FCC RADIO REPORT

Report No: STS1501039F01

Issued for

UNNECTO HOLDING LIMITED

ROOM 1501(445),15/F.,SPA CENTRE,53-55 LOCKHART ROAD,WANCHAI,HONGKONG

Product Name:	3G MOBILE PHONE
Brand Name:	unnecto ™
Model No.:	U905
Series Model:	N/A
FCC ID:	2ADR3U905
Test Standard:	FCC Part 22H and 24E

Shenzhen STS Test Services Co., Ltd.
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TEST RESULT CERTIFICATION

Applicant's name	UNNECTO HOLDING LIMITED
Address	ROOM 1501(445),15/F.,SPA CENTRE,53-55 LOCKHART ROAD, WAN-CHAI,HONGKONG
Manufacture's Name	SHENZHEN UNI-ONE ELECTRONIC CO.,LTD
Address	5/F,Bldg A2,Kexing Science Park,Keyuan Rd.,Hi-Tech Park Shenz-hen,P.R.China
Product name	3G MOBILE PHONE
Band name	unnecto ™
Model and/or type reference	U905
Standards	FCC Part 22H and 24E
Test procedure	TIA 603 C

This device described above has been tested by STS and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of performance of tests	15 Jan. 2015 ~21 Jan. 2014
Date of Issue	21 Jan. 2014
Test Result	**Pass**

Testing Engineer : (Tony Liu)

Technical Manager : (Vita Li)

Authorized Signatory : (Bovey Yang)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of ansi C63.10: 2009; TIA 603 C and fcc cfr 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057

Item Number	Item Description		FCC Rules
1	Output Power	Conducted output power	22.913(a) / 24.232 (b)
		Radiated output power	
2	Spurious Emission	Conducted spurious emission	2.1051 / 22.917 / 24.238
		Radiated spurious emission	
3	Frequency Stability		2.1055 /24.235
4	Occupied Bandwidth		2.1049 (h)(i)
5	Emission Bandwidth		22.917(b) / 24.238 (b)
6	Band Edge		22.917(b) / 24.238 (b)

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China.

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	3G MOBILE PHONE
Hardware version:	UH09_MB_V0.1 2014-11-11
Software version:	ALPS.KK1.MP1.V2.10
FCC ID:	2ADR3U905
Frequency Bands:	☒GSM 850 ☒PCS 1900 (U.S. Bands) ☐GSM 900 ☐DCS 1800 (Non-U.S. Bands) U.S. Bands: ☒UMTS FDD Band II ☒UMTS FDD Band V Non-U.S. Bands: ☐UMTS FDD Band I ☐UMTS FDD Band VIII
Max RF Output Power:	GSM850:30.70dBm,GSM1900:28.88dBm WCDMA Band V:22.84dBm,WCDMA Band II:21.51dBm
Type of Emission:	GSM(850):245KGXW: GSM(1900):245KGXW GPRS(850):249KGXW; GPRS(1900):248KGXW EDGE(850):248KG7W: EDGE(1900):252KG7W WCDMA850:4M18F9W WCDMA1900:4M19F9W
SIM CARD	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time
Antenna:	PIFA Antenna
Antenna gain:	-1.3 dBi
Power Supply:	DC 3.8V by battery or DC 5.0V supplied by adapter
Battery parameter:	DC 3.8V/2500mAh
Adapter Input:	AC100-240V, 50-60Hz, 0.18A
Adapter Output:	DC 5.0V, 1000mA
GPRS/EDGE Class	Multi-Class12
Extreme Vol. Limits:	DC3.4 V to 4.35 V (Nominal DC3.8V)
Extreme Temp. Tolerance	-30℃ to +50℃
** Note: The High Voltage 4.35V and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.	

2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for fcc id: 2ADR3U905 filing to comply with the fcc part 22H&24E.

2.3 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.4 EUT CONFIGURATION

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

2.5 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.6 CONFIGURATION OF EUT SYSTEM

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

EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	3G MOBILE PHONE	U905	FCC ID: 2ADR3U905	EUT

Note: All the accessories have been used during the test. the following "EUT" in setup diagram means EUT system.

2.7 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ansi C 63.10: 2009; TIA 603C and fcc cfr 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Equipment	Manufacturer	Model	Serial Number	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Communication Tester	Agilent	8960	MY48360751	2014.10.25	2015.10.24
Communication Tester	R&S	CMU200	112012	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	102086	2014.10.25	2015.10.24
Loop Antenna	Daze	ZN30900N	SEL0097	2014.10.27	2015.10.26
Bilog Antenna	Teseq	CBL6111D	34678	2014.10.27	2015.10.26
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26

3. SUMMARY OF TEST RESULTS

Item Number	Item Description		FCC Rules	Result
1	Output Power	Conducted Output Power	22.913(a) / 24.232 (b)	Pass
		Radiated Output Power		
2	Spurious Emission	Conducted Spurious Emission	2.1051 / 22.917 / 24.238	Pass
		Radiated Spurious Emission		
3	Mains Conducted Emission		15.107 / 15.207	Pass
4	Frequency Stability		2.1055 /24.235	Pass
5	Occupied Bandwidth		2.1049 (h)(i)	Pass
6	Emission Bandwidth		22.917(b) / 24.238 (b)	Pass
7	Band Edge		22.917(b) / 24.238 (b)	Pass

4. DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMU 200) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both GPRS850 and GPRS1900 frequency band.

Note: GSM/GPRS/EDGES850, GSM/GPRS/EDGE1900, HSDPA band V, HSUPA band V And HSDPA band II, HSUPA band II modes have been tested during the test.

the worst condition (GPRS/EDGE 850) be recorded in the test report if no other modes test data.

5. OUTPUT POWER

5.1 CONDUCTED OUTPUT POWER

5.1.1 MEASUREMENT METHOD

The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all modes(GSM/GPRS /EDGE850, GSM/GPRS/EDGE1900, HSDPA /HSUPA band V, HSDPA /HSUPA band II) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

5.1.2 MEASUREMENT RESULT

Conducted Output Power Limits for GSM 850 MHZ		
Mode	Nominal Peak Power	Tolerance(dB)
GSM850	30 dBm	+/- 1

Conducted Output Power Limits for PCS 1900 MHZ		
Mode	Nominal Peak Power	Tolerance(dB)
GSM1900	28 dBm	+/- 1

Conducted Output Power Limits for WCDMA band V/II		
Mode	Nominal Peak Power	Tolerance(dB)
WCDMA band V	22 dBm	+/- 1
WCDMA band II	21.1 dBm	+/- 0.5

GSM 850:

Mode	Frequency (MHz)	Peak Power	AVG Power
GSM850	824.2	30.68	30.40
	836.6	**30.70**	30.37
	848.8	30.61	30.23
GPRS850 (1 Slot)	824.2	30.66	**30.41**
	836.6	30.66	30.37
	848.8	30.57	30.31
GPRS850 (2 Slot)	824.2	29.51	29.13
	836.6	29.56	29.29
	848.8	29.43	29.20
GPRS850 (3 Slot)	824.2	27.33	26.96
	836.6	27.43	27.04
	848.8	27.26	26.89
GPRS850 (4 Slot)	824.2	26.18	25.97
	836.6	26.42	26.12
	848.8	26.25	26.03
EDGE850 (1 Slot)	824.2	30.62	30.24
	836.6	30.62	30.33
	848.8	30.53	30.23
EDGE850 (2 Slot)	824.2	29.52	29.17
	836.6	29.53	29.27
	848.8	29.45	29.23
EDGE850 (3 Slot)	824.2	27.39	27.04
	836.6	27.39	27.06
	848.8	27.32	26.96
EDGE850 (4 Slot)	824.2	26.31	25.93
	836.6	26.27	25.88
	848.8	26.29	26.00

PCS 1900:

Mode	Frequency (MHz)	Peak Power	AVG Power
GSM1900	1850.2	**28.88**	**28.54**
	1880	28.56	28.25
	1909.8	28.64	28.44
GPRS1900 (1 Slot)	1850.2	28.86	28.49
	1880	28.55	28.16
	1909.8	28.63	28.32
GPRS1900 (2 Slot)	1850.2	27.75	27.40
	1880	27.48	27.09
	1909.8	27.57	27.26
GPRS1900 (3 Slot)	1850.2	25.68	25.39
	1880	25.45	25.15
	1909.8	25.41	25.08
GPRS1900 (4 Slot)	1850.2	24.61	24.23
	1880	24.34	24.06
	1909.8	24.28	23.92
EDGE1900 (1 Slot)	1850.2	28.83	28.60
	1880	28.52	28.13
	1909.8	28.61	28.35
EDGE1900 (2 Slot)	1850.2	27.72	27.34
	1880	27.48	27.15
	1909.8	27.41	27.06
EDGE1900 (3 Slot)	1850.2	25.70	25.38
	1880	25.36	25.13
	1909.8	25.40	25.07
EDGE1900 (4 Slot)	1850.2	24.53	24.15
	1880	24.29	24.05
	1909.8	24.21	23.99

UMTS BAND V

Mode	Frequency(MHz)	Peak Power	AVG Power
WCDMA 850 RMC	826.4	22.64	22.29
	836.6	22.48	22.19
	846.6	**22.84**	**22.59**
HSDPA Subtest 1	826.4	22.60	22.39
	836.6	22.45	22.07
	846.6	22.79	22.58
HSDPA Subtest 2	826.4	21.48	21.15
	836.6	21.41	21.18
	846.6	21.64	21.39
HSDPA Subtest 3	826.4	20.96	20.68
	836.6	20.82	20.42
	846.6	21.11	20.71
HSDPA Subtest 4	826.4	20.26	20.01
	836.6	20.28	20.05
	846.6	20.44	20.19
HSUPA Subtest 1	826.4	22.53	22.28
	836.6	22.41	22.03
	846.6	22.76	22.36
HSUPA Subtest 2	826.4	21.47	21.13
	836.6	21.22	20.92
	846.6	21.76	21.50
HSUPA Subtest 3	826.4	20.47	20.39
	836.6	20.36	20.34
	846.6	20.25	20.11
HSUPA Subtest 4	826.4	20.29	19.95
	836.6	20.10	19.79
	846.6	20.45	20.16
HSUPA Subtest 5	826.4	19.69	19.38
	836.6	19.47	19.18
	846.6	19.84	19.44

UMTS BAND II

Mode	Frequency(MHz)	Peak Power	AVG Power
WCDMA 1900 RMC	1852.4	**21.51**	**21.25**
	1880	21.36	21.12
	1907.6	21.24	20.99
HSDPA Subtest 1	1852.4	21.42	21.06
	1880	21.33	21.08
	1907.6	21.18	20.86
HSDPA Subtest 2	1852.4	20.27	19.95
	1880	20.25	19.85
	1907.6	20.10	19.84
HSDPA Subtest 3	1852.4	19.77	19.49
	1880	19.74	19.34
	1907.6	19.55	19.33
HSDPA Subtest 4	1852.4	19.20	18.98
	1880	19.18	18.91
	1907.6	18.93	18.62
HSUPA Subtest 1	1852.4	21.36	21.03
	1880	21.29	21.04
	1907.6	21.14	20.88
HSUPA Subtest 2	1852.4	20.24	20.00
	1880	20.23	19.85
	1907.6	20.12	19.82
HSUPA Subtest 3	1852.4	19.65	19.37
	1880	19.59	19.24
	1907.6	19.45	19.18
HSUPA Subtest 4	1852.4	19.10	18.80
	1880	19.05	18.79
	1907.6	18.94	18.62
HSUPA Subtest 5	1852.4	18.41	18.03
	1880	18.37	18.13
	1907.6	18.34	17.96

According to 3GPP 25.101 sub-clause 6.2.2 , the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for β_c/β_d=12/15, β_{hs}/β_c=24/15.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the GSM/GPRS/EDGE,HSDPA/HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensate for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.
The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

5.2 PEAK-TO-AVERAGE RADIO (PAR) OF TRANSMITTER

5.2.1 STANDARD APPLICABLE

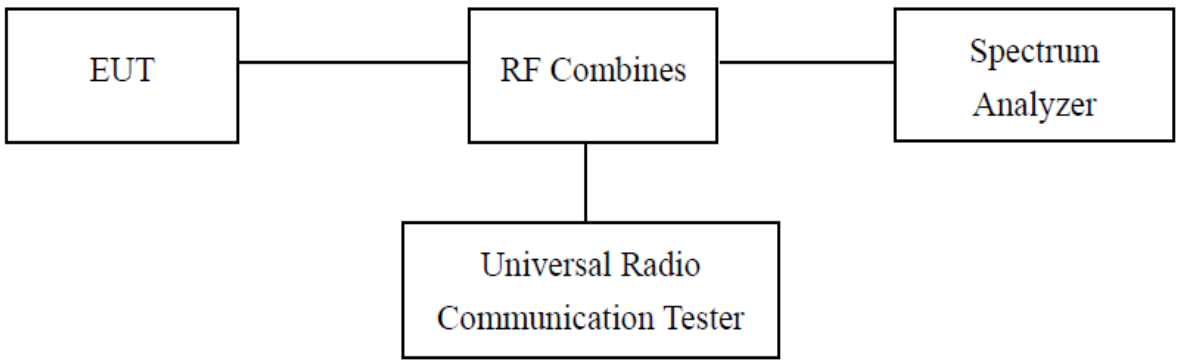
According to §24.232(d), Power measurements for transmissions by stations authorized under this section may be
made either in accordance with a Commission-approved average power technique or in compliance with
paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the
provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.2.2 TEST EQUIPMENT LIST AND DETAILS

Equipment	Manufacturer	Model	Serial Number	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Communication Tester	Agilent	8960	MY48360751	2014.10.25	2015.10.24
Communication Tester	R&S	CMU200	112012	2014.10.25	2015.10.24
TEST RECEIVER	R&S	ESCI	102086	2014.10.25	2015.10.24

5.2.3 TEST PROCEDURE

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 30kHz and the peak-to-average ratio (PAR) of the transmission was recorded.
Test Configuration for the emission bandwidth testing:



5.2.4 ENVIRONMENTAL CONDITIONS

Temperature:	25 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.2.5 SUMMARY OF TEST RESULTS

GSM 850:

Mode	Frequency (MHz)	Peak Power	AVG Power	PAR	Limit
GSM850	824.20	30.68	30.40	0.28	13.00
	836.60	**30.70**	30.37	0.33	13.00
	848.80	30.61	30.23	0.38	13.00
GPRS850 (1 Slot)	824.20	30.66	**30.41**	0.25	13.00
	836.60	30.66	30.37	0.29	13.00
	848.80	30.57	30.31	0.26	13.00
GPRS850 (2 Slot)	824.20	29.51	29.13	0.38	13.00
	836.60	29.56	29.29	0.27	13.00
	848.80	29.43	29.20	0.23	13.00
GPRS850 (3 Slot)	824.20	27.33	26.96	0.37	13.00
	836.60	27.43	27.04	**0.39**	13.00
	848.80	27.26	26.89	0.37	13.00
GPRS850 (4 Slot)	824.20	26.18	25.97	0.21	13.00
	836.60	26.42	26.12	0.30	13.00
	848.80	26.25	26.03	0.22	13.00
EDGE850 (1 Slot)	824.20	30.62	30.24	0.38	13.00
	836.60	30.62	30.33	0.29	13.00
	848.80	30.53	30.23	0.30	13.00
EDGE850 (2 Slot)	824.20	29.52	29.17	0.35	13.00
	836.60	29.53	29.27	0.26	13.00
	848.80	29.45	29.23	0.22	13.00
EDGE850 (3 Slot)	824.20	27.39	27.04	0.35	13.00
	836.60	27.39	27.06	0.33	13.00
	848.80	27.32	26.96	0.36	13.00
EDGE850 (4 Slot)	824.20	26.31	25.93	0.38	13.00
	836.60	26.27	25.88	0.39	13.00
	848.80	26.29	26.00	0.29	13.00

PCS 1900:

Mode	Frequency (MHz)	Peak Power	AVG Power	PAR	Limit
GSM1900	1850.20	**28.88**	**28.54**	0.34	13.00
	1880.00	28.56	28.25	0.31	13.00
	1909.80	28.64	28.44	0.20	13.00
GPRS1900 (1 Slot)	1850.20	28.86	28.49	0.37	13.00
	1880.00	28.55	28.16	**0.39**	13.00
	1909.80	28.63	28.32	0.31	13.00
GPRS1900 (2 Slot)	1850.20	27.75	27.40	0.35	13.00
	1880.00	27.48	27.09	0.39	13.00
	1909.80	27.57	27.26	0.31	13.00
GPRS1900 (3 Slot)	1850.20	25.68	25.39	0.29	13.00
	1880.00	25.45	25.15	0.30	13.00
	1909.80	25.41	25.08	0.33	13.00
GPRS1900 (4 Slot)	1850.20	24.61	24.23	0.38	13.00
	1880.00	24.34	24.06	0.28	13.00
	1909.80	24.28	23.92	0.36	13.00
EDGE1900 (1 Slot)	1850.20	28.83	28.60	0.23	13.00
	1880.00	28.52	28.13	0.39	13.00
	1909.80	28.61	28.35	0.26	13.00
EDGE1900 (2 Slot)	1850.20	27.72	27.34	0.38	13.00
	1880.00	27.48	27.15	0.33	13.00
	1909.80	27.41	27.06	0.35	13.00
EDGE1900 (3 Slot)	1850.20	25.70	25.38	0.32	13.00
	1880.00	25.36	25.13	0.23	13.00
	1909.80	25.40	25.07	0.33	13.00
EDGE1900 (4 Slot)	1850.20	24.53	24.15	0.38	13.00
	1880.00	24.29	24.05	0.24	13.00
	1909.80	24.21	23.99	0.22	13.00

UMTS BAND V

Mode	Frequency (MHz)	Peak Power	AVG Power	PAR	Limit
WCDMA 850 RMC	826.40	22.64	22.29	0.35	13.00
	836.60	22.48	22.19	0.29	13.00
	846.60	**22.84**	**22.59**	0.25	13.00
HSDPA Subtest 1	826.40	22.60	22.39	0.21	13.00
	836.60	22.45	22.07	0.38	13.00
	846.60	22.79	22.58	0.21	13.00
HSDPA Subtest 2	826.40	21.48	21.15	0.33	13.00
	836.60	21.41	21.18	0.23	13.00
	846.60	21.64	21.39	0.25	13.00
HSDPA Subtest 3	826.40	20.96	20.68	0.28	13.00
	836.60	20.82	20.42	**0.40**	13.00
	846.60	21.11	20.71	0.40	13.00
HSDPA Subtest 4	826.40	20.26	20.01	0.25	13.00
	836.60	20.28	20.05	0.23	13.00
	846.60	20.44	20.19	0.25	13.00
HSUPA Subtest 1	826.40	22.53	22.28	0.25	13.00
	836.60	22.41	22.03	0.38	13.00
	846.60	22.76	22.36	0.40	13.00
HSUPA Subtest 2	826.40	21.47	21.13	0.34	13.00
	836.60	21.22	20.92	0.30	13.00
	846.60	21.76	21.50	0.26	13.00
HSUPA Subtest 3	826.40	20.47	20.39	0.08	13.00
	836.60	20.36	20.34	0.02	13.00
	846.60	20.25	20.11	0.14	13.00
HSUPA Subtest 4	826.40	20.29	19.95	0.34	13.00
	836.60	20.10	19.79	0.31	13.00
	846.60	20.45	20.16	0.29	13.00
HSUPA Subtest 5	826.40	19.69	19.38	0.31	13.00
	836.60	19.47	19.18	0.29	13.00
	846.60	19.84	19.44	0.40	13.00

UMTS BAND II

Mode	Frequency (MHz)	Peak Power	AVG Power	PAR	Limit
WCDMA 1900 RMC	1852.40	**21.51**	**21.25**	0.26	13.00
	1880.00	21.36	21.12	0.24	13.00
	1907.60	21.24	20.99	0.25	13.00
HSDPA Subtest 1	1852.40	21.42	21.06	0.36	13.00
	1880.00	21.33	21.08	0.25	13.00
	1907.60	21.18	20.86	0.32	13.00
HSDPA Subtest 2	1852.40	20.27	19.95	0.32	13.00
	1880.00	20.25	19.85	**0.40**	13.00
	1907.60	20.10	19.84	0.26	13.00
HSDPA Subtest 3	1852.40	19.77	19.49	0.28	13.00
	1880.00	19.74	19.34	0.40	13.00
	1907.60	19.55	19.33	0.22	13.00
HSDPA Subtest 4	1852.40	19.20	18.98	0.22	13.00
	1880.00	19.18	18.91	0.27	13.00
	1907.60	18.93	18.62	0.31	13.00
HSUPA Subtest 1	1852.40	21.36	21.03	0.33	13.00
	1880.00	21.29	21.04	0.25	13.00
	1907.60	21.14	20.88	0.26	13.00
HSUPA Subtest 2	1852.40	20.24	20.00	0.24	13.00
	1880.00	20.23	19.85	0.38	13.00
	1907.60	20.12	19.82	0.30	13.00
HSUPA Subtest 3	1852.40	19.65	19.37	0.28	13.00
	1880.00	19.59	19.24	0.35	13.00
	1907.60	19.45	19.18	0.27	13.00
HSUPA Subtest 4	1852.40	19.10	18.80	0.30	13.00
	1880.00	19.05	18.79	0.26	13.00
	1907.60	18.94	18.62	0.32	13.00
HSUPA Subtest 5	1852.40	18.41	18.03	0.38	13.00
	1880.00	18.37	18.13	0.24	13.00
	1907.60	18.34	17.96	0.38	13.00

5.3 RADIATED OUTPUT POWER

5.3.1 MEASUREMENT METHOD

The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all modes(GSM/GPRS/EDGE850, GSM/GPRS/EDGE1900, HSDPA/HSUPA band V, HSDPA/HSUPA band II) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

The measurements procedures specified in TIA-603C-2009 were applied.

1.In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

2.The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established as ARpl=Pin + 2.15 - Pr. The ARpl is the attenuation of “reference path loss”, and including the gain of receive antenna, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl

3.The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

4.From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

5.The EUT is then put into continuously transmitting mode at its maximum power level.

6.Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

7.This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

8.ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi..

9.Both Horizontal And Vertical Antenna Polarities Were Tested And Performed Pretest To Three Orthogonal Axis. The Worst Case Emissions Were Reported

5.3.2 PROVISIONS APPLICABLE

This is the test for the maximum radiated power from the EUT. Rule Part 24.232(b) specifies, “Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power” and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.” Rule Part 22.913(a) specifies “Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.”

Mode	Nominal Peak Power
GSM 850	<=38.45 dBm (7W)
PCS 1900	<=33 dBm (2W)
UMTS BAND V	<=38.45 dBm (7W)
UMTS BAND II	<=33 dBm (2W)

5.3.3 MEASUREMENT RESULT

Radiated Power (ERP) for GSM 850 MHZ				
Mode	Frequency	Result		Conclusion
		Max. Peak ERP (dBm)	Polarization Of Max. ERP	
GSM850	824.2	25.66	Horizontal	Pass
	824.2	**27.63**	Vertical	Pass
	836.6	25.71	Horizontal	Pass
	836.6	27.57	Vertical	Pass
	848.8	25.55	Horizontal	Pass
	848.8	27.59	Vertical	Pass

Radiated Power (ERP) for GPRS 850 MHZ				
Mode	Frequency	Result		Conclusion
		Max. Peak ERP (dBm)	Polarization Of Max. ERP	
GPRS850	824.2	25.58	Horizontal	Pass
	824.2	27.60	Vertical	Pass
	836.6	25.66	Horizontal	Pass
	836.6	27.51	Vertical	Pass
	848.8	25.60	Horizontal	Pass
	848.8	**27.63**	Vertical	Pass

Radiated Power (ERP) for EDGE 850 MHZ				
Mode	Frequency	Result		Conclusion
		Max. Peak ERP (dBm)	Polarization Of Max. ERP	
EDGE850	824.2	25.58	Horizontal	Pass
	824.2	27.47	Vertical	Pass
	836.6	25.64	Horizontal	Pass
	836.6	**27.58**	Vertical	Pass
	848.8	25.46	Horizontal	Pass
	848.8	27.46	Vertical	Pass

Radiated Power (EIRP) for PCS 1900 MHZ				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P.(dBm)	Polarization Of Max. E.I.R.P.	
PCS1900	1850.2	23.83	Horizontal	Pass
	1850.2	25.78	Vertical	Pass
	1880.0	23.88	Horizontal	Pass
	1880.0	25.76	Vertical	Pass
	1909.8	23.84	Horizontal	Pass
	1909.8	**25.85**	Vertical	Pass

Radiated Power (EIRP) for GPRS 1900 MHZ				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P.(dBm)	Polarization Of Max. E.I.R.P.	
GPRS 1900	1850.2	23.72	Horizontal	Pass
	1850.2	**25.85**	Vertical	Pass
	1880.0	23.75	Horizontal	Pass
	1880.0	25.76	Vertical	Pass
	1909.8	23.71	Horizontal	Pass
	1909.8	25.77	Vertical	Pass

Radiated Power (EIRP) for EDGE 1900 MHZ				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P.(dBm)	Polarization Of Max. E.I.R.P.	
EDGE 1900	1850.2	23.74	Horizontal	Pass
	1850.2	**25.81**	Vertical	Pass
	1880.0	23.83	Horizontal	Pass
	1880.0	25.65	Vertical	Pass
	1909.8	23.68	Horizontal	Pass
	1909.8	25.75	Vertical	Pass

Radiated Power (ERP) for UMTS band Ⅴ				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P.(dBm)	Polarization Of Max. E.I.R.P.	
RMC 12.2kbps	826.4	18.84	Horizontal	Pass
	826.4	**19.81**	Vertical	Pass
	836.6	18.68	Horizontal	Pass
	836.6	19.80	Vertical	Pass
	846.6	18.62	Horizontal	Pass
	846.6	19.62	Vertical	Pass

Radiated Power (EIRP) for UMTS band Ⅱ				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P.(dBm)	Polarization Of Max. E.I.R.P.	
RMC 12.2kbps	1852.4	17.42	Horizontal	Pass
	1852.4	18.49	Vertical	Pass
	1880	17.37	Horizontal	Pass
	1880	18.44	Vertical	Pass
	1907.6	17.45	Horizontal	Pass
	1907.6	**18.49**	Vertical	Pass

6. SPURIOUS EMISSION

6.1 SPURIOUS EMISSION

6.1.1 MEASUREMENT METHOD

The following steps outline the procedure used to measure the conducted emissions from the EUT.
1.Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 20 GHz, For the equipment of band II, data taken from 30 MHz to 20 GHz. For GSM850, data taken from 30 MHz to 9 GHz. For band V, data taken from 30 MHz to 9 GHz.
2. Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.

Typical Channels for testing of GSM/GPRS 850 MHz	
Channel	Frequency (MHz)
128	824.2
190	836.6
251	848.8

Typical Channels for testing of PCS/ GPRS 1900 MHz	
Channel	Frequency (MHz)
512	1850.2
661	1880.0
810	1909.8

Typical Channels for testing of UMTS band V	
Channel	Frequency (MHz)
4132	826.4
4183	836.6
4233	846.6

Typical Channels for testing of UMTS band II	
Channel	Frequency (MHz)
9262	1852.4
9400	1880
9538	1907.6

6.1.2 PROVISIONS APPLICABLE

On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

6.1.3 MEASUREMENT RESULT

PLEASE REFER TO : APPENDIX I TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

Note: 1. Below 30MHZ no Spurious found and The GSM modes is the worst condition.

2. As no emission found in standby or receive mode, no recording in this report.

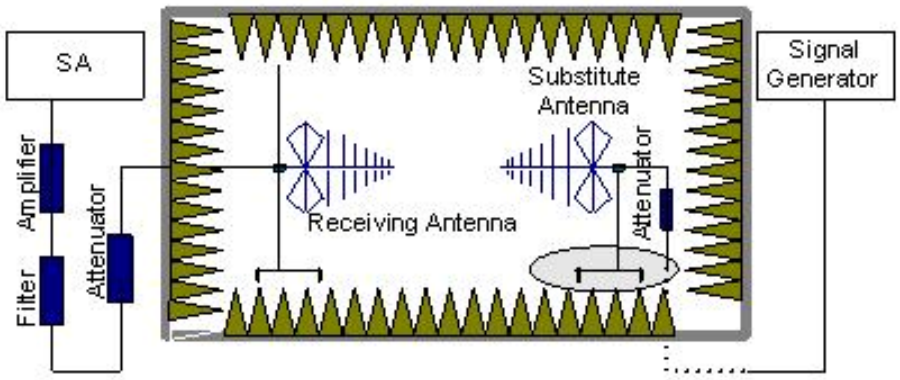
6.2 RADIATED SPURIOUS EMISSION

6.2.1 MEASUREMENT METHOD

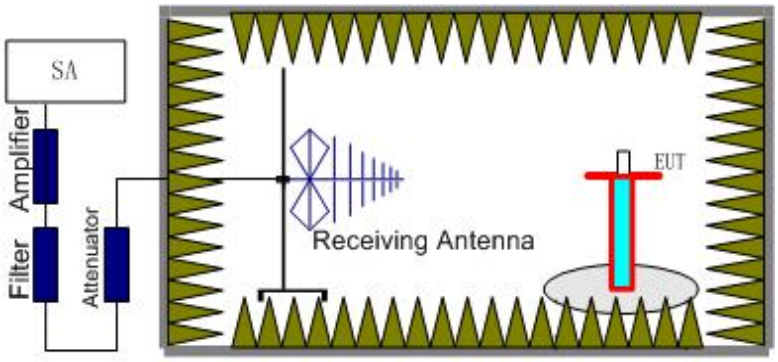
The measurements procedures specified in TIA-603C-2004 were used for testing. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The measurements were performed on all modes(GSM/GPRS/EDGE850, GSM/GPRS/EDGE1900, HSDPA/HSUPA band V, HSDPA/HSUPA band II) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx（dBuV）+CL（dB）+SA（dB）+Gain（dBi）-107（dBuV to dBm）The SA is calibrated using following setup.



b) EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth.



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS 1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz) ,GSM850 band (824.2MHz, 836.6MHz, 848.8MHz), UMTS band V (4132 (826.4MHz), 4183(836.6MHz) and 4233 (846.6MHz) and UMTS band II (9262 (1852.4.6MHz), 9400(1880MHz) and 9538 (1907.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: $Power=P_{Mea}+A_{Rpl}$

6.2.2 PROVISIONS APPLICABLE

(a) On any frequency outside a licensee’s frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Note: only result the worst condition of each test mode.

6.2.3 MEASUREMENT RESULT

GSM 850:

The Worst Test Results Channel 128/824.2 MHz						
Frequency(MHz	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit	Margin	Polarity
1648.422	-35.25	-4.65	-39.9	-13	-26.9	Horizontal
2472.612	-36.45	-2.21	-38.66	-13	-25.66	Horizontal
3296.821	-31.24	0.21	-31.03	-13	-18.03	Horizontal
1648.422	-38.63	-4.65	-43.28	-13	-30.28	Vertical
2472.612	-41.35	-2.21	-43.56	-13	-30.56	Vertical
3296.821	-42.86	0.21	-43.07	-13	-30.07	Vertical
The Worst Test Results Channel 190/836.6 MHz						
Frequency(MHz	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit	Margin	Polarity
1673.213	-36.82	-4.65	-41.47	-13	-28.47	Horizontal
2509.821	-42.05	-2.21	-44.26	-13	-31.26	Horizontal
3346.405	-38.34	0.21	-38.13	-13	-25.13	Horizontal
1673.213	-37.73	-4.65	-42.38	-13	-29.38	Vertical
2509.821	-31.47	-2.21	-33.68	-13	-20.68	Vertical
3346.405	-36.28	0.21	-36.07	-13	-23.07	Vertical
The Worst Test Results Channel 251/848.8 MHz						
Frequency(MHz	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit	Margin	Polarity
1697.612	-35.57	-4.65	-40.22	-13	-27.22	Horizontal
2546.413	-43.49	-2.21	-45.7	-13	-32.7	Horizontal
3395.214	-42.82	0.21	-42.61	-13	-29.61	Horizontal
1697.612	-35.38	-4.65	-40.03	-13	-27.03	Vertical
2546.413	-41.51	-2.21	-43.72	-13	-30.72	Vertical
3395.214	-37.25	0.21	-37.04	-13	-24.04	Vertical

Note: Below 30MHZ no Spurious found and The GSM modes is the worst condition.

PCS 1900:

The Worst Test Results for Channel 512/1850.2MHz						
Frequency(MH	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Margin	Polarity
3700.411	-33.17	0.33	-32.84	-13	-19.84	Horizontal
5550.612	-35.18	4.01	-31.17	-13	-18.17	Horizontal
7400.823	-42.56	10.7	-31.86	-13	-18.86	Horizontal
3700.411	-34.62	0.33	-34.29	-13	-21.29	Vertical
5550.612	-35.31	4.01	-31.3	-13	-18.3	Vertical
7400.823	-41.37	10.7	-30.67	-13	-17.67	Vertical
The Worst Test Results for Channel 661/1880.0MHz						
Frequency(MH	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Margin	Polarity
3760.121	-36.93	0.33	-36.6	-13	-23.6	Horizontal
5640.231	-32.76	4.01	-28.75	-13	-15.75	Horizontal
7520.214	-42.54	10.7	-31.84	-13	-18.84	Horizontal
3760.121	-31.32	0.33	-30.99	-13	-17.99	Vertical
5640.231	-36.28	4.01	-32.27	-13	-19.27	Vertical
7520.214	-37.31	10.7	-26.61	-13	-13.61	Vertical
The Worst Test Results for Channel 810/1909.8MHz						
Frequency(MH	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Margin	Polarity
3819.623	-32.69	0.33	-32.36	-13	-19.36	Horizontal
5729.416	-35.82	4.01	-31.81	-13	-18.81	Horizontal
7639.218	-37.22	10.7	-26.52	-13	-13.52	Horizontal
3819.623	-32.84	0.33	-32.51	-13	-19.51	Vertical
5729.416	-41.37	4.01	-37.36	-13	-24.36	Vertical
7639.218	-38.15	10.7	-27.45	-13	-14.45	Vertical

Note: Below 30MHZ no Spurious found and The GSM modes is the worst condition.

UMTS band V

Channel 4358/871.6MHz						
Frequency(MH	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Margin	Polarity
1743.797	-34.88	-4.65	-39.53	-13	-26.53	Horizontal
2614.160	-35.55	-2.21	-37.76	-13	-24.76	Horizontal
1743.729	-32.72	-4.65	-37.37	-13	-24.37	Vertical
2614.171	-31.18	-2.21	-33.39	-13	-20.39	Vertical
Channel 4400/880MHz						
Frequency(MH	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Margin	Polarity
1760.193	-31.43	-4.65	-36.08	-13	-23.08	Horizontal
2640.808	-35.18	-2.21	-37.39	-13	-24.39	Horizontal
1760.173	-27.57	-4.65	-32.22	-13	-19.22	Vertical
2640.794	-35.27	-2.21	-37.48	-13	-24.48	Vertical
Channel 4457/891.4MHz						
Frequency(MH	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Margin	Polarity
1782.770	-36.67	-4.65	-41.32	-13	-28.32	Horizontal
2673.791	-38.52	-2.21	-40.73	-13	-27.73	Horizontal
1782.153	-26.19	-4.65	-30.84	-13	-17.84	Vertical
2673.716	-35.33	-2.21	-37.54	-13	-24.54	Vertical

Note: Below 30MHZ no Spurious found and The RMC modes is the worst condition.

UMTS band II

Channel 9663/1932.6MHz						
Frequency(MHz	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit	Margin	Polarity
3865.775	-34.27	0.33	-33.94	-13	-20.94	Horizontal
5997.177	-35.59	4.01	-31.58	-13	-18.58	Horizontal
3865.735	-34.28	0.33	-33.95	-13	-20.95	Vertical
5997.143	-31.82	4.01	-27.81	-13	-14.81	Vertical
Channel 9800/1960MHz						
Frequency(MHz	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit	Margin	Polarity
3920.093	-31.62	0.33	-31.29	-13	-18.29	Horizontal
5880.194	-35.58	4.01	-31.57	-13	-18.57	Horizontal
3920.119	-27.19	0.33	-26.86	-13	-13.86	Vertical
5880.217	-35.73	4.01	-31.72	-13	-18.72	Vertical
Channel 9937/1987.4MHz						
Frequency(MHz	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit	Margin	Polarity
3,974.131	-36.36	0.33	-36.03	-13	-23.03	Horizontal
5,962.783	-38.52	4.01	-34.51	-13	-21.51	Horizontal
3,974.184	-27.48	0.33	-27.15	-13	-14.15	Vertical
5,962.753	-35.45	4.01	-31.44	-13	-18.44	Vertical

Note: Below 30MHZ no Spurious found and The RMC modes is the worst condition.

7. FREQUENCY STABILITY

7.1 MEASUREMENT METHOD

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Note: only result the worst condition of each test mode.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30℃.
3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900 band , channel 190 for GSM 850 band and channel 4183 for UMTS band V measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10℃ increments from -30℃ to +50℃. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50℃.
7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10℃ increments from +50℃ to -30℃. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.

.At all temperature levels hold the temperature to +/- 0.5℃ during the measurement procedure.

7.2 PROVISIONS APPLICABLE

7.2.1 FOR HAND CARRIED BATTERY POWERED EQUIPMENT

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.3VDC and 4.2VDC, with a nominal voltage of 3.7VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

7.2.2 FOR EQUIPMENT POWERED BY PRIMARY SUPPLY VOLTAGE

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment, the normal environment temperature is 20oC.

7.3 MEASUREMENT RESULT

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment, the normal environment temperature is 20oC.

Frequency Error Against Voltage for GSM 850 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	14	0.017
3.7	15	0.018
4.2	21	0.025

Frequency Error Against Temperature for GSMS850 band		
temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	19	0.023
-20	-16	-0.019
-10	-22	-0.026
0	36	0.043
10	-19	-0.023
20	27	0.032
30	-21	-0.025
40	31	0.037
50	32	0.038

Frequency Error Against Voltage for GPRS850 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	-18	-0.022
3.7	23	0.028
4.2	17	0.020

Frequency Error Against Temperature for GPRS850 band		
temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	11	0.013
-20	34	0.041
-10	-16	-0.019
0	12	0.014
10	-23	-0.028
20	-16	-0.019
30	-21	-0.025
40	27	0.032
50	32	0.038

Frequency Error Against Voltage for EDGE 850 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	-18	-0.022
3.7	22	0.026
4.2	39	0.047

Frequency Error Against Temperature for EDGE 850 band		
temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	-19	-0.023
-20	23	0.028
-10	7	0.008
0	28	0.033
10	-27	-0.032
20	-14	-0.017
30	-21	-0.025
40	32	0.038
50	33	0.039

Note: The EUT doesn't work below -30℃

Frequency Error Against Voltage for GSM1900 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	13	0.007
3.7	-27	-0.014
4.2	19	0.010

Frequency Error Against Temperature for GSM1900 band		
temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	18	0.010
-20	-23	-0.012
-10	15	0.008
0	24	0.013
10	-24	-0.013
20	26	0.014
30	33	0.018
40	-19	-0.010
50	-21	-0.011

Frequency Error Against Voltage for GPRS1900 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	27	0.014
3.7	-19	-0.010
4.2	32	0.017

Frequency Error Against Temperature for GPRS1900 band		
temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	-19	-0.010
-20	24	0.013
-10	-17	-0.009
0	16	0.009
10	27	0.014
20	15	0.008
30	26	0.014
40	32	0.017
50	25	0.013

Frequency Error Against Voltage for EDGE 1900 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	-11	-0.006
3.7	25	0.013
4.2	-28	-0.015

Frequency Error Against Temperature for EDGE 1900 band		
temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	14	0.007
-20	22	0.012
-10	12	0.006
0	23	0.012
10	35	0.019
20	27	0.014
30	-14	-0.007
40	24	0.013
50	-19	-0.010

Note: The EUT doesn't work below -30℃

Frequency Error Against Voltage for UMTS band V		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	24	0.029
3.7	24	0.029
4.2	-13	-0.016

Frequency Error Against Temperature for UMTS band V		
temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	-17	-0.020
-20	-15	-0.018
-10	25	0.030
0	-16	-0.019
10	12	0.014
20	23	0.028
30	12	0.014
40	-29	-0.035
50	-16	-0.019

Note: The EUT doesn't work below -30℃

Frequency Error Against Voltage for UMTS band II		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	17	0.009
3.7	25	0.013
4.2	-15	-0.008

Frequency Error Against Temperature for UMTS band II		
temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	28	0.015
-20	-19	-0.010
-10	32	0.017
0	28	0.015
10	-13	-0.007
20	26	0.014
30	18	0.010
40	21	0.011
50	-16	-0.009

Note: The EUT doesn't work below -30℃

8. OCCUPIED BANDWIDTH

8.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

8.2 PROVISIONS APPLICABLE

Limits applicated report test result only.

8.3 MEASUREMENT RESULT

Occupied Bandwidth (99%) for GSM 850 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	824.2	245.1538
Middle Channel	836.6	239.4517
High Channel	848.8	244.1847

Occupied Bandwidth (99%) for GPRS 850 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	824.2	248.6263
Middle Channel	836.6	246.2804
High Channel	848.8	248.4291

Occupied Bandwidth (99%) for EDGE 850 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	824.2	244.0869
Middle Channel	836.6	244.3971
High Channel	848.8	247.5559

Occupied Bandwidth (99%) for GSM1900 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	1850.2	242.8587
Middle Channel	1880.0	241.9055
High Channel	1909.8	245.3238

Occupied Bandwidth (99%) for GPRS1900 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	1850.2	239.7082
Middle Channel	1880.0	242.3375
High Channel	1909.8	248.4231

Occupied Bandwidth (99%) for EDGE 1900 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	1850.2	247.9936
Middle Channel	1880.0	252.4165
High Channel	1909.8	243.5568

Occupied Bandwidth (99%) for UMTS band V		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)
Low Channel	826.4	4.1501
Middle Channel	836.6	4.1649
High Channel	846.6	4.1710
Occupied Bandwidth (99%) for UMTS HSDPA band V		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)
Low Channel	826.4	4.1680
Middle Channel	836.6	4.1617
High Channel	846.6	4.1791
Occupied Bandwidth (99%) for UMTS HSUPA band V		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)
Low Channel	826.4	4.1698
Middle Channel	836.6	4.1575
High Channel	846.6	4.1741

Occupied Bandwidth (99%) for UMTS band II		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)
Low Channel	1852.4	4.1754
Middle Channel	1880	4.1578
High Channel	1907.6	4.1841
Occupied Bandwidth (99%) for UMTS HSDPA band II		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)
Low Channel	1852.4	4.1628
Middle Channel	1880	4.1720
High Channel	1907.6	4.1944
Occupied Bandwidth (99%) for UMTS HSUPA band II		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)
Low Channel	1852.4	4.1687
Middle Channel	1880	4.1777
High Channel	1907.6	4.1803

9. Emission Bandwidth

9.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

9.2 PROVISIONS APPLICABLE

The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power

9.3 MEASUREMENT RESULT

Emission Bandwidth (-26dBc) for GSM850 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	320.677
Middle Channel	836.6	320.968
High Channel	848.8	315.490
Emission Bandwidth (-26dBc) for GPRS850 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	318.804
Middle Channel	836.6	320.258
High Channel	848.8	319.388
Emission Bandwidth (-26dBc) for EDGE 850 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	318.490
Middle Channel	836.6	317.596
High Channel	848.8	323.588

Emission Bandwidth (-26dBc) for GSM1900 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	319.163
Middle Channel	1880.0	316.421
High Channel	1909.8	318.368
Emission Bandwidth (-26dBc) for GPRS1900 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	319.771
Middle Channel	1880.0	320.100
High Channel	1909.8	318.995
Emission Bandwidth (-26dBc) for EDGE 1900 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	316.565
Middle Channel	1880.0	320.855
High Channel	1909.8	317.816

Emission Bandwidth (-26dBc) for UMTS band V		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	826.4	4.735
Middle Channel	836.6	4.710
High Channel	846.6	4.694
Emission Bandwidth (-26dBc) for UMTS HSDPA band V		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	826.4	4.708
Middle Channel	836.6	4.721
High Channel	846.6	4.724
Emission Bandwidth (-26dBc) for UMTS HSUPA band V		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	826.4	4.718
Middle Channel	836.6	4.711
High Channel	846.6	4.724

Emission Bandwidth (-26dBc) for UMTS band II		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	1852.4	4.719
Middle Channel	1880	4.722
High Channel	1907.6	4.733
Emission Bandwidth (-26dBc) for UMTS HSDPA band II		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	1852.4	4.723
Middle Channel	1880	4.716
High Channel	1907.6	4.779
Emission Bandwidth (-26dBc) for UMTS HSUPA band II		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	1852.4	4.698
Middle Channel	1880	4.724
High Channel	1907.6	4.760

10. BAND EDGE

10.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

10.2 PROVISIONS APPLICABLE

as Specified in FCC rules of 22.917(b) and 24.238(b)

10.3 MEASUREMENT RESULT

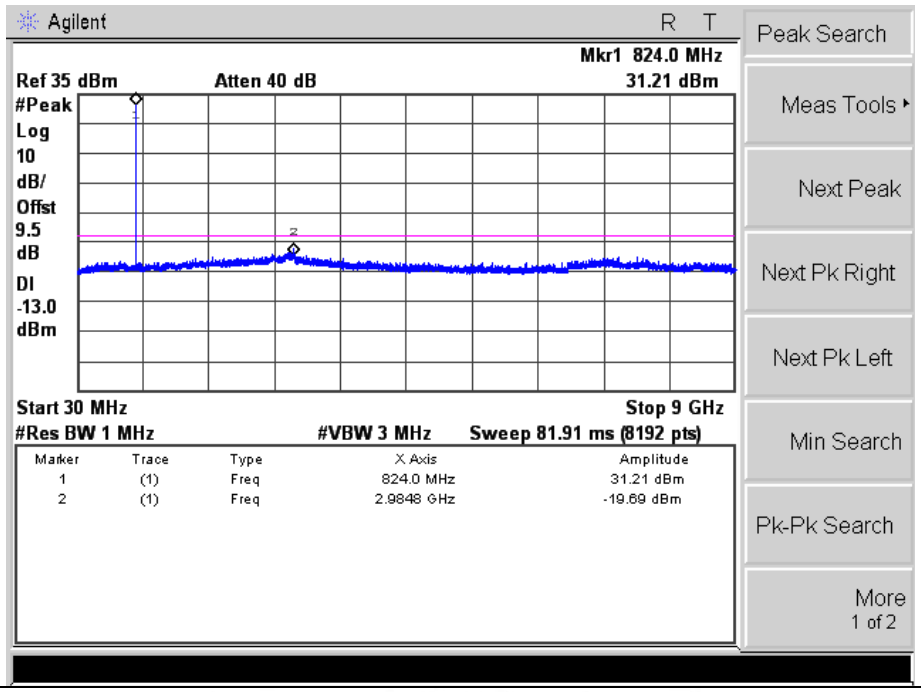
Please refers to Appendix III for compliance test plots for band edges

APPENDIX I

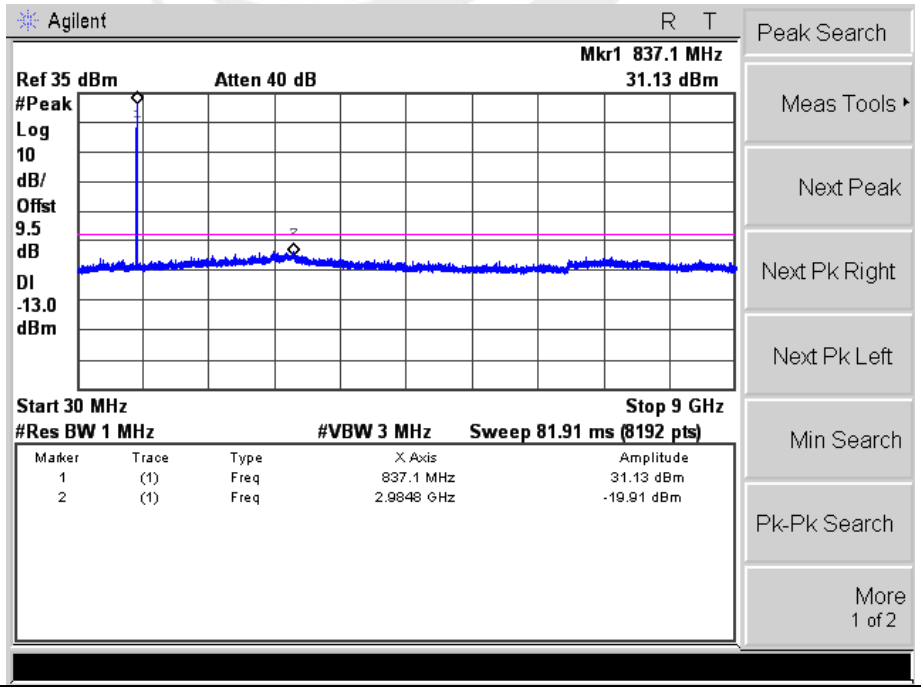
TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

CONDUCTED EMISSION IN GSM 850 BAND

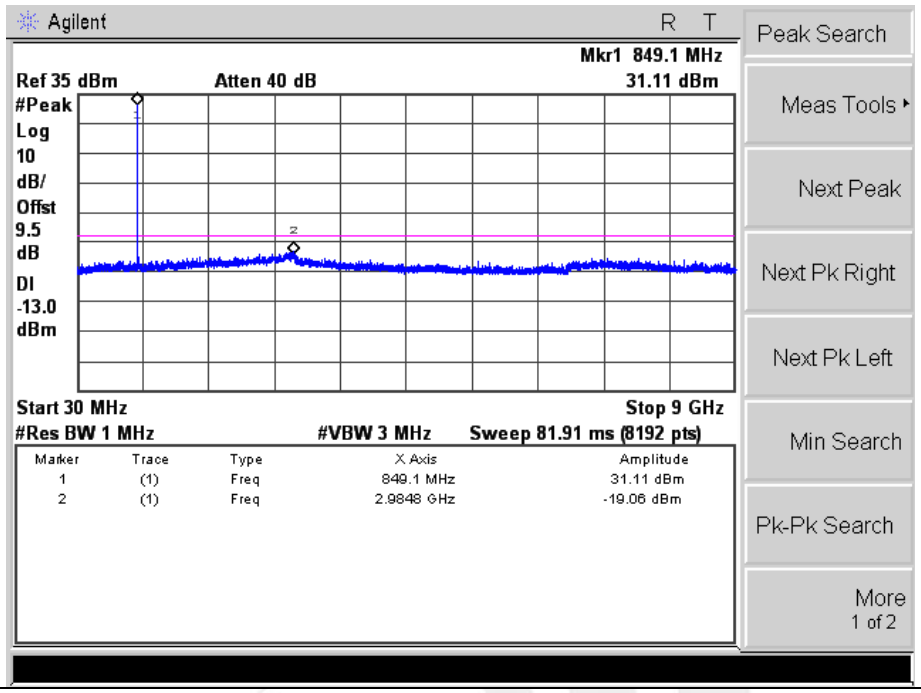
Conducted Emission Transmitting Mode CH 128 30MHz – 9GHz



Conducted Emission Transmitting Mode CH 190 30MHz – 9GHz

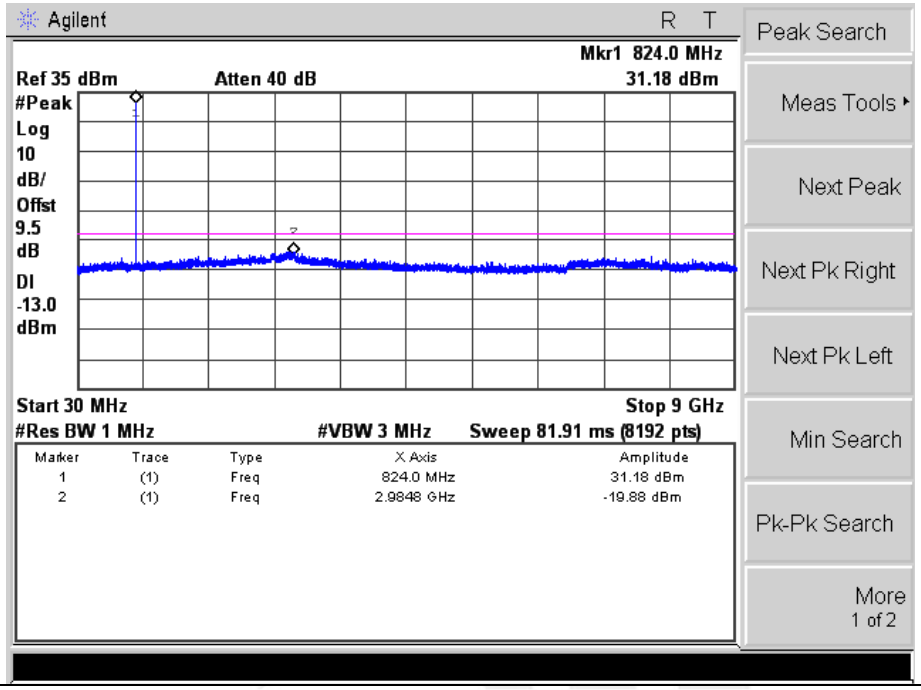


Conducted Emission Transmitting Mode CH 251 30MHz – 9GHz

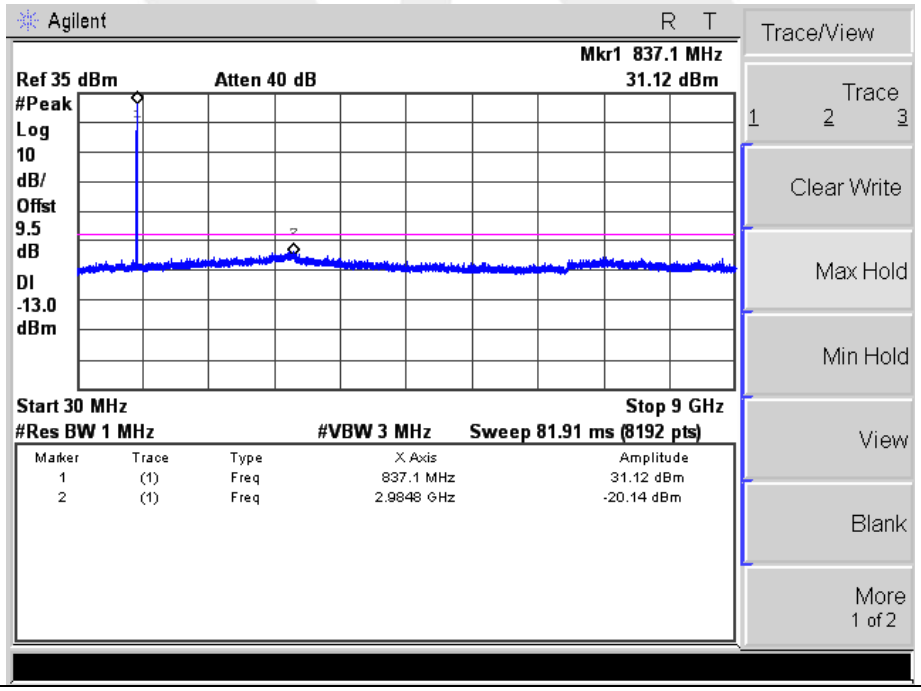


CONDUCTED EMISSION IN GPRS 850 BAND

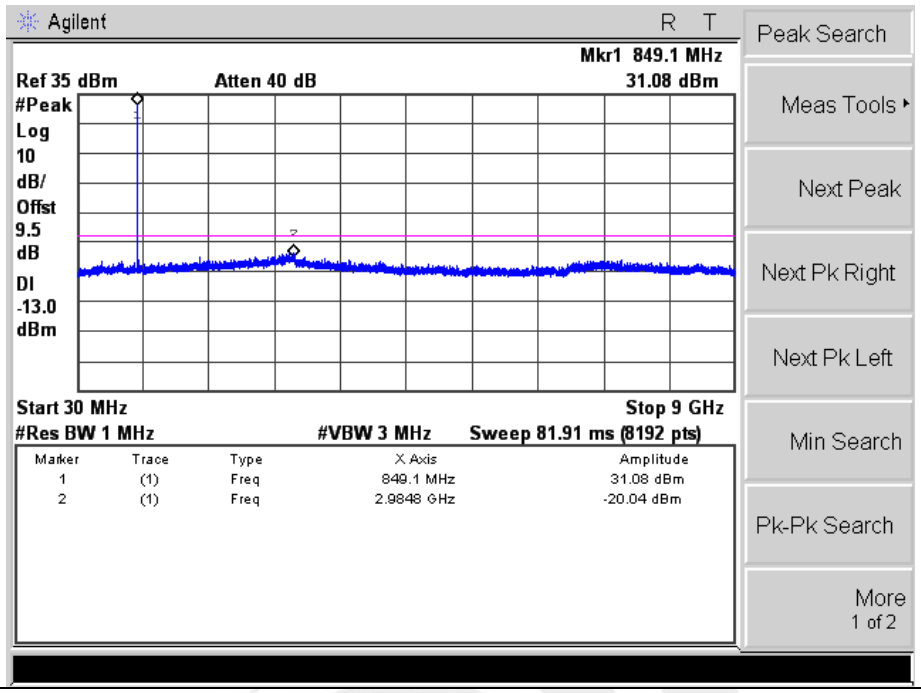
Conducted Emission Transmitting Mode CH 128 30MHz – 9GHz



Conducted Emission Transmitting Mode CH 190 30MHz – 9GHz

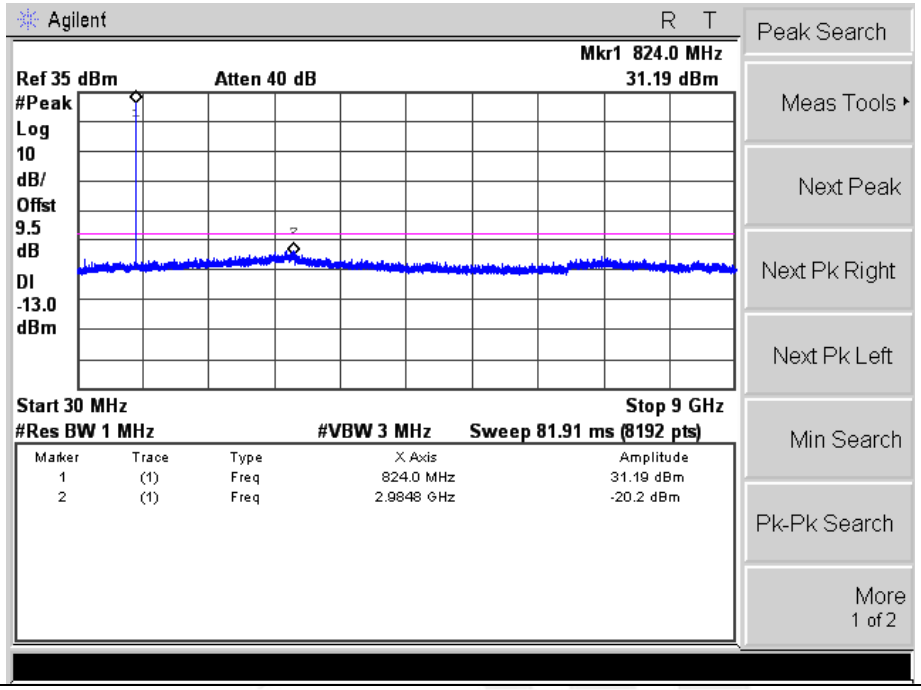


Conducted Emission Transmitting Mode CH 251 30MHz – 9GHz

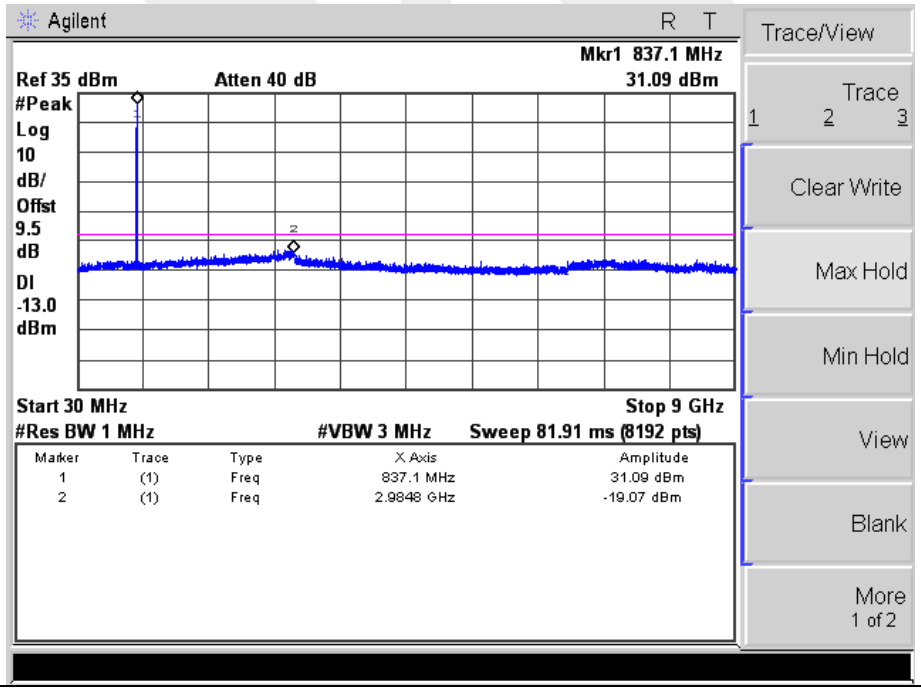


CONDUCTED EMISSION IN EDGE 850 BAND

Conducted Emission Transmitting Mode CH 128 30MHz – 9GHz



Conducted Emission Transmitting Mode CH 190 30MHz – 9GHz



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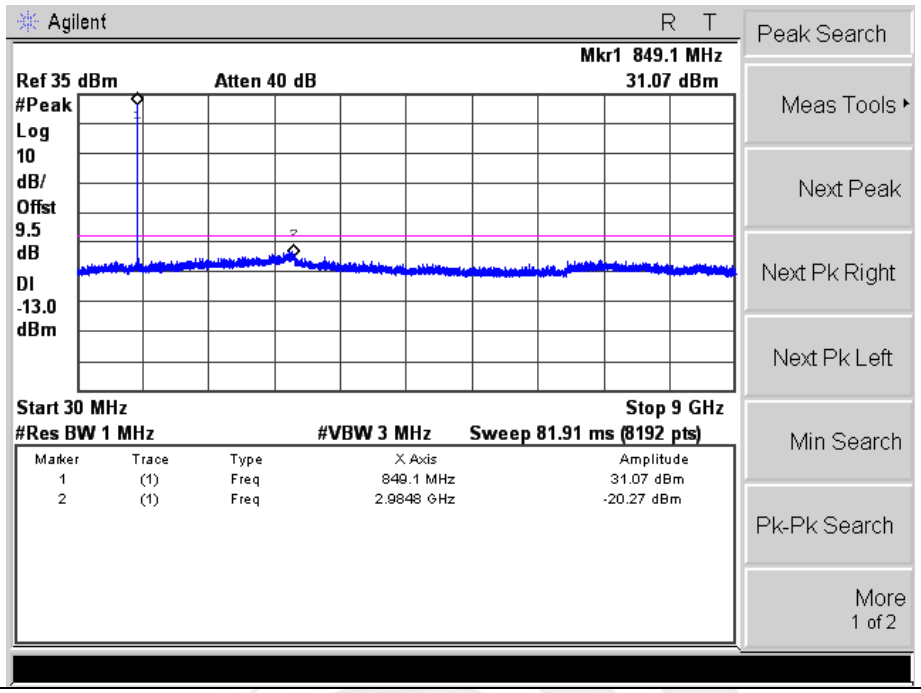
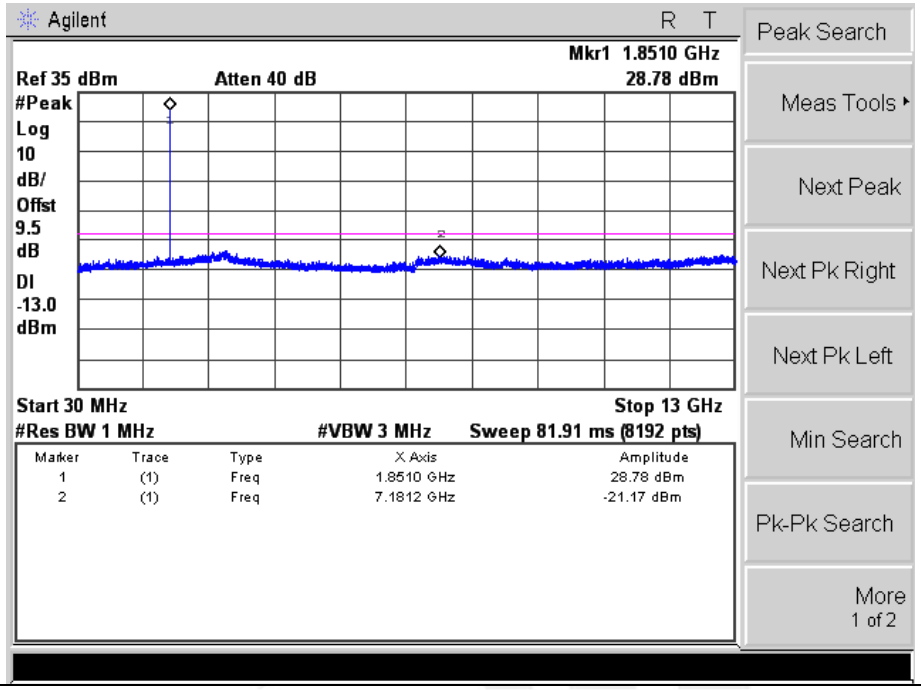
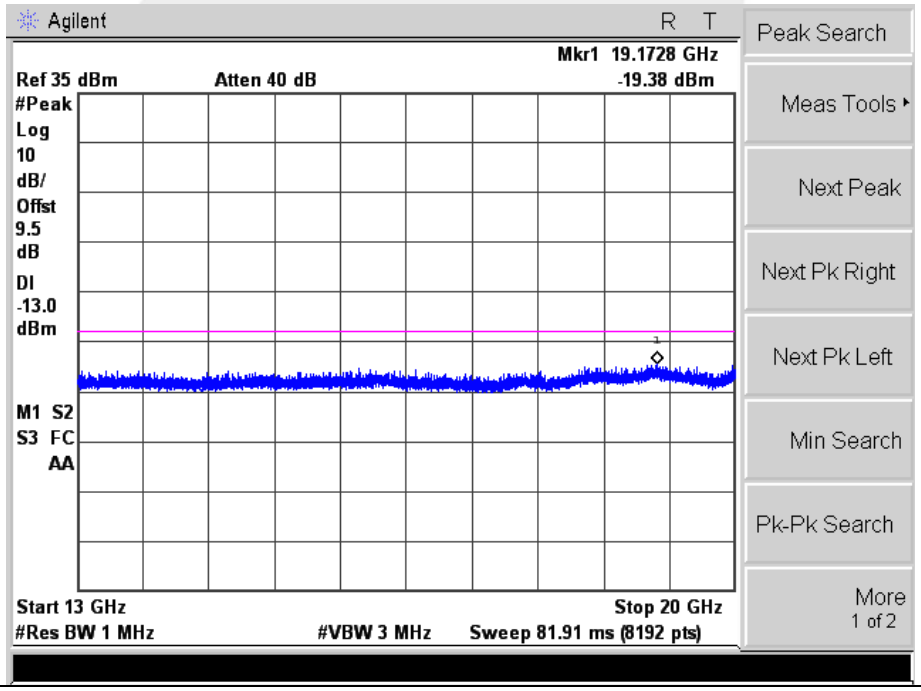


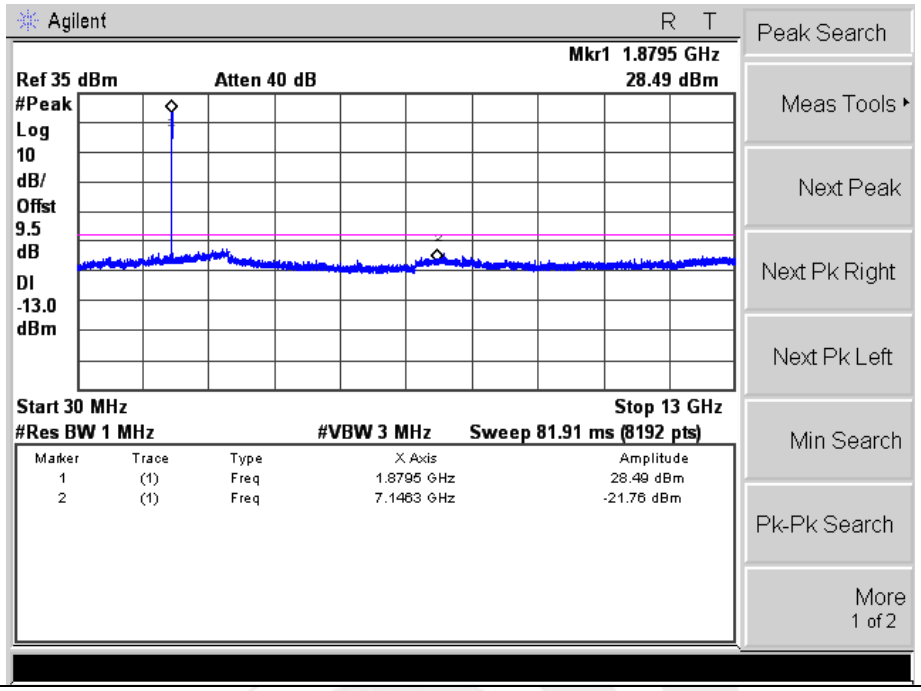
CONDUCTED EMISSION IN GSM1900 BAND

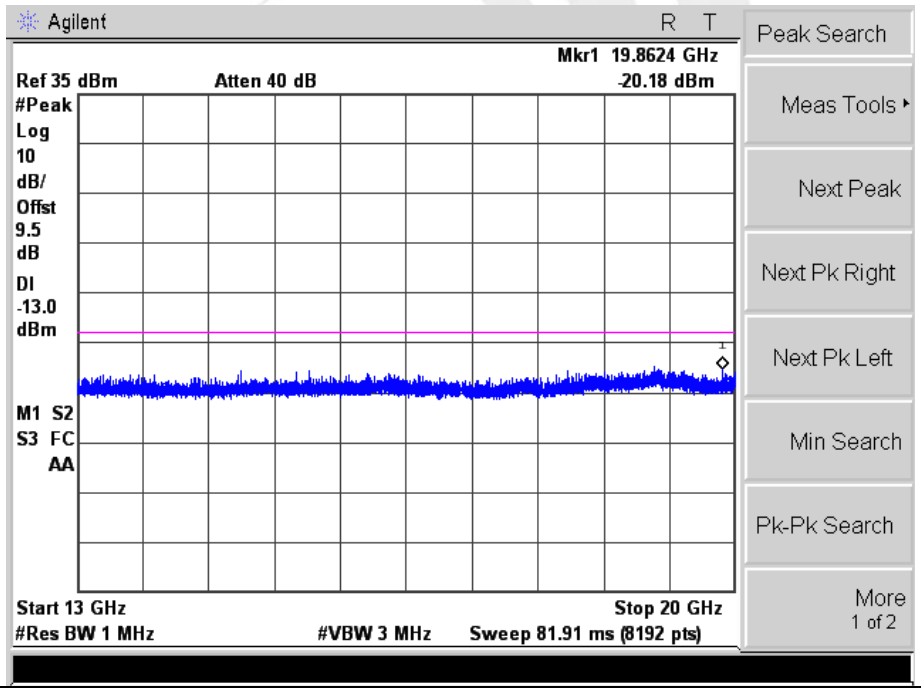
Conducted Emission Transmitting Mode CH 512 30MHz – 20GHz



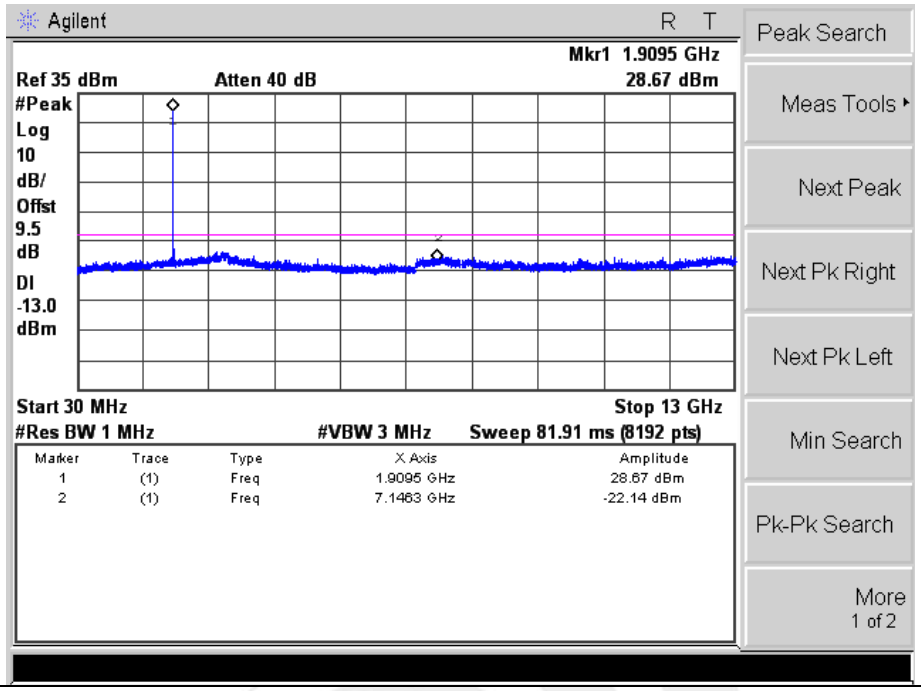


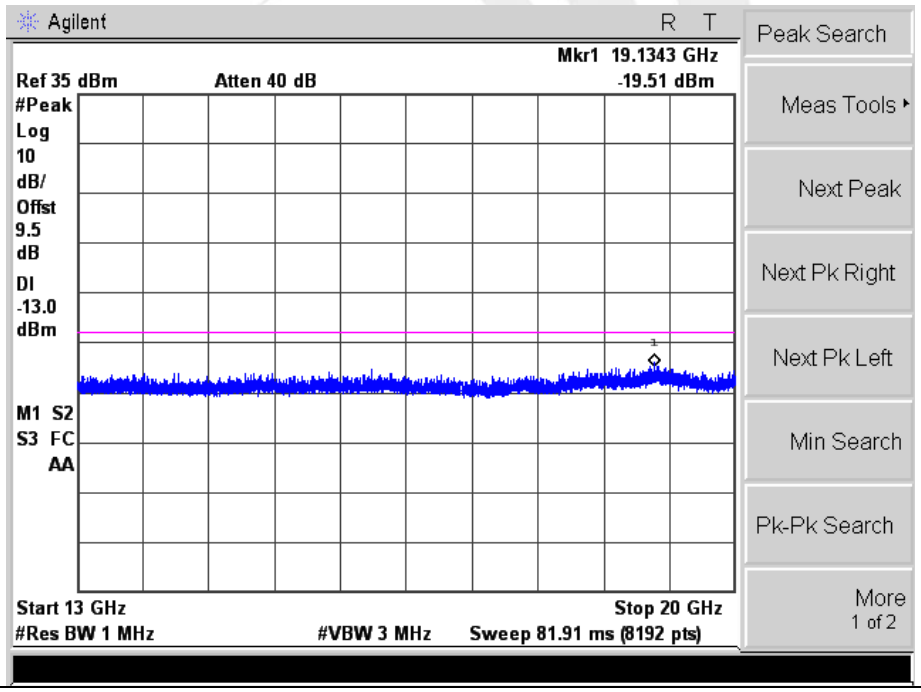
Conducted Emission Transmitting Mode CH 661 30MHz – 20GHz





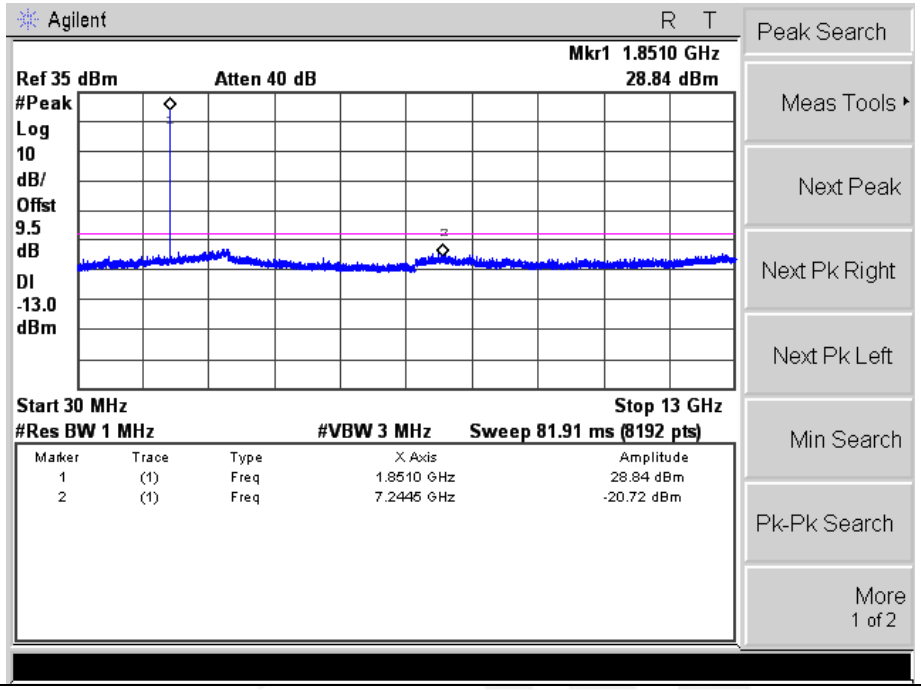
Conducted Emission Transmitting Mode CH 810 30MHz – 20GHz

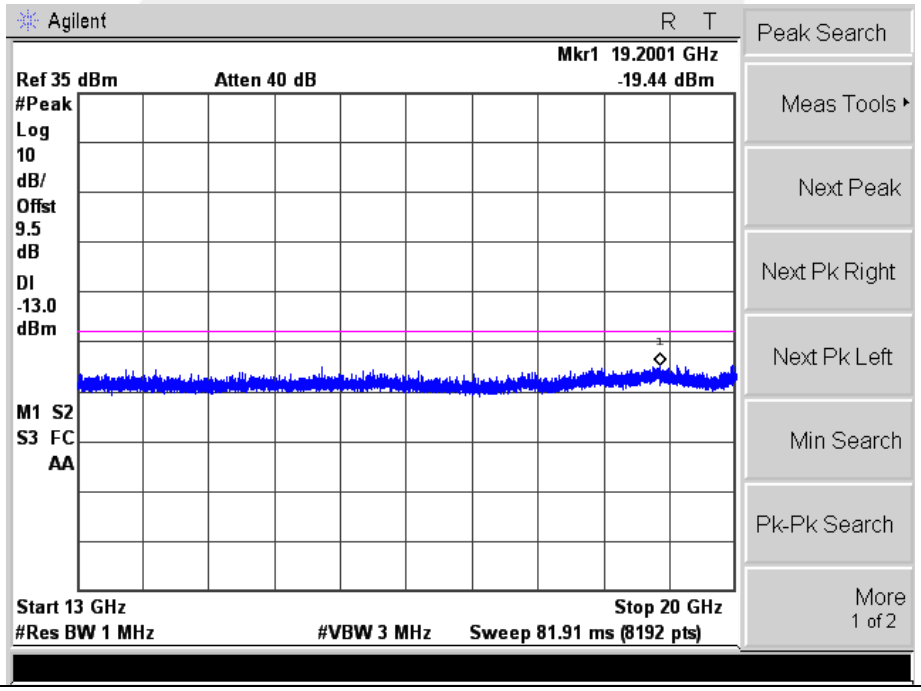




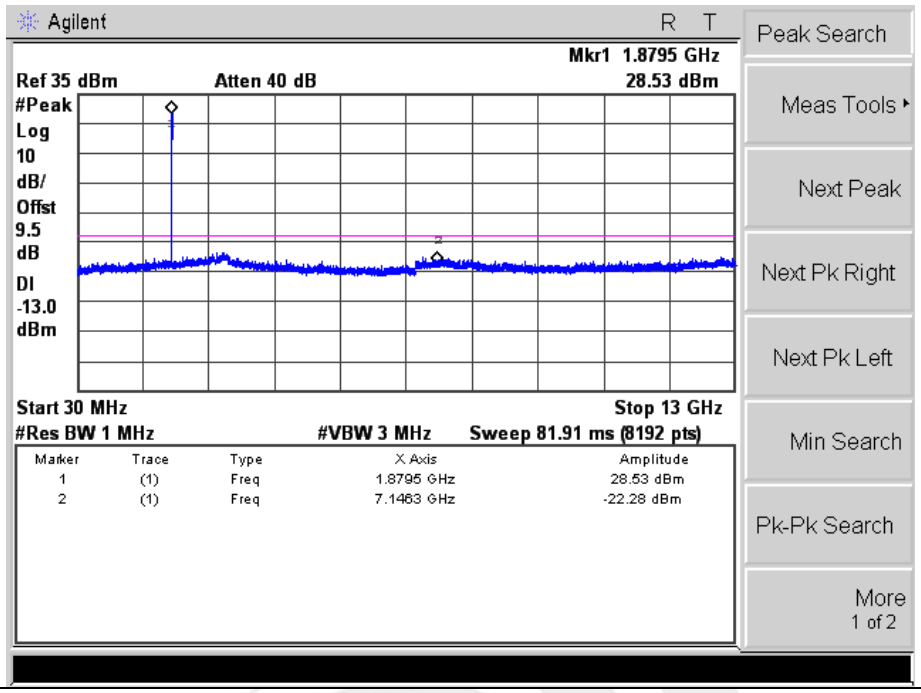
CONDUCTED EMISSION IN GPRS1900 BAND

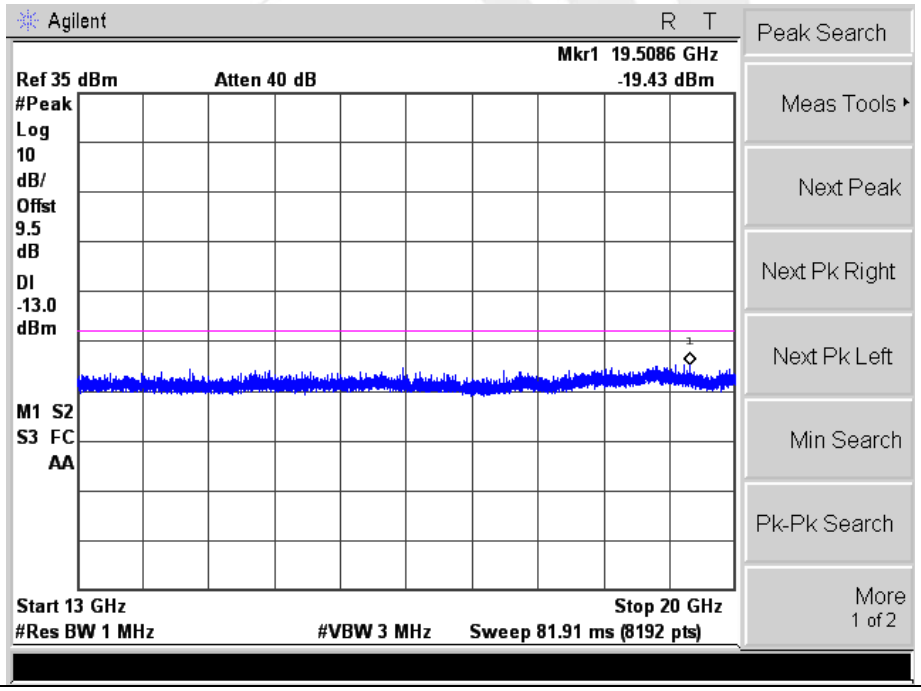
Conducted Emission Transmitting Mode CH 512 30MHz – 20GHz



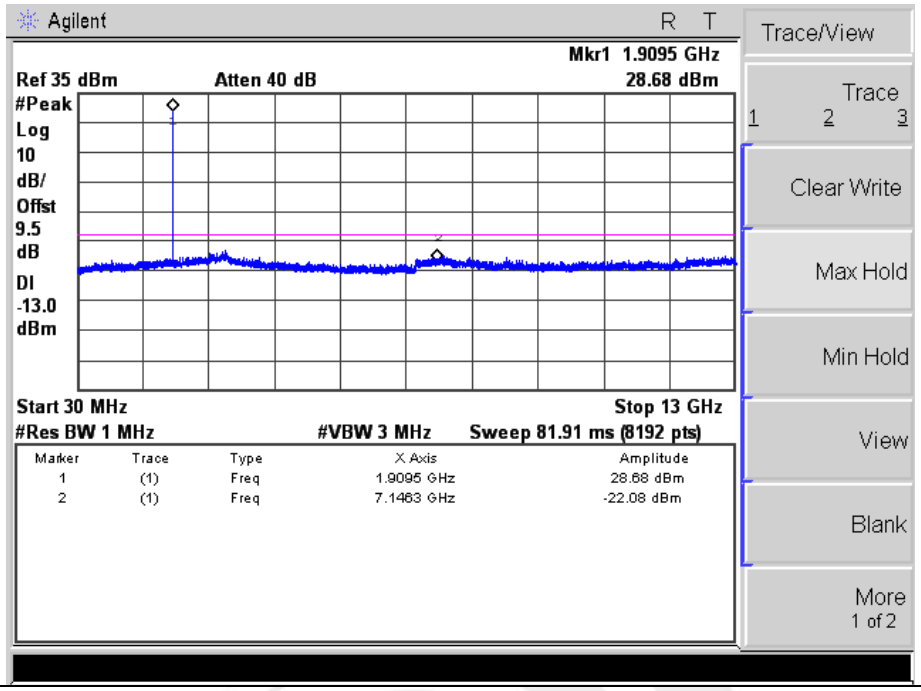


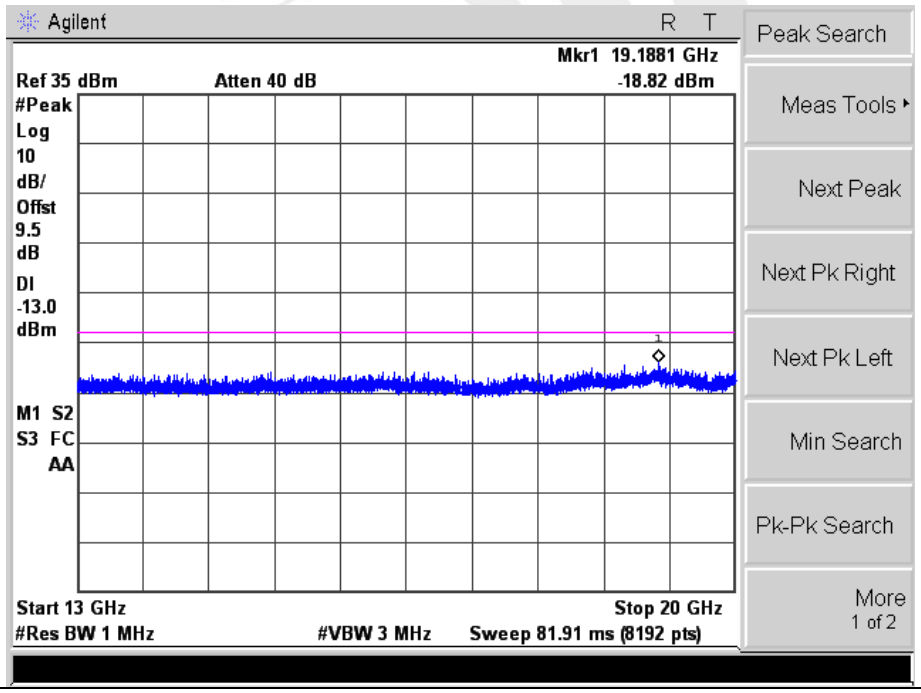
Conducted Emission Transmitting Mode CH 661 30MHz – 20GHz



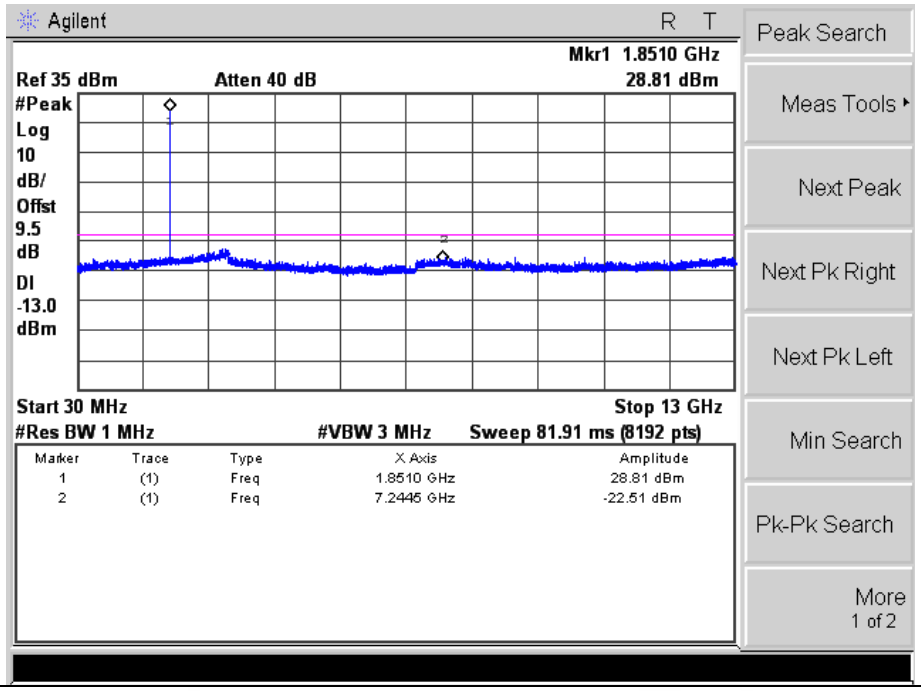
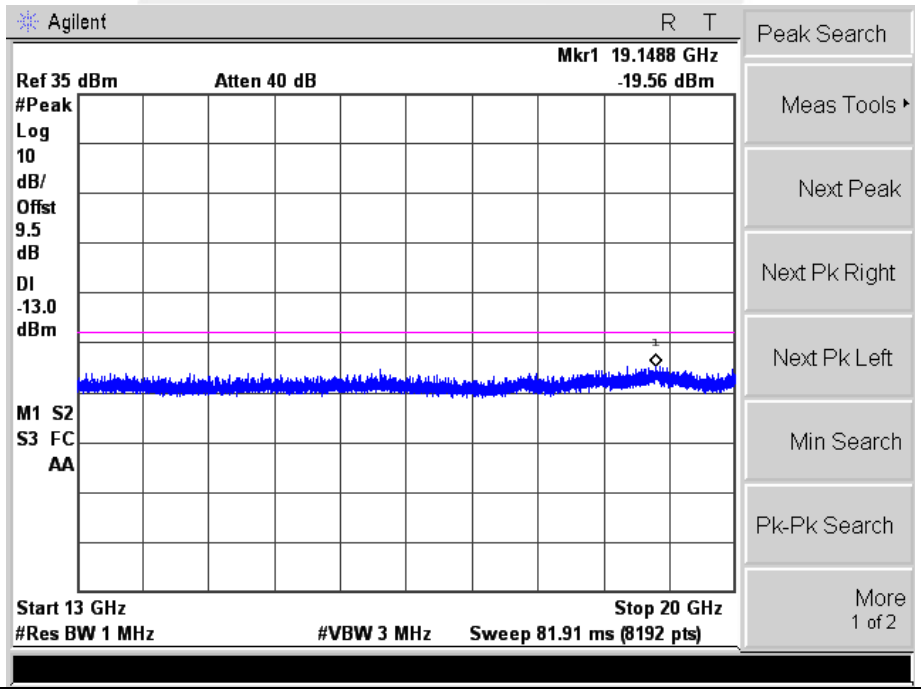


Conducted Emission Transmitting Mode CH 810 30MHz – 20GHz

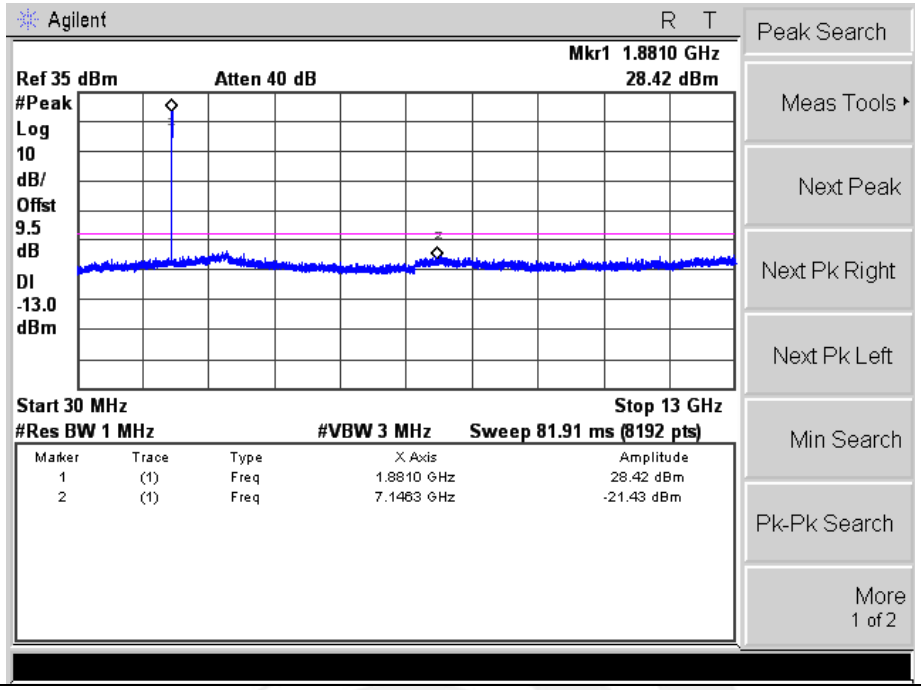


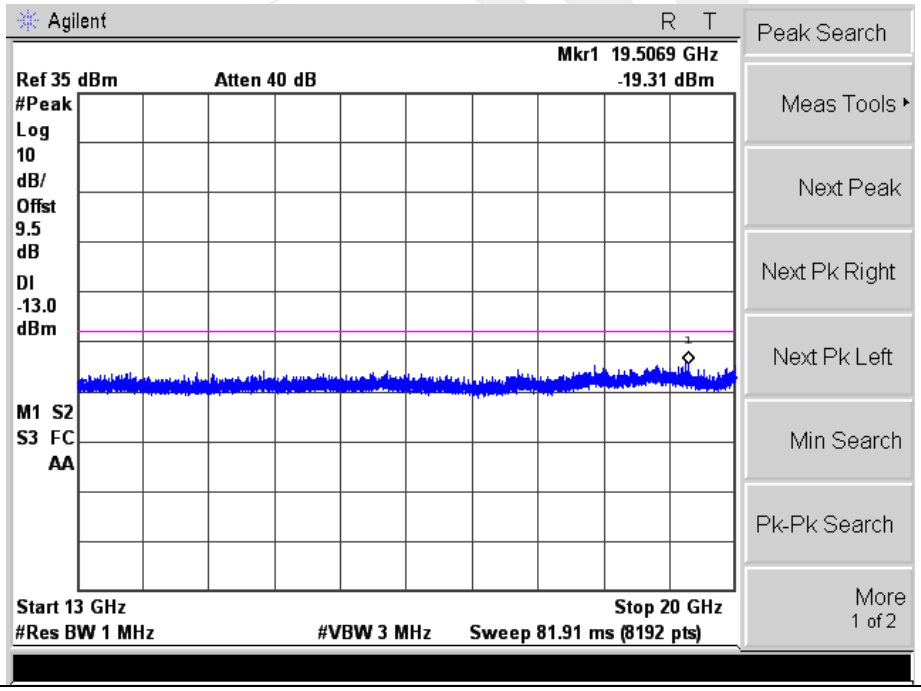


CONDUCTED EMISSION IN EDGE 1900 BAND

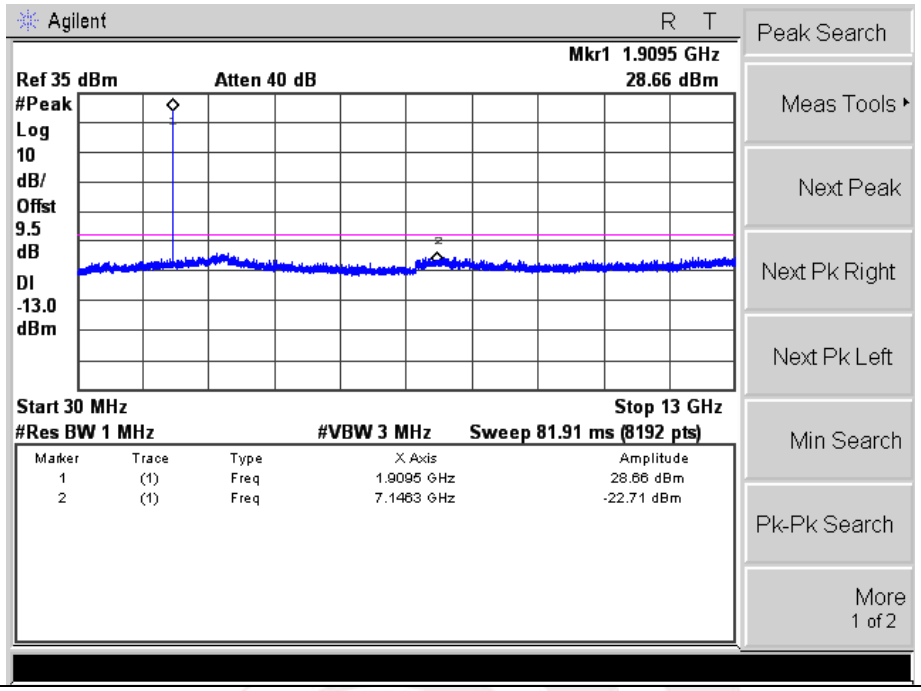
Conducted Emission Transmitting Mode CH 512 30MHz – 20GHz



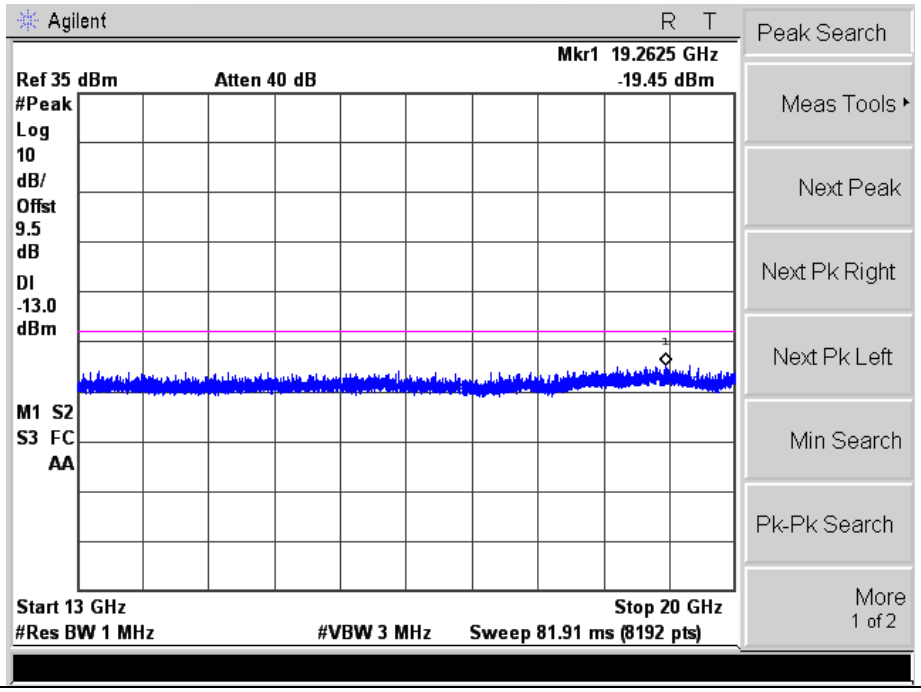
Conducted Emission Transmitting Mode CH 661 30MHz – 20GHz





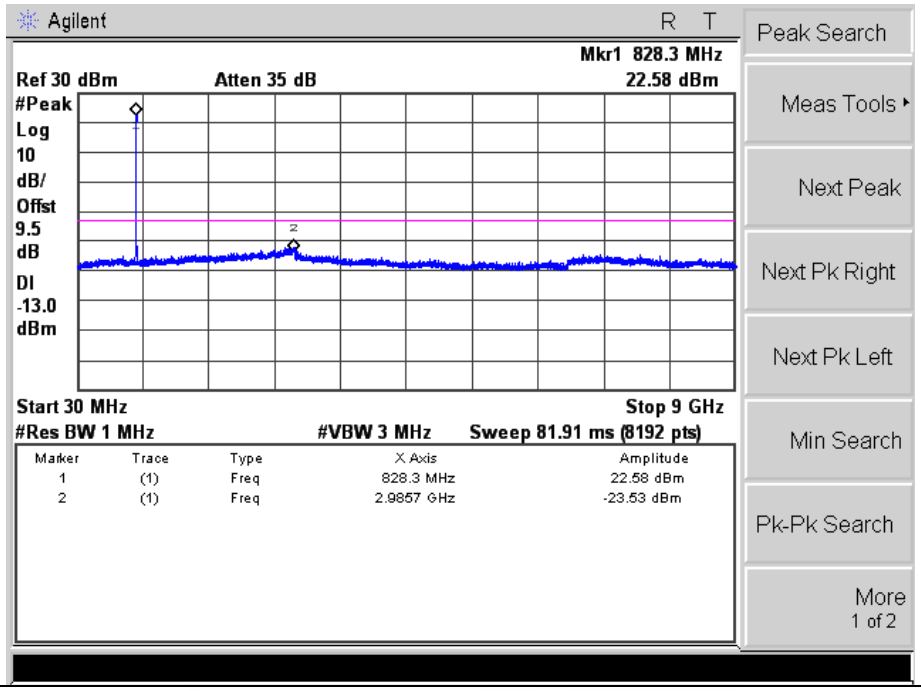
Conducted Emission Transmitting Mode CH 810 30MHz – 20GHz



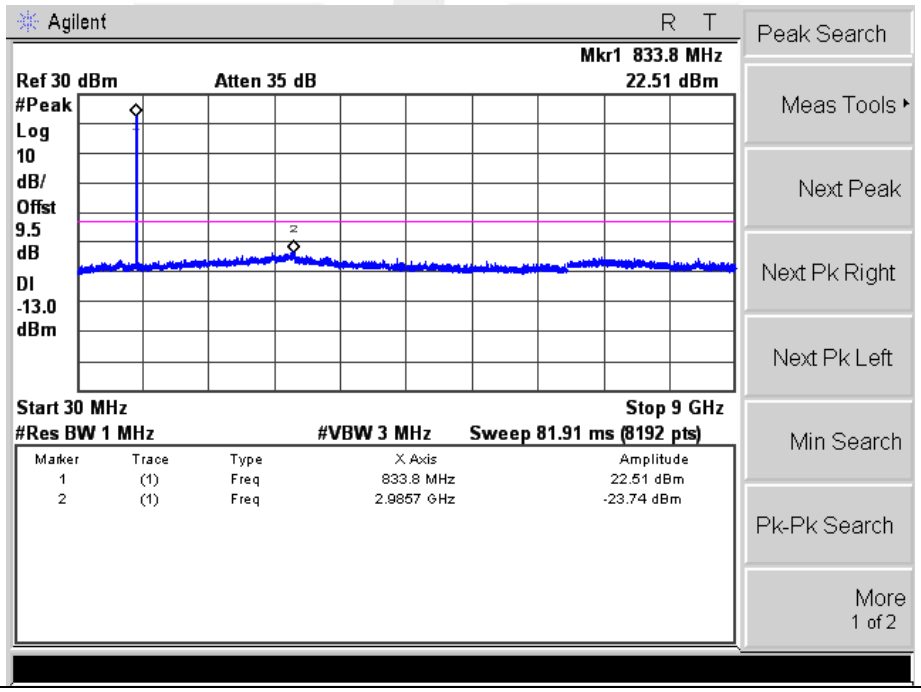


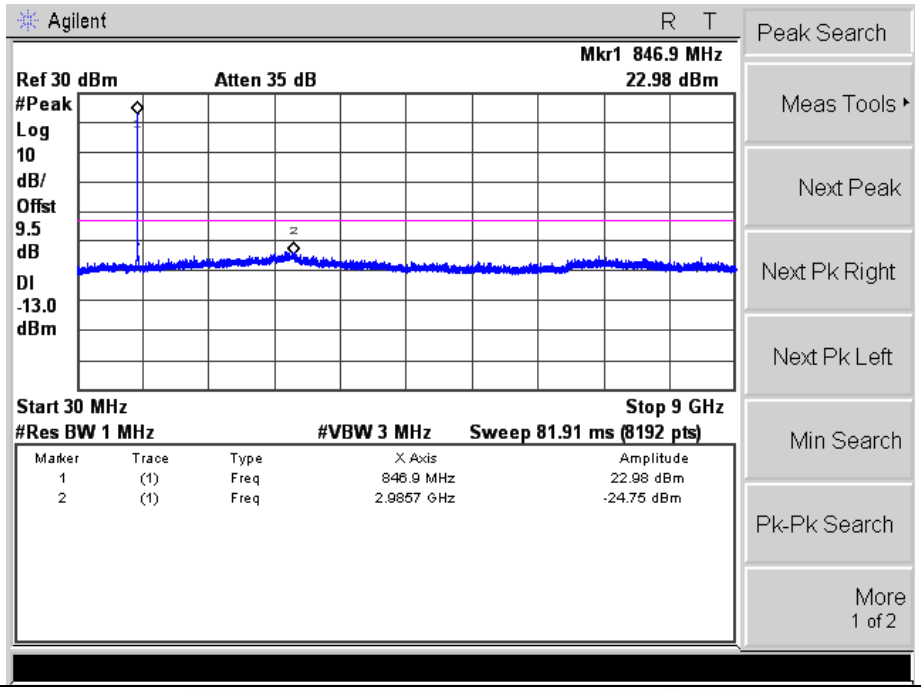
CONDUCTED EMISSION IN UMTS band V

Conducted Emission Transmitting Mode 4132 30MHz – 9GHz

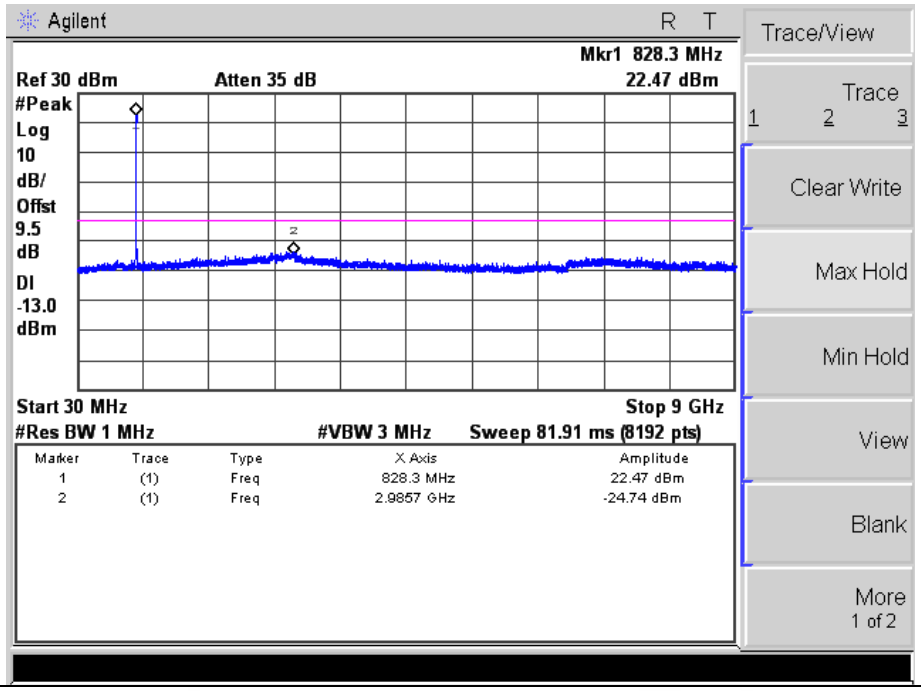


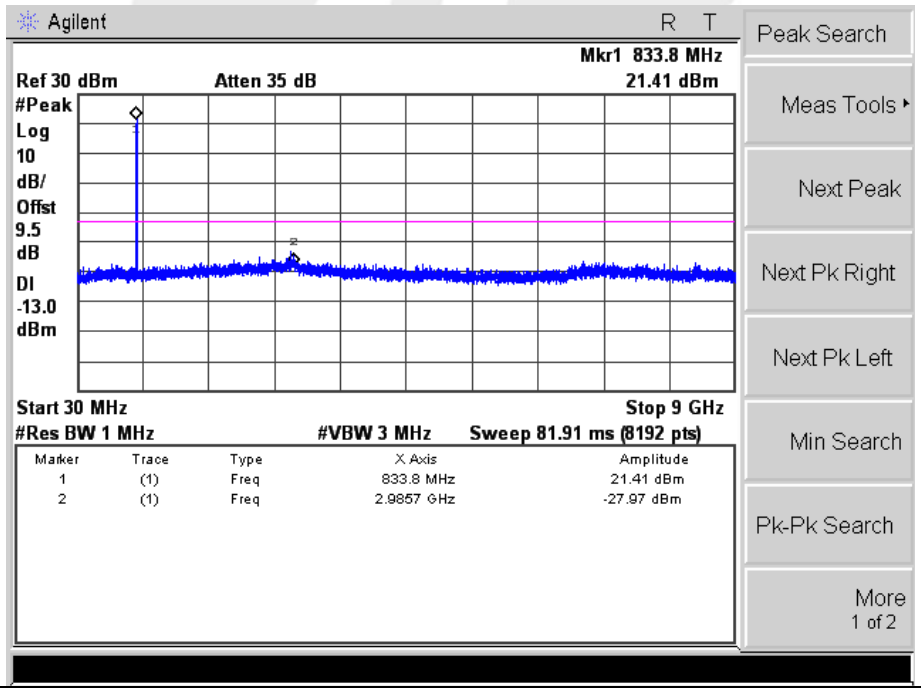
Conducted Emission Transmitting Mode CH 4183 30MHz – 9GHz

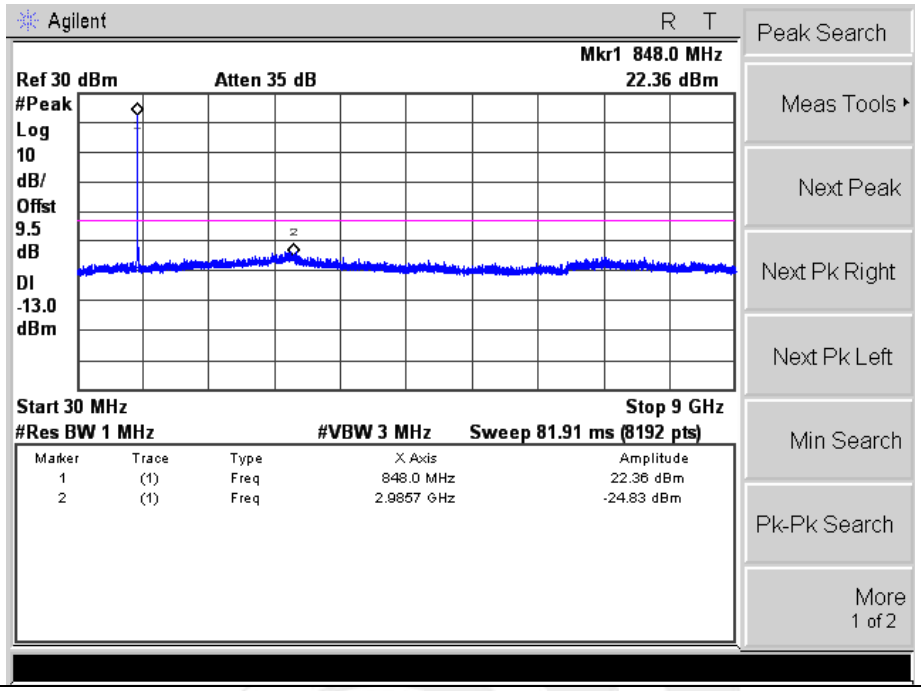


Conducted Emission Transmitting Mode CH 4233 30MHz – 9GHz


CONDUCTED EMISSION IN UMTS HSDPA band V

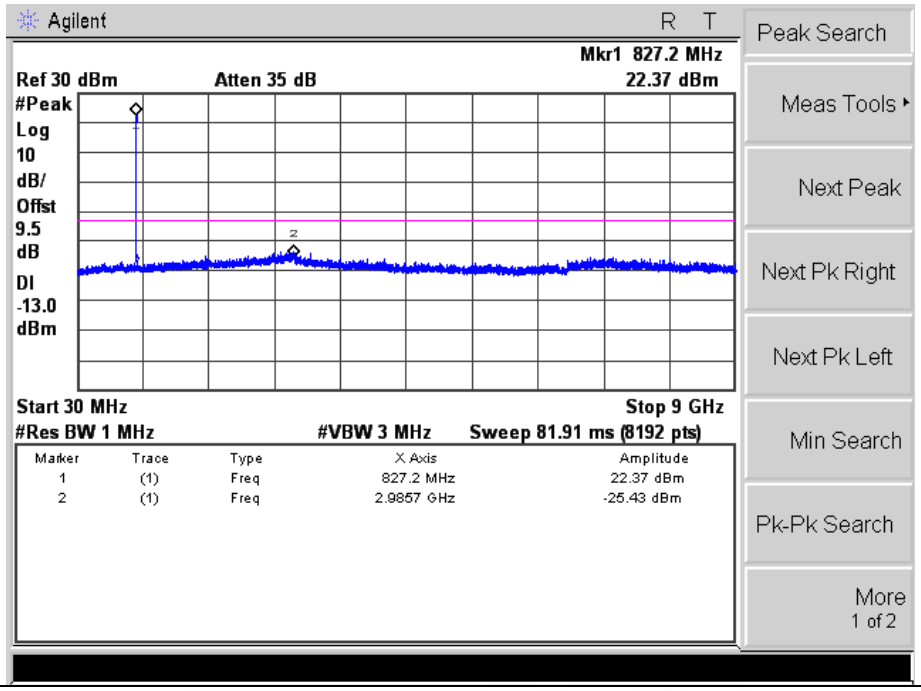
Conducted Emission Transmitting Mode CH 4132 30MHz – 9GHz


Conducted Emission Transmitting Mode CH 4132 30MHz – 9GHz


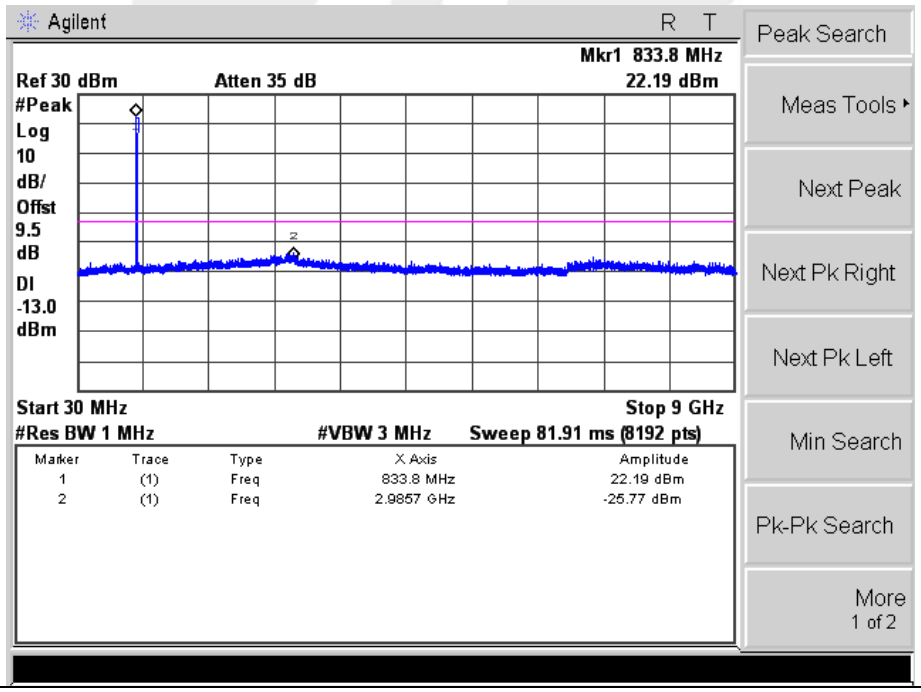
Conducted Emission Transmitting Mode CH 4233 30MHz – 9GHz


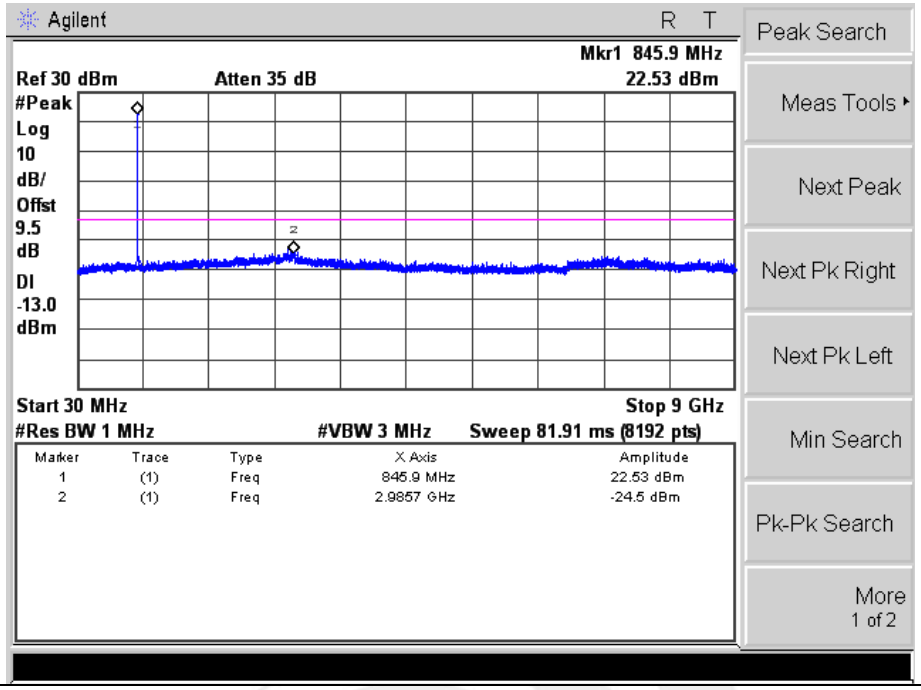
CONDUCTED EMISSION IN UMTS HSUPA band V

Conducted Emission Transmitting Mode CH 4132 30MHz – 9GHz

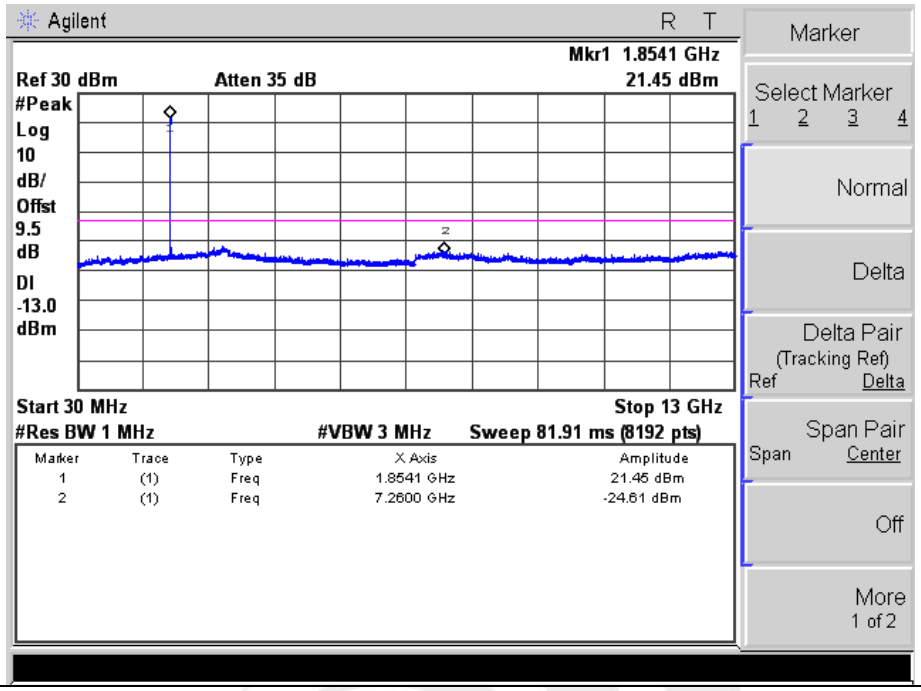
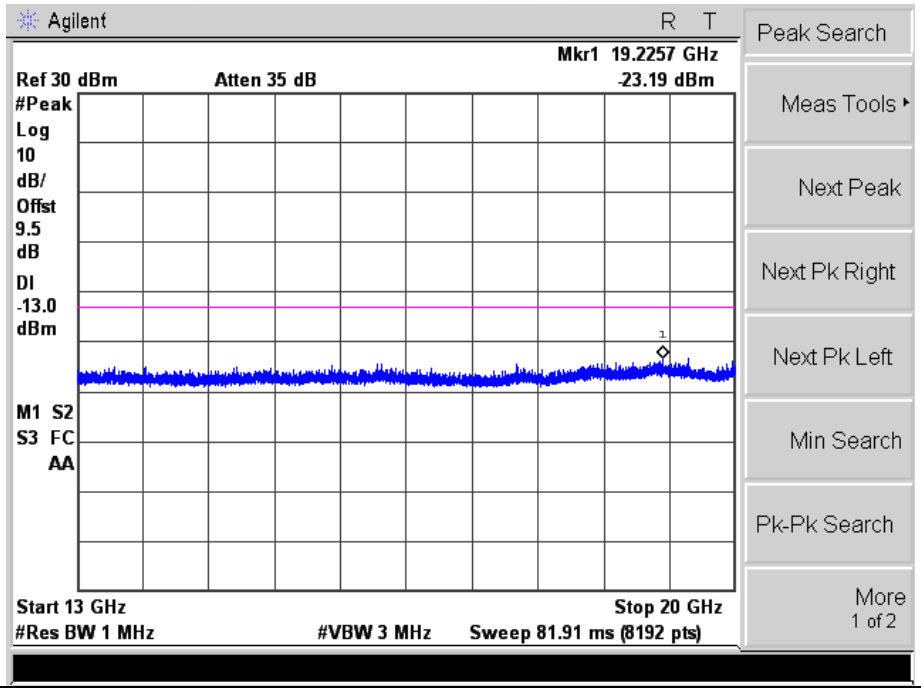


Conducted Emission Transmitting Mode CH 4183 30MHz – 9GHz

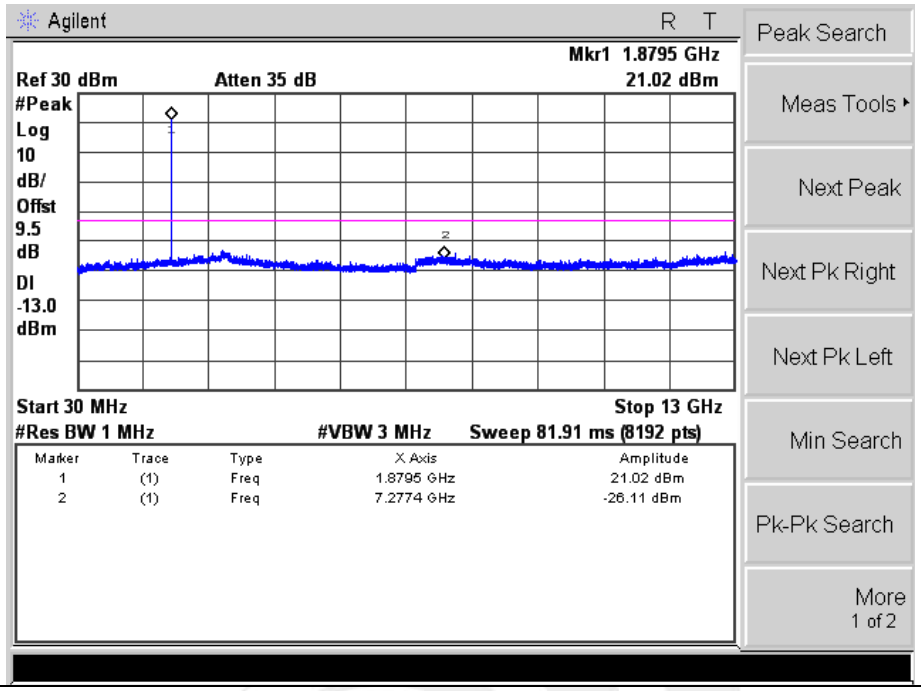


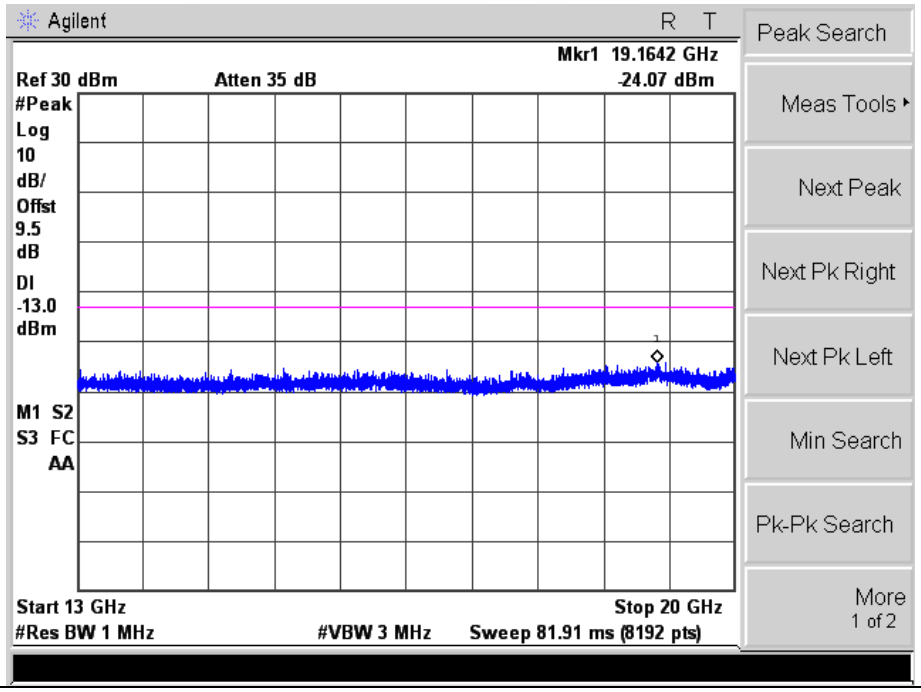
Conducted Emission Transmitting Mode CH 4233 30MHz – 9GHz


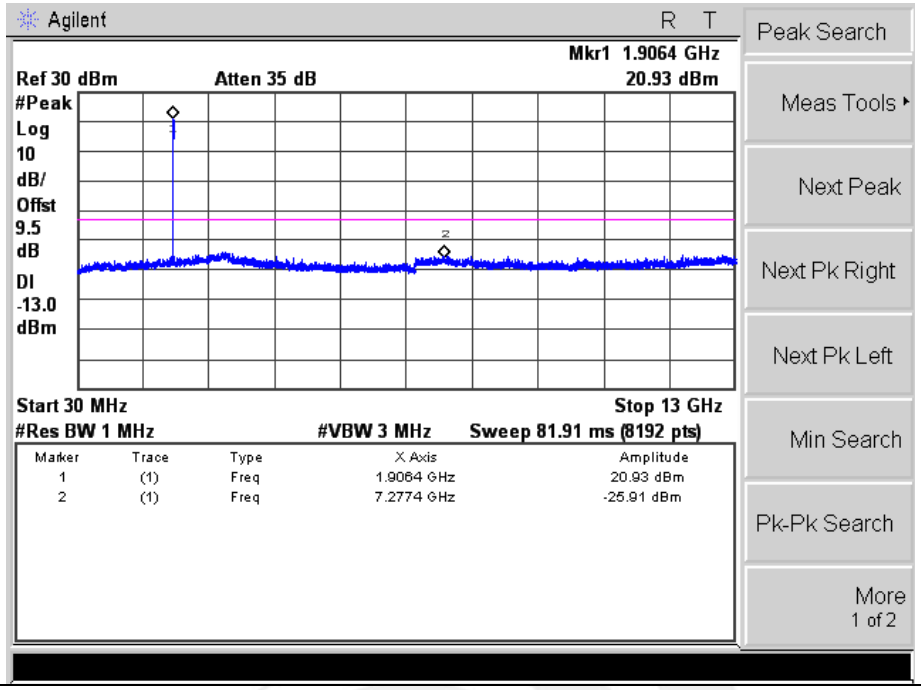
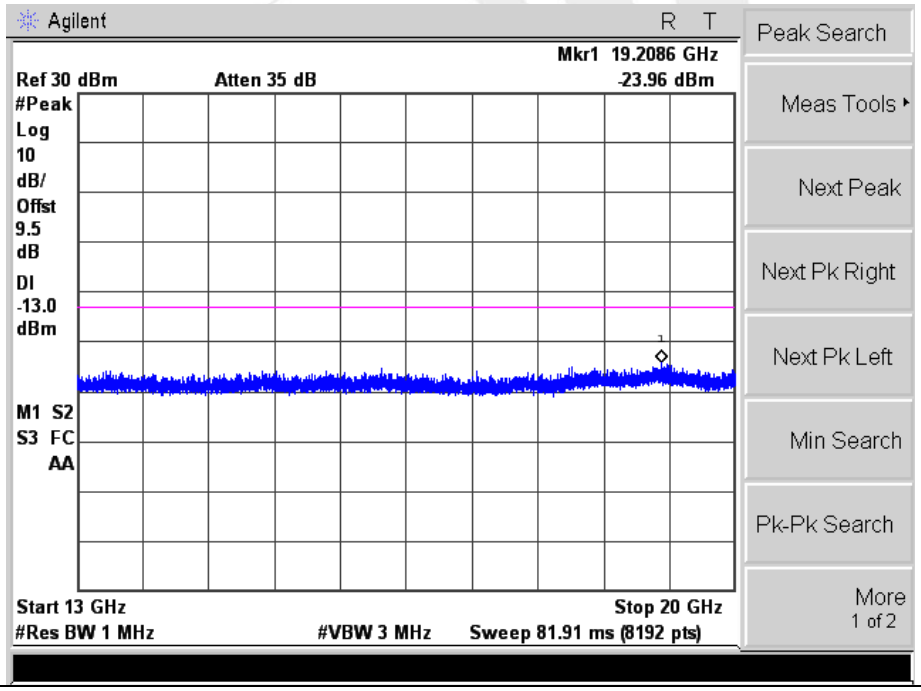
CONDUCTED EMISSION IN UMTS band II

Conducted Emission Transmitting Mode 9262 30MHz – 20GHz



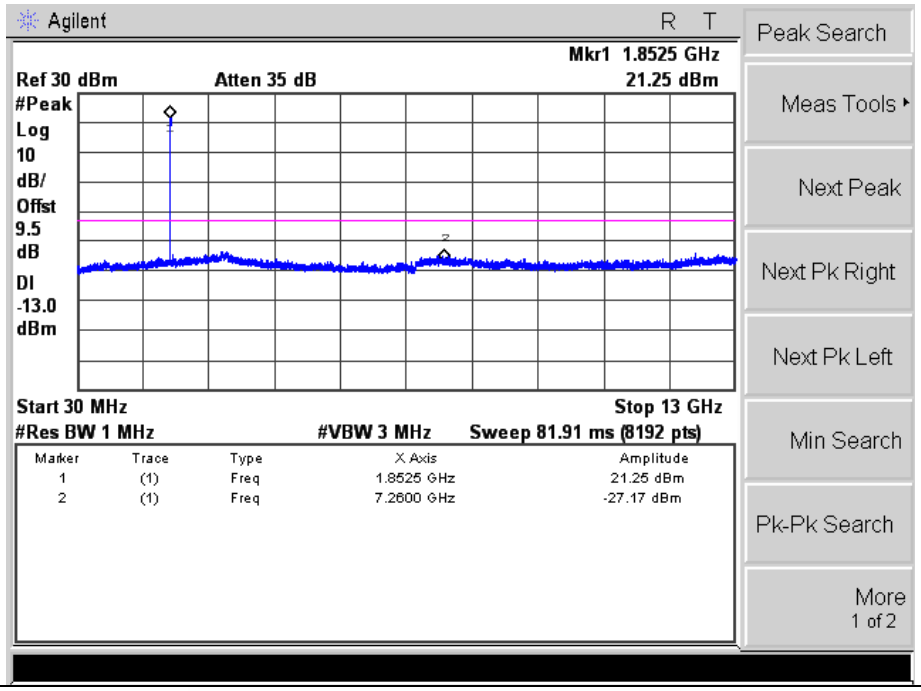
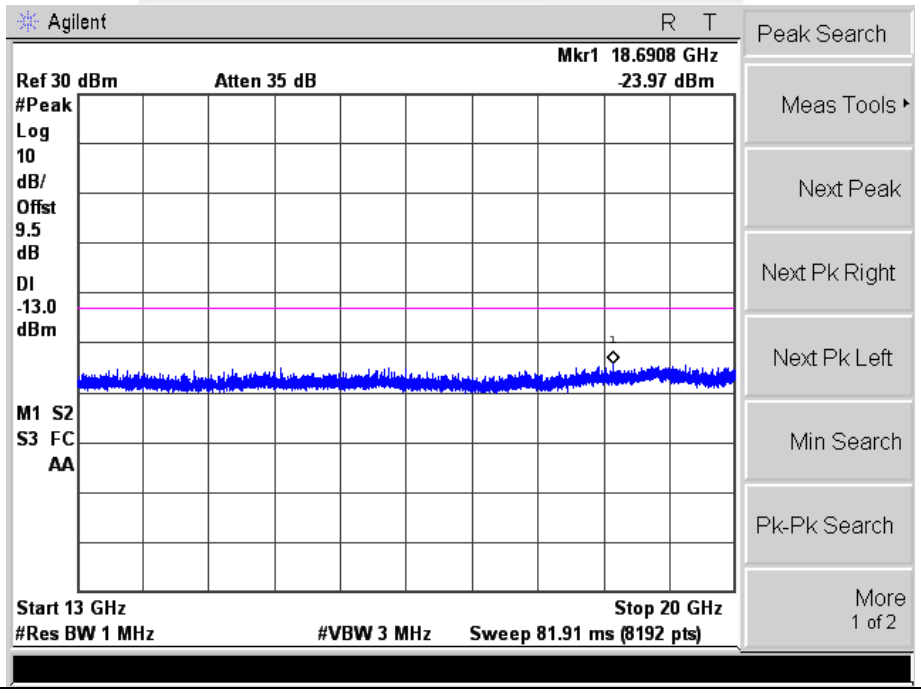
Conducted Emission Transmitting Mode CH 9400 30MHz – 20GHz



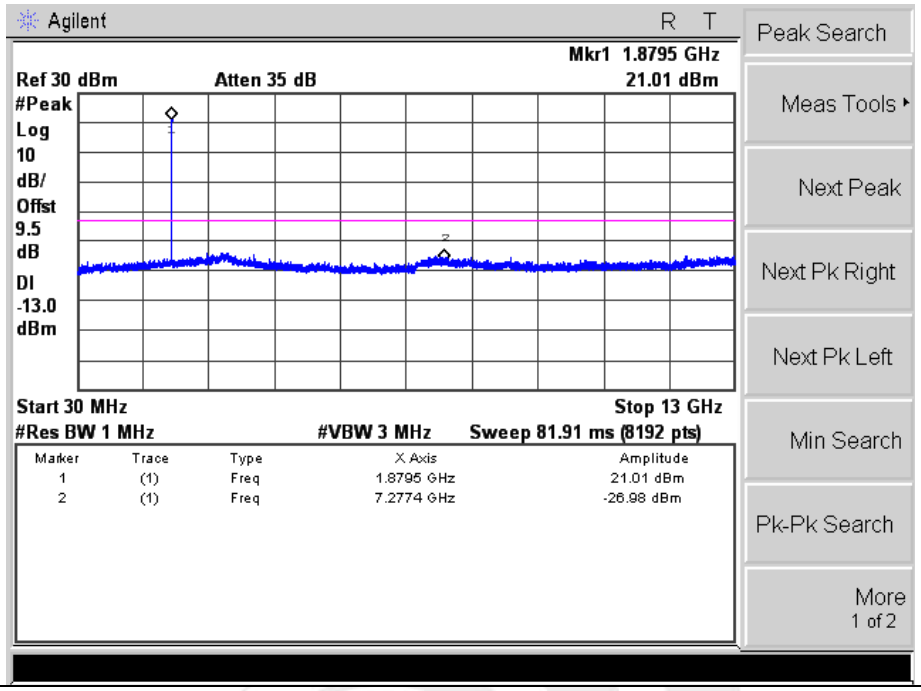


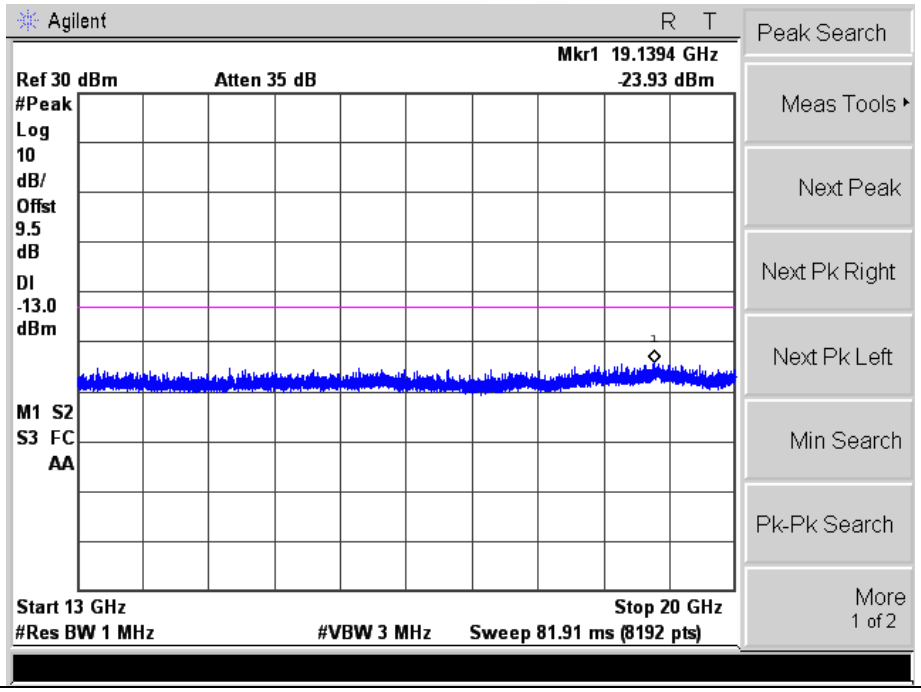
Conducted Emission Transmitting Mode CH 9538 30MHz – 20GHz



CONDUCTED EMISSION IN UMTS HSDPA band II

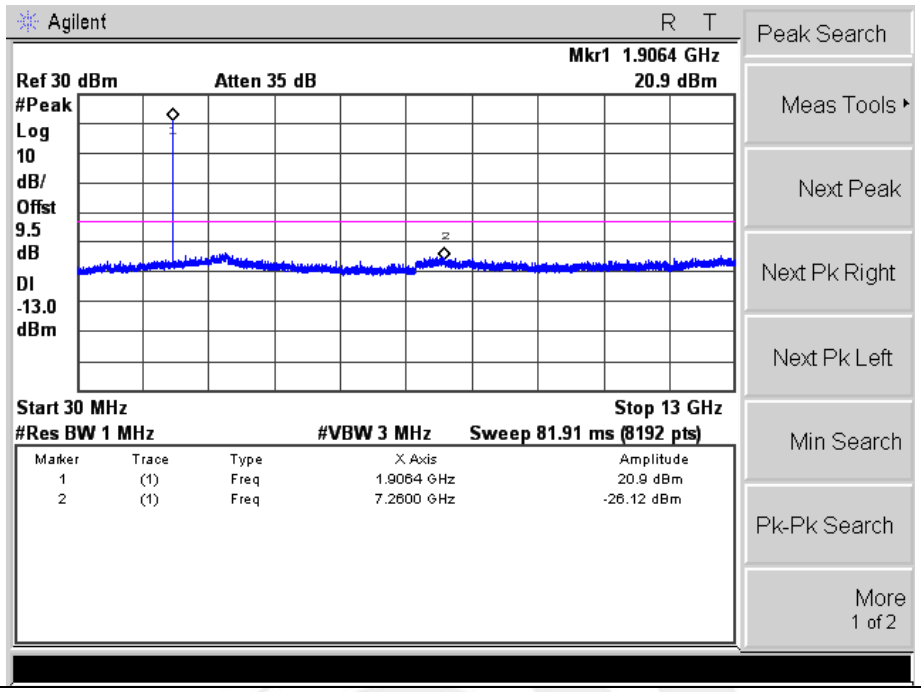
Conducted Emission Transmitting Mode CH 9262 30MHz – 20GHz



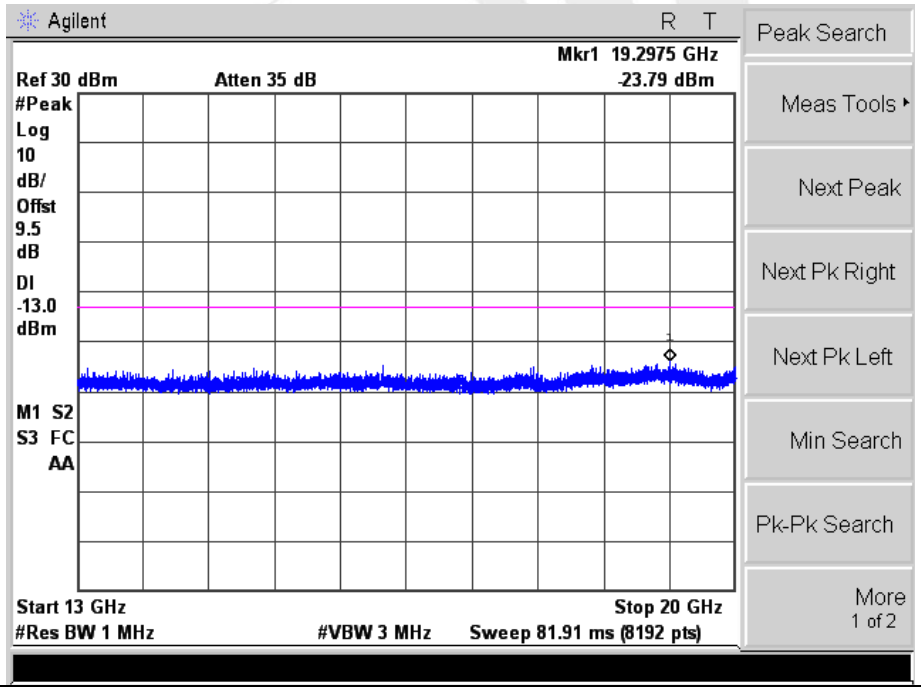
Conducted Emission Transmitting Mode CH 9400 30MHz – 20GHz



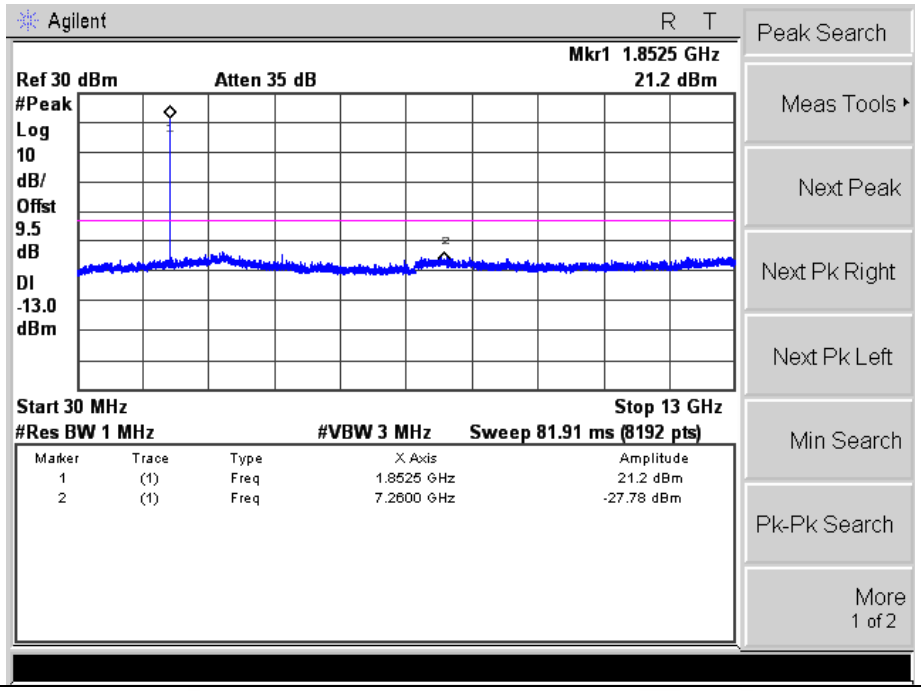
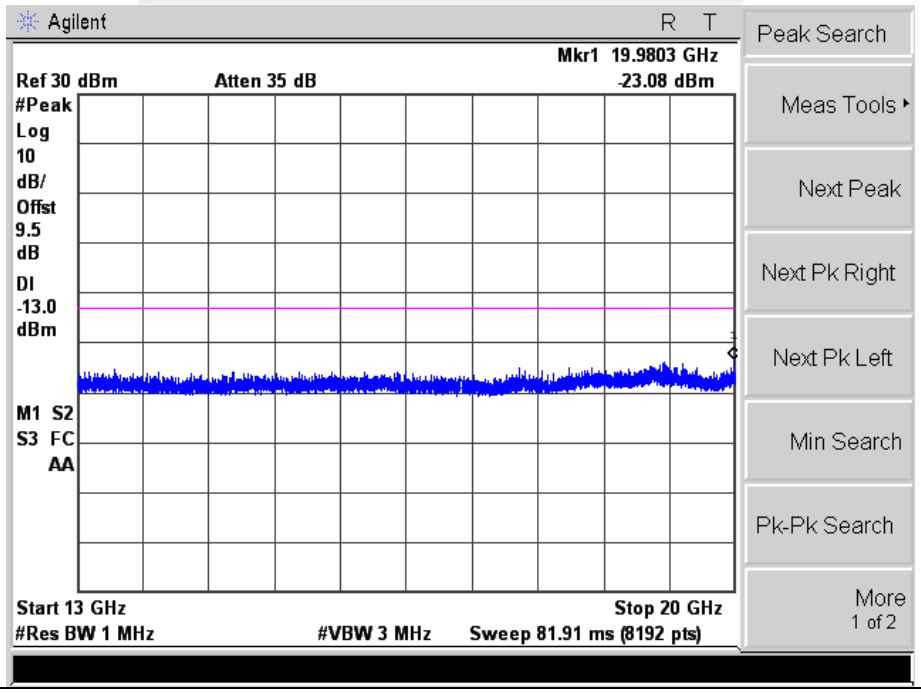


Conducted Emission Transmitting Mode CH 9538 30MHz – 20GHz

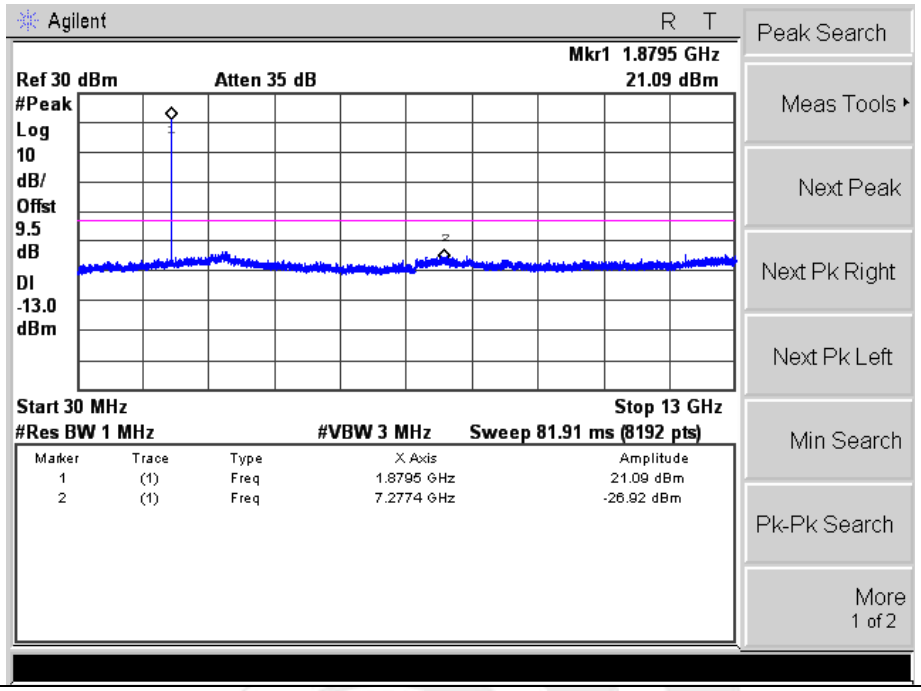


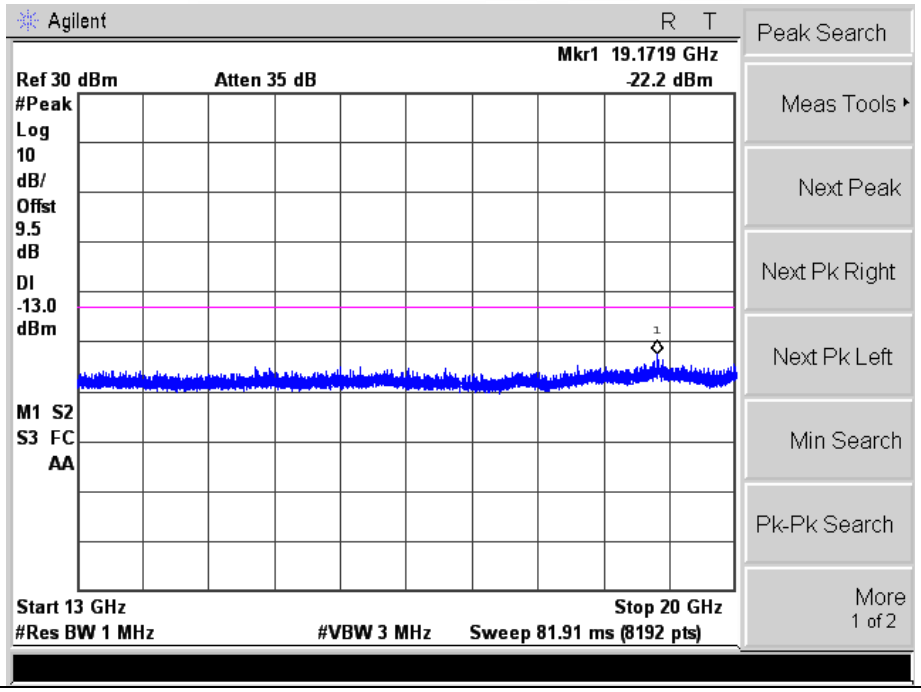


CONDUCTED EMISSION IN UMTS HSUPA band II

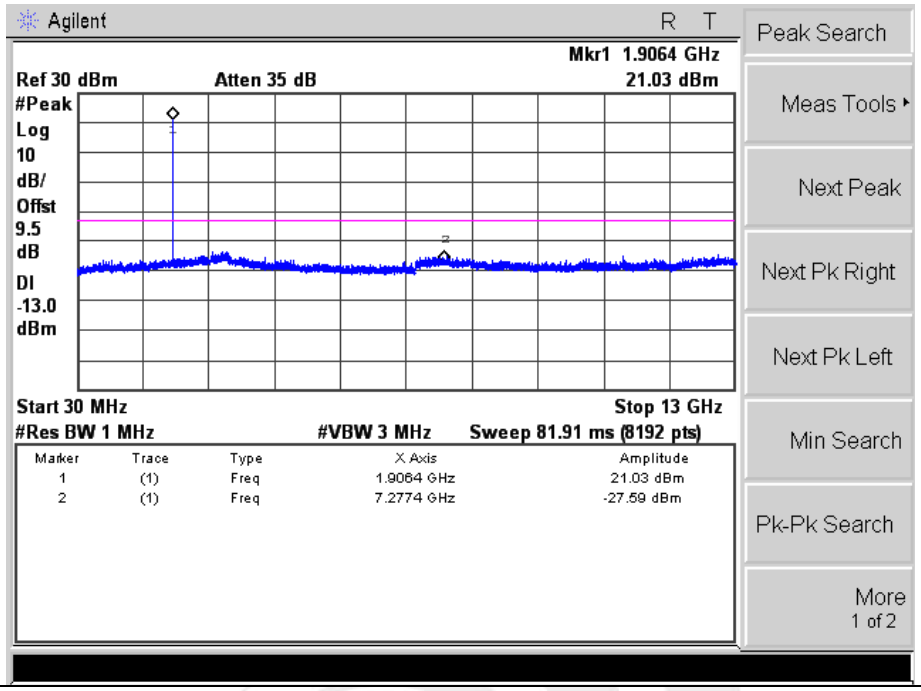
Conducted Emission Transmitting Mode CH 9262 30MHz – 20GHz



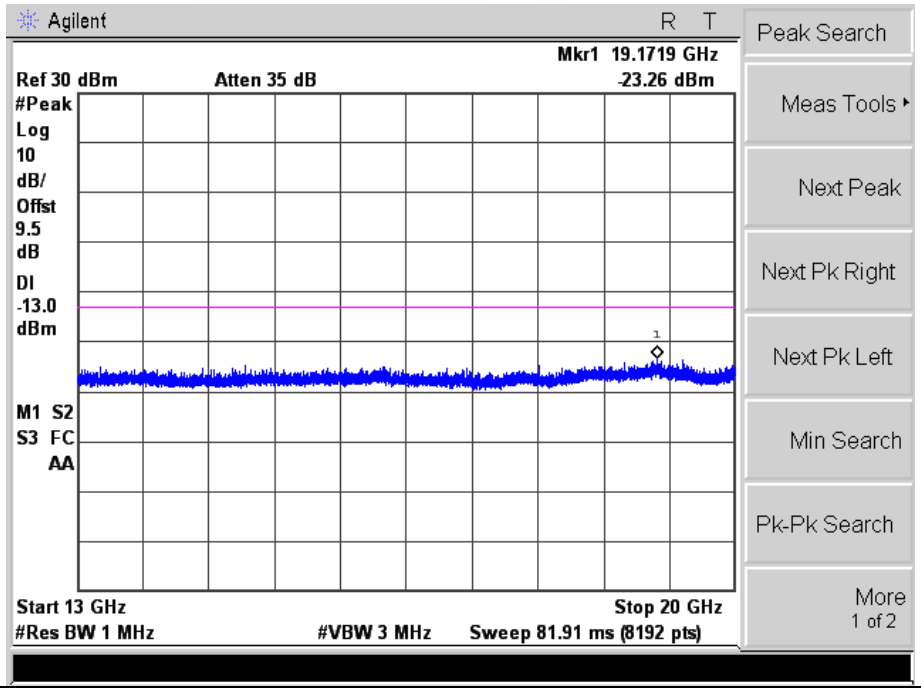
Conducted Emission Transmitting Mode CH 9400 30MHz – 20GHz





Conducted Emission Transmitting Mode CH 9538 30MHz – 20GHz



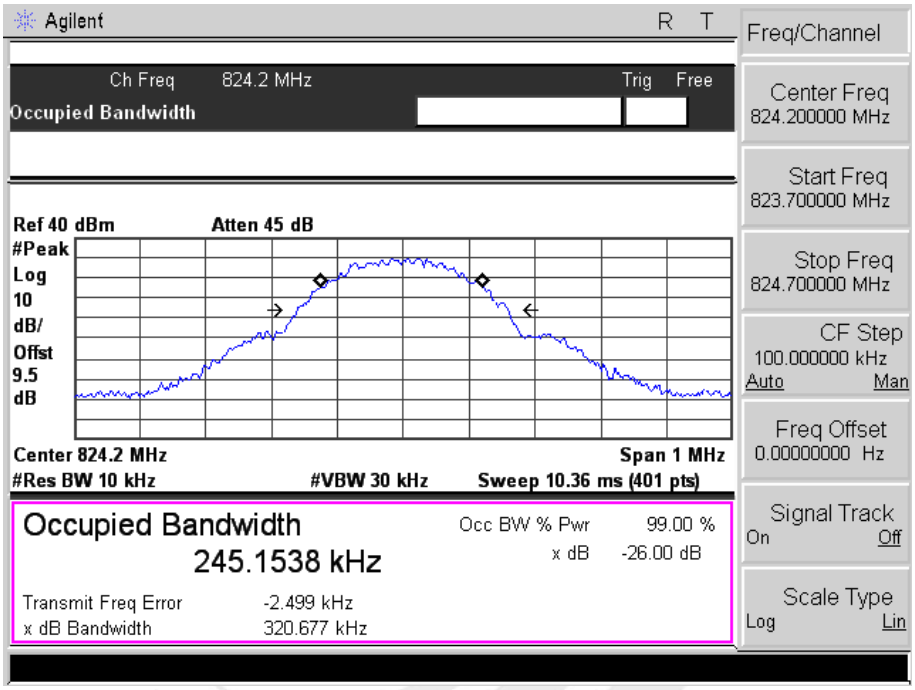


APPENDIX II

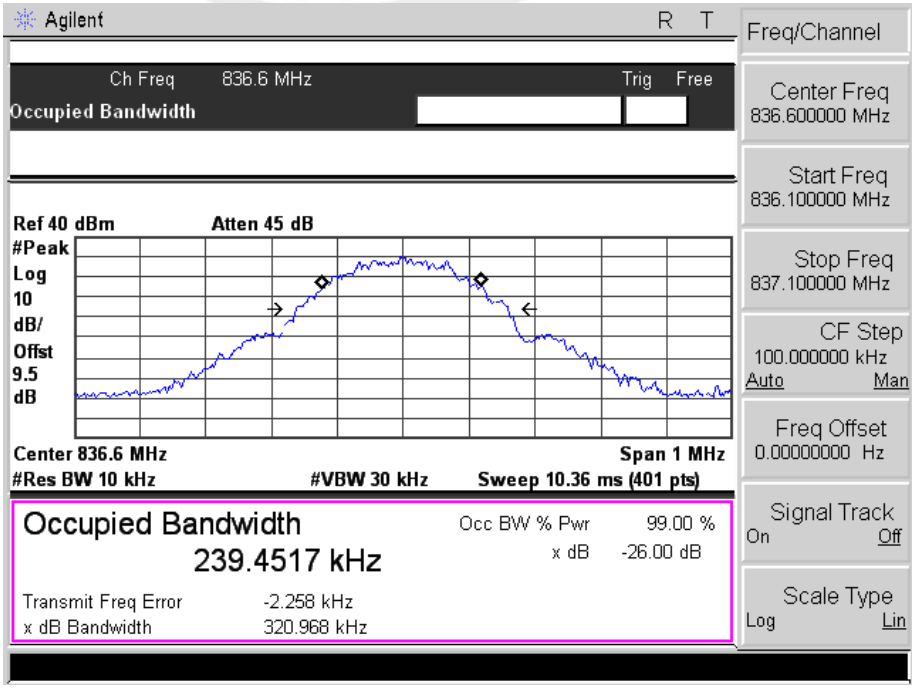
TEST PLOTS FOR OCCUPIED BANDWIDTH (99%)

EMISSION BANDWIDTH (-26dBC)

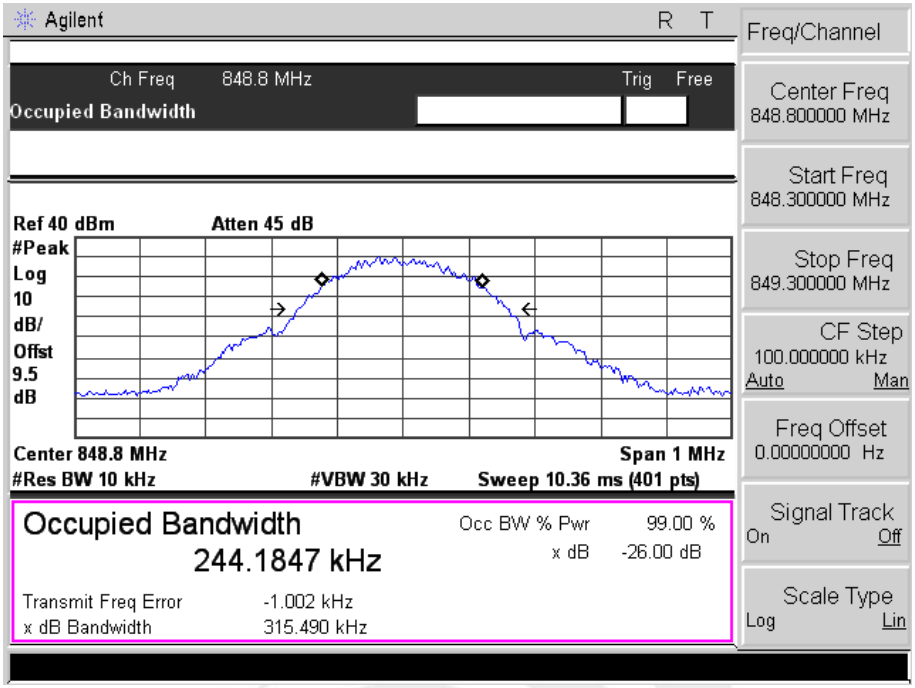
Occupied Bandwidth (99%) GSM 850 BAND CH 128



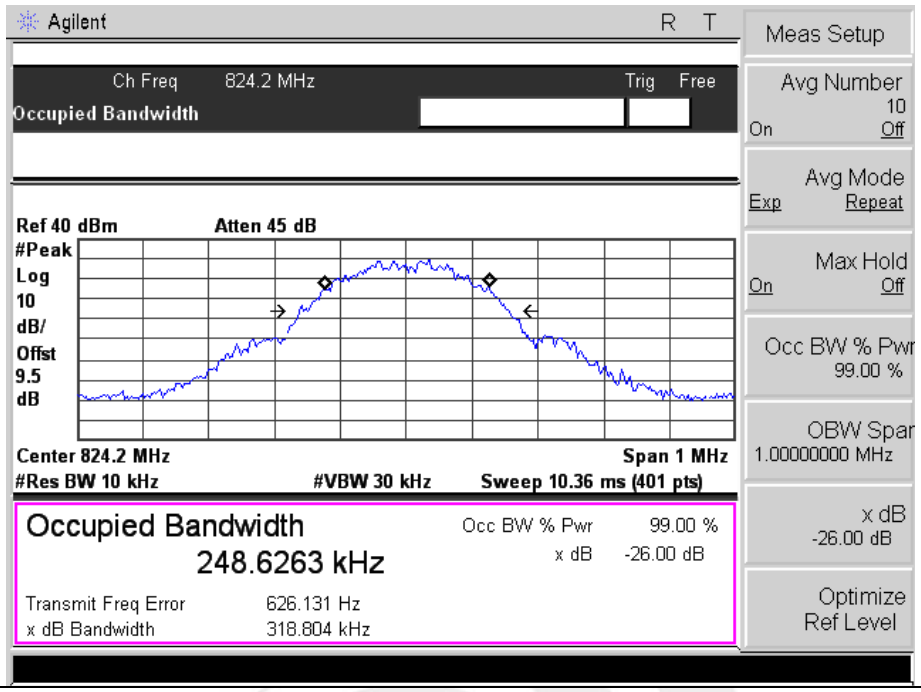
Occupied Bandwidth (99%) GSM 850 BAND CH 190



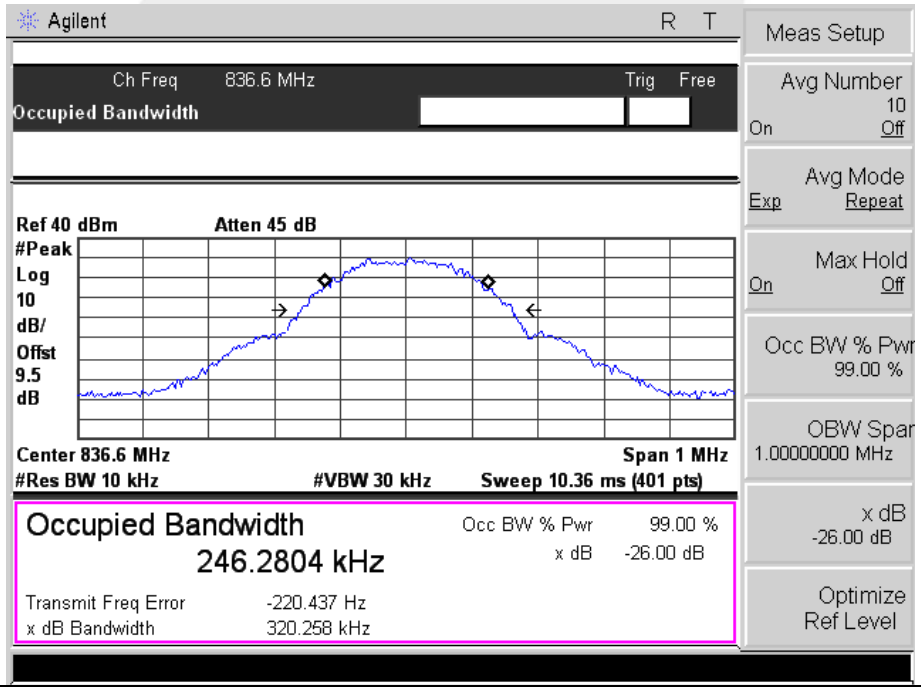
Occupied Bandwidth (99%) GSM 850 BAND CH 251

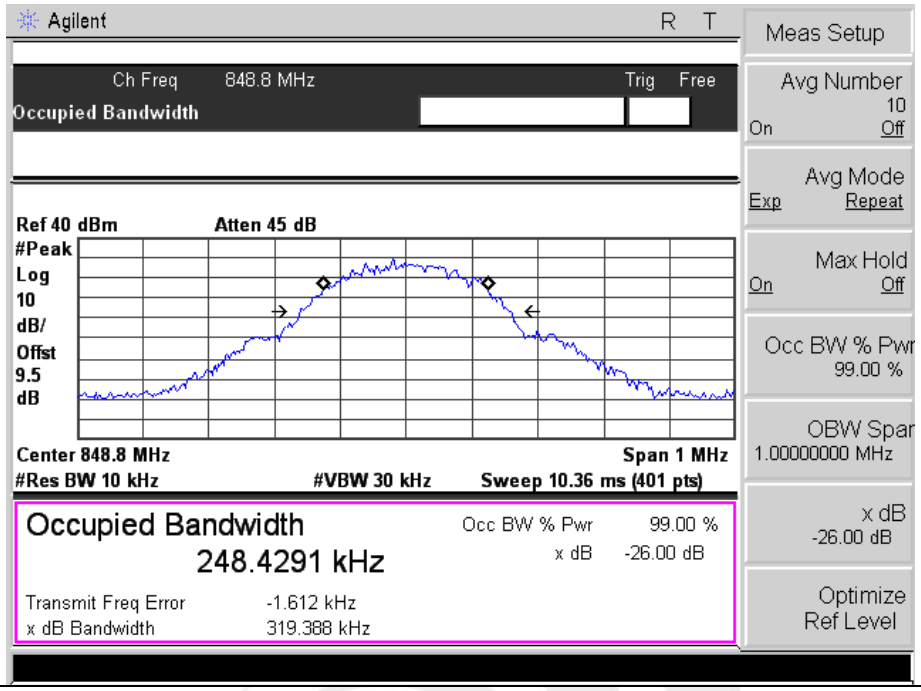


Occupied Bandwidth (99%) GPRS 850 BAND CH 128

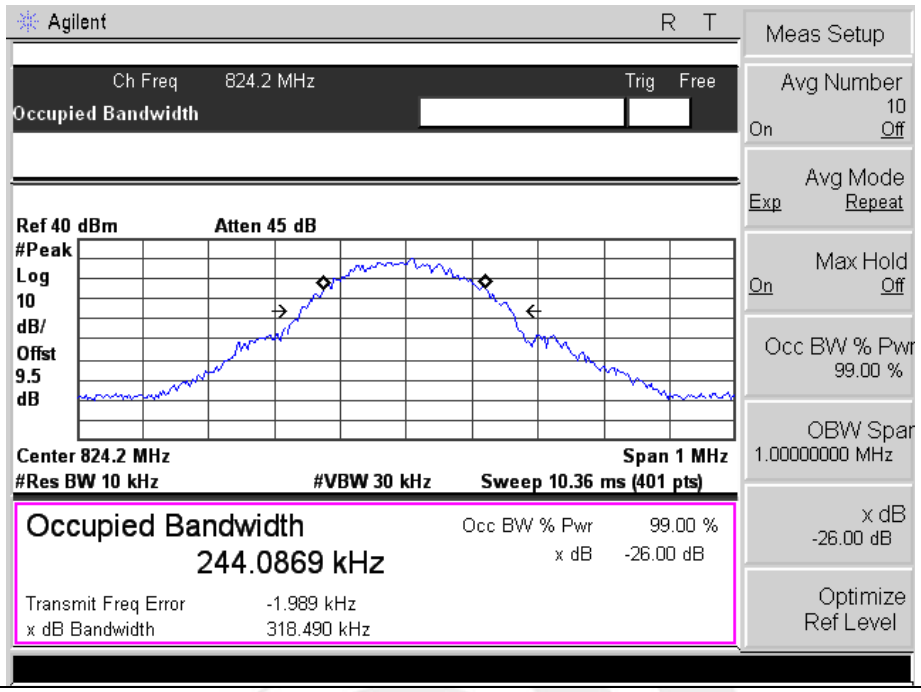


Occupied Bandwidth (99%) GPRS 850 BAND CH 190

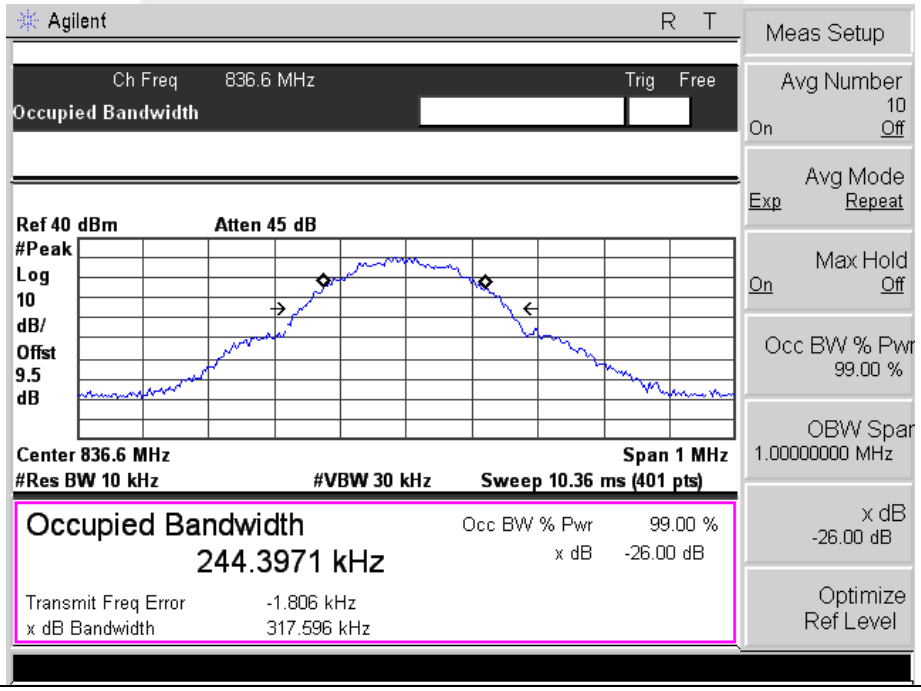


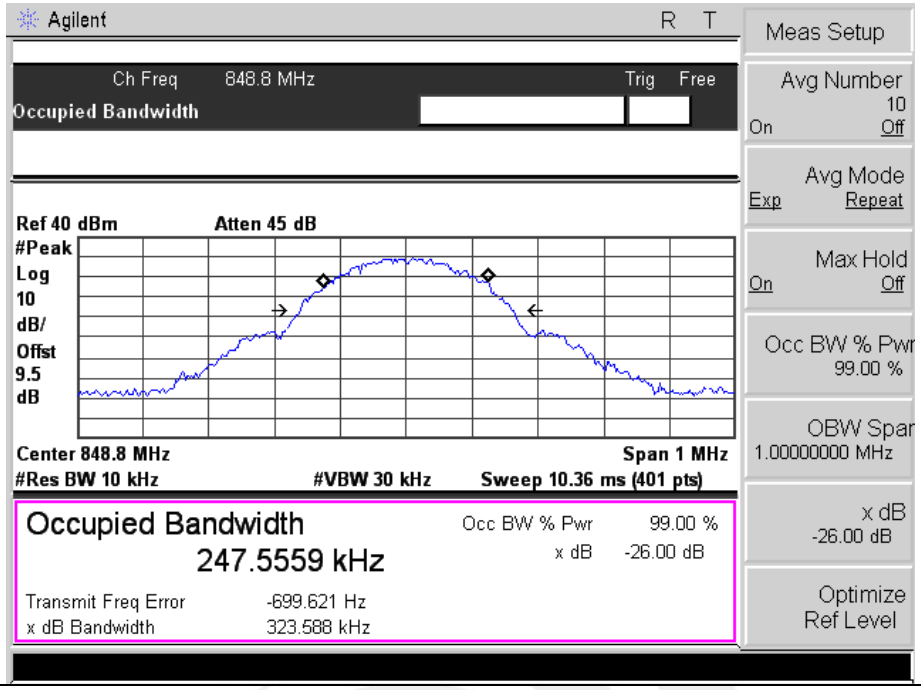
Occupied Bandwidth (99%) GRPS 850 BAND CH 251


Occupied Bandwidth (99%) EDGE 850 BAND CH 128

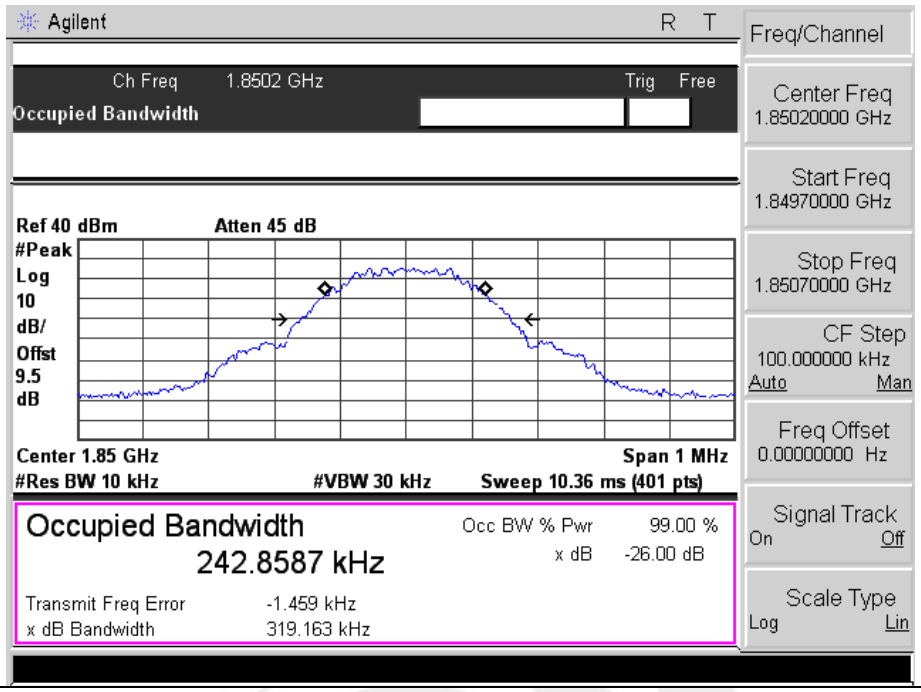


Occupied Bandwidth (99%) EDGE 850 BAND CH 190

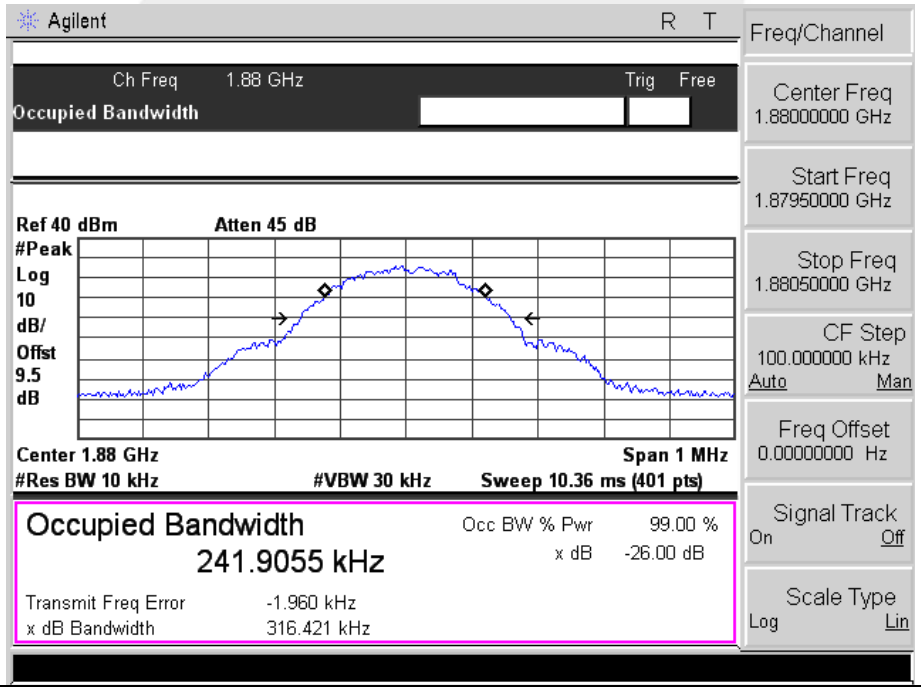


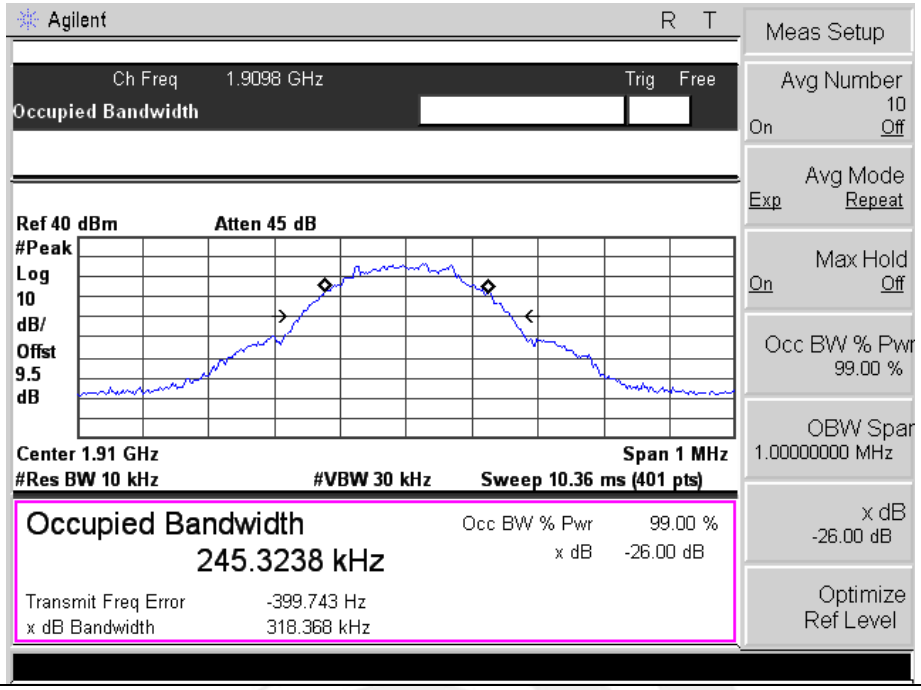
Occupied Bandwidth (99%) EDGE 850 BAND CH 251


Occupied Bandwidth (99%) PCS 1900 BAND CH 512

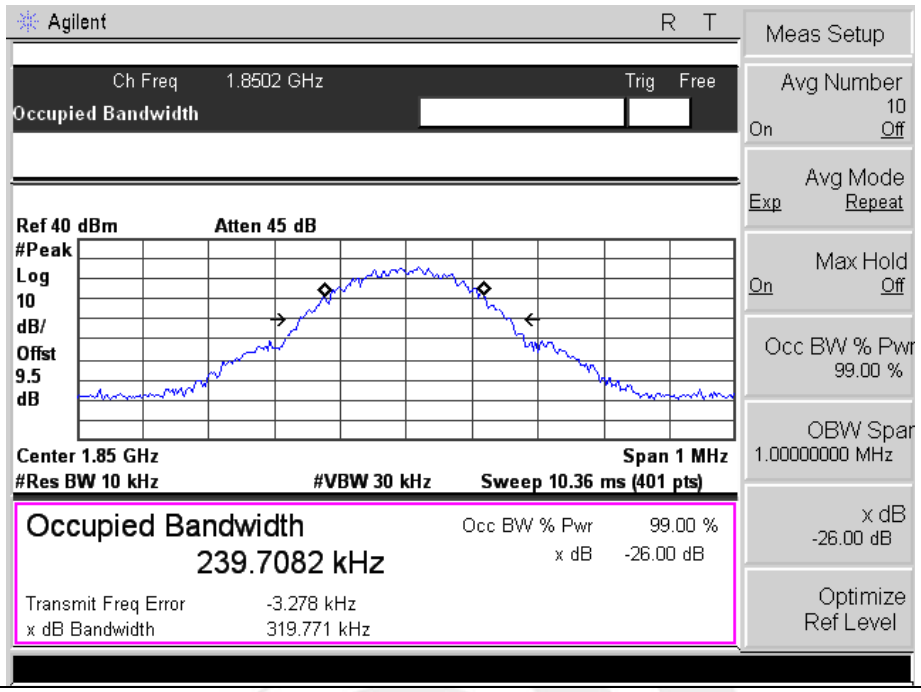


Occupied Bandwidth (99%) PCS 1900 BAND CH 661

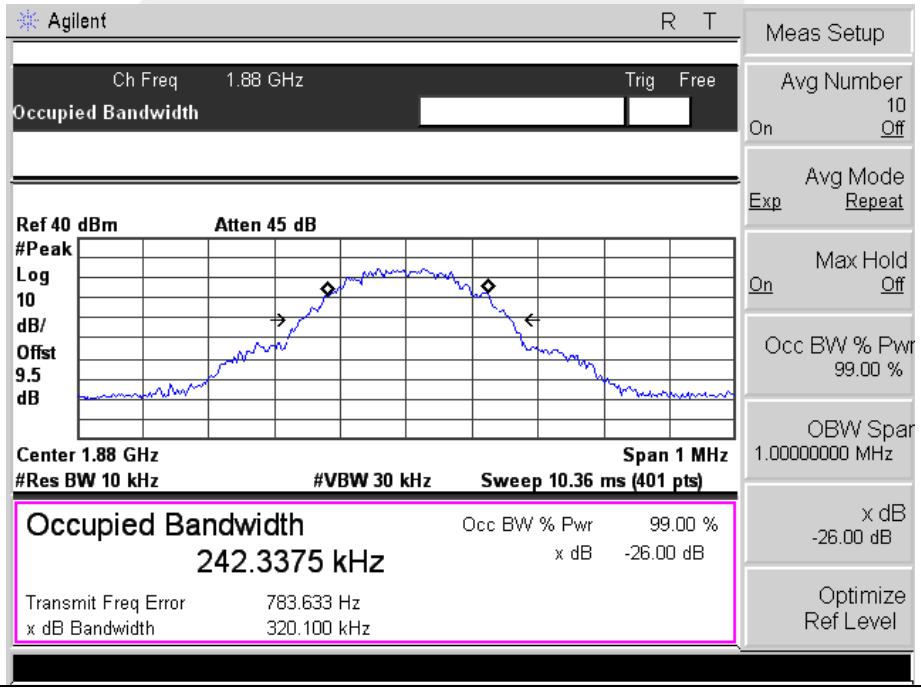


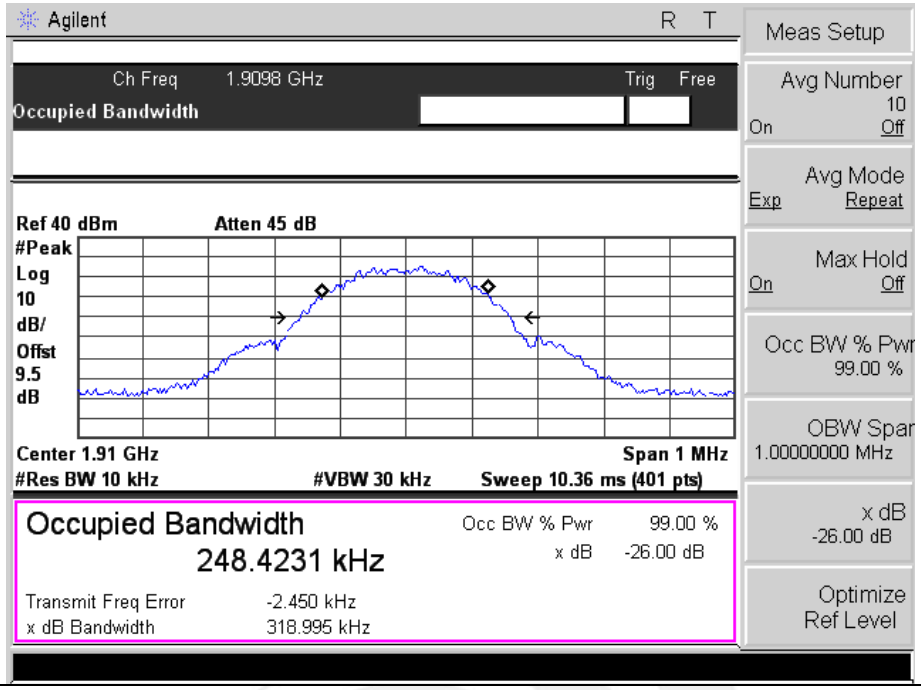
Occupied Bandwidth (99%) PCS 1900 BAND CH 810


Occupied Bandwidth (99%) GPRS 1900 BAND CH 512

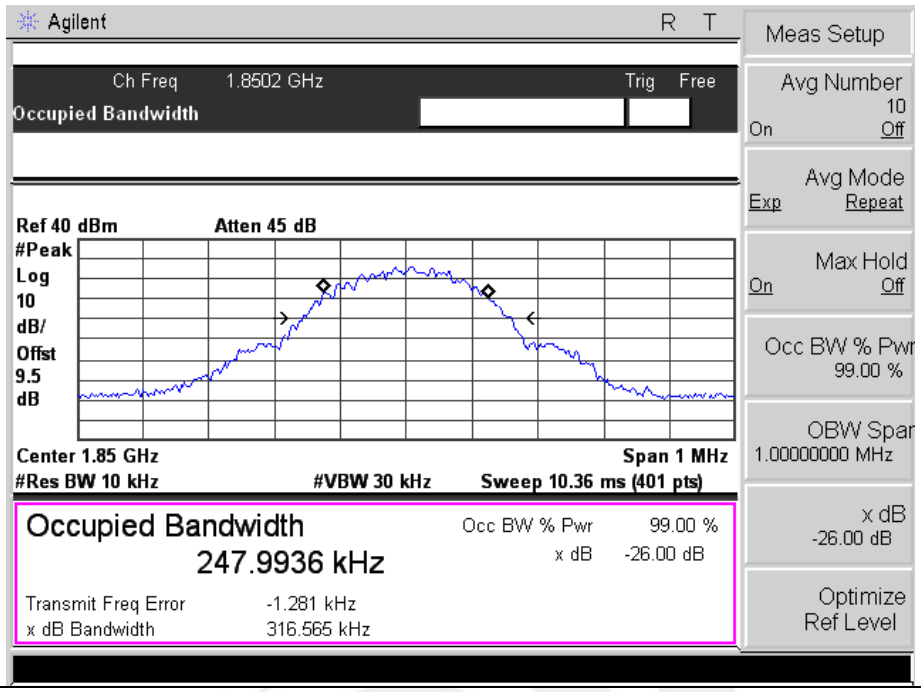


Occupied Bandwidth (99%) GPRS 1900 BAND CH 661

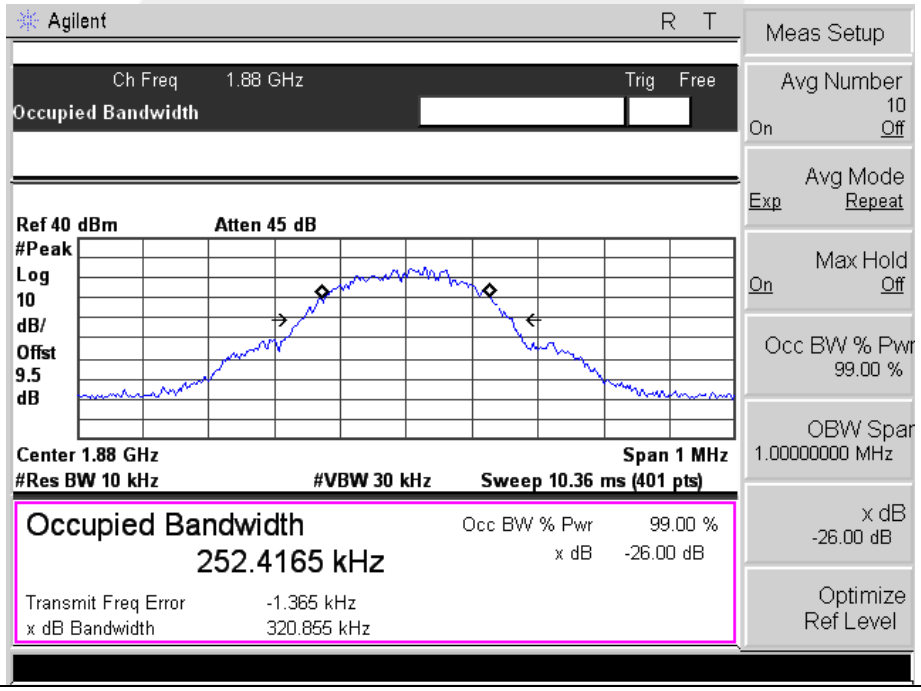


Occupied Bandwidth (99%) GPRS 1900 BAND CH 810


Occupied Bandwidth (99%) EDGE 1900 BAND CH 512



Occupied Bandwidth (99%) EDGE 1900 BAND CH 661



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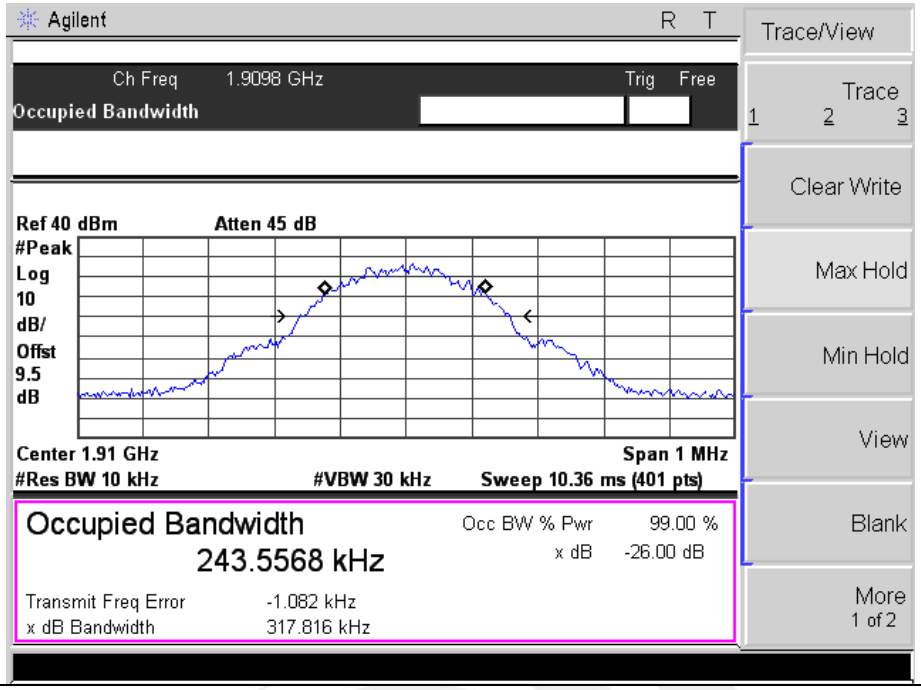
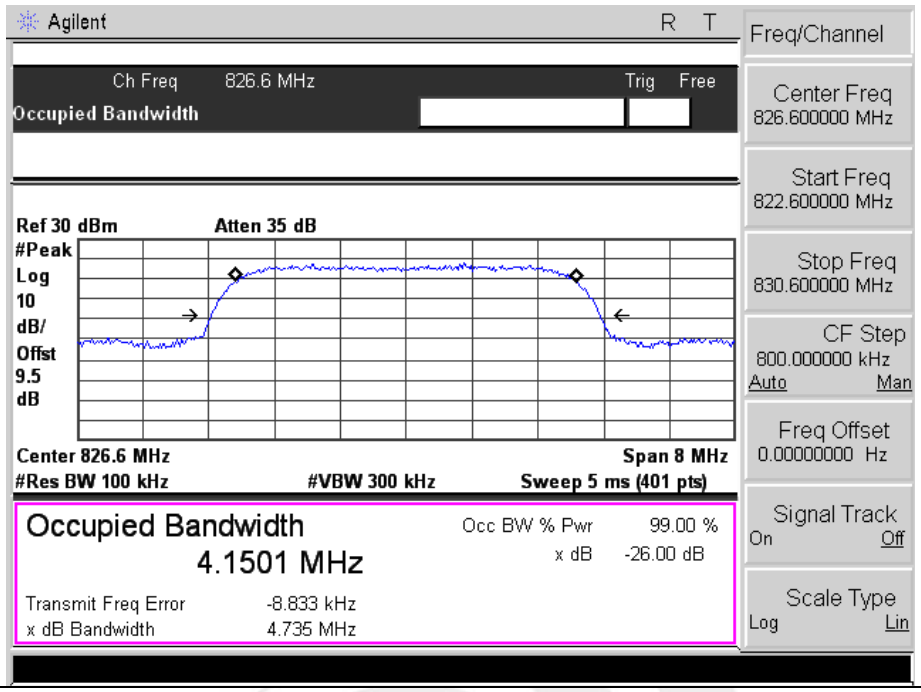
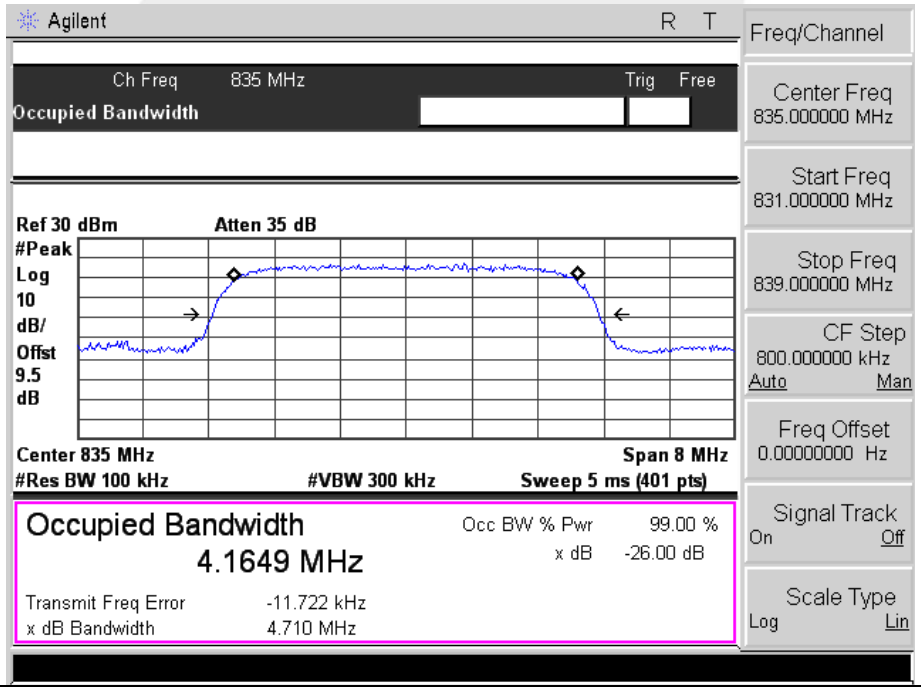
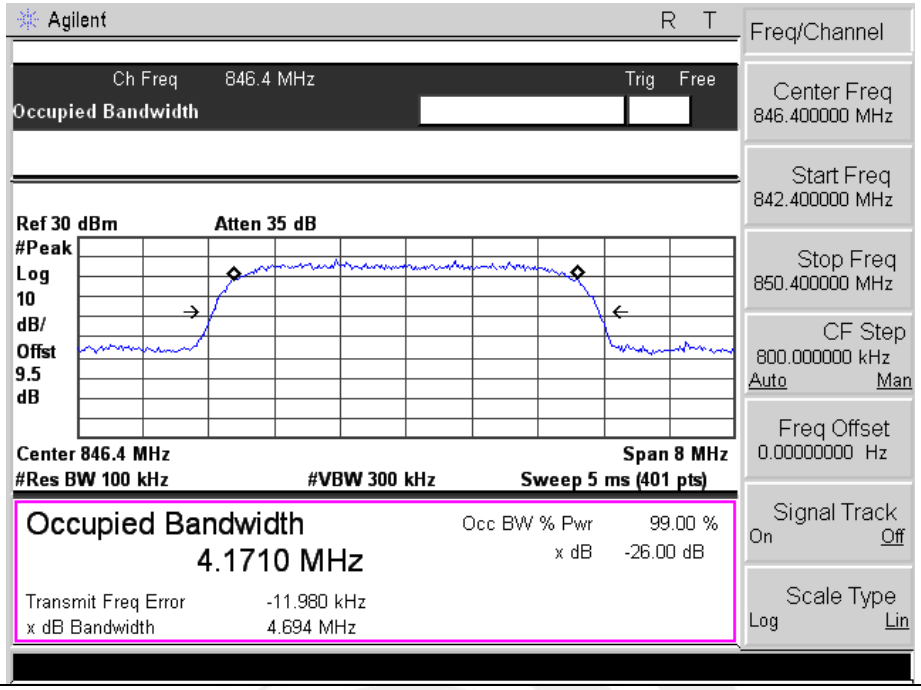


Occupied Bandwidth (99%) UMTS BAND V CH 4132

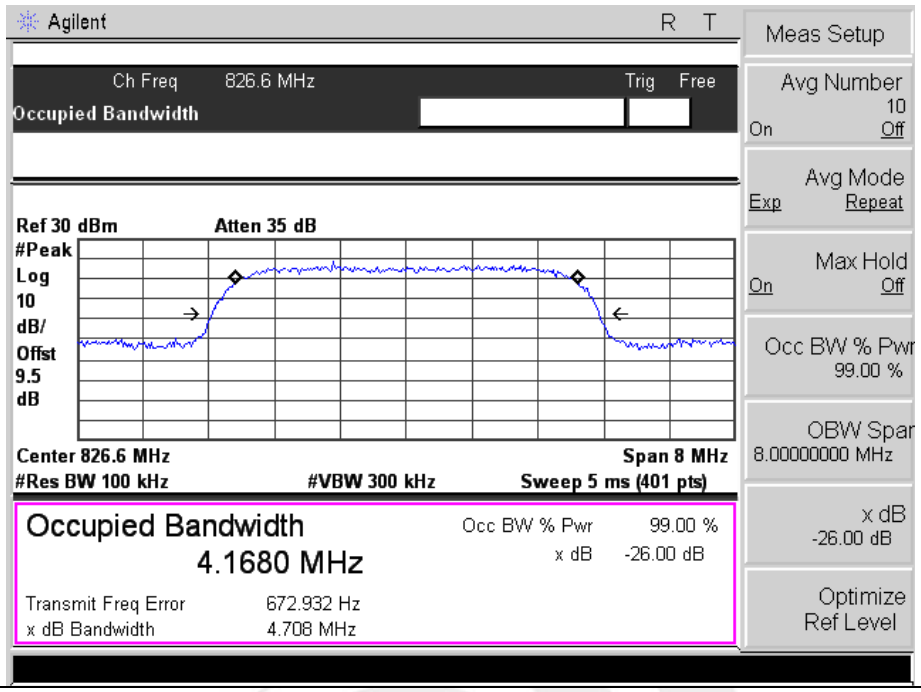


Occupied Bandwidth (99%) UMTS BAND V CH 4183

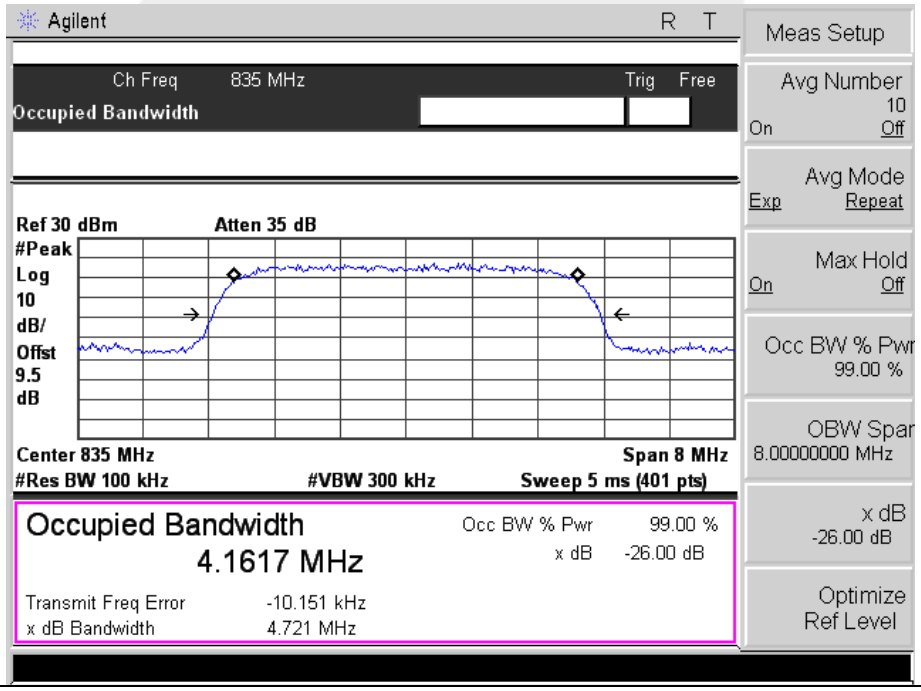


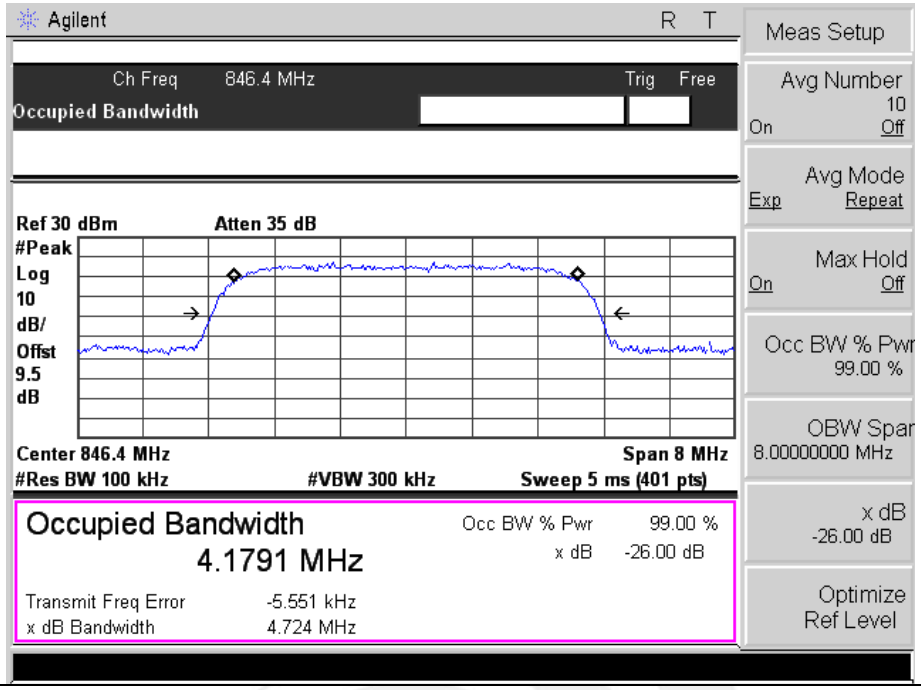
Occupied Bandwidth (99%) UMTS BAND V CH 4233


Occupied Bandwidth (99%) UMTS HSDPA BAND V CH 4132

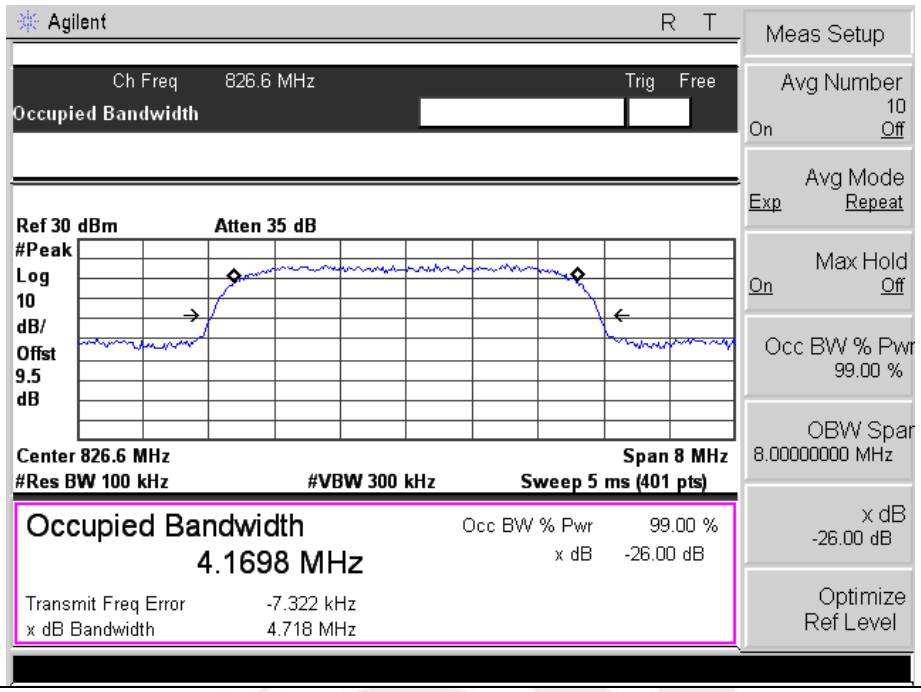


Occupied Bandwidth (99%) UMTS HSDPA BAND V CH 4183

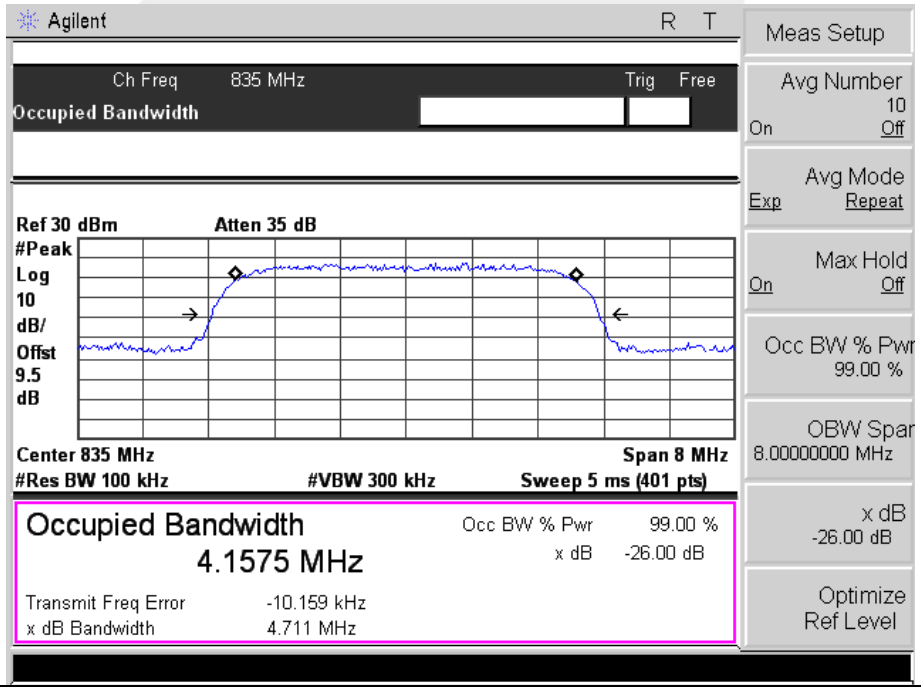


Occupied Bandwidth (99%) UMTS HSDPA BAND V CH 4233


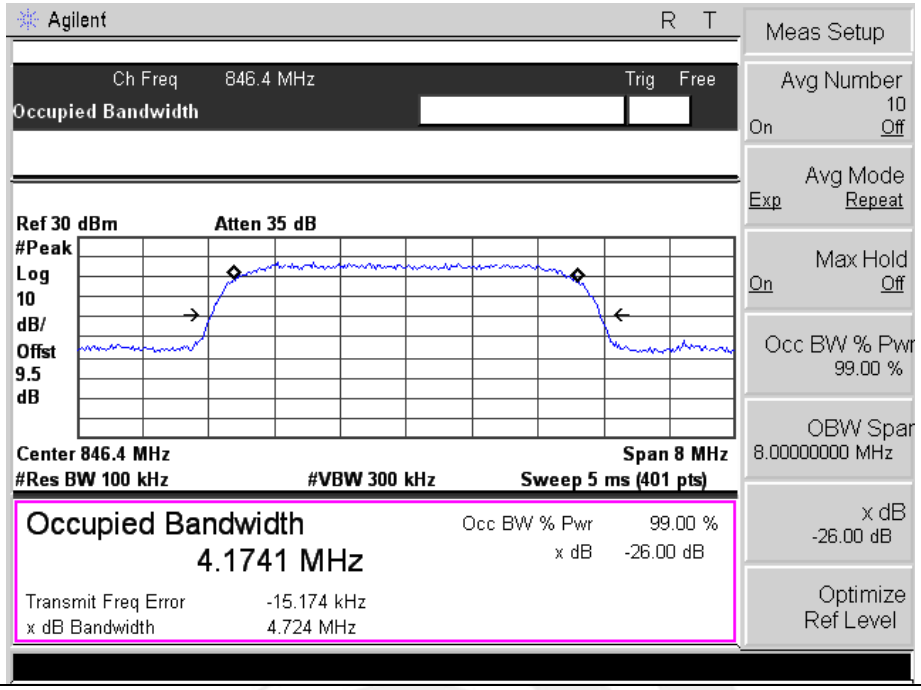
Occupied Bandwidth (99%) UMTS HSUPA BAND V CH 4132



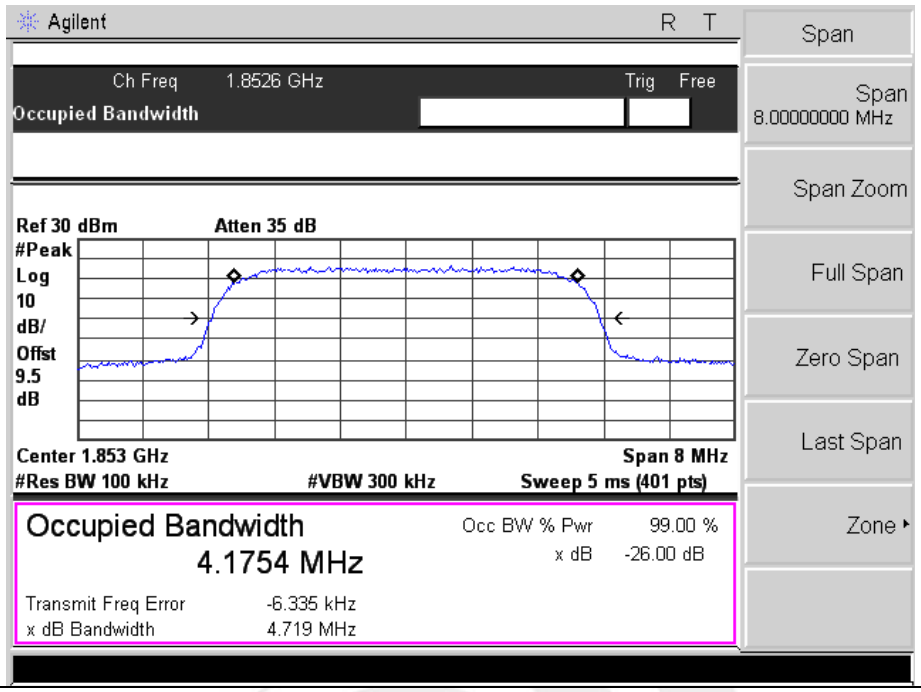
Occupied Bandwidth (99%) UMTS HSUPA BAND V CH 4183



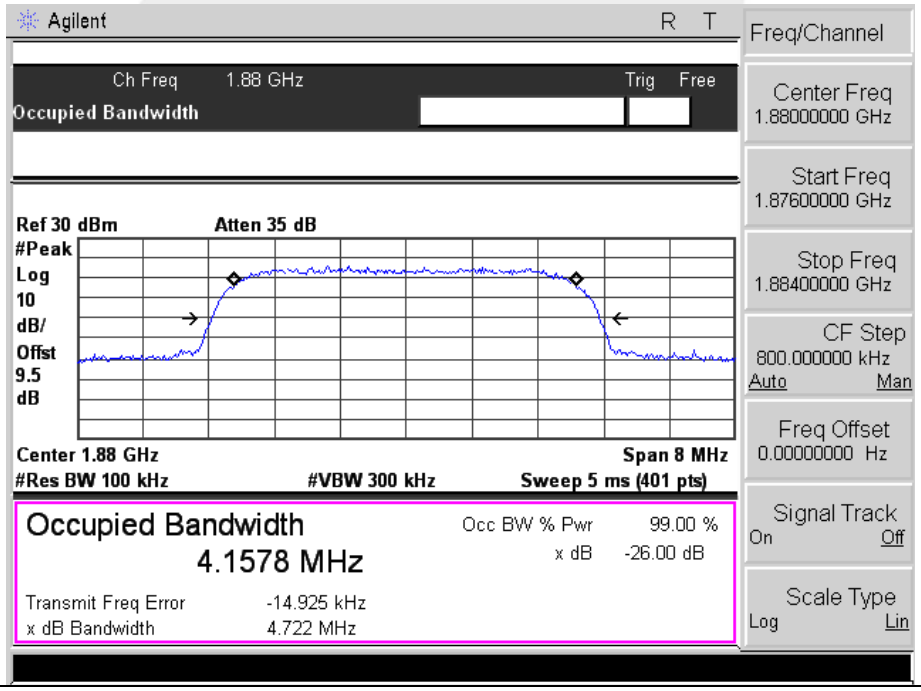
Occupied Bandwidth (99%) UMTS HSUPA BAND V CH 4233

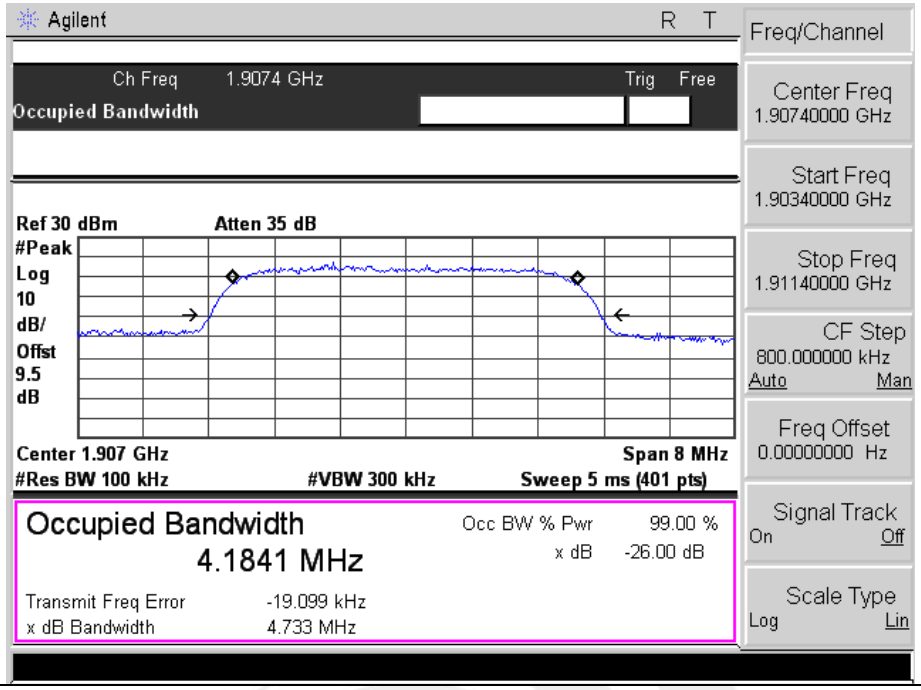


Occupied Bandwidth (99%) UMTS BAND II CH 9262

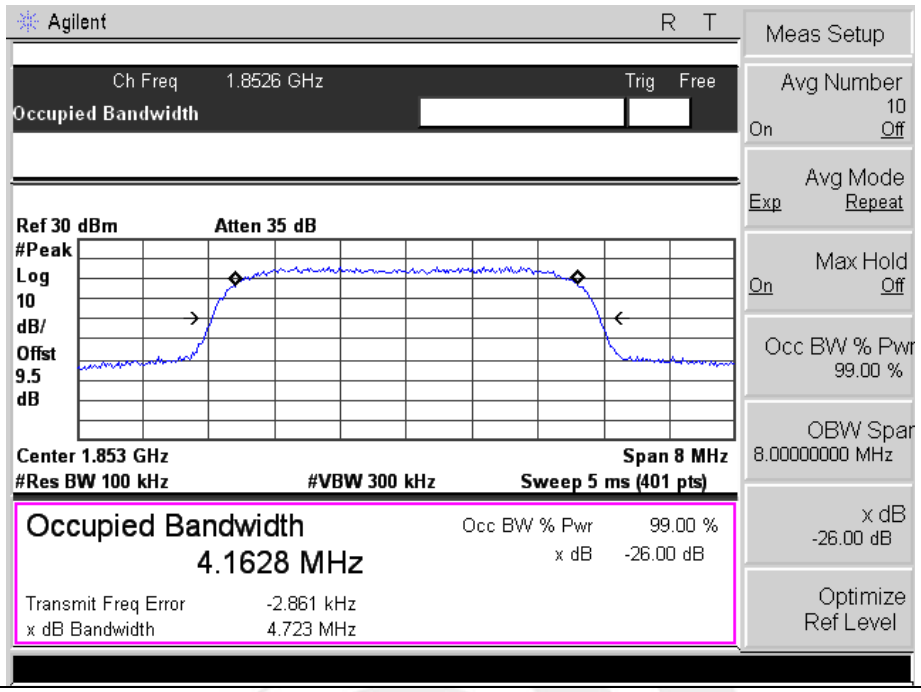


Occupied Bandwidth (99%) UMTS BAND II CH 9400

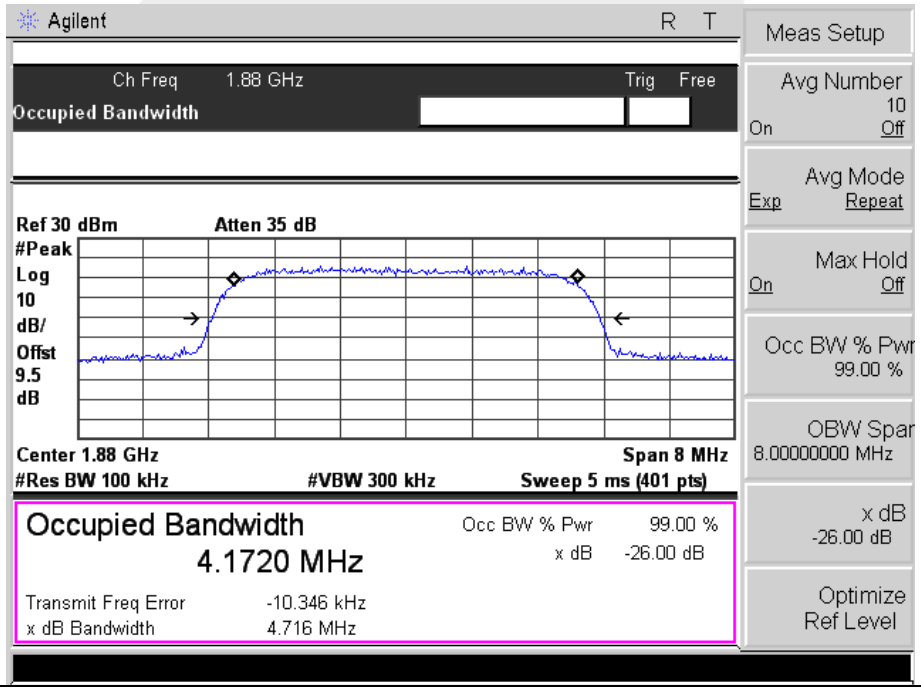


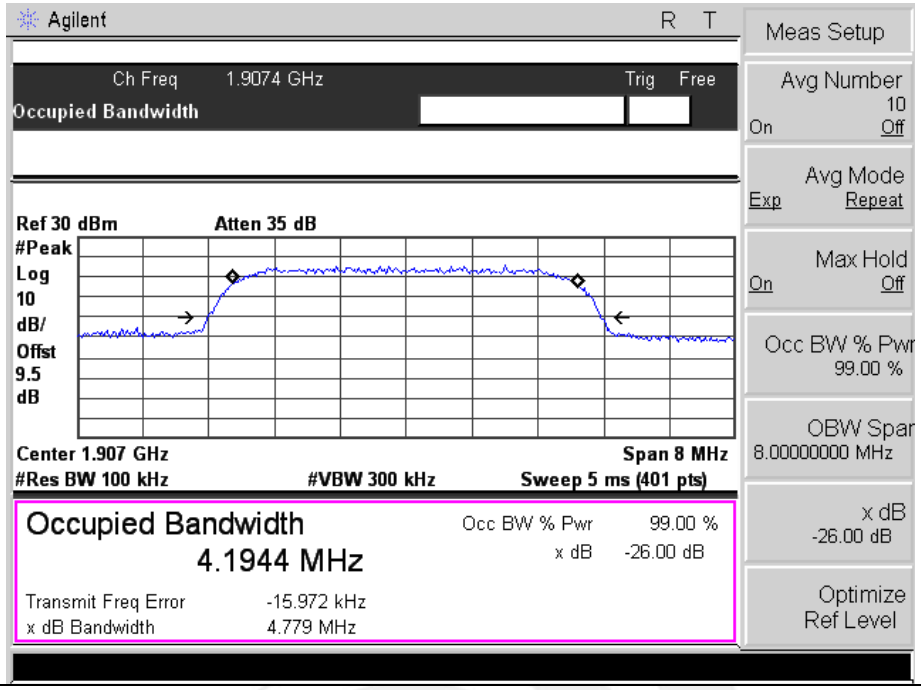
Occupied Bandwidth (99%) UMTS BAND II CH 9538


Occupied Bandwidth (99%) UMTS HSDPA BAND II CH 9262

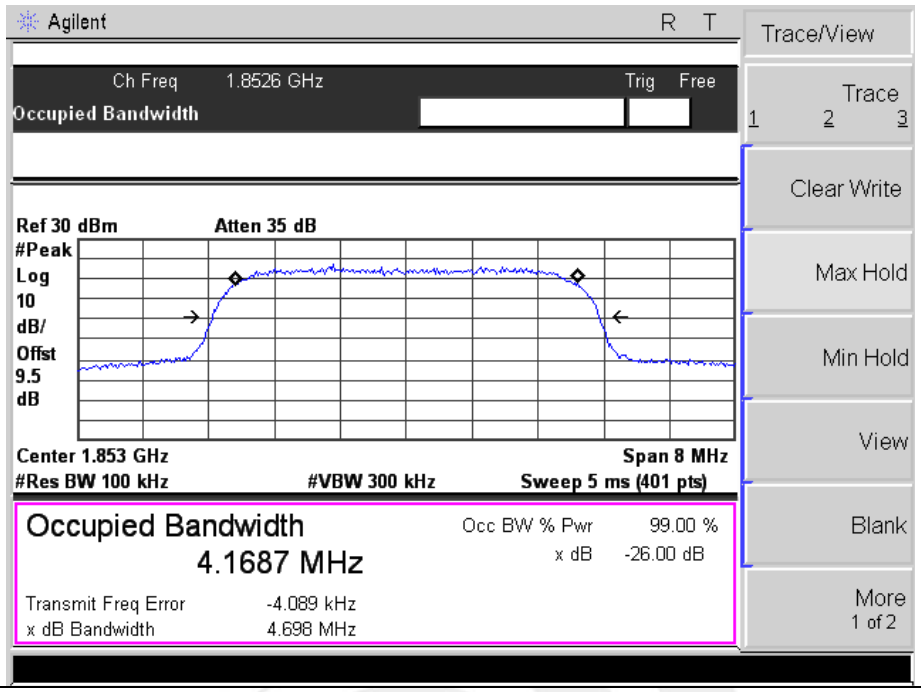


Occupied Bandwidth (99%) UMTS HSDPA BAND II CH 9400

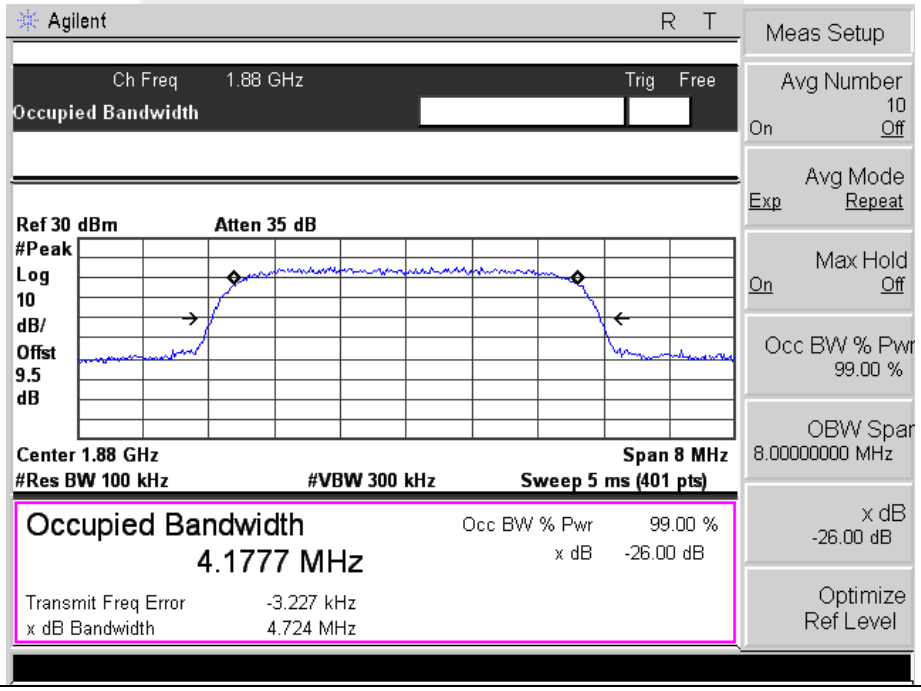


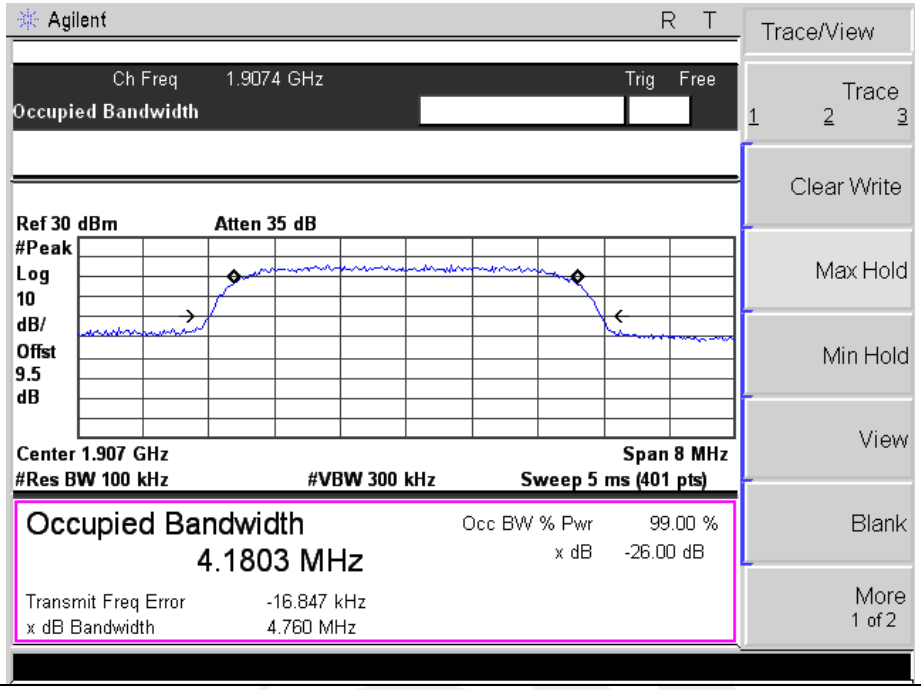
Occupied Bandwidth (99%) UMTS HSDPA BAND II CH 9538


Occupied Bandwidth (99%) UMTS HSUPA BAND II CH 9262



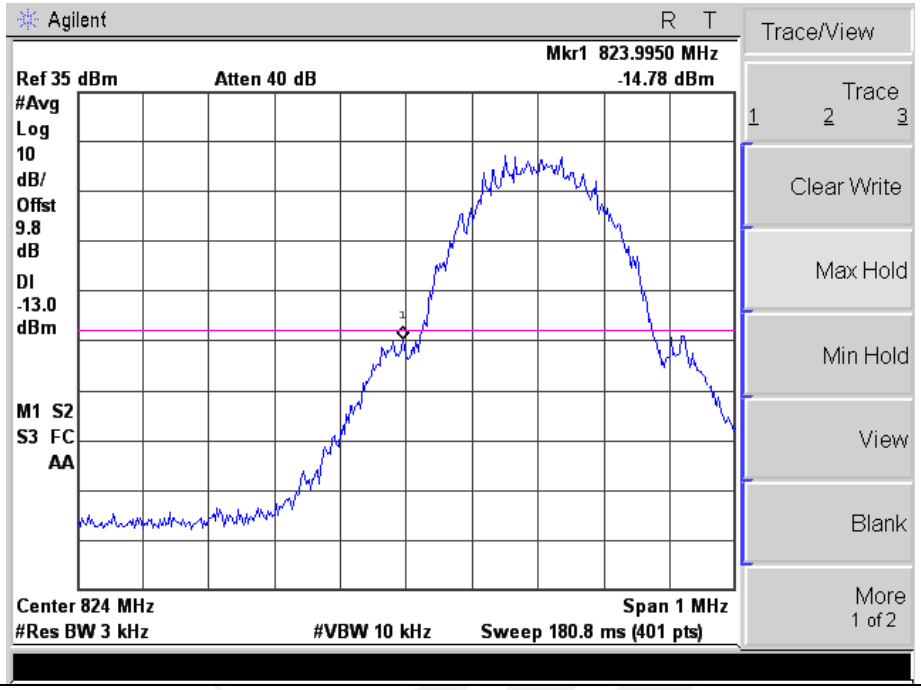
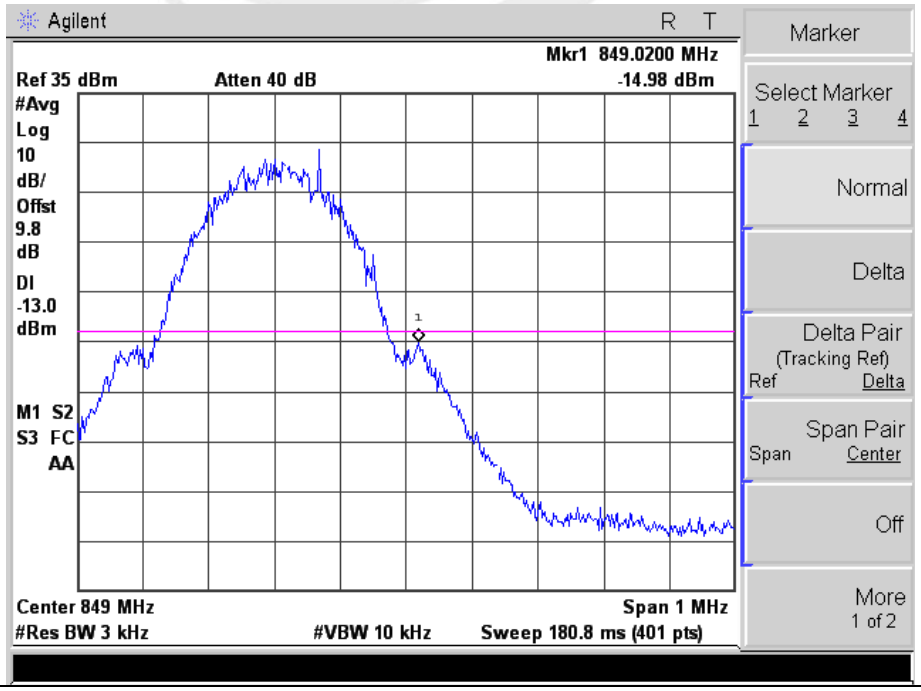
Occupied Bandwidth (99%) UMTS HSUPA BAND II CH 9400

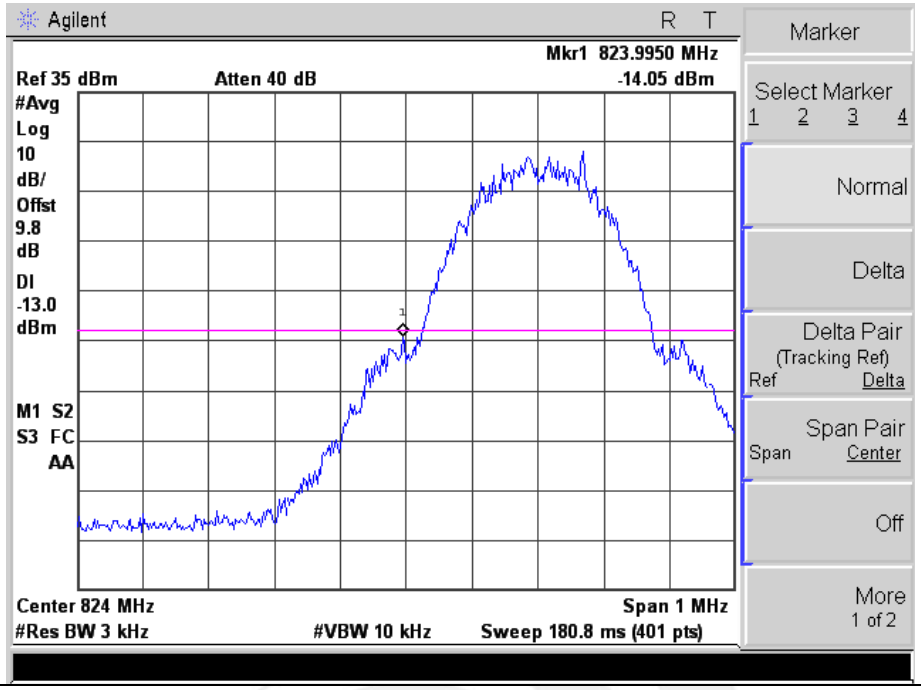
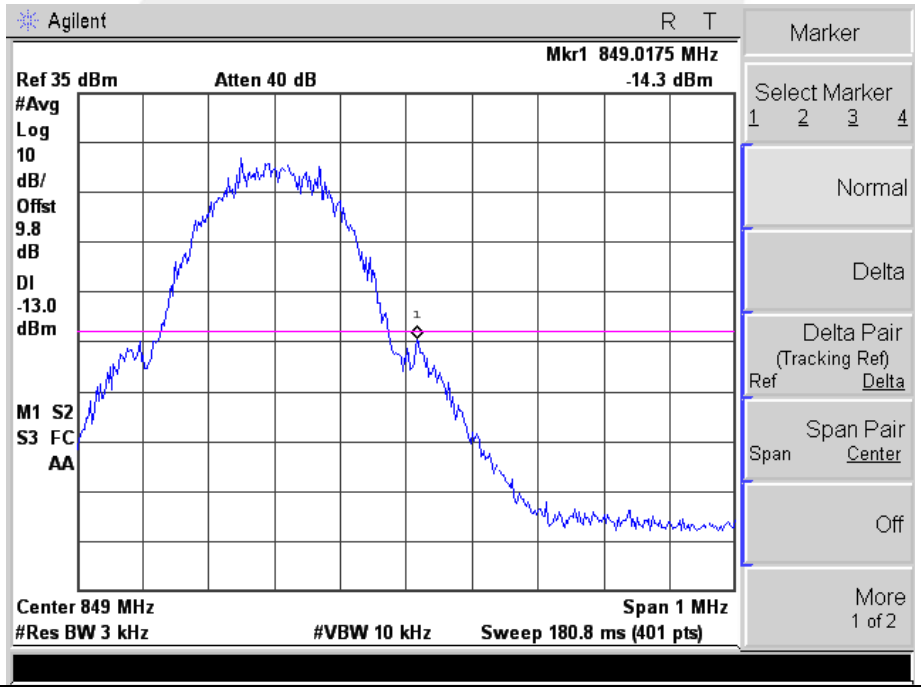


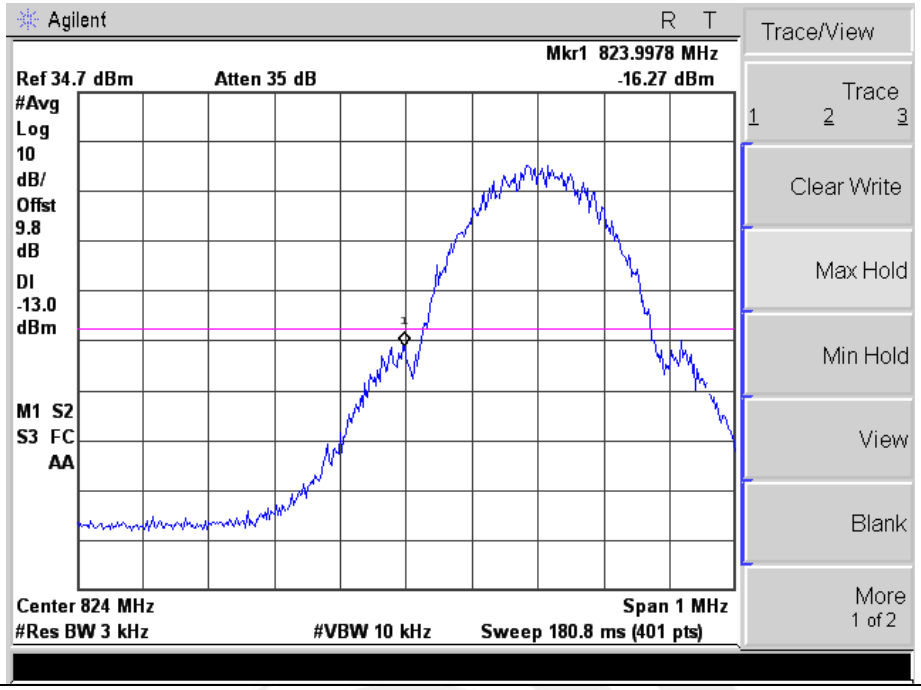
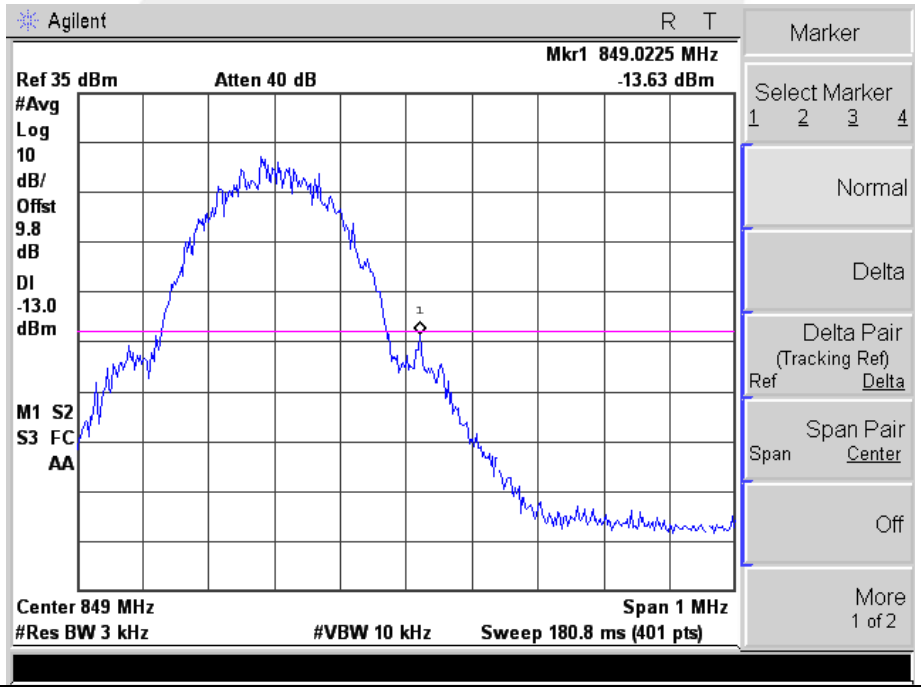
Occupied Bandwidth (99%) UMTS HSUPA BAND II CH 9538


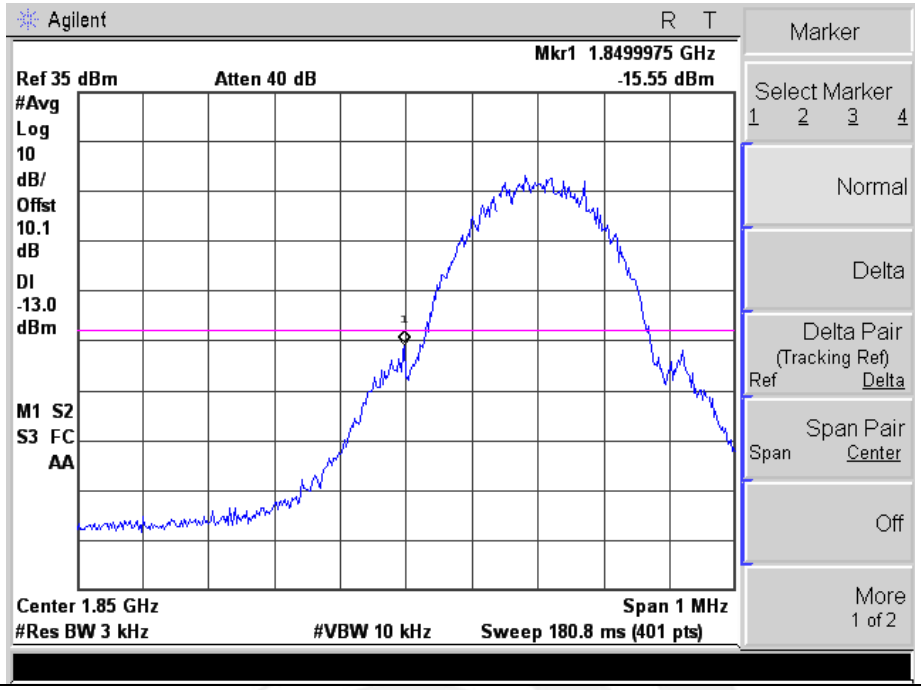
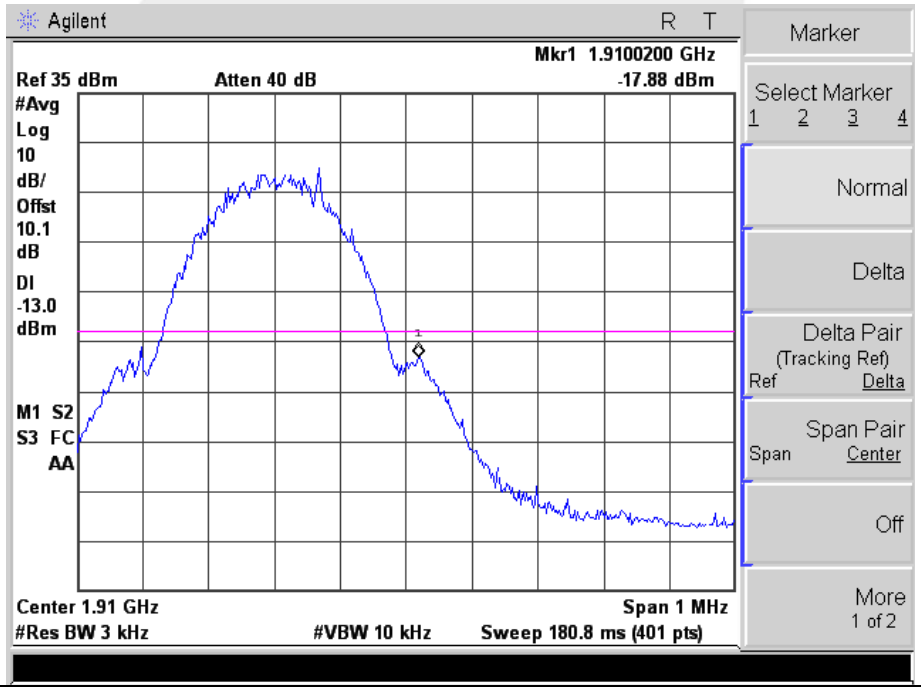
APPENDIX III

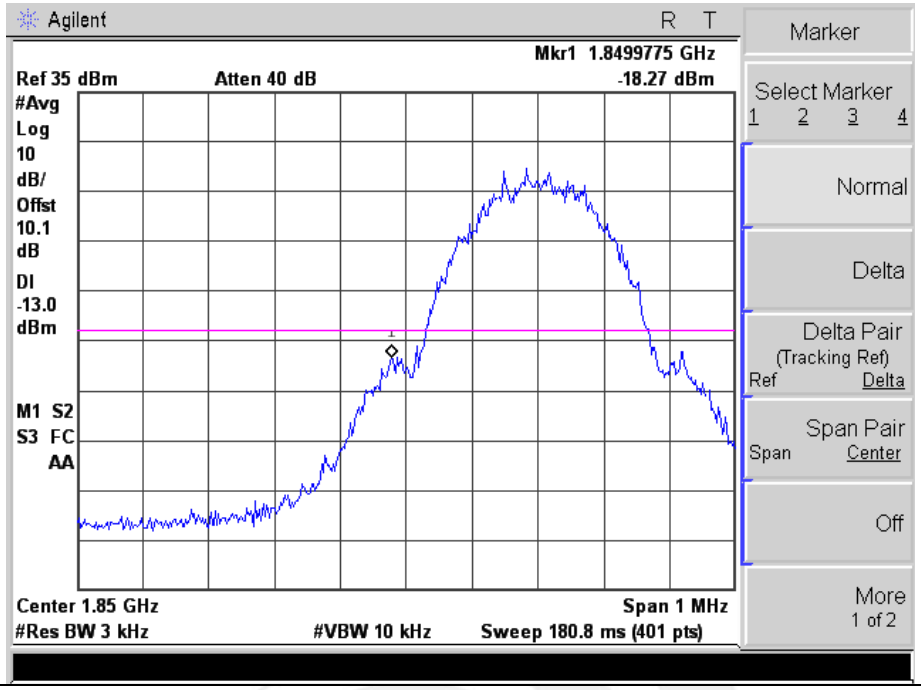
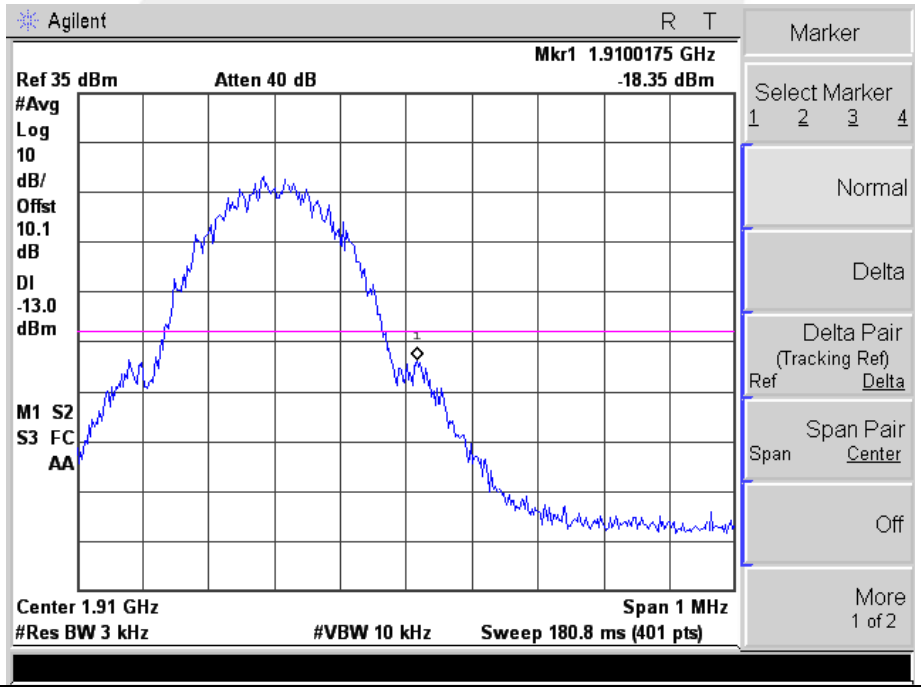
TEST PLOTS FOR BAND EDGES

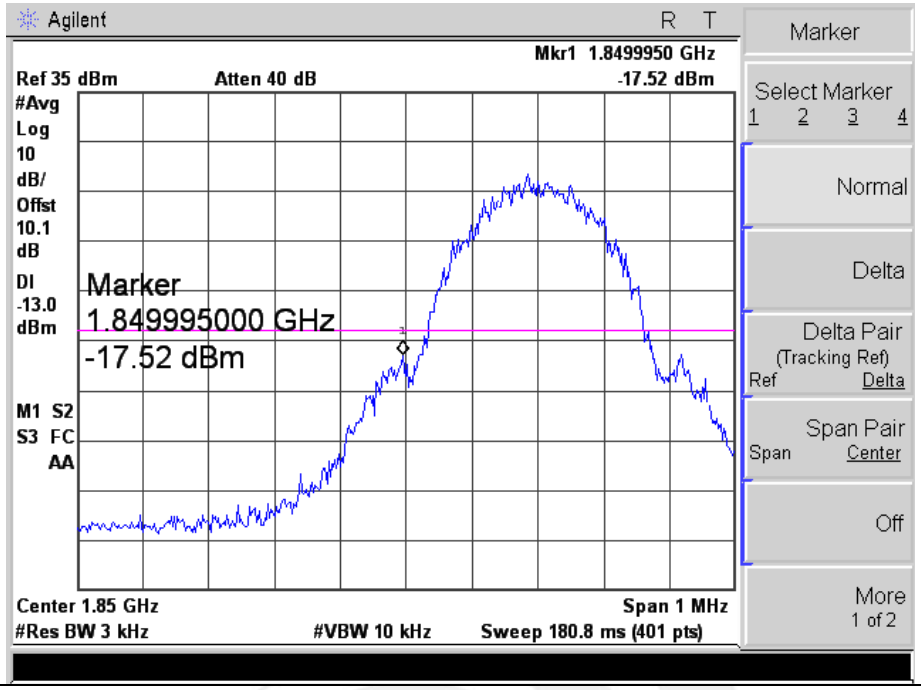
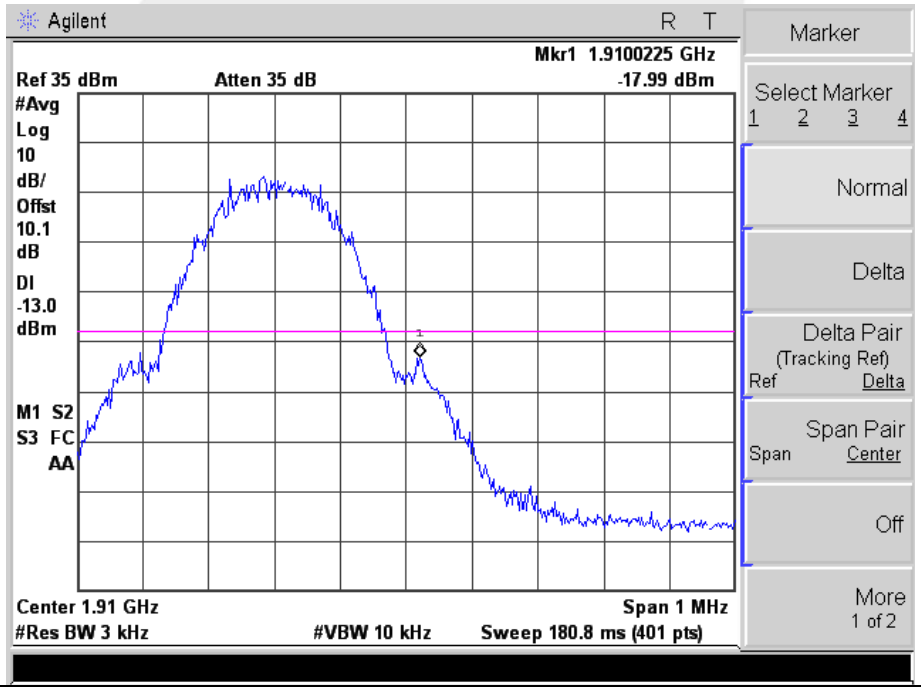
Low Band Edge GSM 850 BAND CH 128

Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB
High Band Edge GSM 850 BAND CH 251

Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB

Low Band Edge GPRS 850 BAND CH 128

Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB
High Band Edge GPRS 850 BAND CH 251

Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB

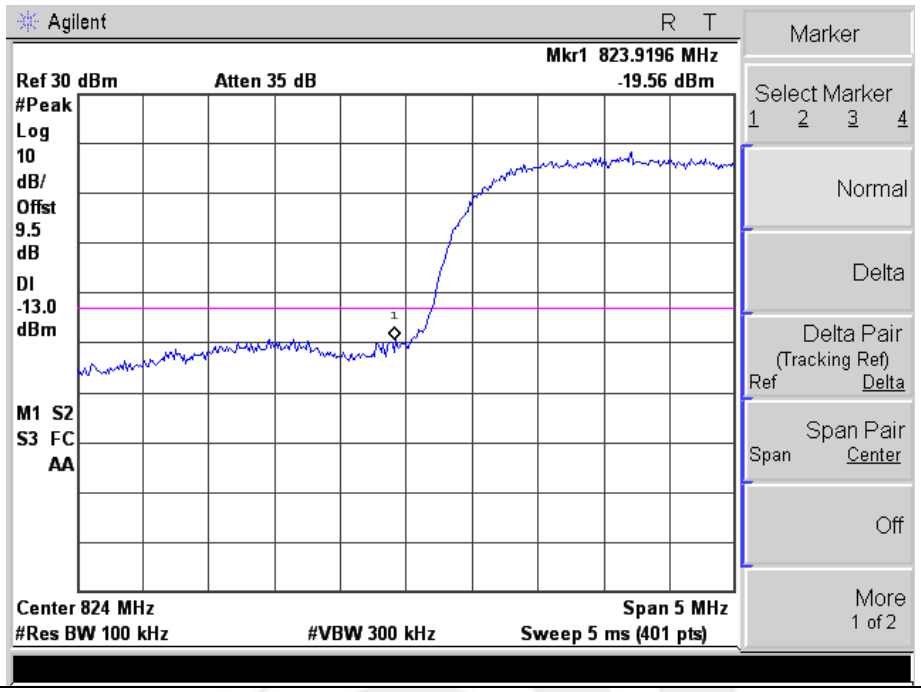
Low Band Edge EDGE 850 BAND CH 128

Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB
High Band Edge EDGE 850 BAND CH 251

Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB

Low Band Edge PCS 1900 BAND CH 512

Note:Offset=Cable loss(10.1)+10log(3.2/3)=10.1+0.3=10.4 dB
High Band Edge PCS 1900 BAND CH 810

Note:Offset=Cable loss(10.1)+10log(3.2/3)=10.1+0.3=10.4 dB

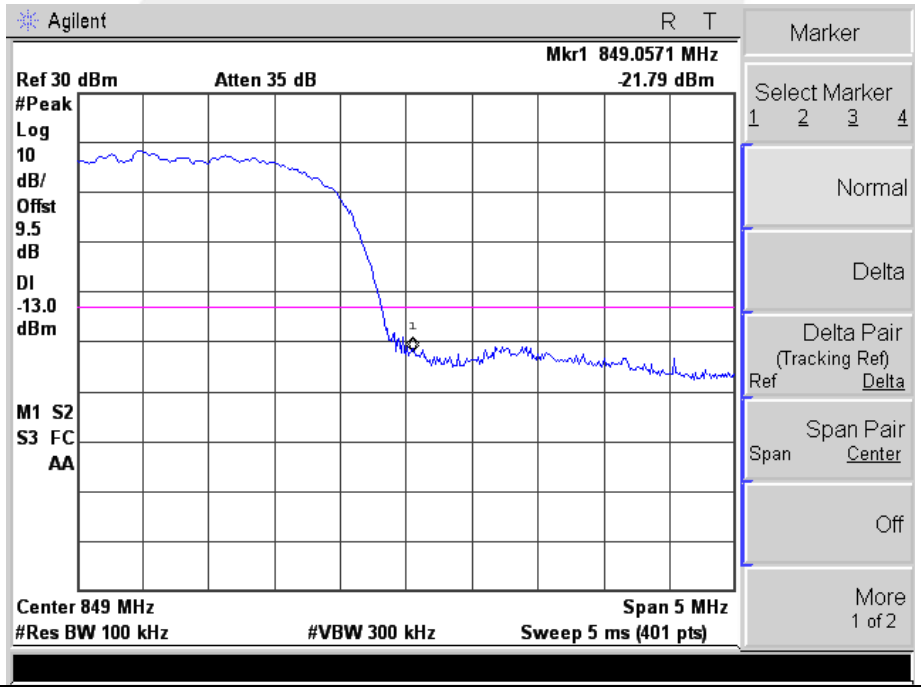
Low Band Edge GPRS 1900 BAND CH 512

Note:Offset=Cable loss(10.1)+10log(3.2/3)=10.1+0.3=10.4 dB
High Band Edge GPRS 1900 BAND CH 810

Note:Offset=Cable loss(10.1)+10log(3.2/3)=10.1+0.3=10.4 dB

Low Band Edge EDGE 1900 BAND CH 512

Note:Offset=Cable loss(10.1)+10log(3.2/3)=10.1+0.3=10.4 dB
High Band Edge EDGE 1900 BAND CH 810

Note:Offset=Cable loss(10.1)+10log(3.2/3)=10.1+0.3=10.4 dB

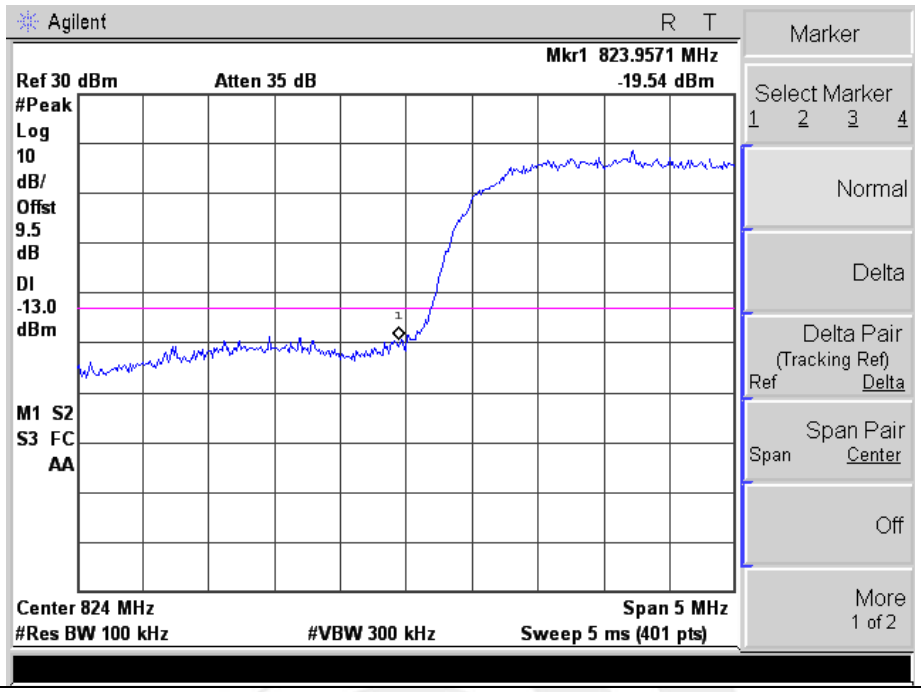
Low Band Edge UMTS BAND V CH 4132



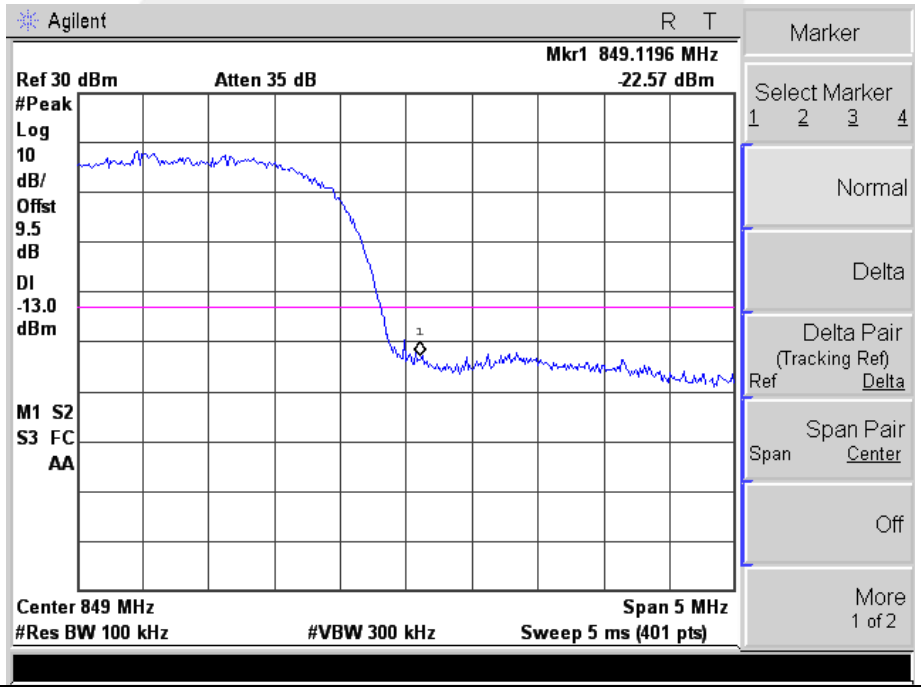
High Band Edge UMTS BAND V CH 4233



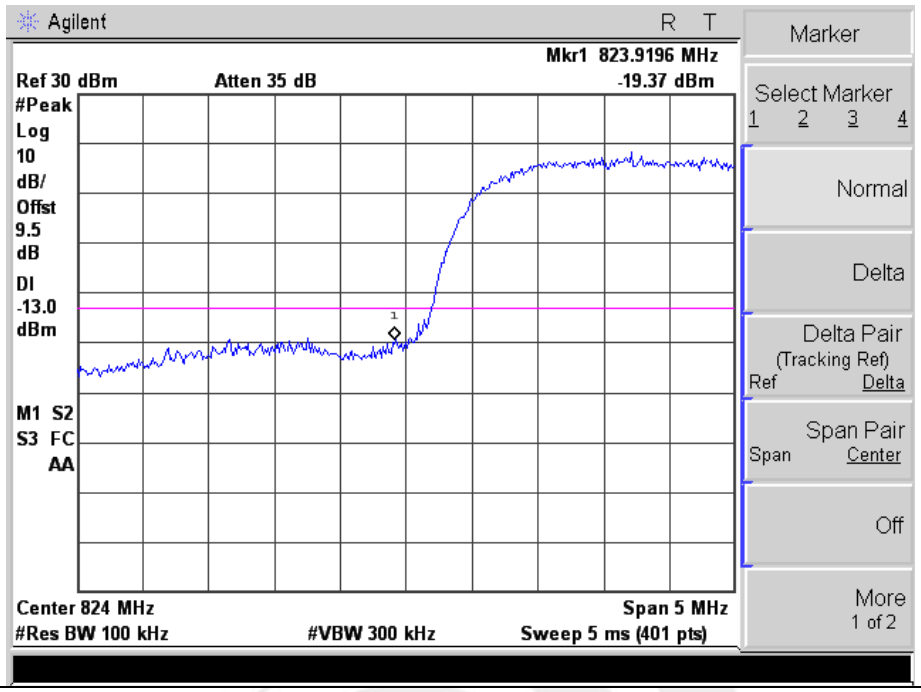
Low Band Edge HSDPA BAND V CH 4132



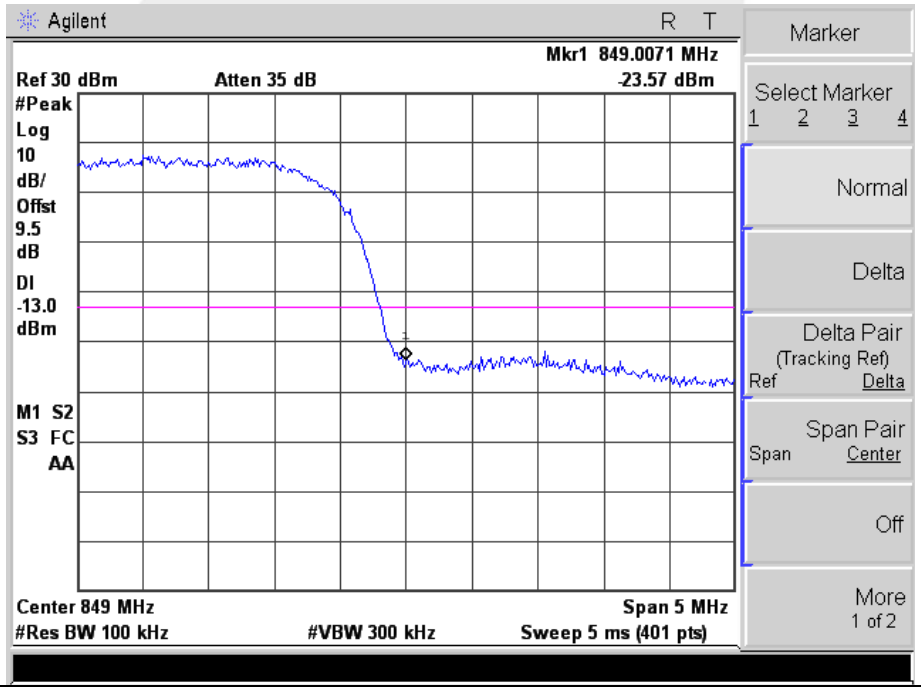
High Band Edge HSDPA BAND V CH 4233



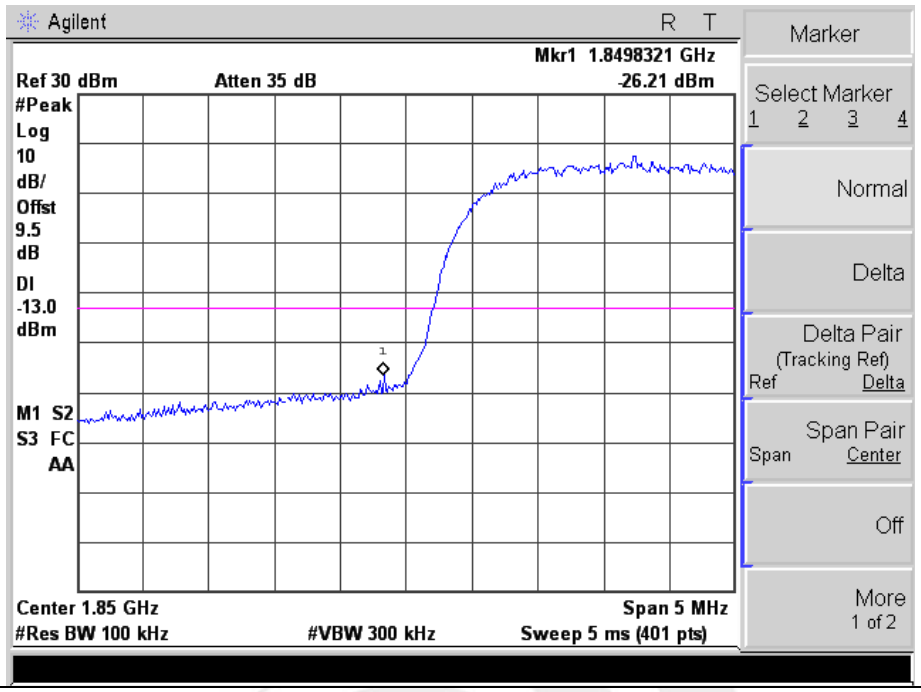
Low Band Edge HSUPA BAND V CH 4132



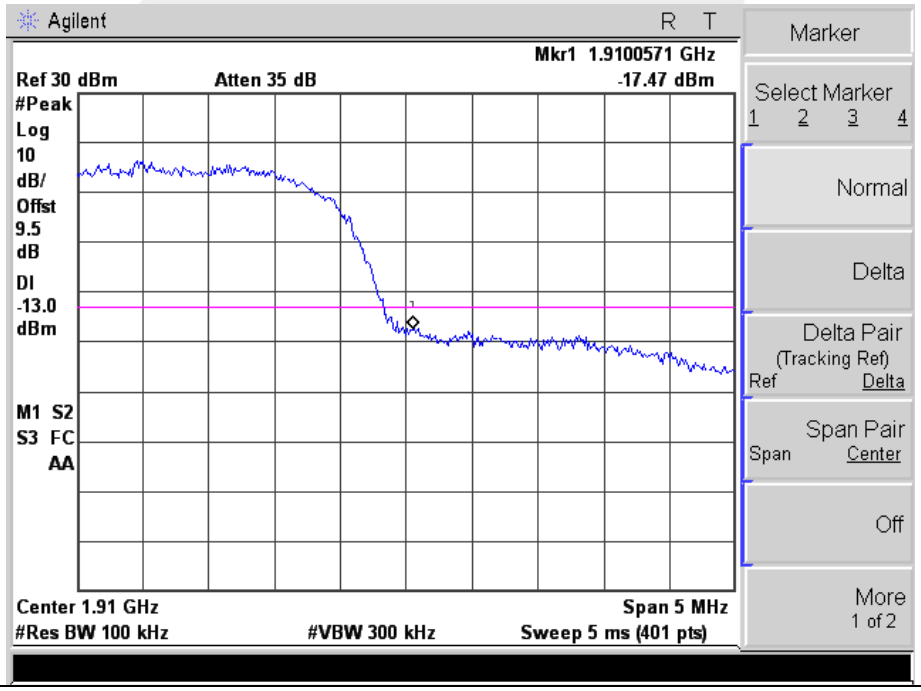
High Band Edge HSUPA BAND V CH 4233



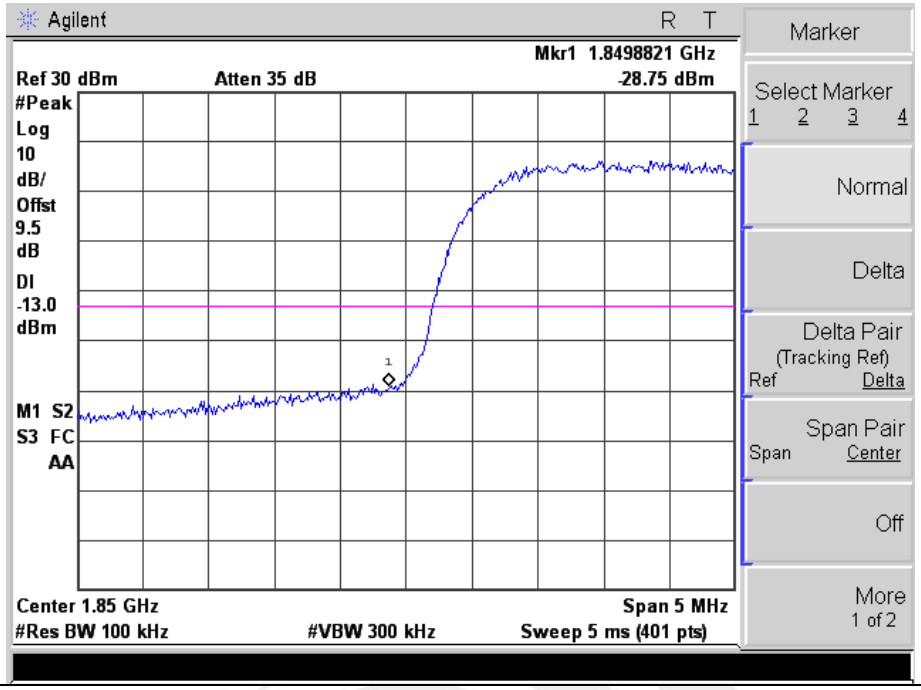
Low Band Edge UMTS BAND II CH 9262



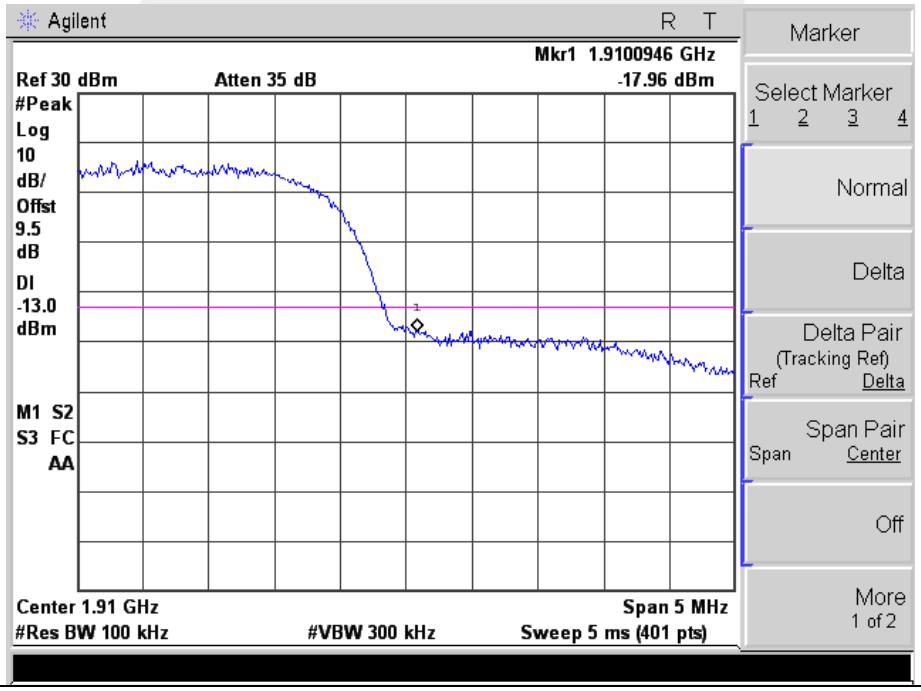
High Band Edge UMTS BAND II CH 9538



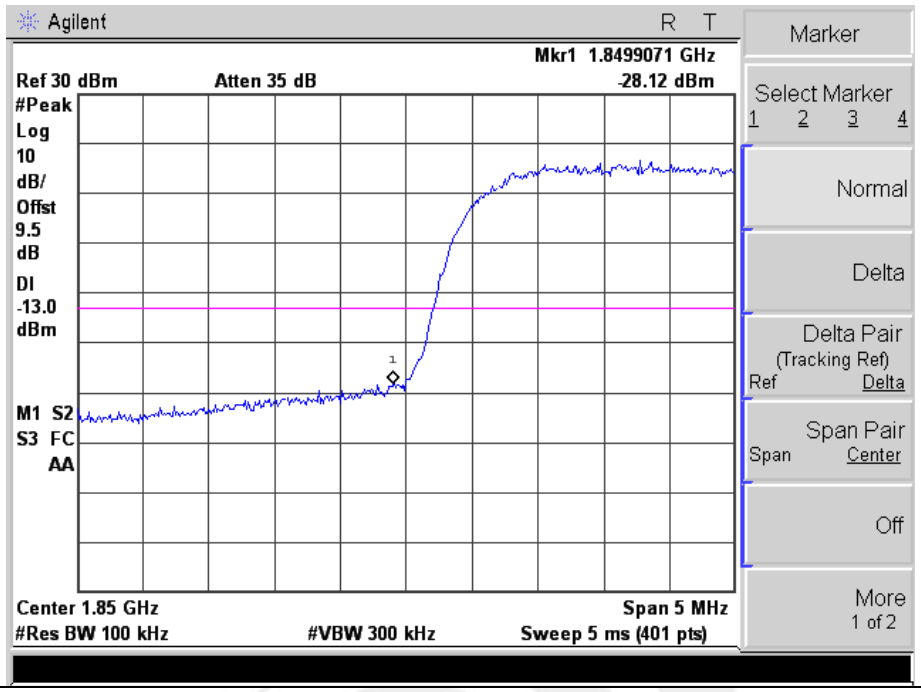
Low Band Edge HSDPA BAND II CH 9262



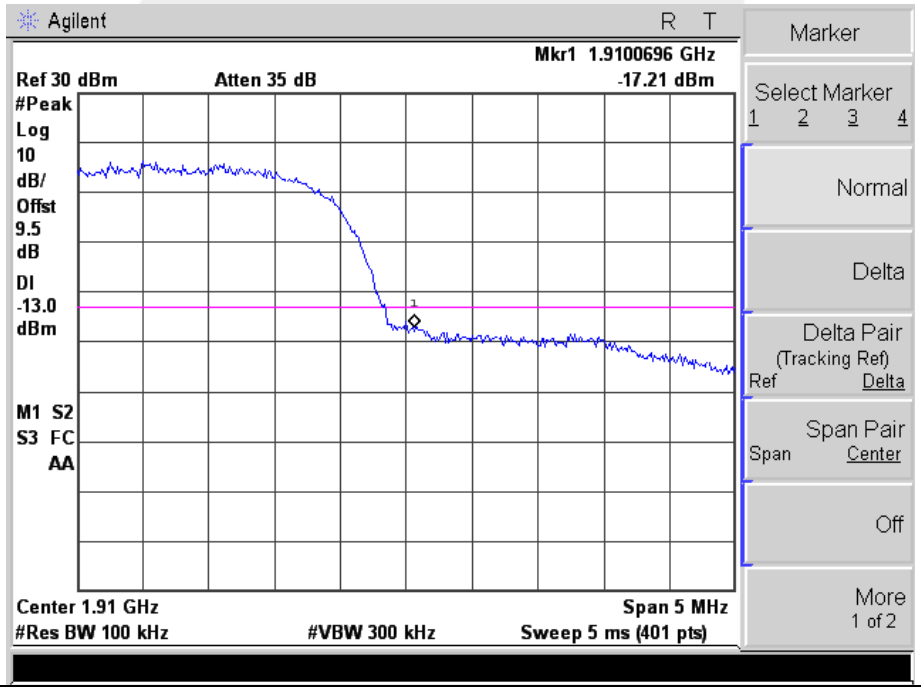
Low Band Edge HSDPA BAND II CH 9538



Low Band Edge HSUPA BAND II CH 9262



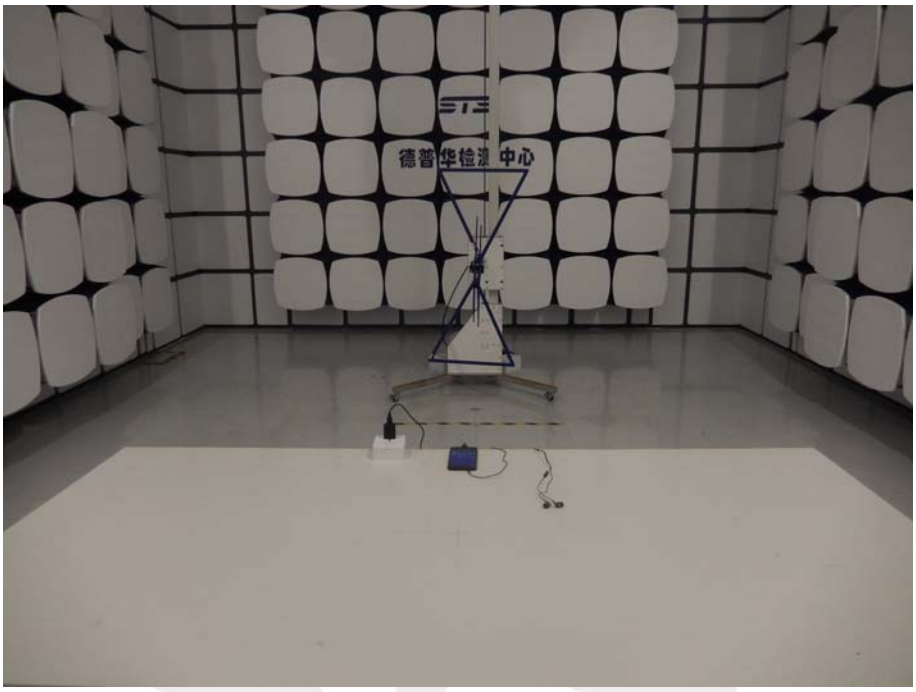
High Band Edge HSUPA BAND II CH 9538

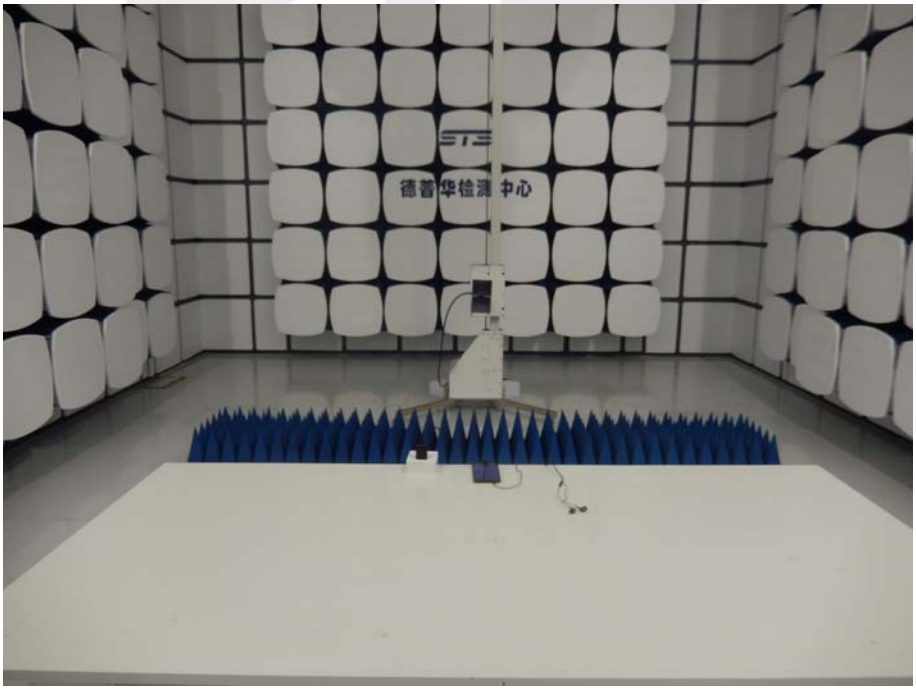


APPENDIX IV

PHOTOS OF TEST SETUP

RADIATED SPURIOUS EMISSION





----END OF REPORT----