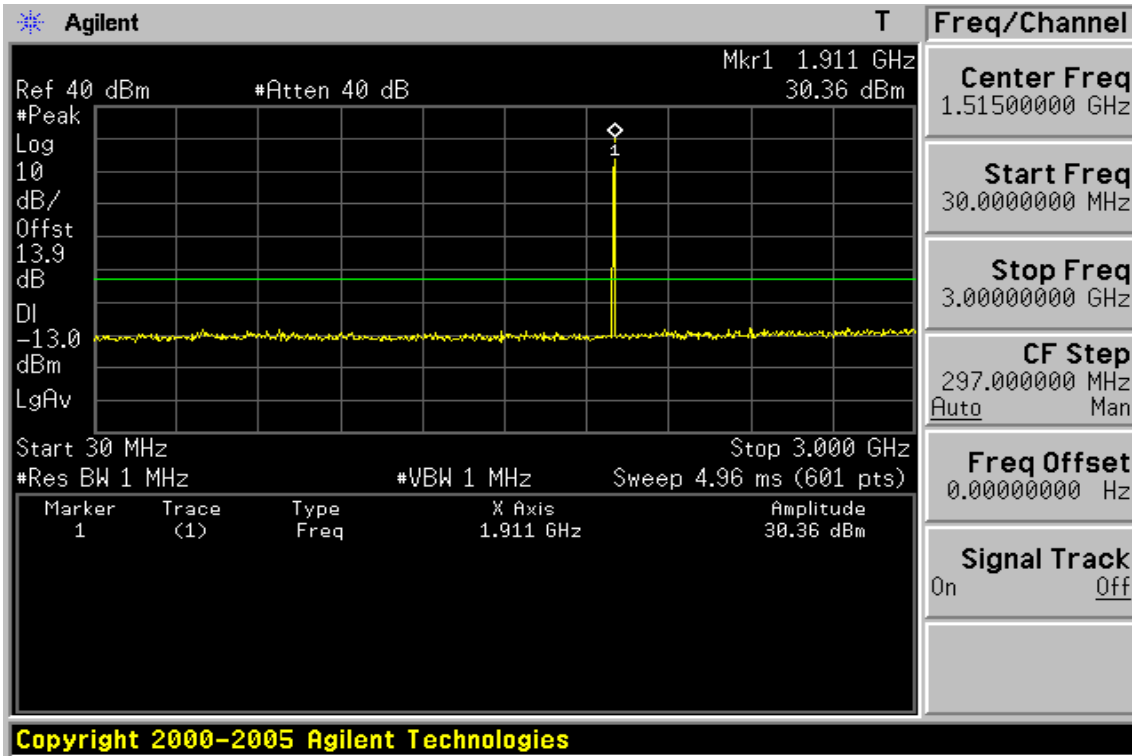
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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid



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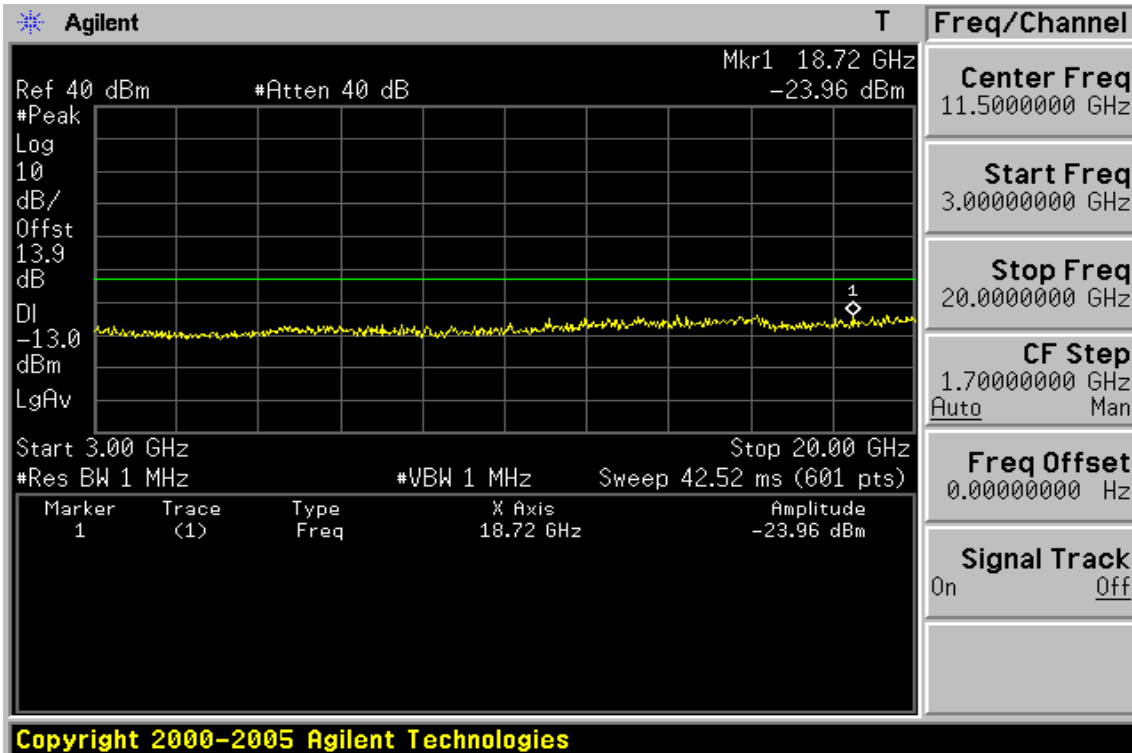
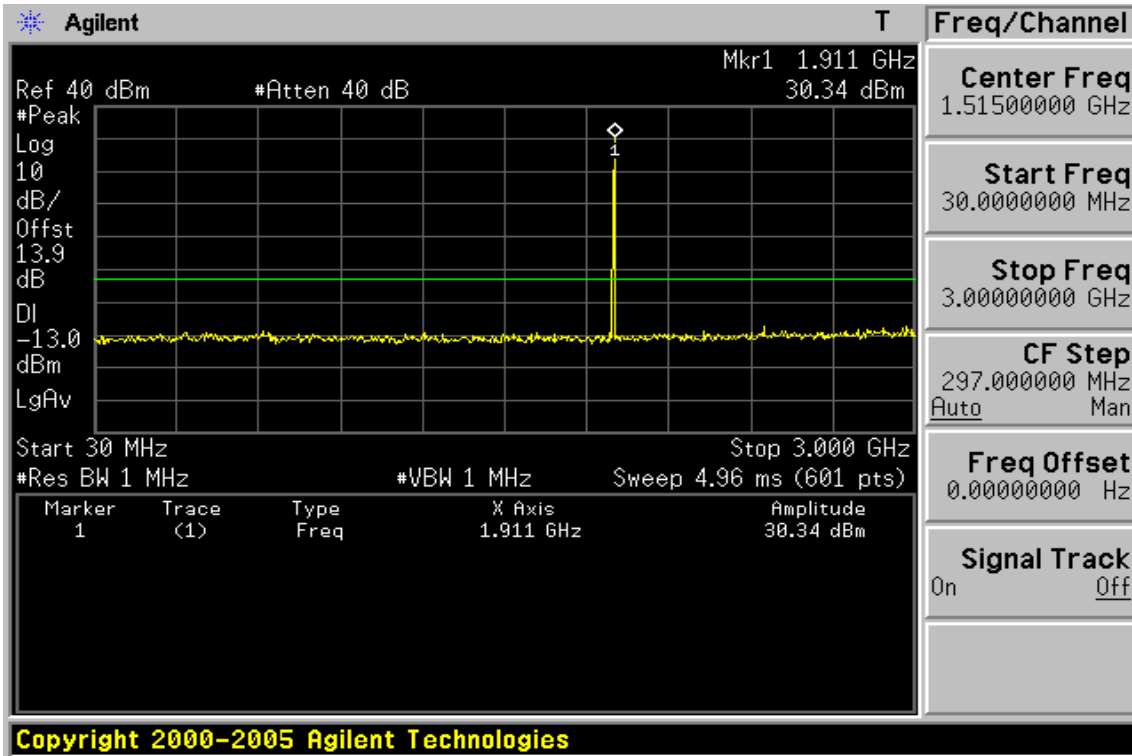
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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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Out of Band emission at antenna terminals – GSM 1900

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

<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	---
19800.00	S	-22.95	-13.00	9.95

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 “---” : 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	---
16400.00	S	-23.38	-13.00	10.38
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	---
18720.00	S	-23.96	-13.00	10.96
19098.00	H	---	-13.00	---

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

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

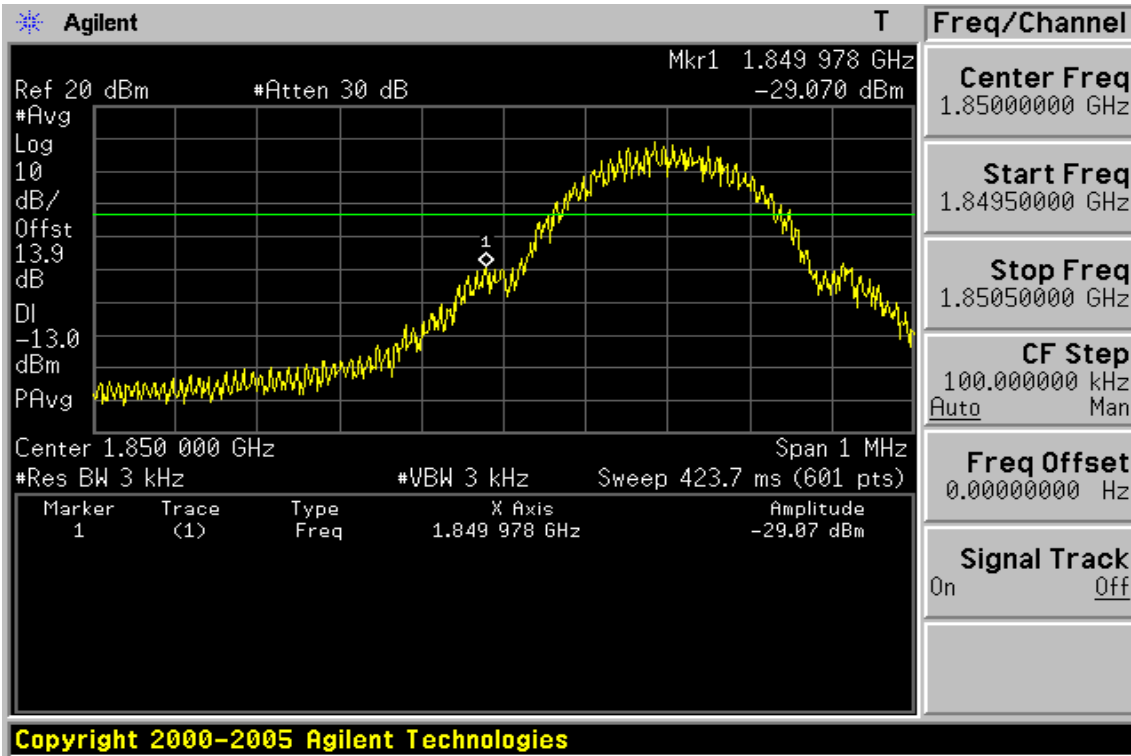
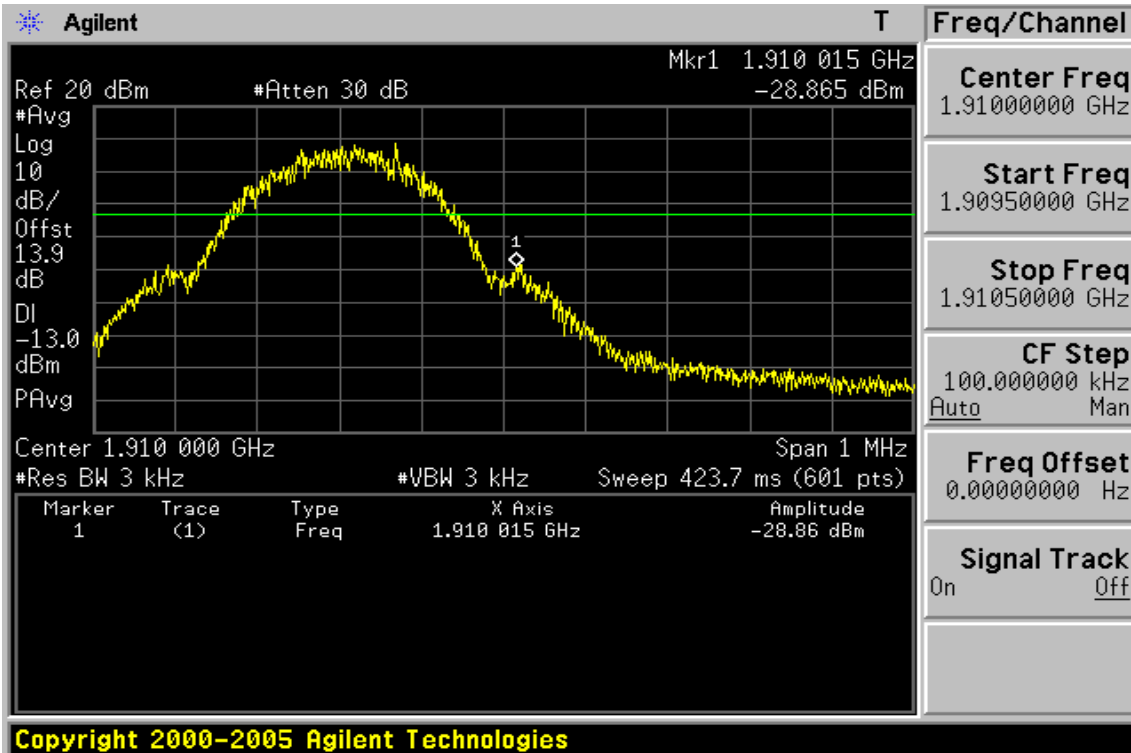


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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

Test Mode GSM 1900 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.978	-29.07	-13.00	16.07
1910.015	-28.86	-13.00	15.86

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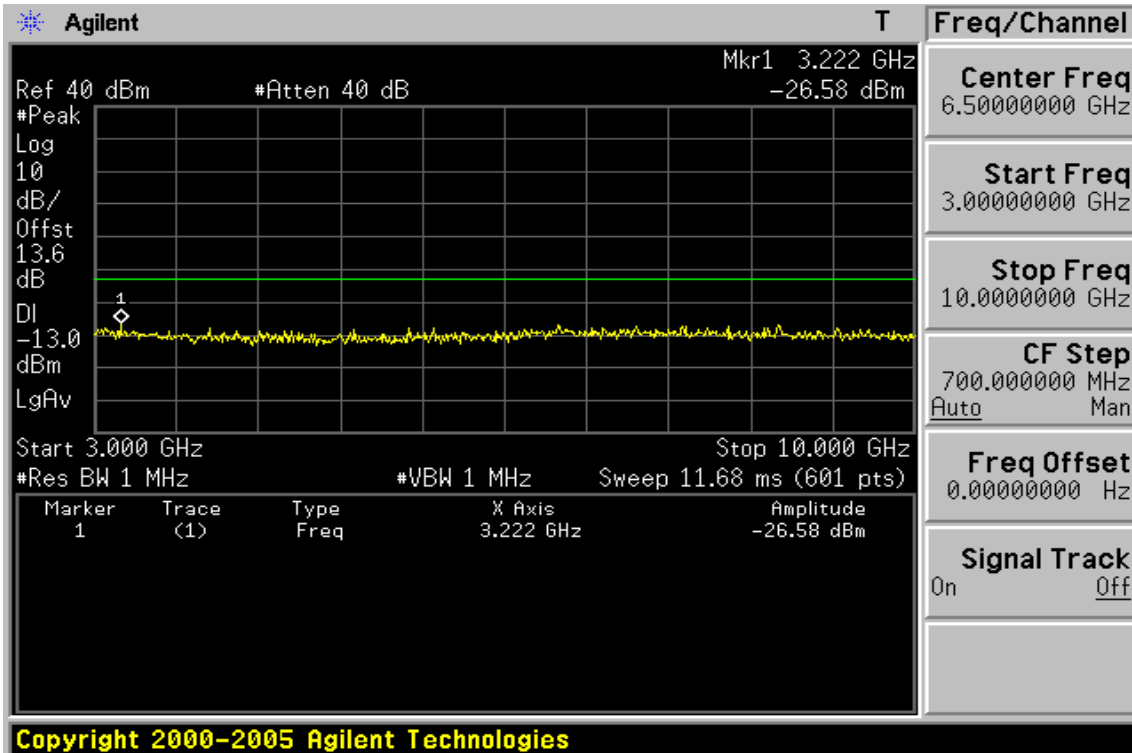
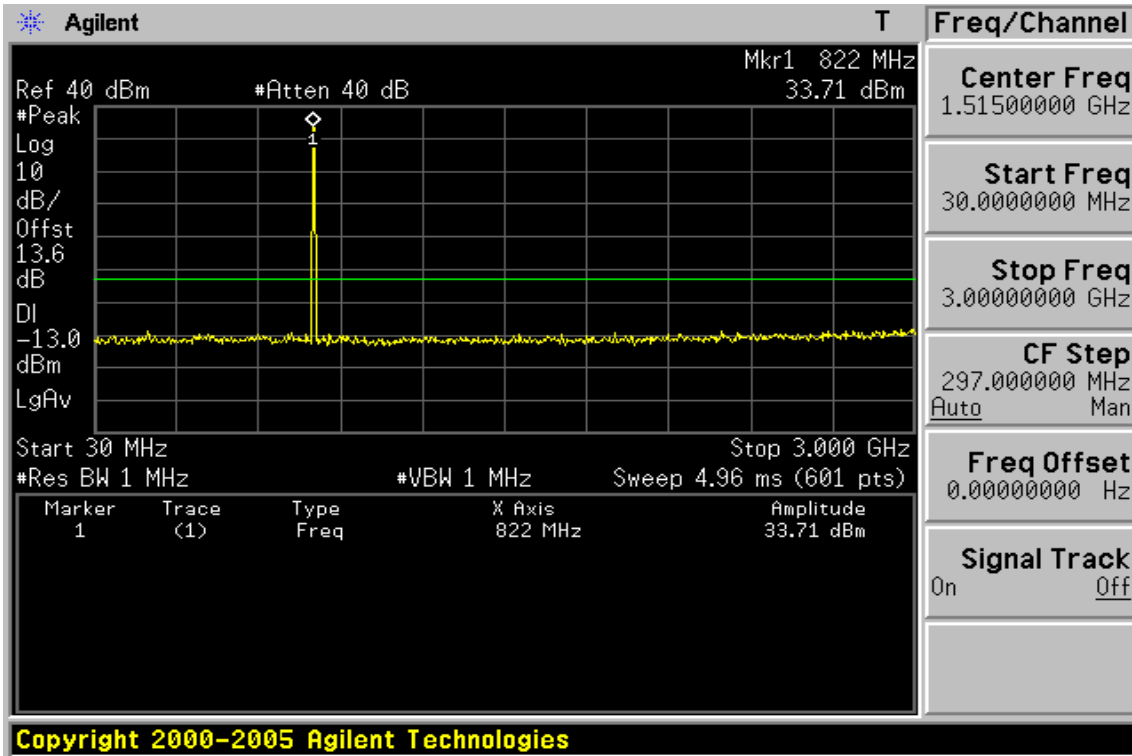
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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



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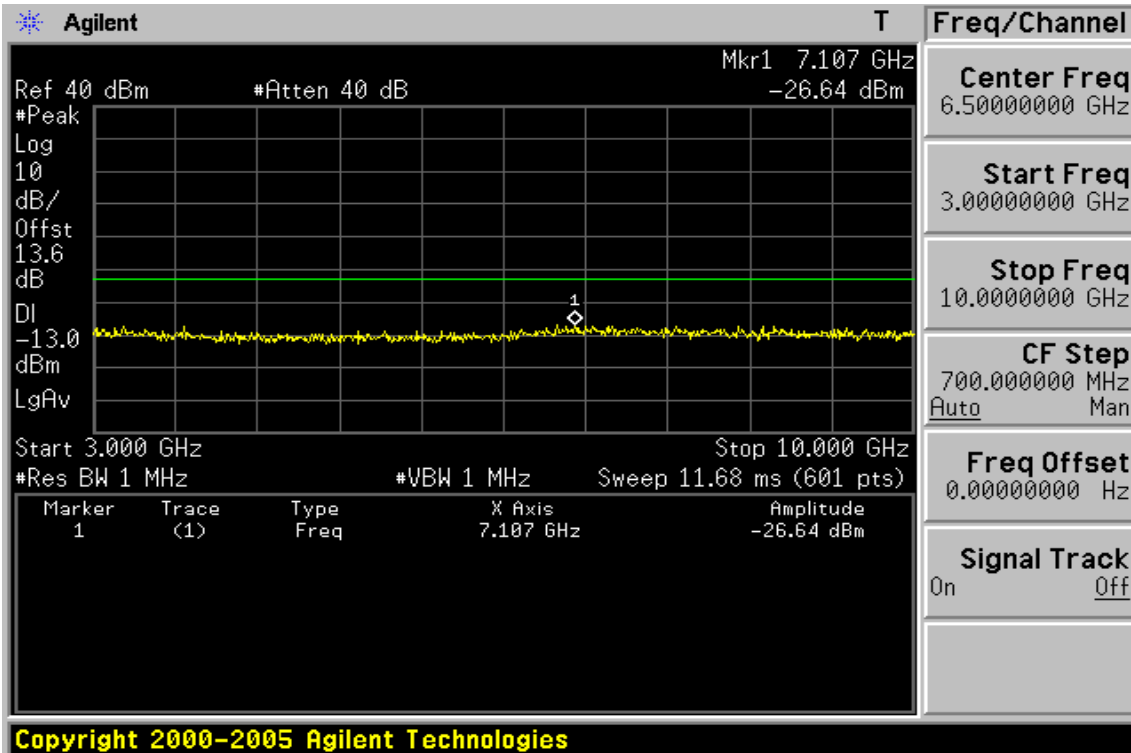
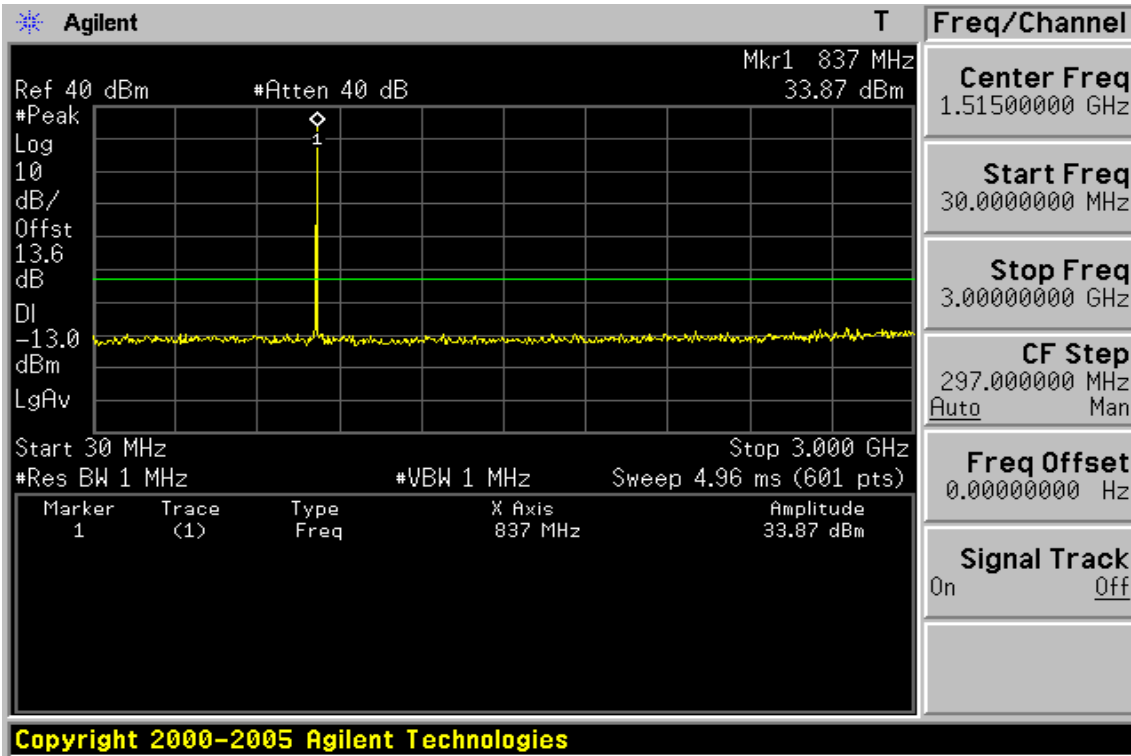
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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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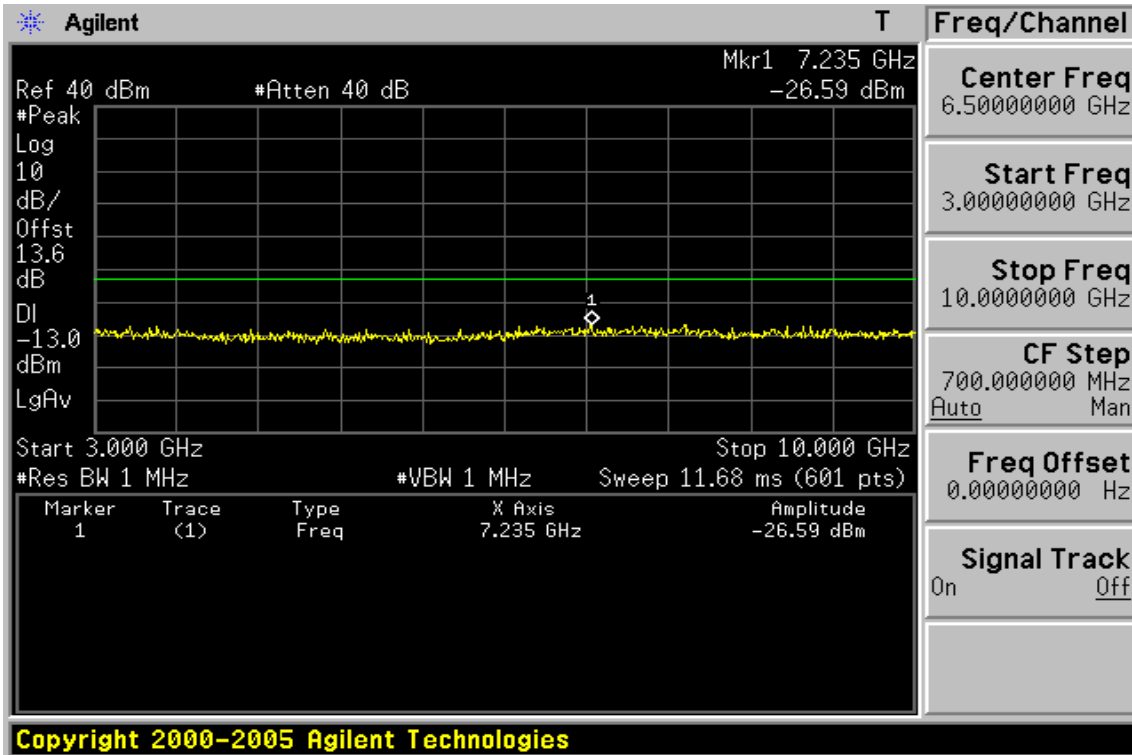
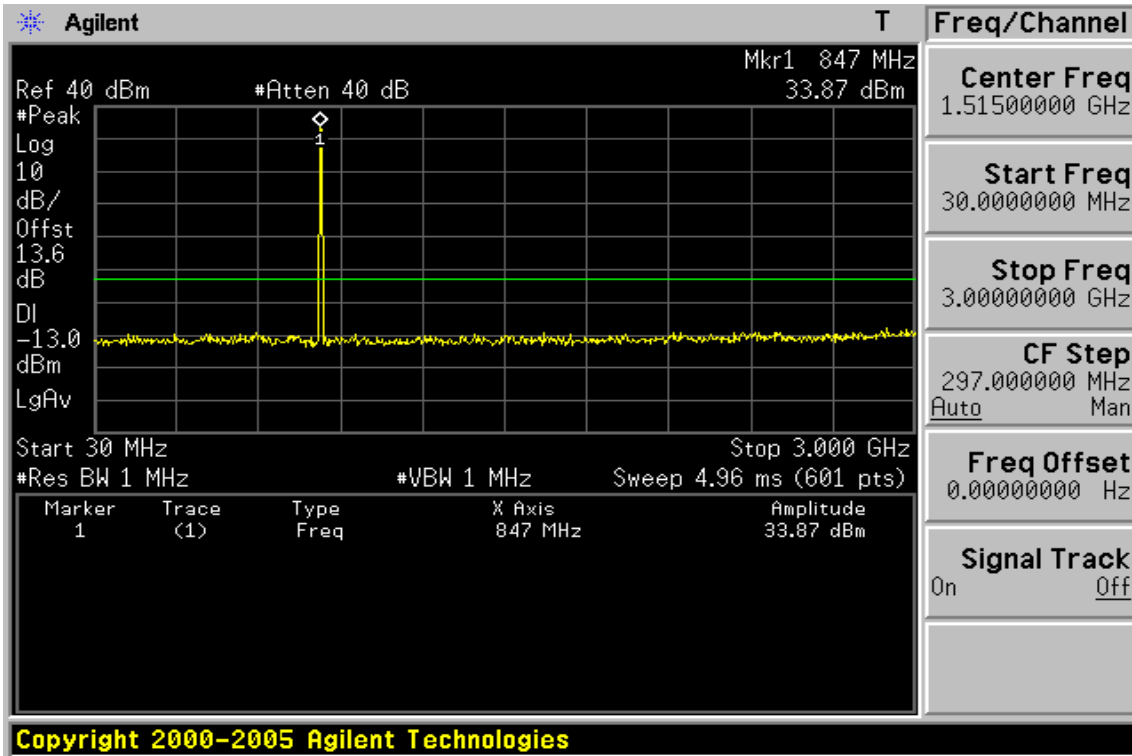
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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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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	---
3222.00	S	-26.58	-13.00	13.58
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	---

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	---
7107.00	S	-26.64	-13.00	13.64
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	---
7235.00	S	-26.59	-13.00	13.59
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 9-14: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

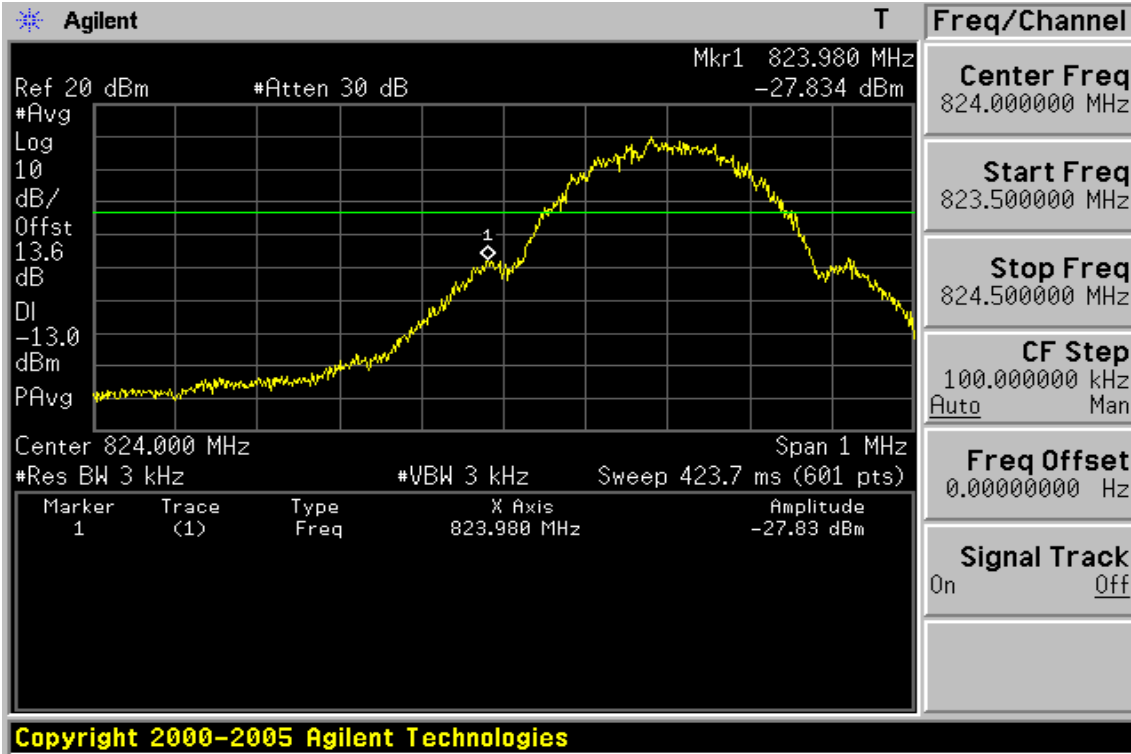
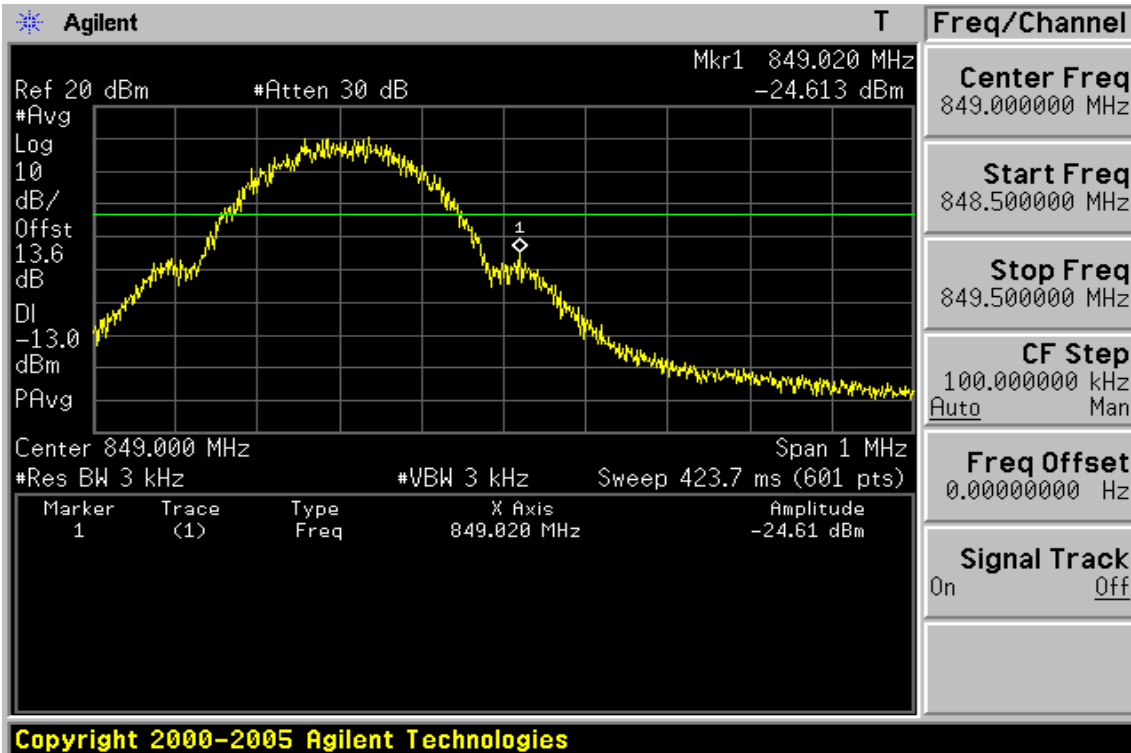


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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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
823.980	-27.83	-13.00	14.83
849.020	-24.61	-13.00	11.61

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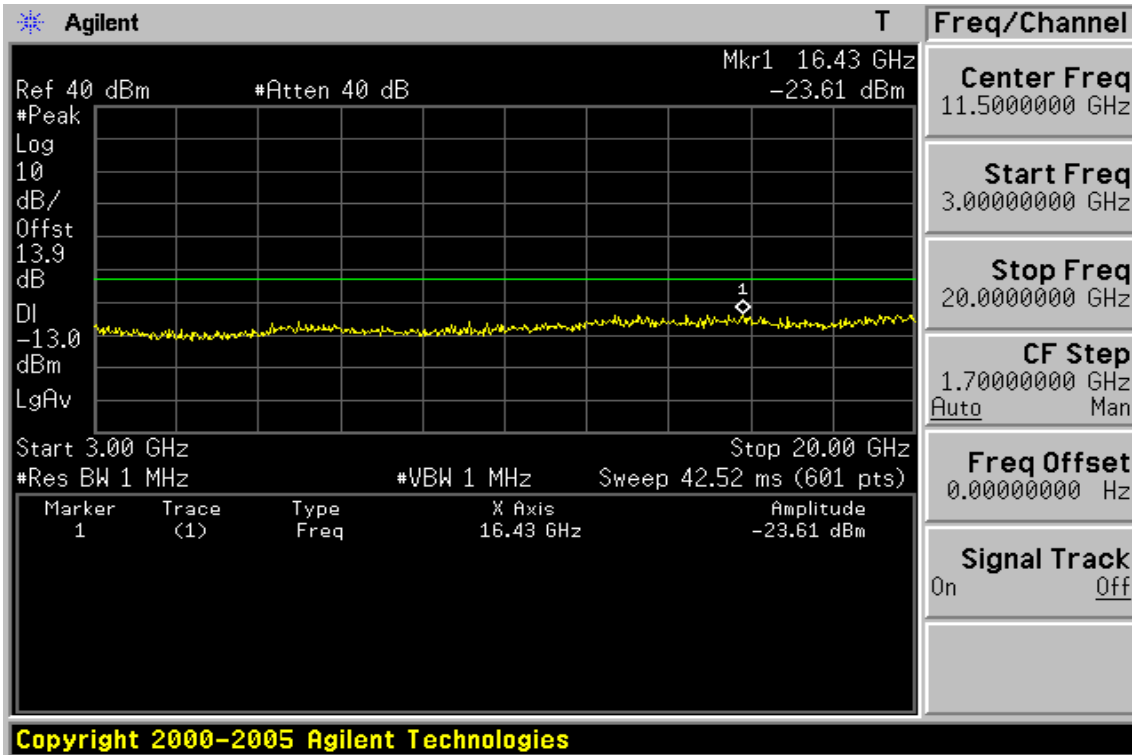
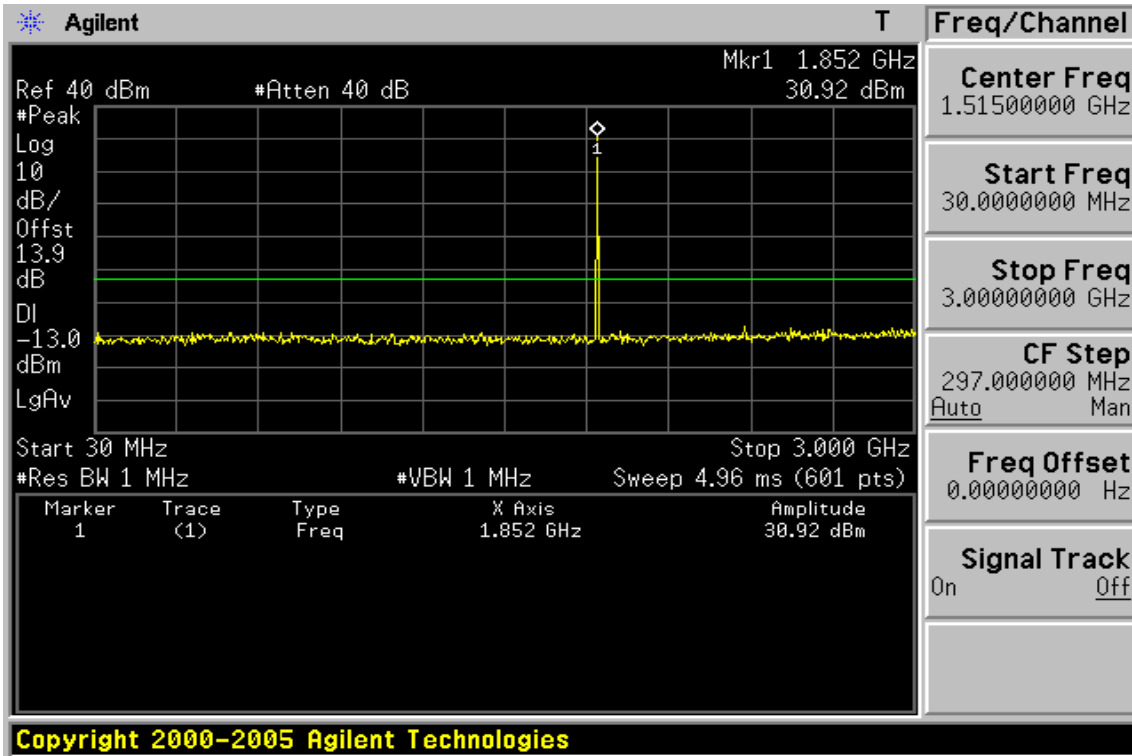
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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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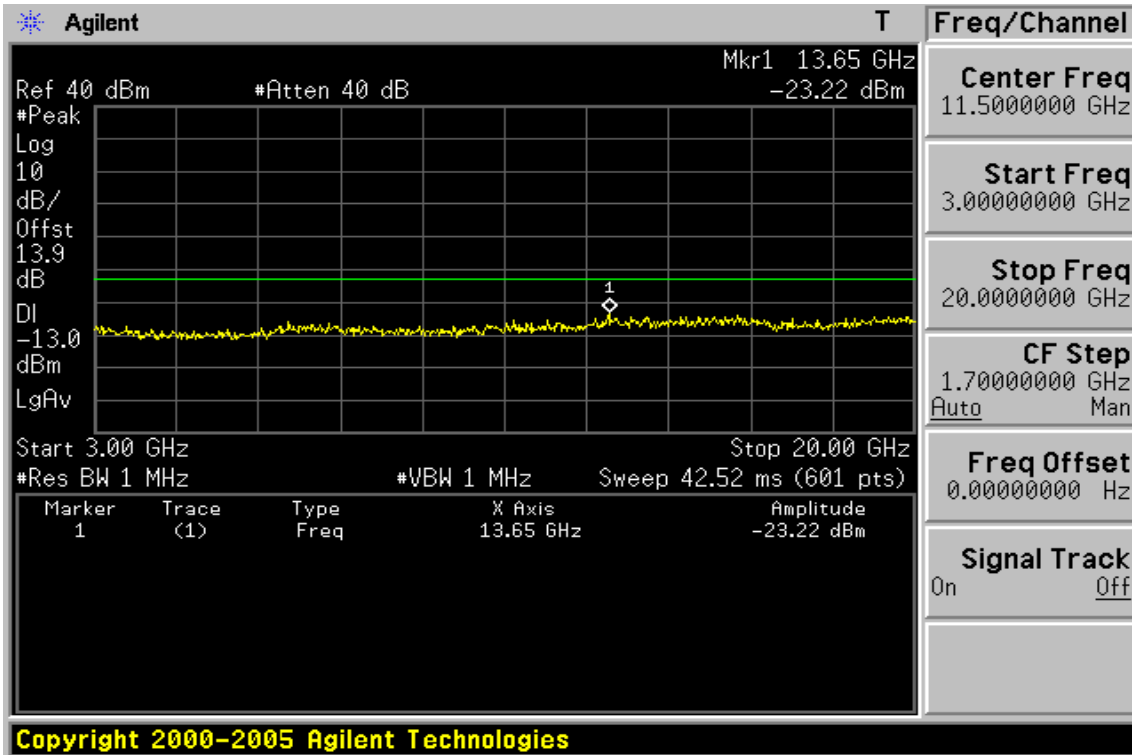
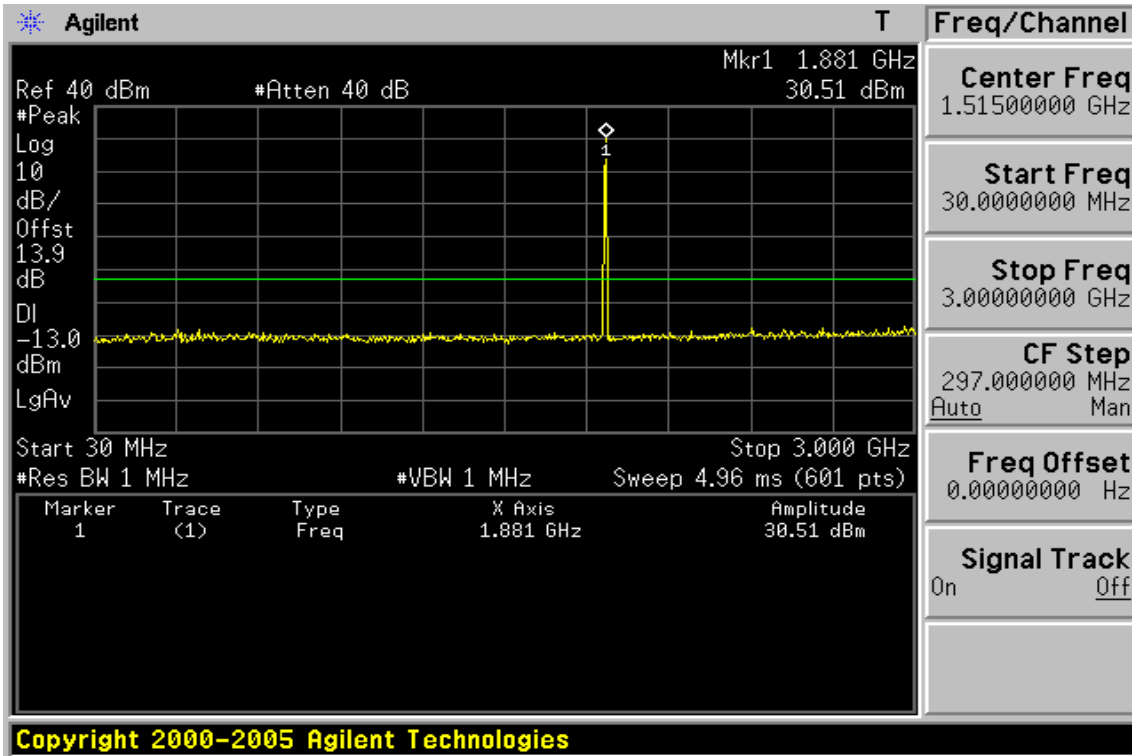
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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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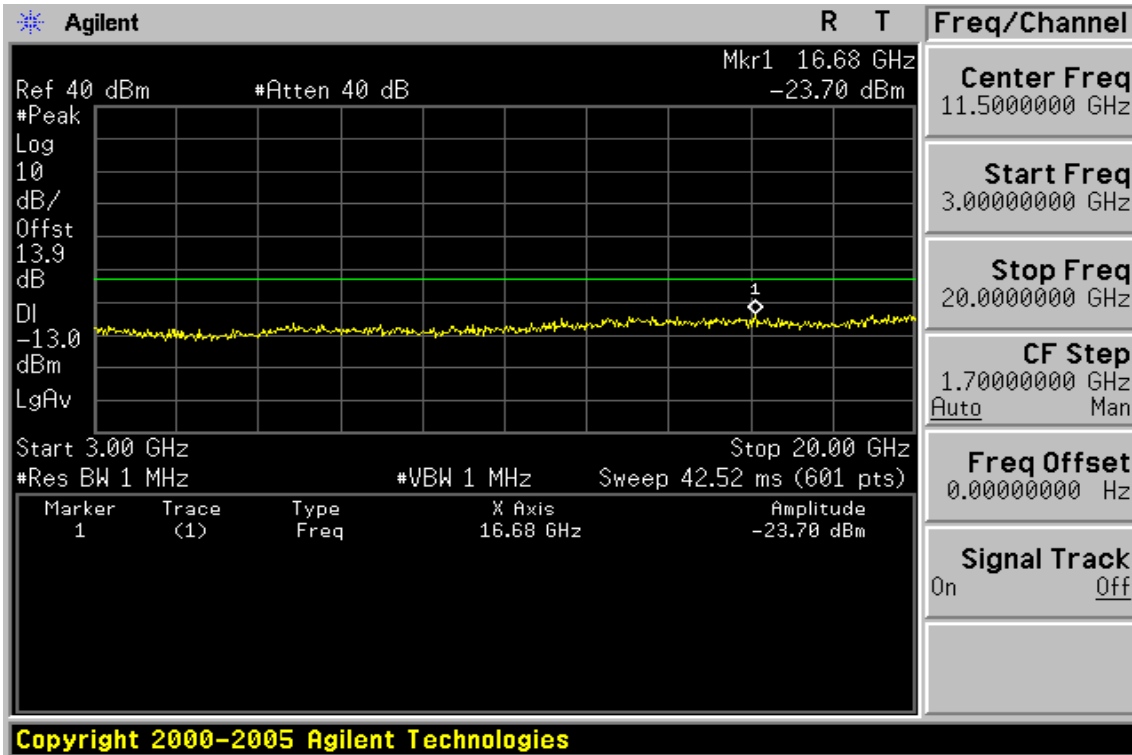
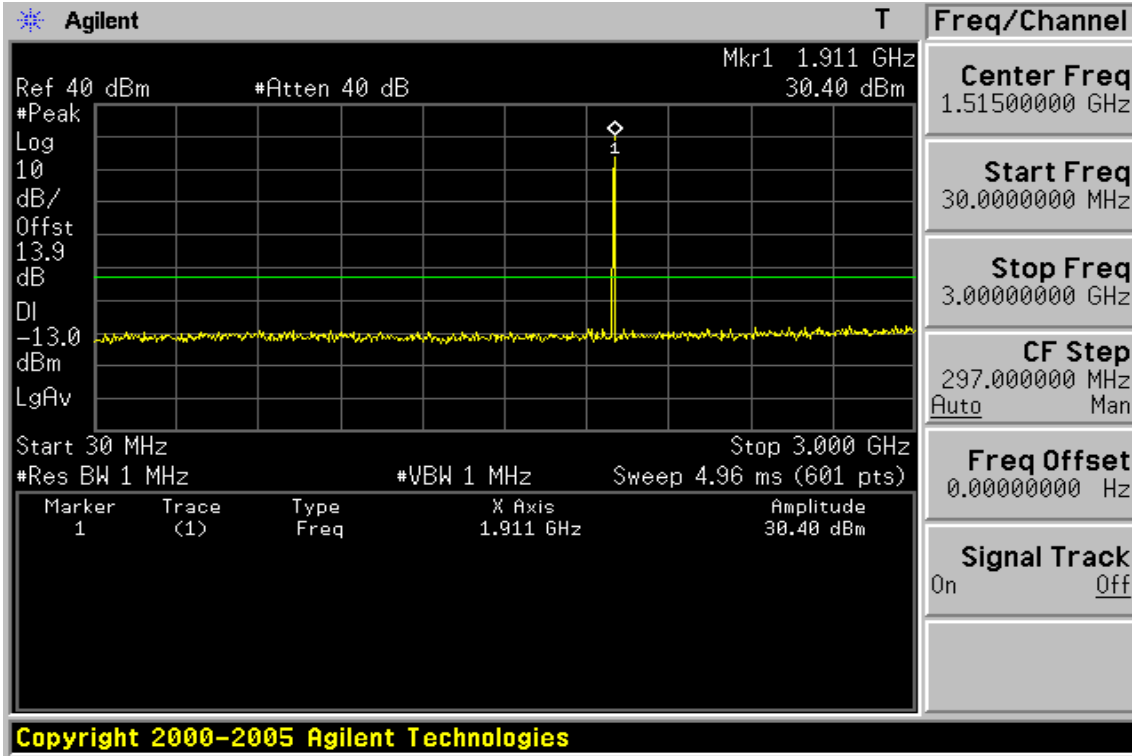
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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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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	-23.61	-13.00	10.61
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	---
13650.00	S	-23.22	-13.00	10.22
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	---
16680.00	S	-23.7	-13.00	10.70
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

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

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

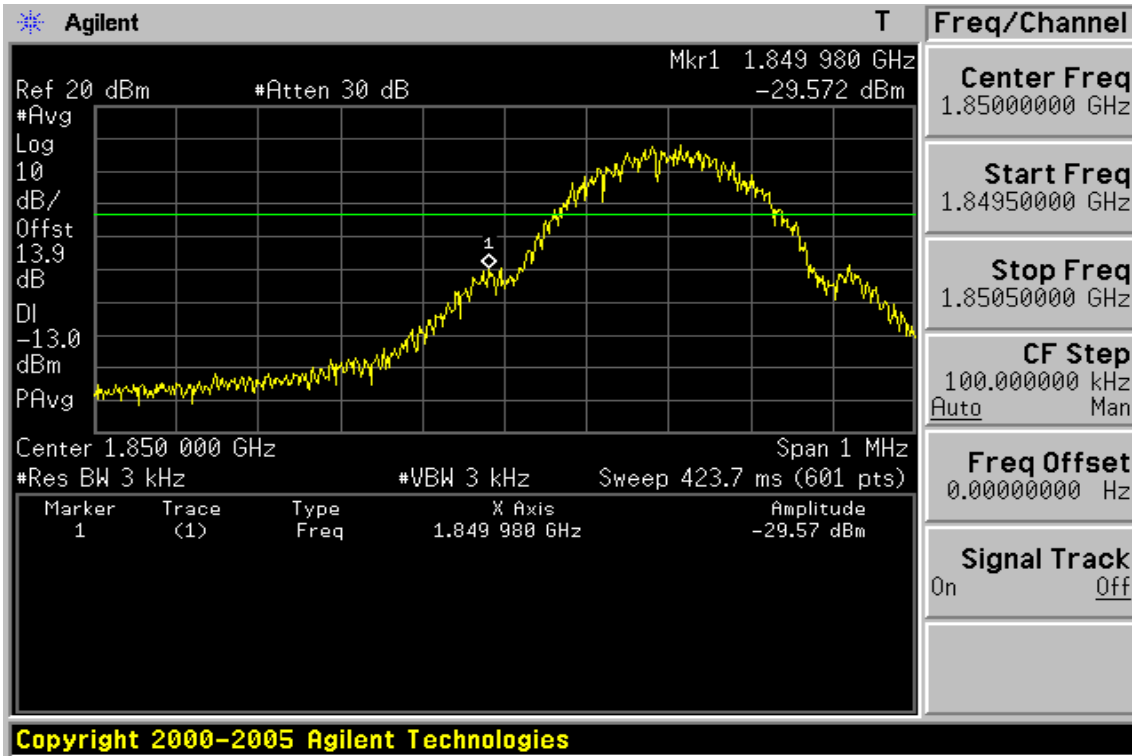
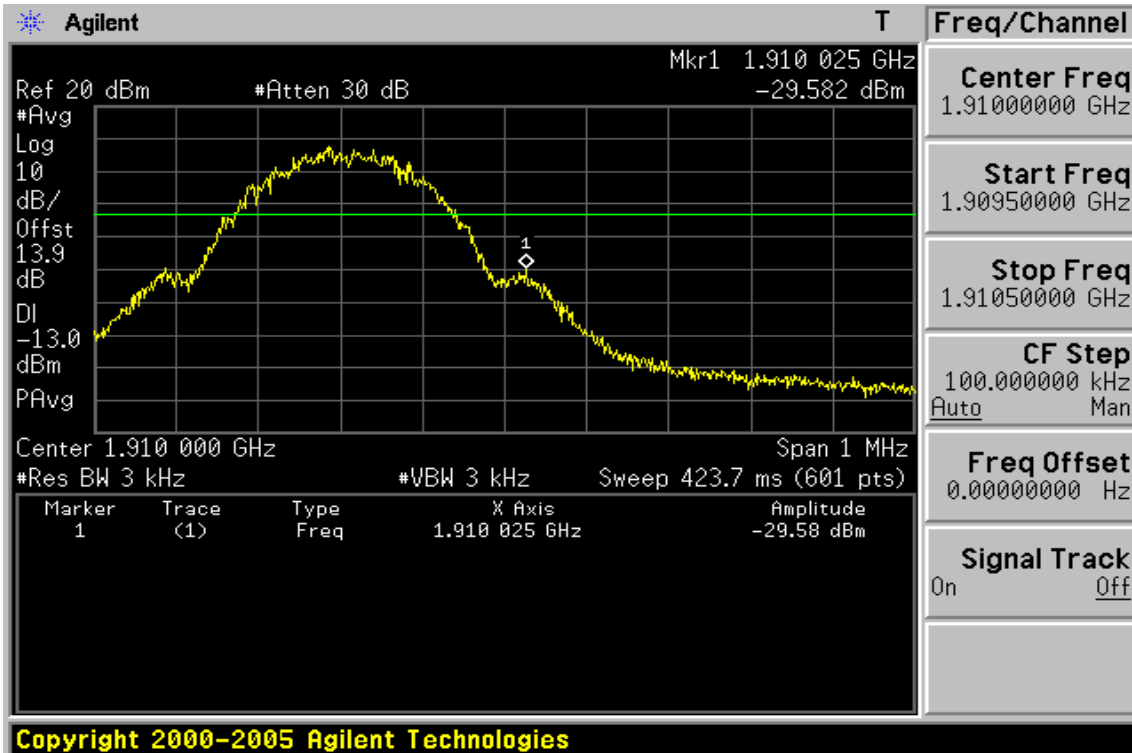


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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

Test Mode GPRS 1900 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.980	-29.57	-13.00	16.57
1910.025	-29.58	-13.00	16.58

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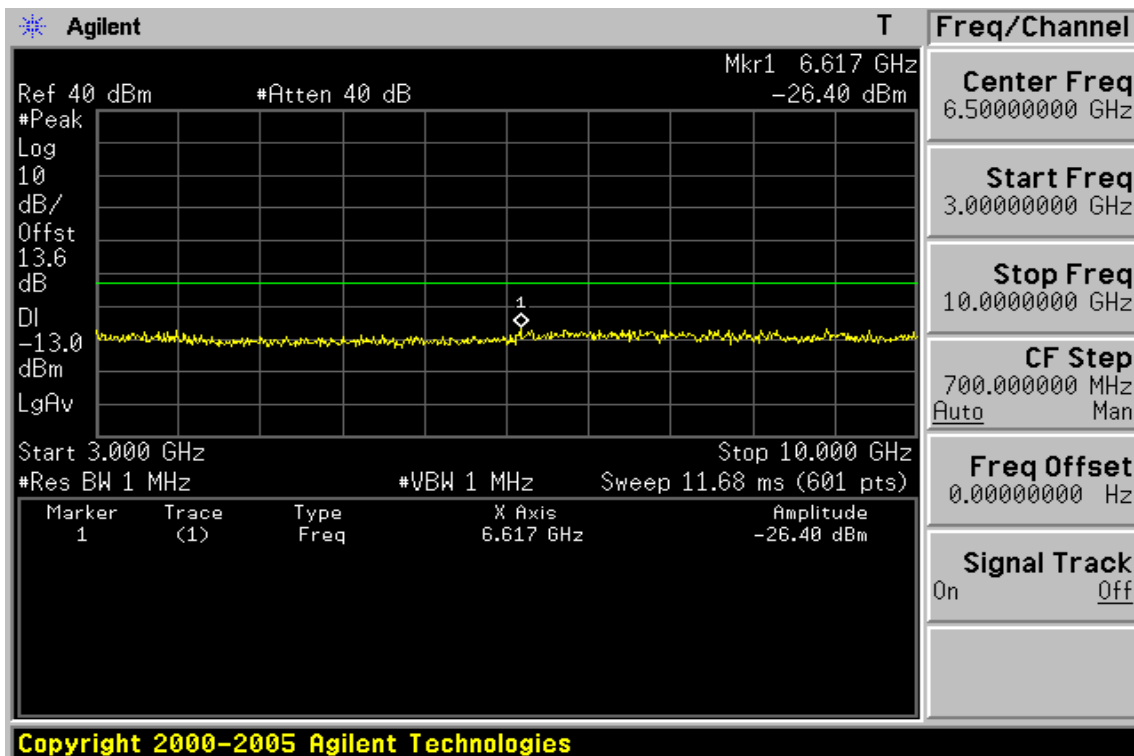
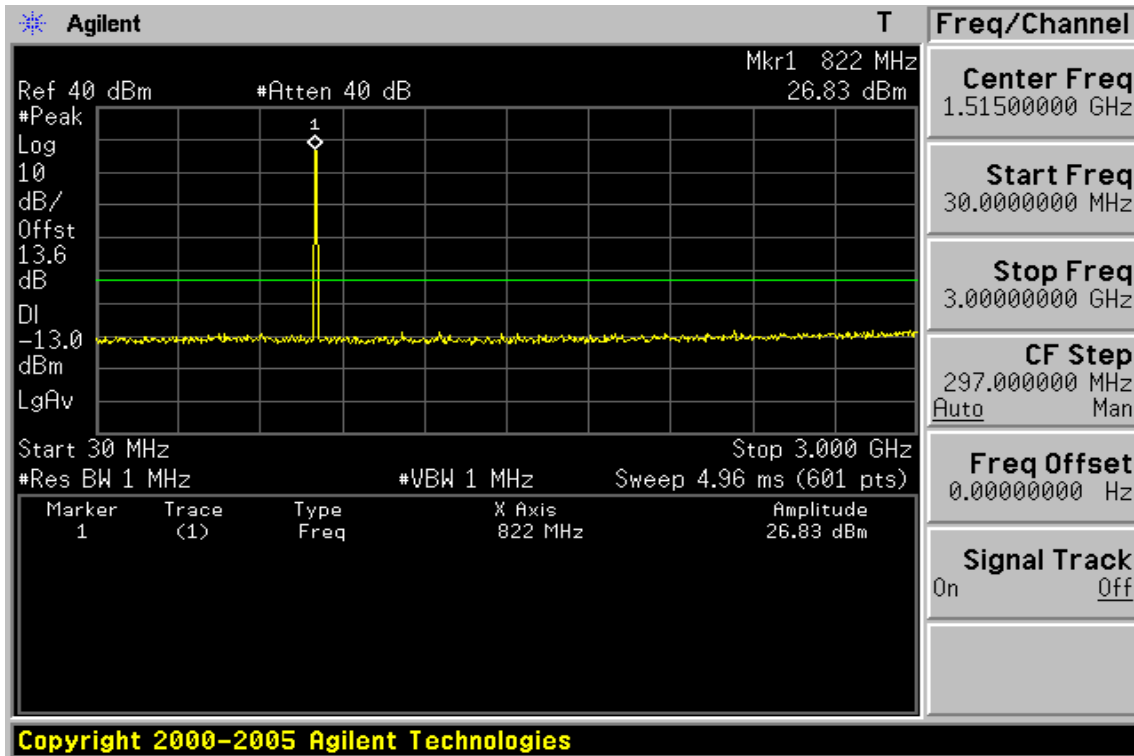
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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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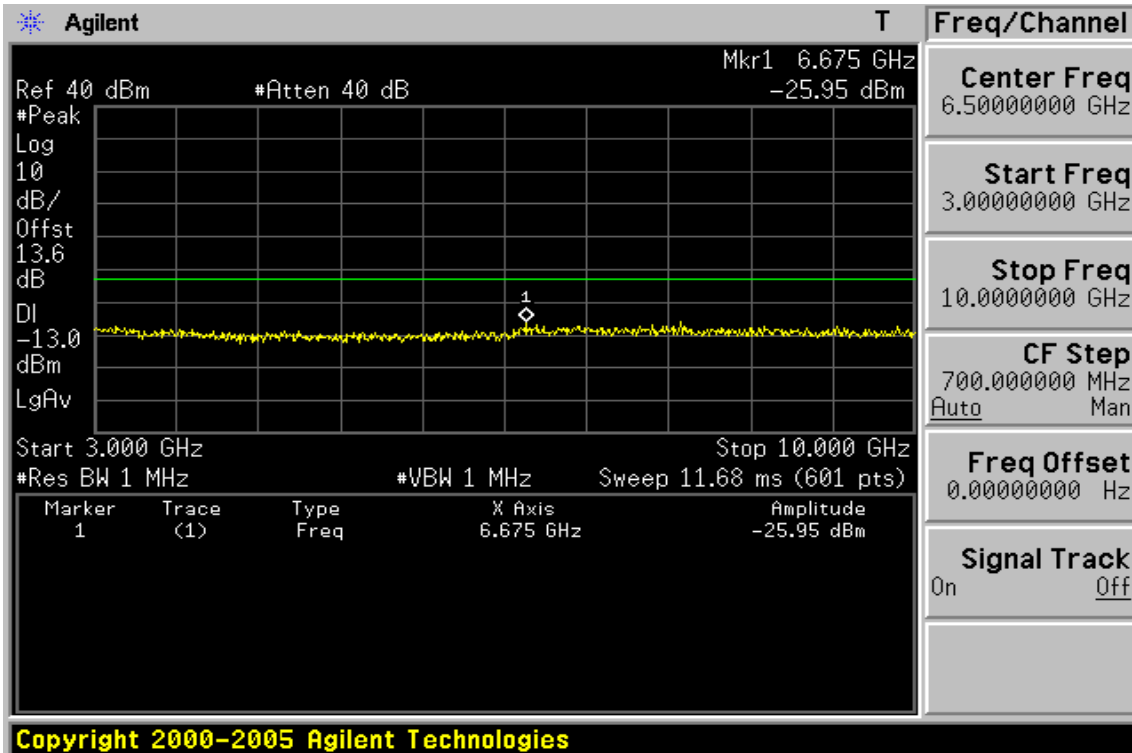
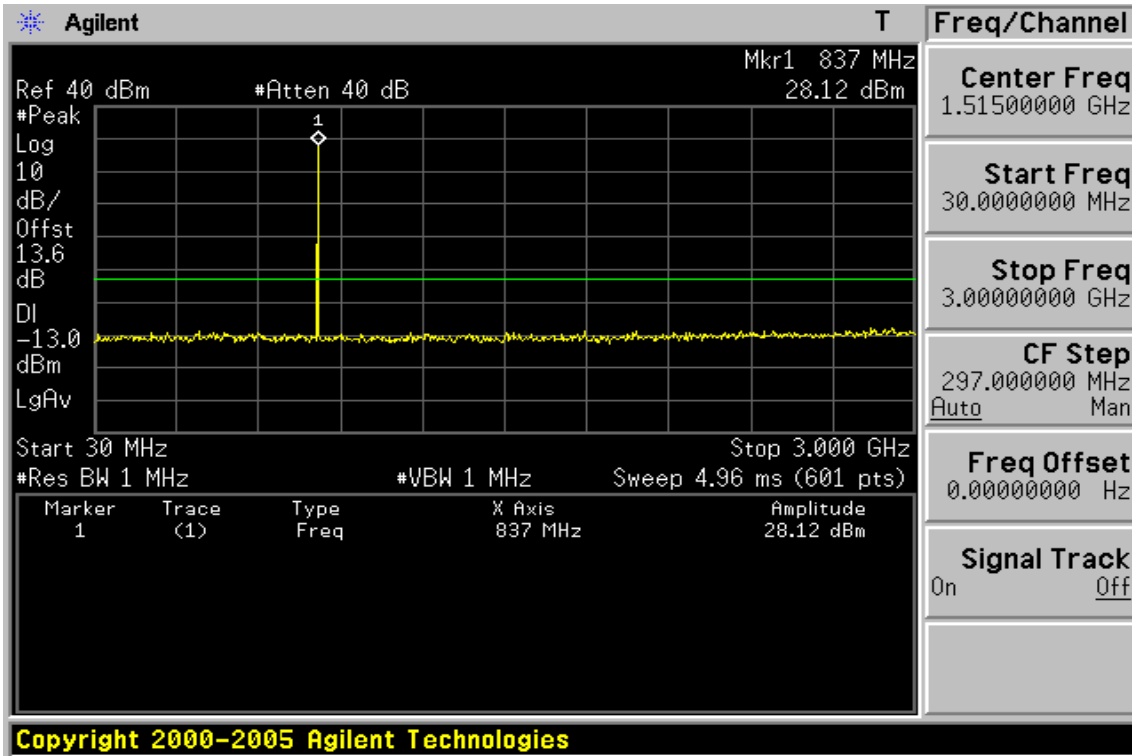
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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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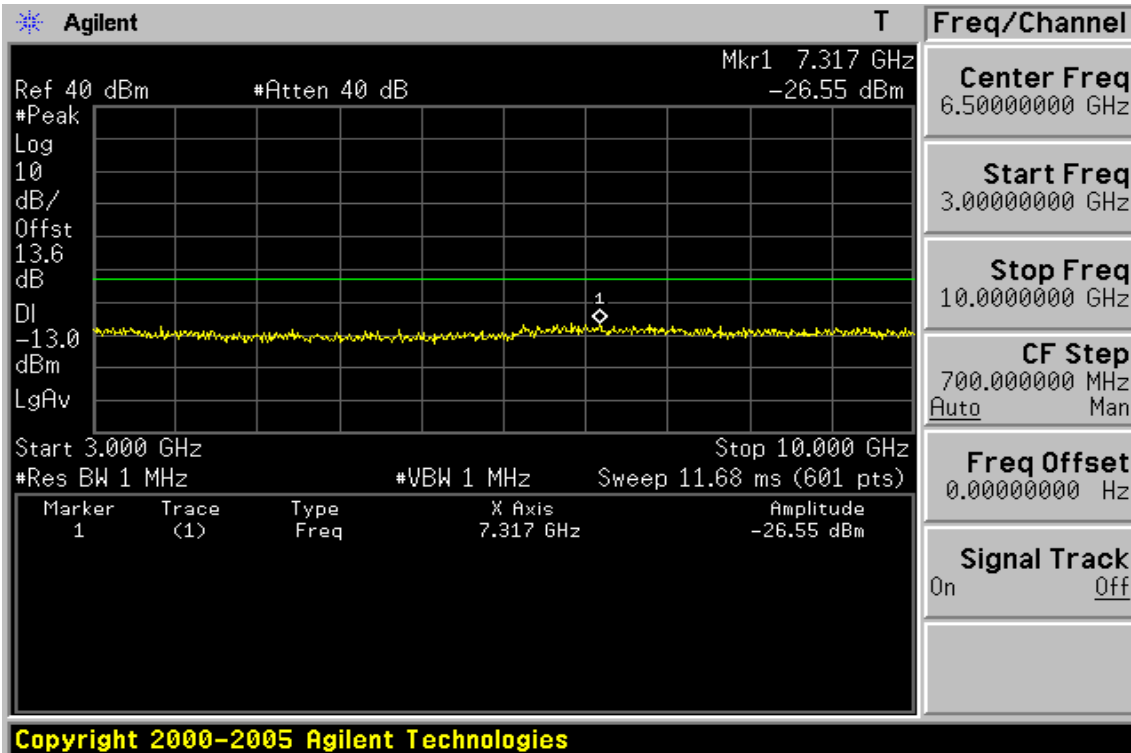
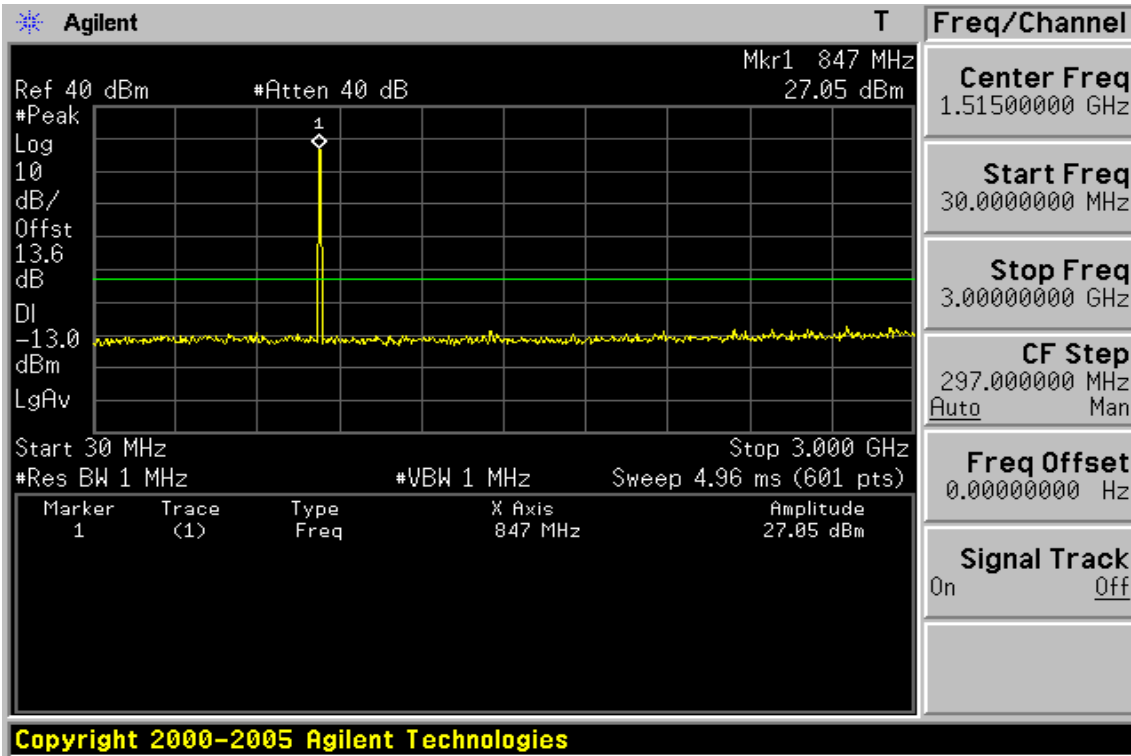
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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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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	---
6617.00	S	-26.4	-13.00	13.40
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	---
6675.00	S	-25.95	-13.00	12.95
6692.80	H	---	-13.00	---
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

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

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Fundamental Frequency :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	---
7317.00	S	-26.55	-13.00	13.55
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

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

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

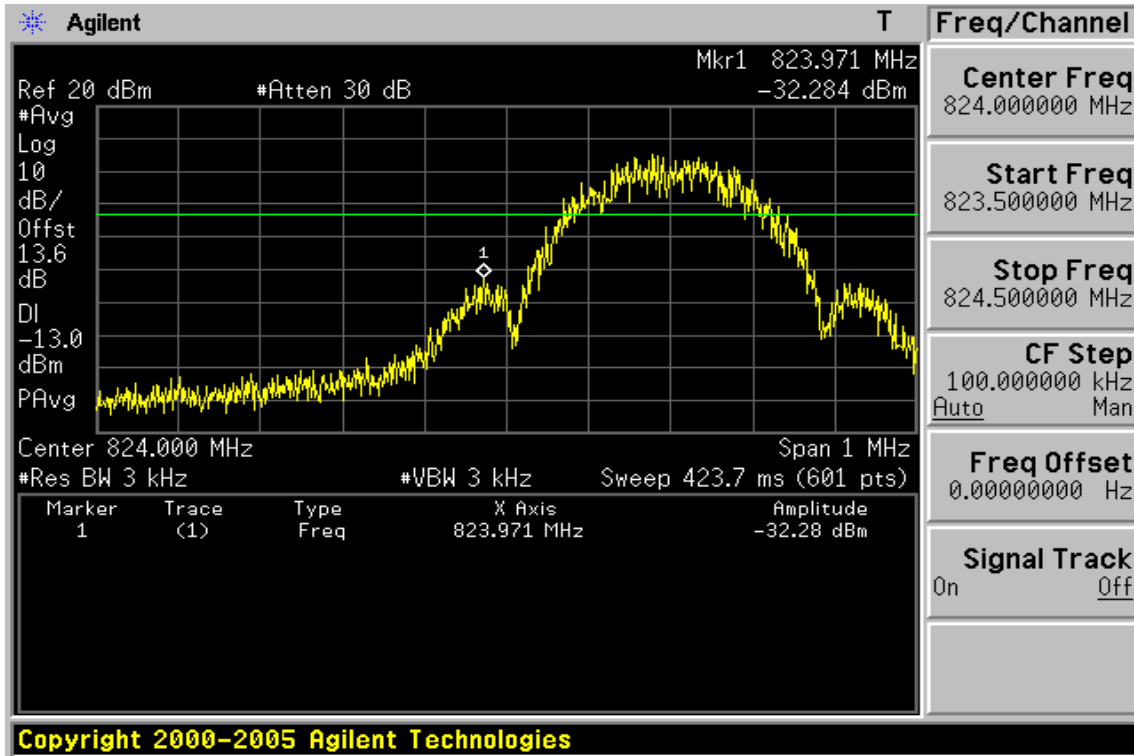
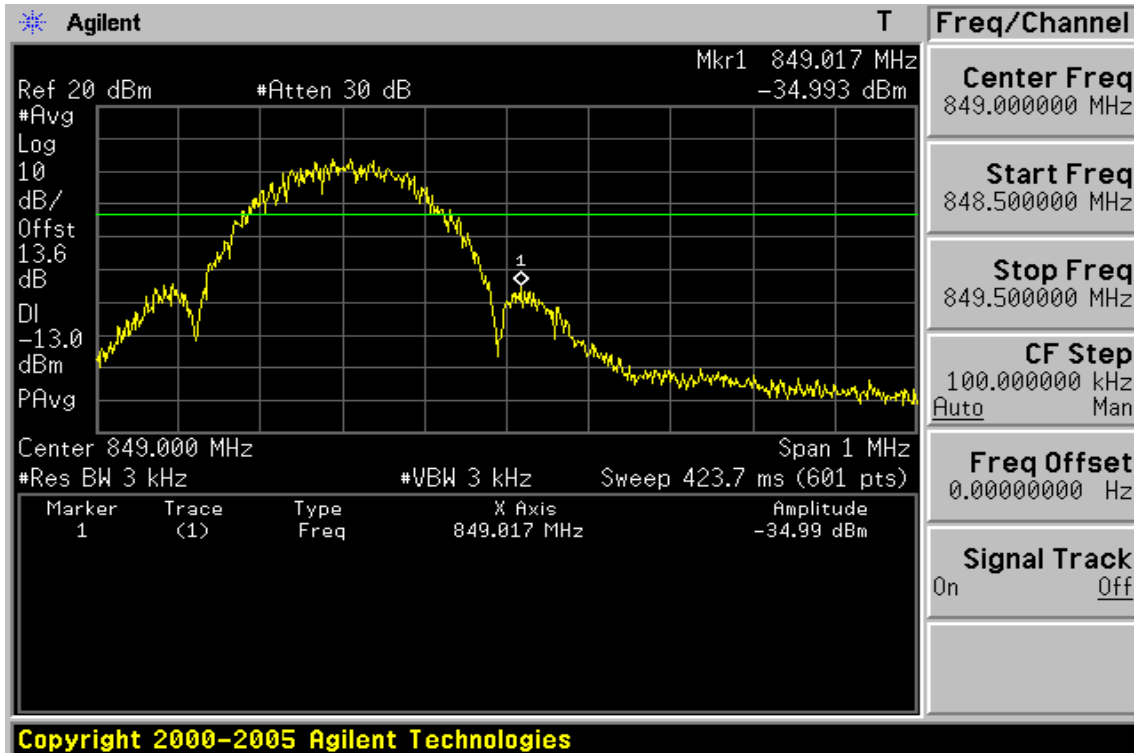


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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

Test Mode EDGE 850 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.971	-32.28	-13.00	19.28
849.017	-34.99	-13.00	21.99

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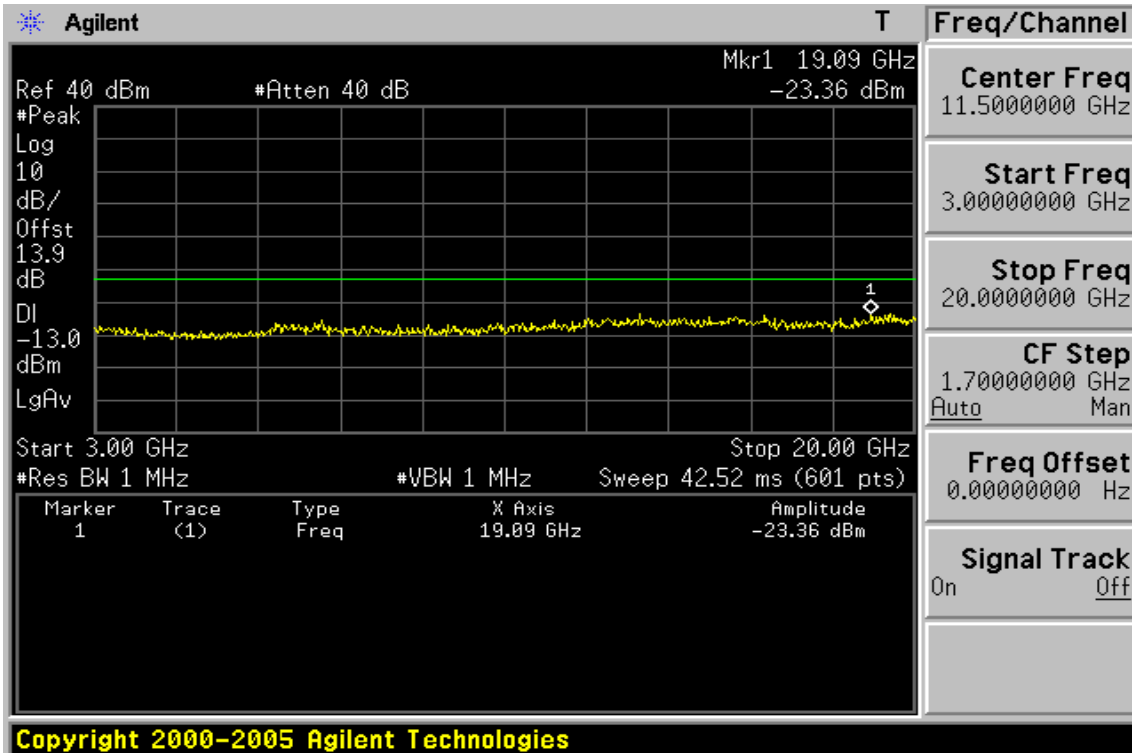
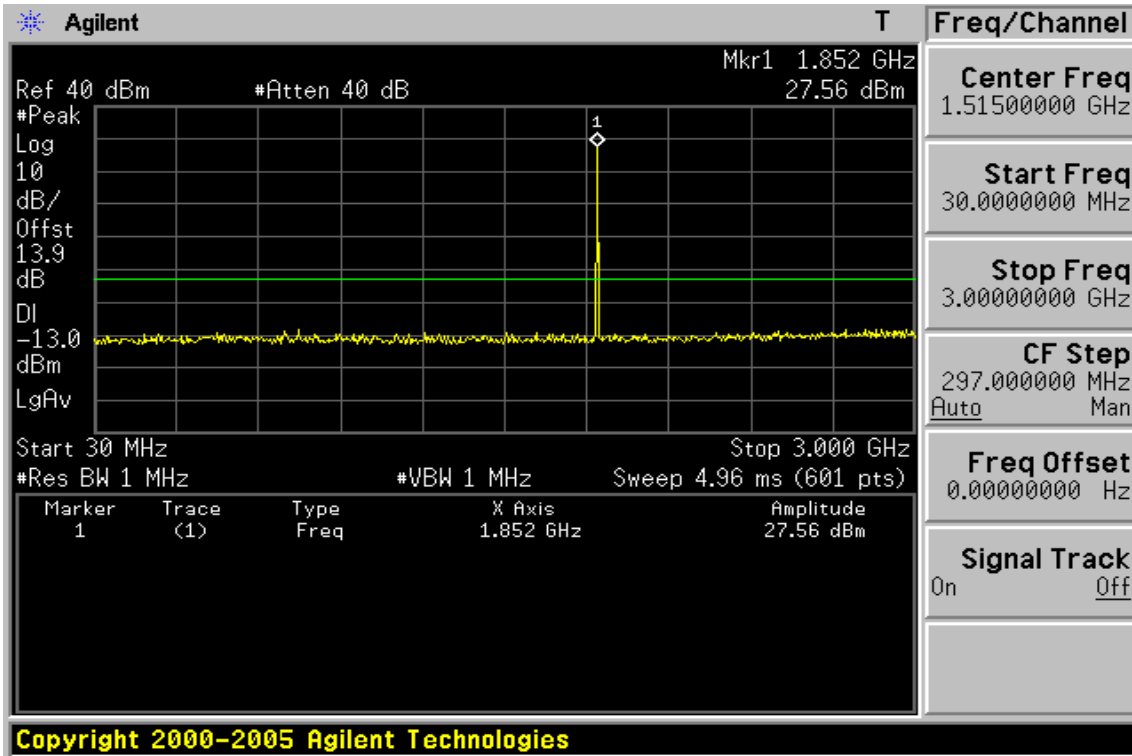
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Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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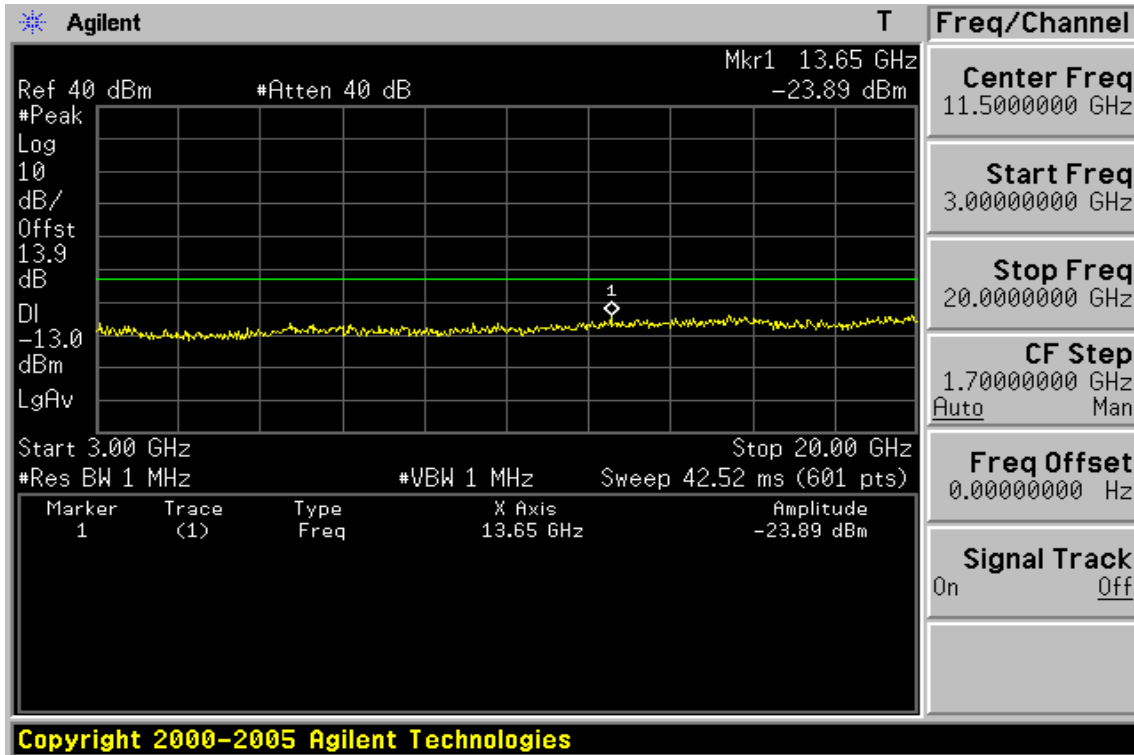
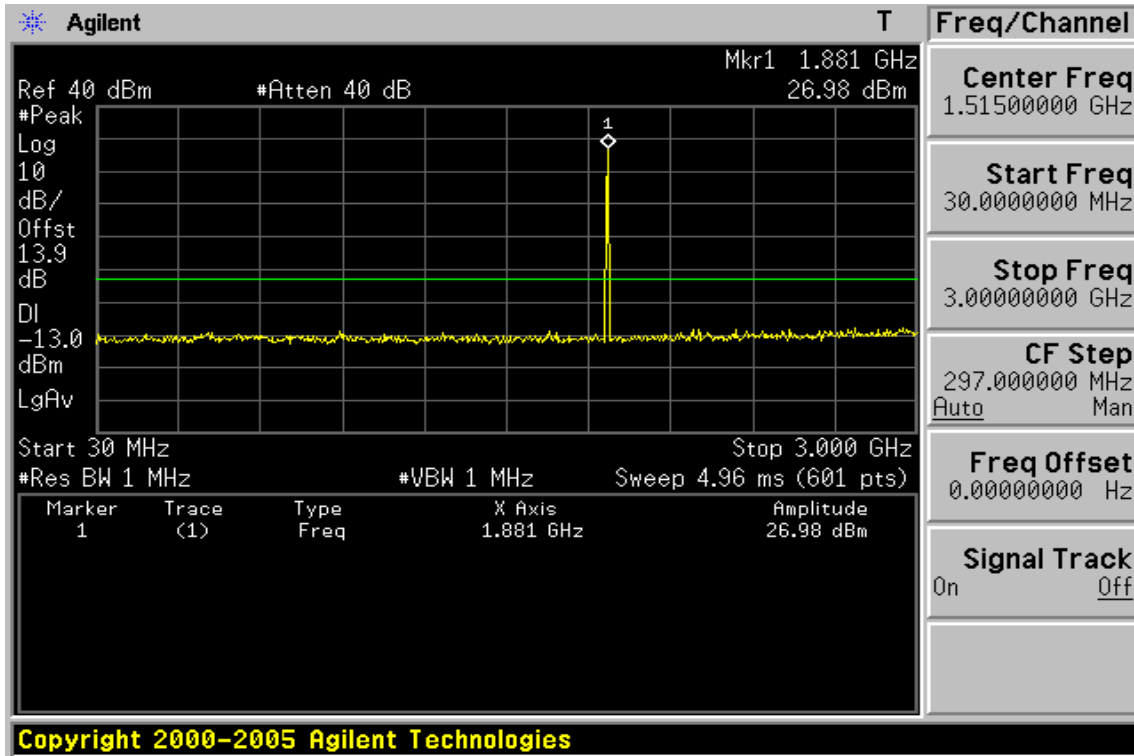
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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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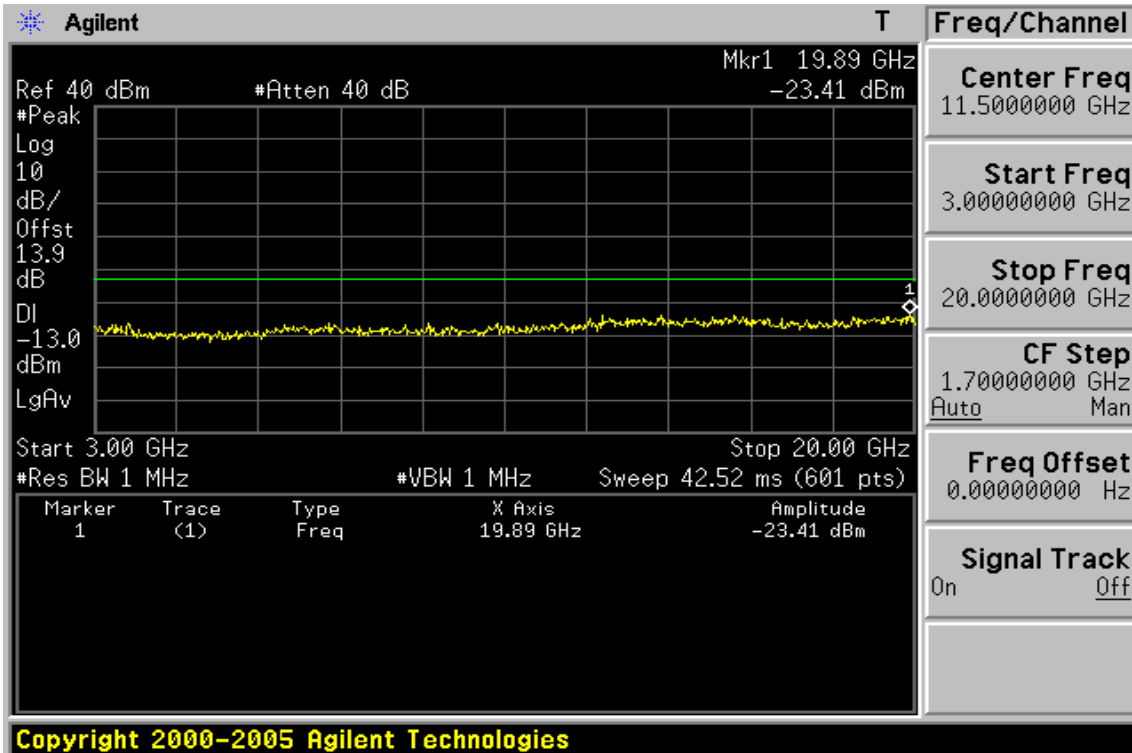
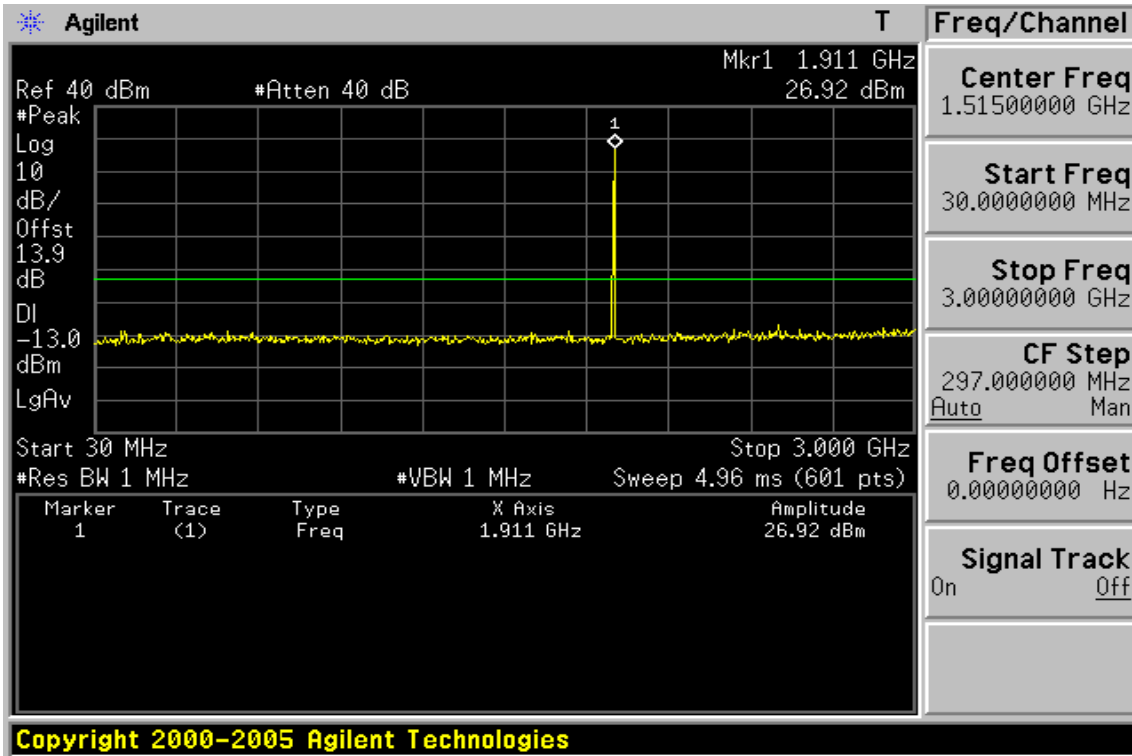
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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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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	---
19090.00	S	-23.36	-13.00	10.36

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

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

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13650.00	S	-23.89	-13.00	10.89
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	---
19890.00	S	-23.41	-13.00	10.41

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

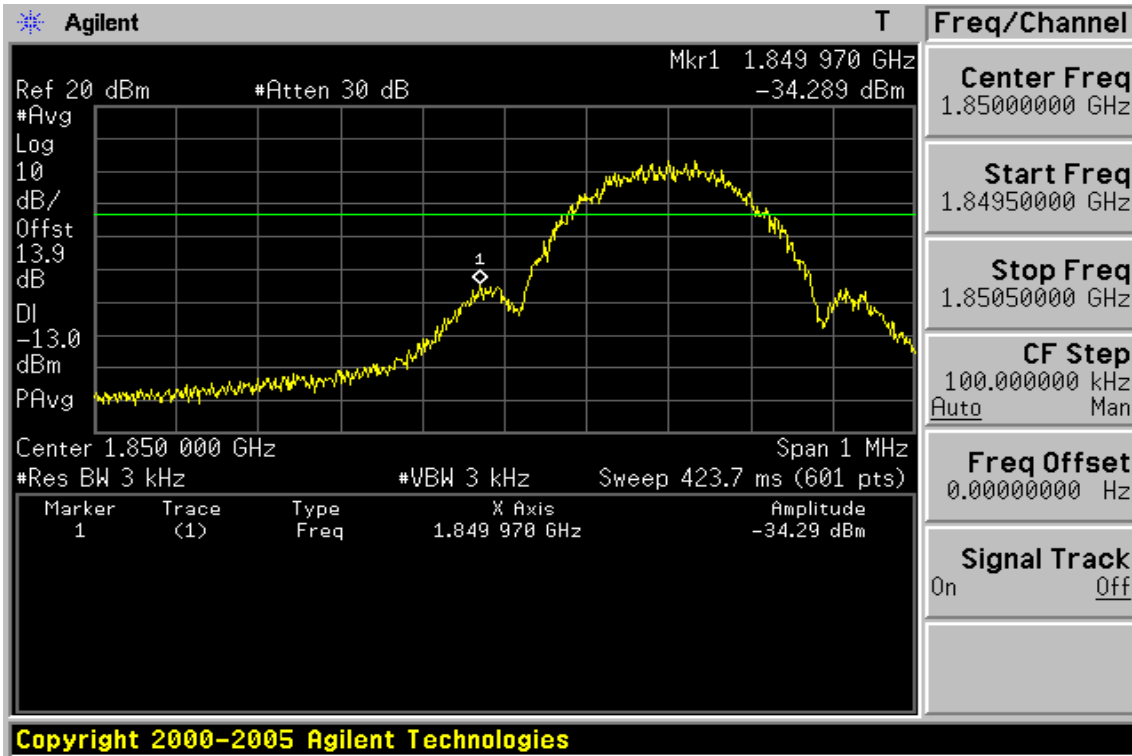
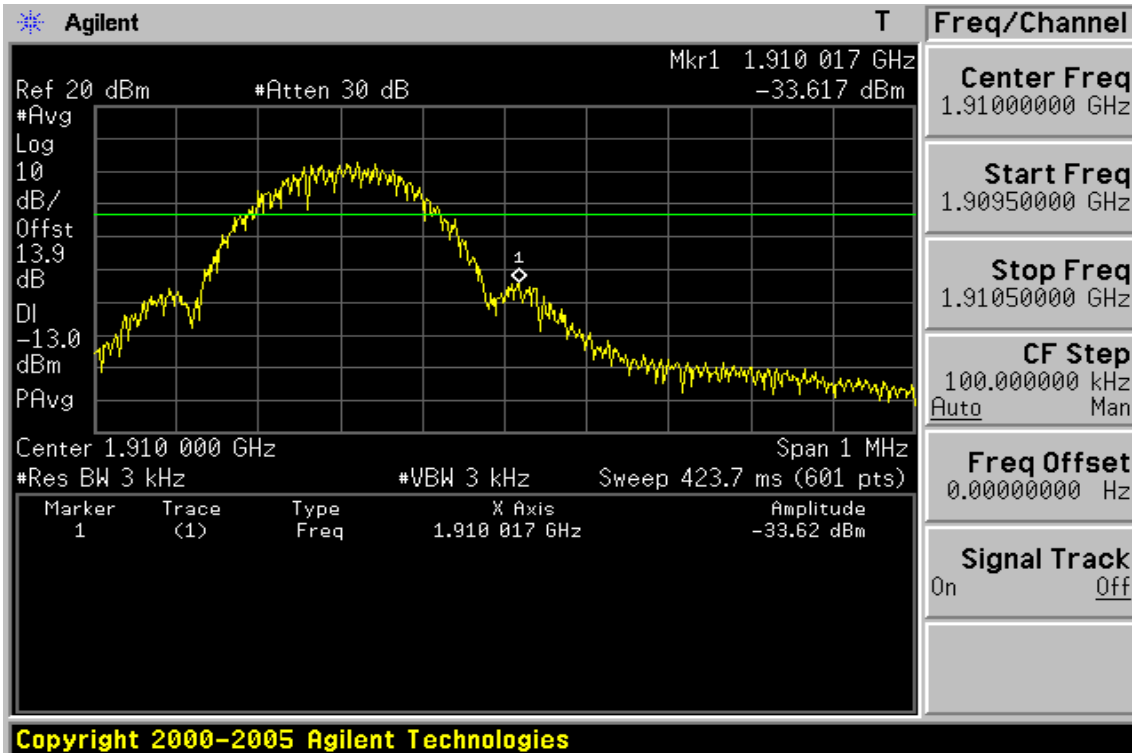


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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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
1849.970	-34.29	-13.00	21.29
1910.017	-33.62	-13.00	20.62

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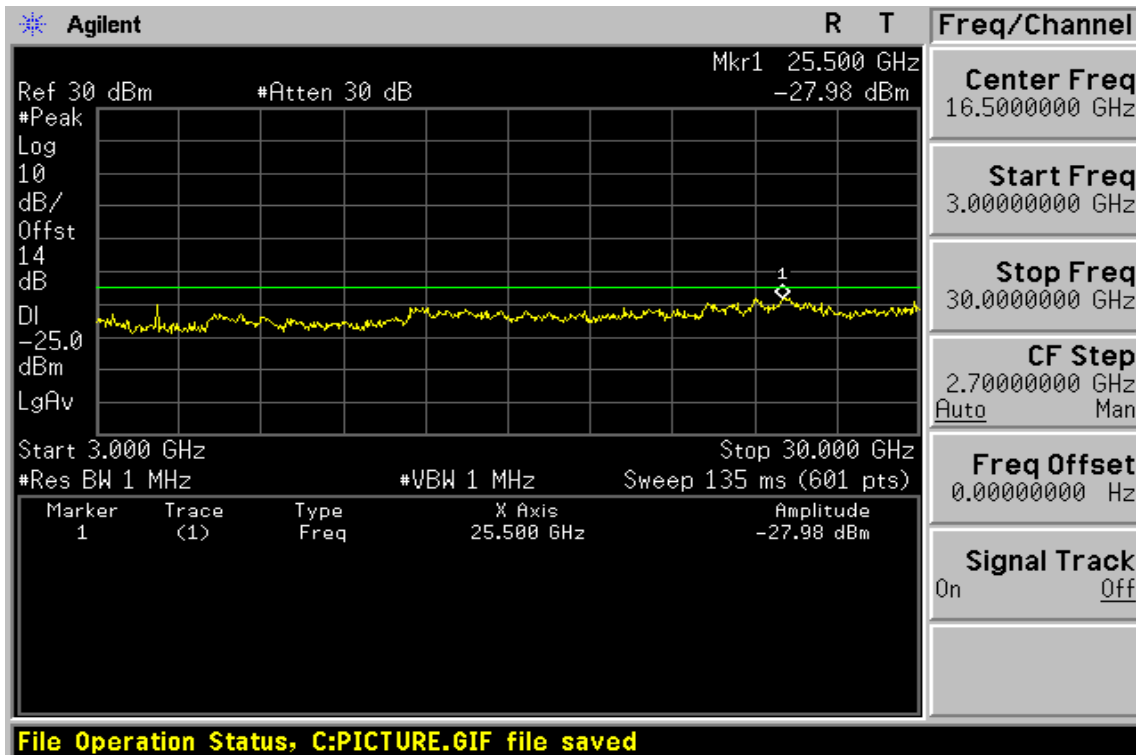
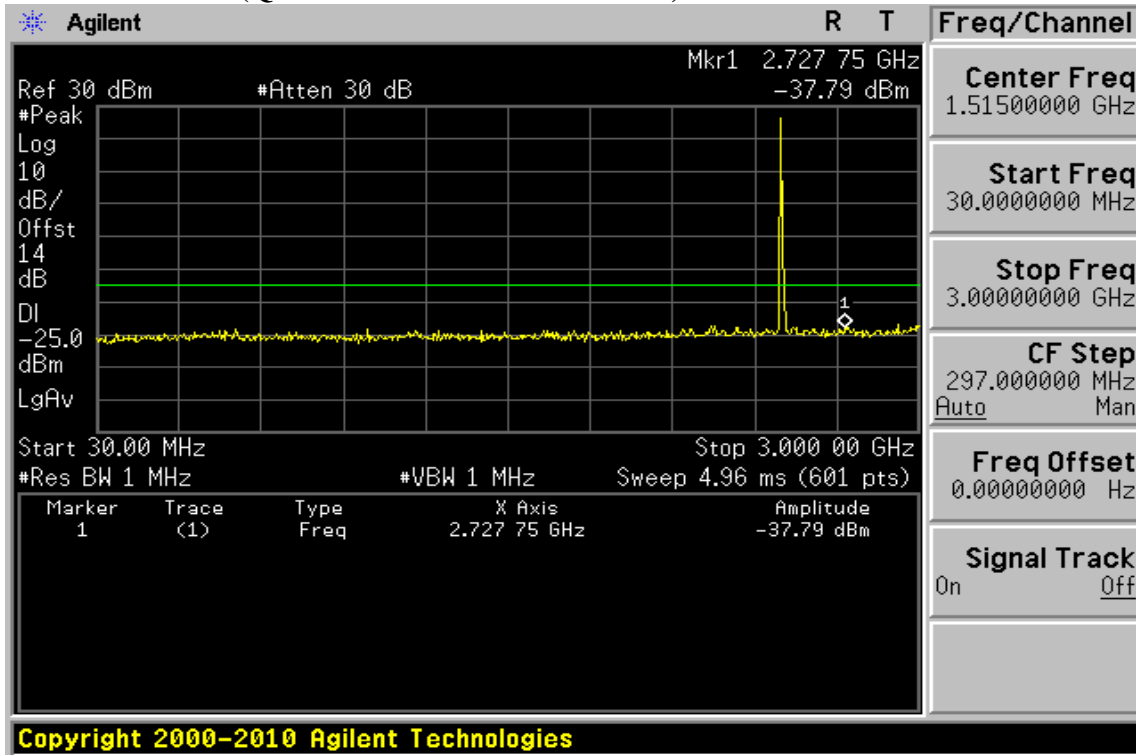
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Figure 10-31: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

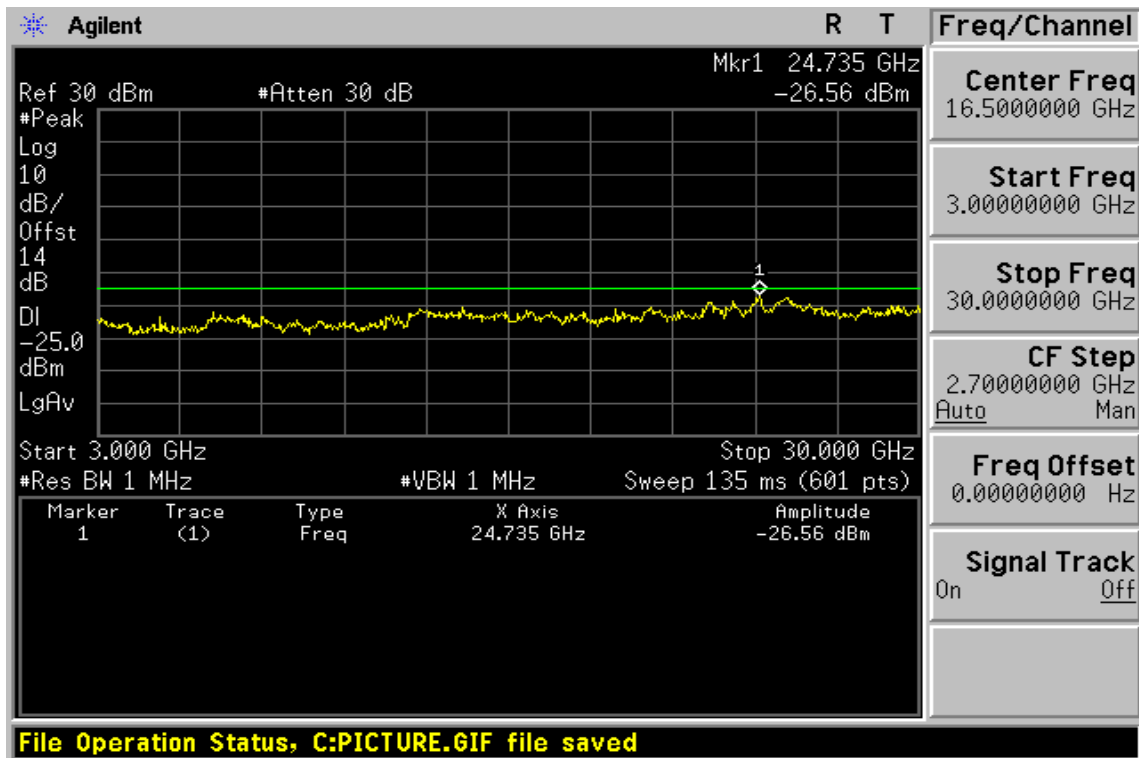
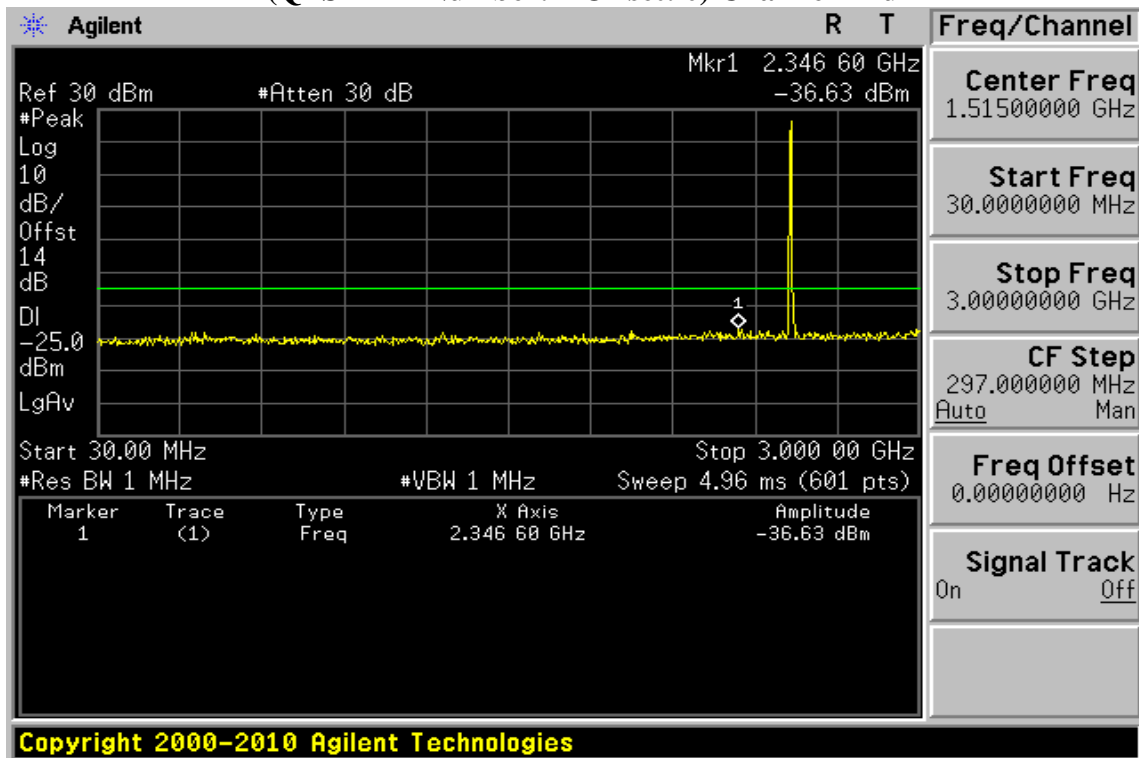


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Figure 10-32: Out of Band emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid

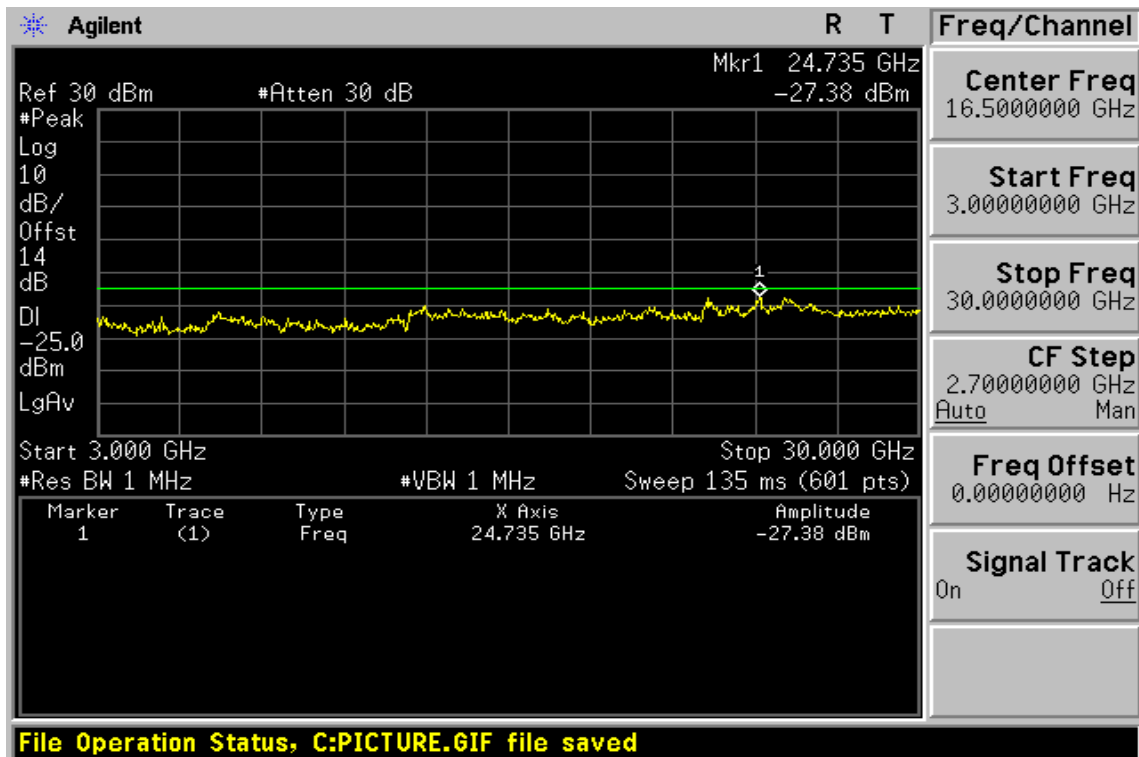
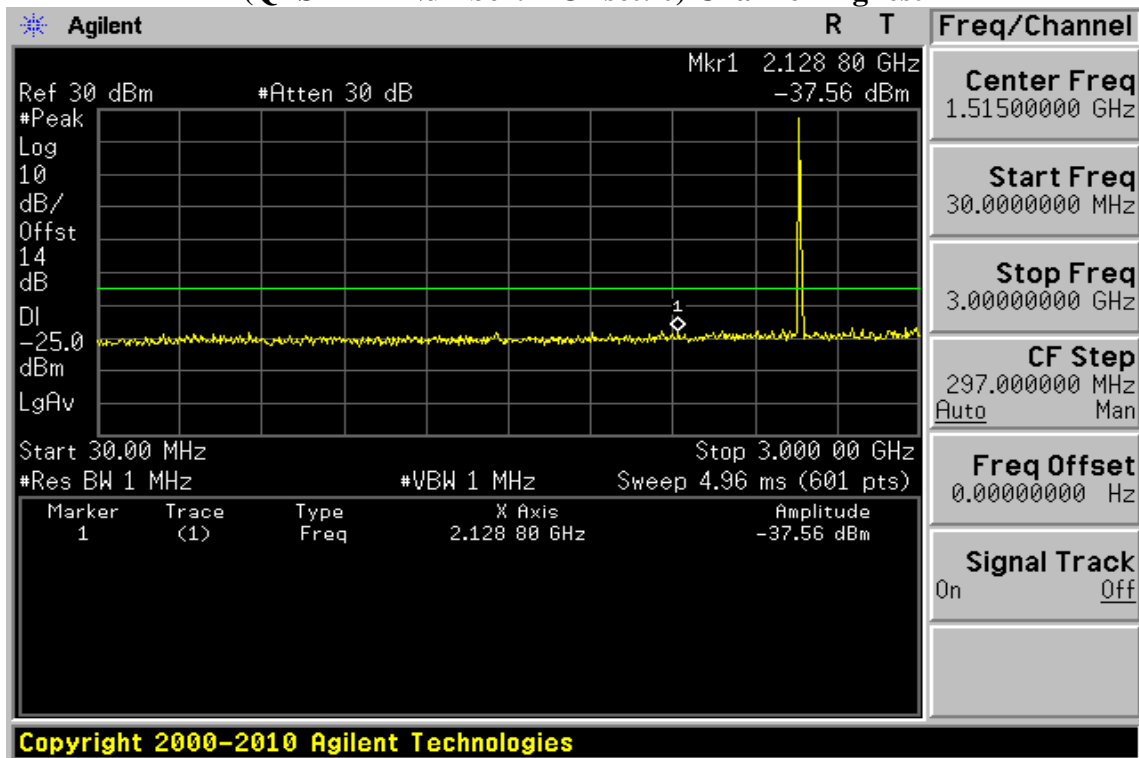


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Figure 10-33: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest



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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	---
25500.00	S	-27.98	-13.00	14.98

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	---
24735.00	S	-26.56	-13.00	13.56
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	---
24735.00	S	-27.38	-13.00	14.38
25675.00	H	---	-13.00	---

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

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Figure 10-34: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

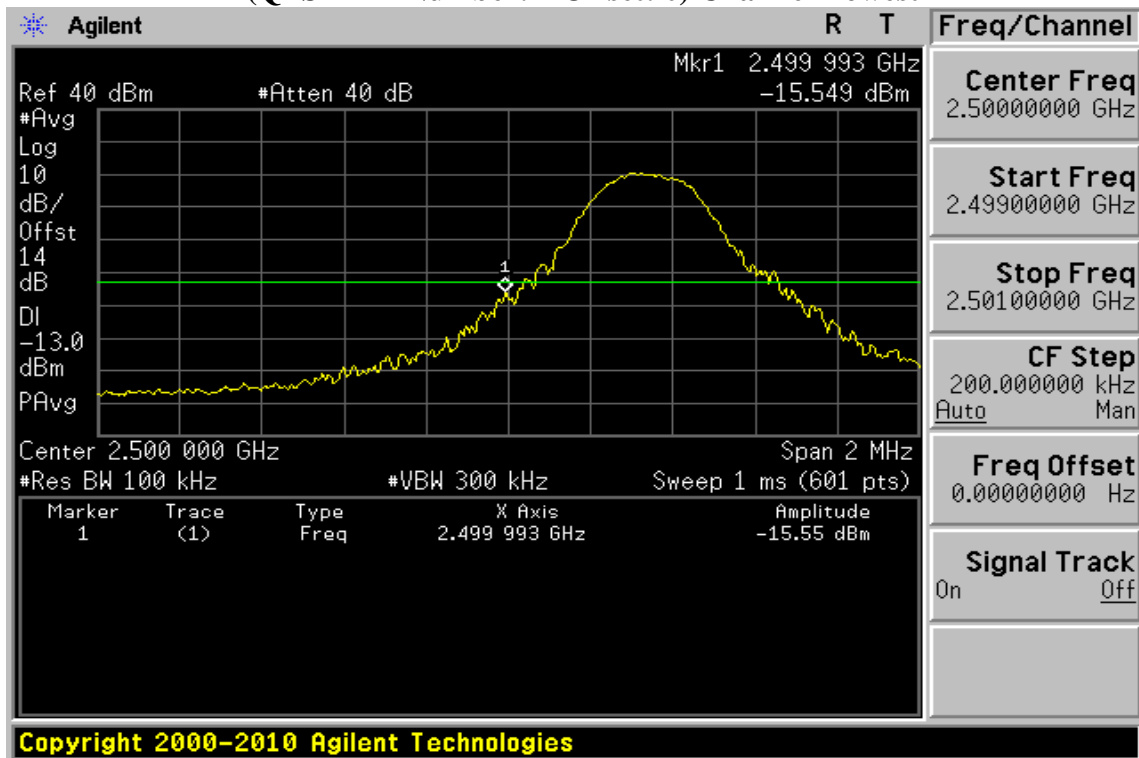
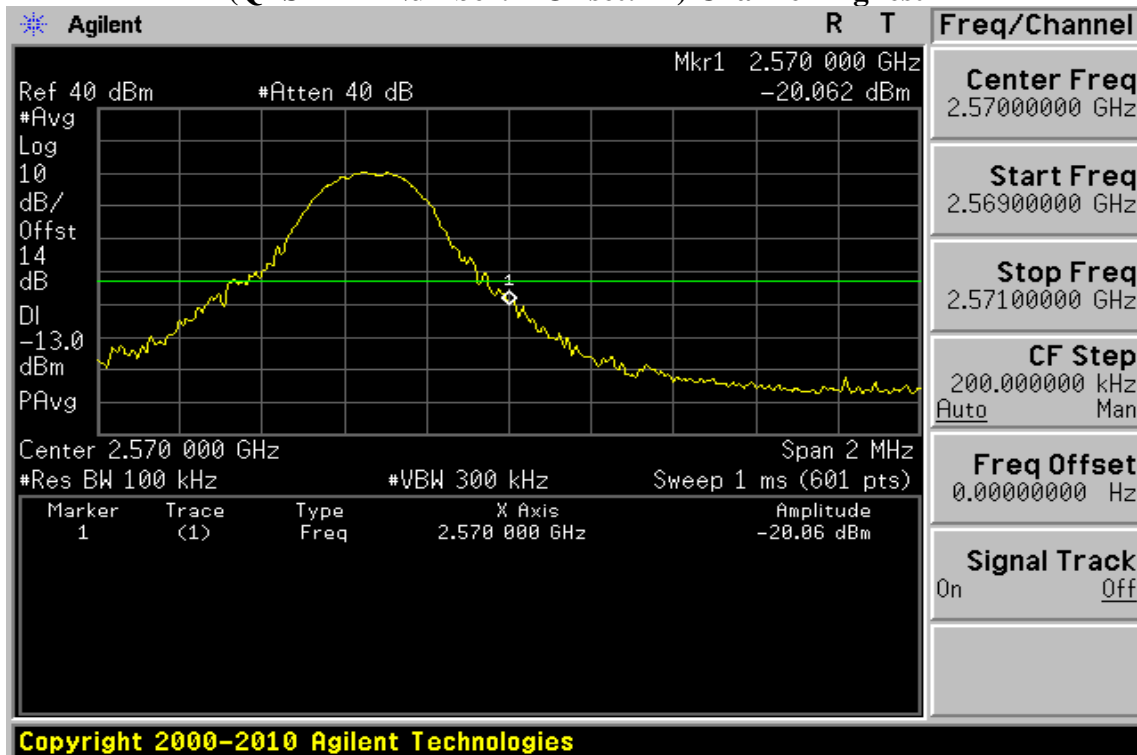


Figure 10-35: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest



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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
2499.993	-15.55	-13.00	2.55
2570.000	-20.06	-13.00	7.06

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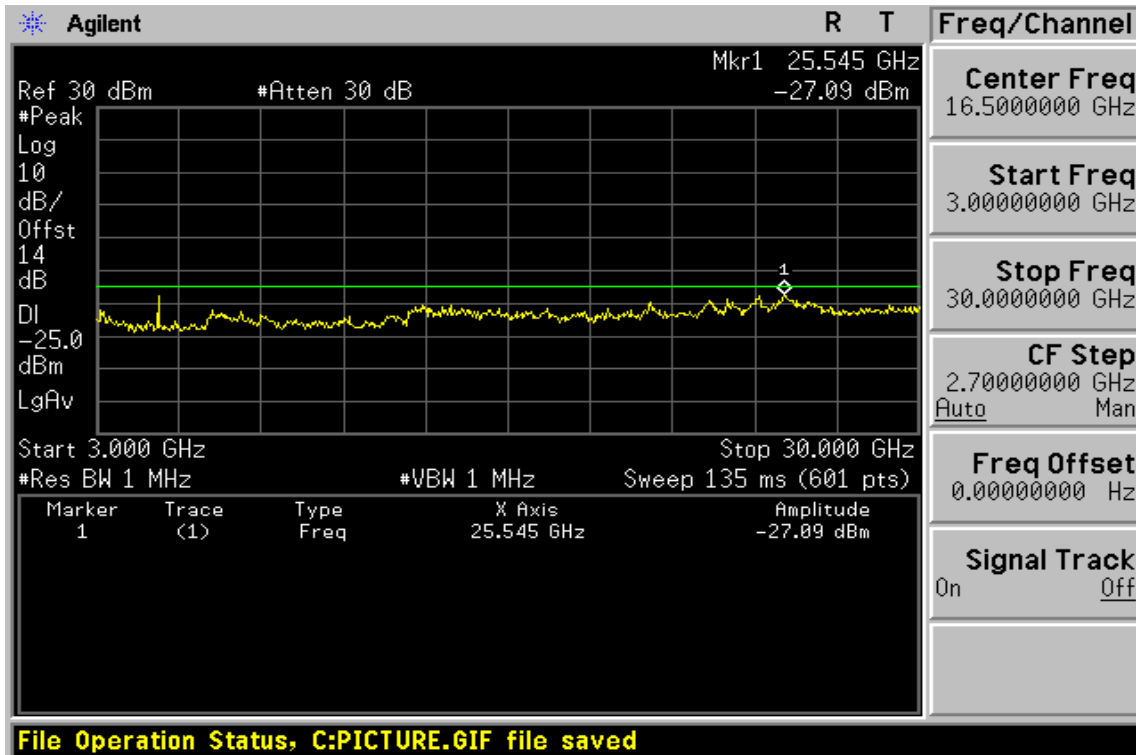
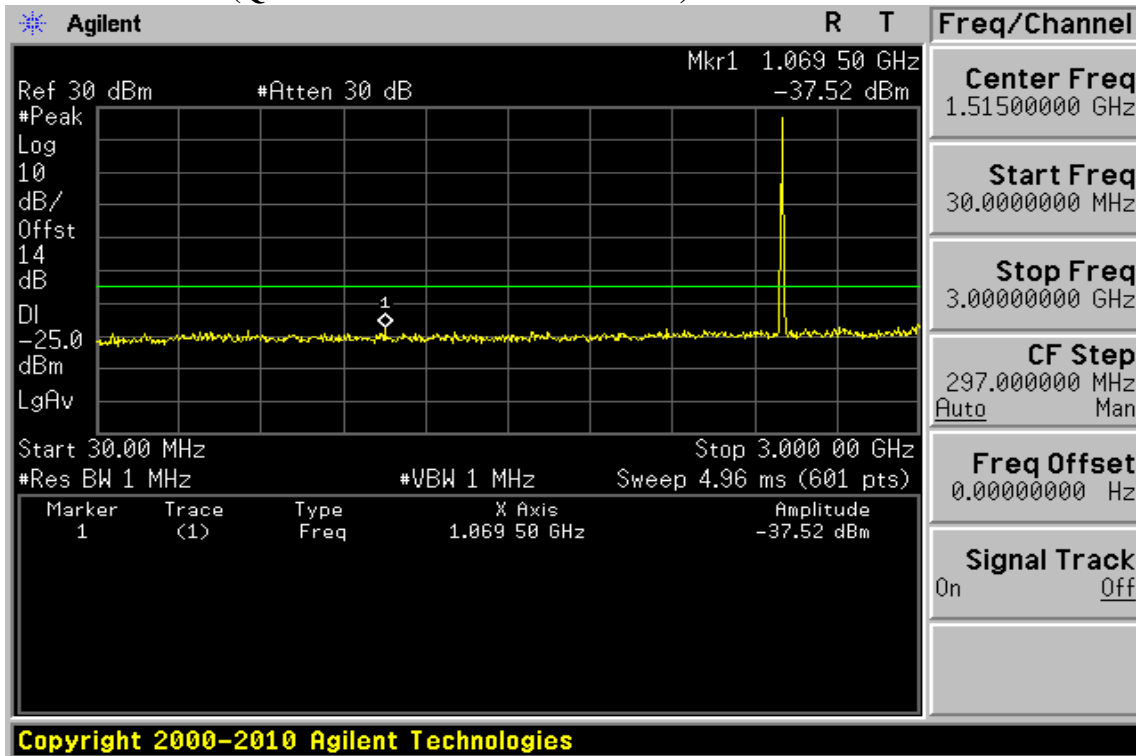
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**Figure 10-36: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7
 (QPSK RB Number: 1 Offset: 24) Channel Lowest**

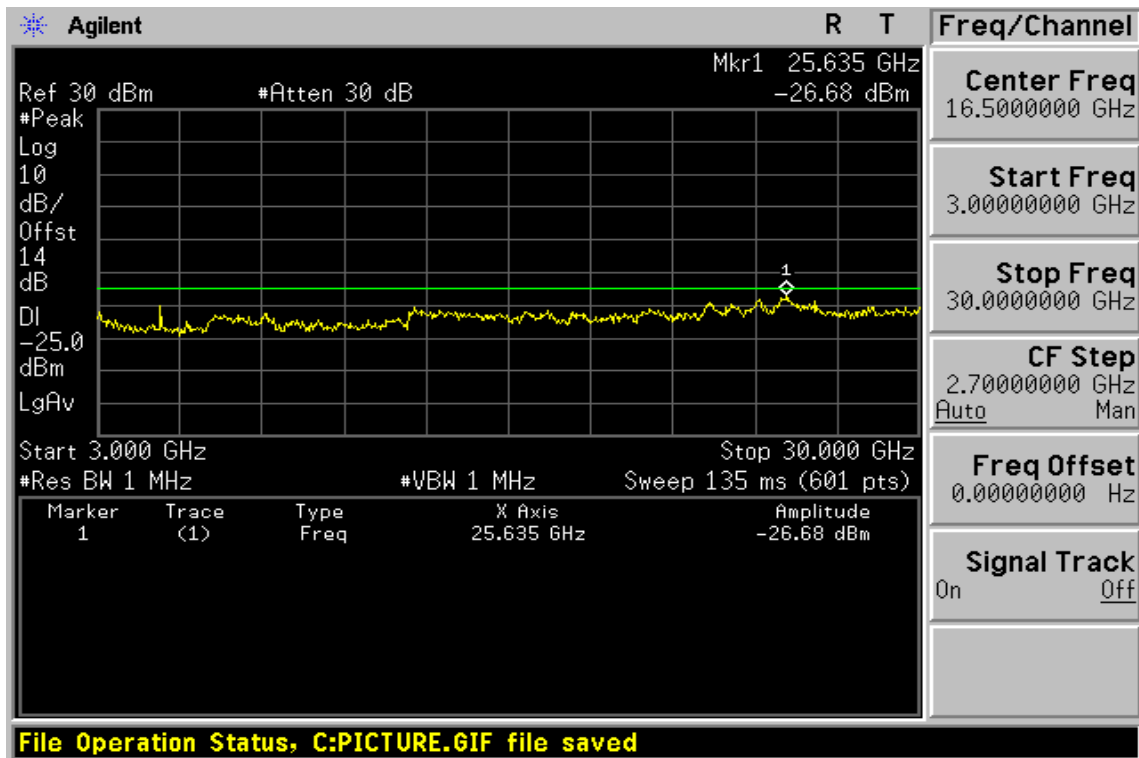
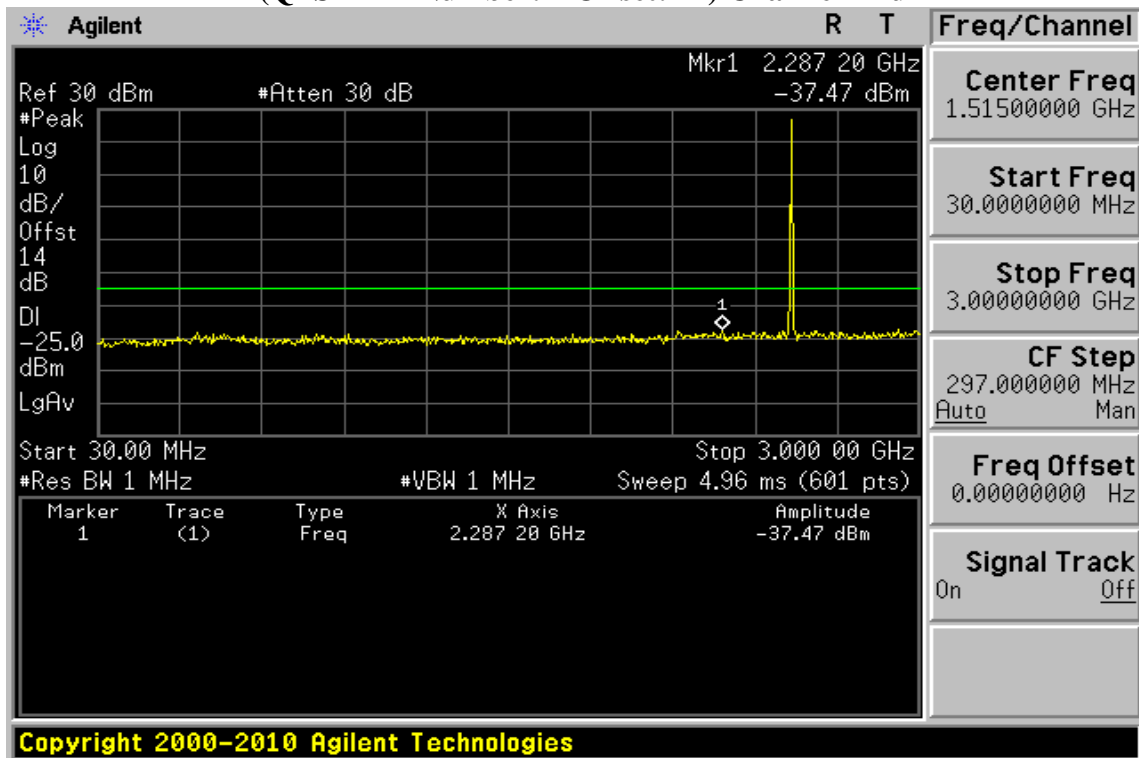


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Figure 10-37: Out of Band emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Mid

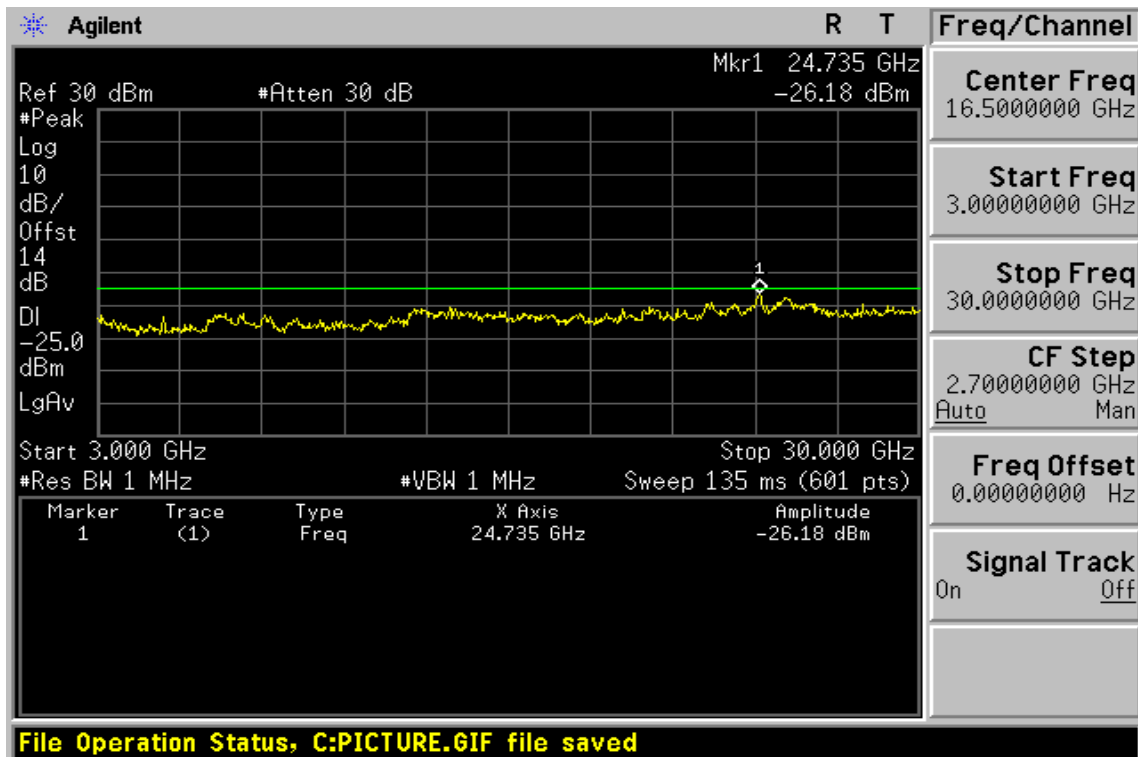
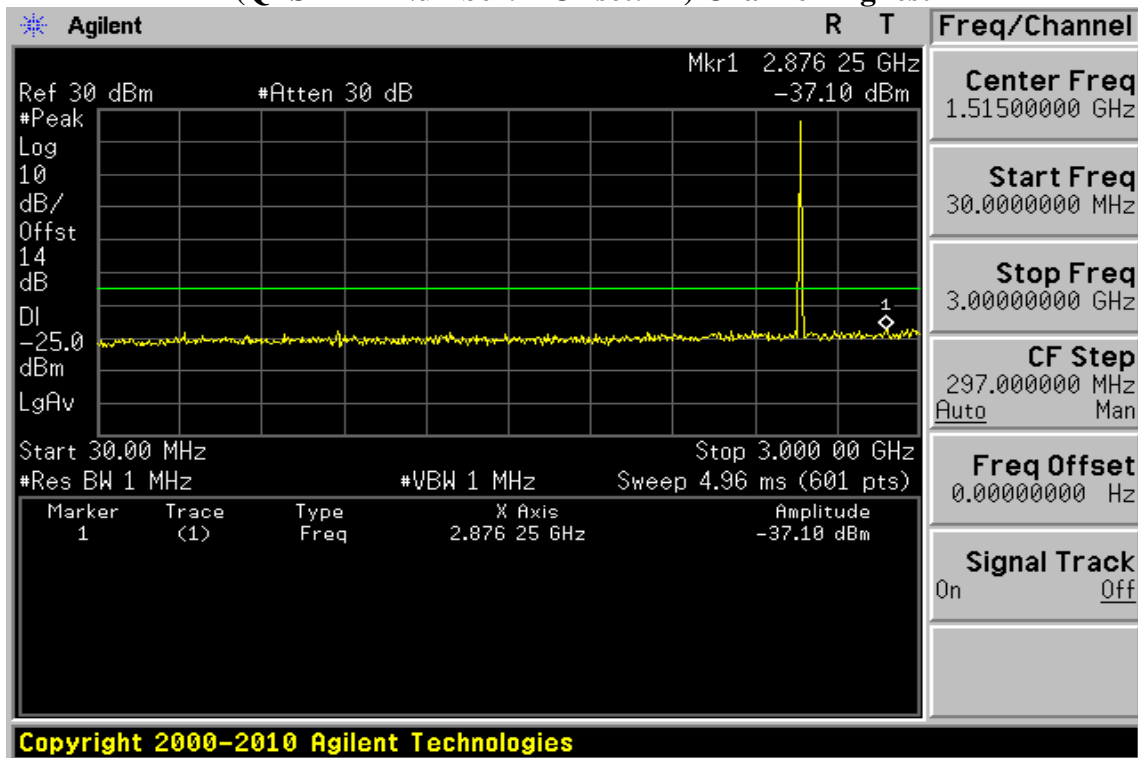


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Figure 10-38: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest



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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	---
25545.00	S	-27.09	-13.00	14.09

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	-26.68	-13.00	13.68

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	---
24735.00	S	-26.18	-13.00	13.18
25675.00	H	---	-13.00	---

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

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Figure 10-39: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Lowest

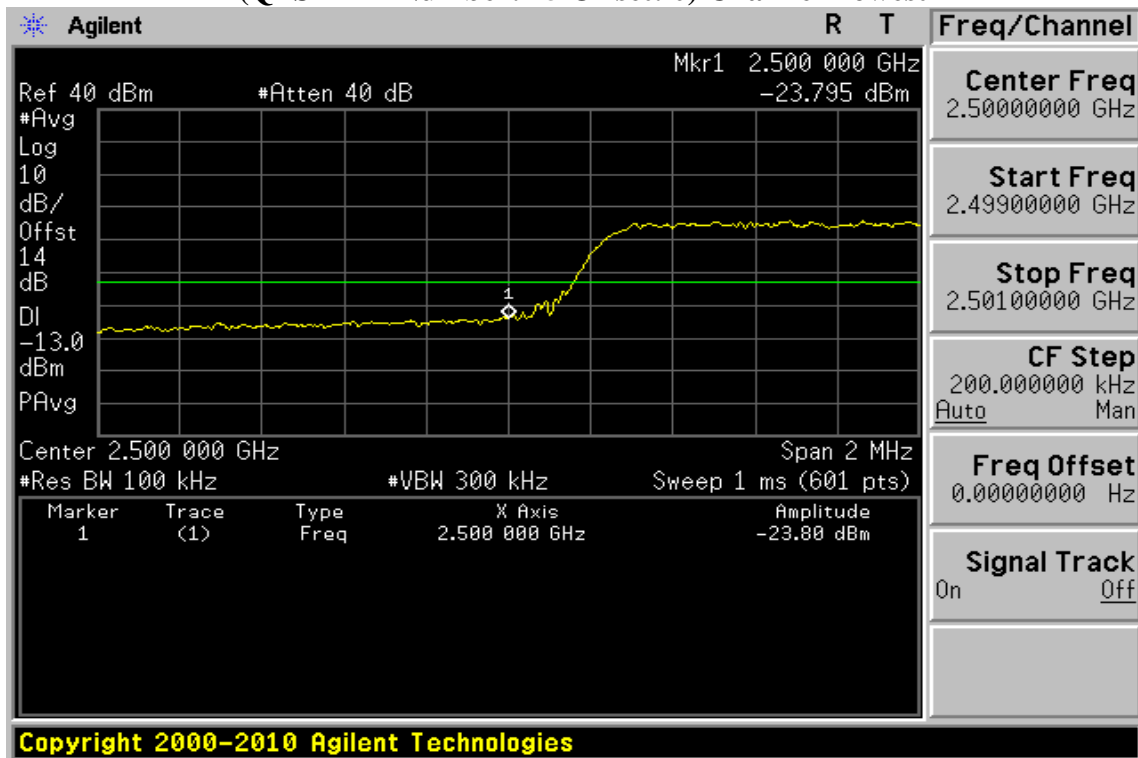
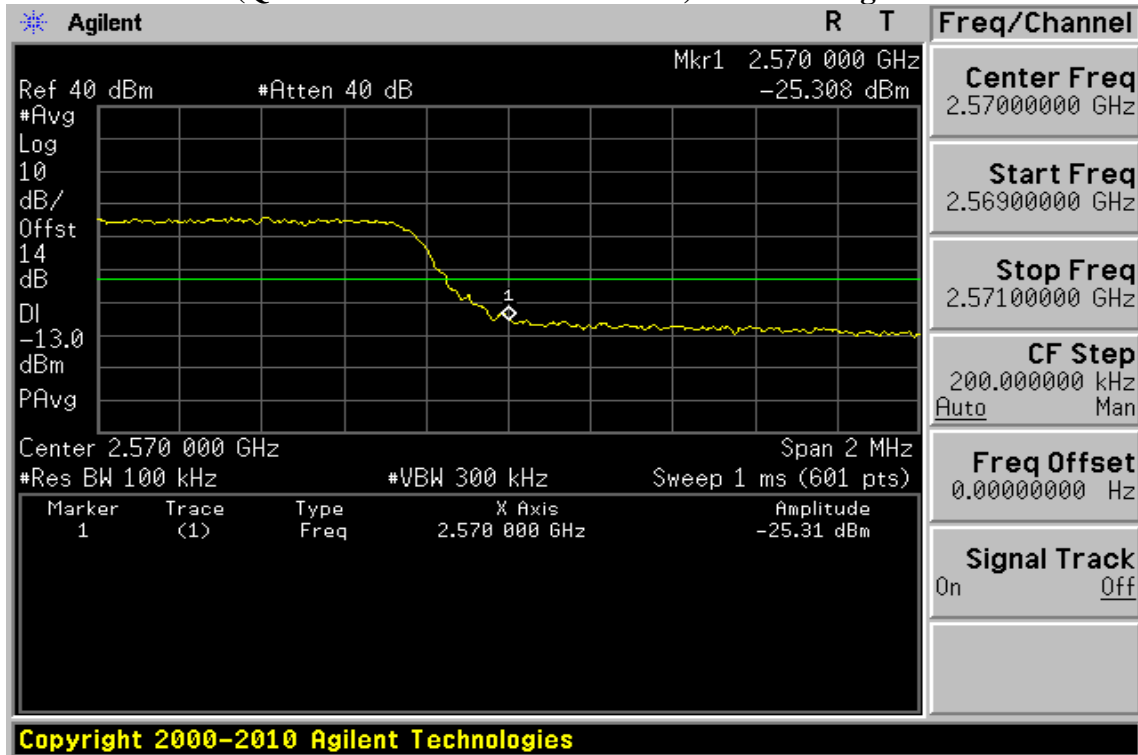


Figure 10-40: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Highest



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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	-23.80	-13.00	10.80
2570.000	-25.31	-13.00	12.31

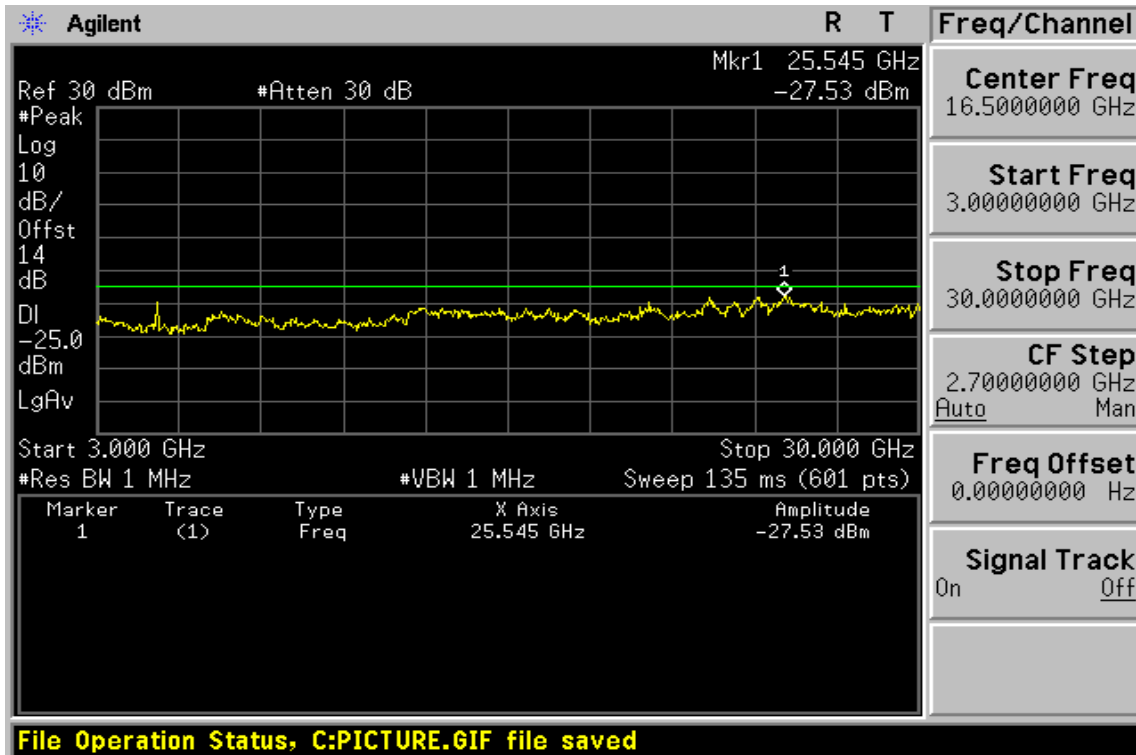
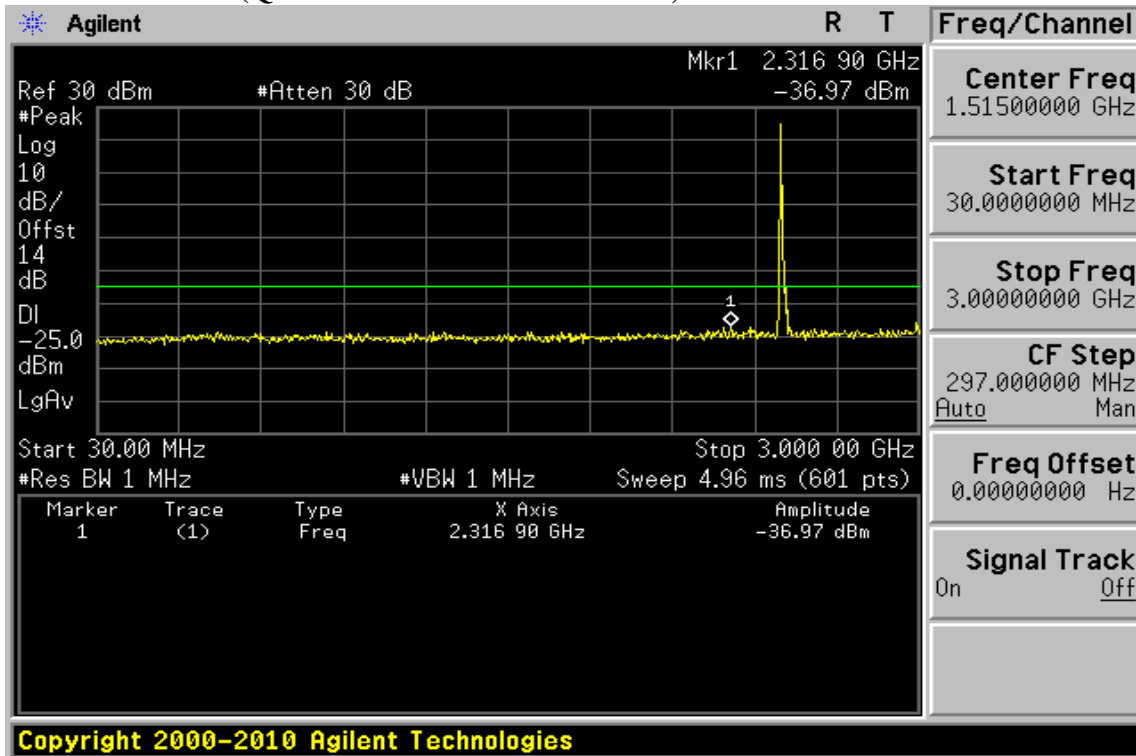
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Figure 10-41: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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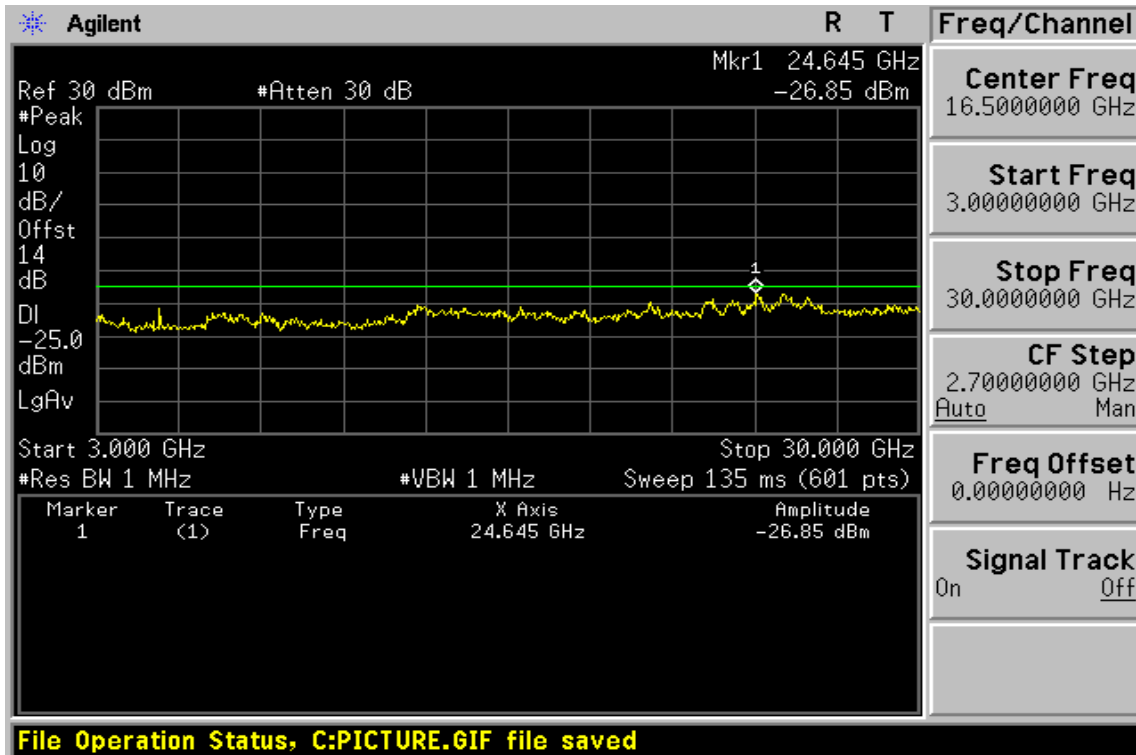
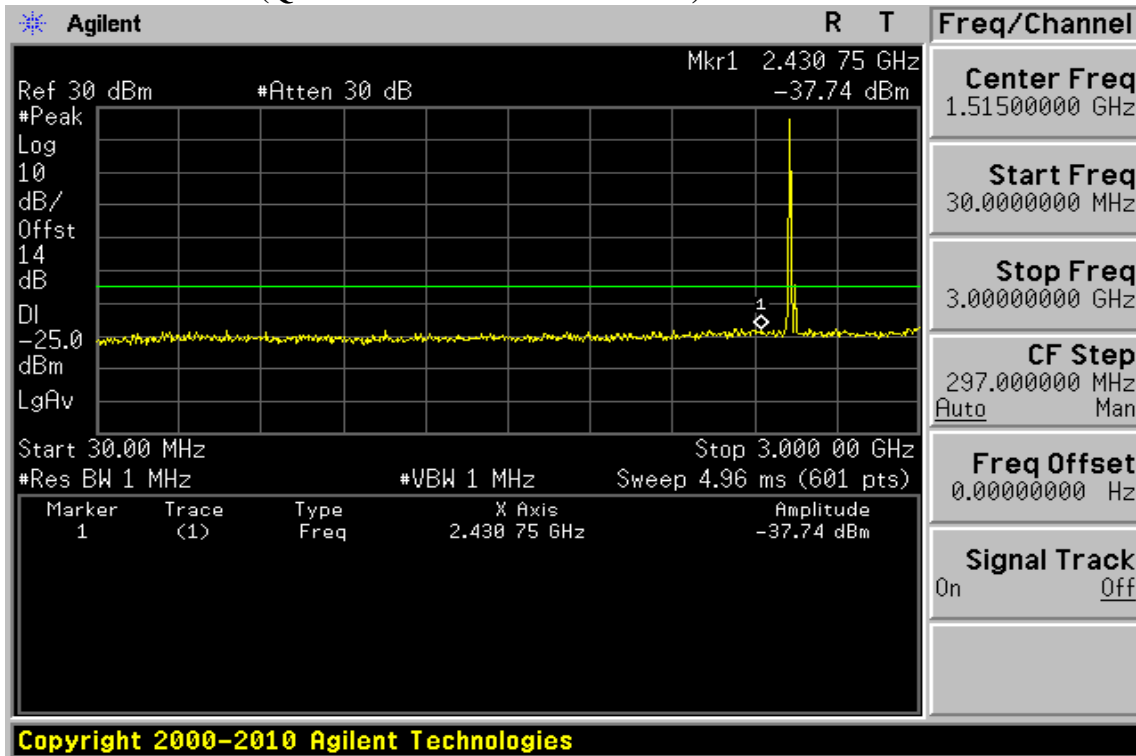
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Figure 10-42: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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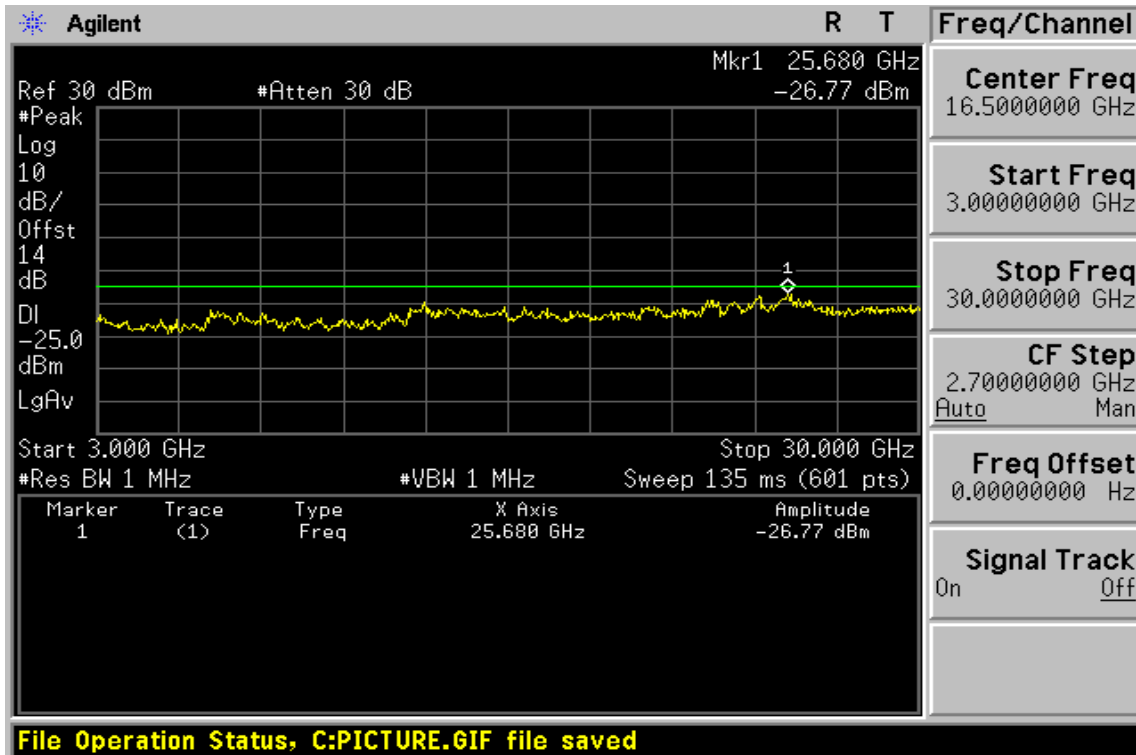
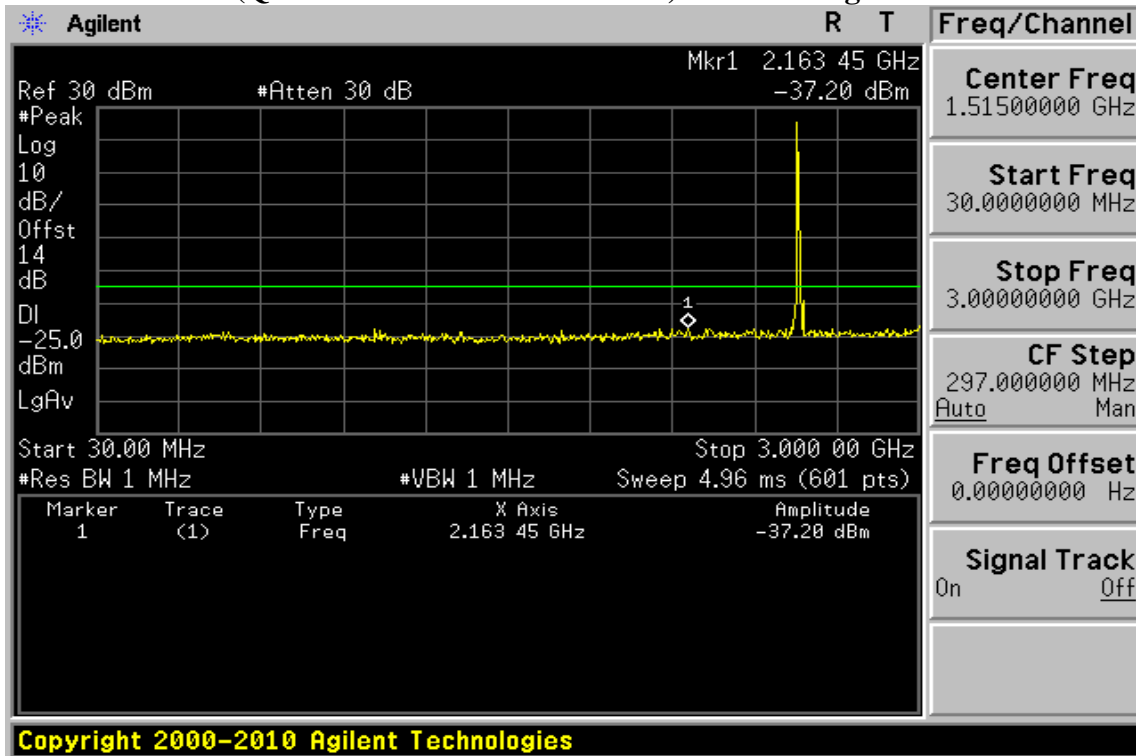
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Figure 10-43: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest



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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2505MHz 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	---
5010.00	H	---	-13.00	---
7515.00	H	---	-13.00	---
10020.00	H	---	-13.00	---
12525.00	H	---	-13.00	---
15030.00	H	---	-13.00	---
17535.00	H	---	-13.00	---
20040.00	H	---	-13.00	---
22545.00	H	---	-13.00	---
25050.00	H	---	-13.00	---
25545.00	S	-27.53	-13.00	14.53

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	-26.85	-13.00	13.85
25350.00	H	---	-13.00	---

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	---
25650.00	H	---	-13.00	---
25680.00	S	-26.77	-13.00	13.77

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

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Figure 10-44: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

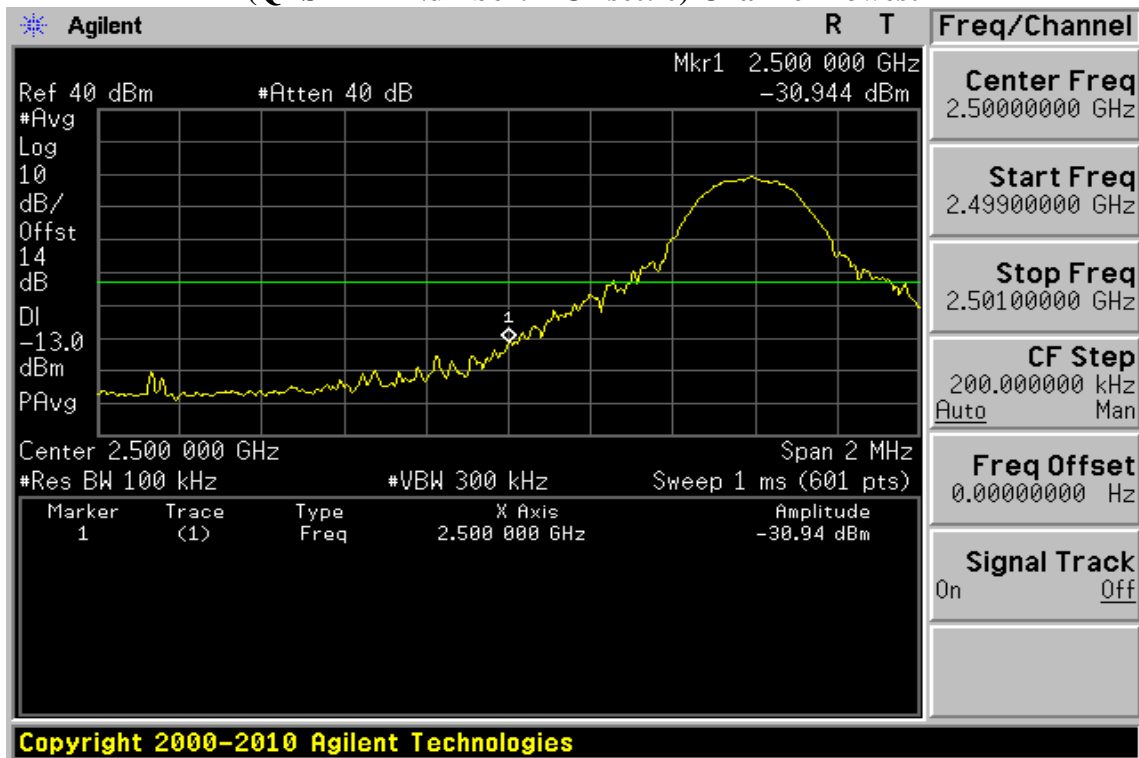
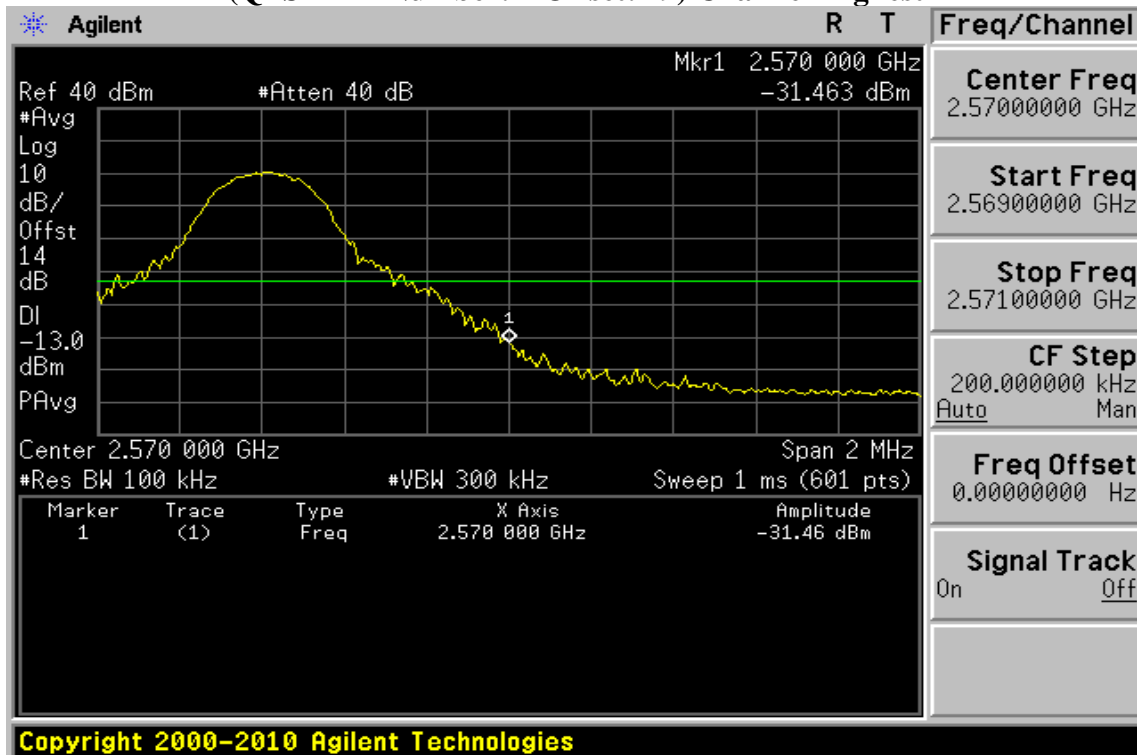


Figure 10-45: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest



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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	-30.94	-13.00	17.94
2570.000	-31.46	-13.00	18.46

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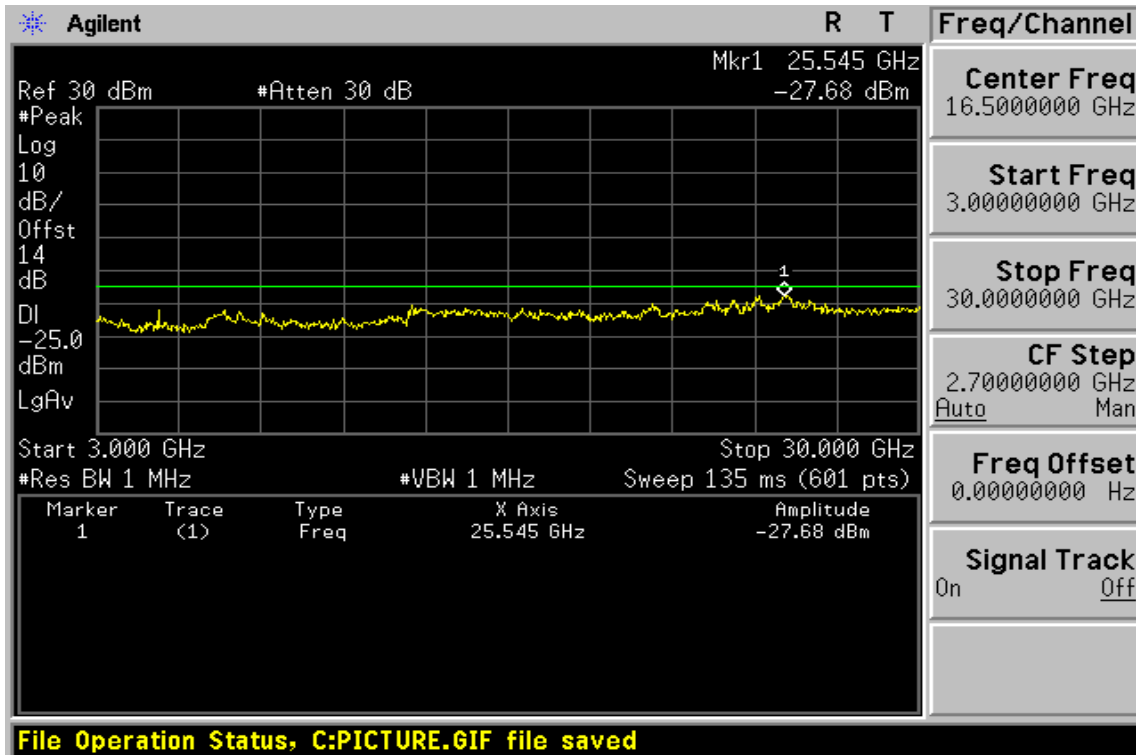
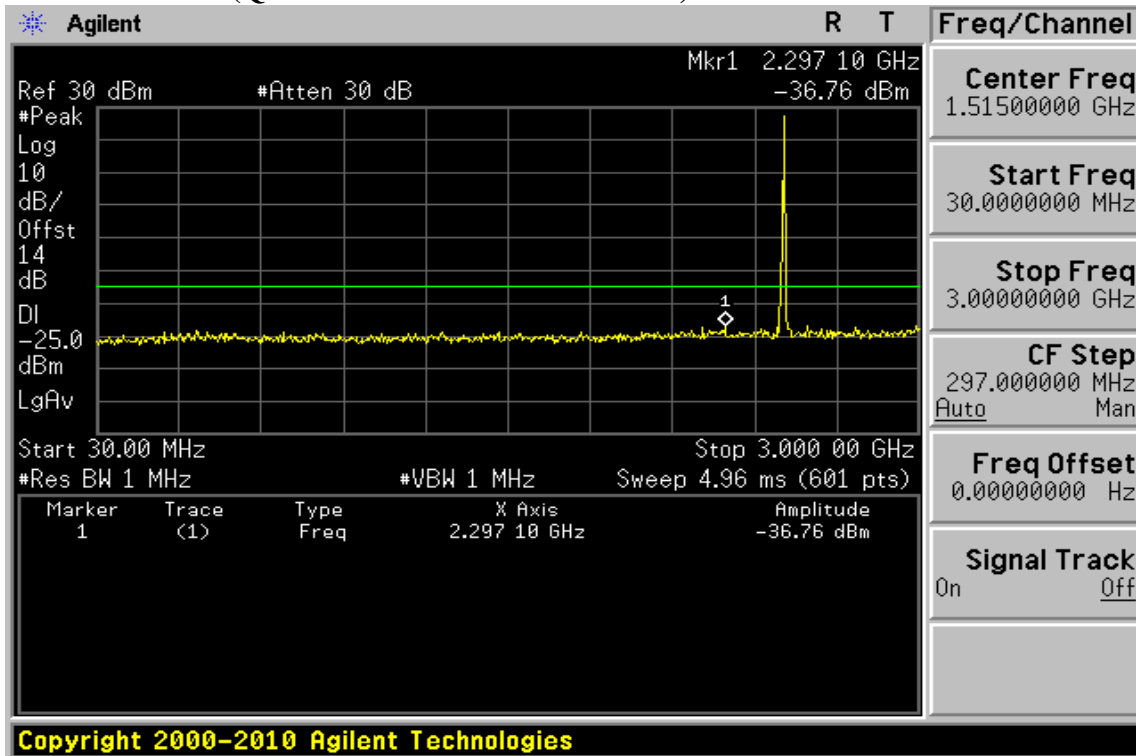
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Figure 10-46: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Lowest



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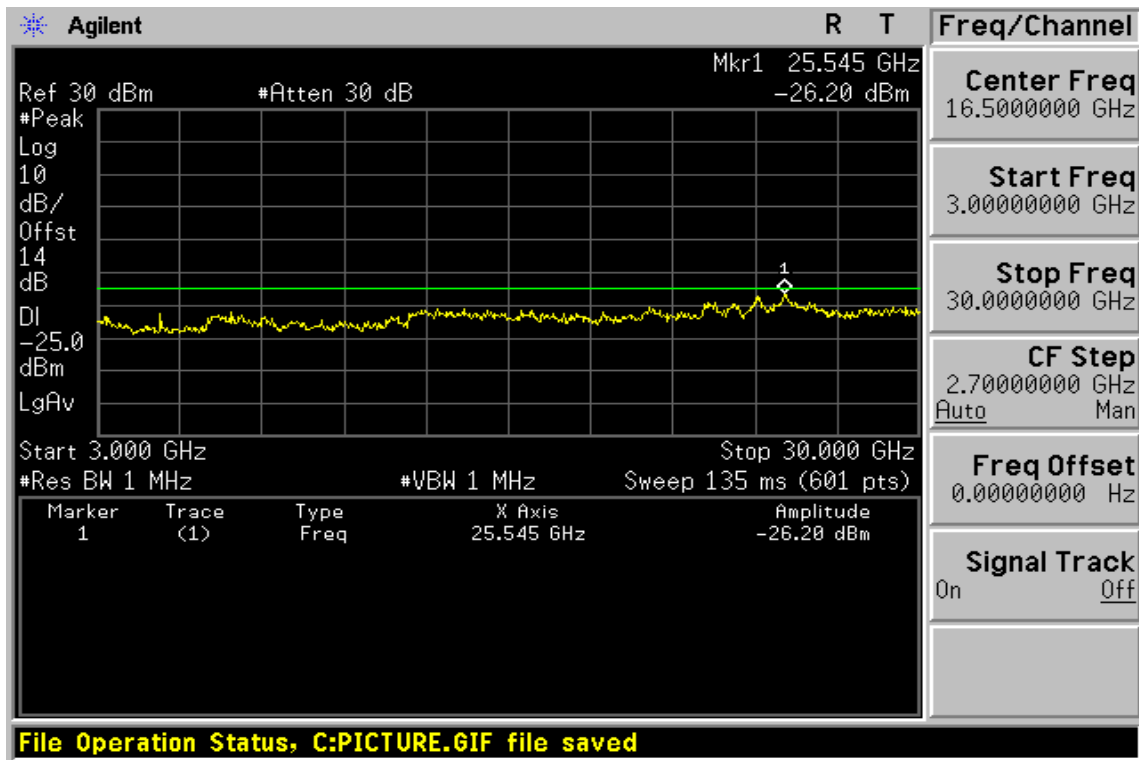
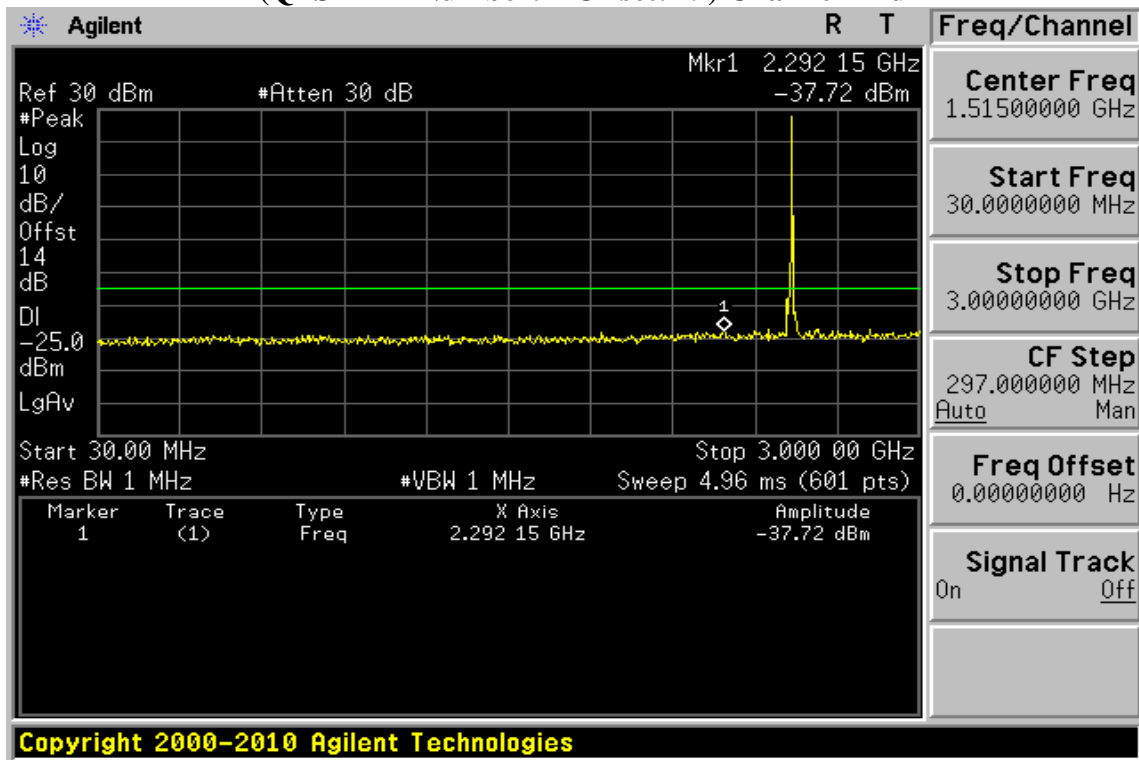
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Figure 10-47: Out of Band emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Mid

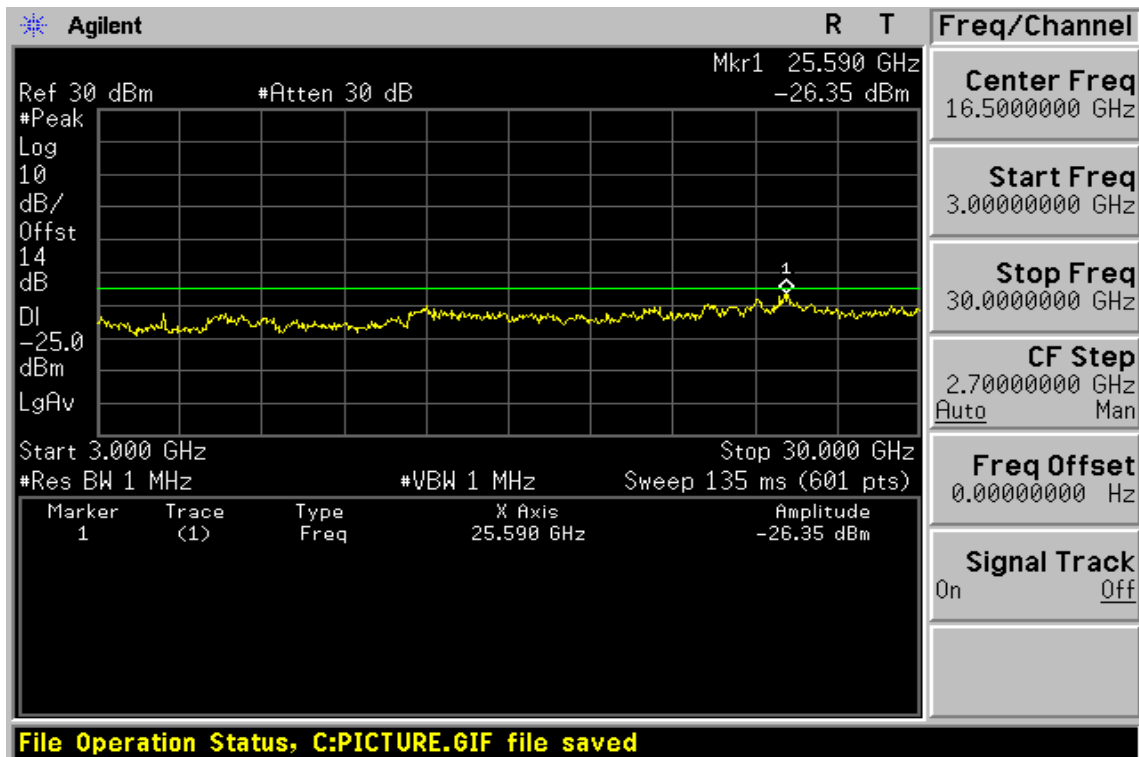
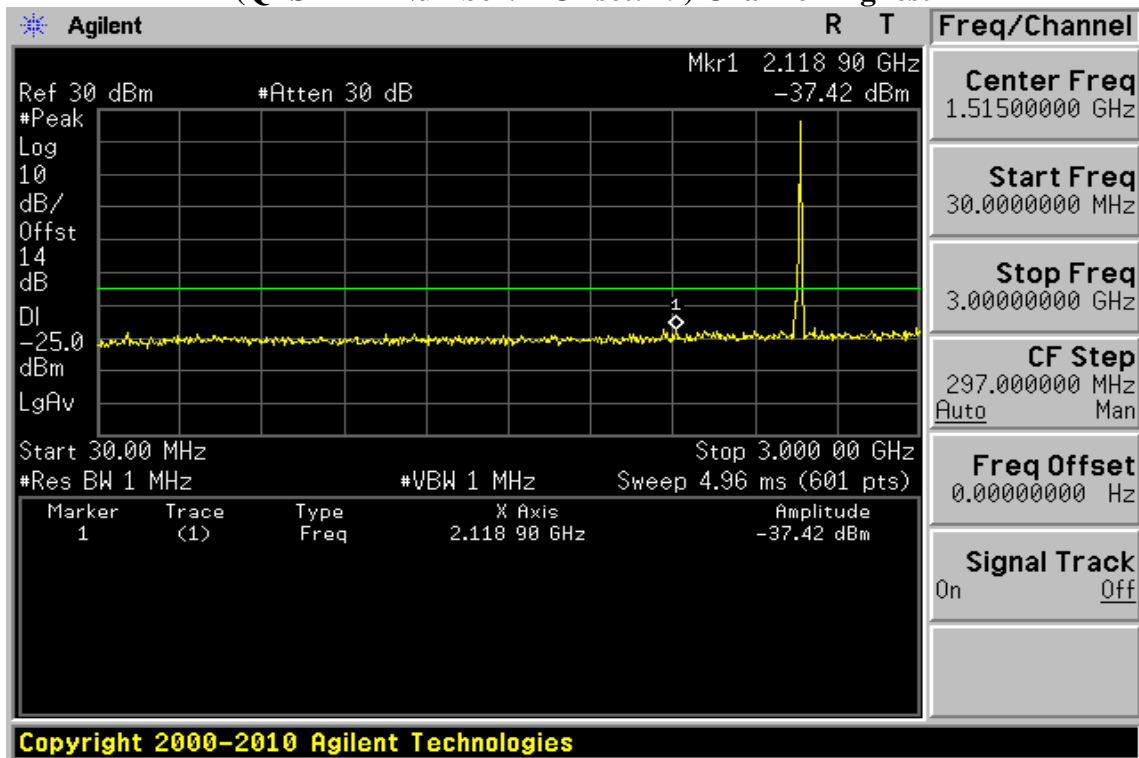


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Figure 10-48: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest



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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 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	---
5010.00	H	---	-13.00	---
7515.00	H	---	-13.00	---
10020.00	H	---	-13.00	---
12525.00	H	---	-13.00	---
15030.00	H	---	-13.00	---
17535.00	H	---	-13.00	---
20040.00	H	---	-13.00	---
22545.00	H	---	-13.00	---
25050.00	H	---	-13.00	---
25545.00	S	-27.68	-13.00	14.68

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	---
25545.00	S	-26.20	-13.00	13.20

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	---
25590.00	S	-26.35	-13.00	13.35
25650.00	H	---	-13.00	---

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

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Figure 10-49: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Lowest

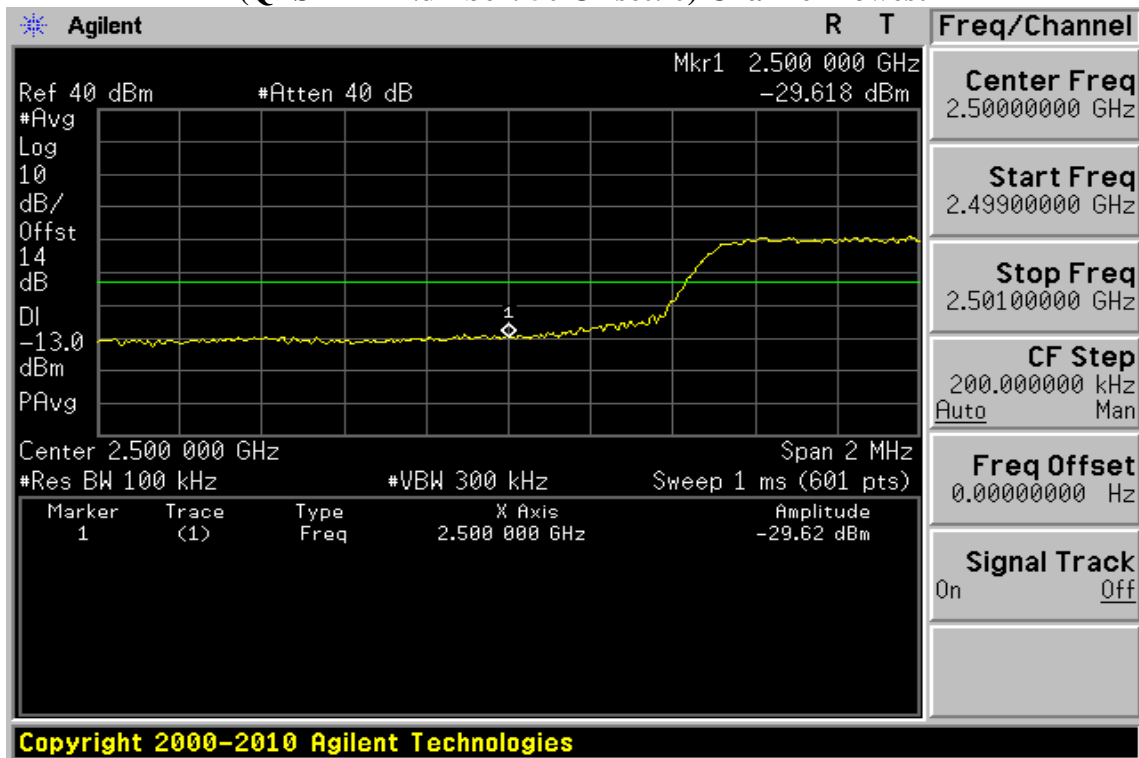
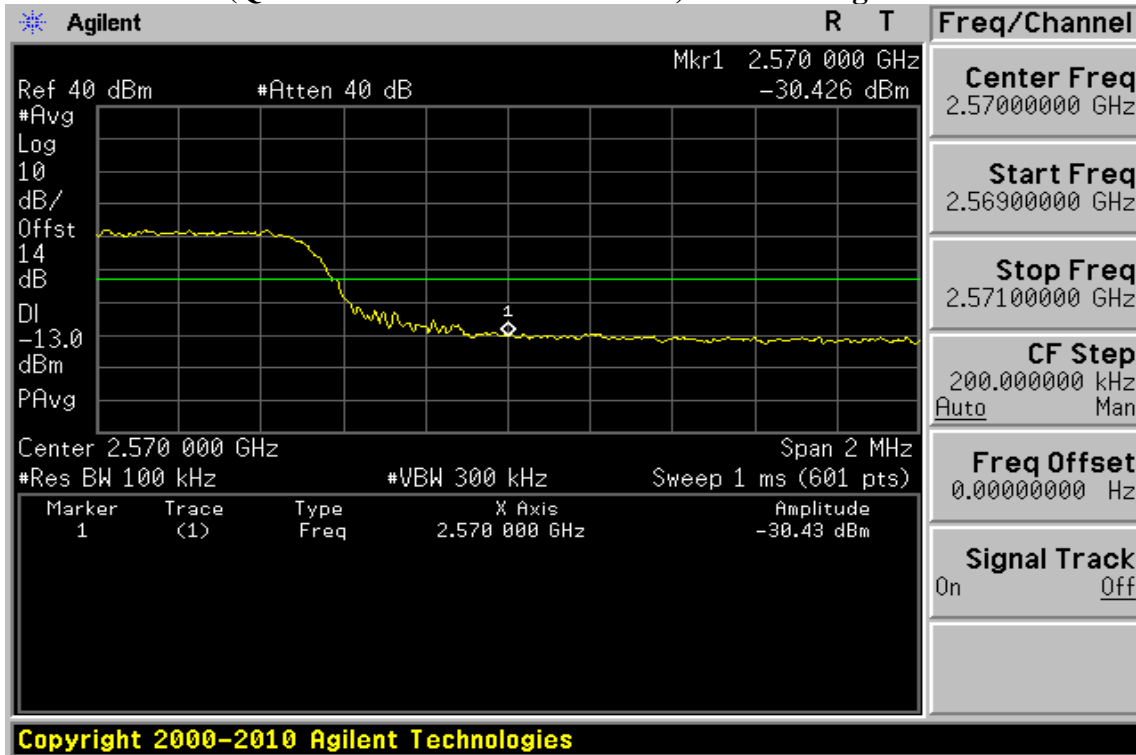


Figure 10-50: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Highest



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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	-29.62	-13.00	16.62
2570.000	-30.43	-13.00	17.43

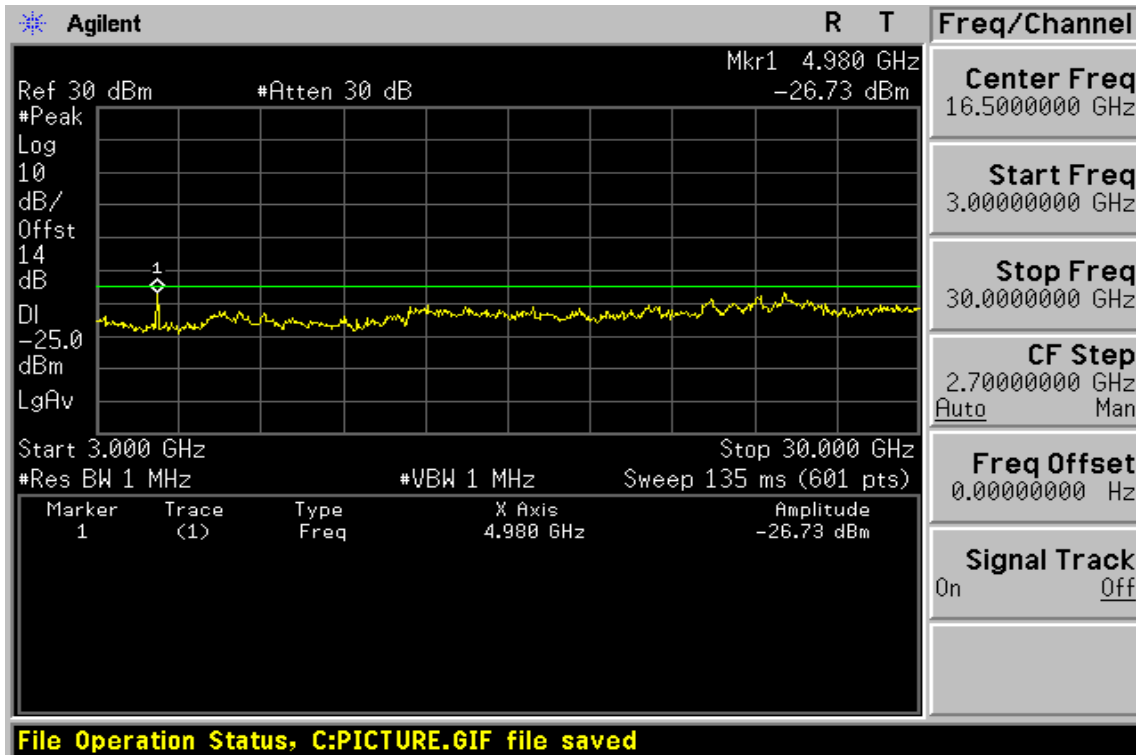
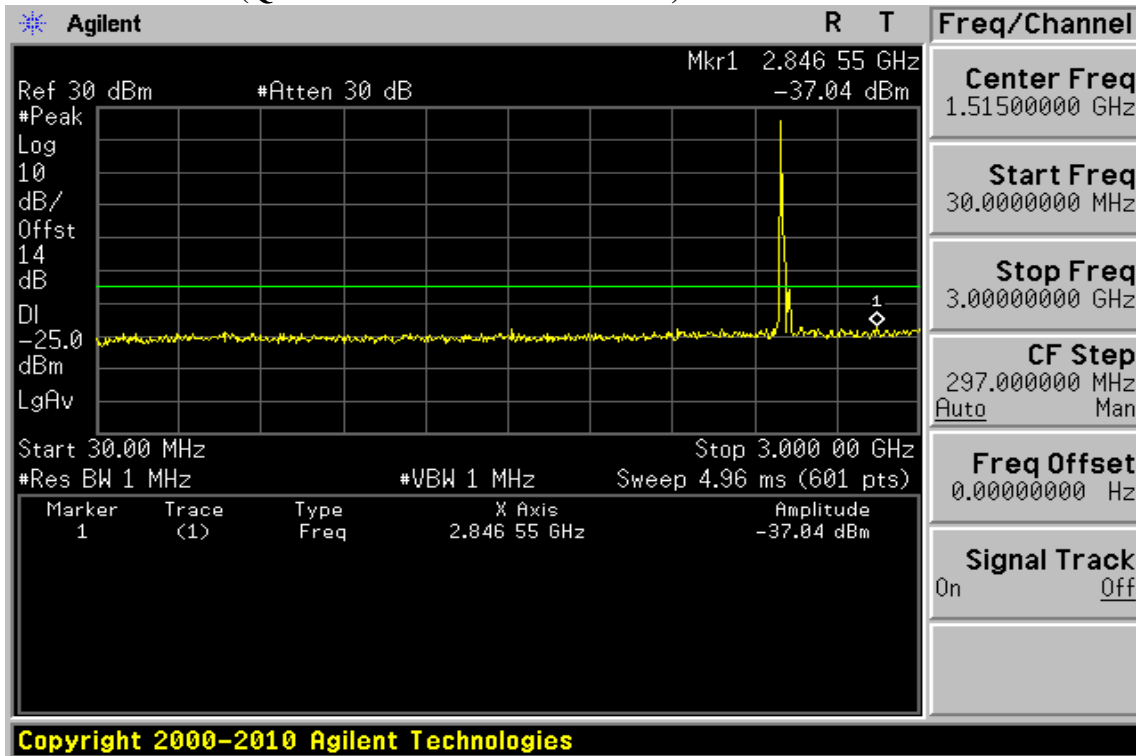
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Figure 10-51: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

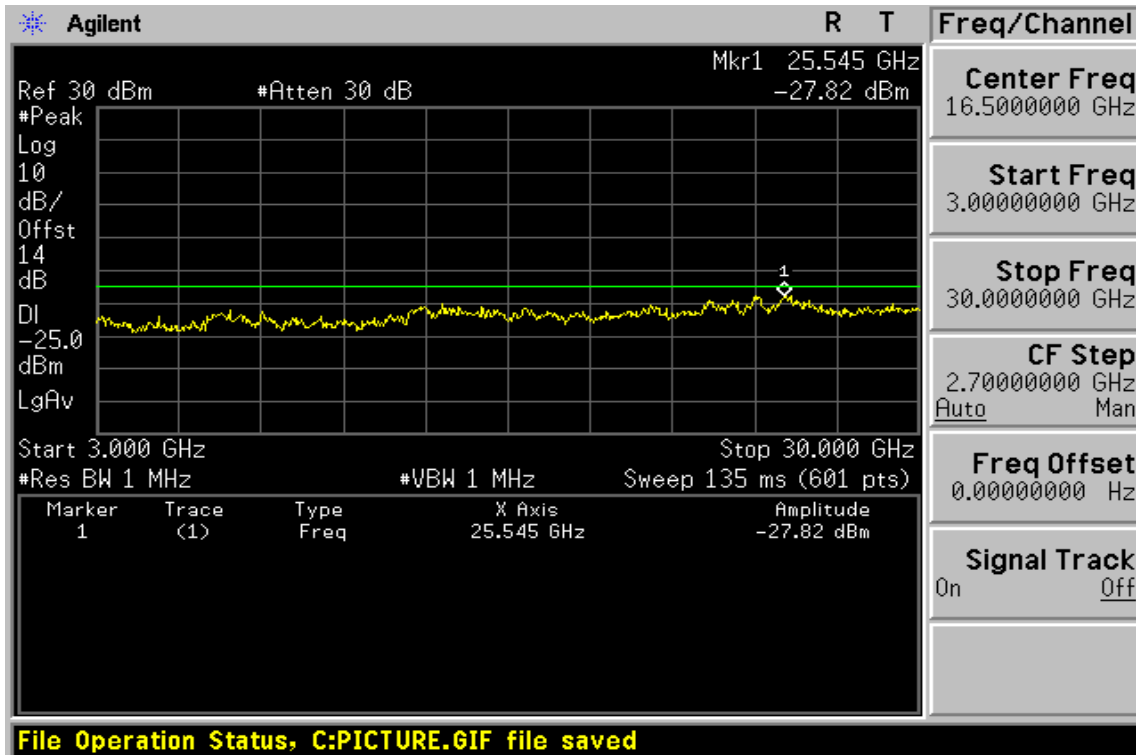
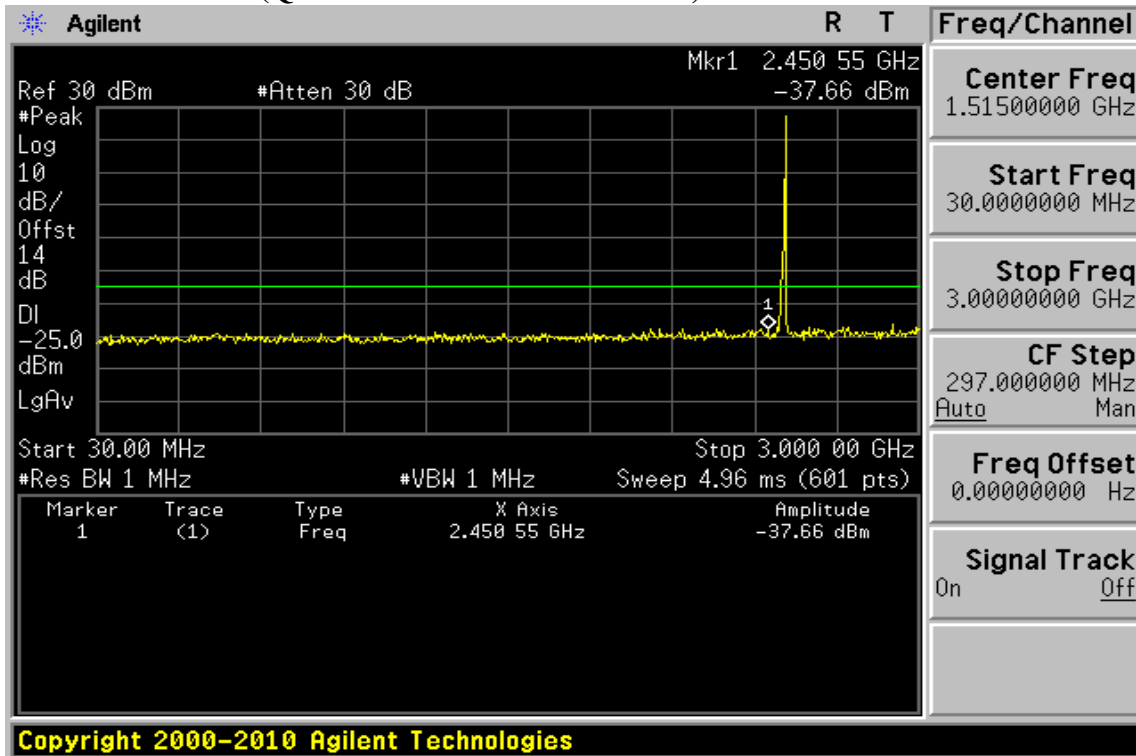


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Figure 10-52: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid

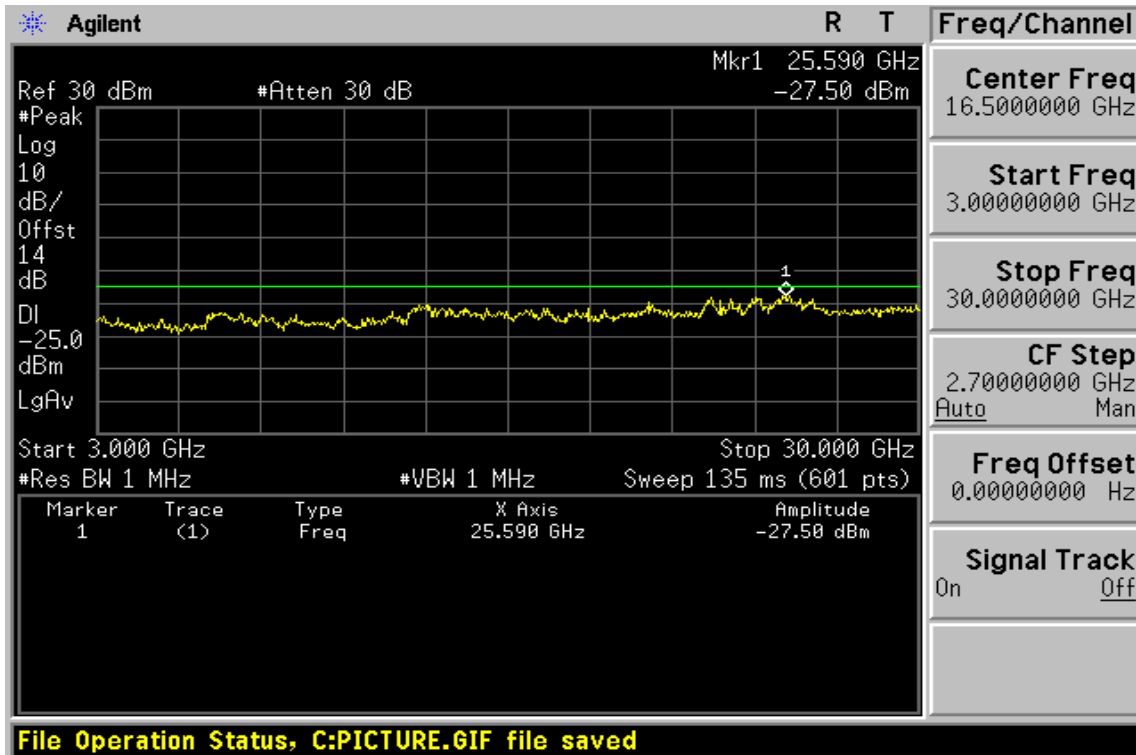
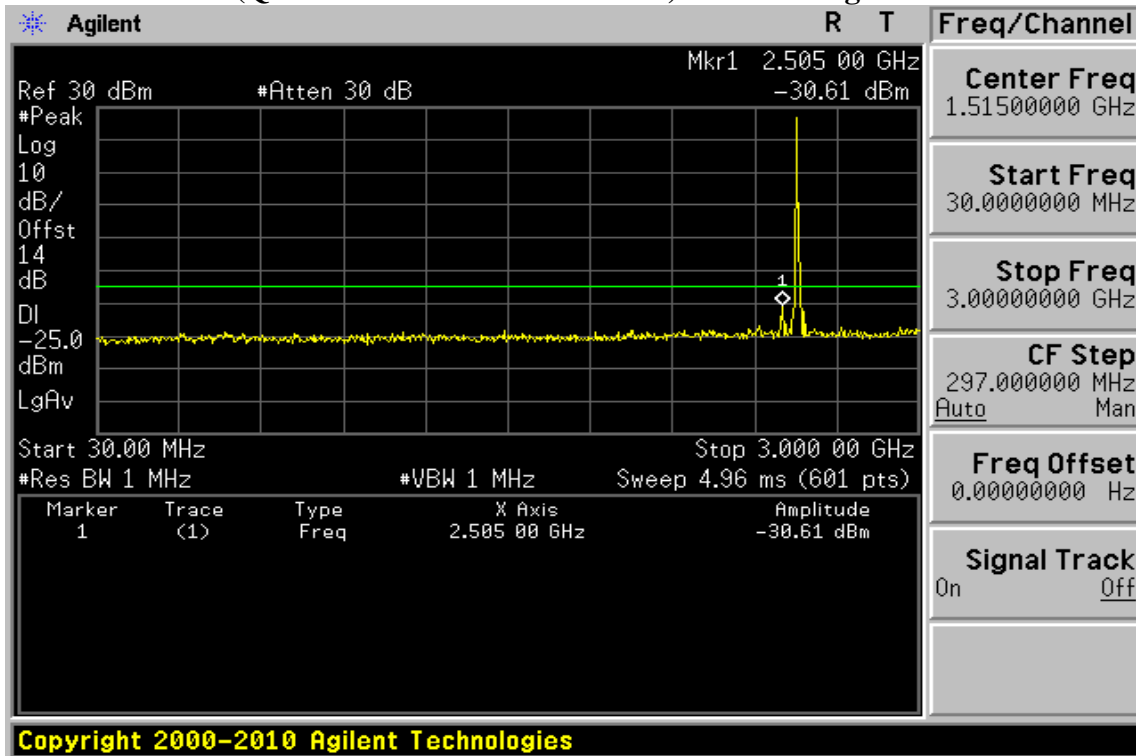


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Figure 10-53: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest



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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	---
4980.00	S	-26.73	-13.00	13.73
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	---

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	-27.82	-13.00	14.82

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	---
25590.00	S	-27.5	-13.00	14.50
25625.00	H	---	-13.00	---

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

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Figure 10-54: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

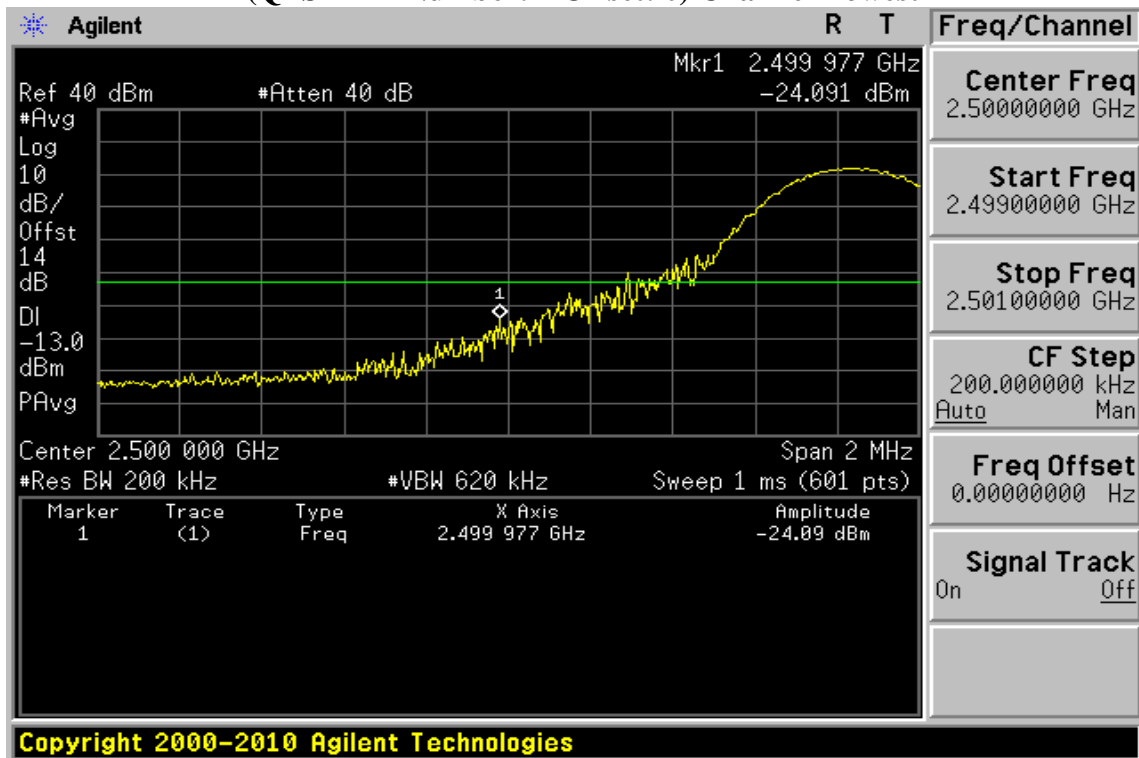
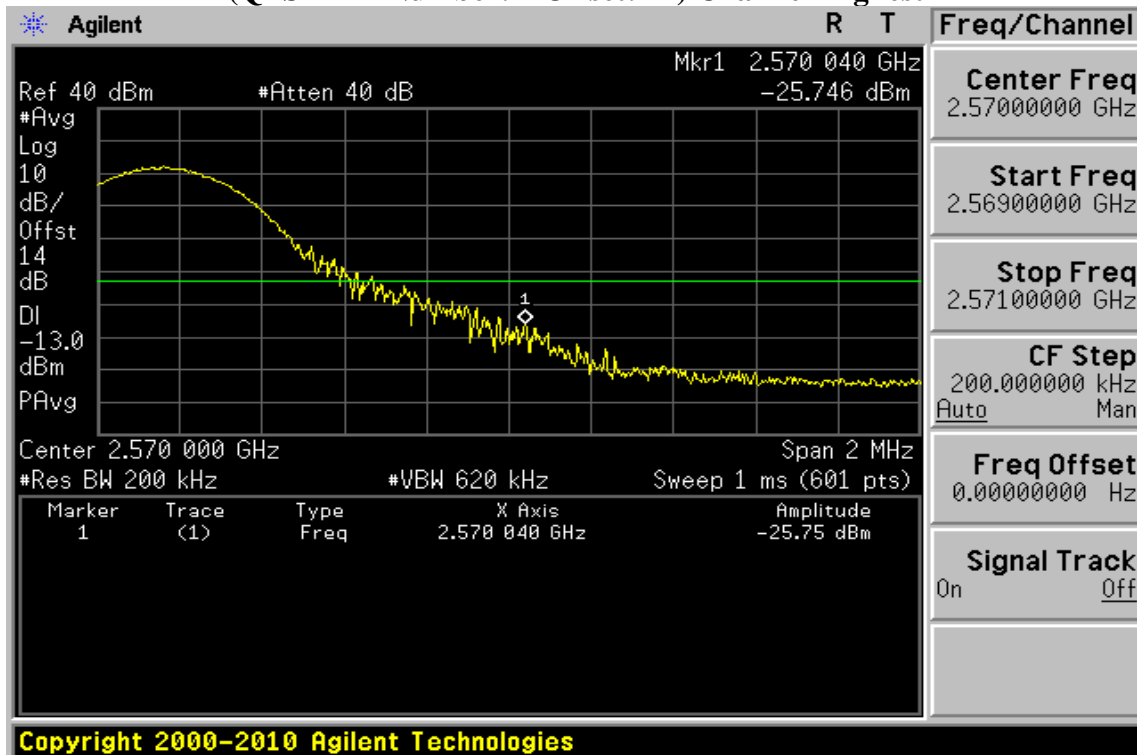


Figure 10-55: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest



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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
2499.977	-24.09	-13.00	11.09
2570.040	-25.75	-13.00	12.75

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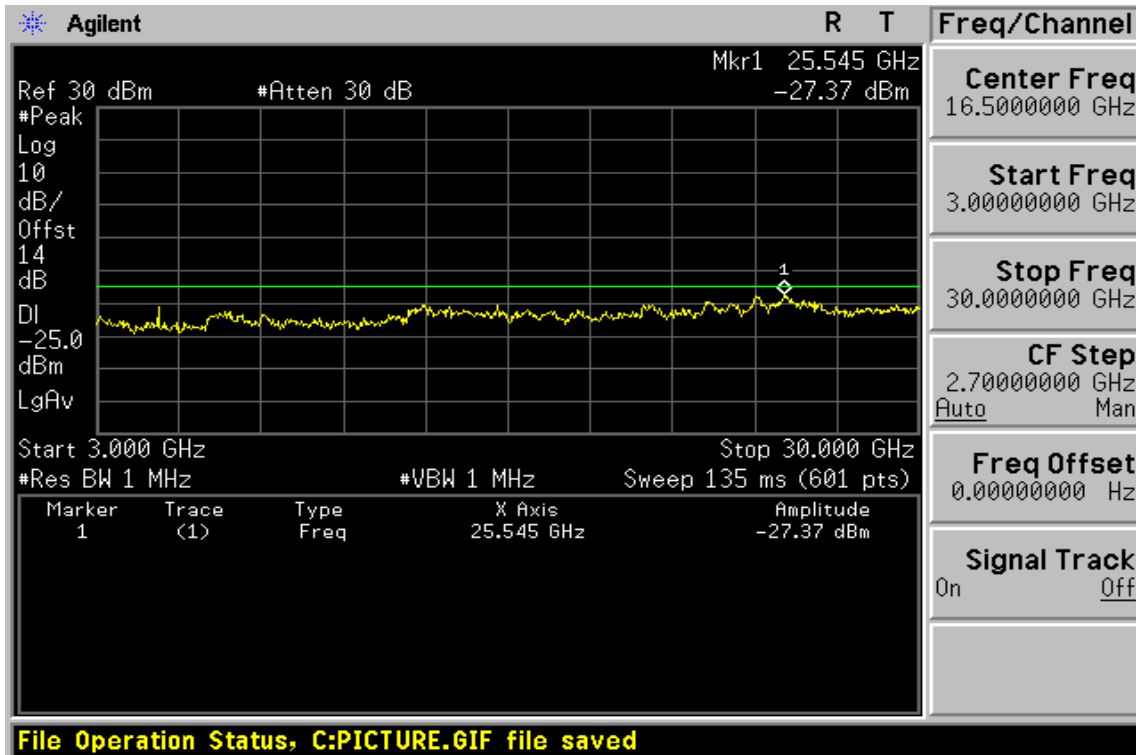
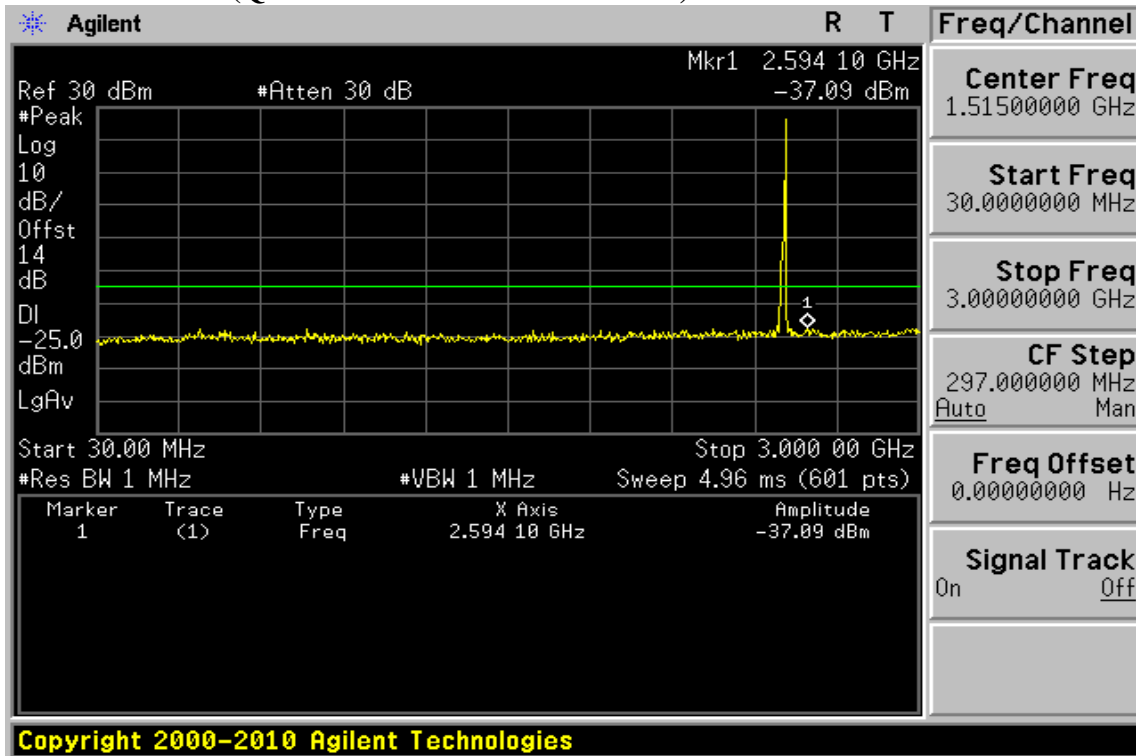
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Figure 10-56: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Lowest



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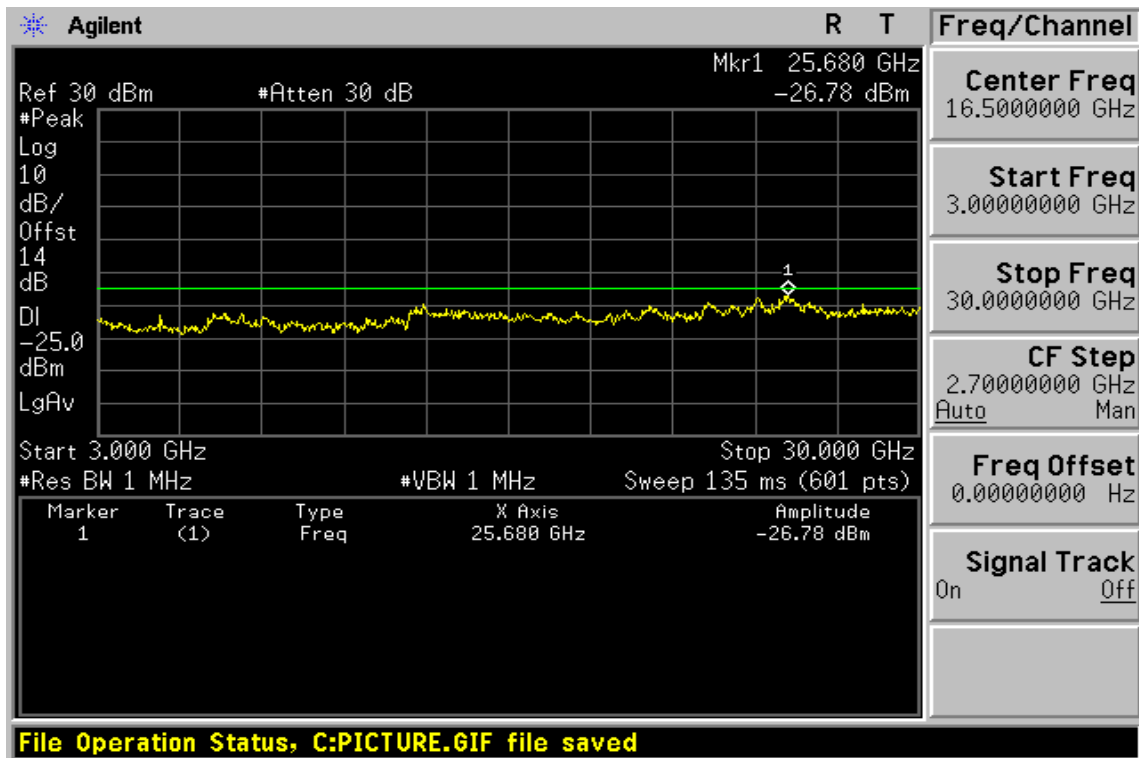
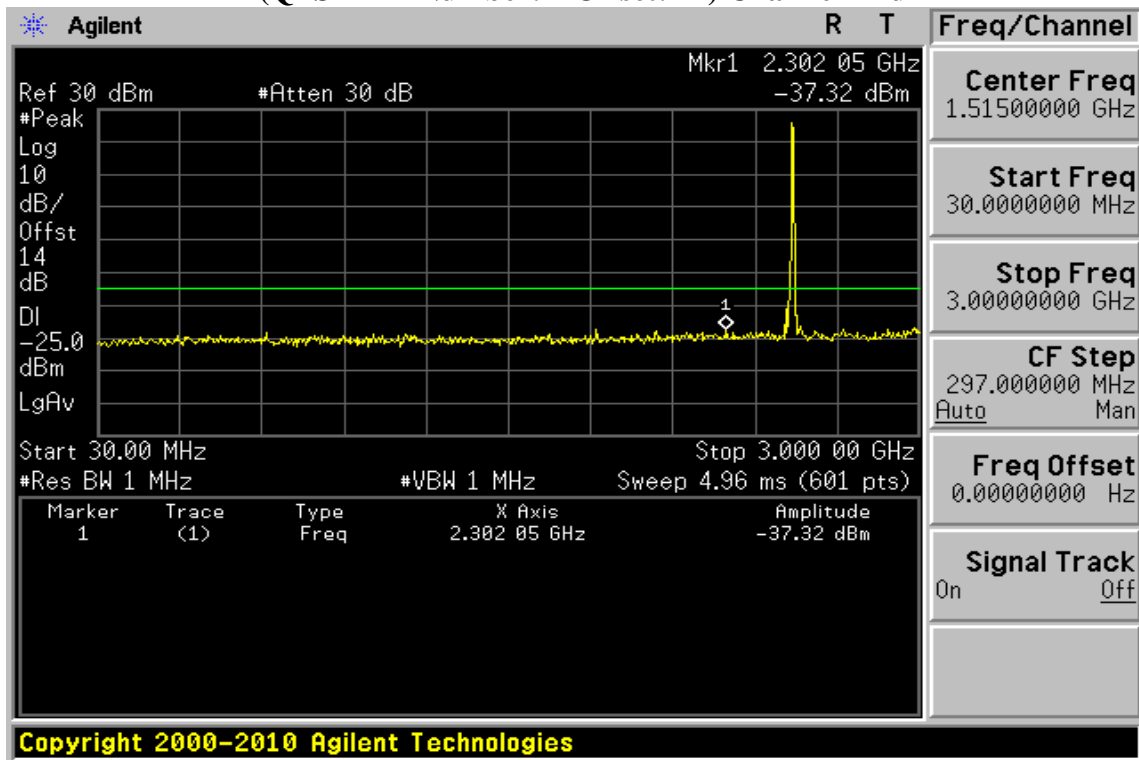
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Figure 10-57: Out of Band emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Mid

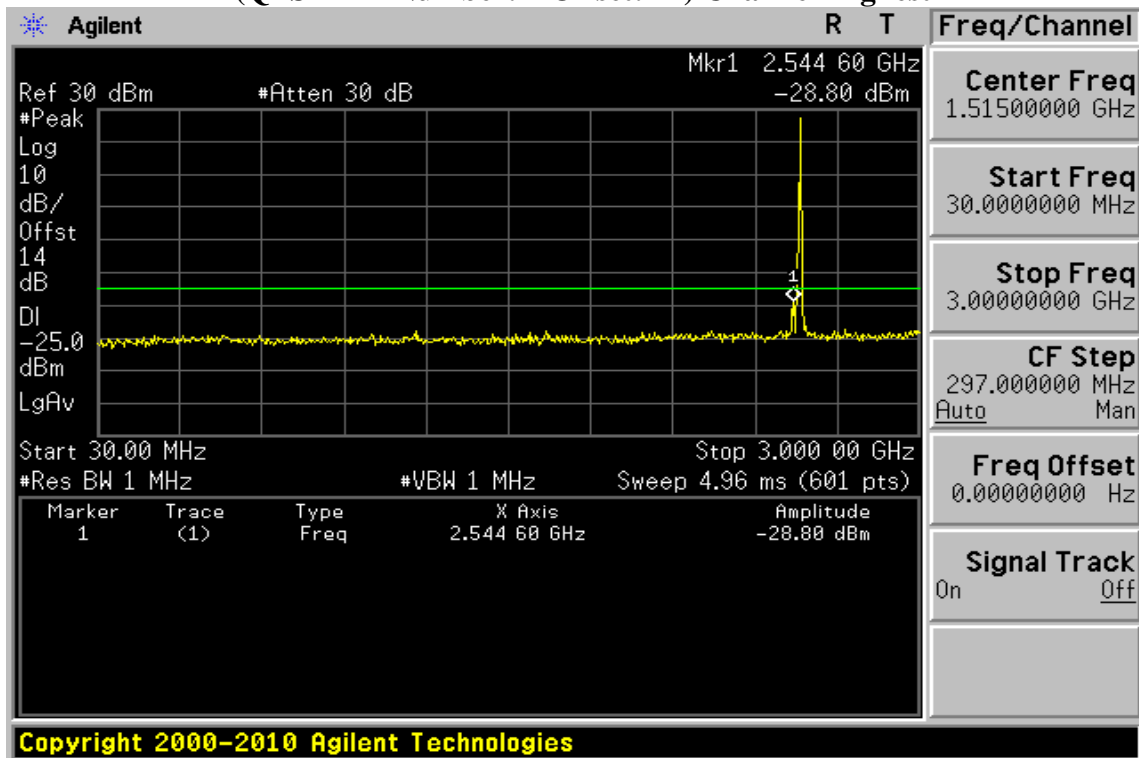


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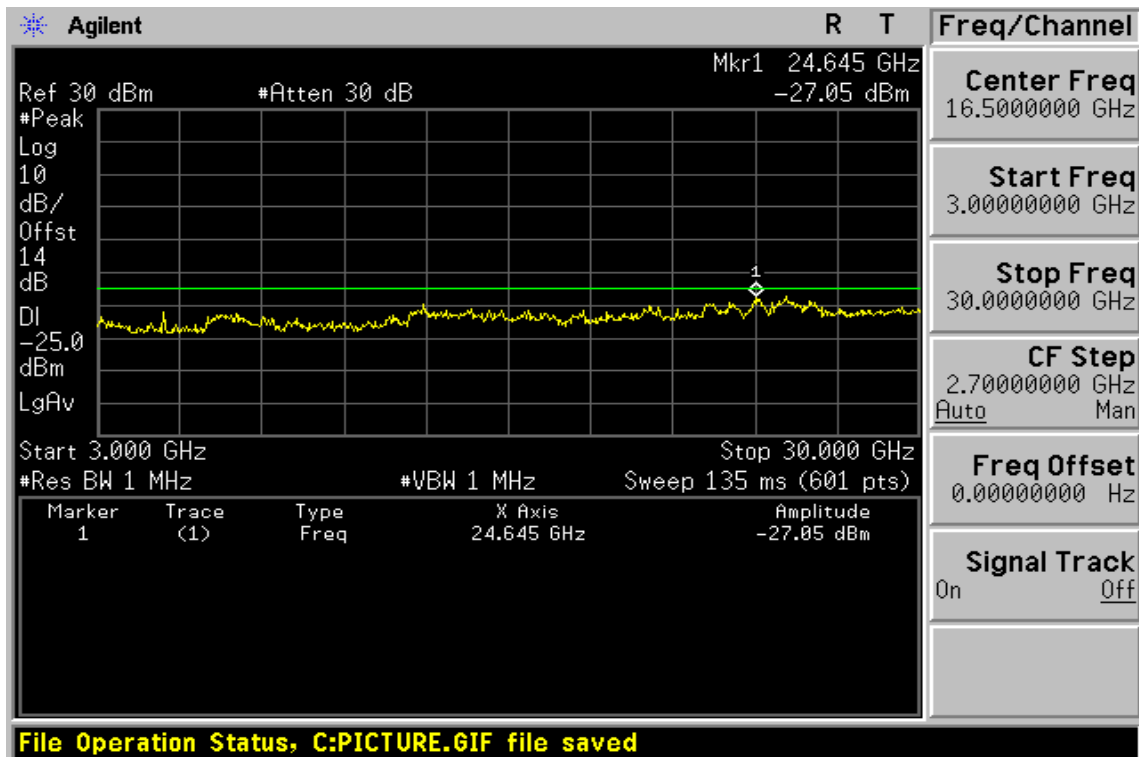
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Figure 10-58: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest



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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	-27.37	-13.00	14.37

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	---
25680.00	S	-26.78	-13.00	13.78

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	---
24645.00	S	-27.05	-13.00	14.05
25625.00	H	---	-13.00	---

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

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Figure 10-59: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Lowest

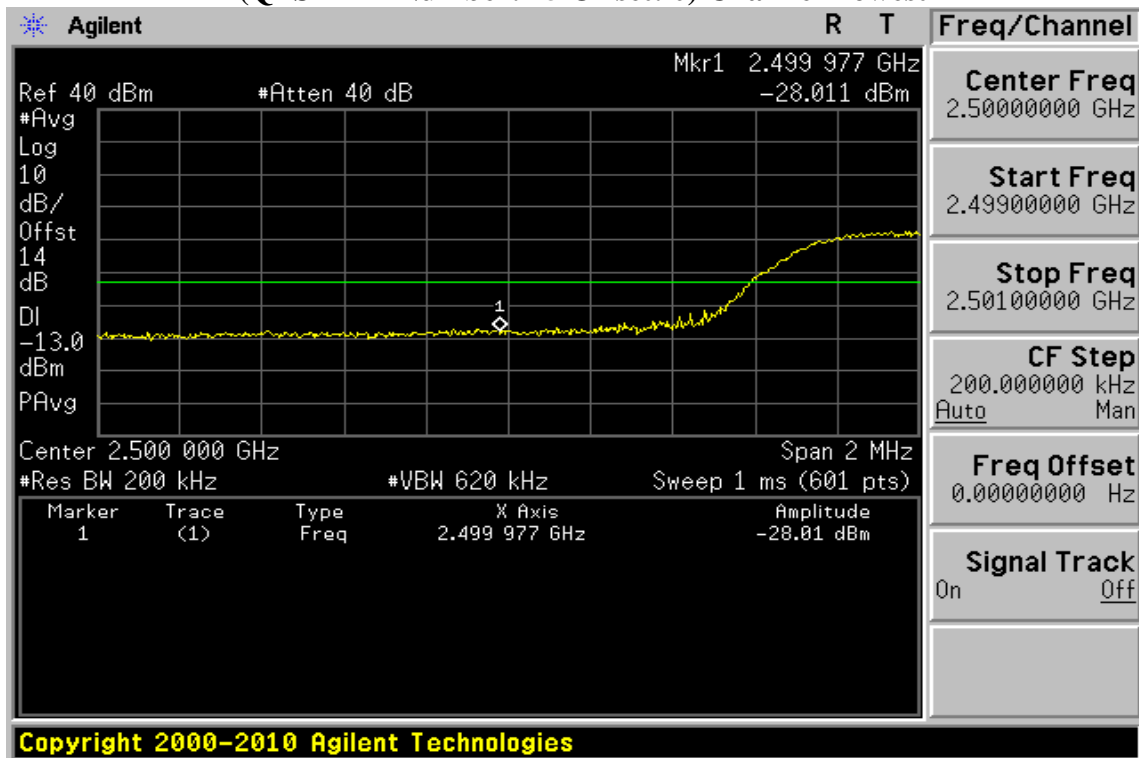
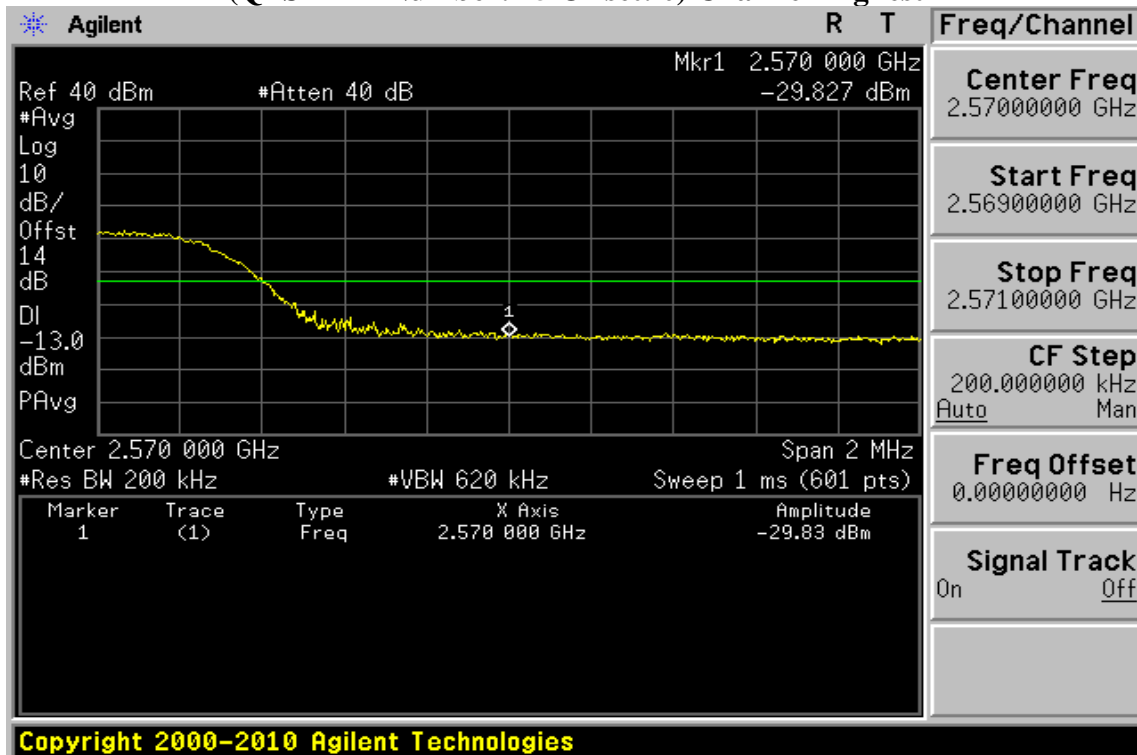


Figure 10-60: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest



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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
2499.977	-28.01	-13.00	15.01
2570.000	-29.83	-13.00	16.83

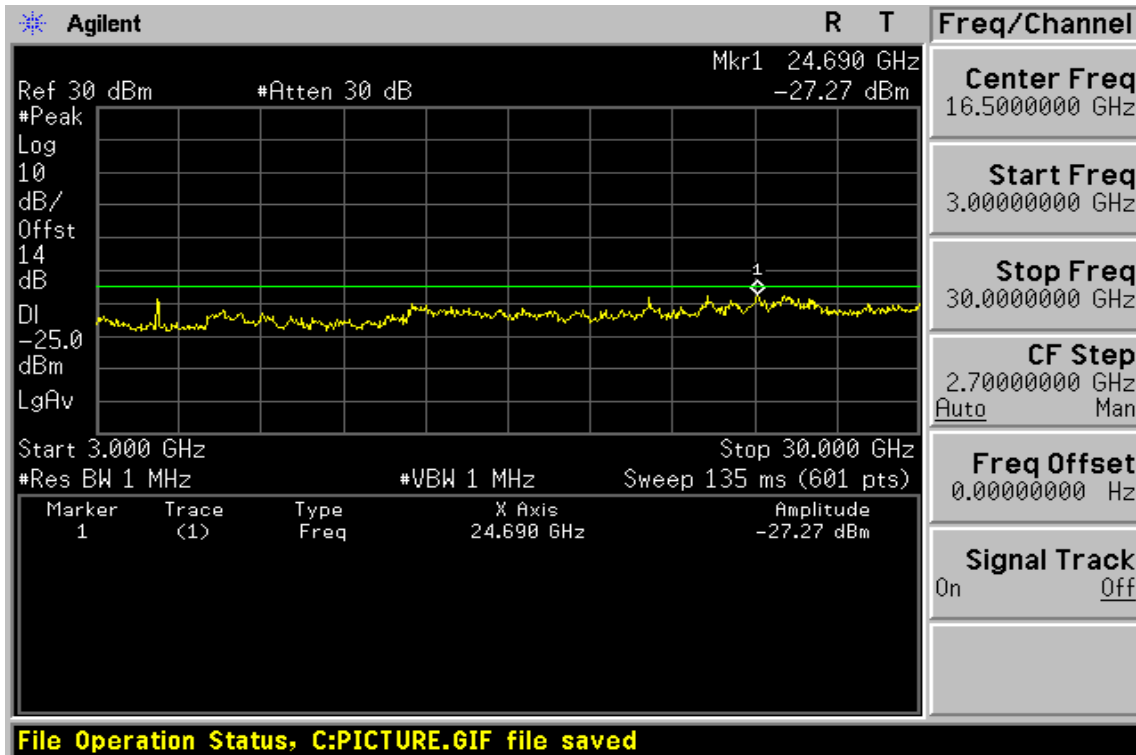
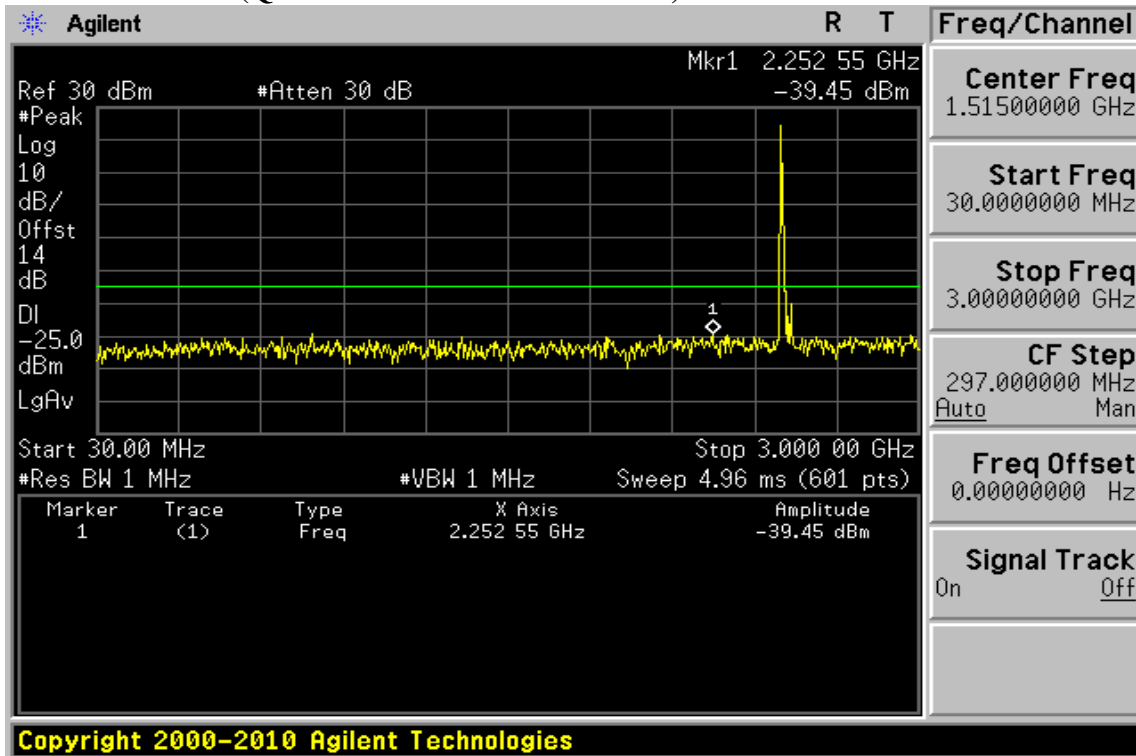
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Figure 10-61: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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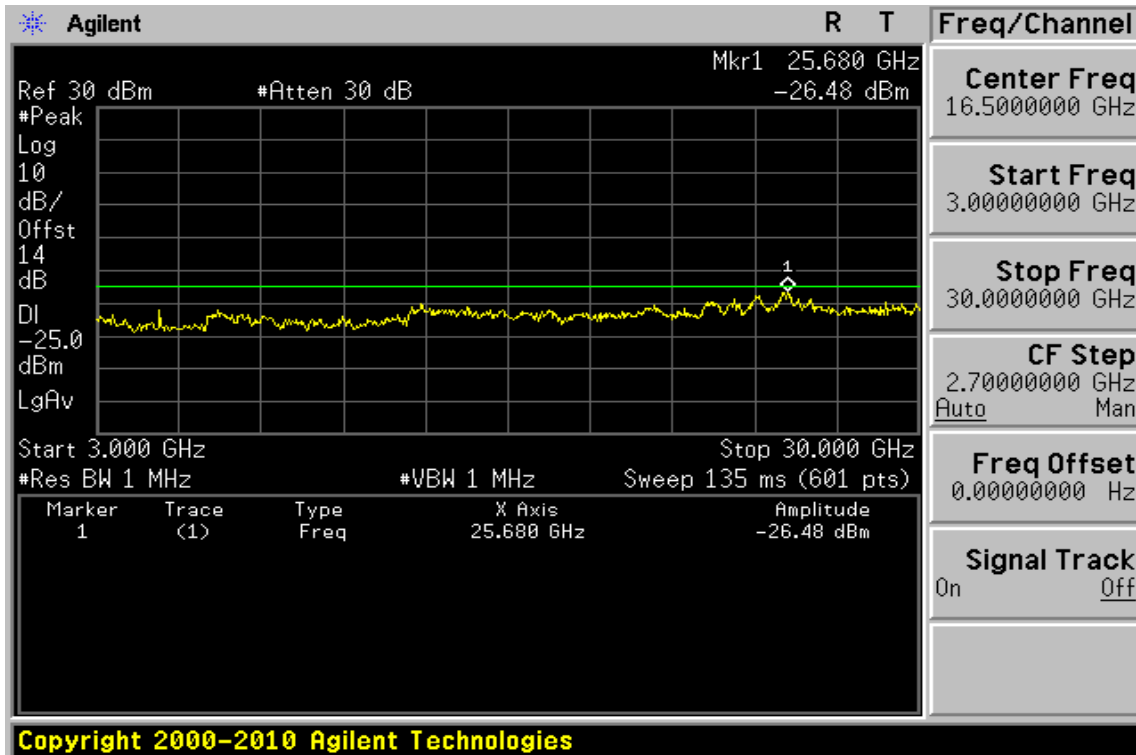
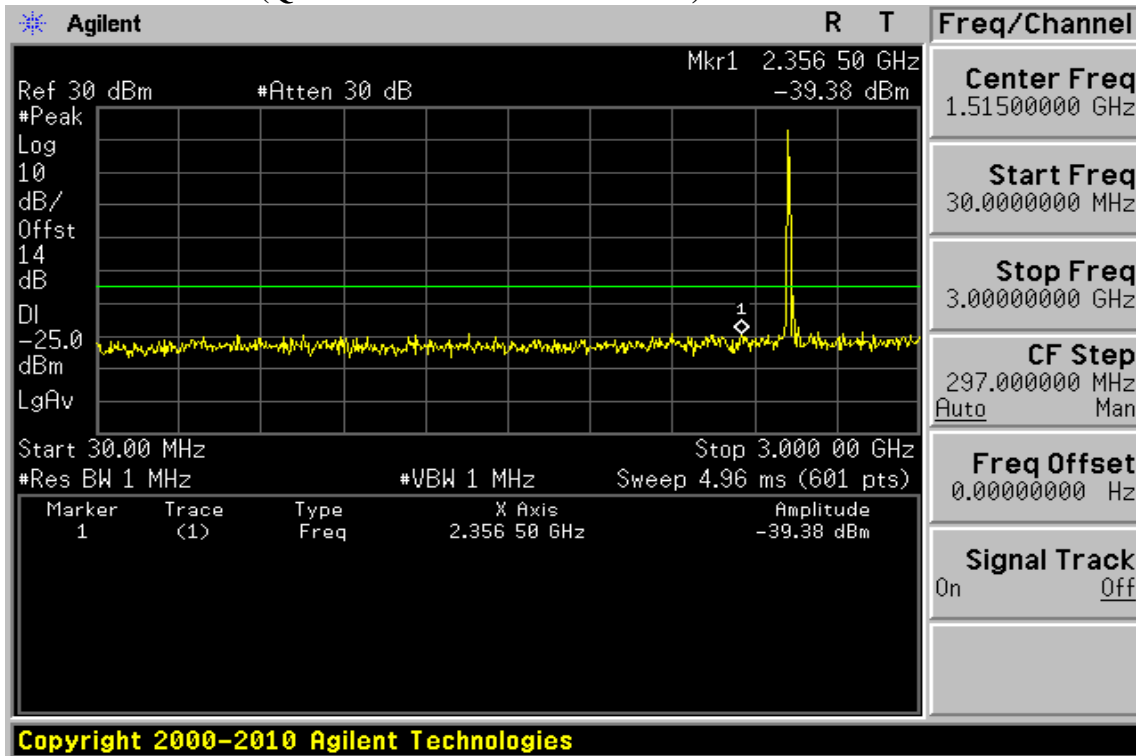
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Figure 10-62: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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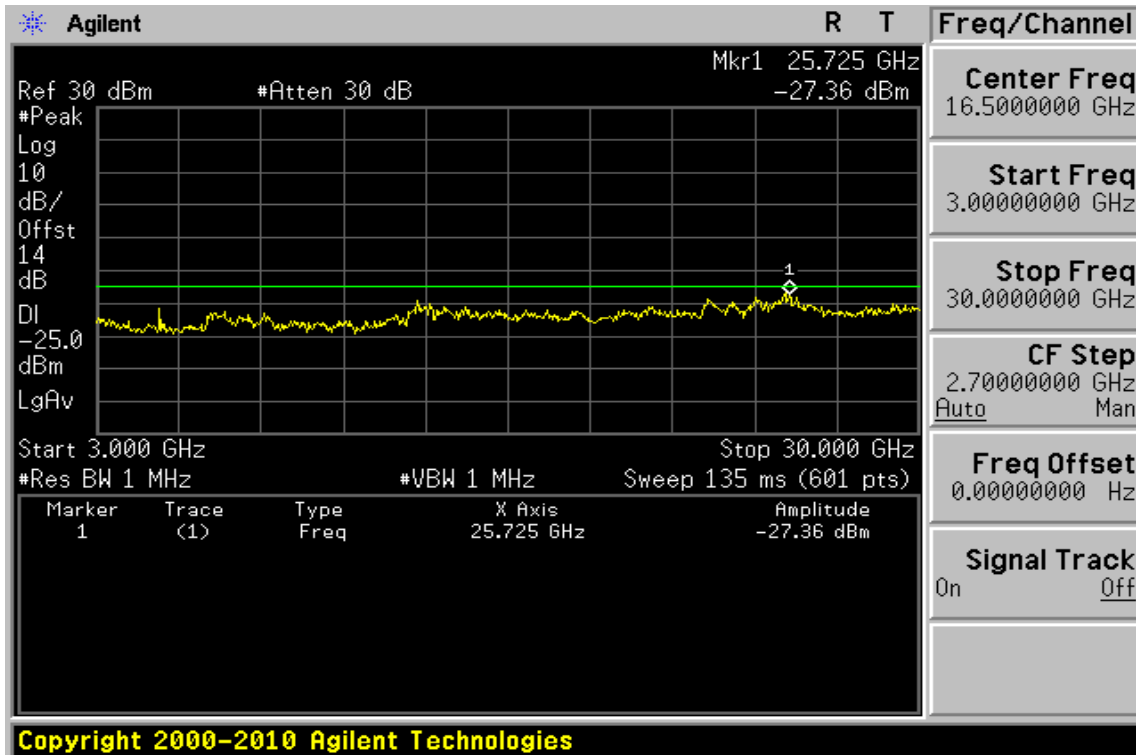
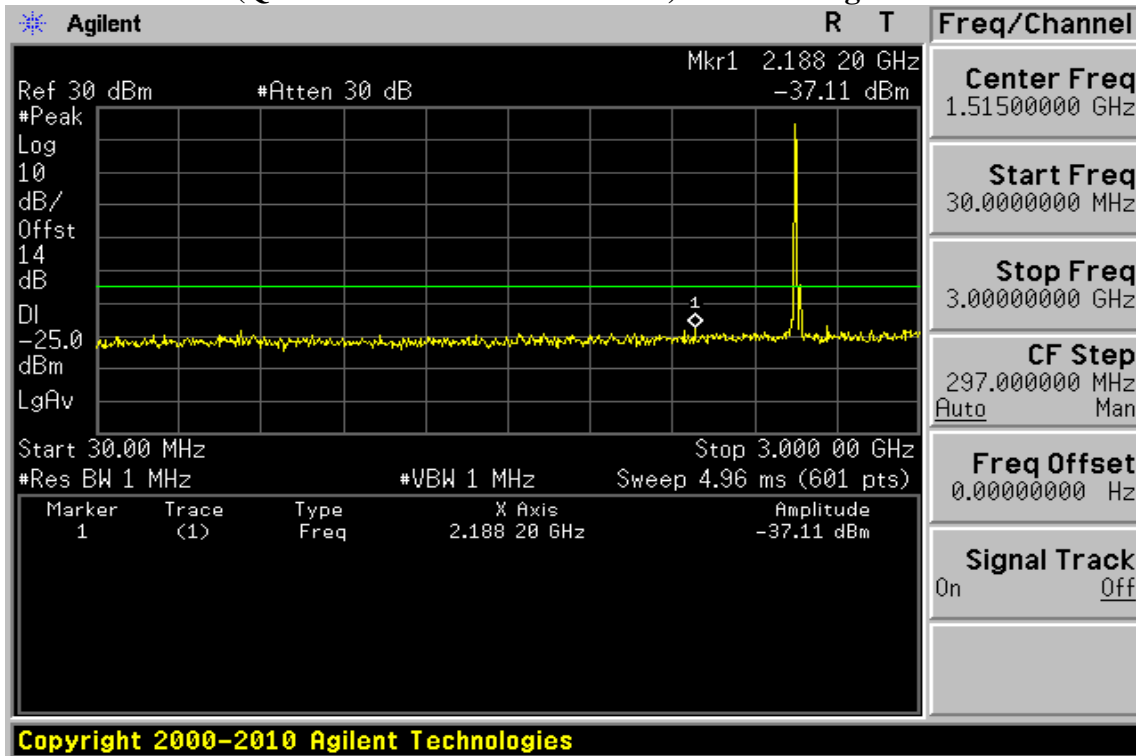
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Figure 10-63: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest



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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	---
24690.00	S	-27.27	-13.00	14.27
25100.00	H	---	-13.00	---

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	---
25680.00	S	-26.48	-13.00	13.48

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	---
25725.00	S	-27.36	-13.00	14.36

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

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Figure 10-64: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

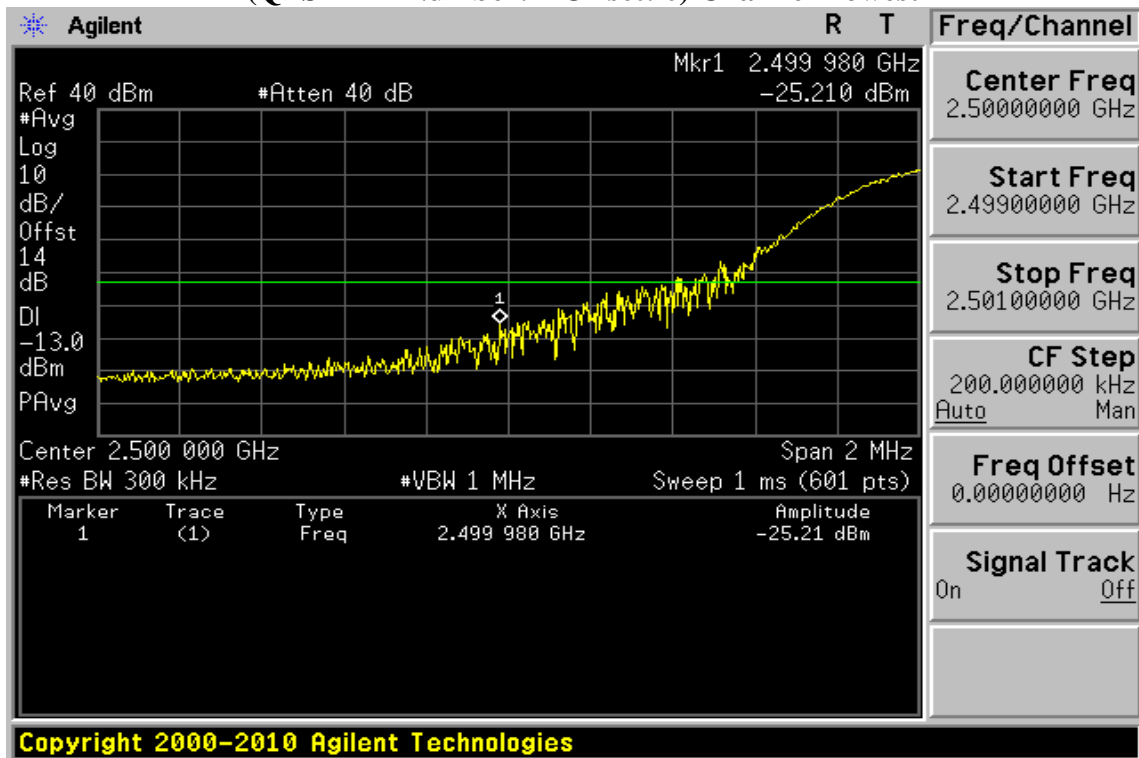
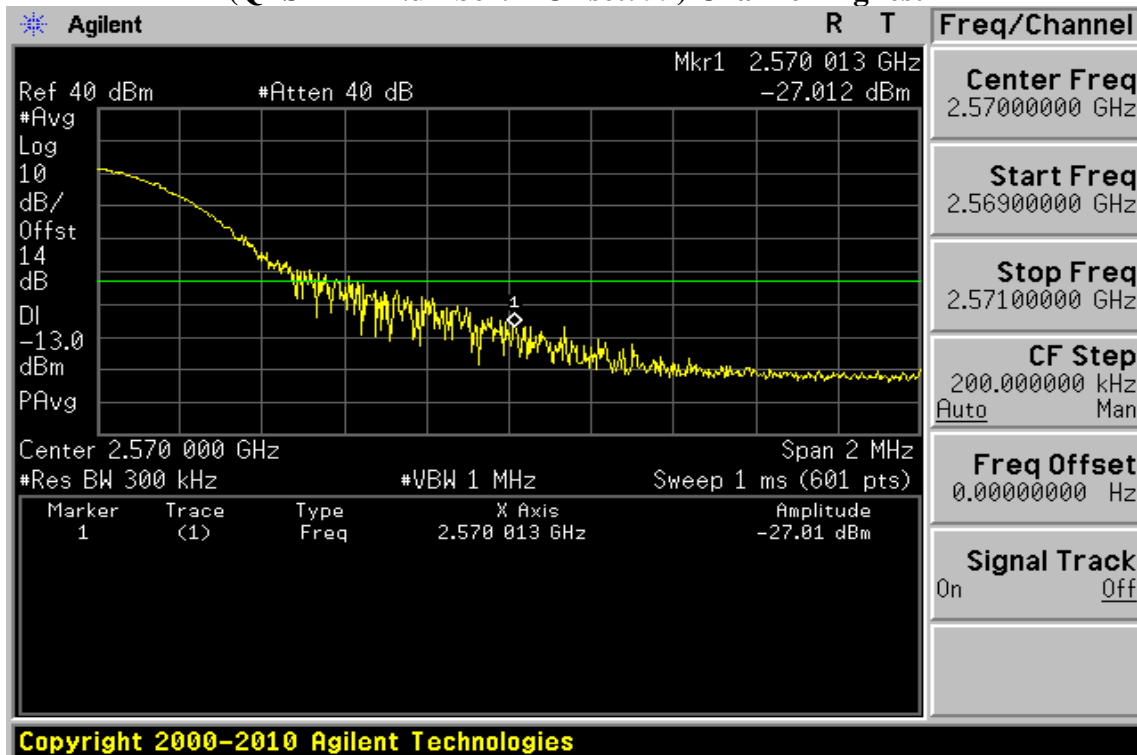


Figure 10-65: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest



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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
2499.988	-25.21	-13.00	12.21
2570.013	-27.01	-13.00	14.01

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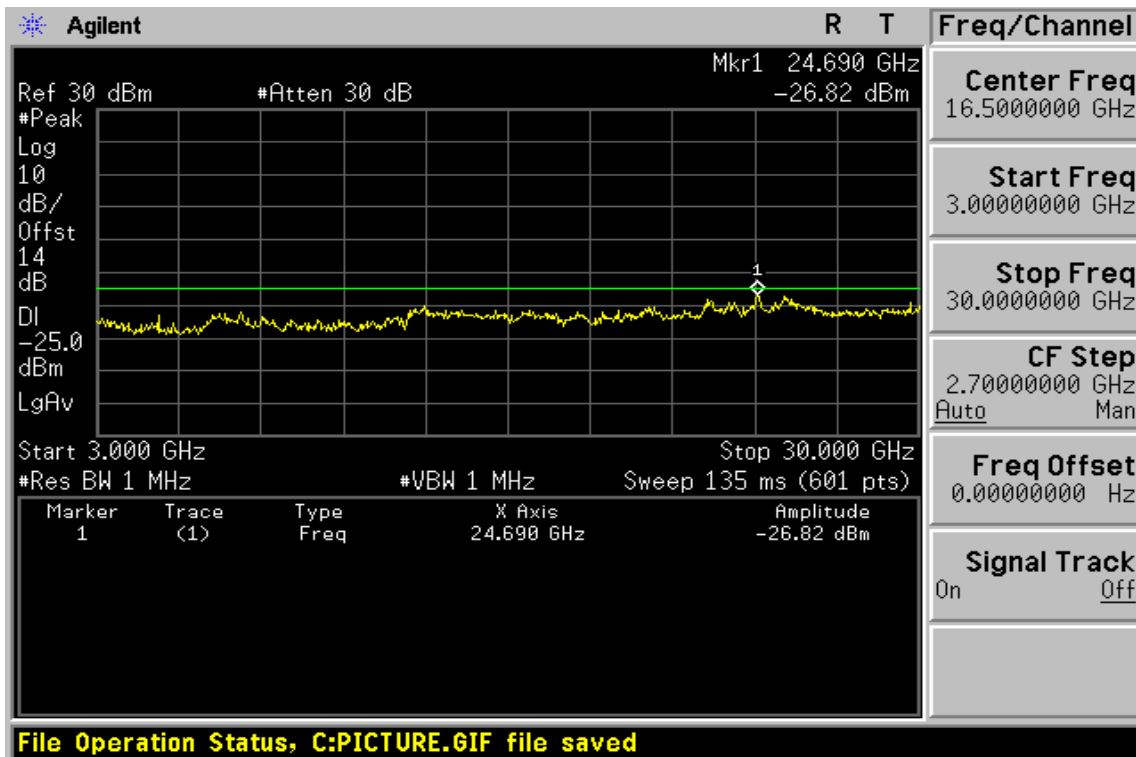
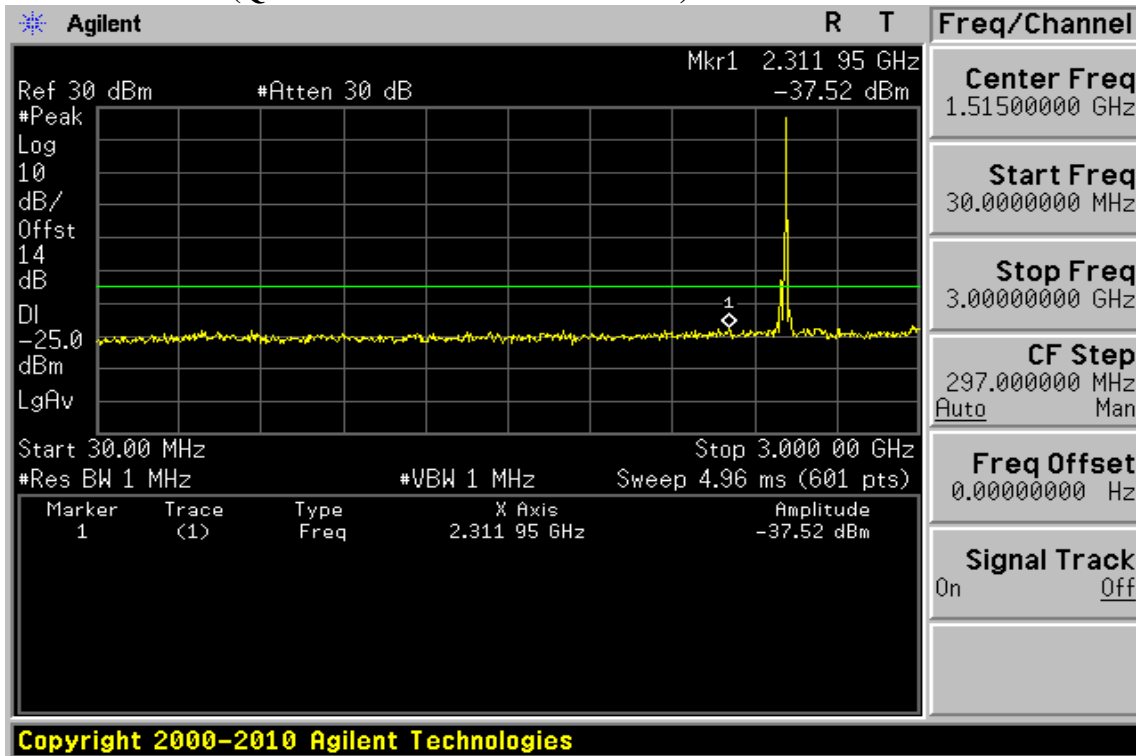
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Figure 10-66: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Lowest



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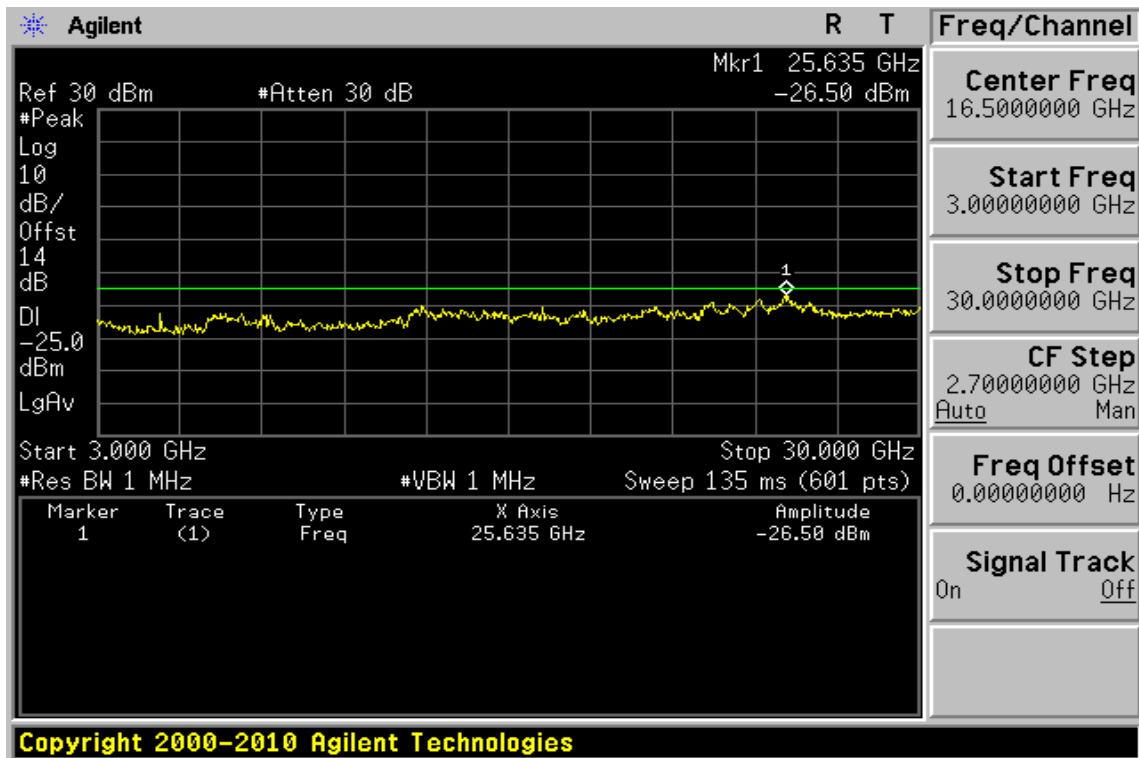
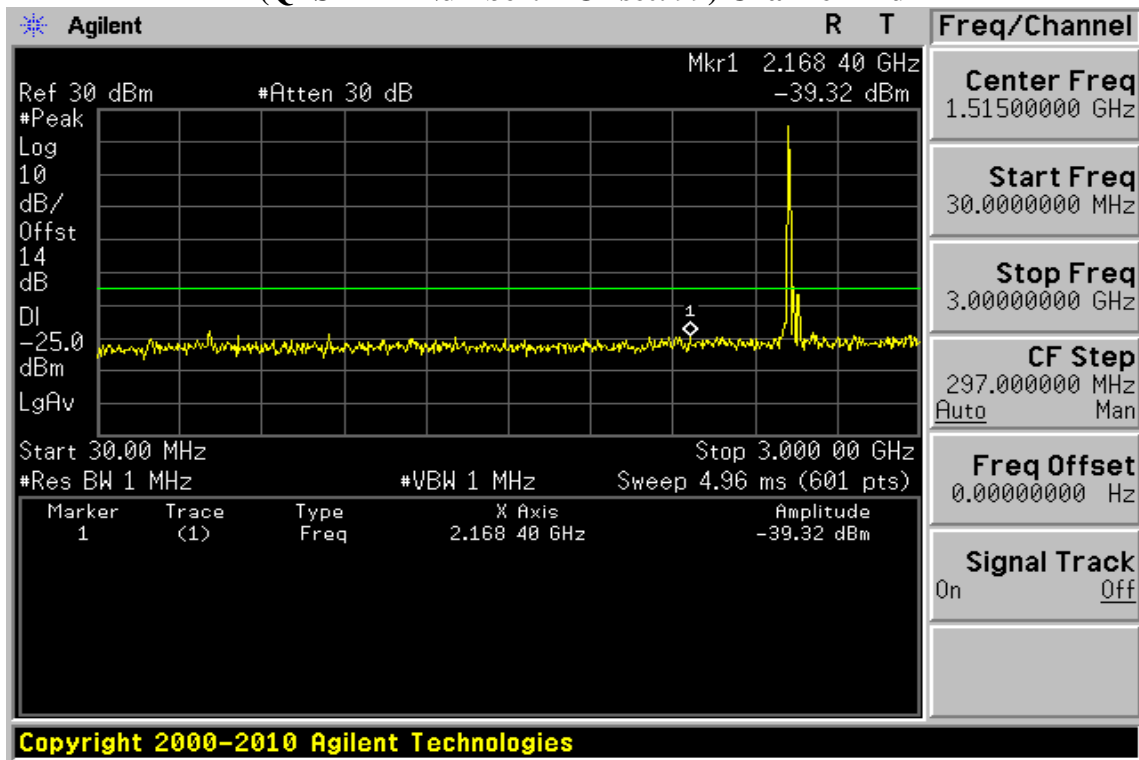
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Figure 10-67: Out of Band emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Mid

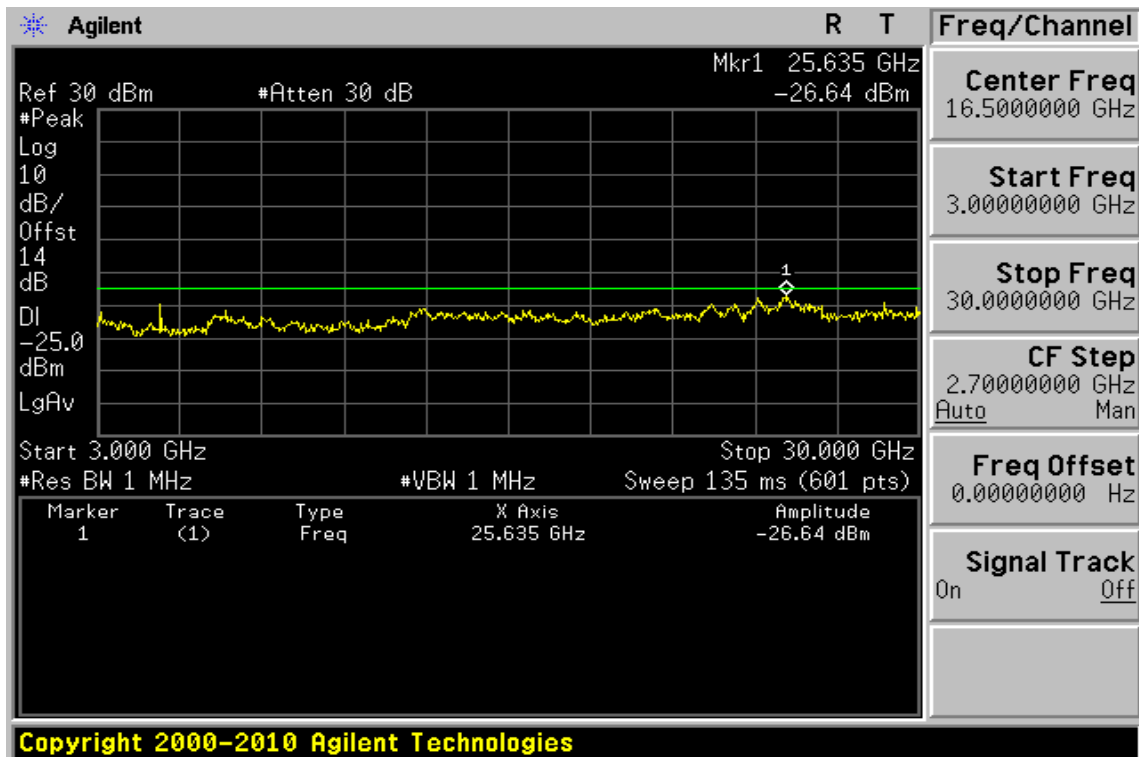
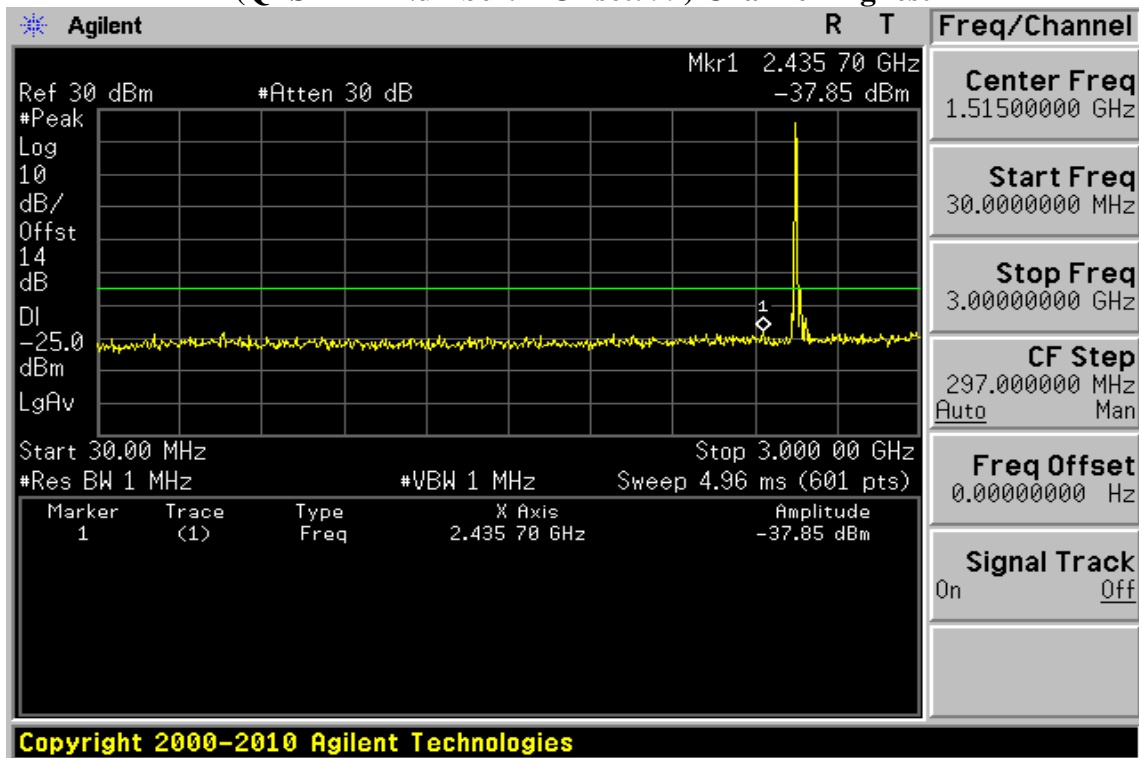


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Figure 10-68: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest



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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	---
24690.00	S	-26.82	-13.00	13.82
25100.00	H	---	-13.00	---

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	-26.5	-13.00	13.50

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	-26.64	-13.00	13.64

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

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Figure 10-69: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Lowest

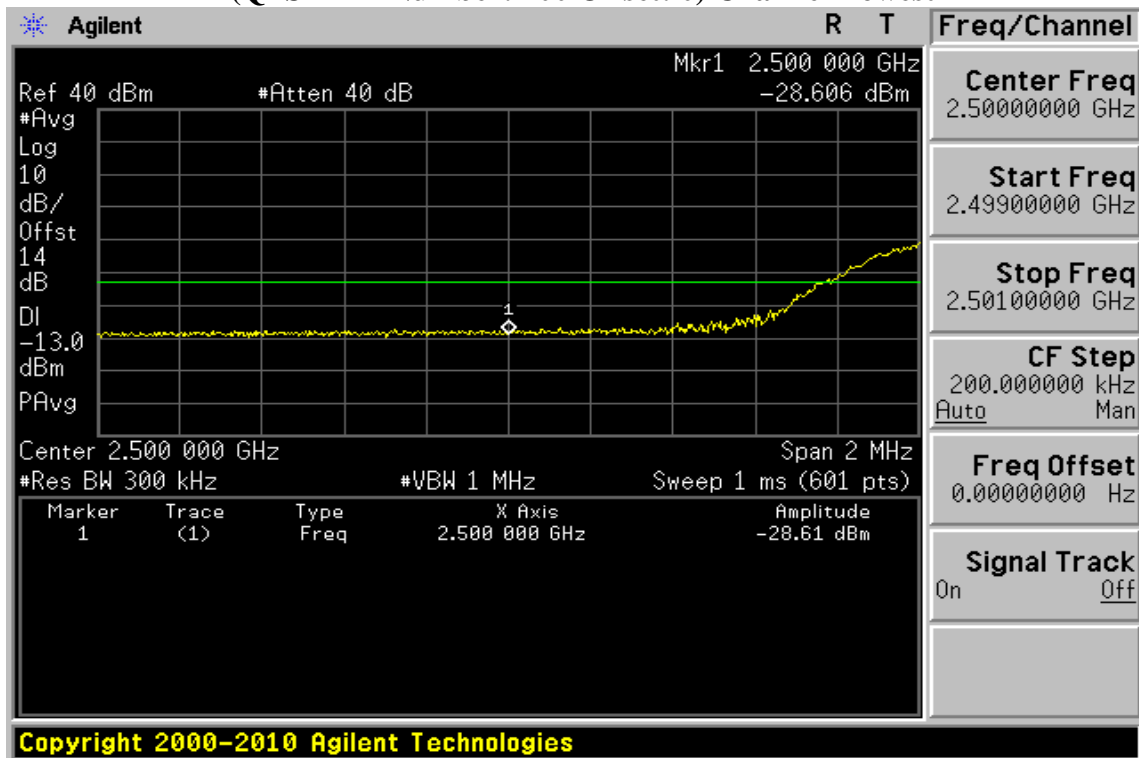
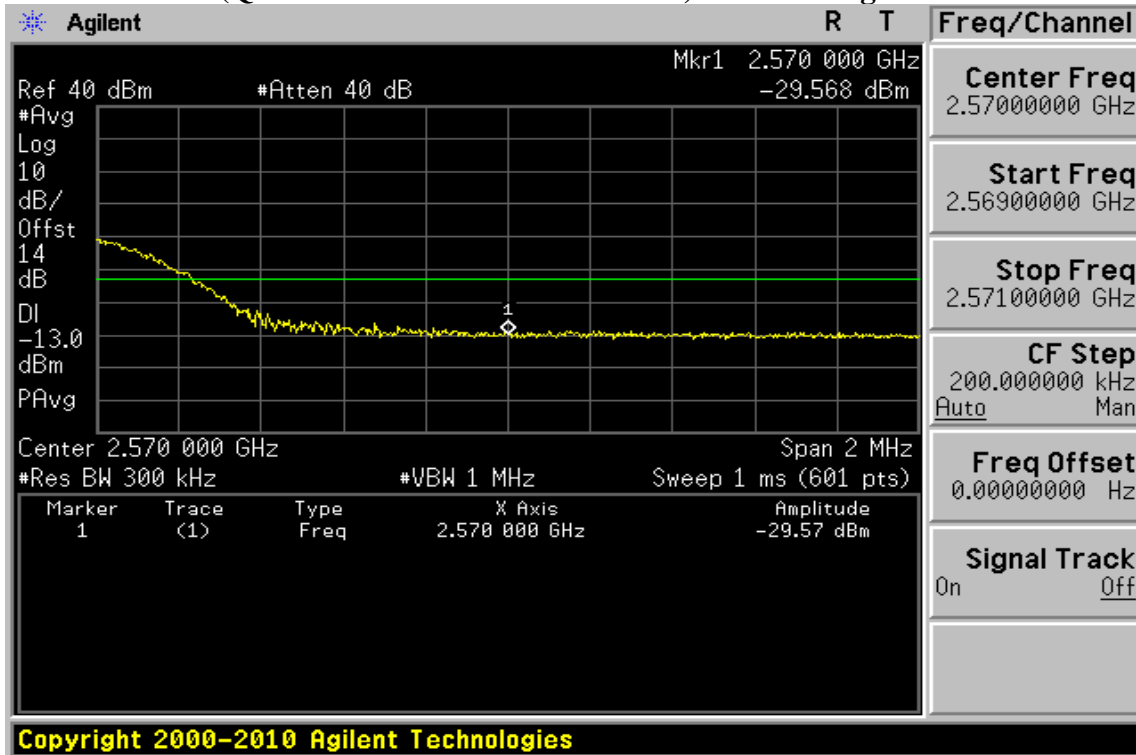


Figure 10-70: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest



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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	-28.61	-13.00	15.61
2570.000	-29.57	-13.00	16.57

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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

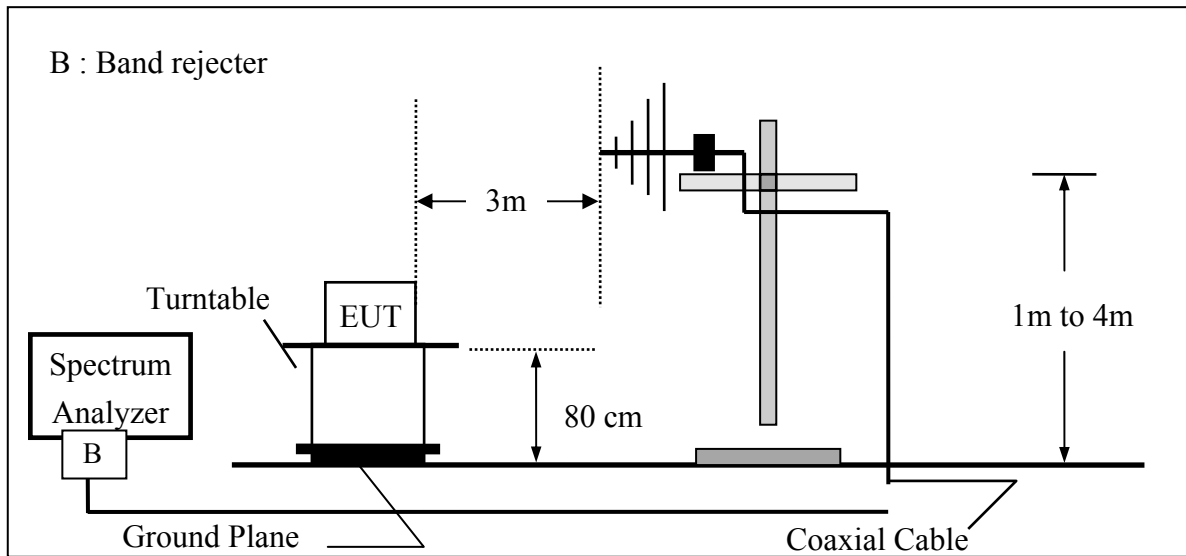
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §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).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz

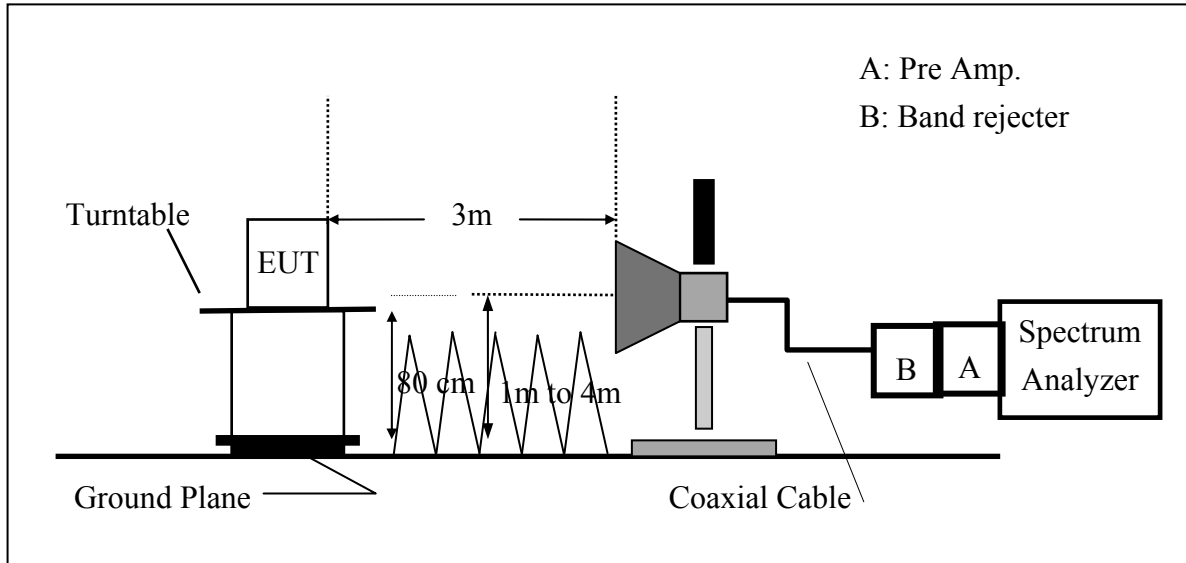


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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

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

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

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

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 321

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 128	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
35.82	S	-50.37	-34.74	-14.83	-0.80	-13.00	-37.37
90.14	S	-53.05	-51.30	-0.55	-1.20	-13.00	-40.05
171.62	S	-67.78	-65.54	-0.80	-1.44	-13.00	-54.78
197.81	S	-70.22	-71.77	3.06	-1.51	-13.00	-57.22
248.25	S	-62.46	-64.19	3.43	-1.70	-13.00	-49.46
373.38	S	-64.56	-66.53	4.00	-2.02	-13.00	-51.56
1648.40	H	-62.63	-61.75	3.54	-4.42	-13.00	-49.63
2472.60	H	---					
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

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

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

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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 128	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.79	S	-36.32	-20.83	-14.69	-0.80	-13.00	-23.32
69.77	S	-55.22	-47.43	-6.79	-1.00	-13.00	-42.22
111.48	S	-61.27	-57.83	-2.20	-1.25	-13.00	-48.27
248.25	S	-64.87	-66.60	3.43	-1.70	-13.00	-51.87
294.81	S	-63.97	-65.64	3.52	-1.85	-13.00	-50.97
373.38	S	-68.19	-70.16	4.00	-2.02	-13.00	-55.19
1648.40	H	-62.65	-61.77	3.54	-4.42	-13.00	-49.65
2472.60	H	---					
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

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

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

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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 190	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
35.82	S	-50.75	-35.13	-14.83	-0.80	-13.00	-37.75
89.17	S	-53.43	-51.45	-0.79	-1.18	-13.00	-40.43
150.28	S	-67.38	-63.71	-2.28	-1.38	-13.00	-54.38
196.84	S	-69.57	-71.07	3.00	-1.50	-13.00	-56.57
252.13	S	-62.06	-63.81	3.47	-1.72	-13.00	-49.06
373.38	S	-65.05	-67.03	4.00	-2.02	-13.00	-52.05
1673.20	H	-63.25	-62.27	3.47	-4.45	-13.00	-50.25
2509.80	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

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

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

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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 190	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
35.82	S	-35.96	-20.34	-14.83	-0.80	-13.00	-22.96
53.28	S	-54.79	-42.15	-11.64	-1.00	-13.00	-41.79
111.48	S	-59.61	-56.16	-2.20	-1.25	-13.00	-46.61
251.16	S	-64.74	-66.49	3.46	-1.71	-13.00	-51.74
291.90	S	-65.51	-67.13	3.47	-1.85	-13.00	-52.51
373.38	S	-68.42	-70.39	4.00	-2.02	-13.00	-55.42
1673.20	H	-63.53	-62.54	3.47	-4.45	-13.00	-50.53
2509.80	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

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

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

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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 251	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.79	S	-50.75	-35.26	-14.69	-0.80	-13.00	-37.75
90.14	S	-53.47	-51.72	-0.55	-1.20	-13.00	-40.47
171.62	S	-67.73	-65.49	-0.80	-1.44	-13.00	-54.73
248.25	S	-62.31	-64.03	3.43	-1.70	-13.00	-49.31
345.25	S	-66.50	-68.64	4.11	-1.97	-13.00	-53.50
373.38	S	-64.86	-66.83	4.00	-2.02	-13.00	-51.86
1697.60	H	-64.36	-63.28	3.40	-4.48	-13.00	-51.36
2546.40	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

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

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

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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 251	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
35.82	S	-35.03	-19.40	-14.83	-0.80	-13.00	-22.03
52.31	S	-53.69	-40.79	-11.90	-1.00	-13.00	-40.69
67.83	S	-56.80	-48.41	-7.38	-1.00	-13.00	-43.80
110.51	S	-61.25	-57.82	-2.19	-1.24	-13.00	-48.25
248.25	S	-64.88	-66.61	3.43	-1.70	-13.00	-51.88
303.54	S	-65.05	-66.83	3.66	-1.88	-13.00	-52.05
1697.60	H	-63.75	-62.67	3.40	-4.48	-13.00	-50.75
2546.40	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

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

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

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 512	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	S	-54.54	-41.06	-12.68	-0.80	-13.00	-41.54
90.14	S	-51.26	-51.66	1.60	-1.20	-13.00	-38.26
164.83	S	-64.37	-63.72	0.77	-1.42	-13.00	-51.37
249.22	S	-63.03	-66.91	5.59	-1.71	-13.00	-50.03
346.22	S	-64.80	-69.11	6.27	-1.97	-13.00	-51.80
770.11	S	-62.58	-65.63	5.94	-2.89	-13.00	-49.58
3700.40	H	-56.28	-58.10	8.62	-6.80	-13.00	-43.28
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

$EIRP (dBm) = SG \text{ Level}(dBm) + Antenna \text{ Gain}(dBi) + Cable \text{ Loss}(dB)$

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

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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 512	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-59.42	-45.94	-12.68	-0.80	-13.00	-46.42
90.14	S	-58.47	-58.87	1.60	-1.20	-13.00	-45.47
159.98	S	-60.55	-59.65	0.51	-1.41	-13.00	-47.55
297.72	S	-64.11	-67.98	5.73	-1.86	-13.00	-51.11
373.38	S	-62.11	-66.24	6.15	-2.02	-13.00	-49.11
402.48	S	-64.42	-68.29	5.96	-2.08	-13.00	-51.42
3700.40	H	-56.47	-58.29	8.62	-6.80	-13.00	-43.47
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 661	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-57.15	-43.68	-12.68	-0.80	-13.00	-44.15
89.17	S	-51.28	-51.46	1.36	-1.18	-13.00	-38.28
165.80	S	-64.04	-63.44	0.82	-1.43	-13.00	-51.04
246.31	S	-63.90	-67.78	5.57	-1.69	-13.00	-50.90
379.20	S	-64.58	-68.66	6.11	-2.03	-13.00	-51.58
754.59	S	-62.84	-65.84	5.85	-2.86	-13.00	-49.84
3760.00	H	-56.67	-58.56	8.74	-6.85	-13.00	-43.67
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 661	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-59.46	-46.12	-12.54	-0.80	-13.00	-46.46
96.93	S	-58.23	-58.24	1.20	-1.20	-13.00	-45.23
159.98	S	-60.92	-60.02	0.51	-1.41	-13.00	-47.92
298.69	S	-65.16	-69.04	5.75	-1.87	-13.00	-52.16
373.38	S	-61.42	-65.54	6.15	-2.02	-13.00	-48.42
402.48	S	-63.98	-67.86	5.96	-2.08	-13.00	-50.98
3760.00	H	-56.13	-58.02	8.74	-6.85	-13.00	-43.13
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 810	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.85	S	-57.89	-44.27	-12.82	-0.80	-13.00	-44.89
90.14	S	-50.74	-51.14	1.60	-1.20	-13.00	-37.74
171.62	S	-64.47	-64.38	1.35	-1.44	-13.00	-51.47
246.31	S	-64.46	-68.33	5.57	-1.69	-13.00	-51.46
379.20	S	-64.90	-68.97	6.11	-2.03	-13.00	-51.90
777.87	S	-63.00	-66.07	5.98	-2.91	-13.00	-50.00
3819.60	H	-55.85	-57.80	8.85	-6.90	-13.00	-42.85
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 810	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.85	S	-61.71	-48.10	-12.82	-0.80	-13.00	-48.71
95.96	S	-58.35	-58.41	1.26	-1.20	-13.00	-45.35
159.98	S	-60.26	-59.36	0.51	-1.41	-13.00	-47.26
264.74	S	-64.26	-68.15	5.65	-1.76	-13.00	-51.26
373.38	S	-61.92	-66.04	6.15	-2.02	-13.00	-48.92
772.05	S	-65.12	-68.17	5.95	-2.89	-13.00	-52.12
3819.60	H	-56.11	-58.07	8.85	-6.90	-13.00	-43.11
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)

Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 20775 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-55.91	-42.57	-12.54	-0.80	-25.00	-30.91
90.14	S	-50.33	-50.73	1.60	-1.20	-25.00	-25.33
294.81	S	-60.88	-64.70	5.67	-1.85	-25.00	-35.88
651.77	S	-63.87	-67.27	6.09	-2.68	-25.00	-38.87
714.82	S	-63.21	-66.41	5.97	-2.77	-25.00	-38.21
924.34	S	-62.79	-65.29	5.80	-3.30	-25.00	-37.79
5005.00	H	-54.39	-56.38	9.90	-7.91	-25.00	-29.39
7507.50	H	---					
10010.00	H	---					
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 20775 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Allen
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
36.79	S	-58.99	-45.64	-12.54	-0.80	-25.00	-33.99
89.17	S	-57.67	-57.84	1.36	-1.18	-25.00	-32.67
288.02	S	-63.76	-67.49	5.56	-1.83	-25.00	-38.76
587.75	S	-66.86	-69.97	5.70	-2.59	-25.00	-41.86
714.82	S	-66.98	-70.17	5.97	-2.77	-25.00	-41.98
916.58	S	-63.26	-65.77	5.80	-3.29	-25.00	-38.26
5005.00	H	-52.84	-54.83	9.90	-7.91	-25.00	-27.84
7507.50	H	---					
10010.00	H	---					
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Allen
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	S	-57.86	-44.38	-12.68	-0.80	-25.00	-32.86
89.17	S	-52.08	-52.25	1.36	-1.18	-25.00	-27.08
297.72	S	-63.34	-67.20	5.73	-1.86	-25.00	-38.34
645.95	S	-63.12	-66.49	6.05	-2.68	-25.00	-38.12
690.57	S	-63.78	-67.09	6.04	-2.73	-25.00	-38.78
941.80	S	-62.58	-65.04	5.78	-3.32	-25.00	-37.58
5070.00	H	-54.68	-56.66	9.96	-7.98	-25.00	-29.68
7605.00	H	---					
10140.00	H	---					
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Allen
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	S	-58.47	-44.99	-12.68	-0.80	-25.00	-33.47
90.14	S	-56.61	-57.02	1.60	-1.20	-25.00	-31.61
345.25	S	-68.55	-72.84	6.26	-1.97	-25.00	-43.55
420.91	S	-68.05	-71.77	5.85	-2.13	-25.00	-43.05
726.46	S	-67.14	-70.27	5.92	-2.80	-25.00	-42.14
948.59	S	-62.55	-65.00	5.78	-3.33	-25.00	-37.55
5070.00	H	-53.54	-55.52	9.96	-7.98	-25.00	-28.54
7605.00	H	---					
10140.00	H	---					
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 21425 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	S	-57.50	-44.03	-12.68	-0.80	-25.00	-32.50
90.14	S	-51.67	-52.07	1.60	-1.20	-25.00	-26.67
294.81	S	-61.23	-65.04	5.67	-1.85	-25.00	-36.23
645.95	S	-63.84	-67.21	6.05	-2.68	-25.00	-38.84
704.15	S	-63.59	-66.86	6.01	-2.75	-25.00	-38.59
955.38	S	-62.15	-64.23	5.42	-3.35	-25.00	-37.15
5135.00	H	-55.63	-57.60	10.01	-8.04	-25.00	-30.63
7702.50	H	---					
10270.00	H	---					
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 21425 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	S	-57.83	-44.36	-12.68	-0.80	-25.00	-32.83
90.14	S	-57.48	-57.88	1.60	-1.20	-25.00	-32.48
294.81	S	-65.66	-69.47	5.67	-1.85	-25.00	-40.66
547.01	S	-68.13	-71.68	6.03	-2.48	-25.00	-43.13
748.77	S	-67.09	-70.08	5.83	-2.85	-25.00	-42.09
946.65	S	-63.26	-65.71	5.78	-3.33	-25.00	-38.26
5135.00	H	-54.15	-56.12	10.01	-8.04	-25.00	-29.15
7702.50	H	---					
10270.00	H	---					
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

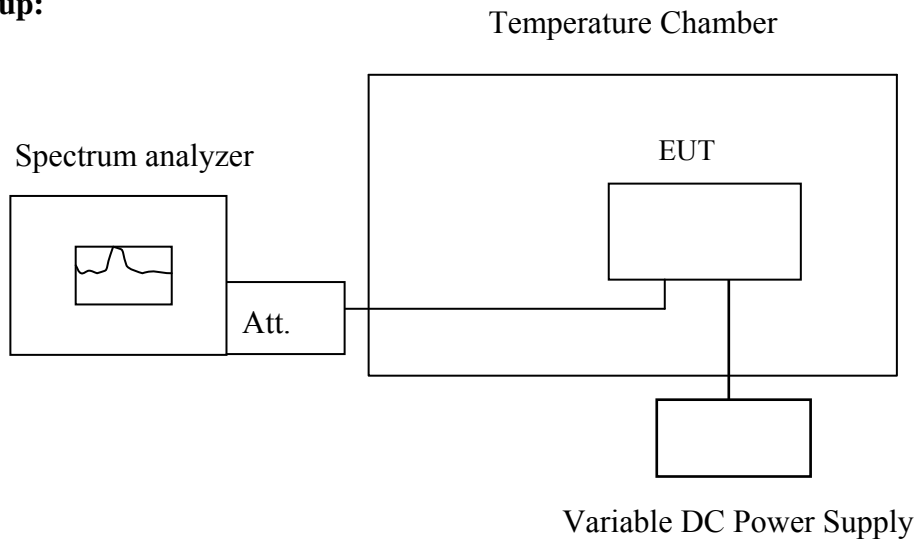
According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 2500MHz band

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	836600011	4	2091
3.8	40	836600008	1	2091
3.8	30	836600006	-1	2091
3.8	20	836600007	0	2091
3.8	10	836600007	0	2091
3.8	0	836600014	7	2091
3.8	-10	836600007	0	2091
3.8	-20	836600005	-2	2091
3.8	-30	836600008	1	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	1880000033	-29	4700
3.8	40	1880000046	-16	4700
3.8	30	1880000038	-24	4700
3.8	20	1880000062	0	4700
3.8	10	1880000025	-37	4700
3.8	0	1880000018	-44	4700
3.8	-10	1880000035	-27	4700
3.8	-20	1880000029	-33	4700
3.8	-30	1880000027	-35	4700

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2535.000008	5.10	6338	
3.8	-20	2534.999999	-3.20	6338	
3.8	-10	2535.000000	-2.40	6338	
3.8	0	2534.999995	-7.40	6338	
3.8	10	2535.000004	1.90	6338	
3.8	20	2535.000002	0.00	6338	
3.8	30	2534.999997	-5.30	6338	
3.8	40	2534.999999	-3.10	6338	
3.8	50	2535.000005	2.80	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2534.999997	2.90	6338	
3.8	-20	2534.999998	3.60	6338	
3.8	-10	2534.999997	3.20	6338	
3.8	0	2534.999993	-1.10	6338	
3.8	10	2535.000006	11.60	6338	
3.8	20	2534.999994	0.00	6338	
3.8	30	2535.000005	10.80	6338	
3.8	40	2535.000003	9.30	6338	
3.8	50	2534.999995	1.40	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2535.000001	-0.90	6338	
3.8	-20	2535.000003	1.80	6338	
3.8	-10	2534.999993	-8.00	6338	
3.8	0	2535.000001	-0.70	6338	
3.8	10	2534.999995	-6.00	6338	
3.8	20	2535.000001	0.00	6338	
3.8	30	2534.999999	-2.30	6338	
3.8	40	2534.999994	-7.30	6338	
3.8	50	2535.000002	0.40	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2534.999998	1.50	6338	
3.8	-20	2535.000004	8.30	6338	
3.8	-10	2535.000004	8.10	6338	
3.8	0	2534.999993	-2.80	6338	
3.8	10	2534.999994	-2.10	6338	
3.8	20	2534.999996	0.00	6338	
3.8	30	2535.000003	7.00	6338	
3.8	40	2535.000008	11.50	6338	
3.8	50	2534.999998	2.10	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2534.999999	-5.20	6338	
3.8	-20	2535.000003	-0.60	6338	
3.8	-10	2534.999995	-9.10	6338	
3.8	0	2534.999996	-7.60	6338	
3.8	10	2535.000007	3.20	6338	
3.8	20	2535.000004	0.00	6338	
3.8	30	2535.000004	0.10	6338	
3.8	40	2535.000004	0.30	6338	
3.8	50	2534.999995	-8.90	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2535.000006	9.70	6338	
3.8	-20	2535.000003	6.50	6338	
3.8	-10	2535.000007	10.50	6338	
3.8	0	2535.000001	5.00	6338	
3.8	10	2535.000001	4.50	6338	
3.8	20	2534.999996	0.00	6338	
3.8	30	2534.999994	-2.50	6338	
3.8	40	2534.999997	1.10	6338	
3.8	50	2534.999994	-2.20	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2534.999996	0.20	6338	
3.8	-20	2535.000001	5.20	6338	
3.8	-10	2535.000004	8.50	6338	
3.8	0	2535.000008	12.60	6338	
3.8	10	2534.999994	-1.10	6338	
3.8	20	2534.999995	0.00	6338	
3.8	30	2535.000008	12.20	6338	
3.8	40	2535.000001	5.30	6338	
3.8	50	2535.000000	5.10	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2534.999999	6.40	6338	
3.8	-20	2534.999999	6.00	6338	
3.8	-10	2534.999998	5.80	6338	
3.8	0	2535.000007	14.00	6338	
3.8	10	2534.999998	5.60	6338	
3.8	20	2534.999993	0.00	6338	
3.8	30	2535.000006	13.00	6338	
3.8	40	2534.999994	1.80	6338	
3.8	50	2535.000006	13.30	6338	

Note: The battery is rated 3.8V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 2500MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

GPRS850

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.3	20	836600005	-2	2091
3.8	20	836600007	0	2091
3.1	20	836600011	4	2091
2.5 (End point)	20	836600009	2	2091

GPRS1900

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.3	20	1880000053	-9	4700
3.8	20	1880000062	0	4700
3.1	20	1880000055	-7	4700
2.5 (End point)	20	1880000024	-38	4700

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.25	25	2535.000005	2.00	6338	
3.8	25	2535.000003	0.00	6338	
3.15	25	2534.999994	-9.00	6338	
2.6 (End Point)	25	2535.000000	-2.90	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.25	25	2535.000007	8.60	6338	
3.8	25	2534.999999	0.00	6338	
3.15	25	2534.999991	-7.70	6338	
2.6 (End Point)	25	2534.999996	-2.80	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.25	25	2535.000001	3.00	6338	
3.8	25	2534.999998	0.00	6338	
3.15	25	2534.999997	-1.00	6338	
2.85 (End Point)	25	2534.999997	-1.40	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.25	25	2535.000001	-4.00	6338	
3.8	25	2535.000005	0.00	6338	
3.15	25	2535.000007	1.70	6338	
2.85 (End Point)	25	2535.000009	3.90	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.25	25	2534.999993	-0.40	6338	
3.8	25	2534.999994	0.00	6338	
3.15	25	2535.000000	6.20	6338	
2.85 (End Point)	25	2534.999999	4.80	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.25	25	2535.000006	-1.20	6338	
3.8	25	2535.000008	0.00	6338	
3.15	25	2534.999995	-12.50	6338	
2.85 (End Point)	25	2534.999999	-8.70	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.25	25	2535.000001	3.70	6338	
3.8	25	2534.999997	0.00	6338	
3.15	25	2535.000000	2.70	6338	
2.85 (End Point)	25	2535.000001	4.20	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.25	25	2535.000005	7.80	6338	
3.8	25	2534.999997	0.00	6338	
3.15	25	2534.999995	-2.60	6338	
2.85 (End Point)	25	2535.000005	7.80	6338	

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13. PEAK TO AVERAGE RATIO

13.1. Standard Applicable:

According FCC 24.232(d), FCC 27.53 (d) (5) – The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

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

Refer to section 2.4 in this report

13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.1 Tabular Results:

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 128(L)		Channel 190(M)		Channel 251(H)	
	824.2MHz		836.6MHz		848.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 850	9.61	13	11.53	13	9.88	13
GPRS 850	11.08	13	10.66	13	11.80	13
EDGE 850	10.81	13	9.23	13	11.75	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 512(L)		Channel 661(M)		Channel 810(H)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 1900	11.22	13	10.50	13	10.38	13
GPRS 1900	11.09	13	10.90	13	10.93	13
EDGE 1900	10.16	13	13.13	13	11.22	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20775(L)		Channel 21100(M)		Channel 21425(H)	
	2502.5MHz		2535.0MHz		2567.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:5M	6.17	13	6.28	13	6.14	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20800 (L)		Channel 21100(M)		Channel 21400 (H)	
	2505.0MHz		2535.0MHz		2565.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:10M	6.15	13	5.26	13	5.20	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20825(L)		Channel 21100(M)		Channel 21375(H)	
	2507.5MHz		2535.5MHz		2562.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:15M	5.44	13	5.56	13	5.50	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20850(L)		Channel 21100(M)		Channel 21350(H)	
	2510.0MHz		2535.0MHz		2560.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:20M	6.12	13	6.13	13	6.15	13

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13.5.2 Measurement Results:

Figure 13-1: GSM 850 Channel Low

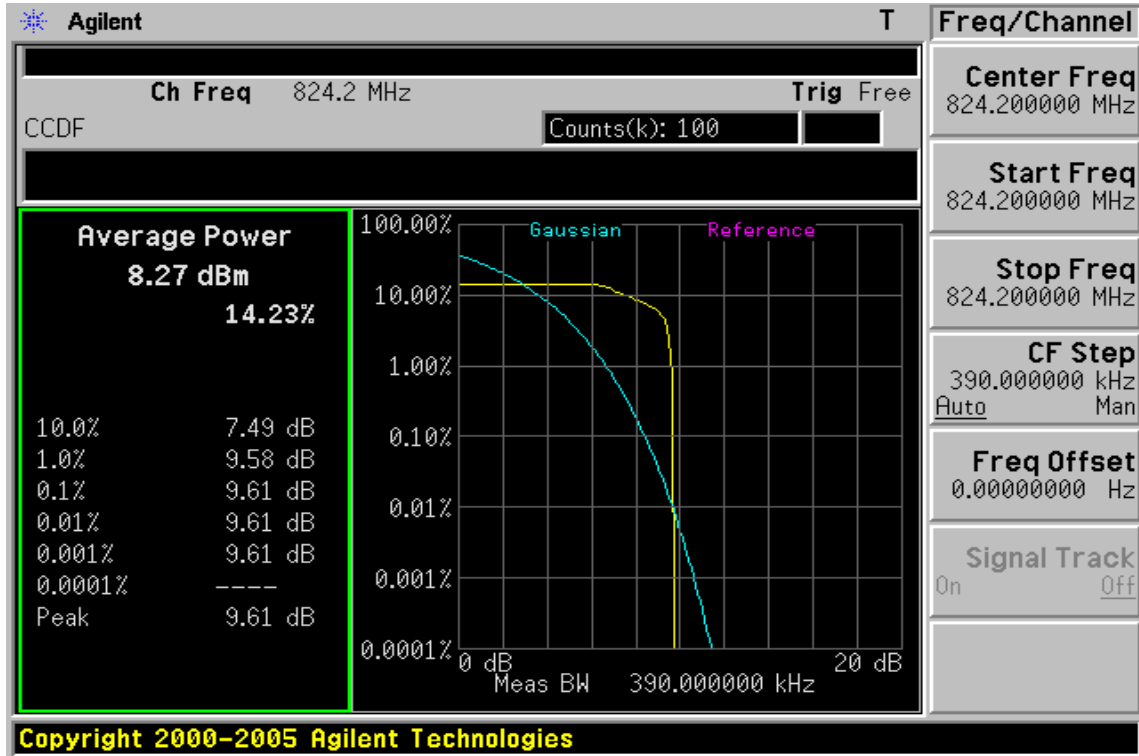
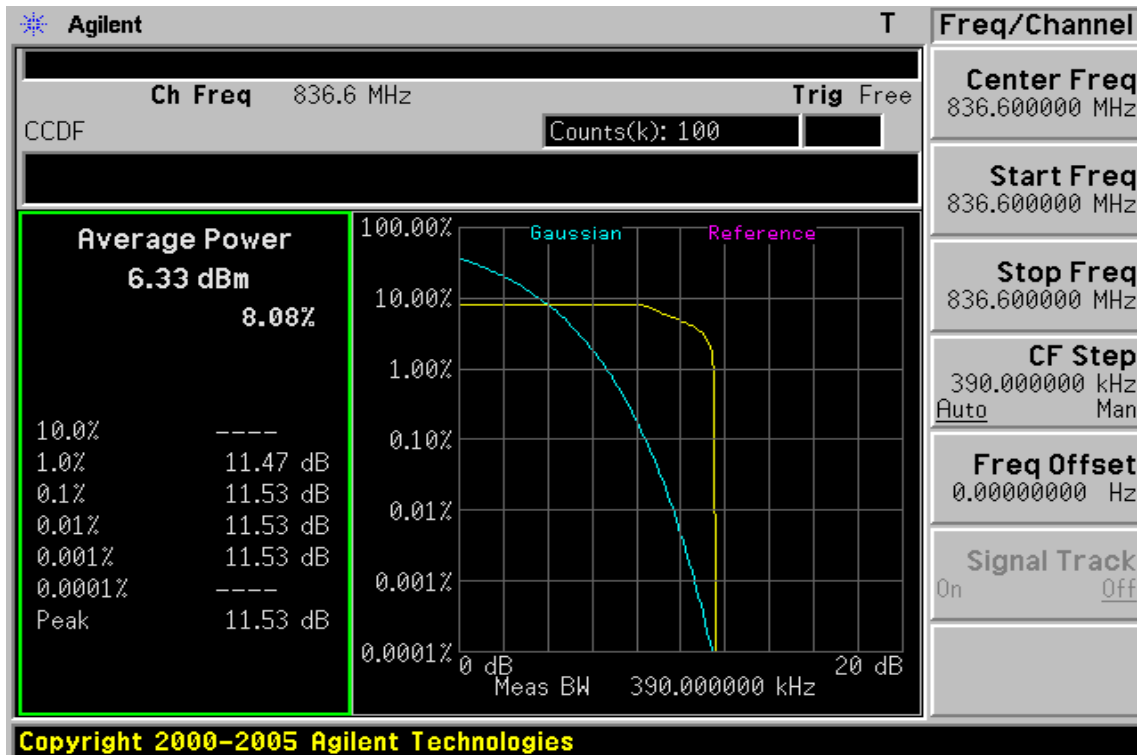


Figure 13-2: GSM 850 Channel Mid



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Figure 13-3: GSM 850 Channel High

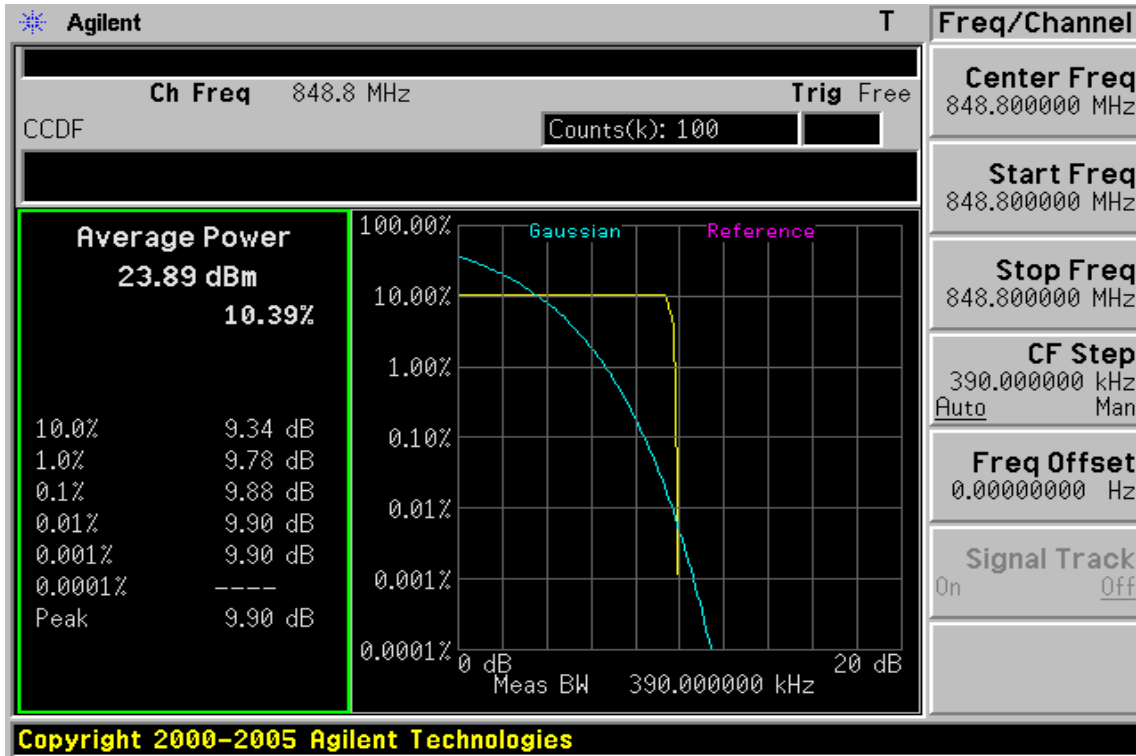
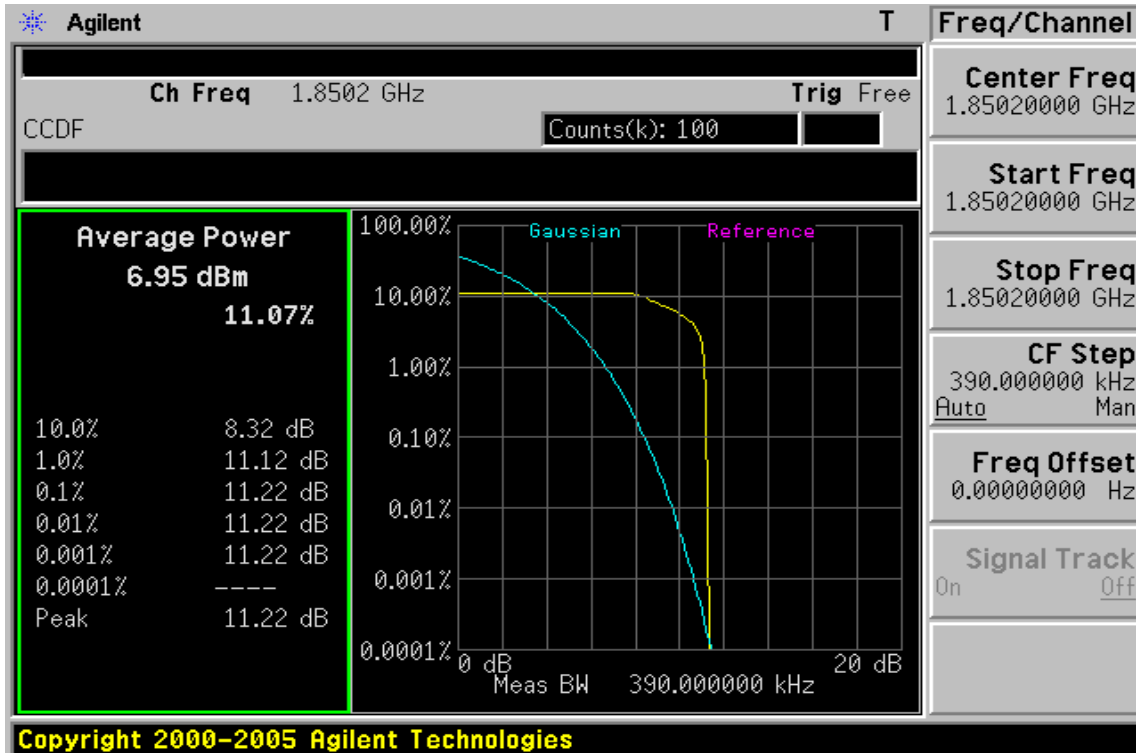


Figure 13-4: GSM 1900 Channel Low



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Figure 13-5: GSM 1900 Channel Mid

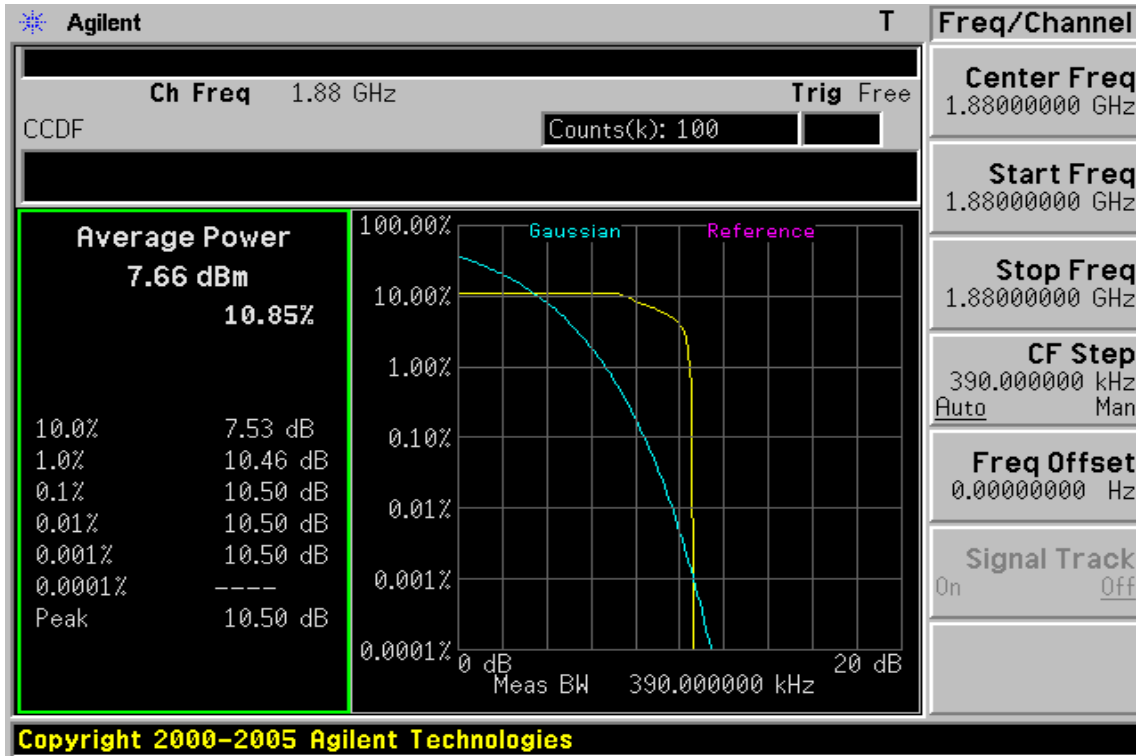
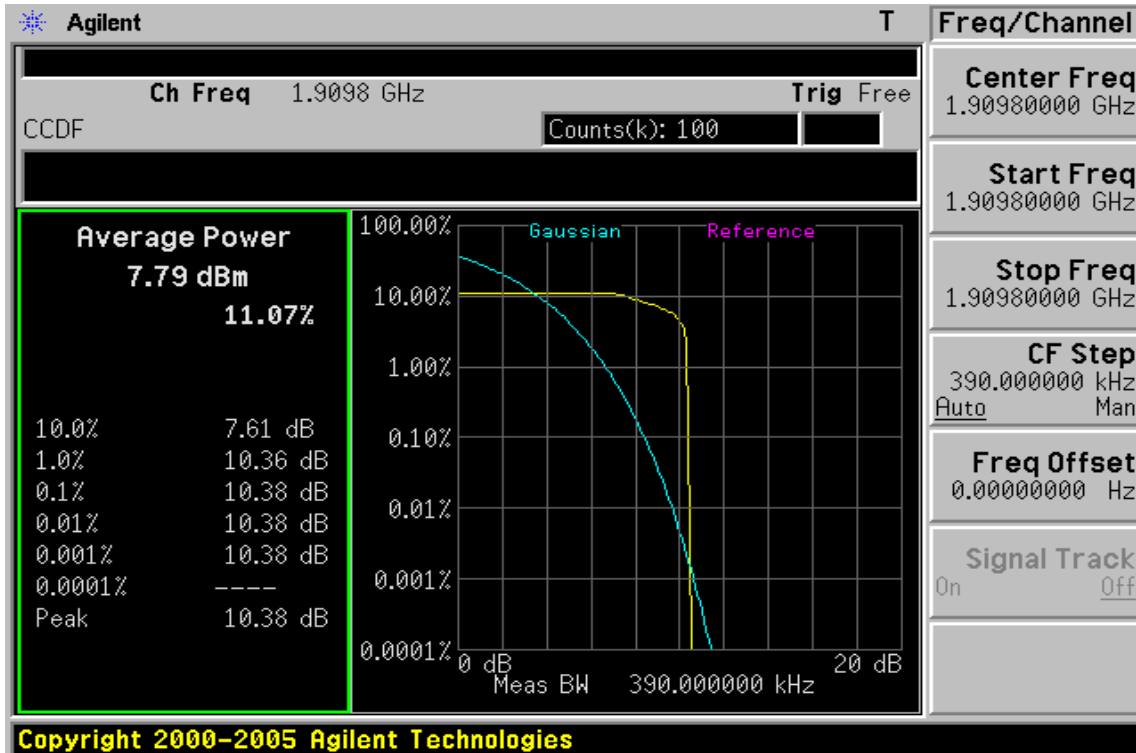


Figure 13-6: GSM 1900 Channel High



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Figure 13-7: GPRS 850 Channel Low

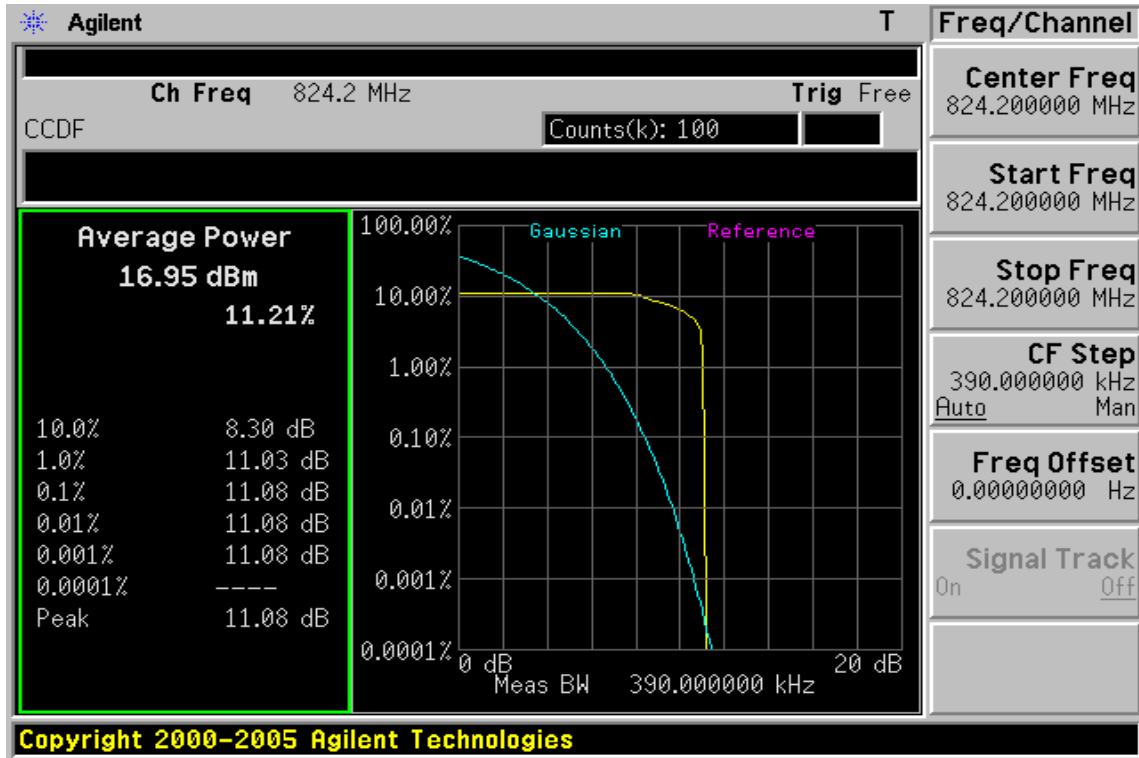
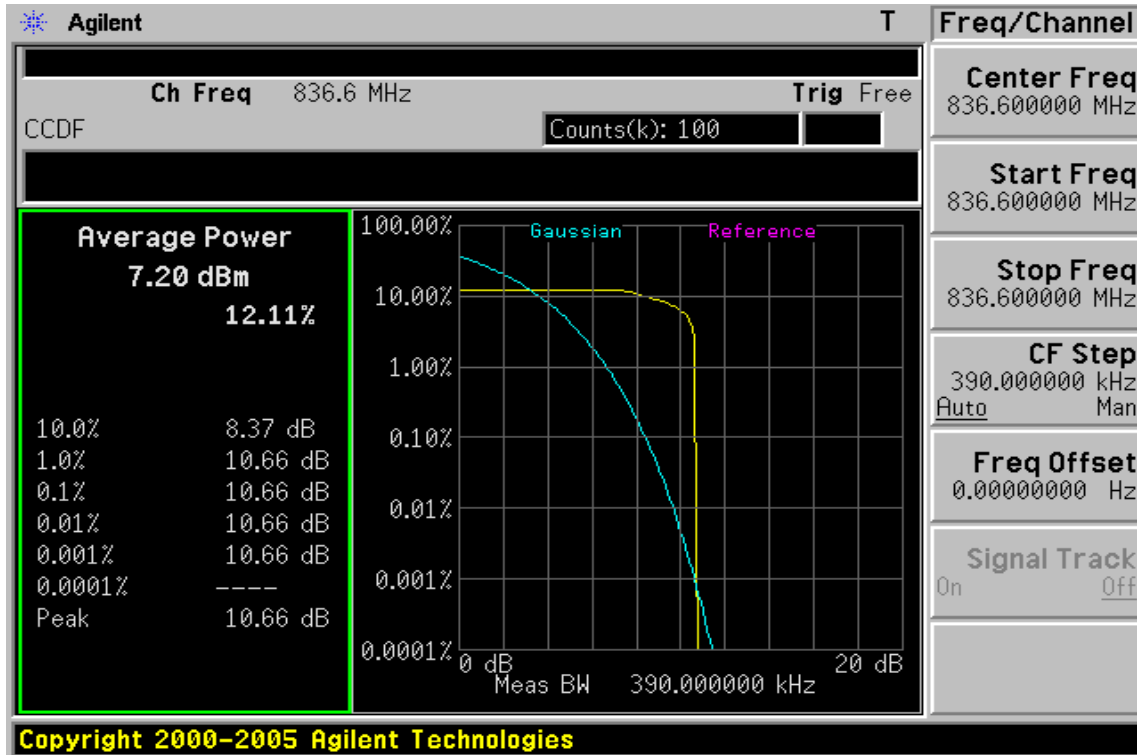


Figure 13-8: GPRS 850 Channel Mid



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Figure 13-9: GPRS 850 Channel High

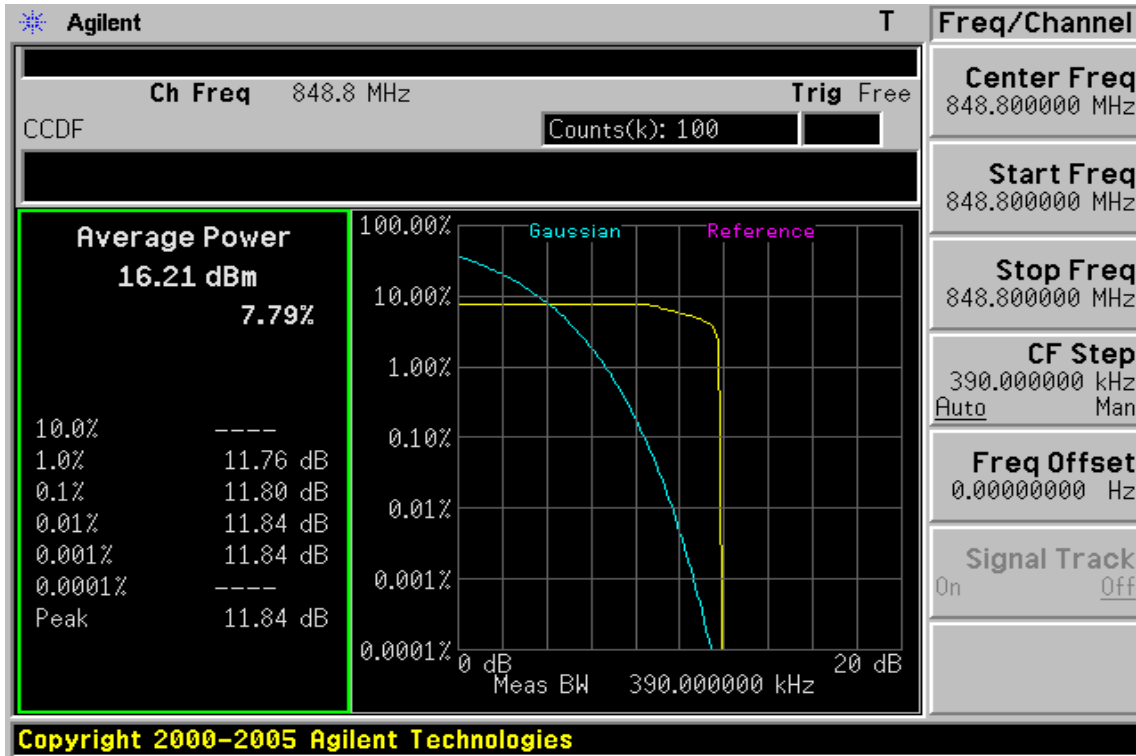
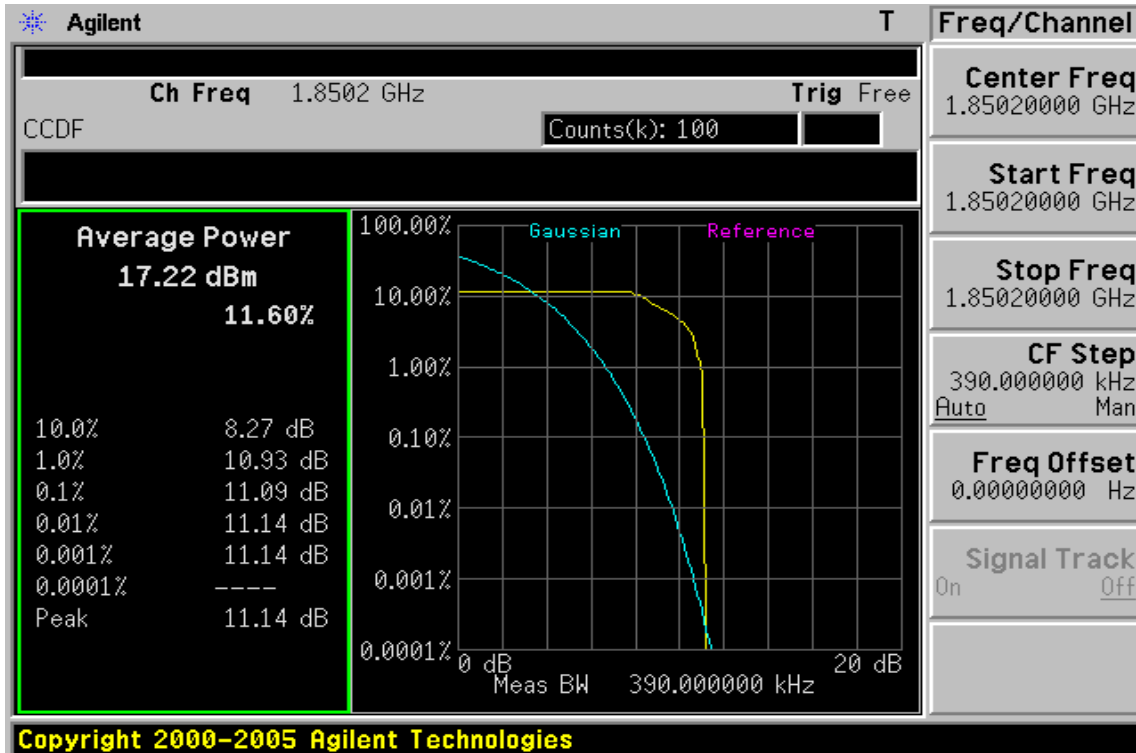


Figure 13-10: GPRS 1900 Channel Low



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Figure 13-11 GPRS 1900 Channel Mid

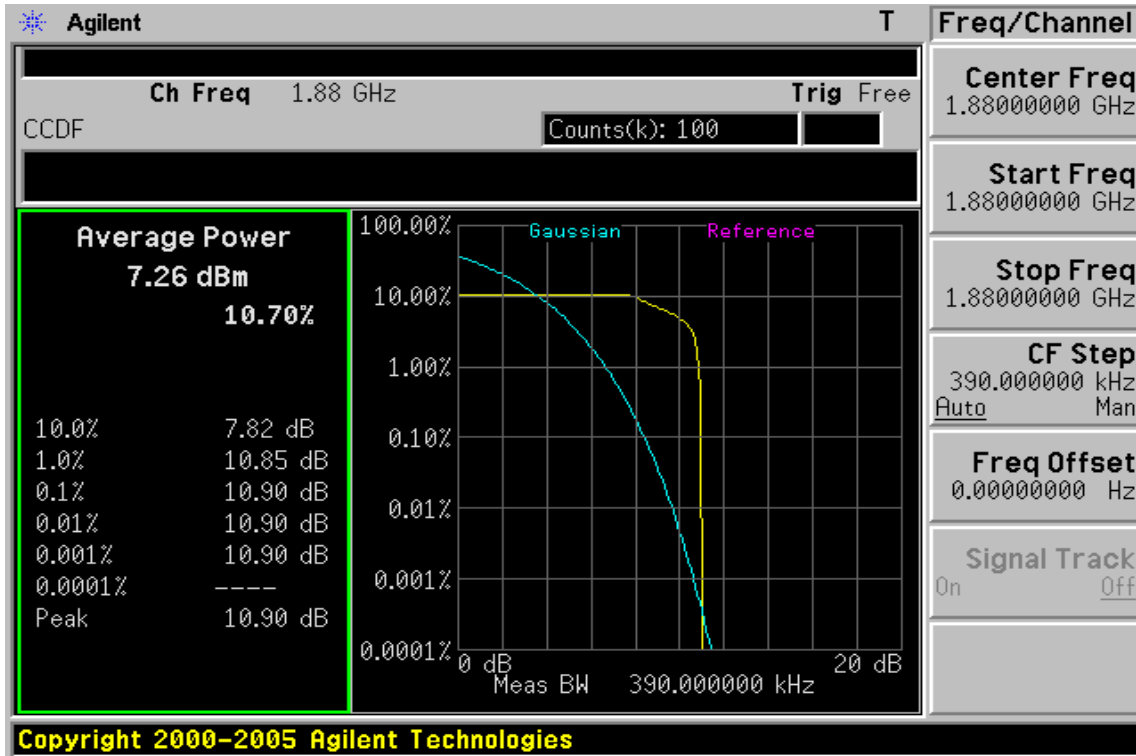
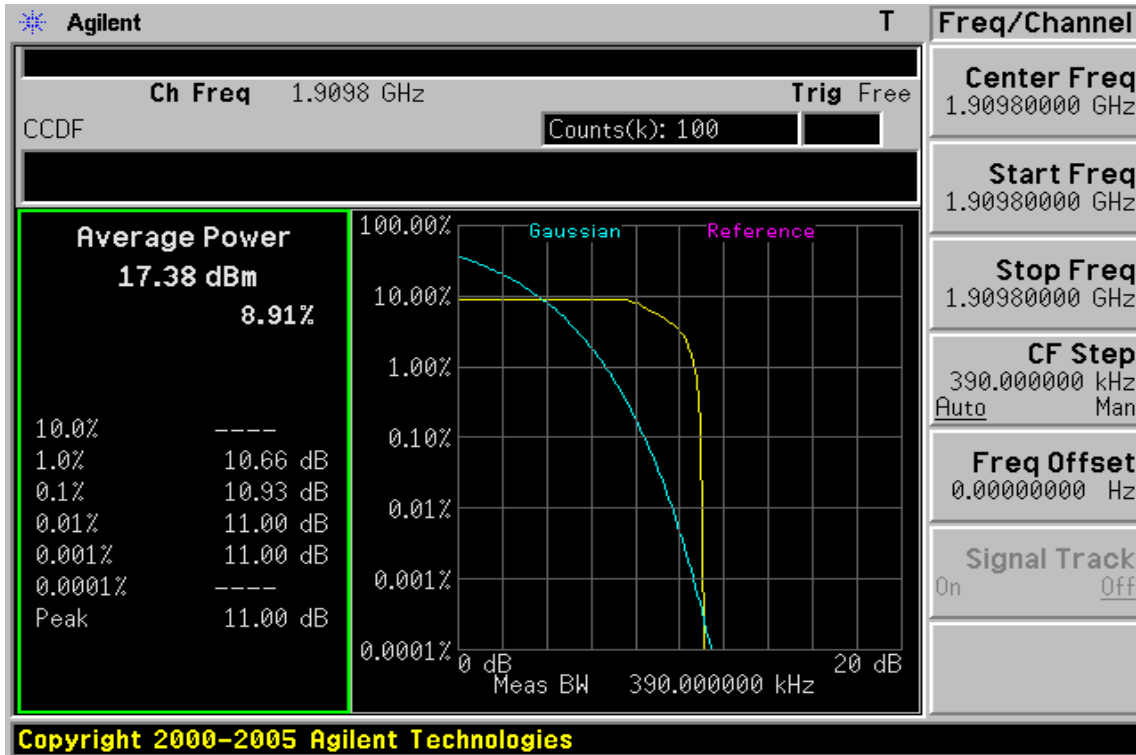


Figure 13-12: GPRS 1900 Channel High



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Figure 13-13: EDGE 850 Channel Low

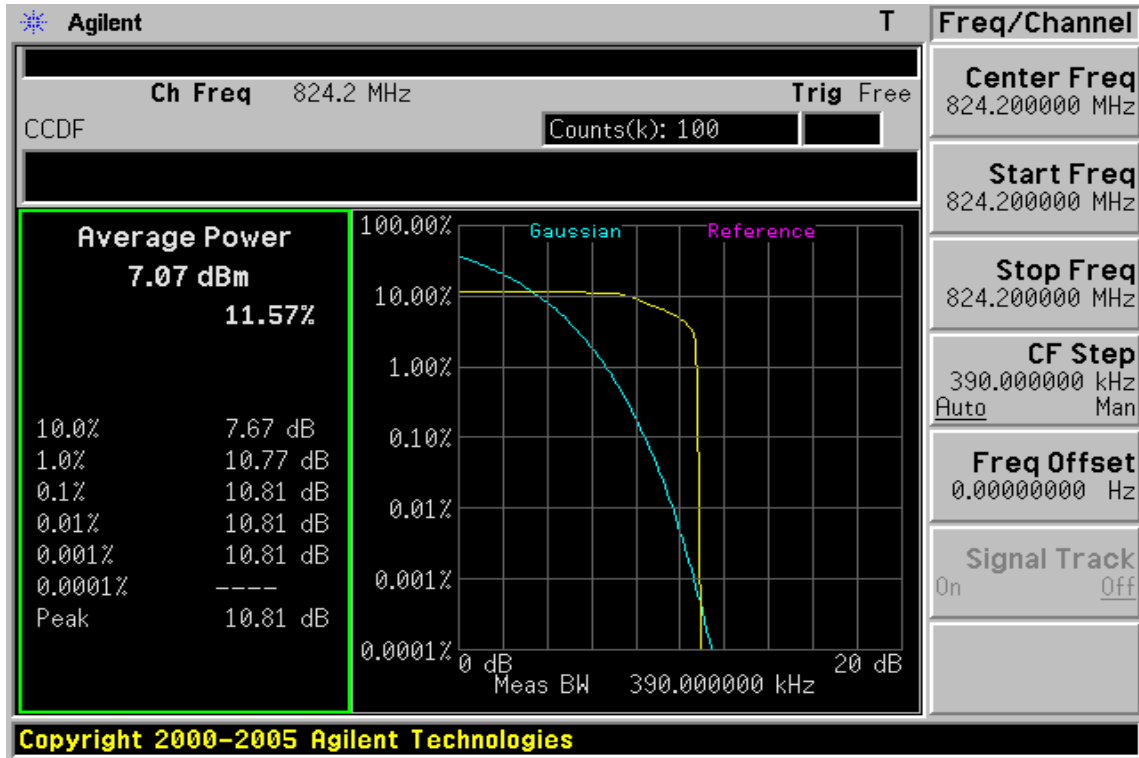
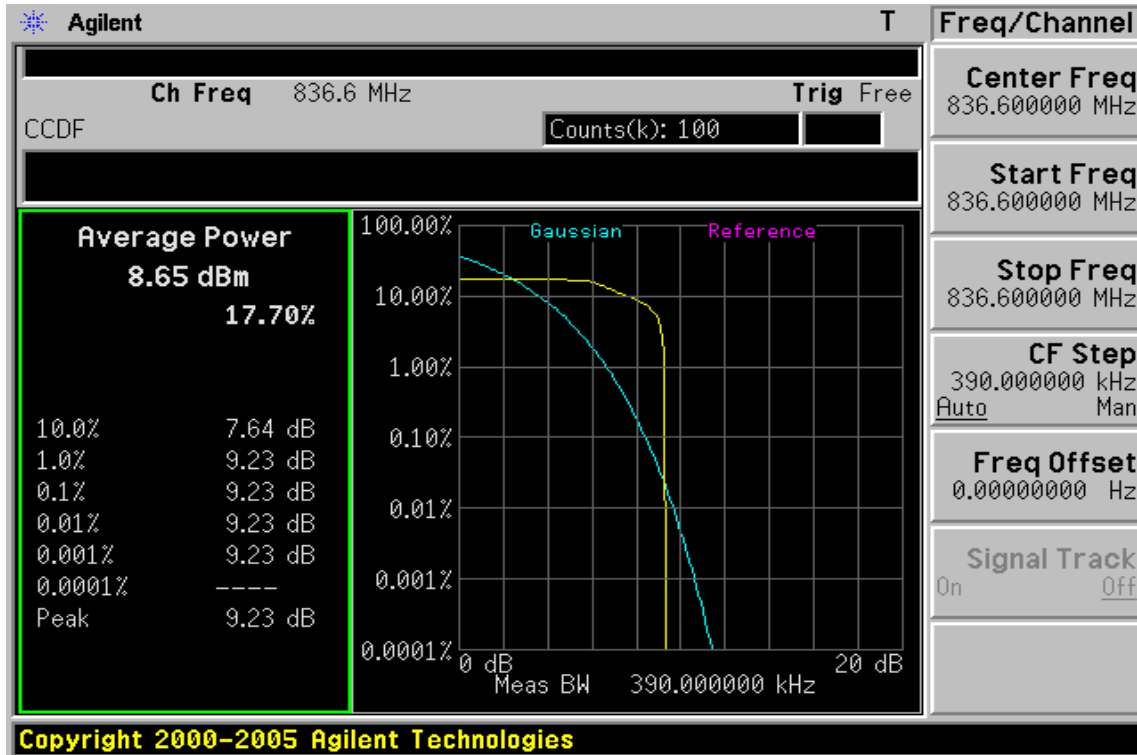


Figure 13-14 EDGE 850 Channel Mid



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Figure 13-15: EDGE 850 Channel High

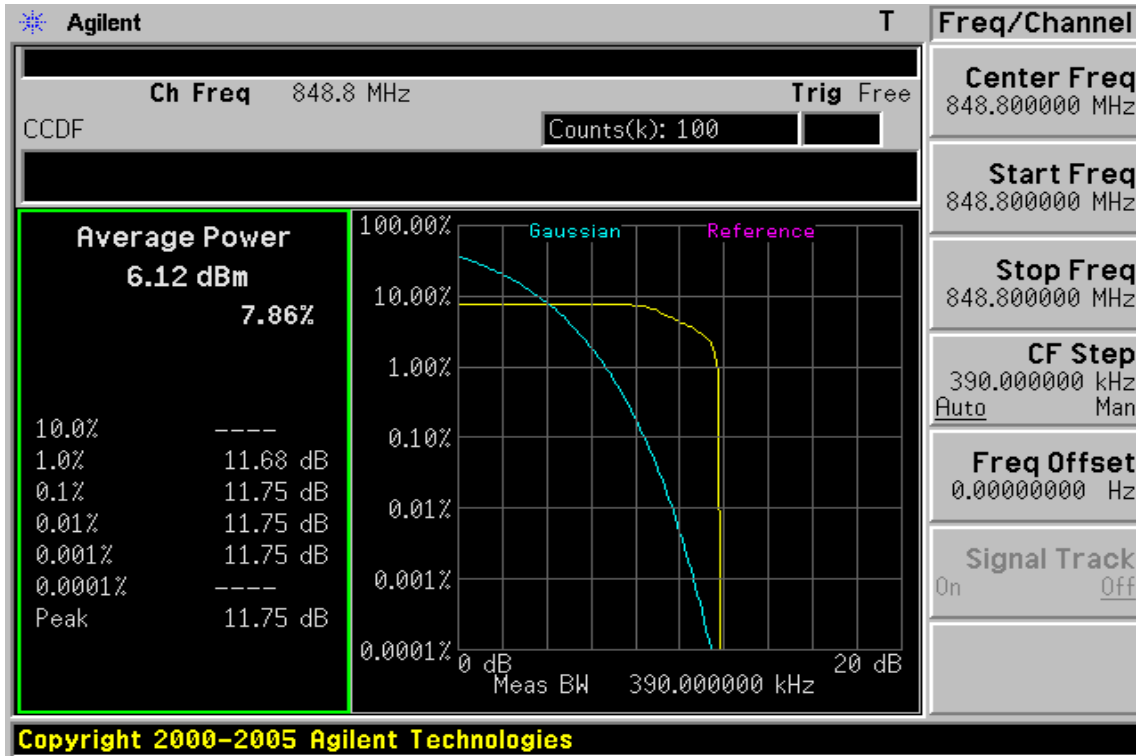
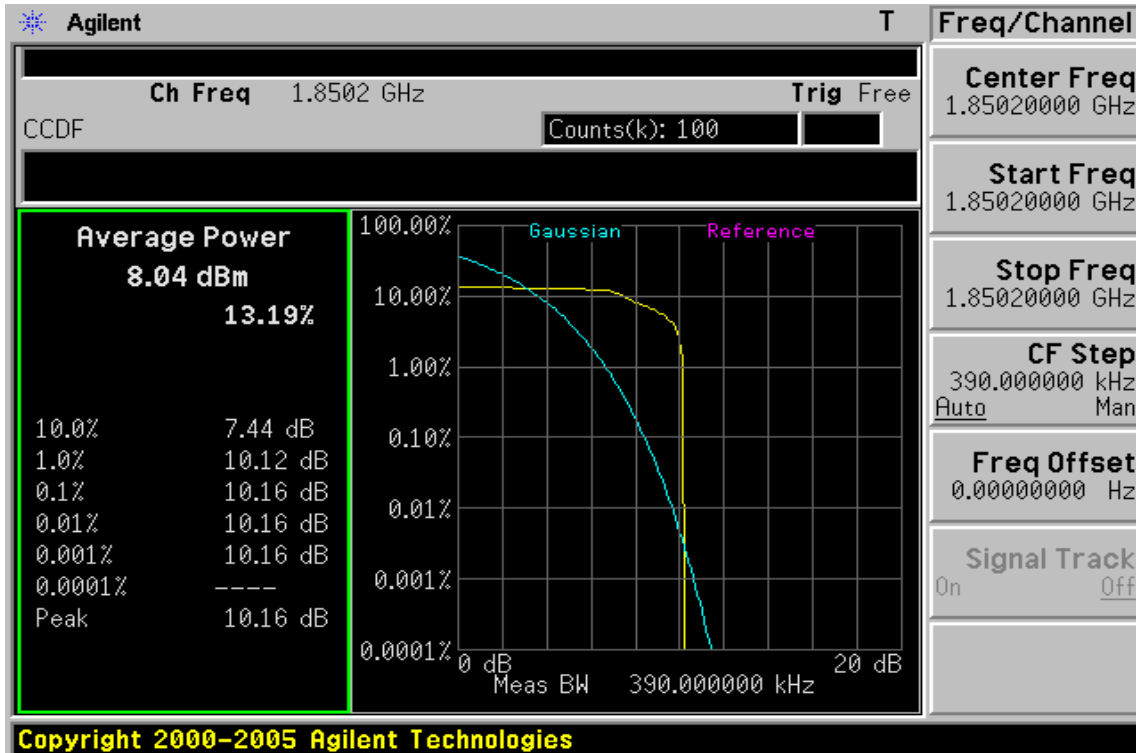


Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid

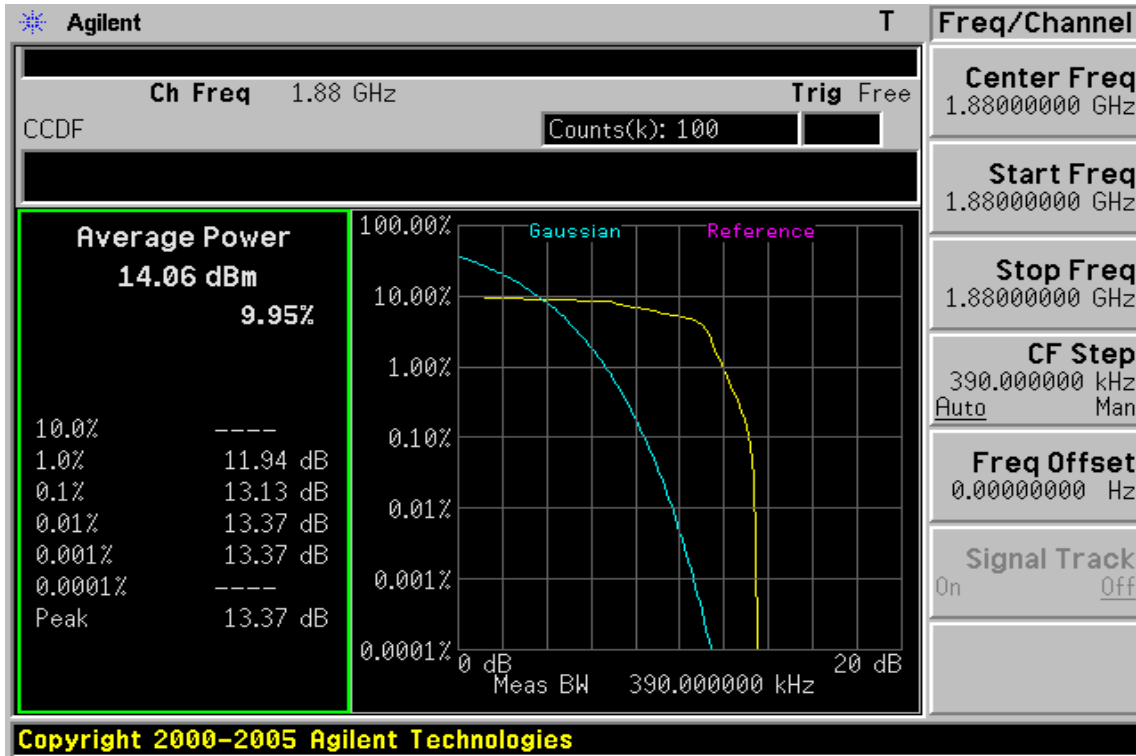
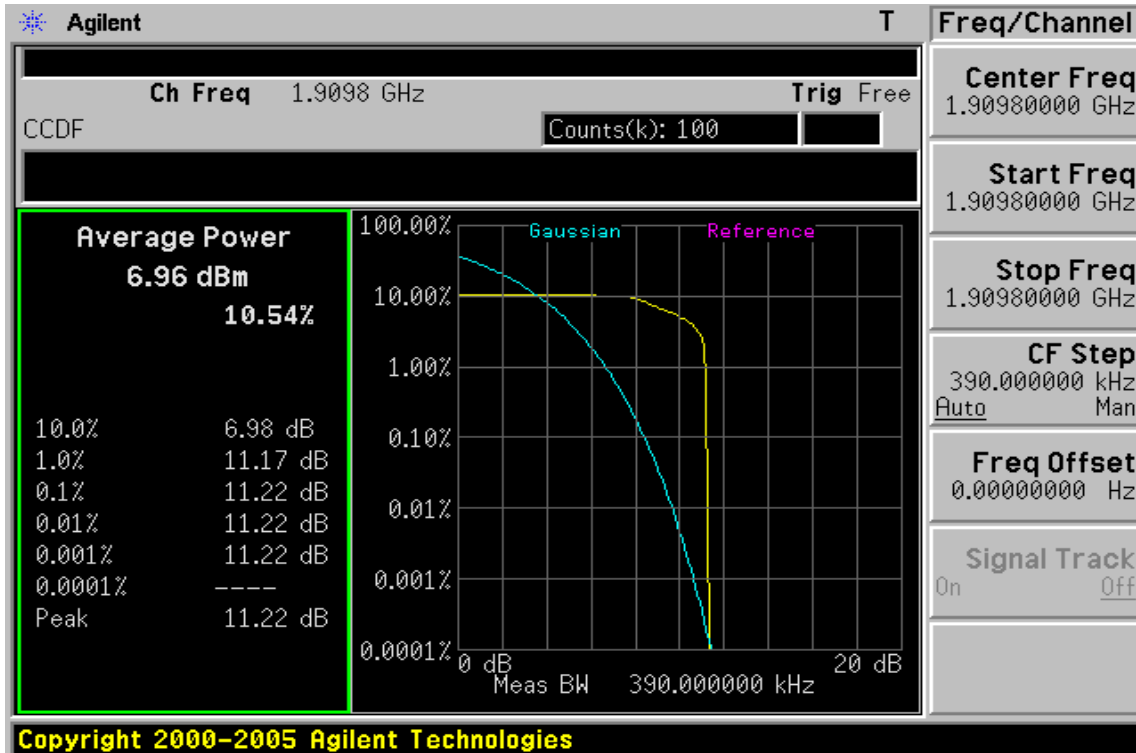


Figure 13-18: EDGE 1900 Channel High



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Figure 13-19: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low

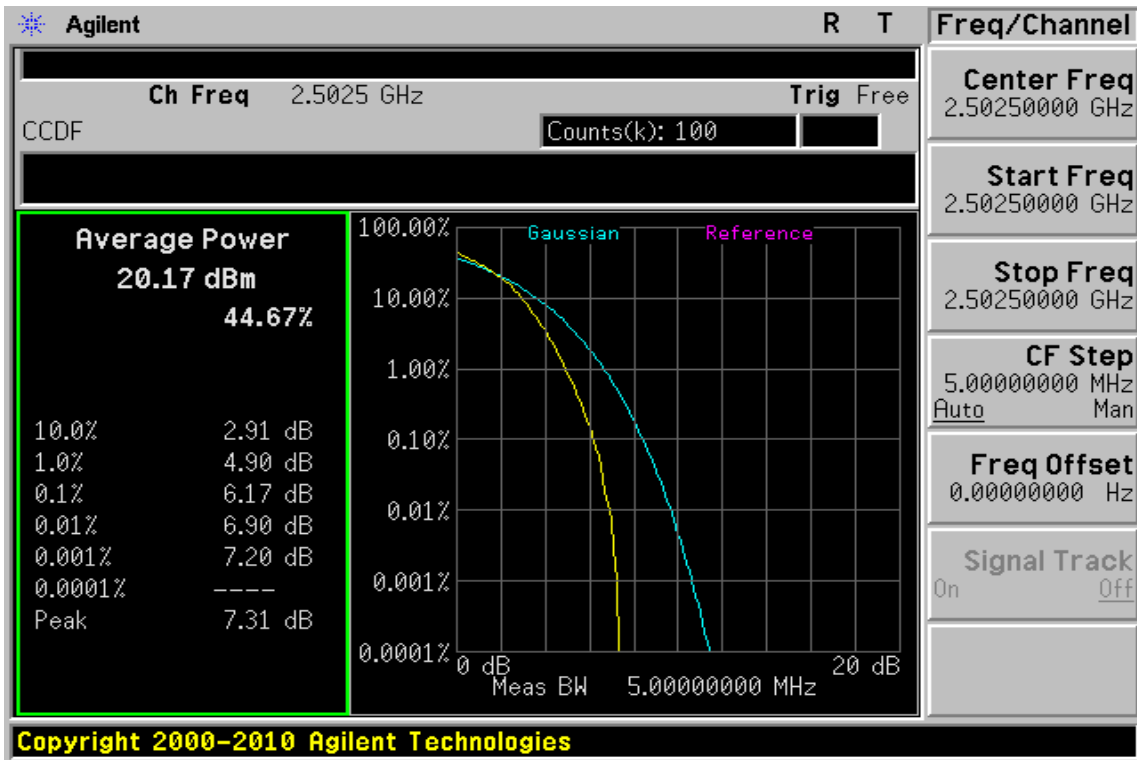
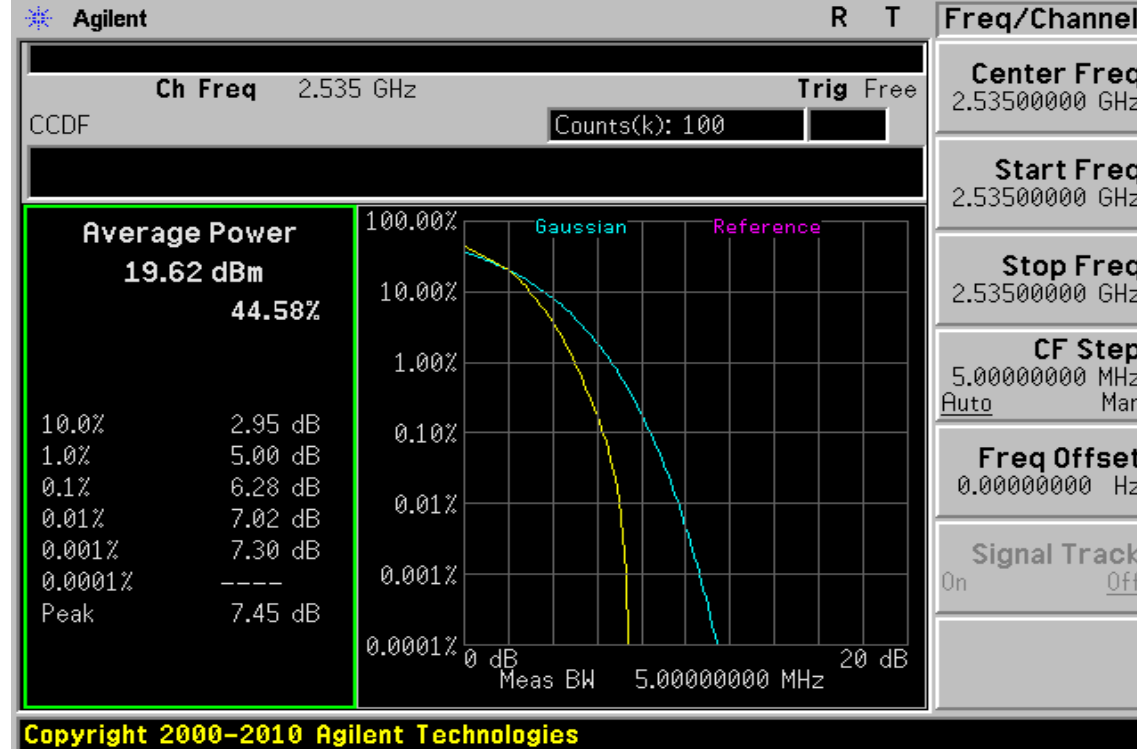


Figure 13-20: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-21: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel High

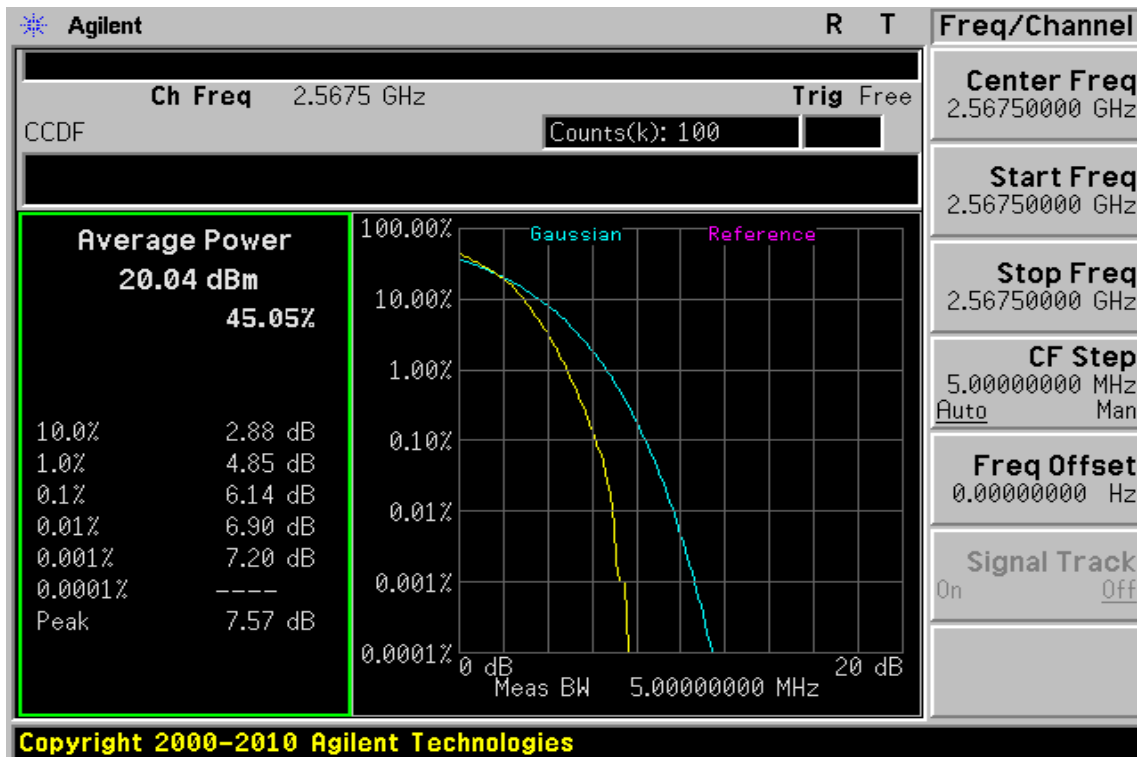
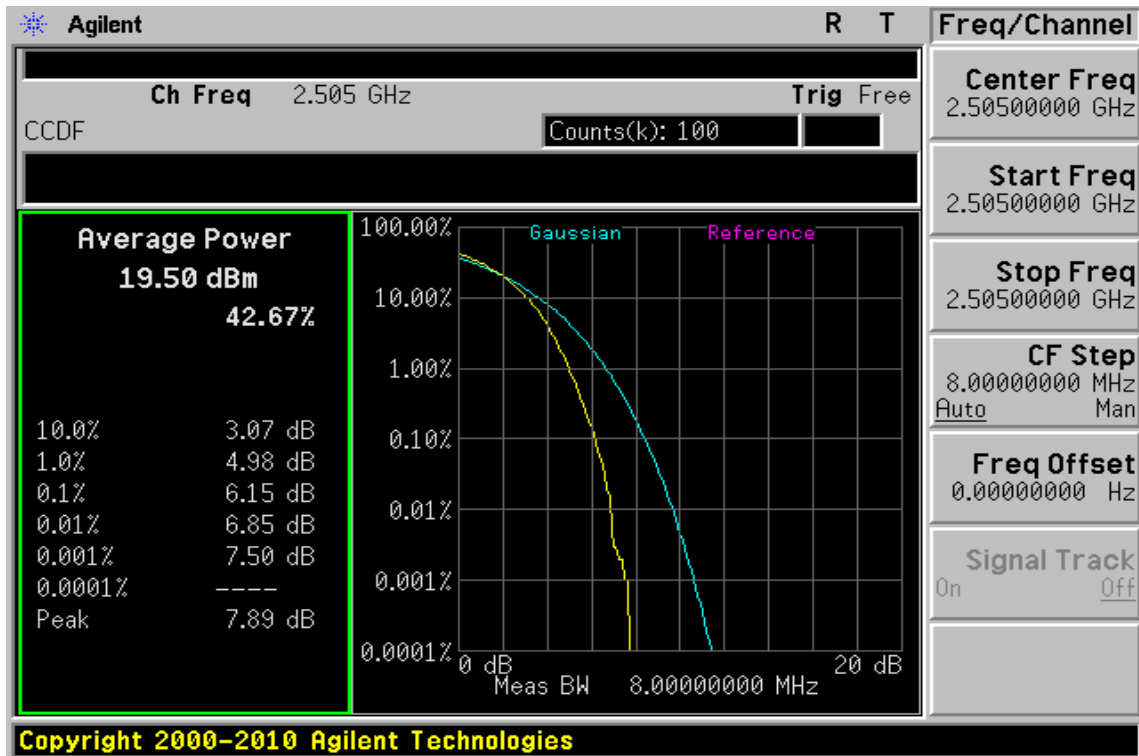


Figure 13-22: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-23: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid

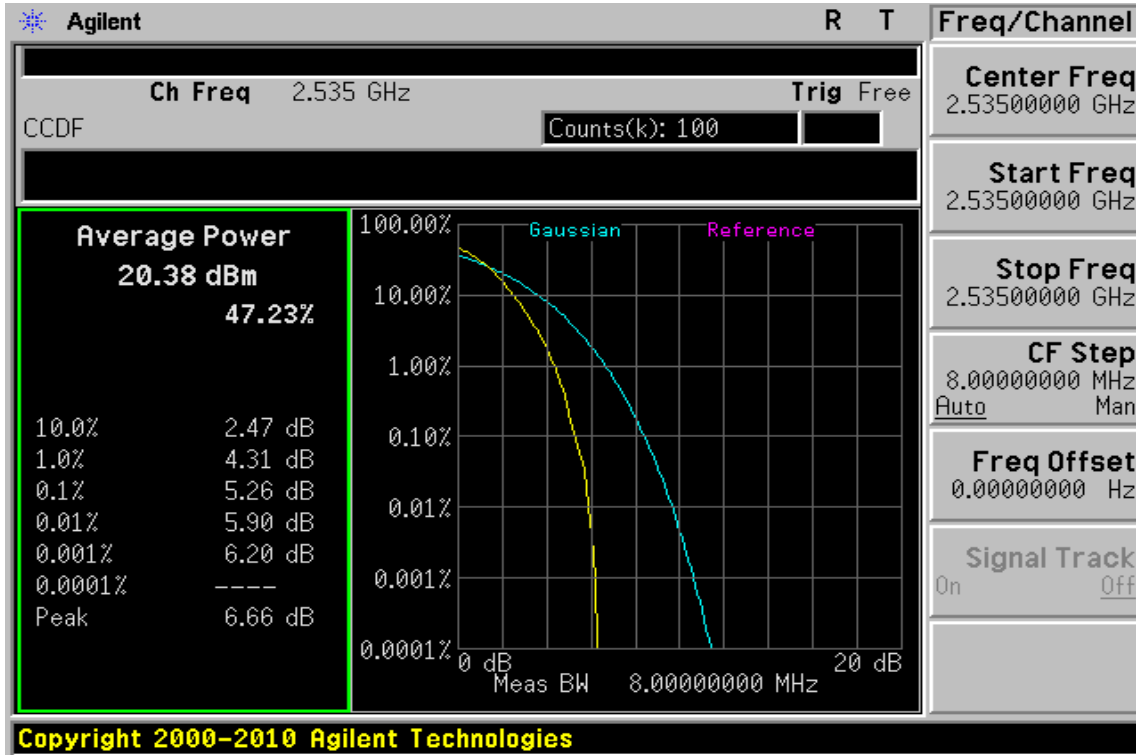
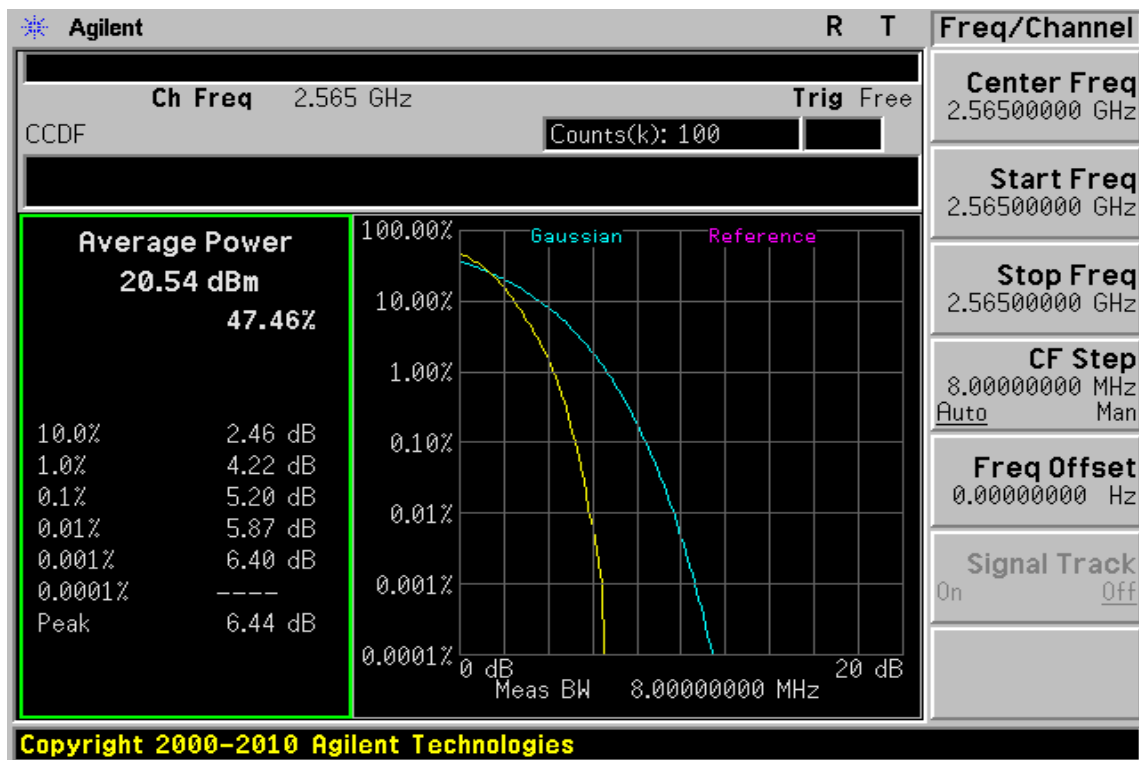


Figure 13-24: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-25: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low

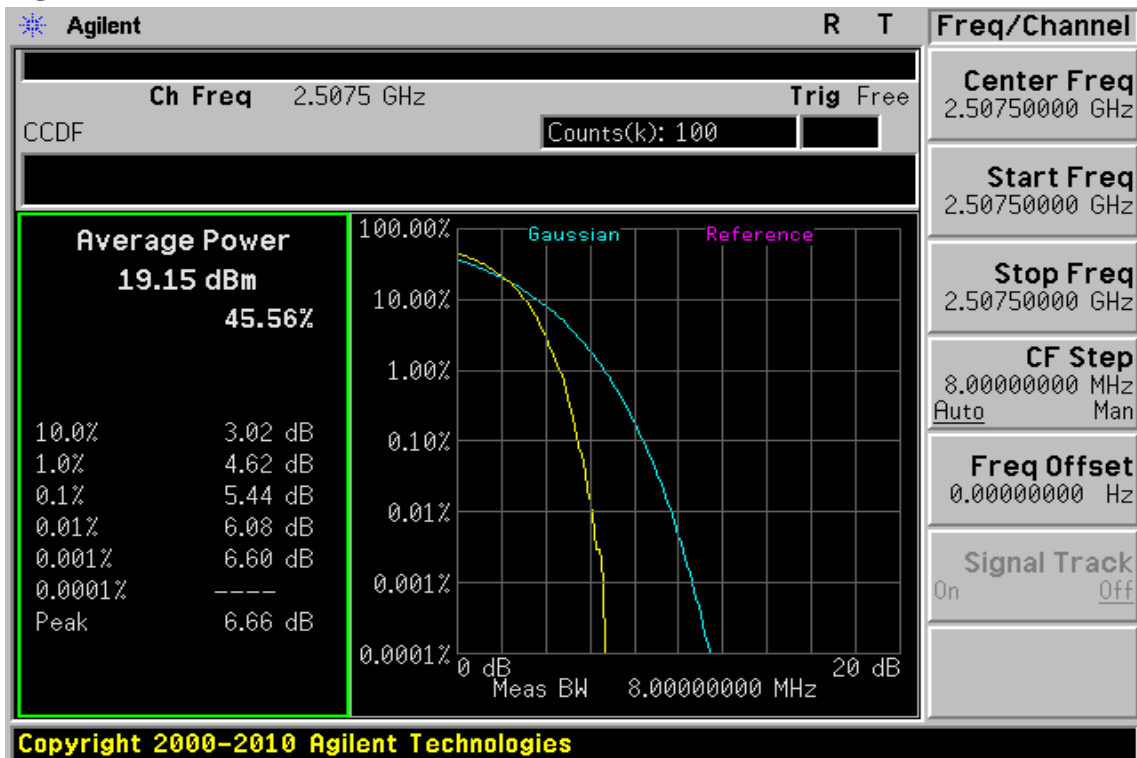
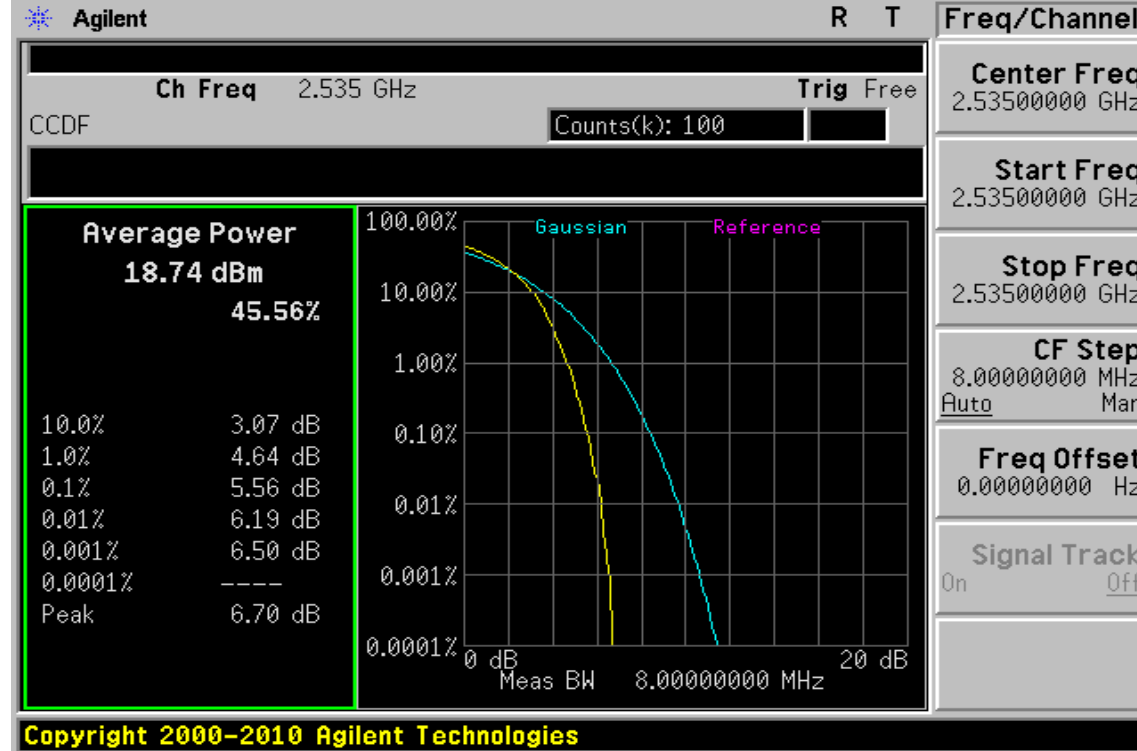


Figure 13-26: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-27: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High

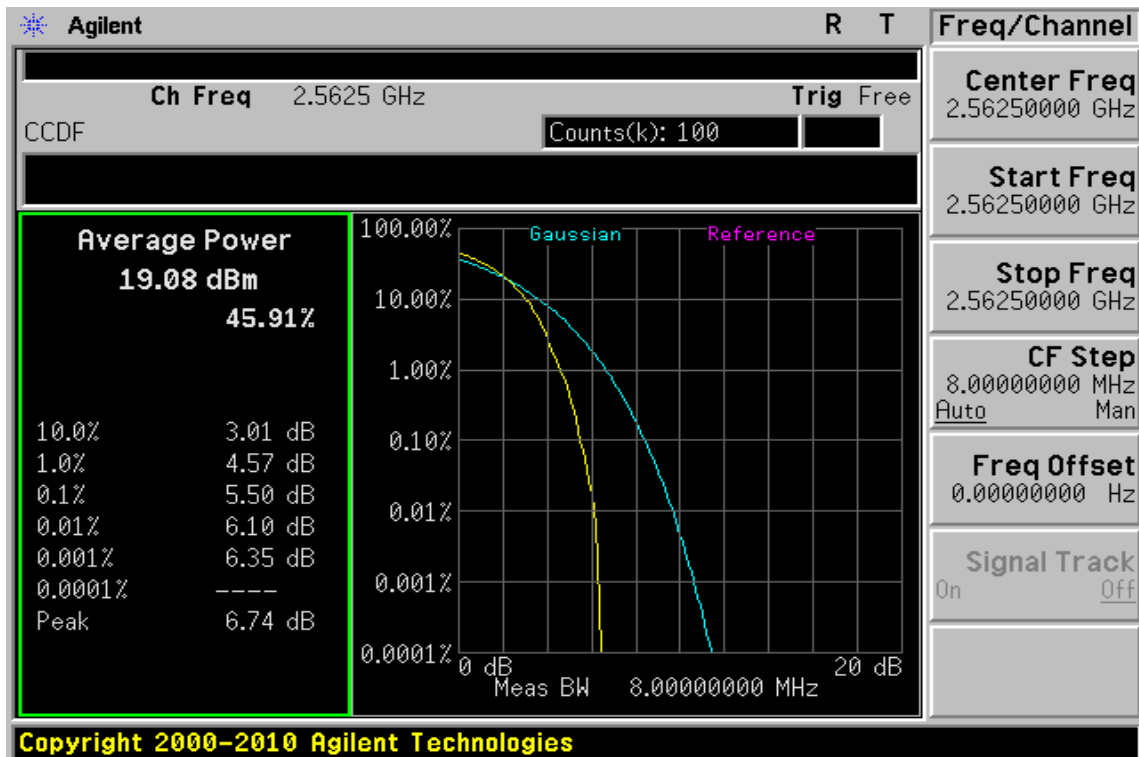
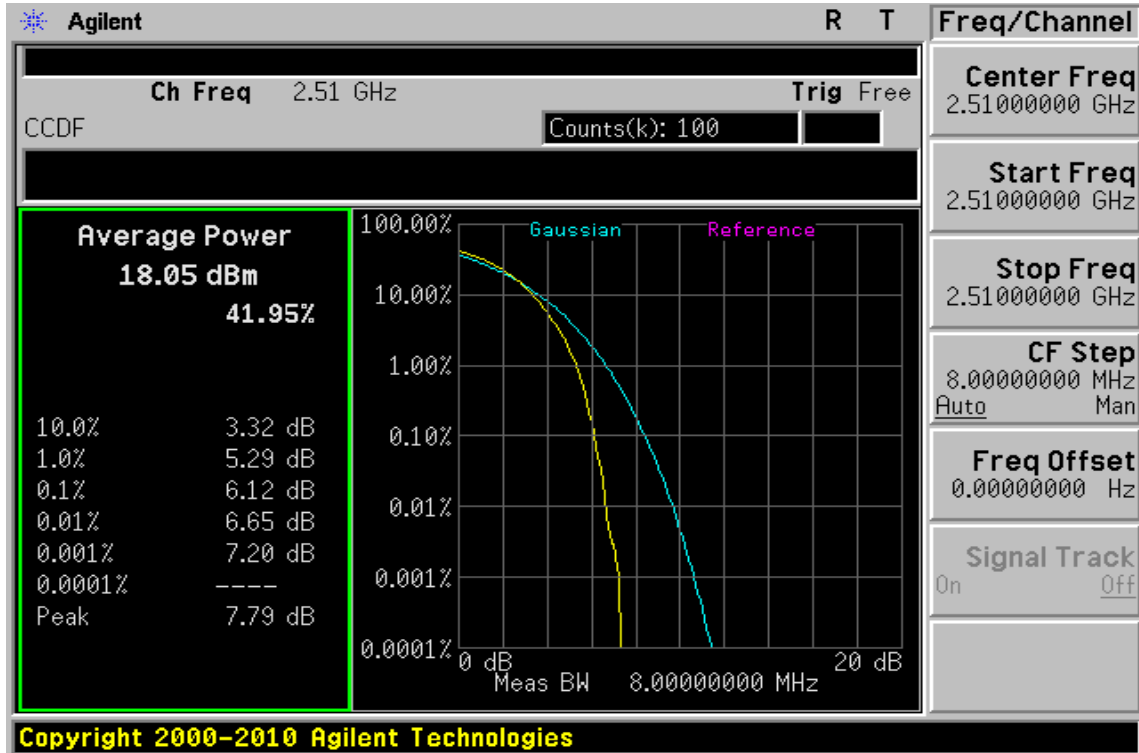


Figure 13-28: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-29: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid

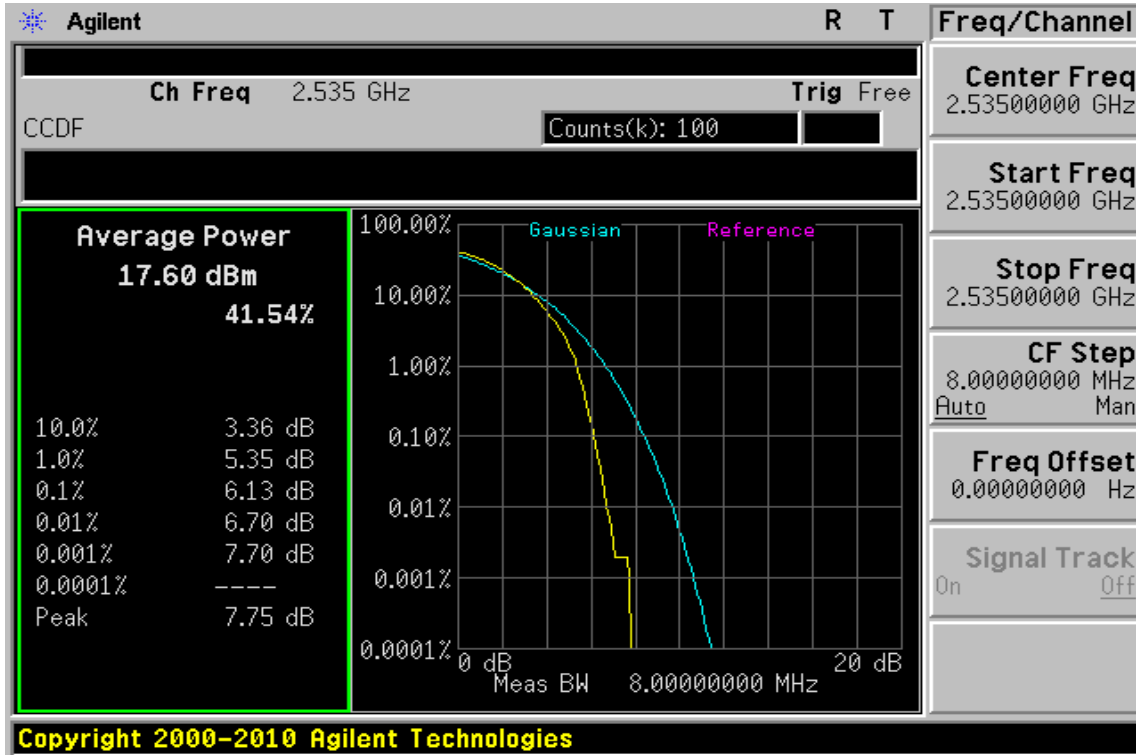
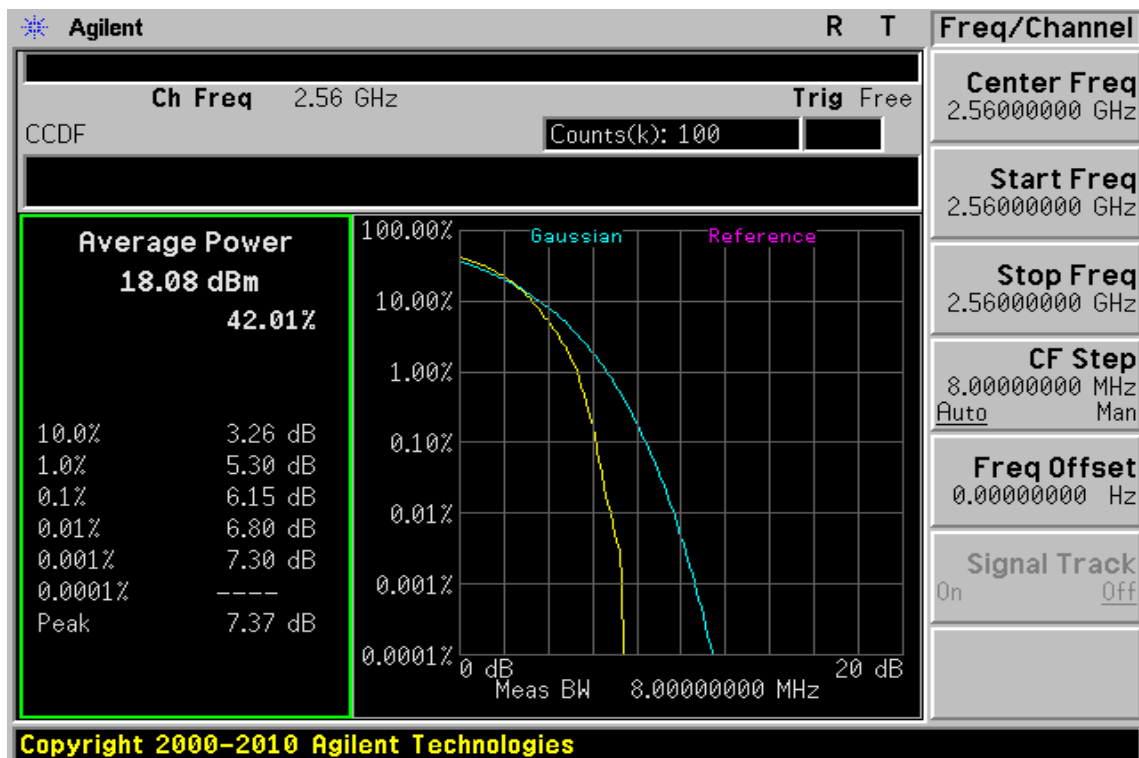


Figure 13-30: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High



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APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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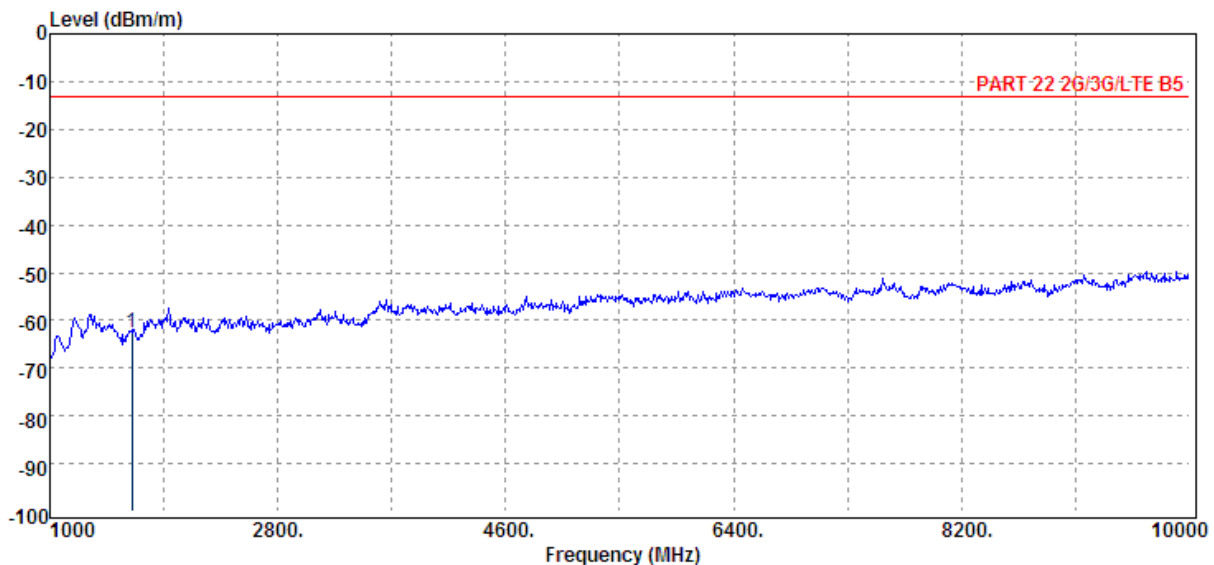
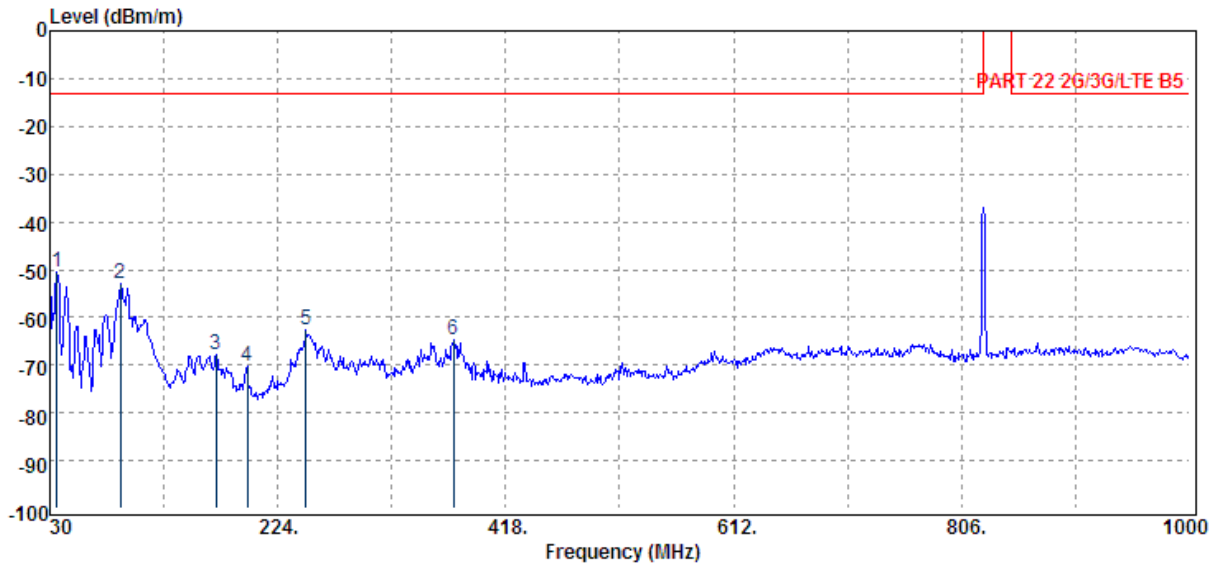
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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 128	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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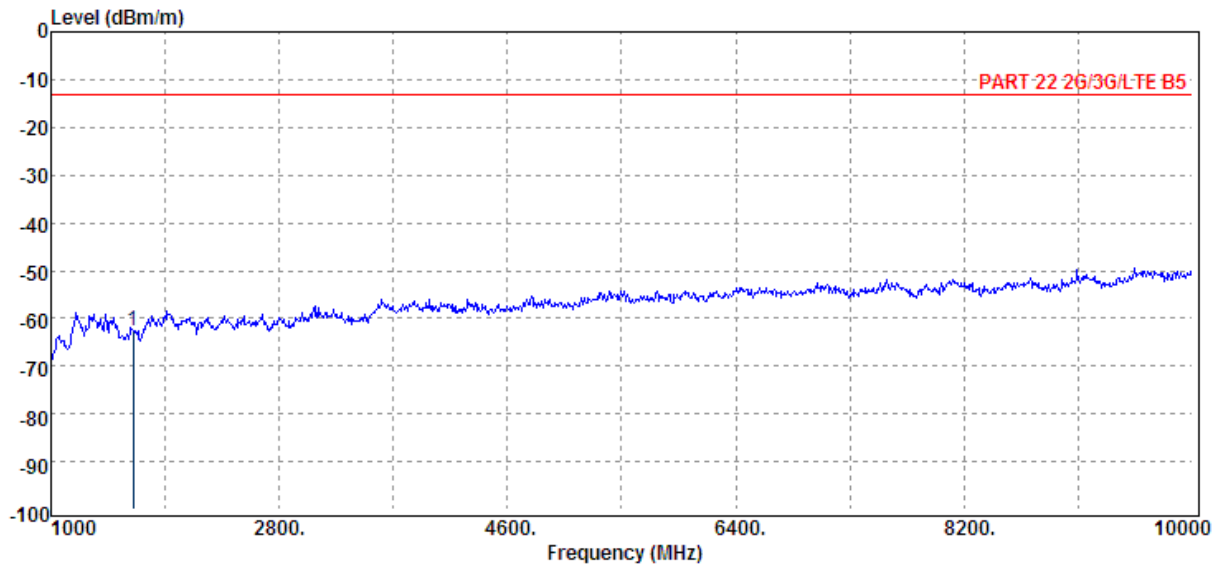
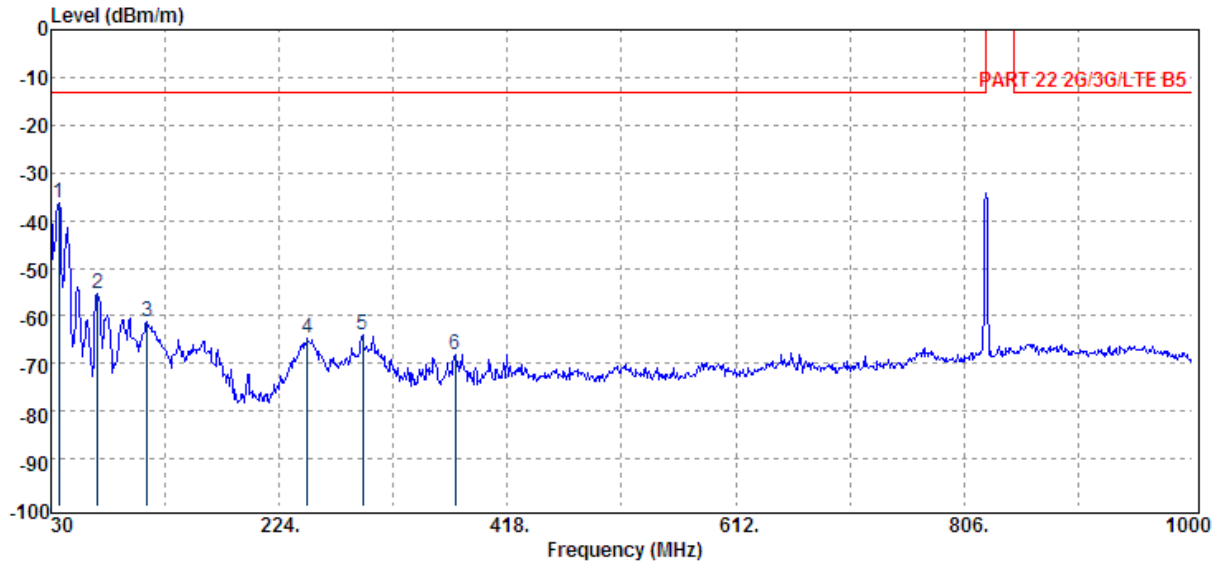
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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 128	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



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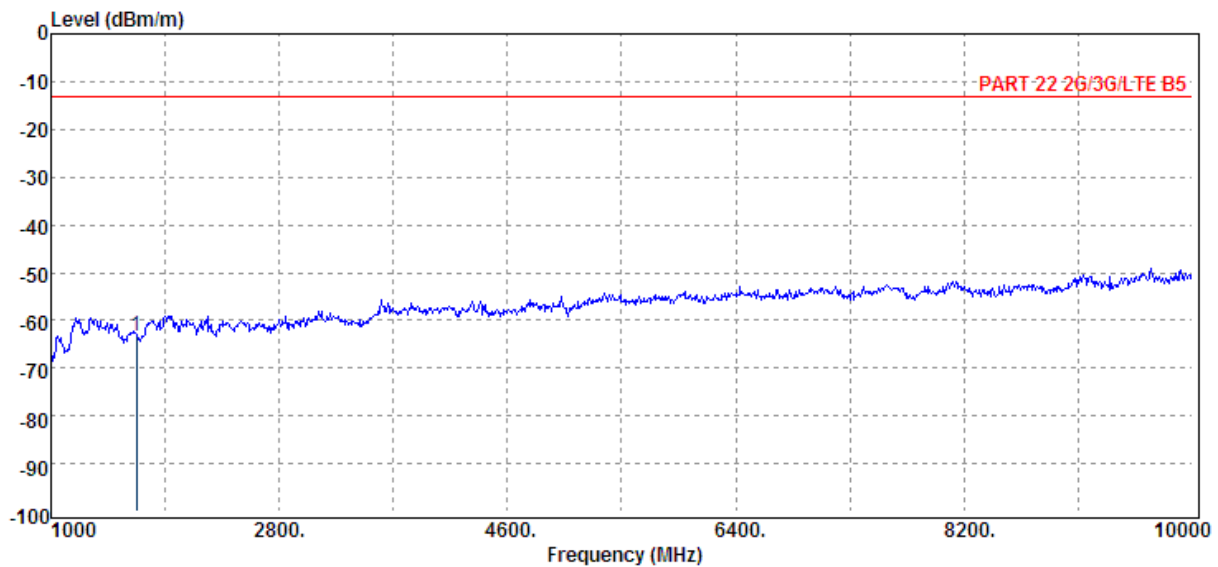
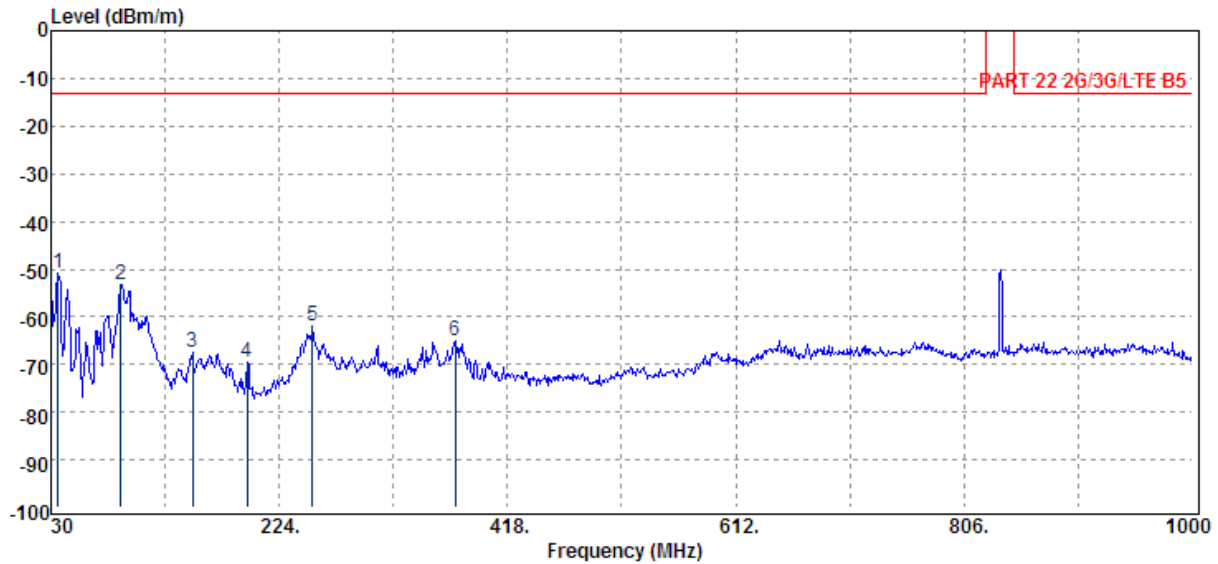
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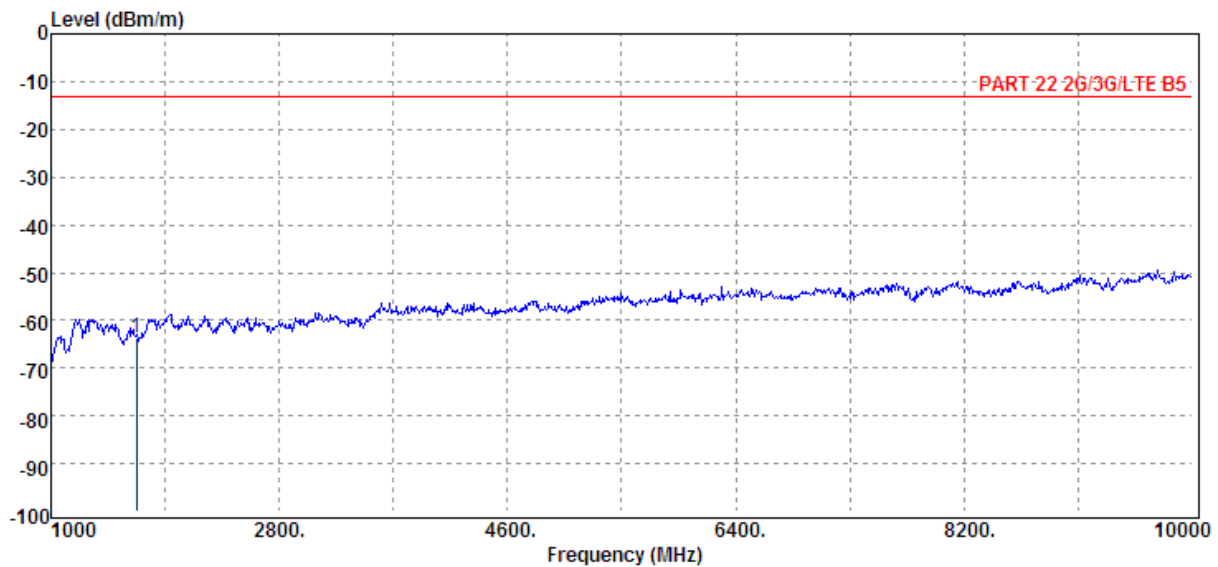
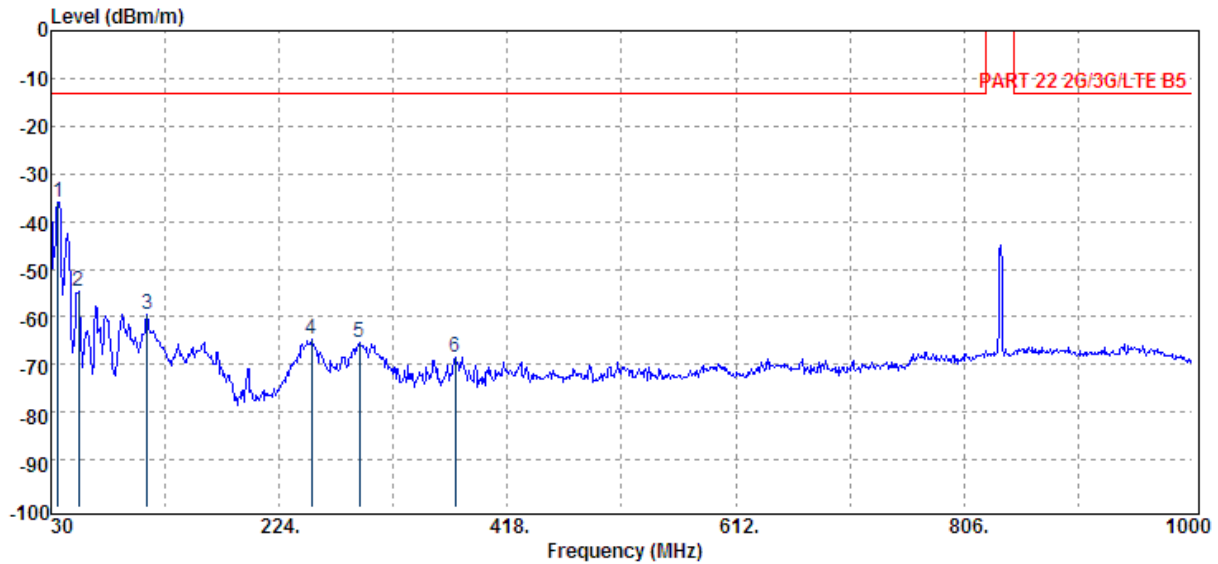
Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 190	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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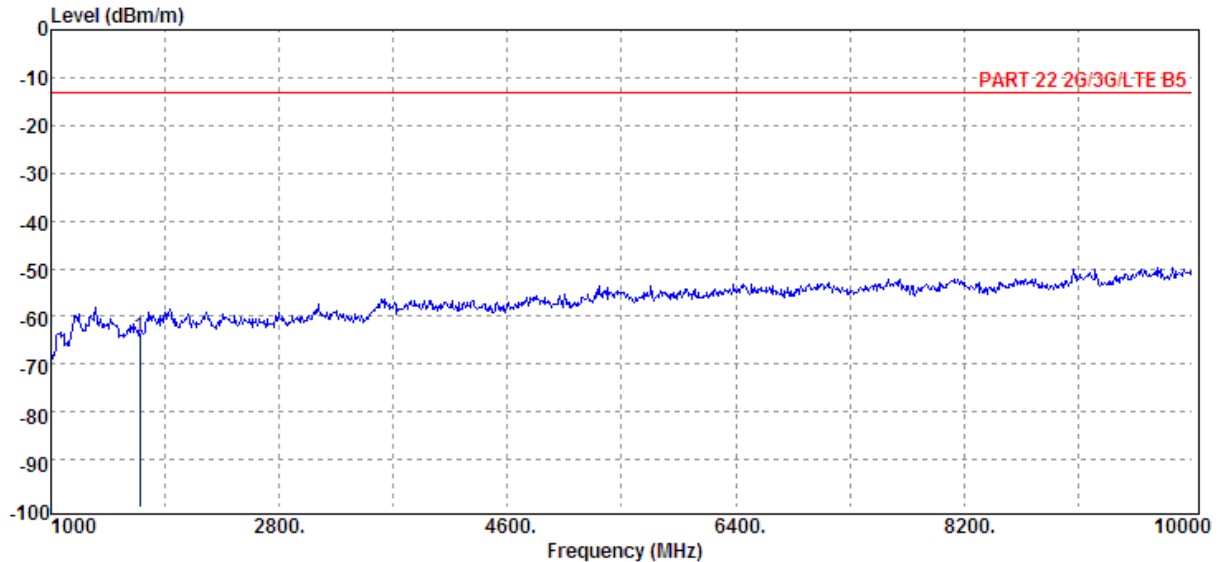
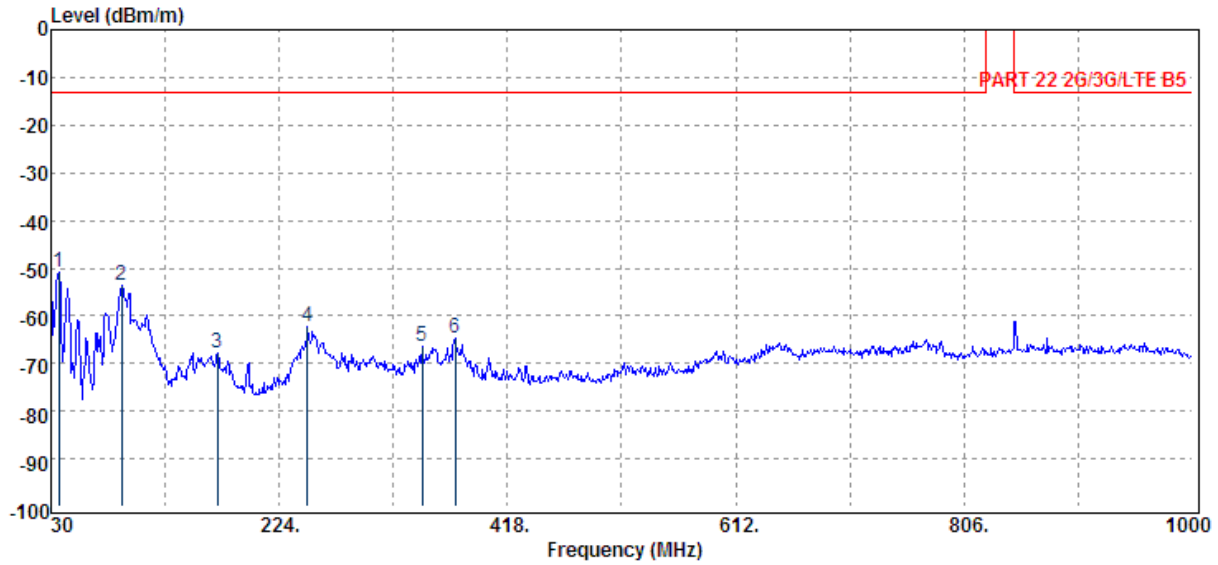
Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 190	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 251	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



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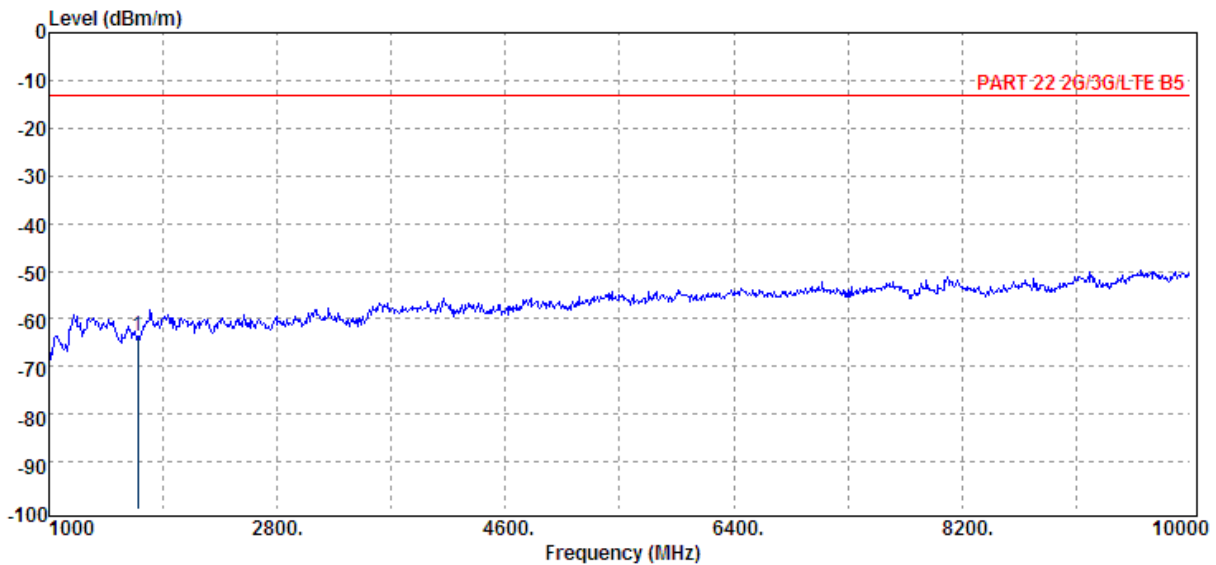
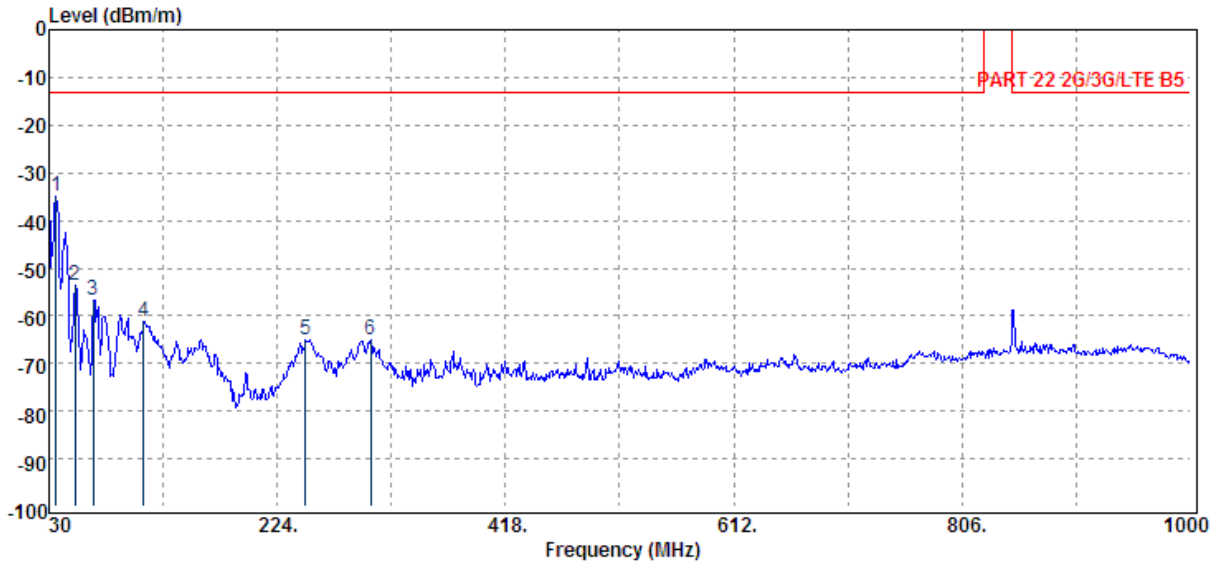
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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 251	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		

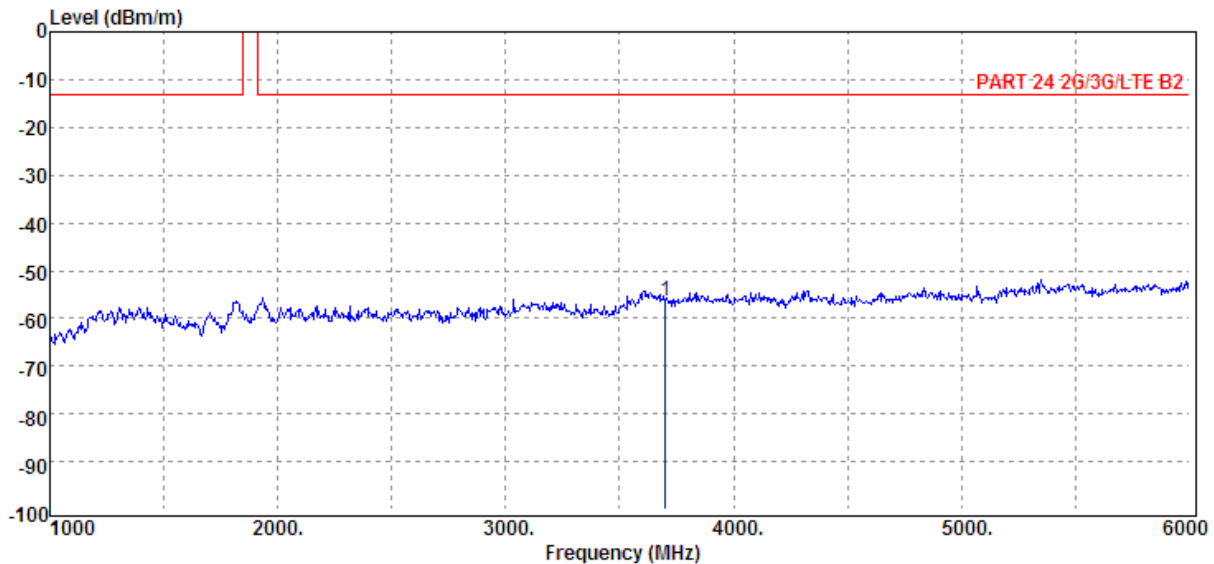
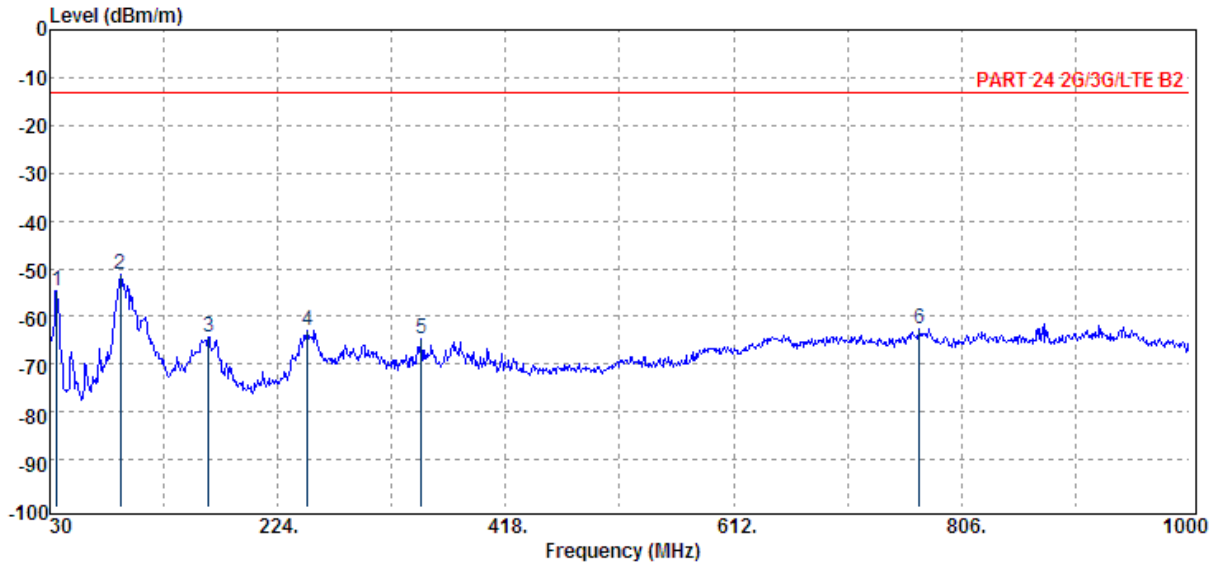


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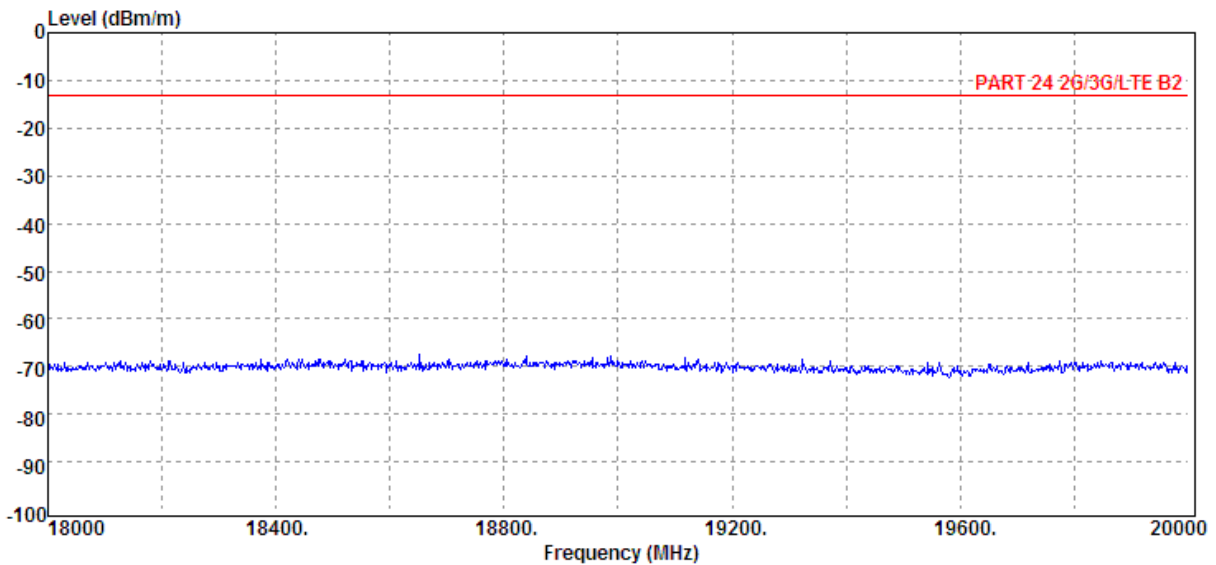
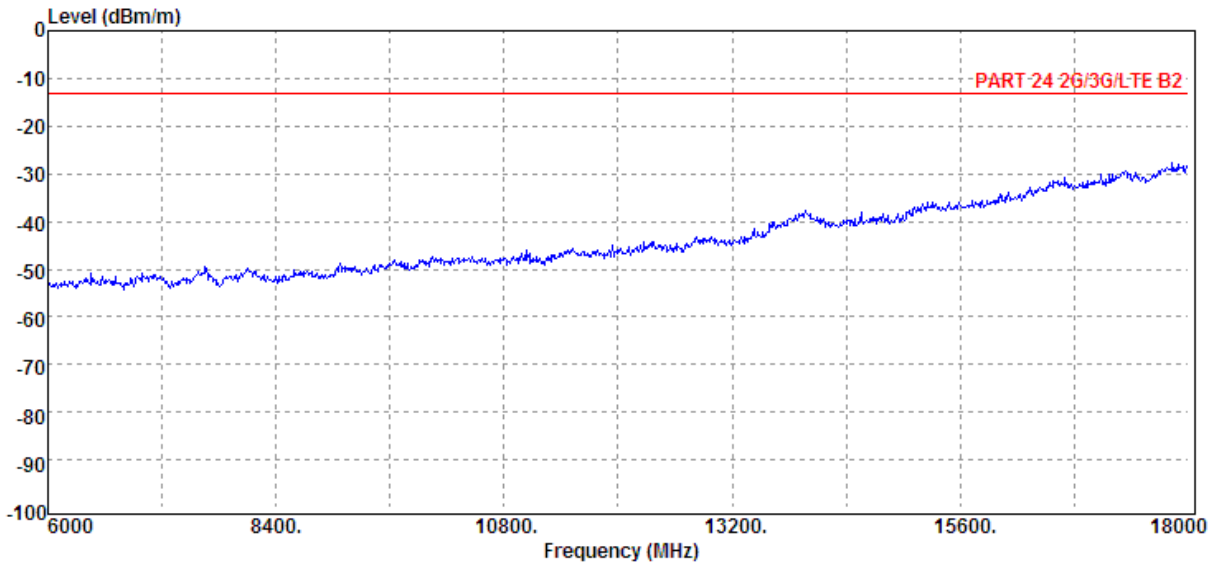
Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 512	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



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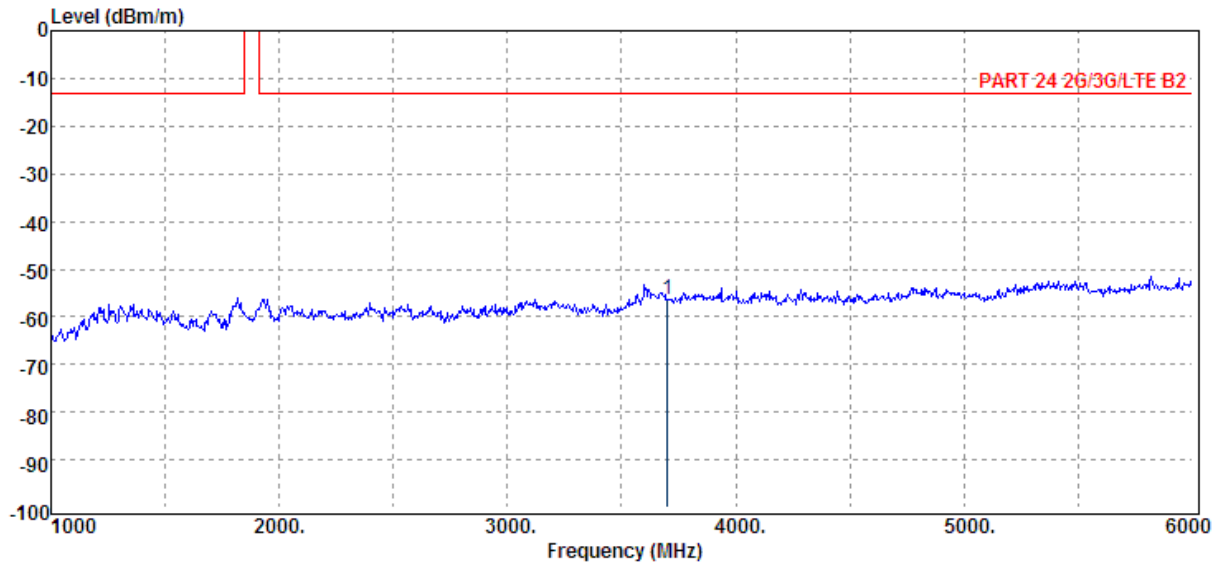
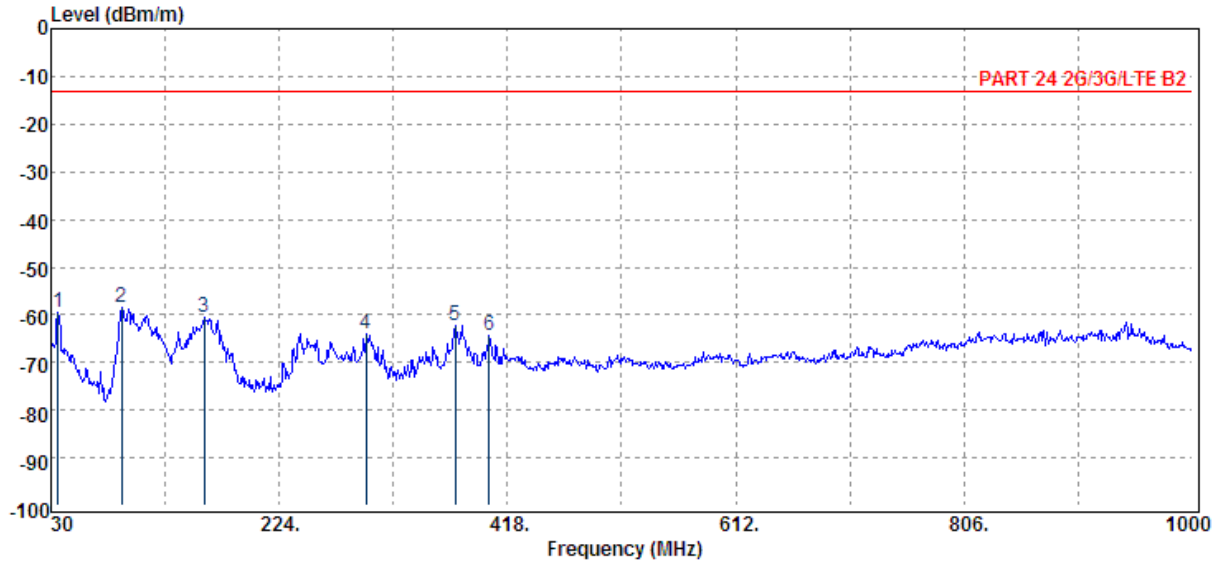
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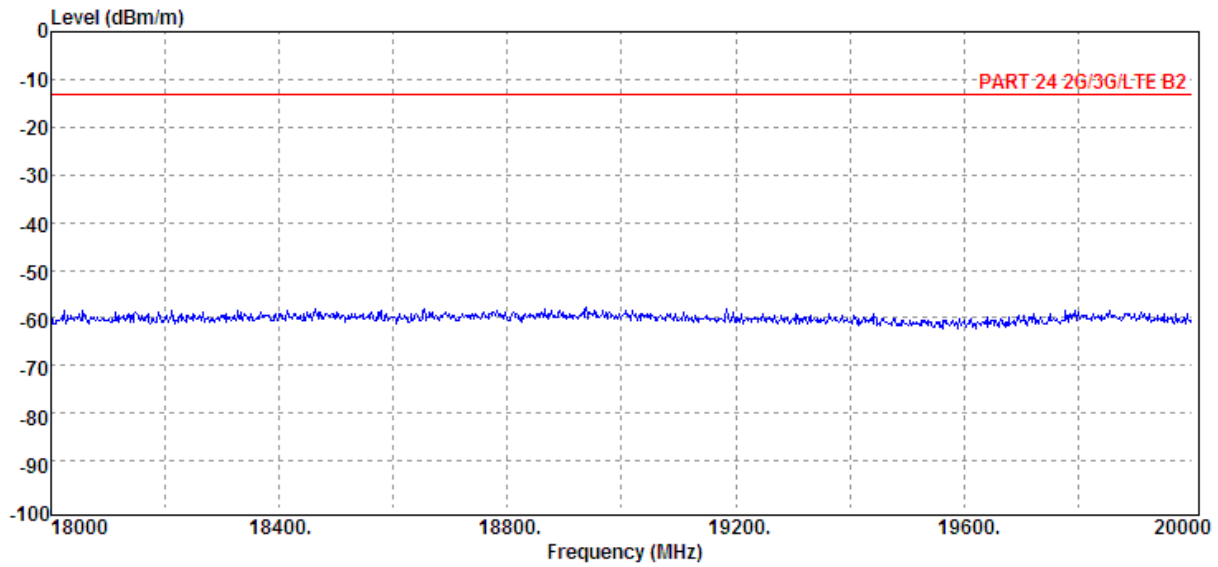
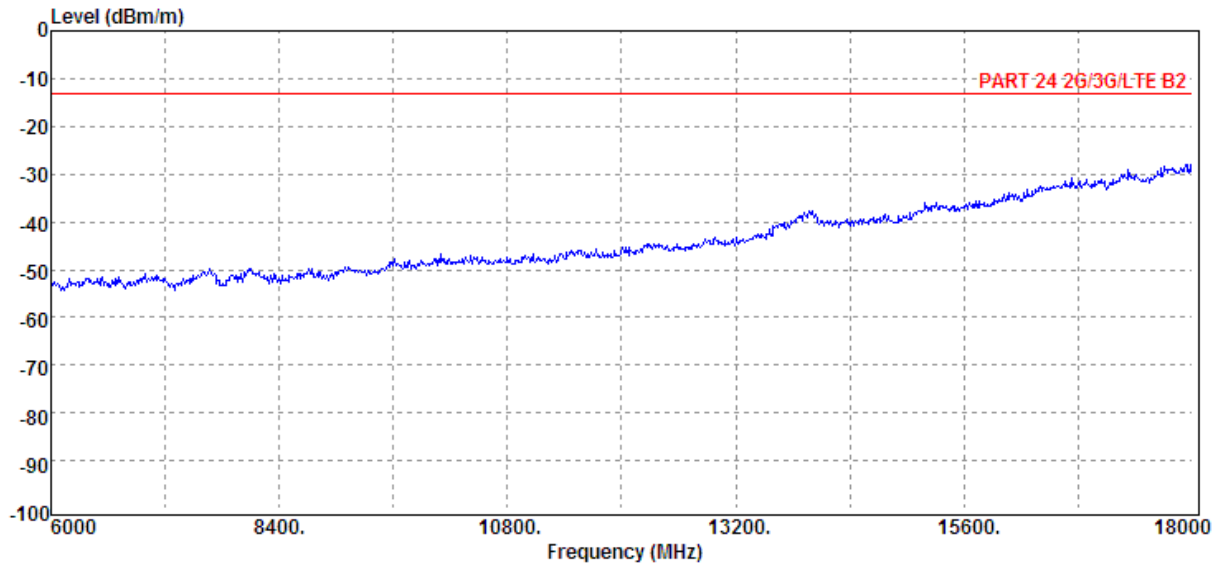
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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 512	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



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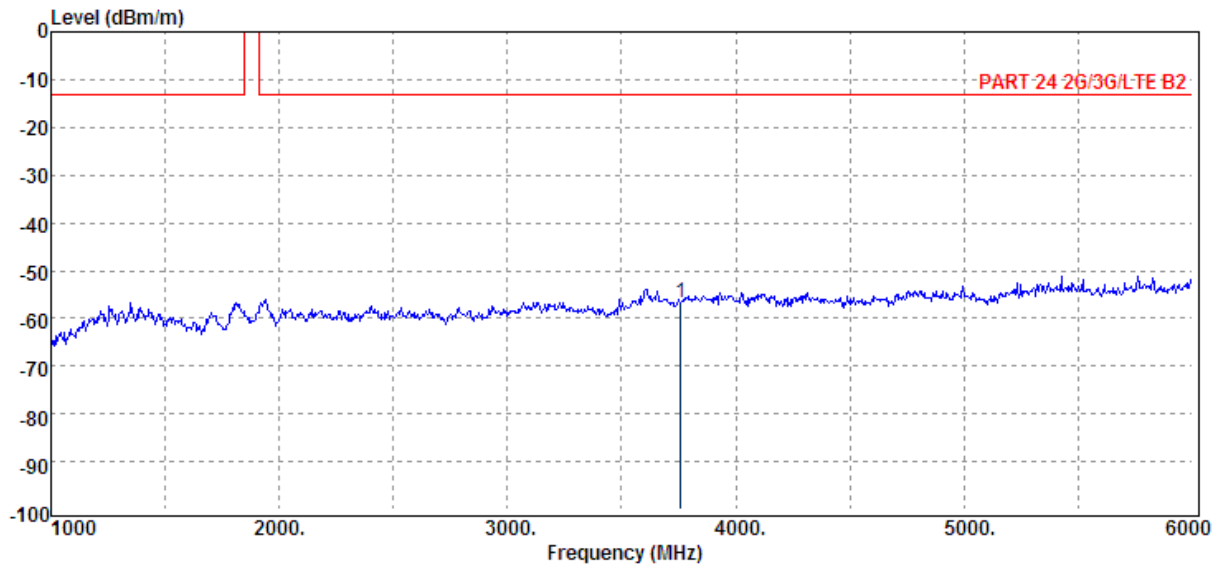
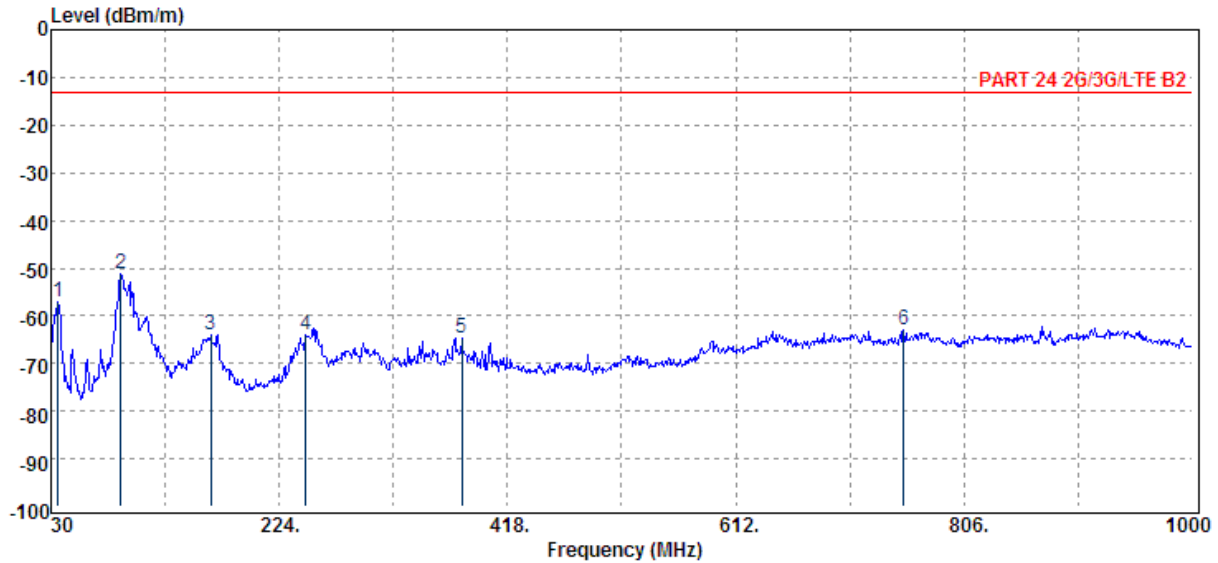
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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 661	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



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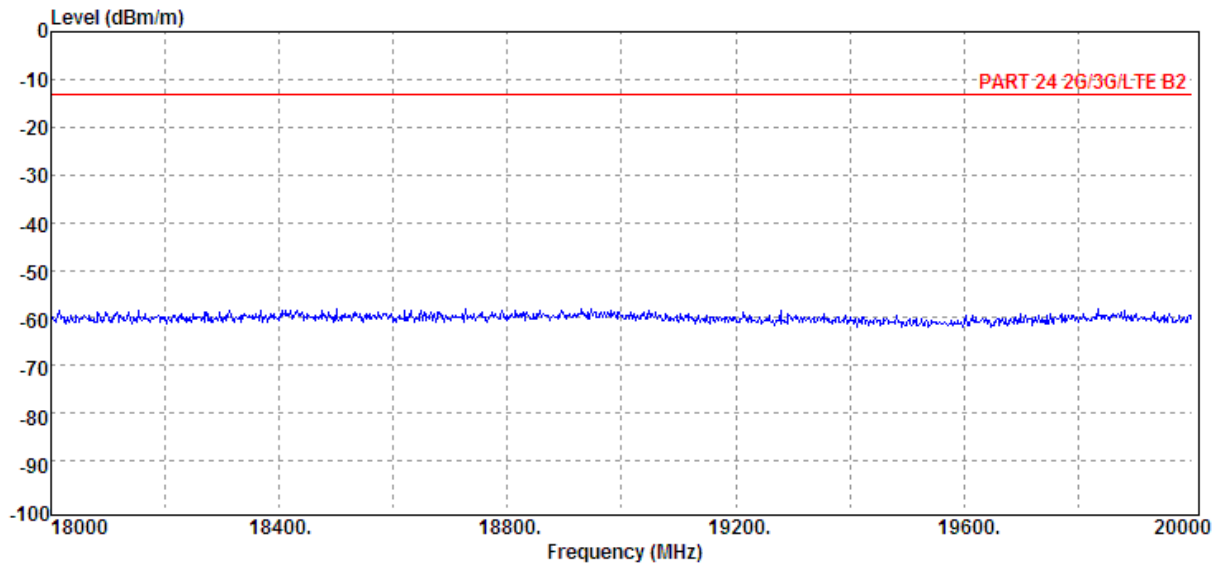
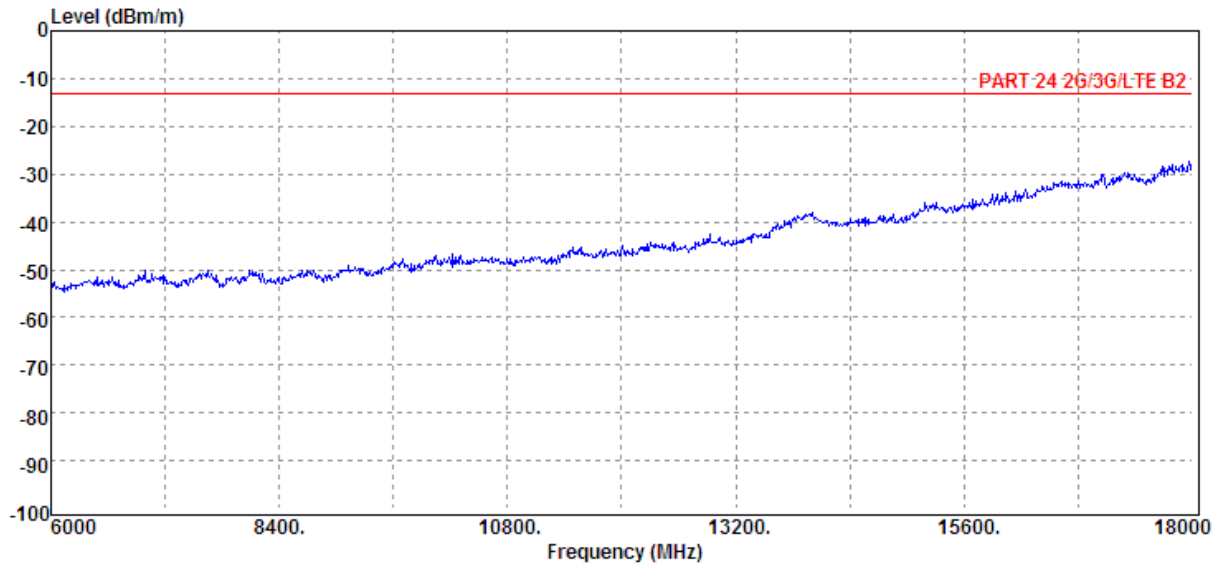
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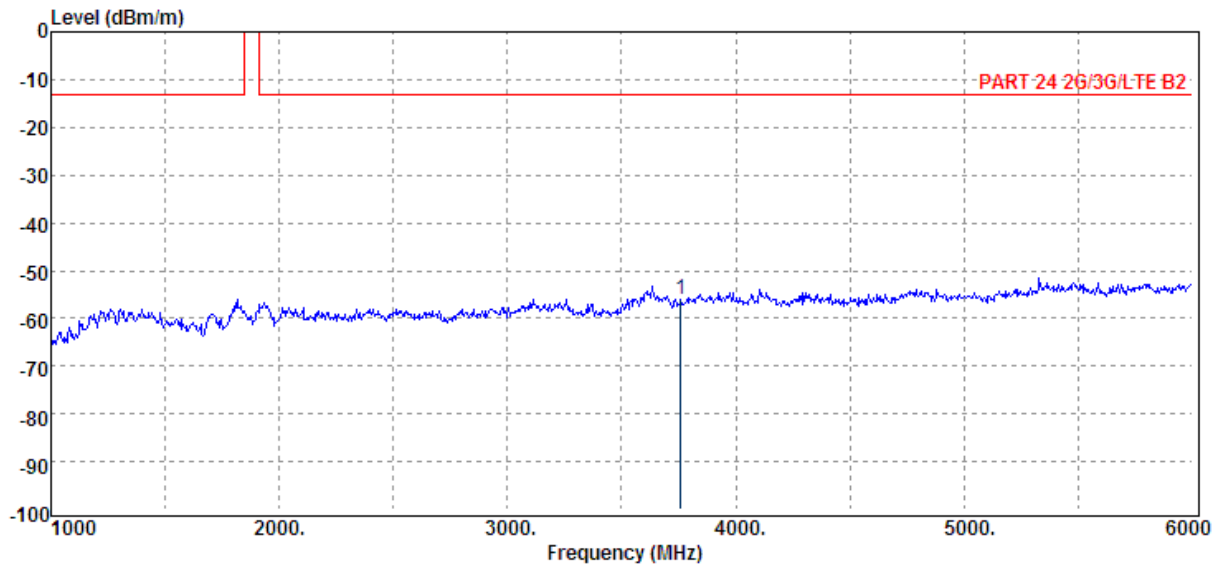
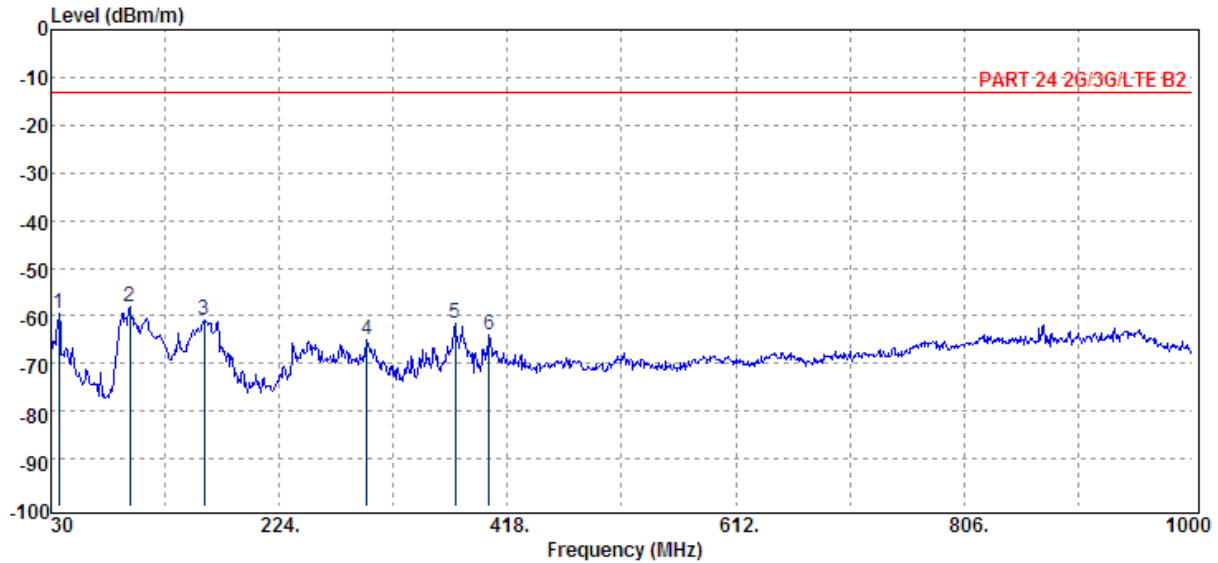
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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 661	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



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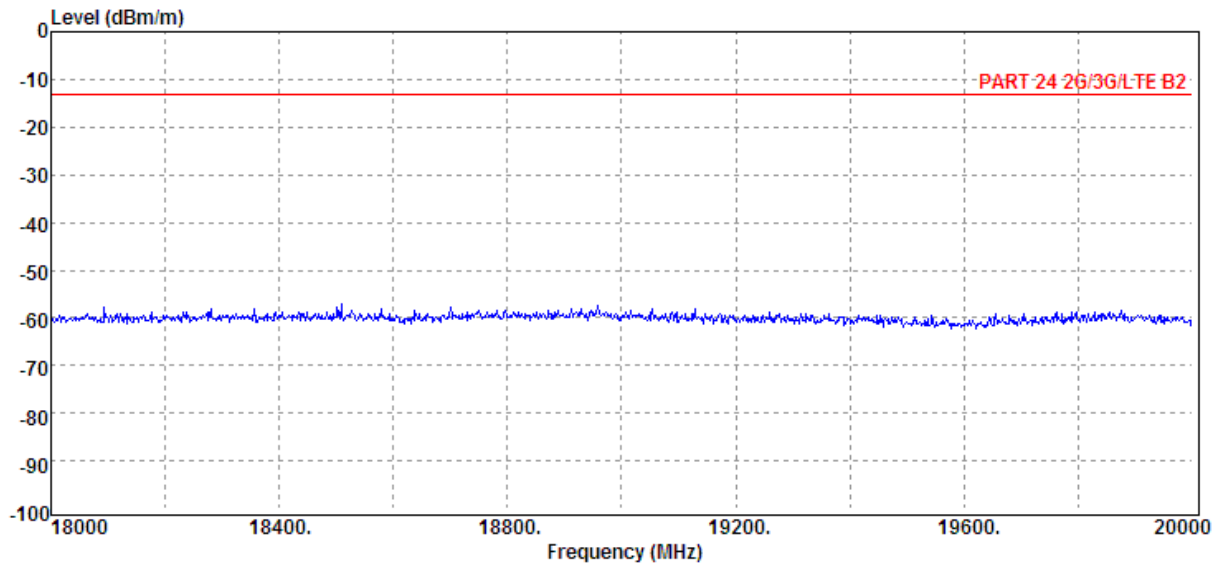
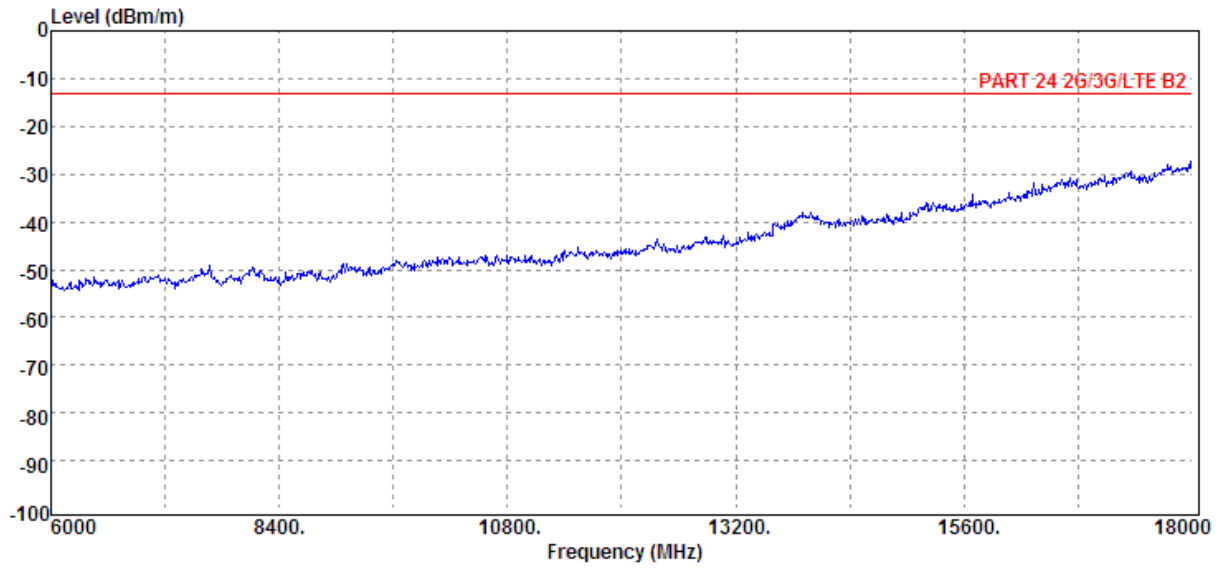
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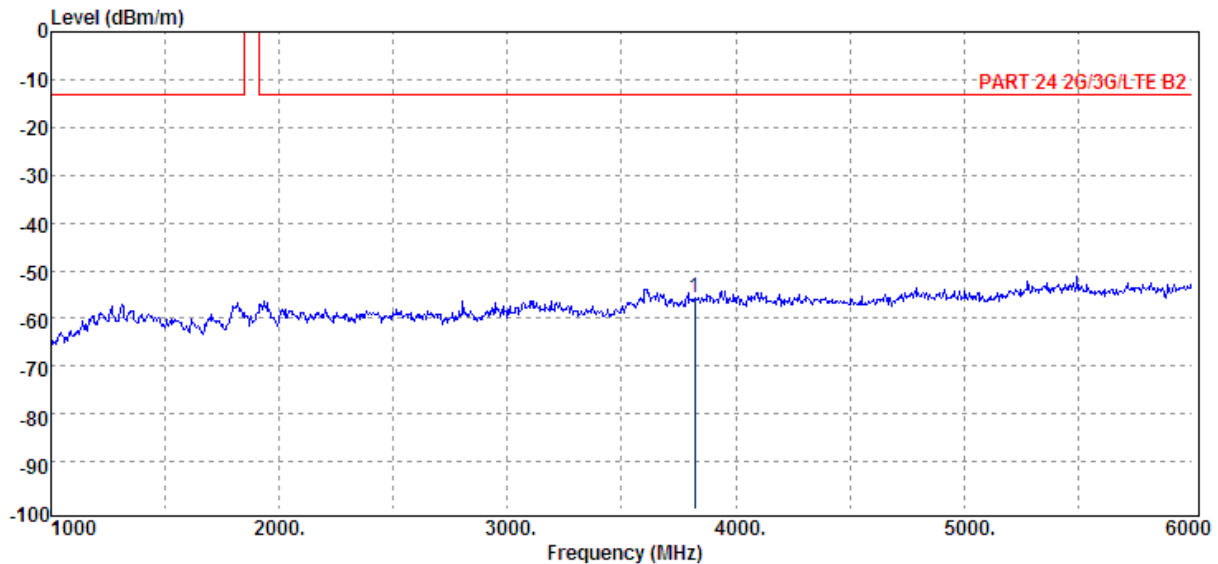
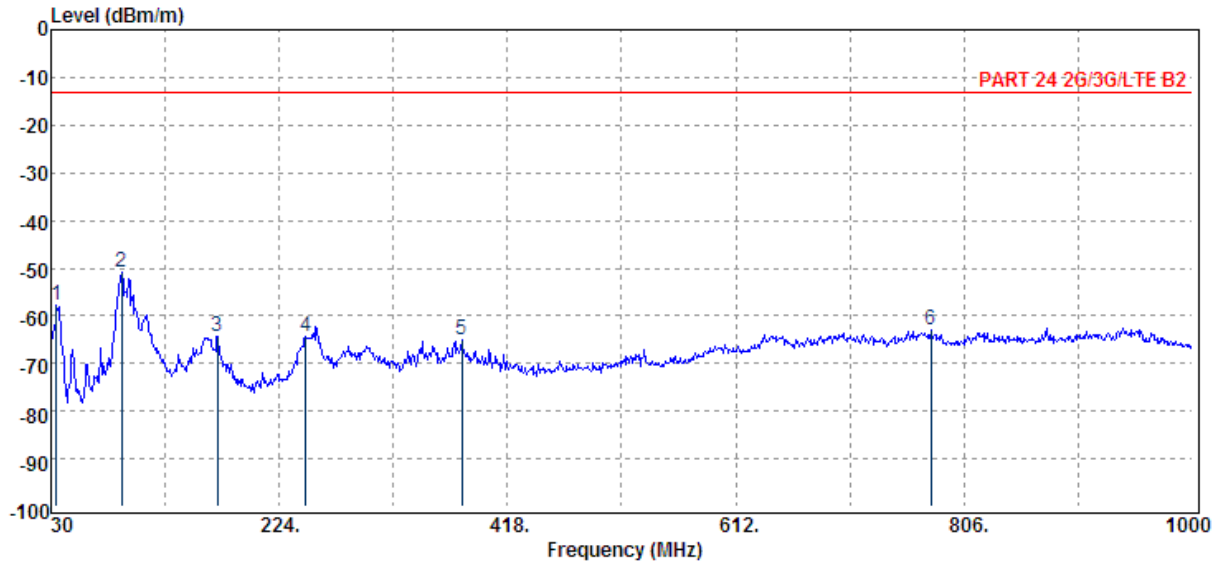
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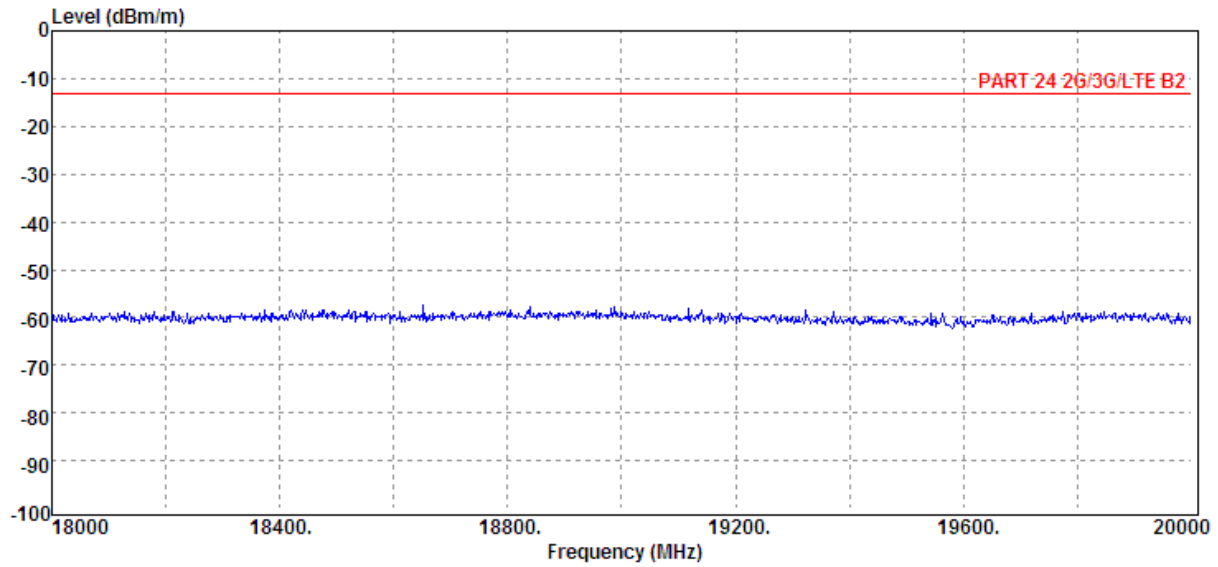
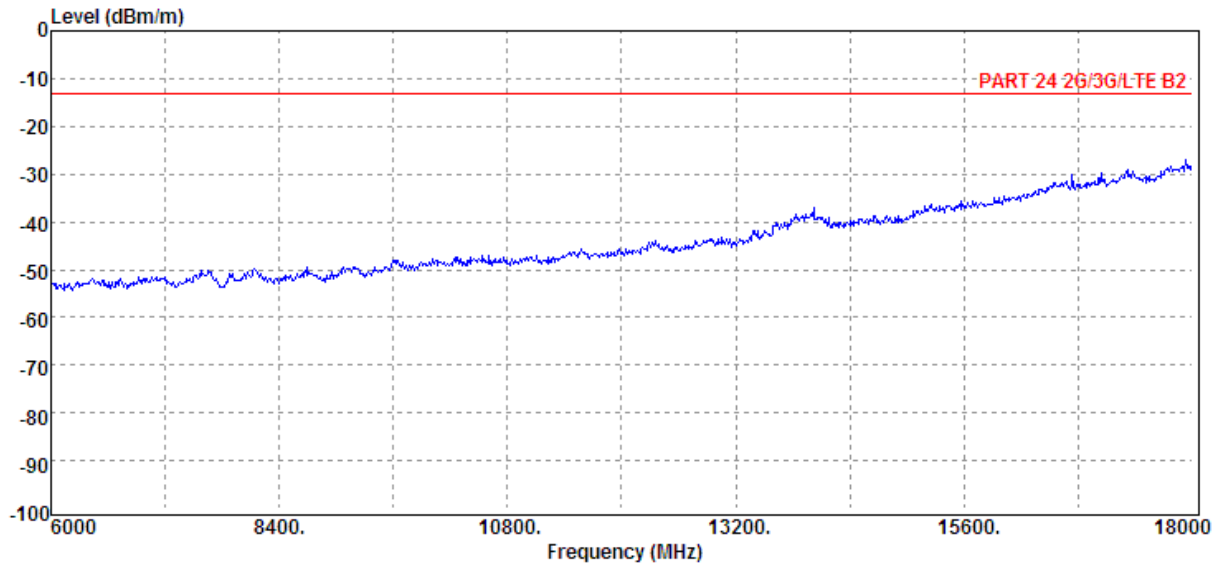
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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 810	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



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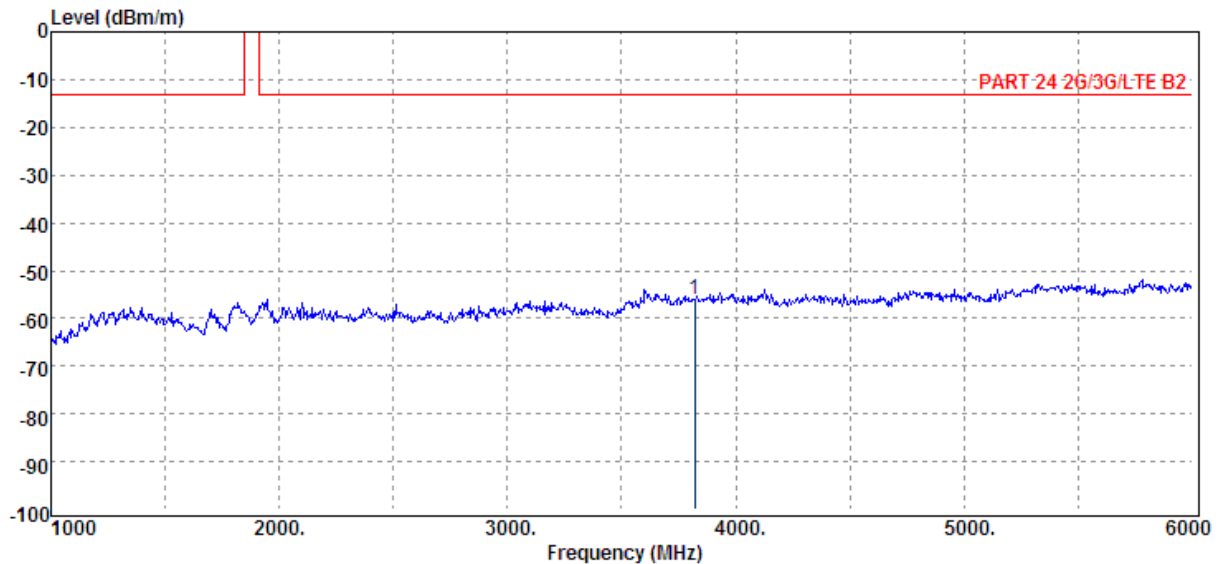
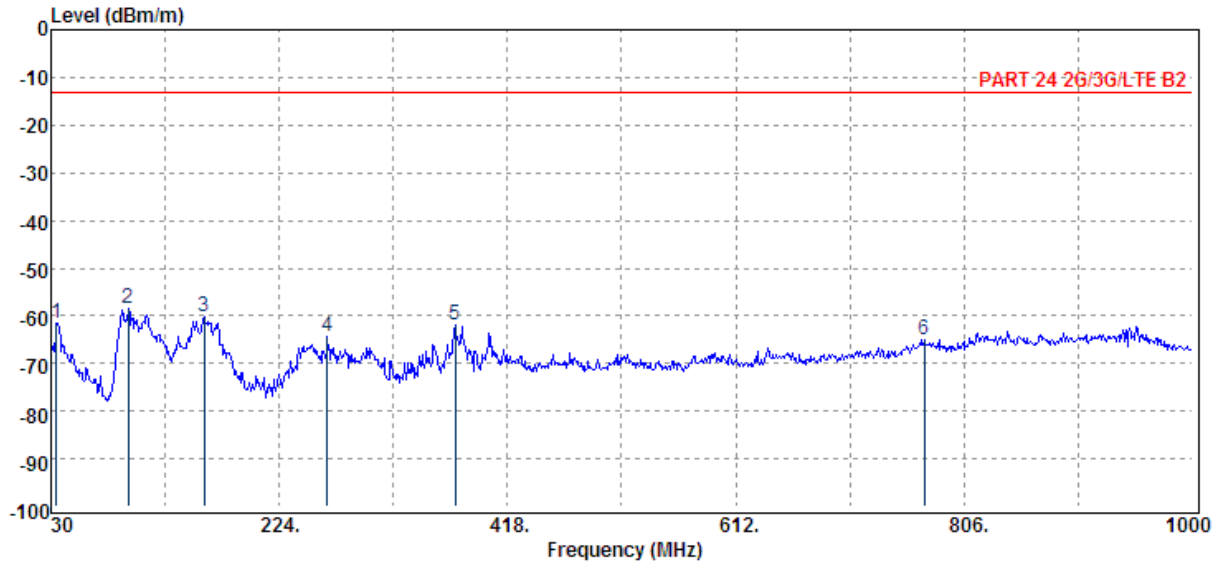
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Operation Band	:GSM 1900	Test Date	:2014-03-01
ARFCN	:CH 810	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



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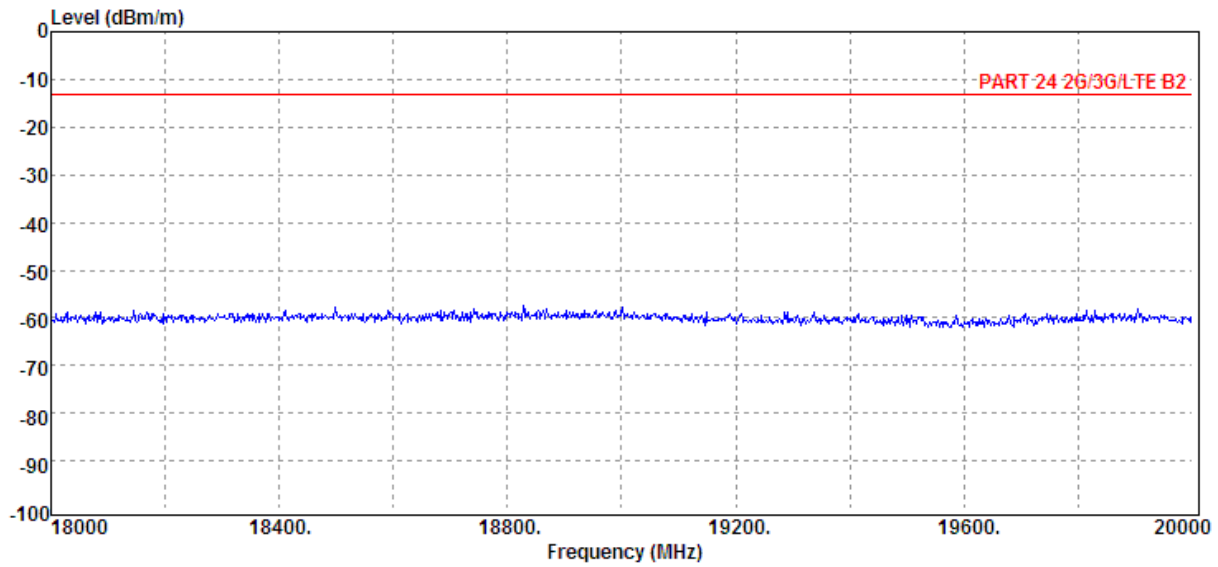
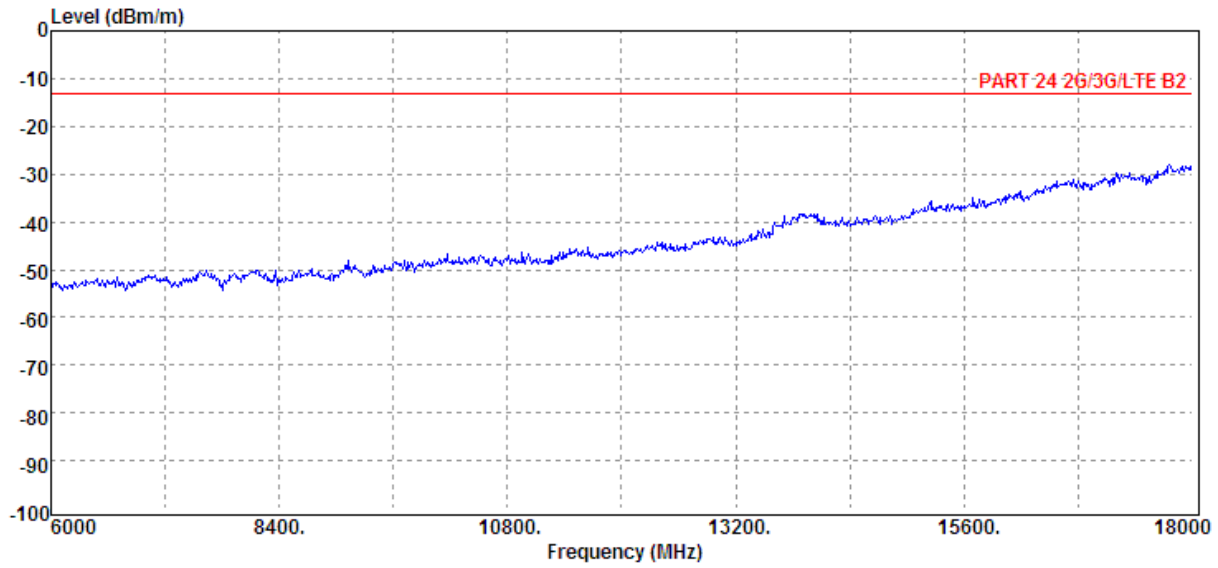
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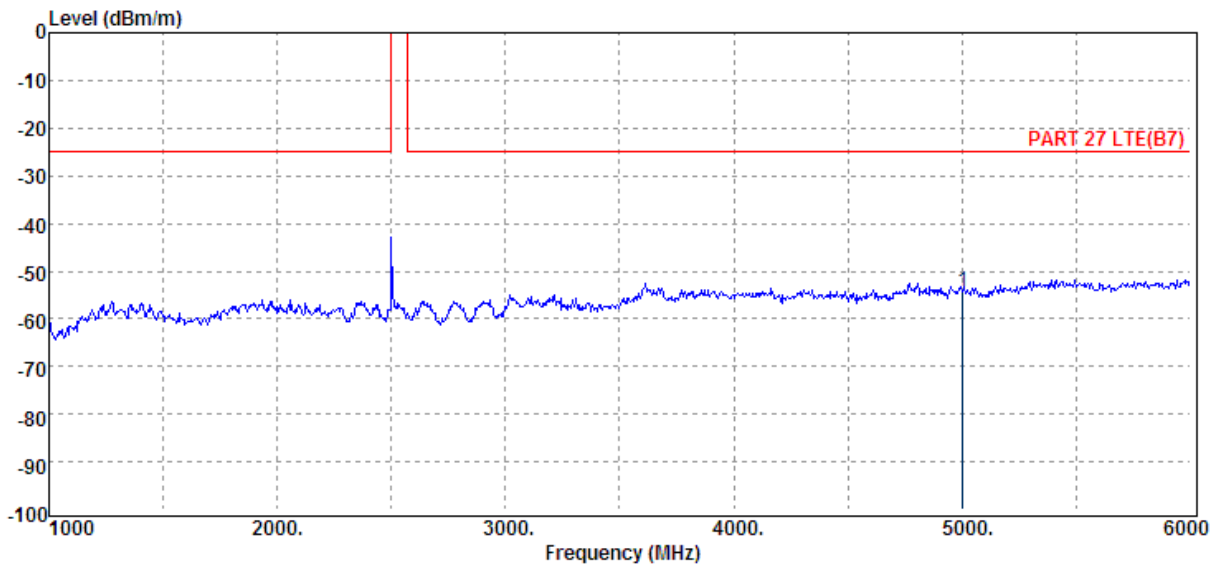
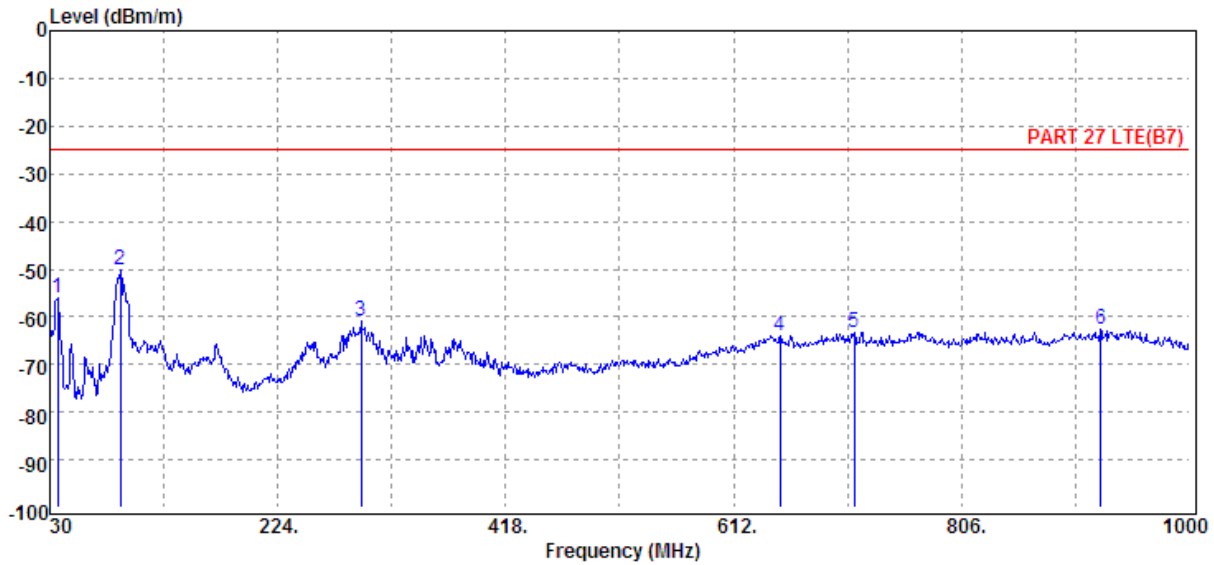


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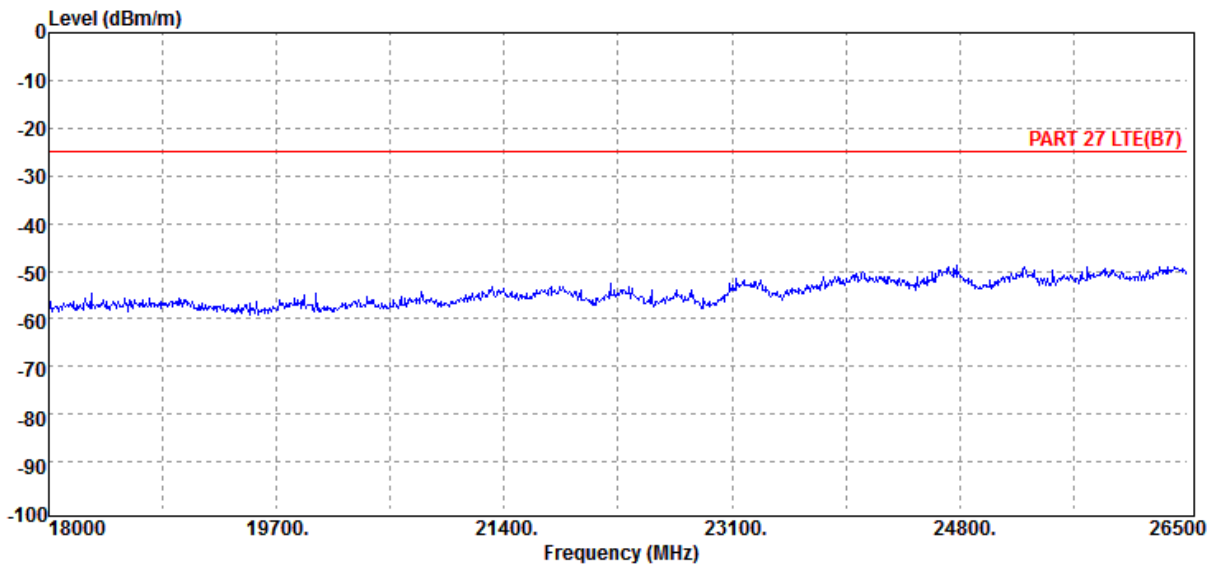
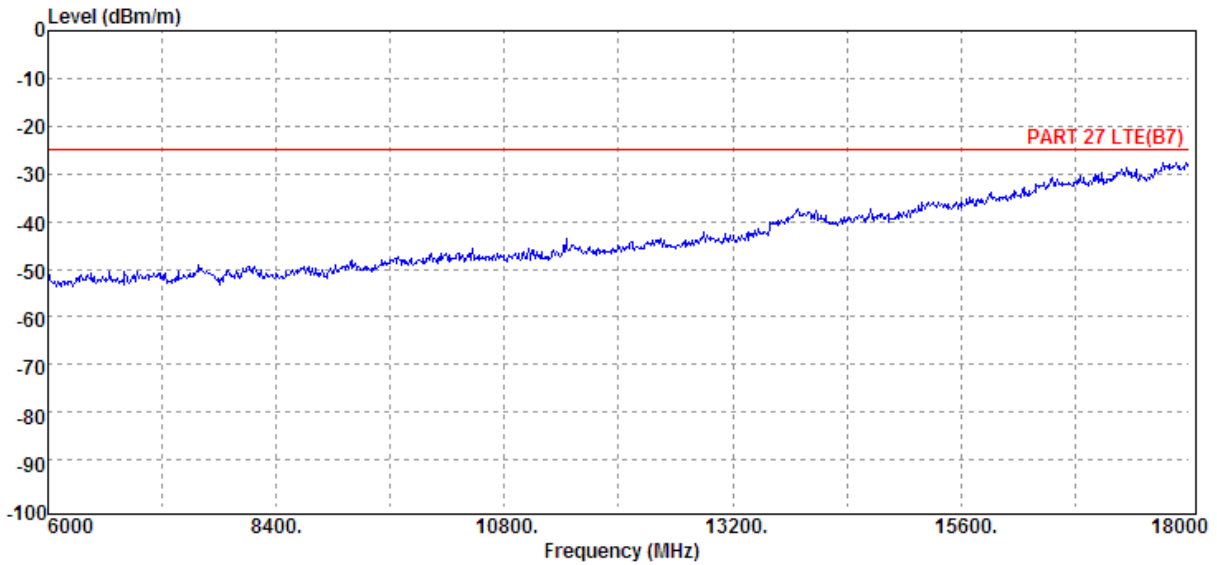
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)

Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 20775 16QAM BW 5	Temp./Humi.	:18.6 deg_C / 67 RH
	RB 1 0	Engineer	:Allen
Fundamental Frequency	:2502.5 MHz	Measurement Antenna Pol.	:VERTICAL
Operation Mode	:TX LOW		
EUT Pol.	:H Plan		



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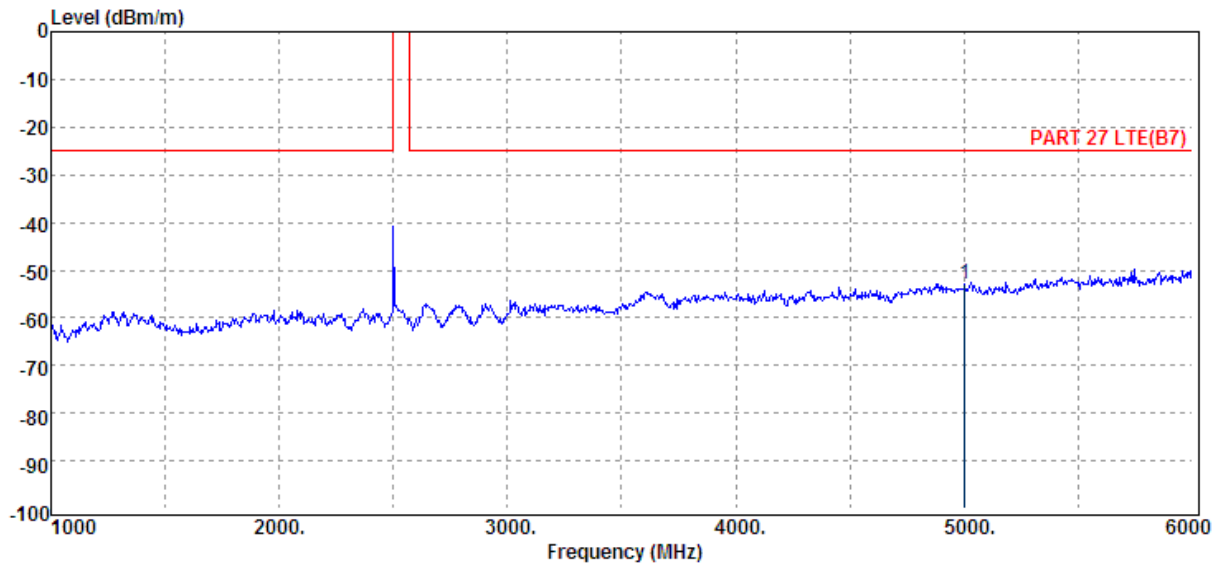
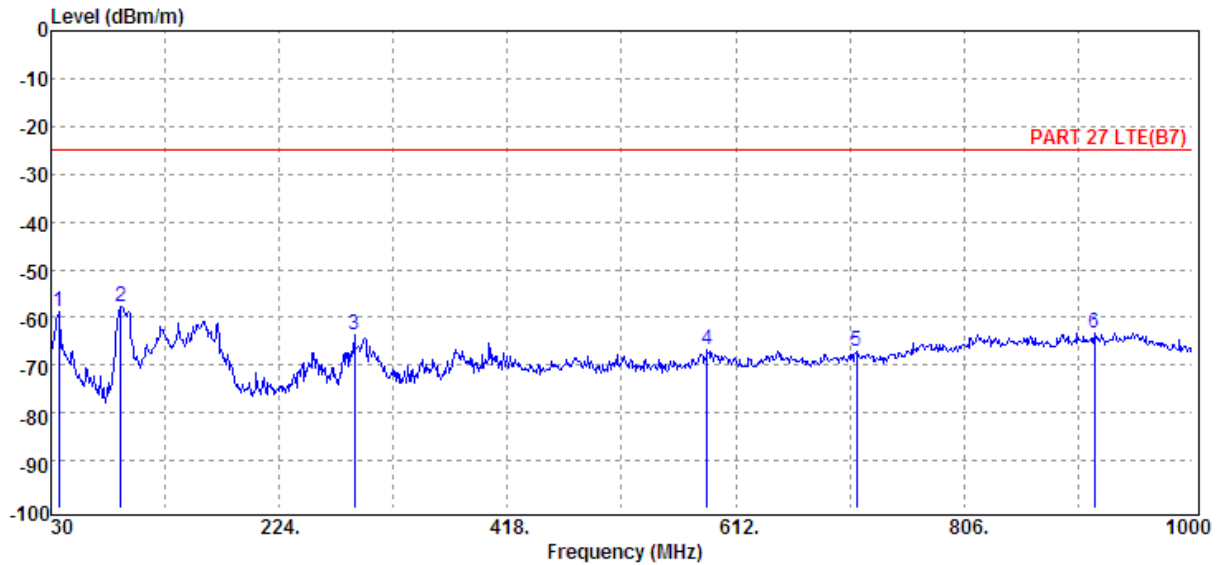
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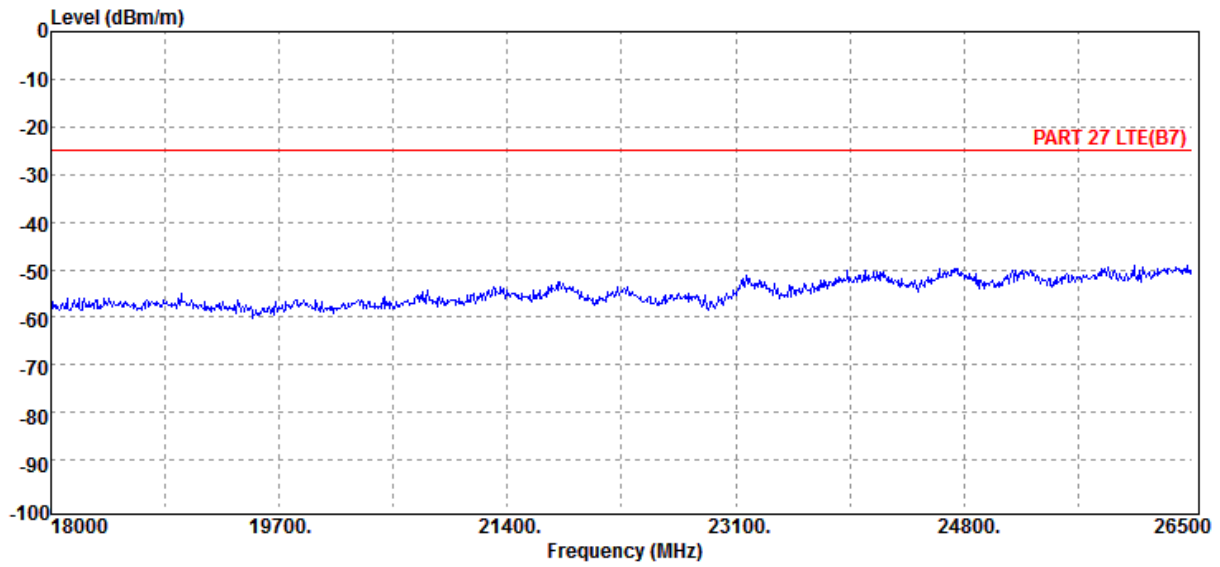
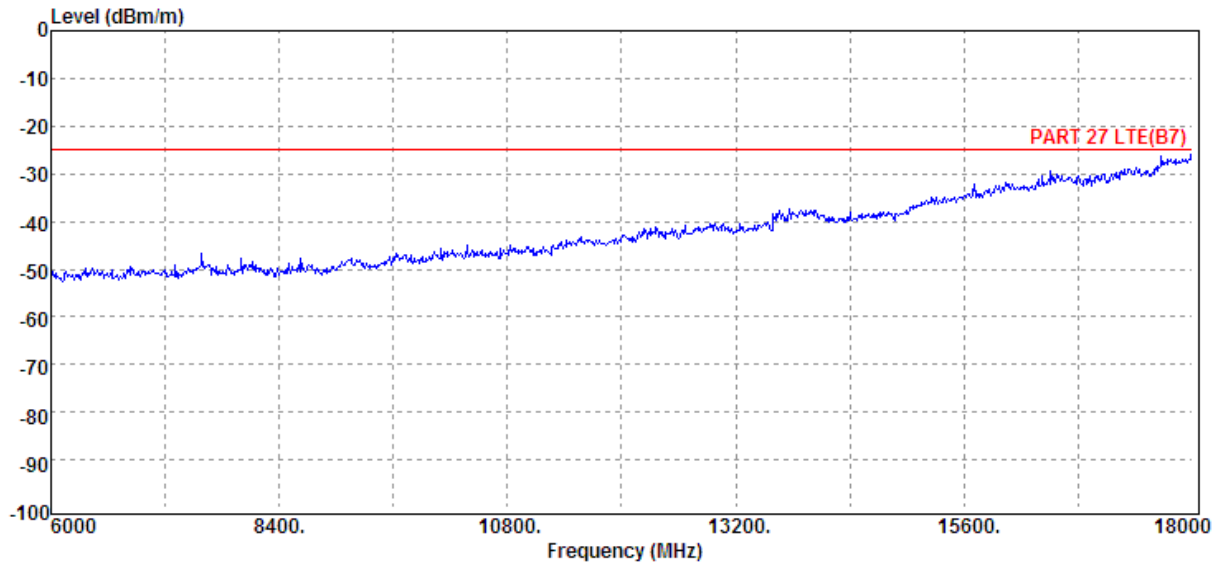
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Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 20775 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Allen
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



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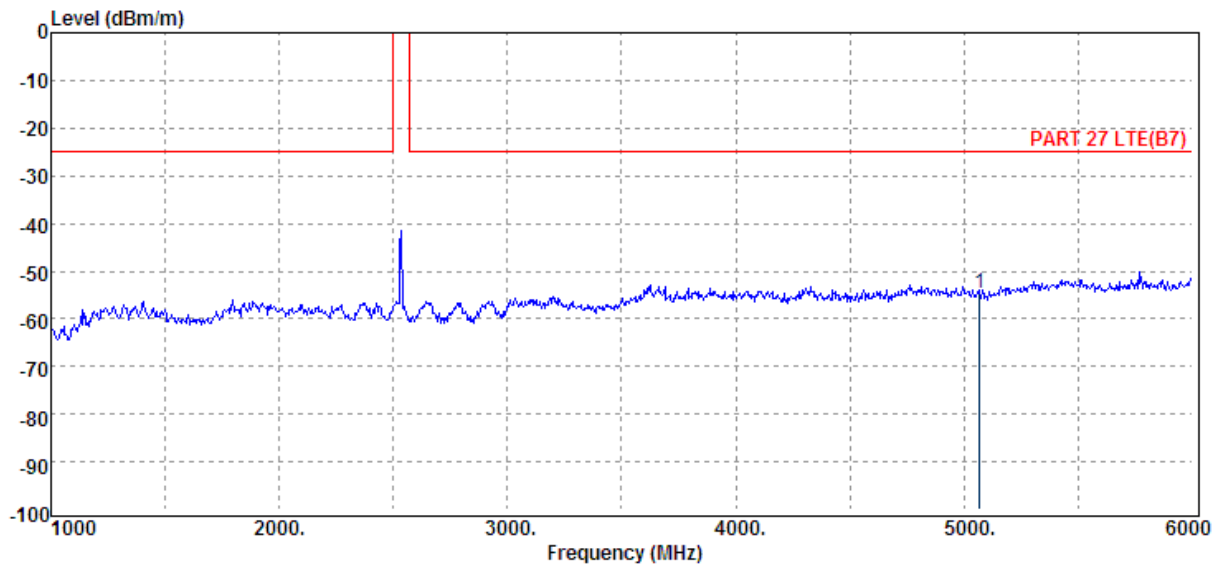
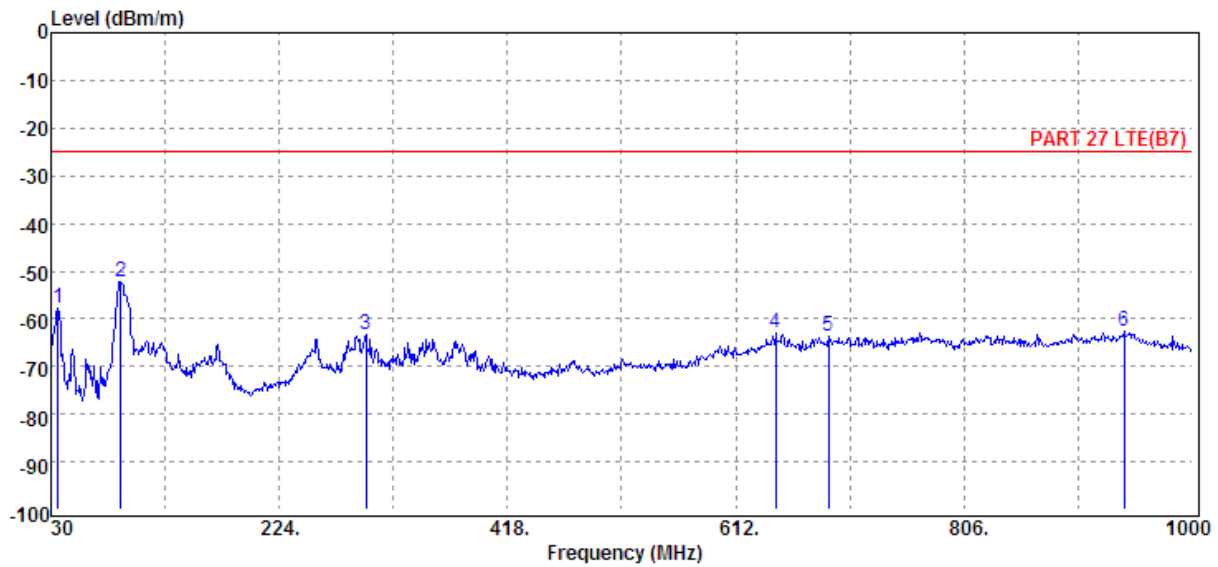
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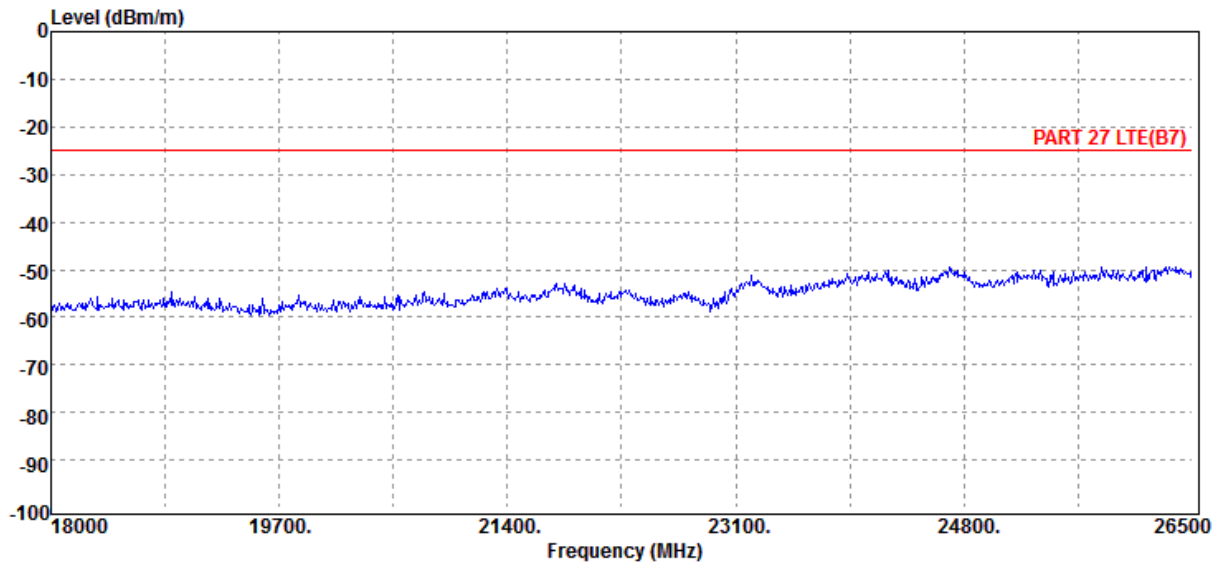
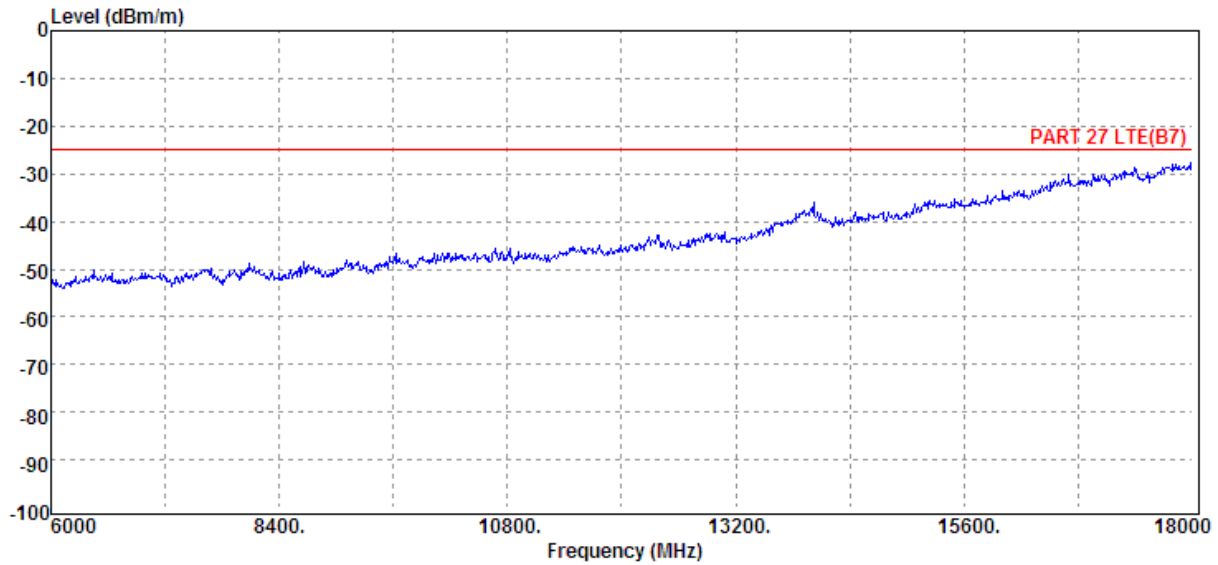
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Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Allen
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



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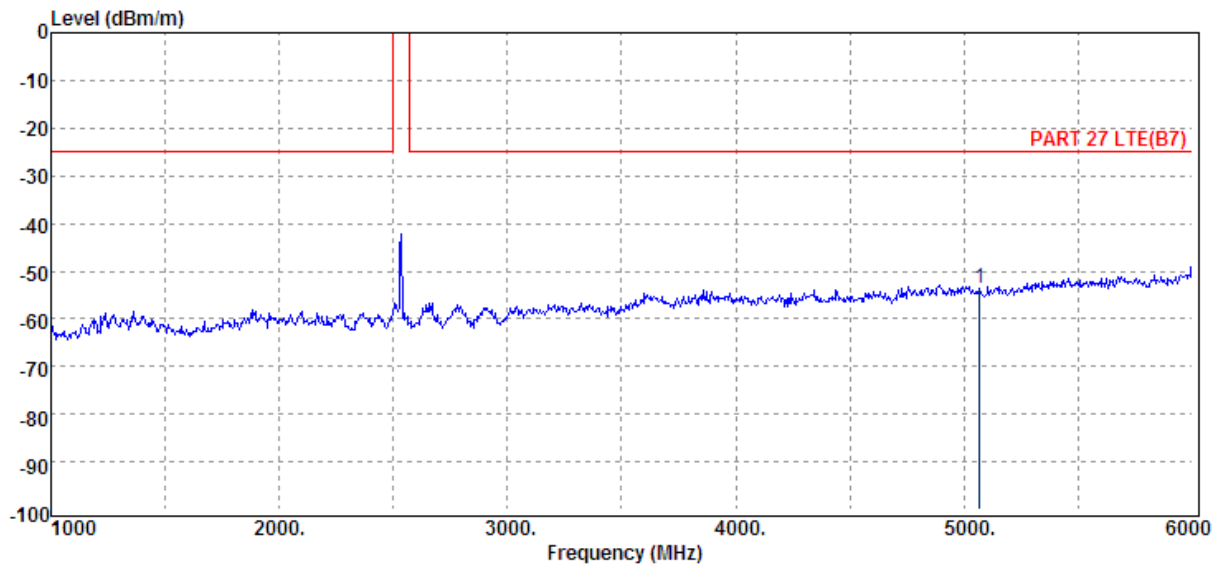
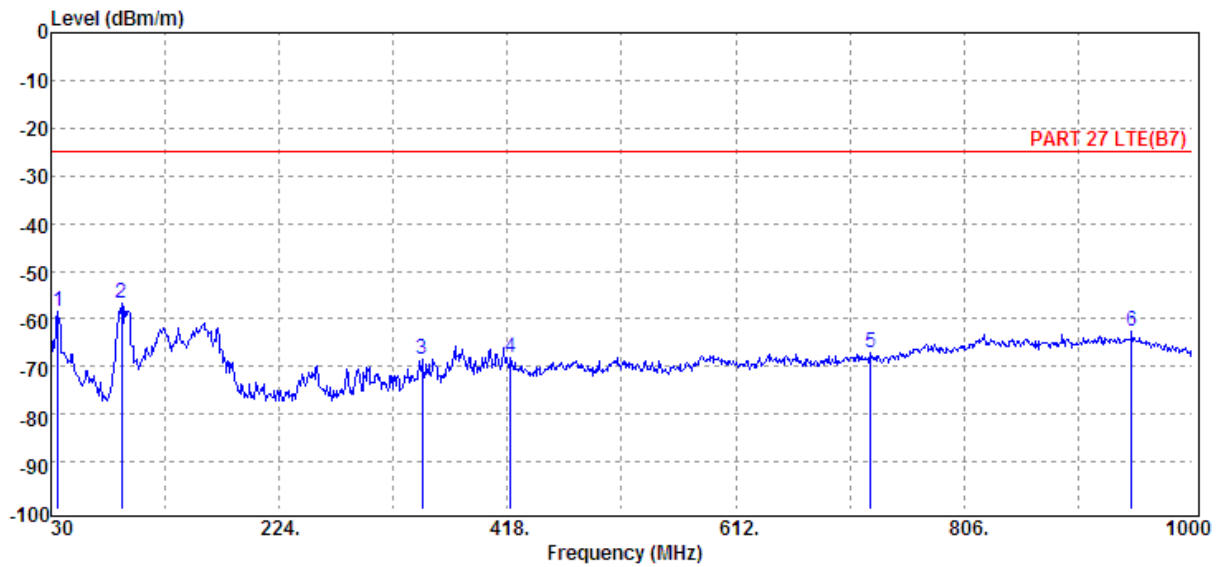
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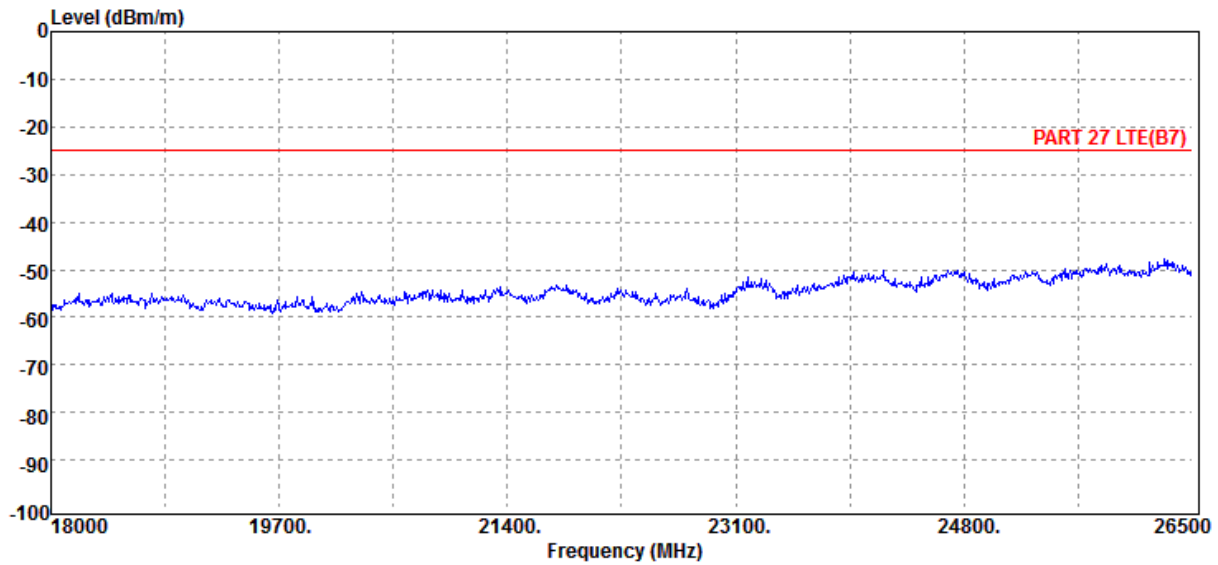
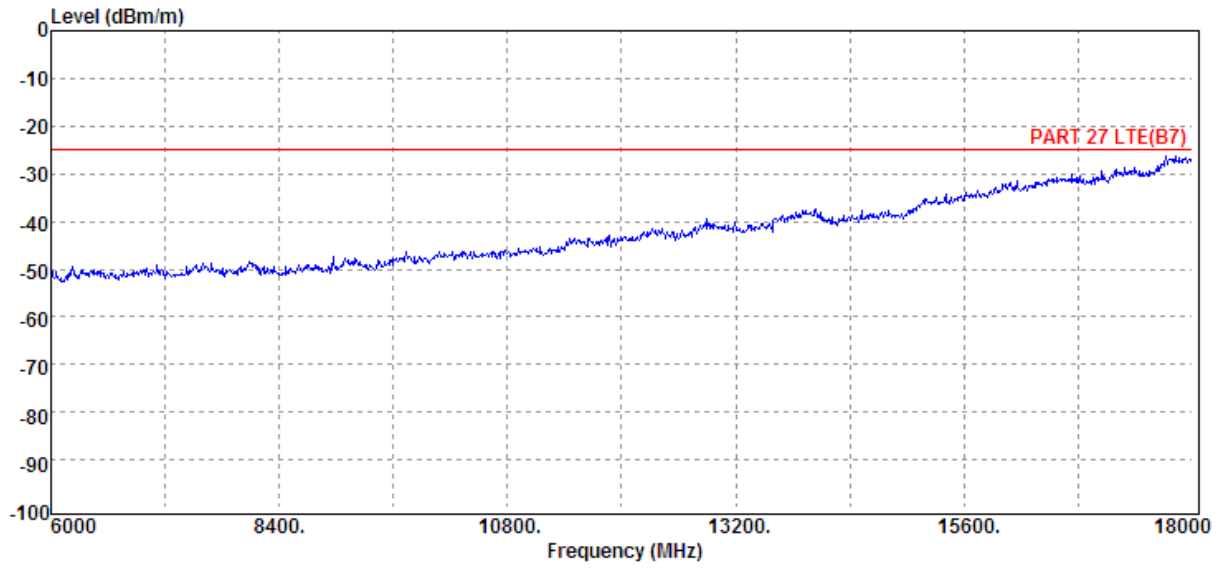
Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Allen
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



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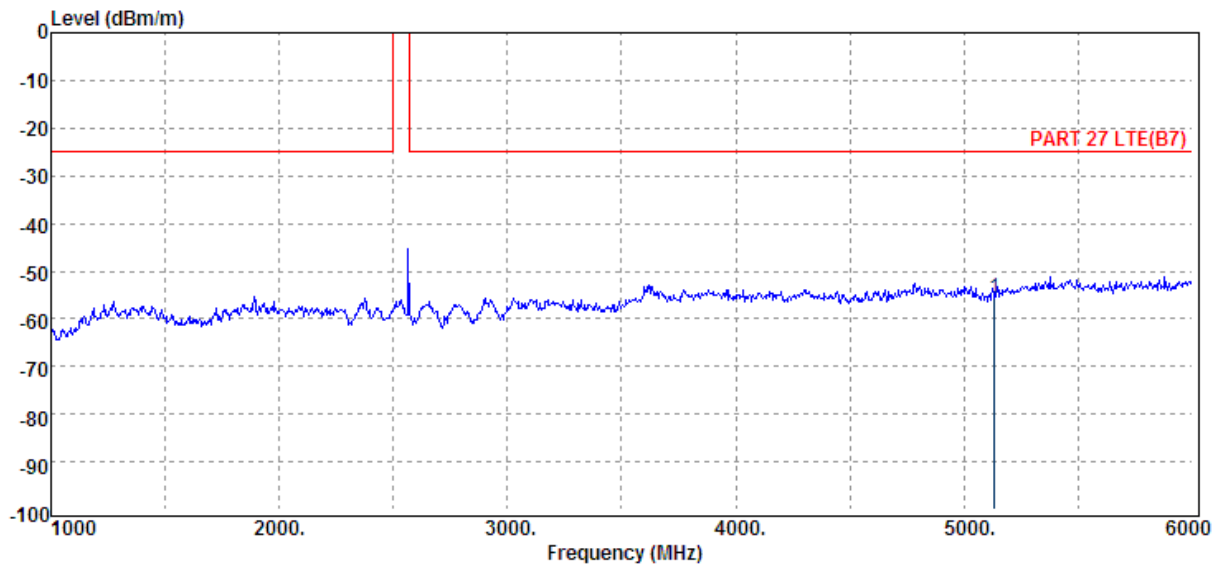
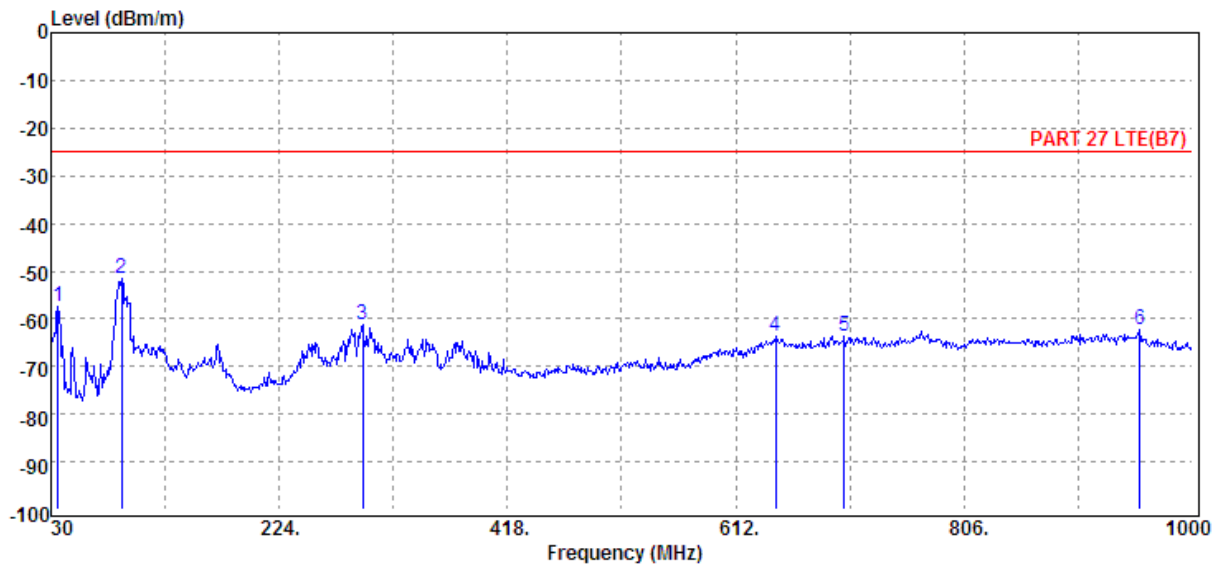
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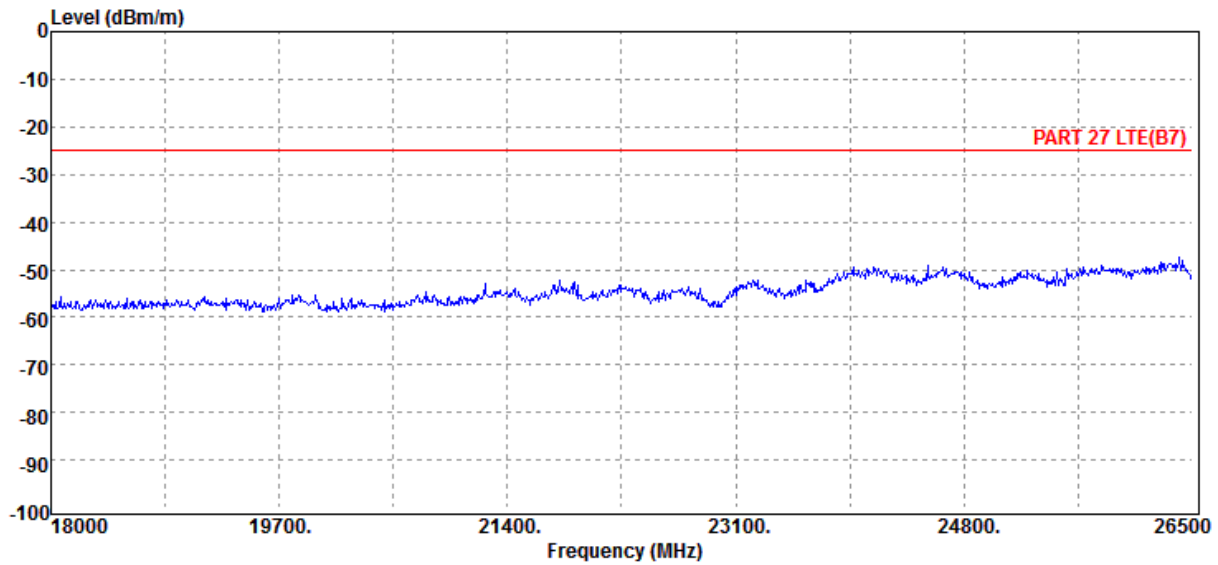
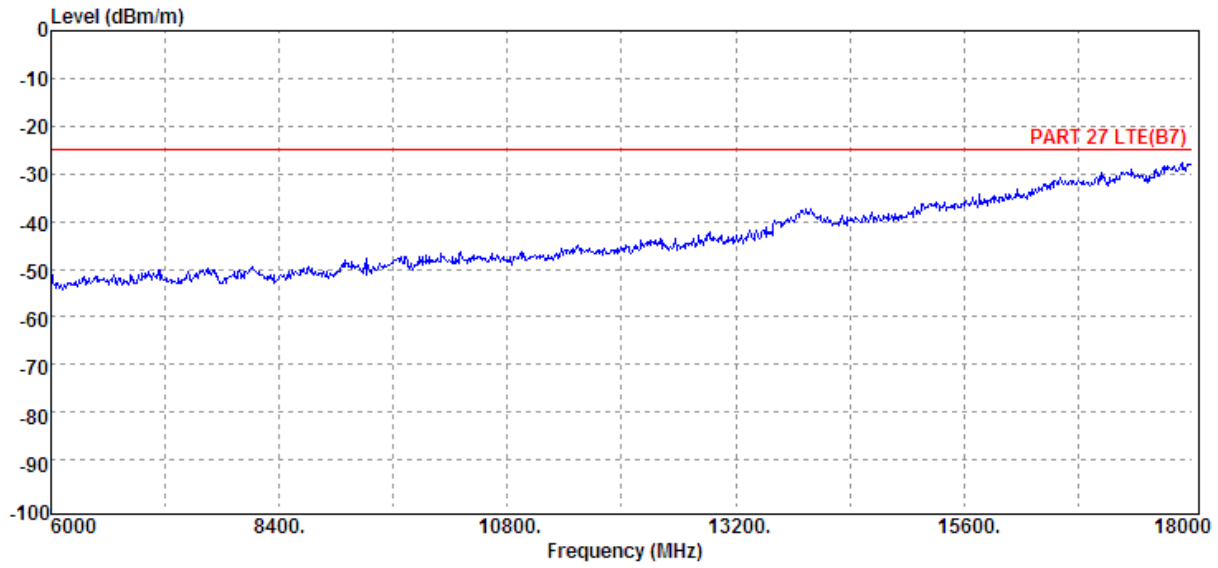
Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 21425 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



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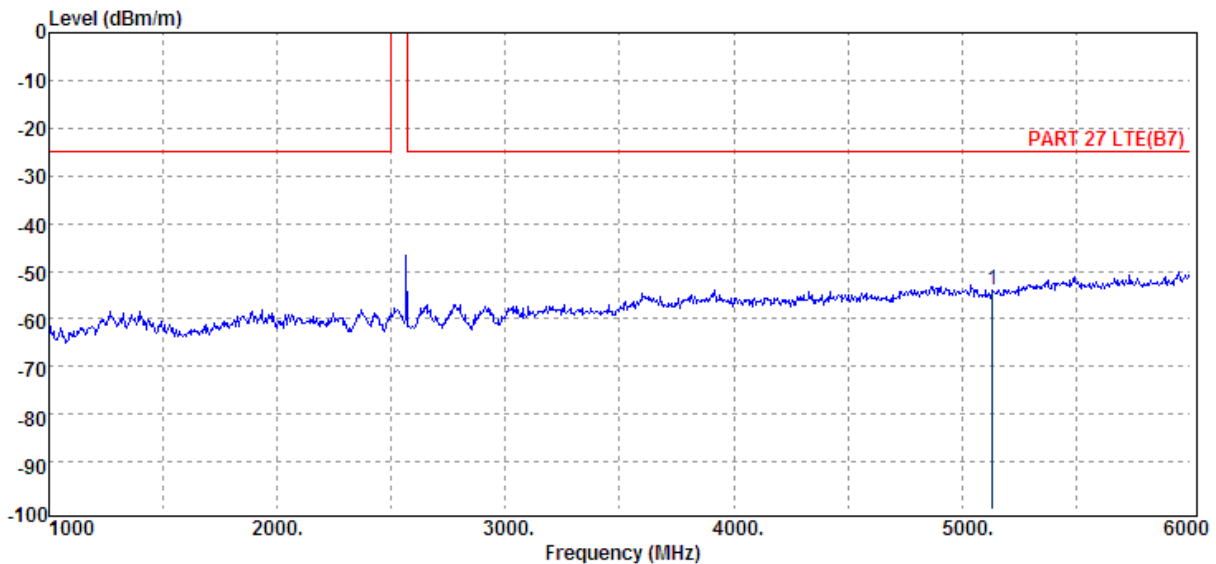
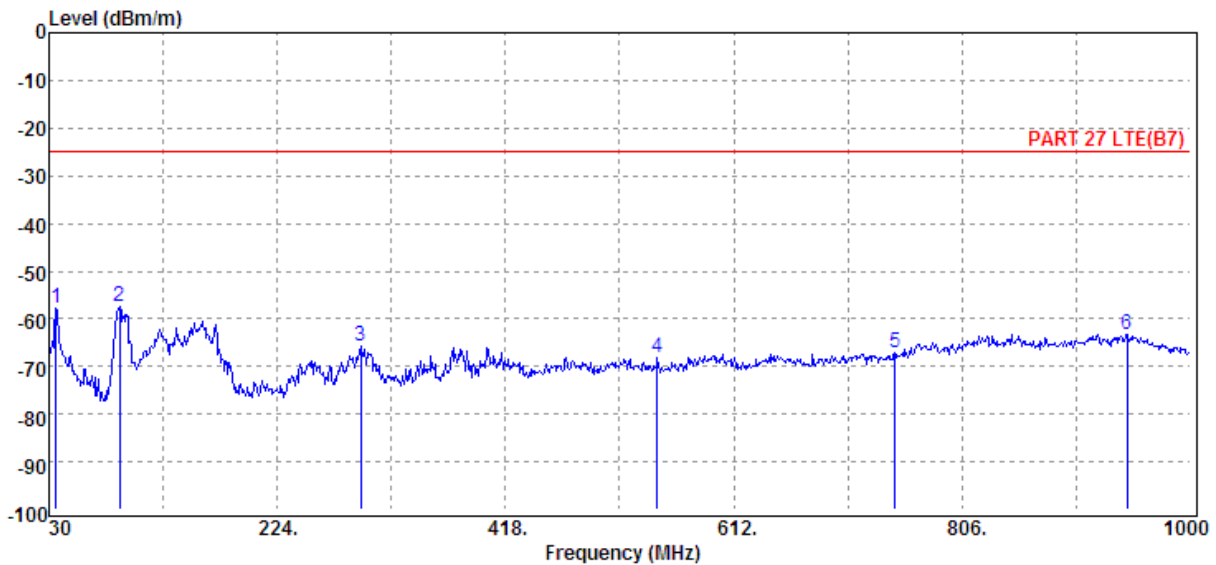
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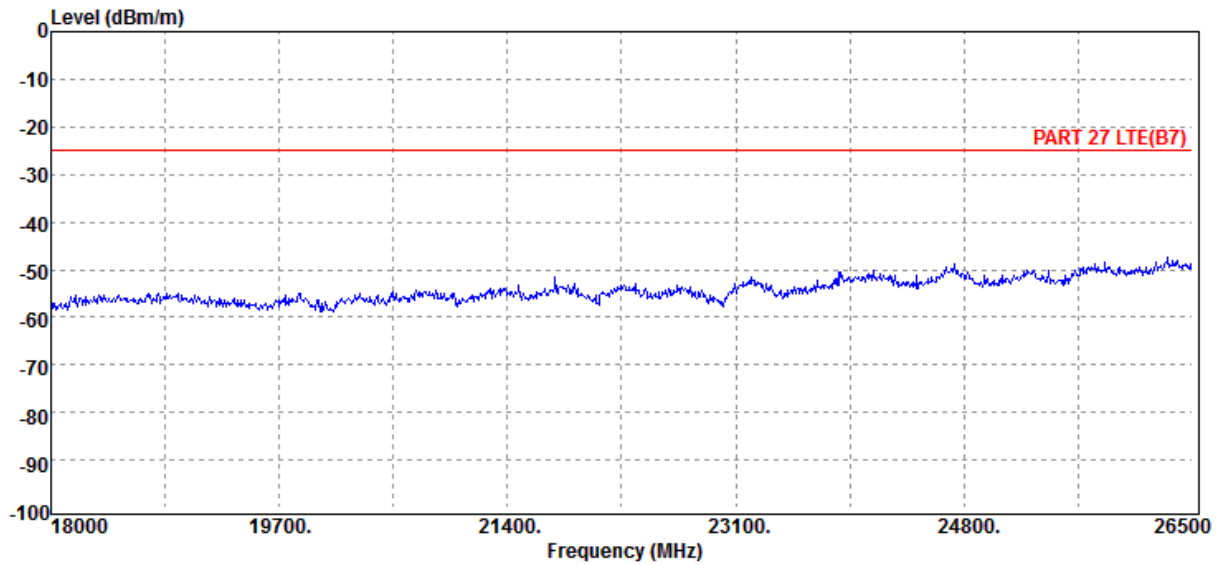
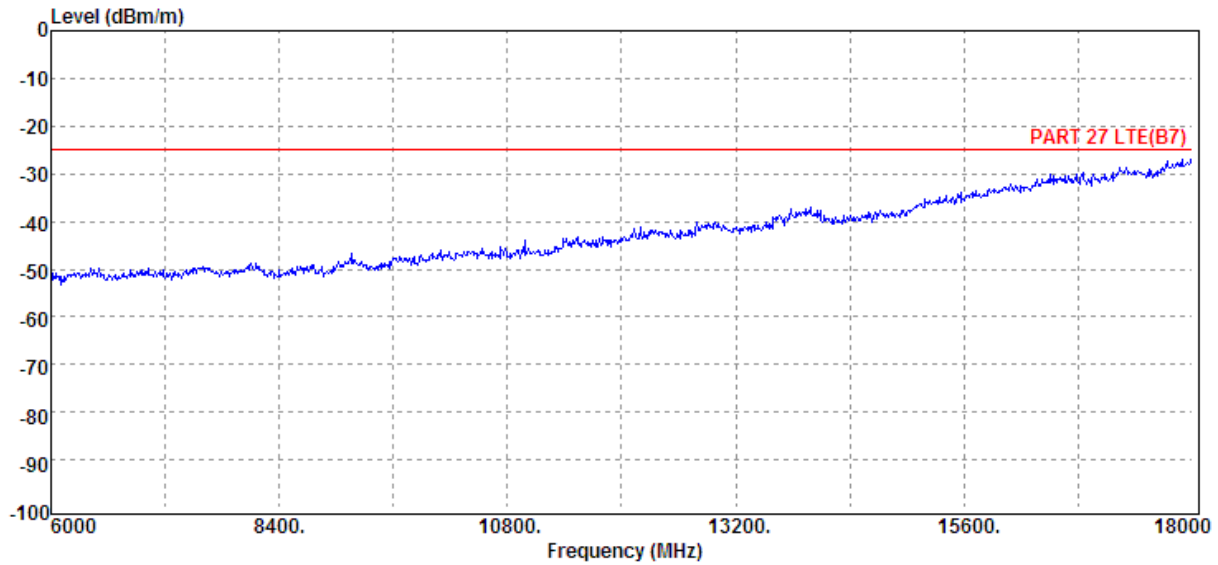
Operation Band	:LTE B7	Test Date	:2014-03-01
ARFCN	:CH 21425 16QAM BW 5 RB 1 0	Temp./Humi.	:18.6 deg_C / 67 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



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