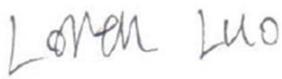
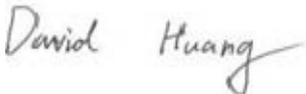


RF TEST REPORT



Report No.: 1607343-FCC-R1

Supersede Report No.: N/A

Applicant	BLU Products, Inc.	
Product Name	smartphone	
Model No.	ADVANCE 4.0 L3	
Serial No.	N/A	
Test Standard	FCC Part 22(H):2015 ;FCC Part 24(E):2015; FCC Part 27:2015; ANSI/TIA-603-D: 2010	
Test Date	Dec 3 to Dec 30, 2016	
Issue Date	Dec 30 , 2016	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
		
Loren Luo Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
1607343-FCC-R1	NONE	Original	Dec 30 , 2016

2. Customer information

Applicant Name	BLU Products, Inc.
Applicant Add	10814 NW 33rd St # 100 Doral, FL 33172
Manufacturer	BLU Products, Inc.
Manufacturer Add	10814 NW 33rd St # 100 Doral, FL 33172

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT:	smartphone
Main Model:	ADVANCE 4.0 L3
Serial Model:	N/A
Date EUT received:	Dec 2, 2016
Test Date(s):	Dec 3 to Dec 30, 2016
Equipment Category :	PCE
Antenna Gain:	GSM850: -0.5dBi PCS1900:0.5dBi UMTS-FDD Band V: -0.5dBi UMTS-FDD Band IV: 0.5dBi UMTS-FDD Band II: 0.5dBi WIFI: 1.6dBi Bluetooth:1.6dBi GPS: 0.5dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK GPS:BPSK

ERP/EIRP:

GSM Voice:GSM850: 30.21 dBm / ERP
 PCS1900: 30.56 dBm / EIRP

GPRS:GSM850: 30.19dBm / ERP
 PCS1900: 30.58 dBm / EIRP

EGPRS(MCS5):GSM850: 23.34dBm / ERP
 PCS1900: 26.59 dBm / EIRP

RMC:UMTS-FDD Band V: 20.23dBm / ERP
 UMTS-FDD Band II:23.26 dBm / EIRP
 UMTS-FDD Band IV: 23.26dBm / EIRP

HSUPA:UMTS-FDD Band V: 15.56dBm / ERP
 UMTS-FDD Band II: 22.48dBm / EIRP
 UMTS-FDD Band IV:22.11 dBm / EIRP

HSDPA:UMTS-FDD Band V: 19.54dBm / ERP
 UMTS-FDD Band II:22.51 dBm / EIRP
 UMTS-FDD Band IV: 22.04 dBm / EIRP

Number of Channels:

GSM 850: 124CH
 PCS1900: 299CH
 UMTS-FDD Band V: 102CH
 UMTS-FDD Band IV: 202CH
 UMTS-FDD Band II: 277CH
 WIFI :802.11b/g/n(20M): 11CH
 Bluetooth: 79CH
 GPS:1CH

Port: USB Port, Earphone Port

Input Power:

Adapter:
 Model: US-BM-0700
 Input: AC100-240V, 50/60Hz,0.12A
 Output: DC 5.0V-0.7A

Battery:
 Model: C535143130T
 Voltage: 3.7V
 Battery Capacity: 1300mAh , 4.81Wh
 Charging limit voltage: 4.35V

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Trade Name : BLU

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: YHLBLUAD4L3

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance
§2.1046; § 22.913(a); § 24.232(c); § 27.50(c.10) ; § 27.50(d.4)	RF Output Power	Compliance
§ 24.232 (d) ; § 27.50(d)	Peak-Average Ratio	Compliance
§ 2.1049; § 22.905; § 22.917; § 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth	Compliance
§ 2.1051; § 22.917(a); § 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917(a); § 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance
§ 22.917(a); § 24.238(a); § 27.53(h)	Out of band emission, Band Edge	Compliance
§ 2.1055; § 22.355; § 24.235; § 27.5(h); § 27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

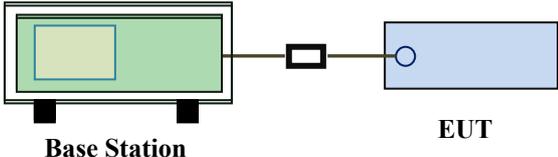
Please refer to RF Exposure Evaluation Report: 16071343-FCC-H.

6.2 RF Output Power

Temperature	25 °C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	Dec 08, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.913 (a)	a)	ERP:38.45dBm	<input checked="" type="checkbox"/>
§24.232 (c)	b)	EIRP:33dBm	<input checked="" type="checkbox"/>
§27.50 (c)	c)	EIRP: 30dBm	<input checked="" type="checkbox"/>

Test Setup	 <p>The diagram illustrates the test setup. On the left, a green rectangular box labeled 'Base Station' is shown. A line connects it to a small black square, which is connected to a blue rectangular box labeled 'EUT' (Equipment Under Test).</p>
------------	--

Test Procedure	<p>For Conducted Power:</p> <ul style="list-style-type: none"> - The transmitter output port was connected to base station. - Set EUT at maximum power through base station. - Select lowest, middle, and highest channels for each band and different test mode. <p>For ERP/EIRP:</p> <p>According with KDB 971168 v02r02</p> <ul style="list-style-type: none"> - The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. - The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. - The frequency range up to tenth harmonic of the fundamental
----------------	---

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	<p>frequency was investigated.</p> <ul style="list-style-type: none"> - Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. - Spurious emissions in dB = 10 log (TX power in Watts/0.001) – the absolute level - Spurious attenuation limit in dB = 43 + 10 Log10 (power out in Watts).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Conducted Power

GSM Mode:

Burst Average Power (dBm);								
Band	GSM850				PCS1900			
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	/
GSM Voice (1 uplink),GMSK	32.89	32.57	32.35	32±1	29.98	30.09	30.10	30±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.87	32.57	32.34	32±1	29.97	30.06	30.08	30±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	30.77	30.60	30.39	30±1	27.93	27.91	27.85	27±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	27.00	26.88	26.64	26.5±1	24.03	24.14	24.11	24±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	32.87	32.55	32.35	32±1	29.94	30.05	29.98	30±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	30.78	30.59	30.35	30±1	27.83	27.88	27.77	27±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	26.94	26.81	26.62	26.5±1	24.02	24.06	24.02	24±1
EGPRS Multi-Slot Class 8 (1 uplink) 8PSK MCS5	25.68	25.90	25.93	25±1	25.92	26.09	26.07	25.5±1
EGPRS Multi-Slot Class 10 (2 uplink) 8PSK MCS5	25.48	25.71	25.69	25±1	25.62	25.73	25.74	25±1
EGPRS Multi-Slot Class 12 (4 uplink) 8PSK MCS5	21.96	21.91	22.21	22±1	20.97	21.34	21.32	21±1
Remark : GPRS, CS1 coding scheme.								

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EGPRS, MCS1 coding scheme.

EGPRS, MCS5 coding scheme.

Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link

Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link

Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link

UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	4132	826.4	22.91	23±1
	4175	835	22.84	23±1
	4233	846.6	22.92	23±1
HSDPA Subtest1	4132	826.4	22.13	22±1
	4175	835	22.15	22±1
	4233	846.6	22.09	22±1
HSDPA Subtest2	4132	826.4	22.15	22±1
	4175	835	22.16	22±1
	4233	846.6	22.18	22±1
HSDPA Subtest3	4132	826.4	22.06	22±1
	4175	835	22.11	22±1
	4233	846.6	22.03	22±1
HSDPA Subtest4	4132	826.4	22.09	22±1
	4175	835	22.16	22±1
	4233	846.6	22.13	22±1
HSUPA Subtest1	4132	826.4	22.01	22±1
	4175	835	22.04	22±1
	4233	846.6	22.00	22±1
HSUPA Subtest2	4132	826.4	22.17	22±1
	4175	835	22.09	22±1
	4233	846.6	22.13	22±1
HSUPA Subtest3	4132	826.4	22.12	22±1
	4175	835	22.14	22±1
	4233	846.6	22.16	22±1
HSUPA Subtest4	4132	826.4	22.16	22±1
	4175	835	22.10	22±1
	4233	846.6	22.09	22±1
HSUPA Subtest5	4132	826.4	22.12	22±1
	4175	835	22.15	22±1
	4233	846.6	22.07	22±1

UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	9262	1852.4	22.84	23±1
	9400	1880	22.79	23±1
	9538	1907.6	22.90	23±1
HSDPA Subtest1	9262	1852.4	22.03	22±1
	9400	1880	22.08	22±1
	9538	1907.6	22.04	22±1
HSDPA Subtest2	9262	1852.4	21.94	22±1
	9400	1880	21.93	22±1
	9538	1907.6	21.91	22±1
HSDPA Subtest3	9262	1852.4	21.96	22±1
	9400	1880	21.92	22±1
	9538	1907.6	21.94	22±1
HSDPA Subtest4	9262	1852.4	22.05	22±1
	9400	1880	22.03	22±1
	9538	1907.6	21.99	22±1
HSUPA Subtest1	9262	1852.4	21.89	22±1
	9400	1880	21.81	22±1
	9538	1907.6	21.86	22±1
HSUPA Subtest2	9262	1852.4	22.01	22±1
	9400	1880	22.05	22±1
	9538	1907.6	22.08	22±1
HSUPA Subtest3	9262	1852.4	21.92	22±1
	9400	1880	21.93	22±1
	9538	1907.6	21.90	22±1
HSUPA Subtest4	9262	1852.4	22.05	22±1
	9400	1880	22.10	22±1
	9538	1907.6	22.09	22±1
HSUPA Subtest5	9262	1852.4	21.90	22±1
	9400	1880	21.93	22±1
	9538	1907.6	21.95	22±1

UMTS-FDD Band IV

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	1313	1712.6	22.33	22±1
	1413	1732.6	22.25	22±1
	1512	1752.4	22.15	22±1
HSDPA Subtest1	1313	1712.6	21.53	21.3±1
	1413	1732.6	21.51	21.3±1
	1512	1752.4	21.57	21.3±1
HSDPA Subtest2	1313	1712.6	21.55	21.3±1
	1413	1732.6	21.57	21.3±1
	1512	1752.4	21.60	21.3±1
HSDPA Subtest3	1313	1712.6	21.55	21.3±1
	1413	1732.6	21.58	21.3±1
	1512	1752.4	21.54	21.3±1
HSDPA Subtest4	1313	1712.6	21.57	21.3±1
	1413	1732.6	21.51	21.3±1
	1512	1752.4	21.54	21.3±1
HSUPA Subtest1	1313	1712.6	21.56	21.3±1
	1413	1732.6	21.53	21.3±1
	1512	1752.4	21.6	21.3±1
HSUPA Subtest2	1313	1712.6	21.57	21.3±1
	1413	1732.6	21.50	21.3±1
	1512	1752.4	21.49	21.3±1
HSUPA Subtest3	1313	1712.6	21.53	21.3±1
	1413	1732.6	21.56	21.3±1
	1512	1752.4	21.55	21.3±1
HSUPA Subtest4	1313	1712.6	21.55	21.3±1
	1413	1732.6	21.58	21.3±1
	1512	1752.4	21.60	21.3±1
HSUPA Subtest5	1313	1712.6	21.57	21.3±1
	1413	1732.6	21.54	21.3±1
	1512	1752.4	21.53	21.3±1

ERP & EIRP

GSM Voice

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	23.94	V	6.8	0.53	30.21	38.45
824.2	22.26	H	6.8	0.53	28.53	38.45
836.6	23.63	V	6.8	0.53	29.90	38.45
836.6	22.04	H	6.8	0.53	28.31	38.45
848.8	23.36	V	6.9	0.53	29.73	38.45
848.8	21.68	H	6.9	0.53	28.05	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	23.45	V	7.88	0.85	30.48	33
1850.2	21.74	H	7.88	0.85	28.77	33
1880	23.53	V	7.88	0.85	30.56	33
1880	21.86	H	7.88	0.85	28.89	33
1909.8	23.54	V	7.86	0.85	30.55	33
1909.8	21.87	H	7.86	0.85	28.88	33

GPRS:

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	23.92	V	6.8	0.53	30.19	38.45
824.2	22.24	H	6.8	0.53	28.51	38.45
836.6	23.64	V	6.8	0.53	29.91	38.45
836.6	22.05	H	6.8	0.53	28.32	38.45
848.8	23.34	V	6.9	0.53	29.71	38.45
848.8	21.67	H	6.9	0.53	28.04	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	23.47	V	7.88	0.85	30.50	33
1850.2	22.12	H	7.88	0.85	29.15	33
1880	23.53	V	7.88	0.85	30.56	33
1880	22.24	H	7.88	0.85	29.27	33
1909.8	23.57	V	7.86	0.85	30.58	33
1909.8	22.28	H	7.86	0.85	29.29	33

EGPRS (MCS5):

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	16.72	V	6.8	0.53	22.99	38.45
824.2	15.17	H	6.8	0.53	21.44	38.45
836.6	16.94	V	6.8	0.53	23.21	38.45
836.6	15.34	H	6.8	0.53	21.61	38.45
848.8	16.97	V	6.9	0.53	23.34	38.45
848.8	15.37	H	6.9	0.53	21.74	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	19.45	V	7.88	0.85	26.48	33
1850.2	17.82	H	7.88	0.85	24.85	33
1880	19.56	V	7.88	0.85	26.59	33
1880	17.94	H	7.88	0.85	24.97	33
1909.8	19.56	V	7.86	0.85	26.57	33
1909.8	17.94	H	7.86	0.85	24.95	33

RMC

ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	13.95	V	6.8	0.53	20.22	38.45
826.4	12.4	H	6.8	0.53	18.67	38.45
835	13.89	V	6.8	0.53	20.16	38.45
835	12.25	H	6.8	0.53	18.52	38.45
846.6	13.86	V	6.9	0.53	20.23	38.45
846.6	12.31	H	6.9	0.53	18.68	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	16.15	V	7.88	0.85	23.18	33
1852.4	14.54	H	7.88	0.85	21.57	33
1880	16.11	V	7.88	0.85	23.14	33
1880	14.5	H	7.88	0.85	21.53	33
1907.6	16.25	V	7.86	0.85	23.26	33
1907.6	14.64	H	7.86	0.85	21.65	33

EIRP for UMTS-FDD Band IV (Part 27H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	16.15	V	7.88	0.85	23.18	33
1852.4	14.54	H	7.88	0.85	21.57	33
1880	16.11	V	7.88	0.85	23.14	33
1880	14.5	H	7.88	0.85	21.53	33
1907.6	16.25	V	7.86	0.85	23.26	33
1907.6	14.64	H	7.86	0.85	21.65	33

HSDPA

ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	13.25	V	6.8	0.53	19.52	38.45
826.4	11.56	H	6.8	0.53	17.83	38.45
835	13.21	V	6.8	0.53	19.48	38.45
835	11.52	H	6.8	0.53	17.79	38.45
846.6	13.17	V	6.9	0.53	19.54	38.45
846.6	11.48	H	6.9	0.53	17.85	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	15.42	V	7.88	0.85	22.45	33
1852.4	13	H	7.88	0.85	20.03	33
1880	15.48	V	7.88	0.85	22.51	33
1880	13.06	H	7.88	0.85	20.09	33
1907.6	15.46	V	7.86	0.85	22.47	33
1907.6	13.04	H	7.86	0.85	20.05	33

EIRP for UMTS-FDD Band IV (Part 27H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	15.09	V	7.76	0.82	22.03	30
1712.4	13.43	H	7.76	0.82	20.37	30
1740	15.13	V	7.76	0.82	22.07	30
1740	13.47	H	7.76	0.82	20.41	30
1752.6	15.12	V	7.74	0.82	22.04	30
1752.6	13.46	H	7.74	0.82	20.38	30

HSUPA

ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	13.29	V	6.8	0.53	19.56	38.45
826.4	11.6	H	6.8	0.53	17.87	38.45
835	13.18	V	6.8	0.53	19.45	38.45
835	11.49	H	6.8	0.53	17.76	38.45
846.6	13.16	V	6.9	0.53	19.53	38.45
846.6	11.47	H	6.9	0.53	17.84	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	15.39	V	7.88	0.85	22.42	33
1852.4	12.96	H	7.88	0.85	19.99	33
1880	15.35	V	7.88	0.85	22.38	33
1880	12.91	H	7.88	0.85	19.94	33
1907.6	15.47	V	7.86	0.85	22.48	33
1907.6	13.05	H	7.86	0.85	20.06	33

EIRP for UMTS-FDD Band IV (Part 27H)

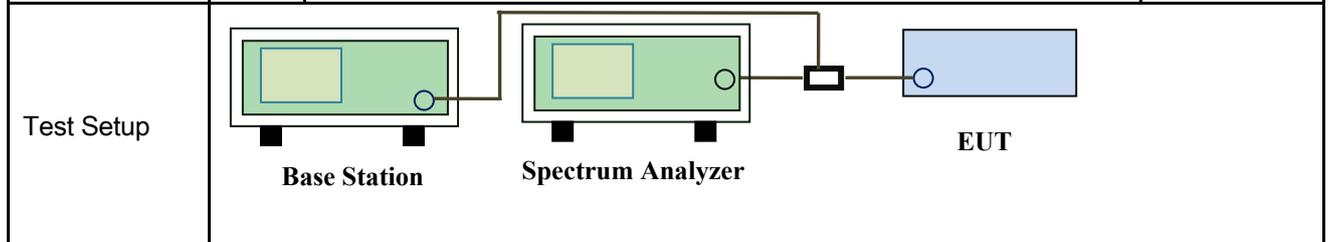
Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	15.17	V	7.76	0.82	22.11	30
1712.4	13.51	H	7.76	0.82	20.45	30
1740	15.14	V	7.76	0.82	22.08	30
1740	13.48	H	7.76	0.82	20.42	30
1752.6	15.14	V	7.74	0.82	22.06	30
1752.6	13.48	H	7.74	0.82	20.40	30

6.3 Peak-Average Ratio

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	Dec 12, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d) § 27.50(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.	<input checked="" type="checkbox"/>



Test Procedure	<p>According with KDB 971168 v02r02</p> <p>5.7.2 Alternate procedure for PAPR</p> <p>5.1.2 Peak power measurements with a peak power meter</p> <p>The total peak output power may be measured using a broadband peak RF power meter. The power meter must have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.</p> <p>5.2.3 Average power measurement with average power meter</p> <p>As an alternative to the use of a spectrum/signal analyzer or EMI receiver to perform a measurement of the total in-band average output power, a wideband RF average power meter with a thermocouple detector or equivalent can be used under certain conditions</p> <p>If the EUT can be configured to transmit continuously (i.e., the burst duty cycle $\geq 98\%$) and at all times the EUT is transmitting at its maximum output</p>
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	<p>power level, then a conventional wide-band RF power meter can be used.</p> <p>If the EUT cannot be configured to transmit continuously (i.e., the burst duty cycle < 98%), then there are two options for the use of an average power meter. First, a gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only over active transmission bursts at maximum output power levels. A conventional average power meter can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to $10\log(1/\text{duty cycle})$</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A
Test Plot Yes (See below) N/A

GSM : GSM 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	30.35	29.98	0.37
1880	30.31	30.09	0.22
1909.8	30.36	30.04	0.32

GPRS 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	30.32	29.94	0.38
1880	30.29	30.05	0.24
1909.8	30.37	29.98	0.39

EGPRS (MSC5) 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	25.85	25.42	0.43
1880	25.79	25.59	0.2
1909.8	25.84	25.57	0.27

RMC : UMTS-FDD Band II PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	23.11	22.84	0.27
1880	23.05	22.79	0.26
1907.6	23.04	22.9	0.14

UMTS-FDD Band IV PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1712.6	22.46	22.33	0.13
1732.6	22.38	22.25	0.13
1752.4	22.32	22.15	0.17

HSUPA : UMTS-FDD Band II PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	22.28	21.89	0.39
1880	22.3	21.81	0.49
1907.6	22.26	21.86	0.4

UMTS-FDD Band IV PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1712.6	21.71	21.56	0.15
1732.6	21.76	21.53	0.23
1752.4	21.78	21.6	0.18

HSDPA : UMTS-FDD Band II PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	22.23	22.03	0.2
1880	22.26	22.08	0.18
1907.6	22.3	22.04	0.26

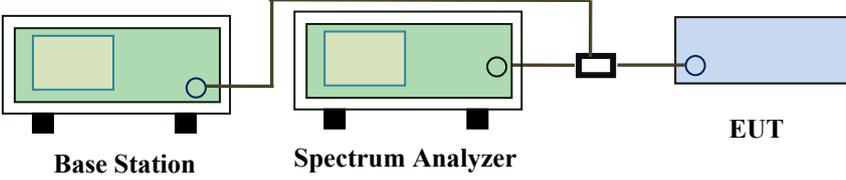
UMTS-FDD Band IV PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1712.6	21.79	21.53	0.26
1732.6	21.8	21.51	0.29
1752.4	21.76	21.57	0.19

6.4 Occupied Bandwidth

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	Dec 12, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049, §22.917, §22.905 §24.238 §27.53(a)	a)	99% Occupied Bandwidth(kHz)	<input checked="" type="checkbox"/>
	b)	26 dB Bandwidth(kHz)	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>		
Test Procedure	<ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers. 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A

Test Plot Yes (See below) N/A

GSM Voice:

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	244.6675	318.221
190	836.6	244.0235	319.303
251	848.8	243.2744	321.721

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	2461132	320.875
661	1880.0	242.7159	317.737
810	1909.8	245.5442	324.916

GPRS:

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	248.8691	322.175
190	836.6	245.3959	319.585
251	848.8	240.9684	319.218

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	245.0723	319.010
661	1880.0	249.8527	323.180
810	1909.8	246.3807	324.803

EGPRS (MCS 5):

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	247.2185	318.531
190	836.6	245.8606	321.593
251	848.8	249.2790	319.379

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	24.0906	324.465
661	1880.0	243.9238	318.373
810	1909.8	245.4477	322.098

RMC:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1093	4.681
4175	835.0	4.1095	4.701
4233	846.6	4.1140	4.709

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.0898	4.681
9400	1880.0	4.1243	4.743
9538	1907.6	4.1400	4.783

UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.0974	4.672
1413	1733	4.1094	4.689
1512	1752	4.0901	4.683

HSUPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.6	4.0936	4.672
4175	835.0	4.1139	4.712
4233	846.6	4.1080	4.720

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.0919	4.683
9400	1880.0	4.1141	4.752
9538	1907.6	4.1385	4.761

UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.0989	4.693
1413	1733	4.1031	4.710
1512	1752	4.1101	4.685

HSDPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.0991	4.694
4175	835.0	4.0982	4.712
4233	846.6	4.1128	4.702

UMTS-FDD Band II (Part 24E)

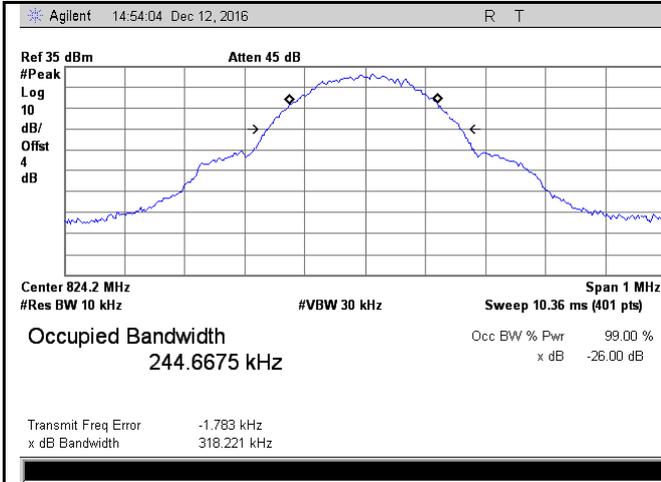
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1628	4.700
9400	1880.0	4.1576	4.717
9538	1907.6	4.1574	4.708

UMTS-FDD Band IV (Part 27)

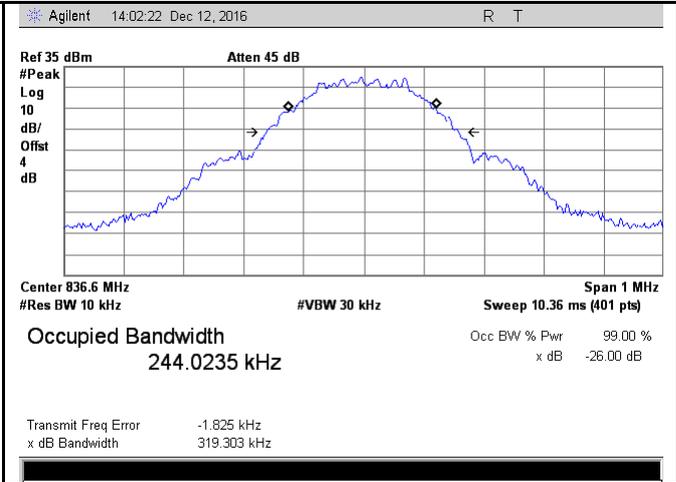
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.0963	4.677
1413	1733	4.1097	4.713
1512	1752	4.1113	4.672

Test Plots

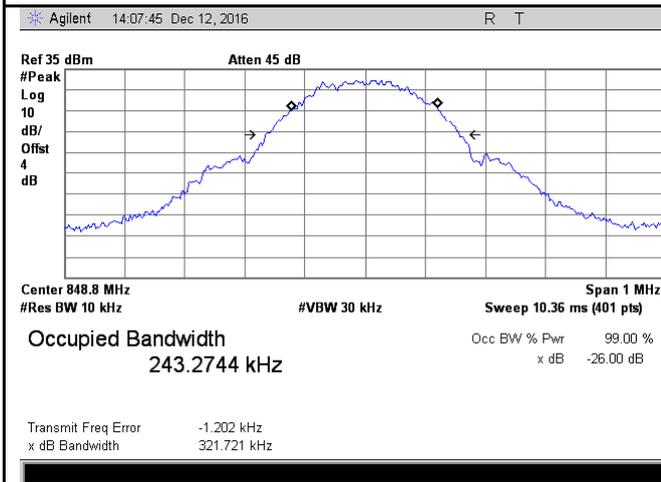
GMS Voice:



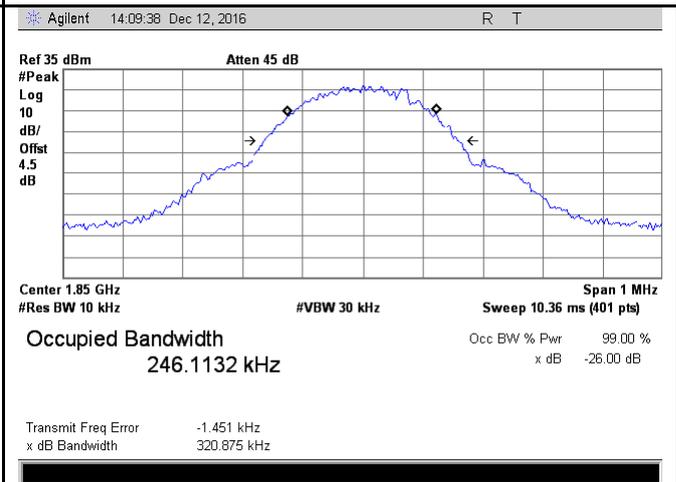
GSM 850 BW - Low CH 824.2MHz



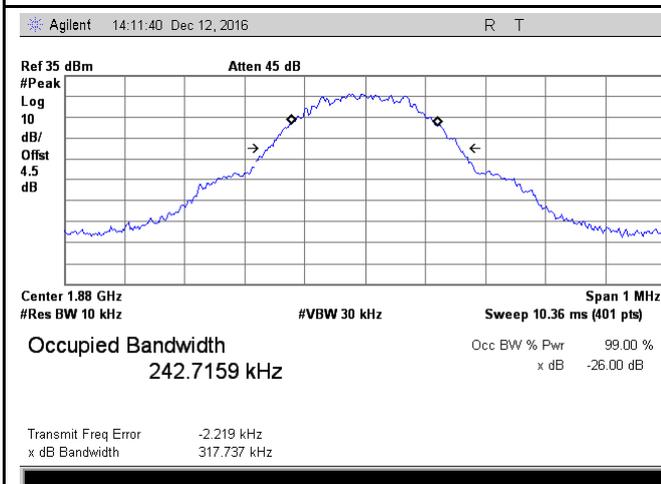
GSM 850 BW - Mid CH 836.6MHz



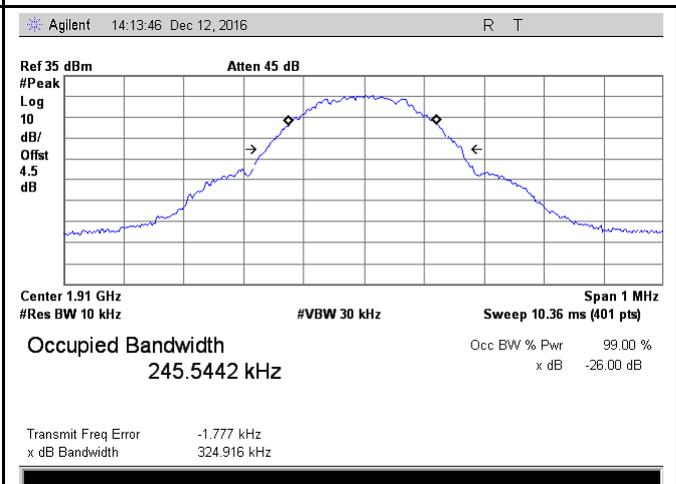
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

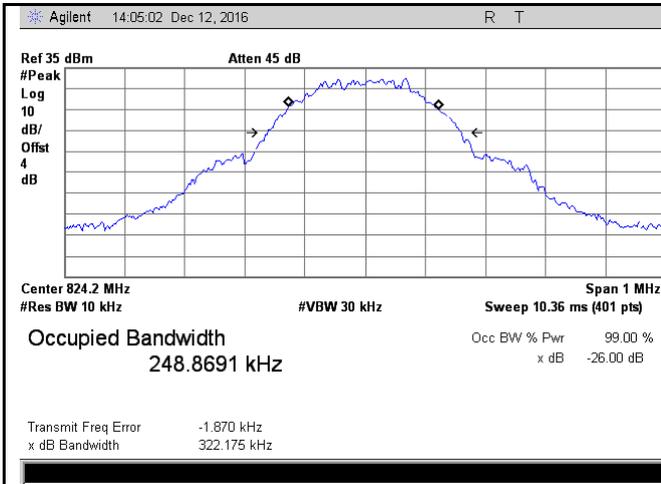


PCS 1900 BW - Mid CH 1880MHz

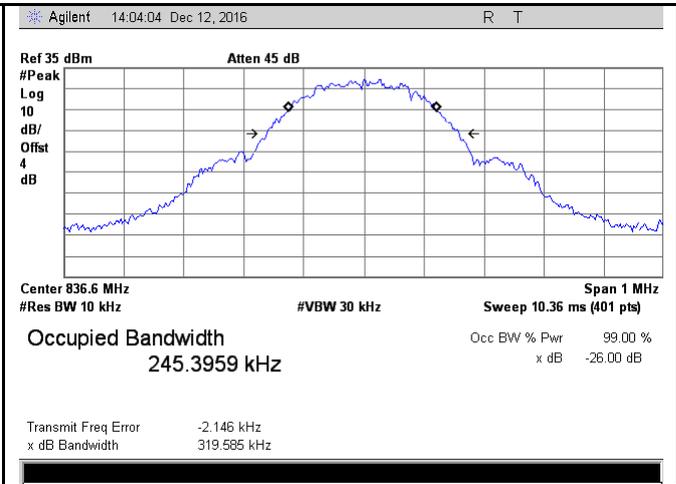


PCS 1900 BW - High CH 1910MHz

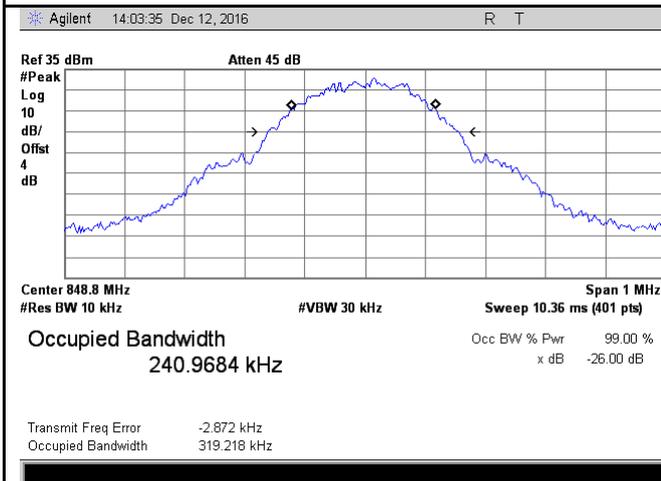
GPRS:



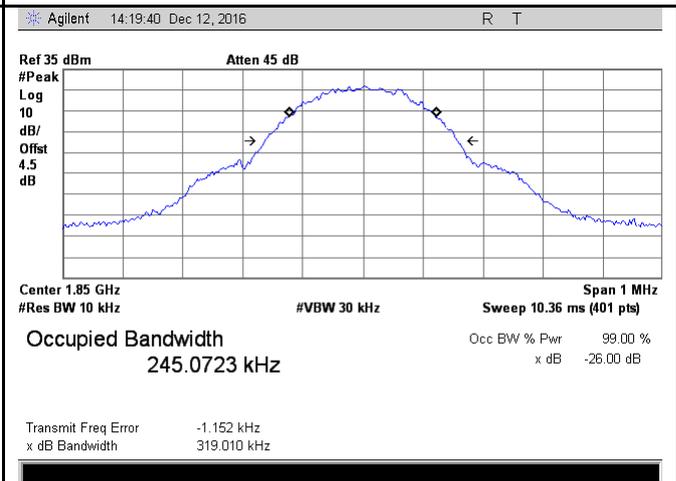
GSM 850 BW - Low CH 824.2MHz



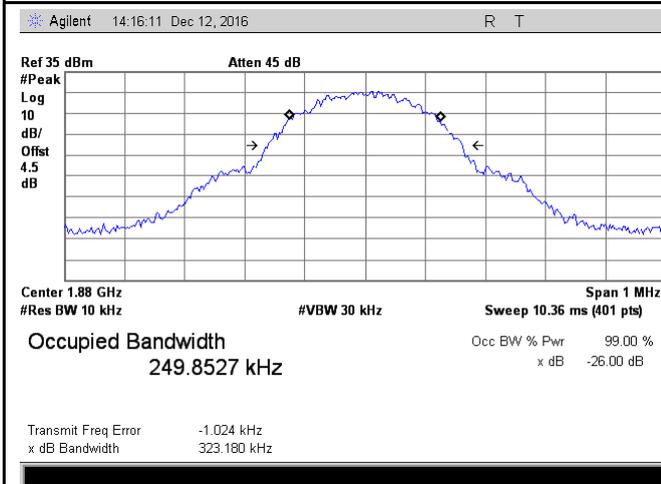
GSM 850 BW - Mid CH 836.6MHz



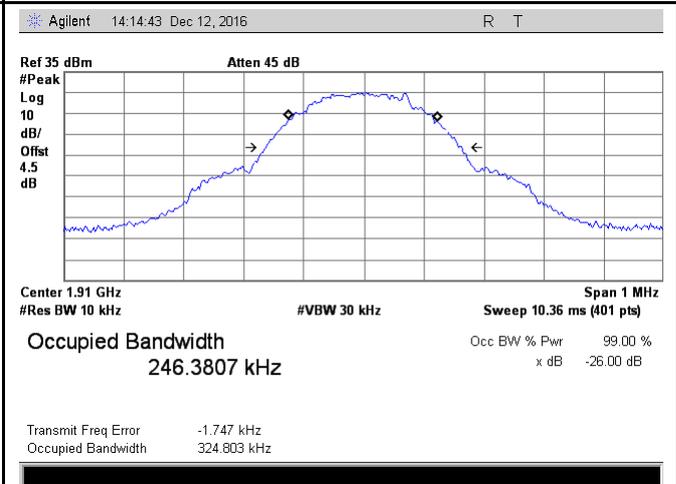
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

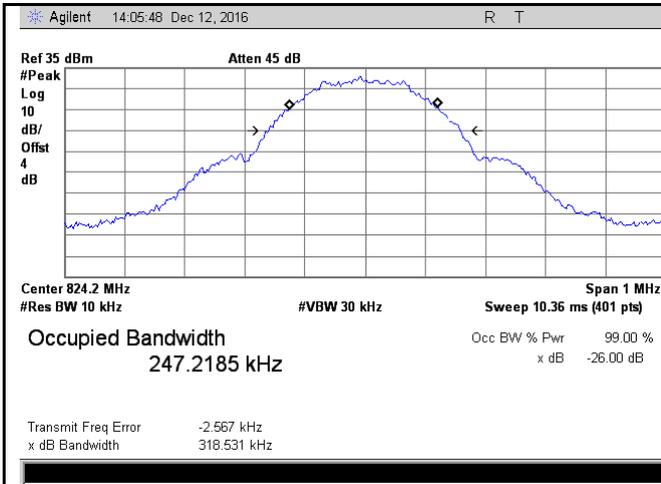


PCS 1900 BW - Mid CH 1880MHz

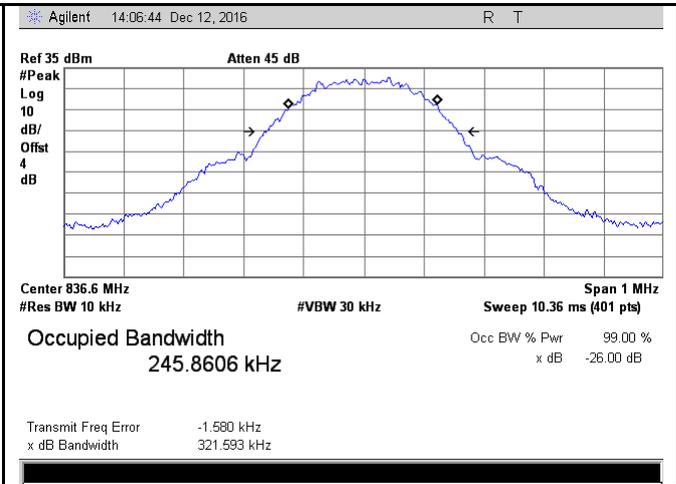


PCS 1900 BW - High CH 1910MHz

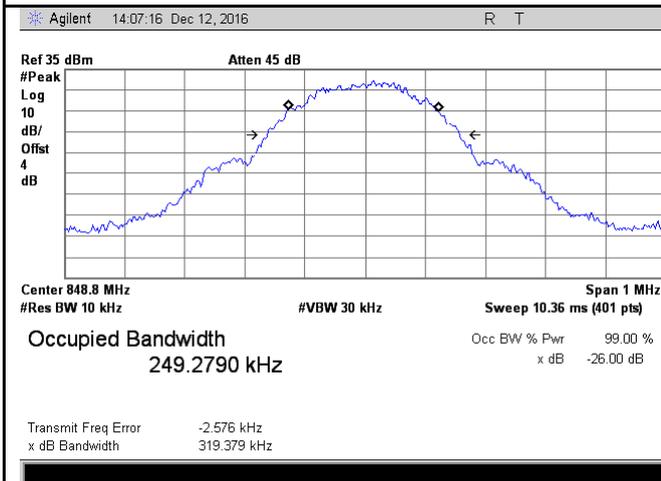
EGPRS:



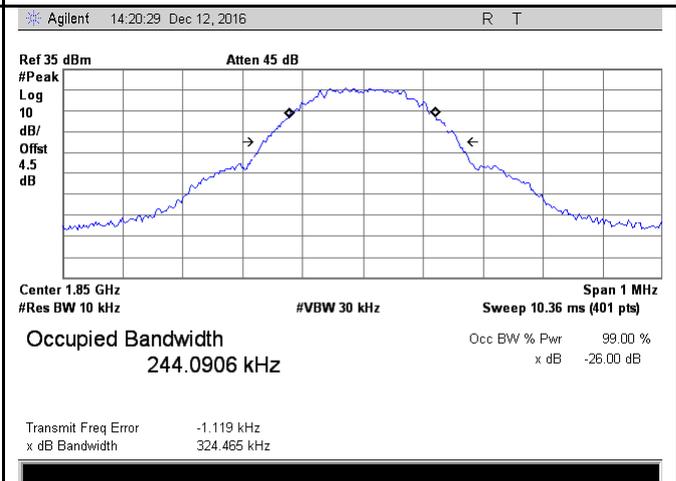
GSM 850 BW - Low CH 824.2MHz



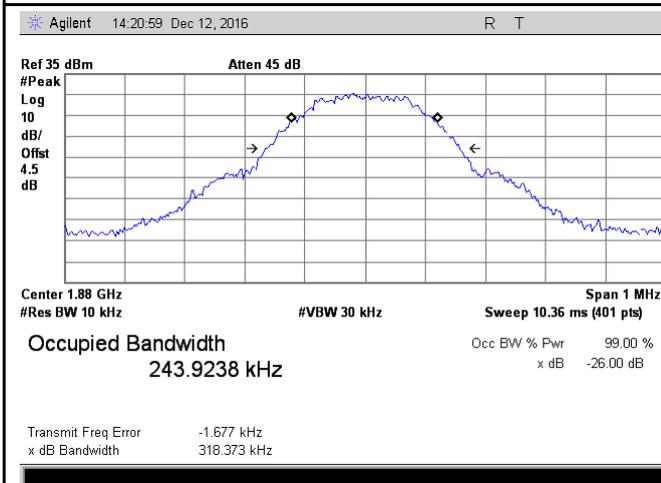
GSM 850 BW - Mid CH 836.6MHz



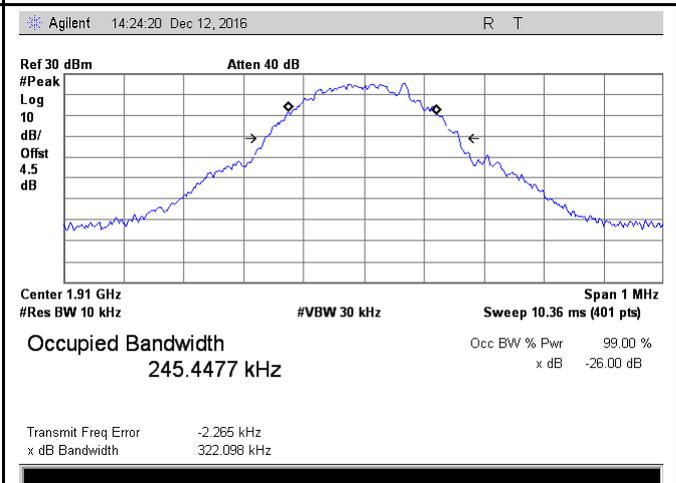
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

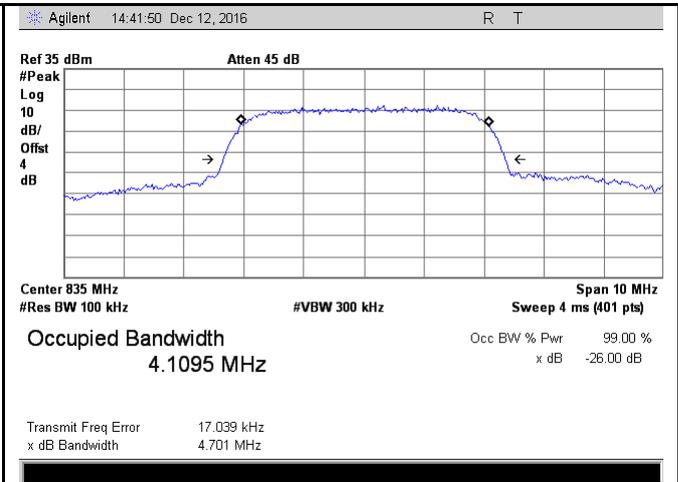
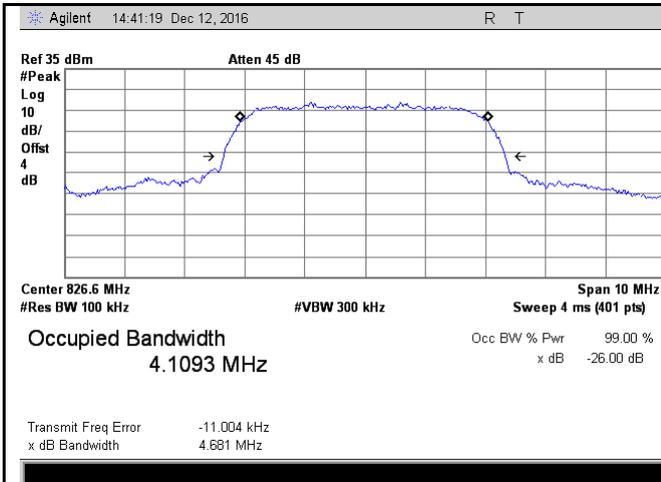


PCS 1900 BW - Mid CH 1880MHz

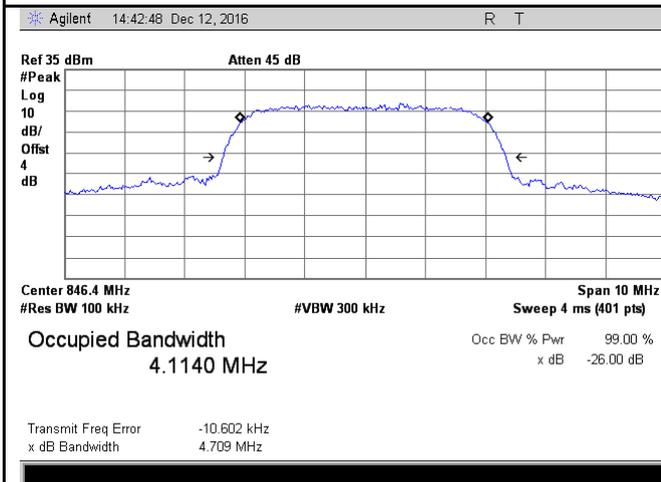


PCS 1900 BW - High CH 1910MHz

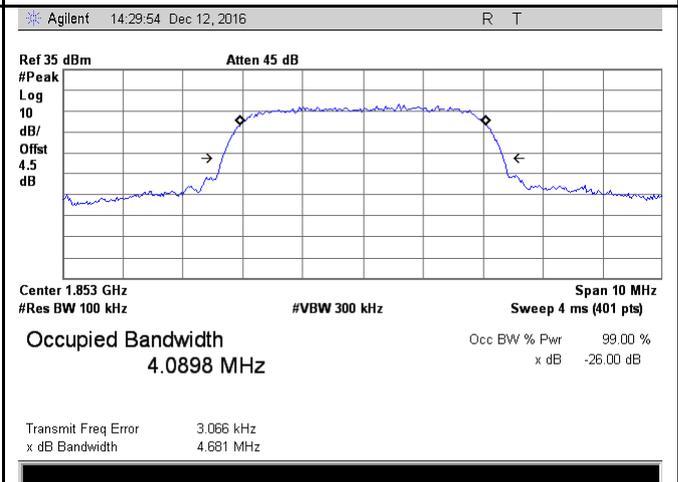
RMC:



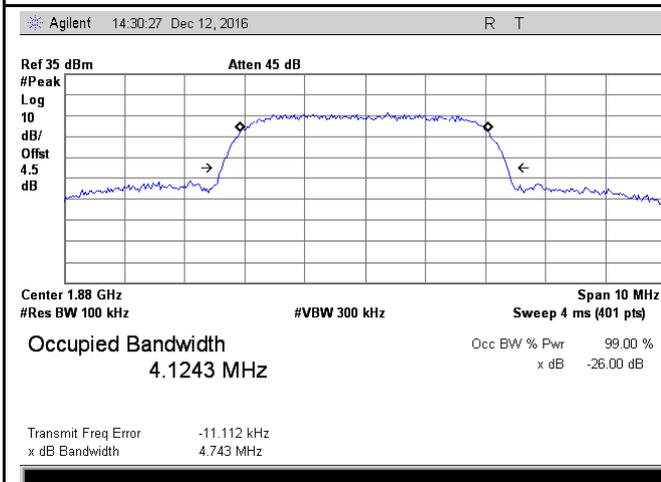
Band V BW - Low CH 826.6 MHz



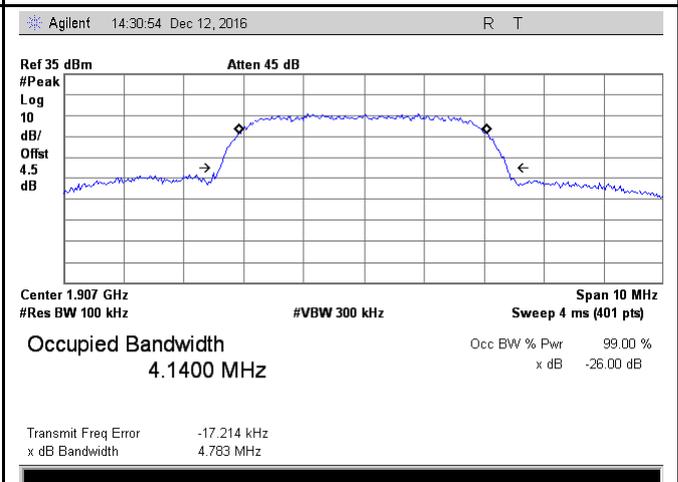
Band V BW - Mid CH 835.0 MHz



Band V BW - High CH 846.6 MHz

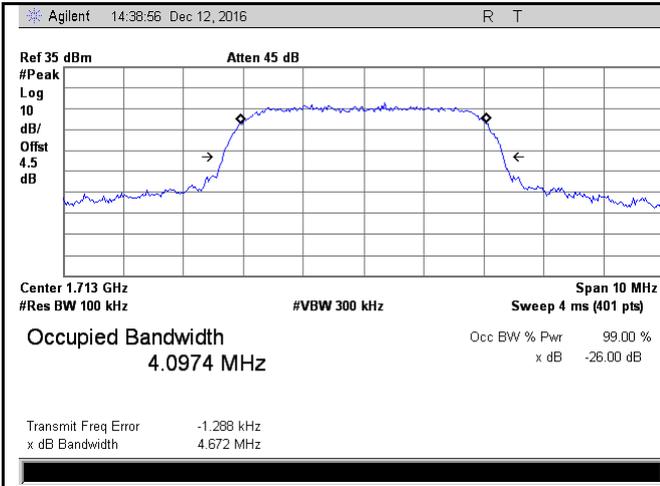


Band II BW - Low CH 1853MHz

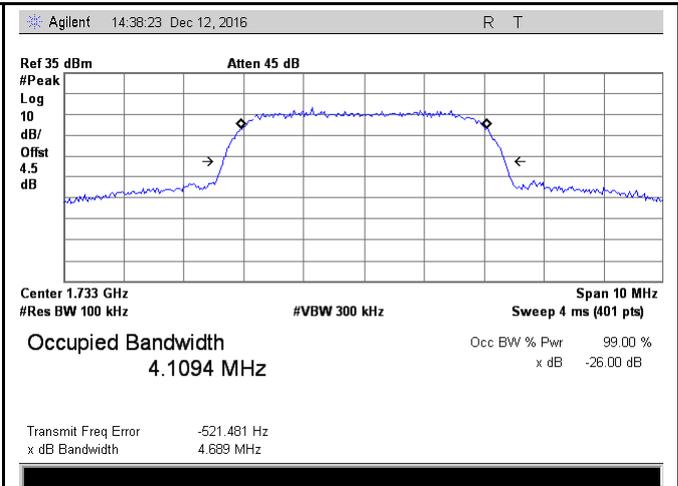


Band II BW - Mid CH 1880MHz

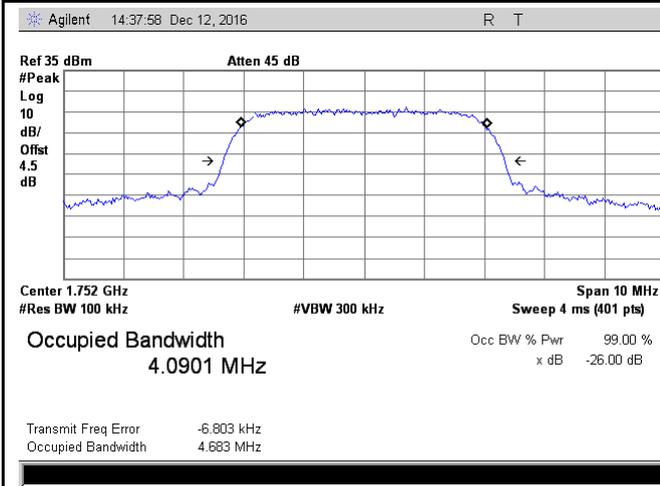
Band II BW - High CH 1907MHz



Band IV BW - Low CH 1713MHz

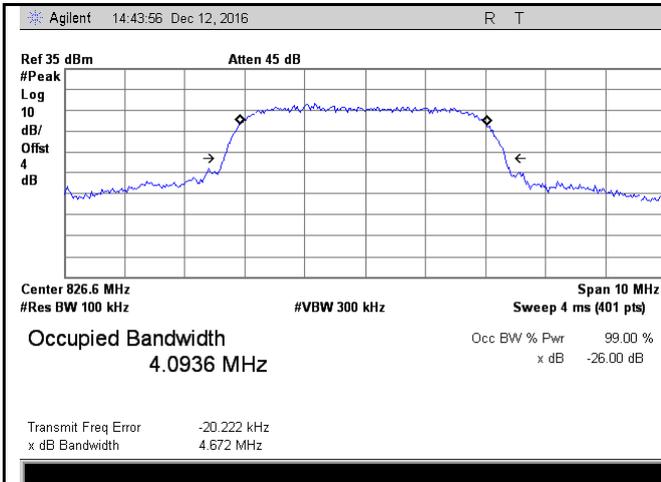


Band IVBW - Mid CH 1733MHz

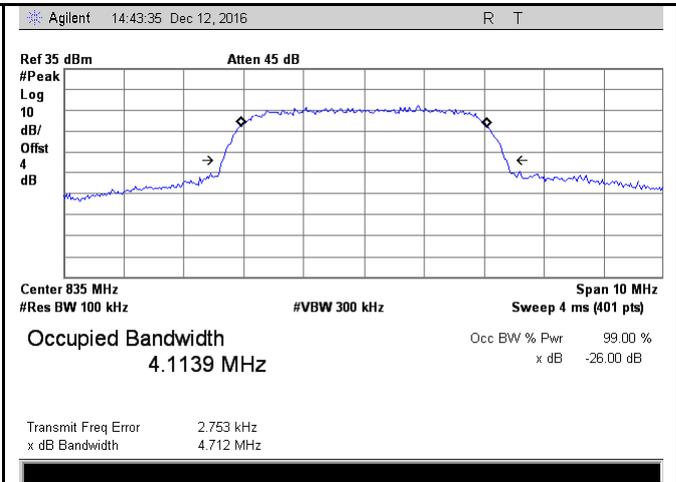


Band IV BW - High CH 1752MHz

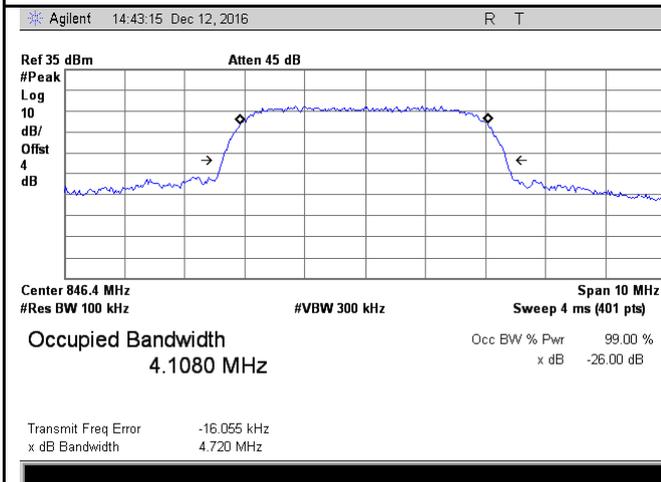
HSUPA:



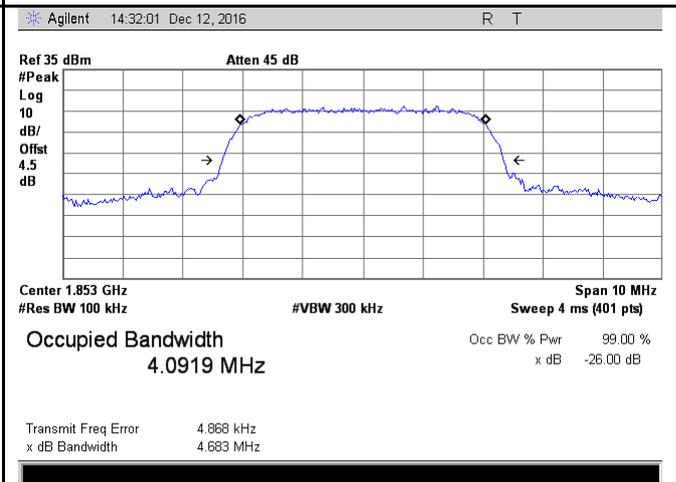
Band V BW - Low CH 826.6 MHz



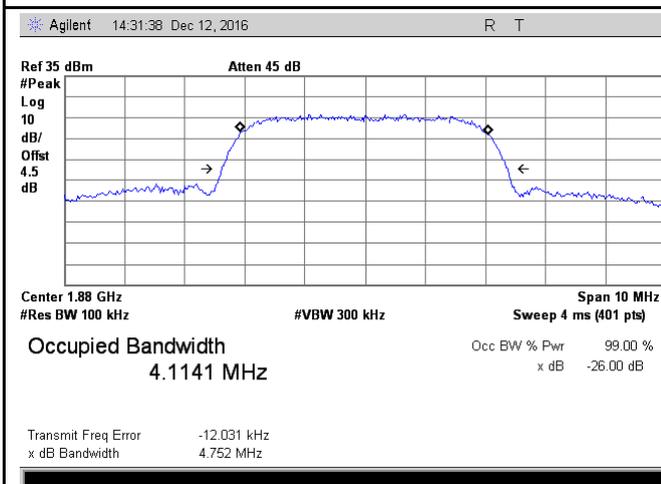
Band V BW - Mid CH 835.0 MHz



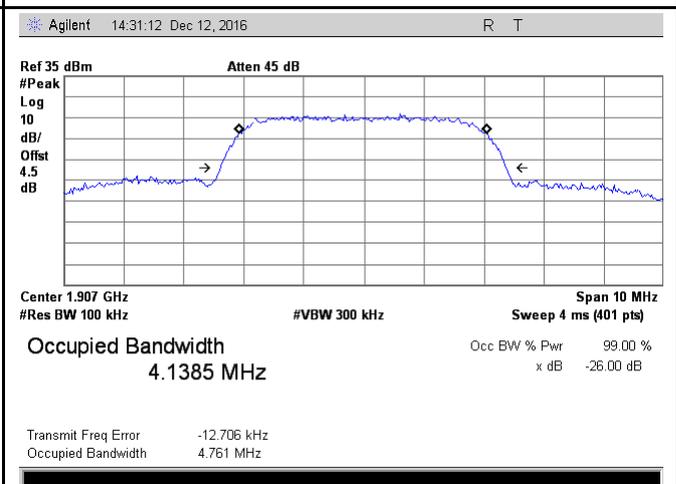
Band V BW - High CH 846.4 MHz



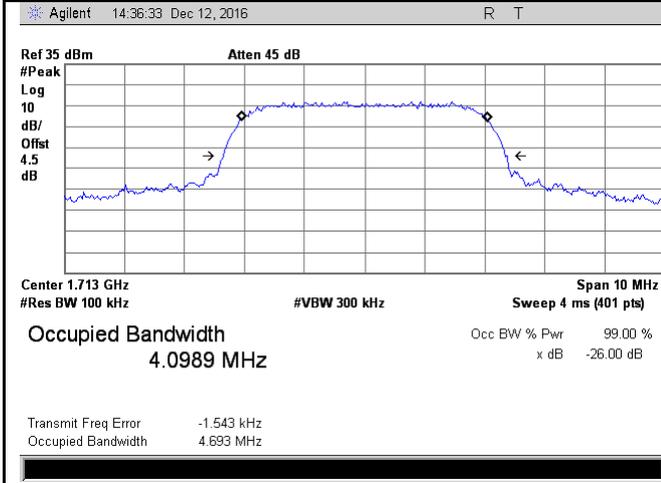
Band II BW - Low CH 1852.4MHz



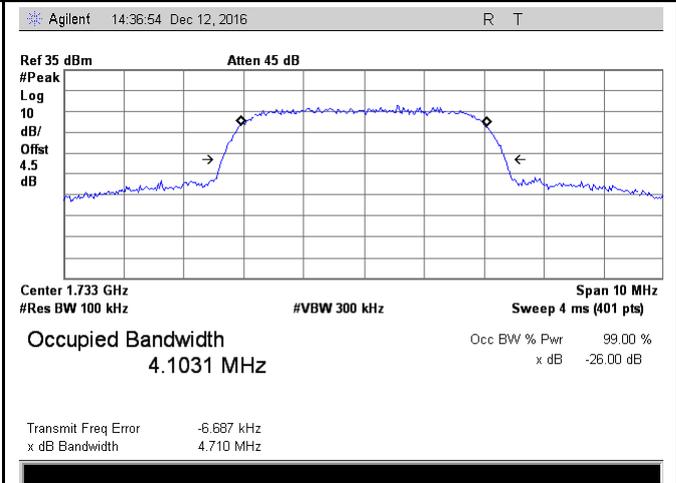
Band II BW - Mid CH 1880MHz



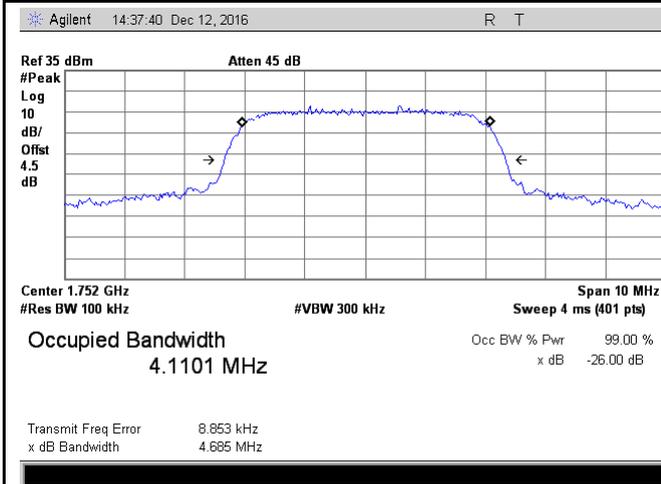
Band II BW - High CH 1907MHz



Band IV BW - Low CH 1713MHz

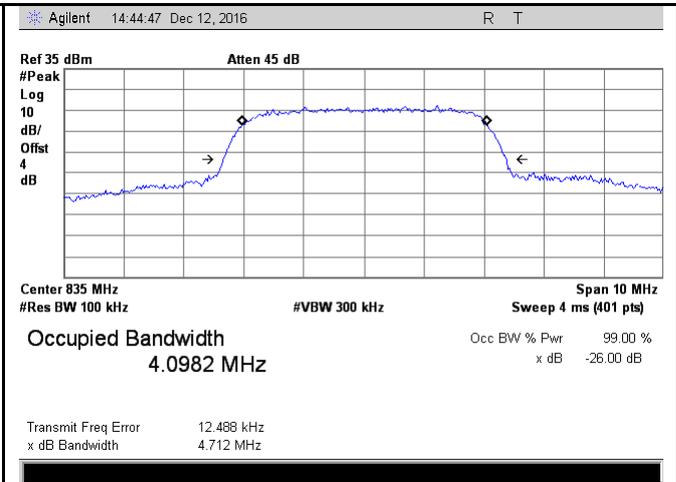
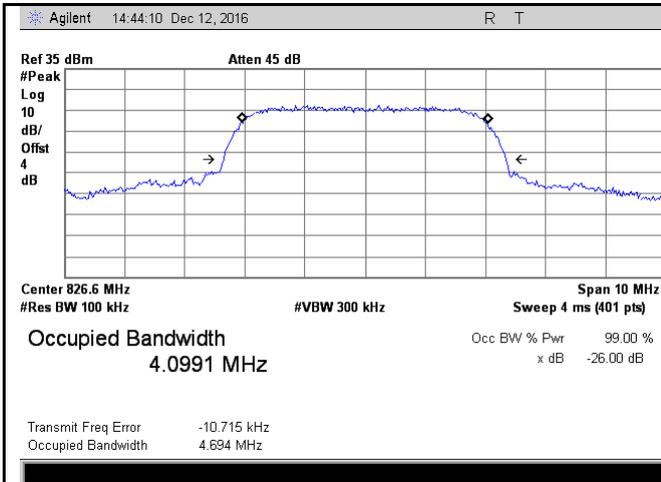


Band IVBW - Mid CH 1733MHz

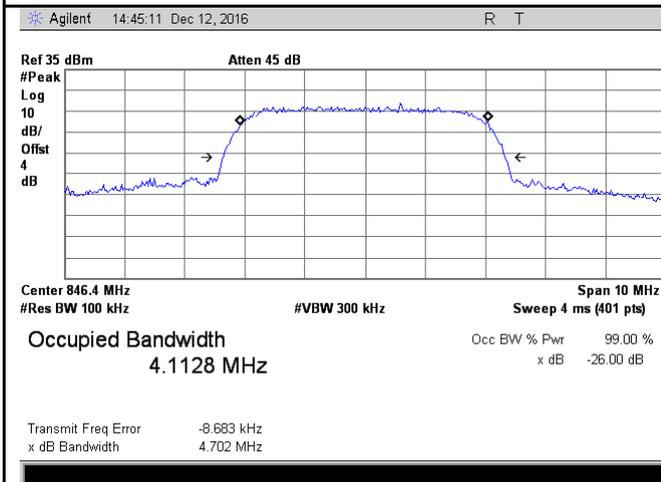


Band IV BW - High CH 1752MHz

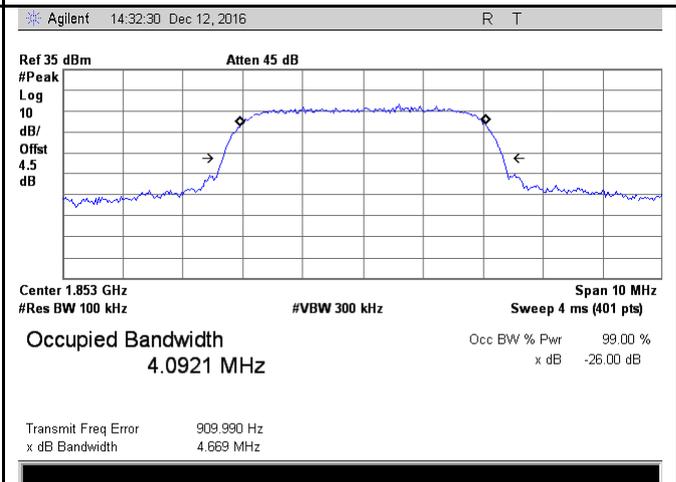
HSDPA:



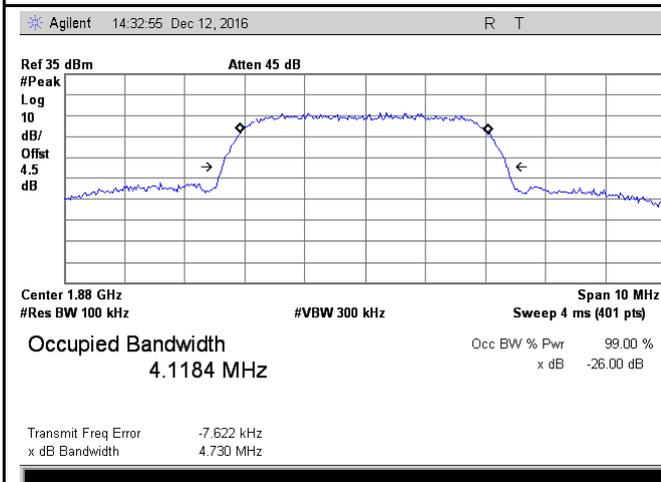
Band V BW - Low CH 826.6 MHz



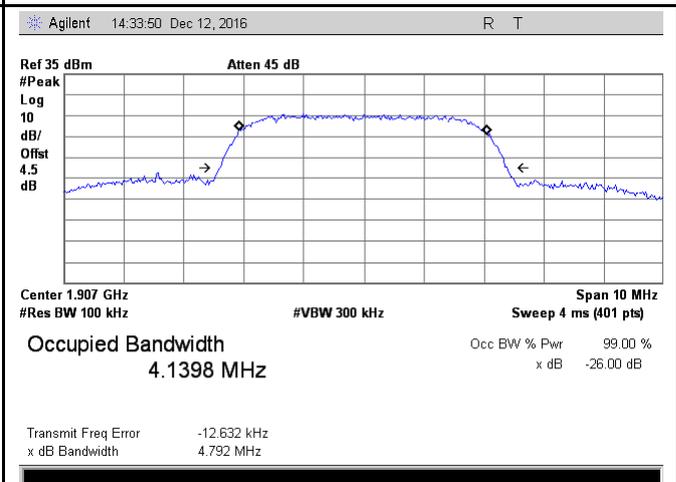
Band V BW - Mid CH 835.0 MHz



Band V BW - High CH 846.4 MHz

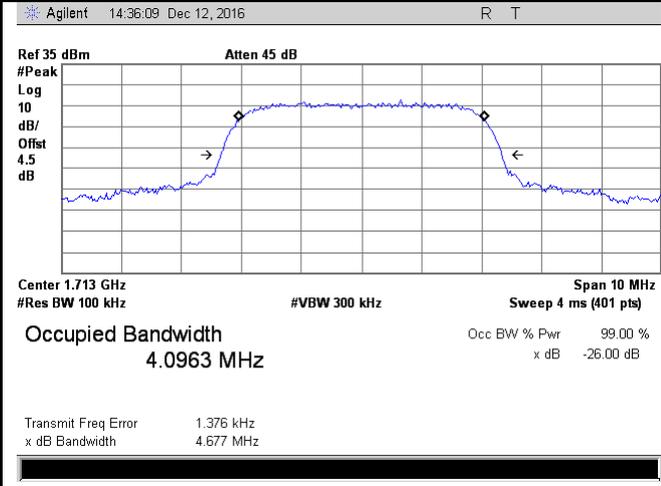


Band II BW - Low CH 1853MHz

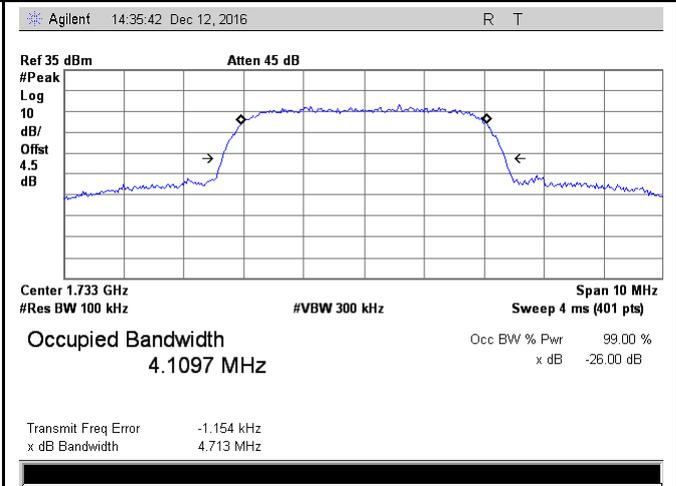


Band II BW - Mid CH 1880MHz

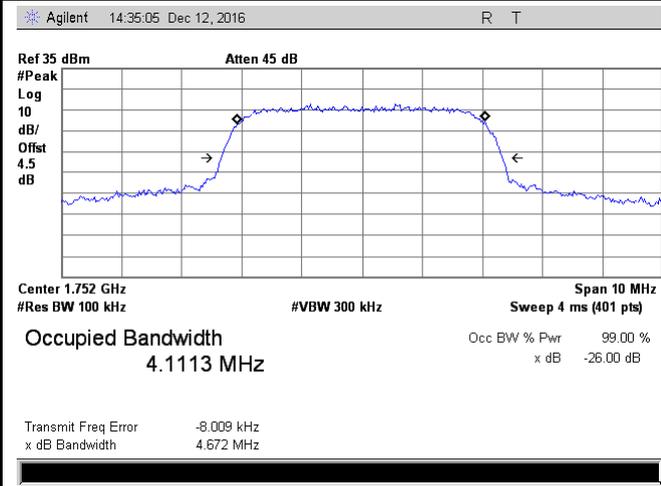
Band II BW - High CH 1907MHz



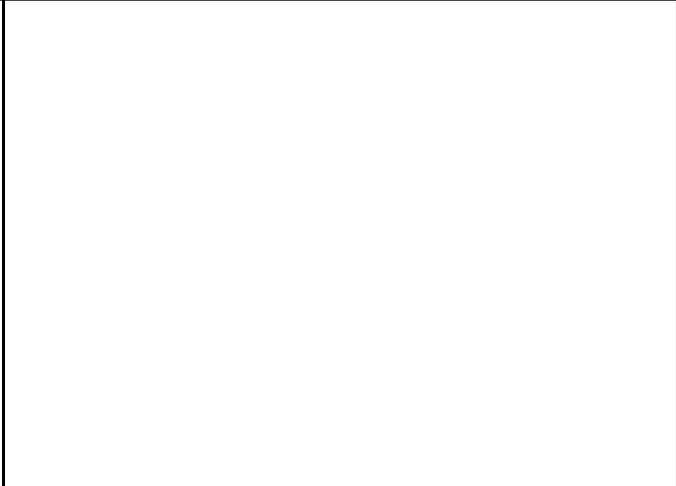
Band IV BW - Low CH 1713MHz



Band IVBW - Mid CH 1733MHz



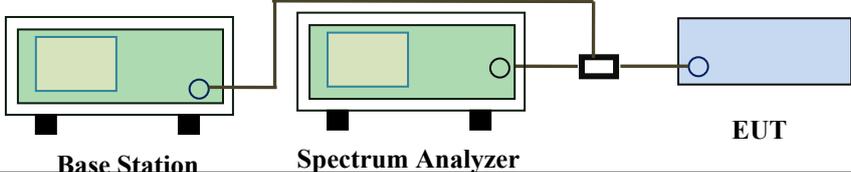
Band IV BW - High CH 1752MHz



6.5 Spurious Emissions at Antenna Terminals

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	Dec 12, 2016
Tested By :	Loren Luo

Requirement(s):

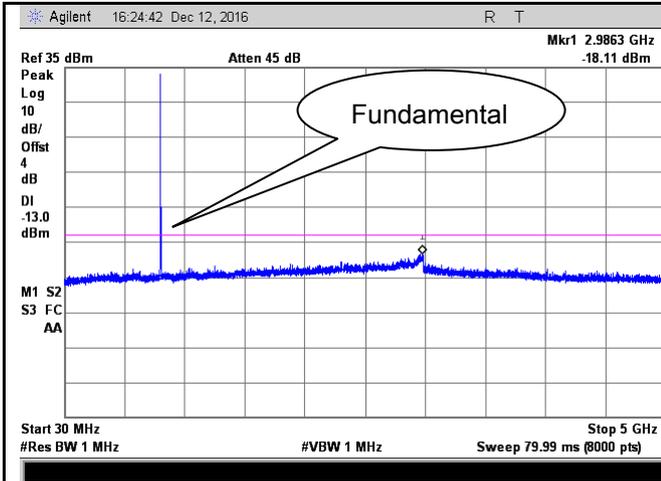
Spec	Item	Requirement	Applicable
§2.1051, §22.917(a)& §24.238(a) § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log(P)$ dB	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>		
Test Procedure	<ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. - Setting RBW as roughly BW/100. 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A
 Test Plot Yes (See below) N/A

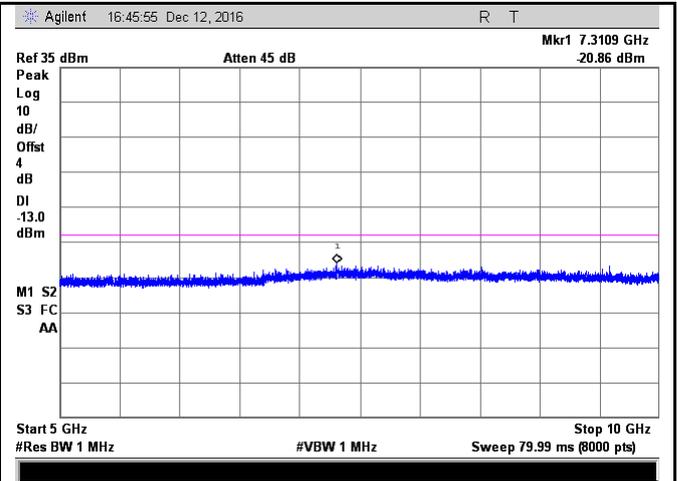
Test Plots

GSM Voice:

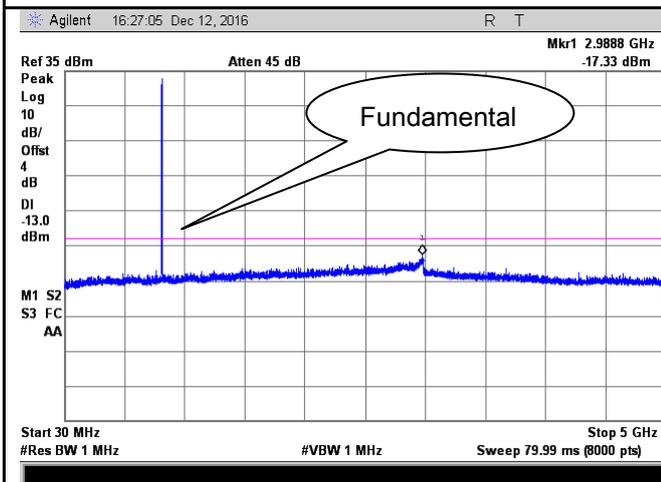
Cellular Band (Part 22H) result



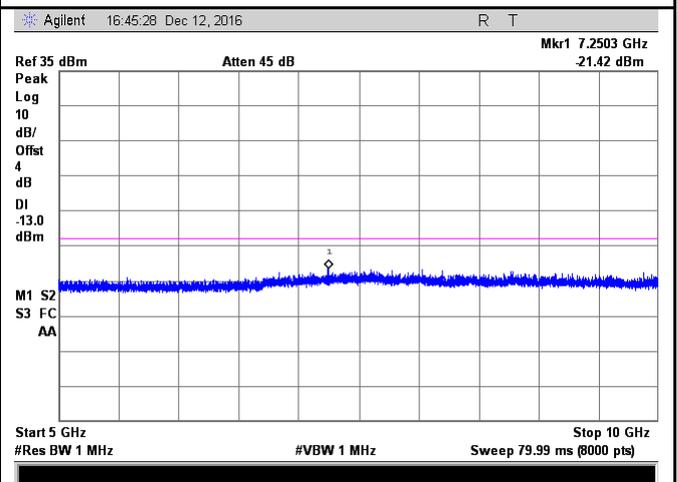
GSM 850 - Low Channel-1



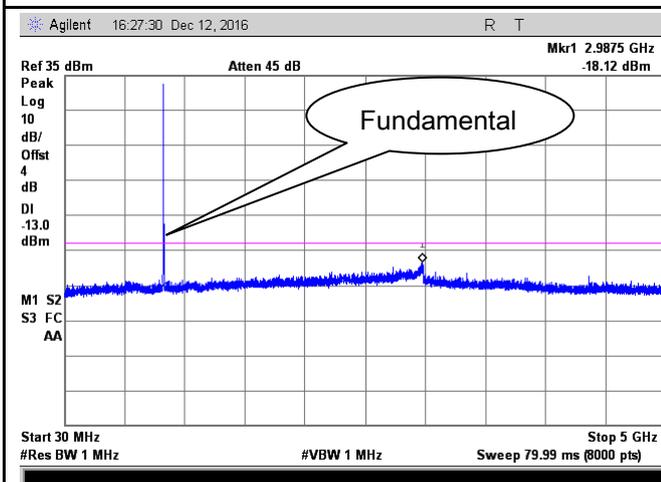
GSM 850 - Low Channel-2



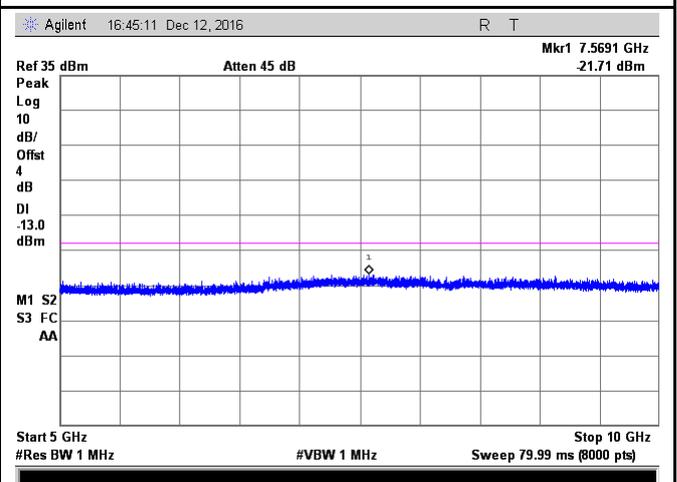
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

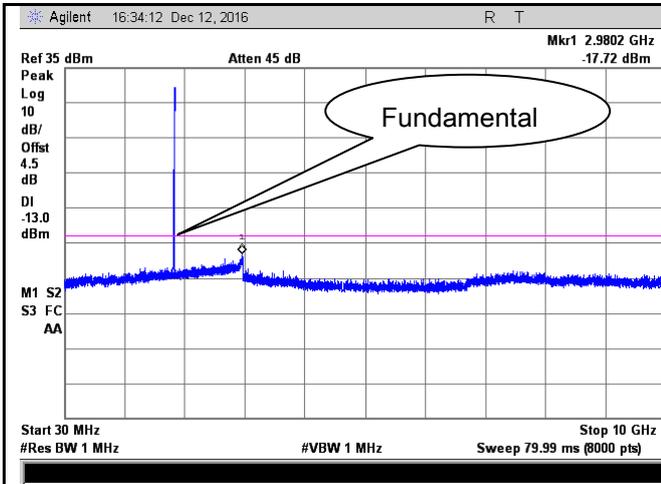


GSM 850 - High Channel-1

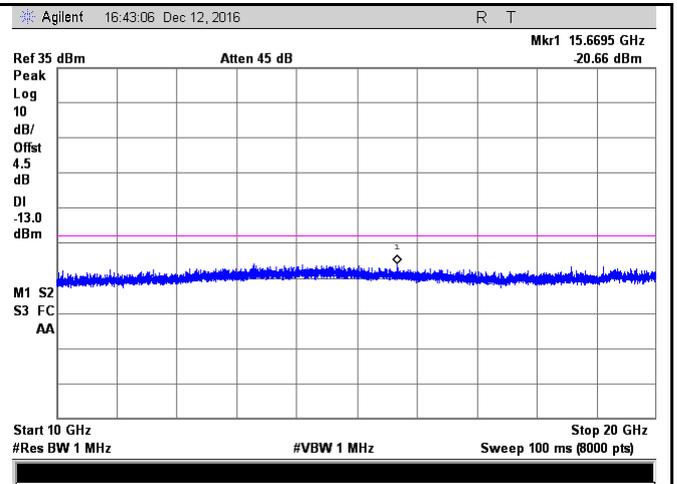


GSM 850 - High Channel-2

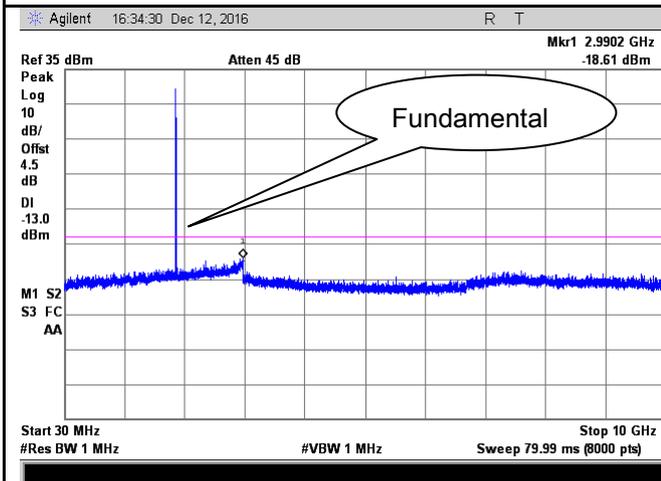
PCS Band (Part24E) result



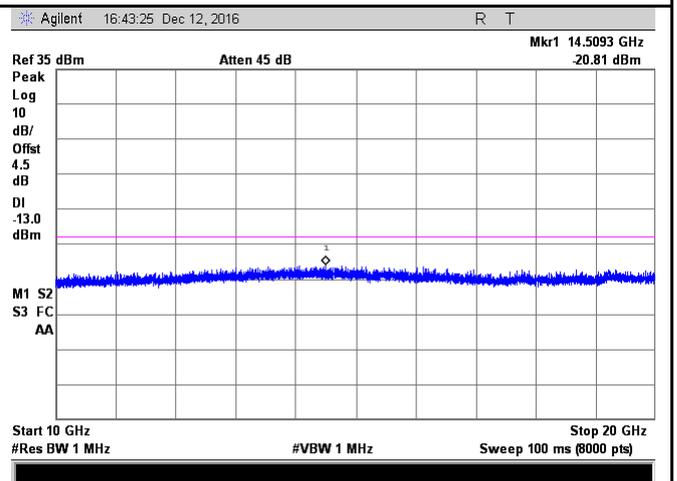
PCS1900 - Low Channel-1



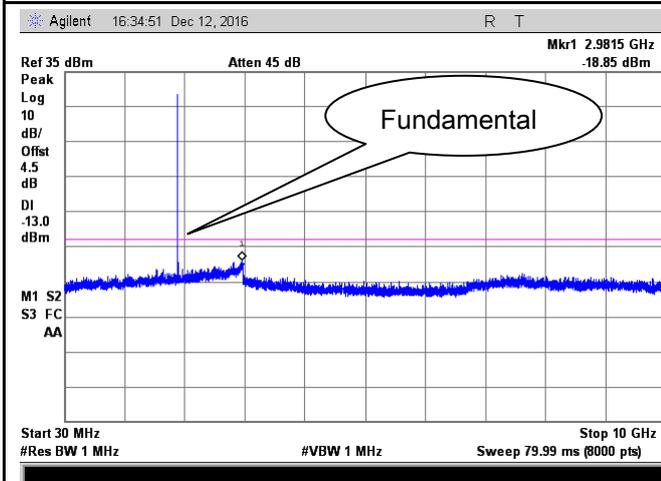
PCS 1900 - Low Channel-2



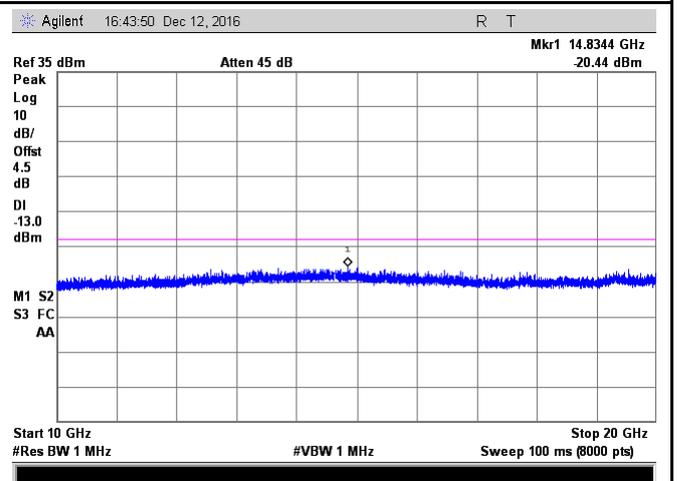
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2



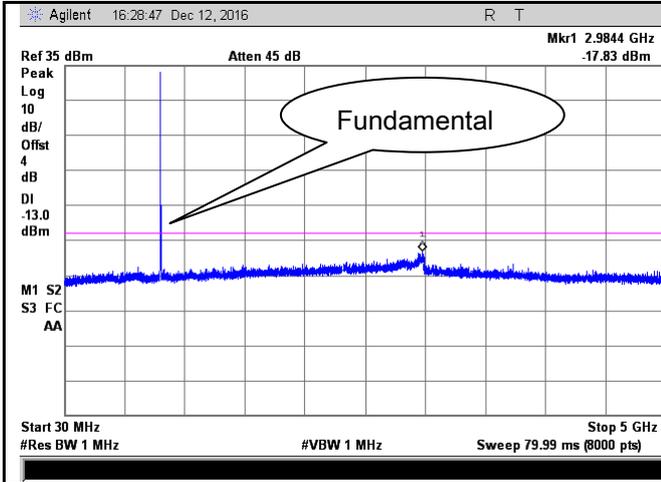
PCS1900 - High Channel-1



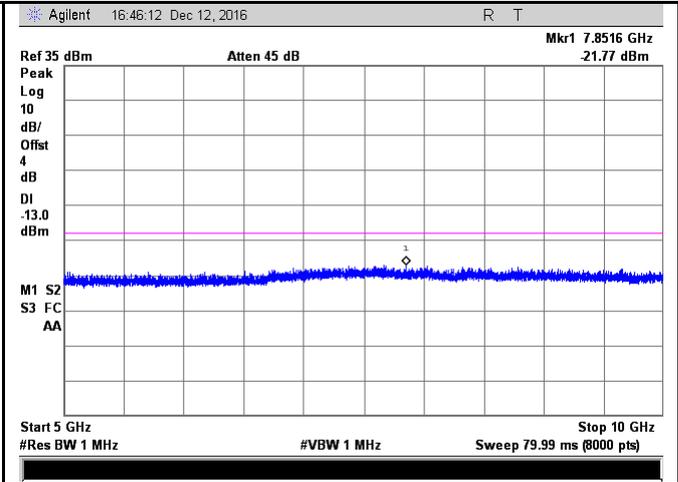
PCS 1900 - High Channel-2

GPRS:

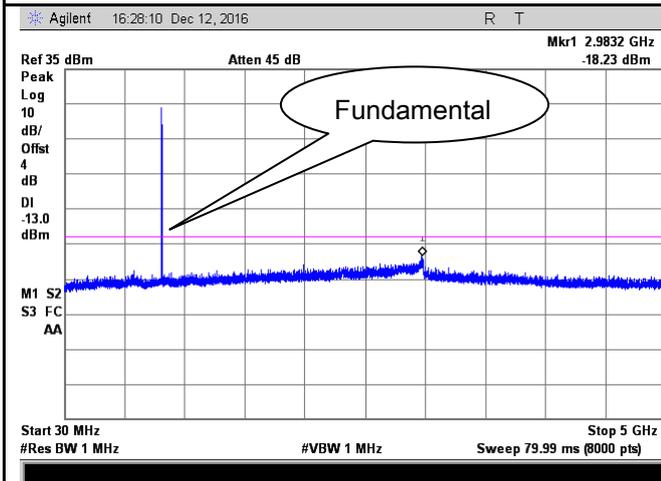
Cellular Band (Part 22H) result



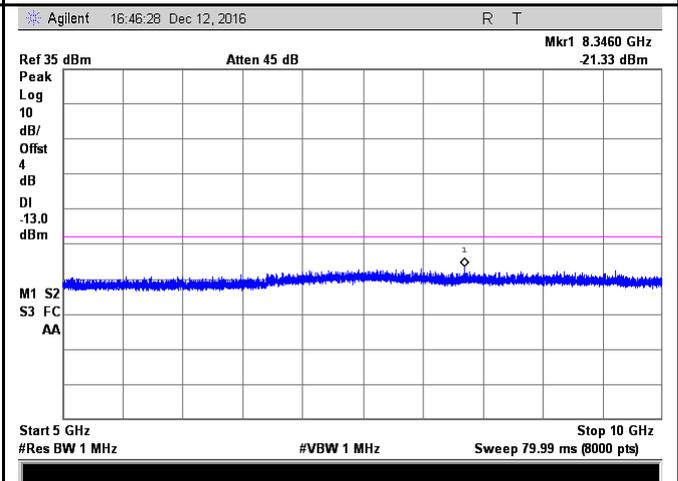
GSM 850 - Low Channel-1



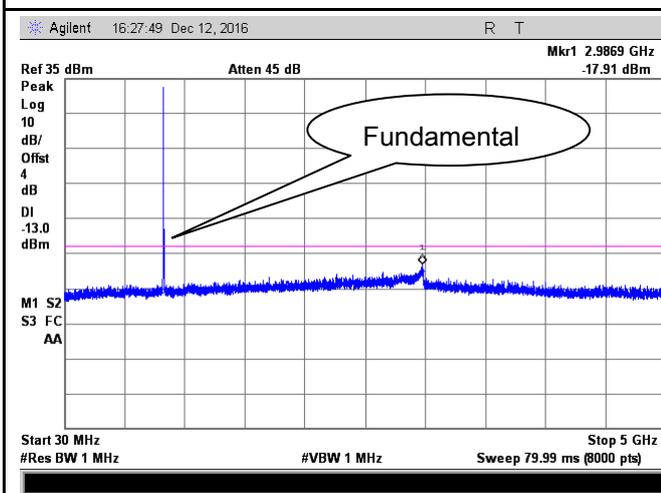
GSM 850 - Low Channel-2



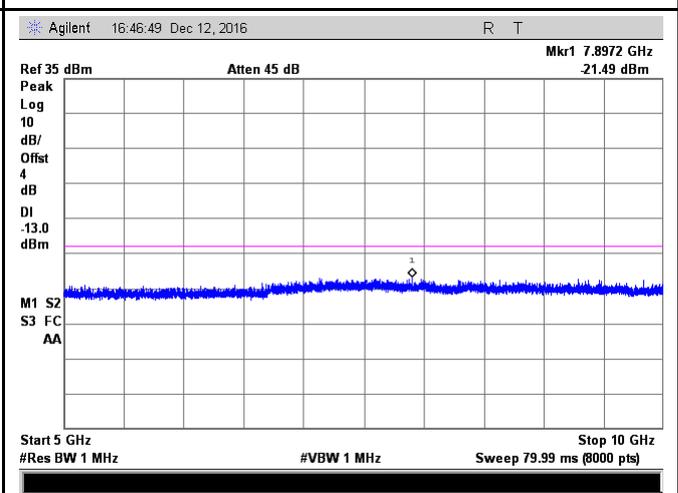
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

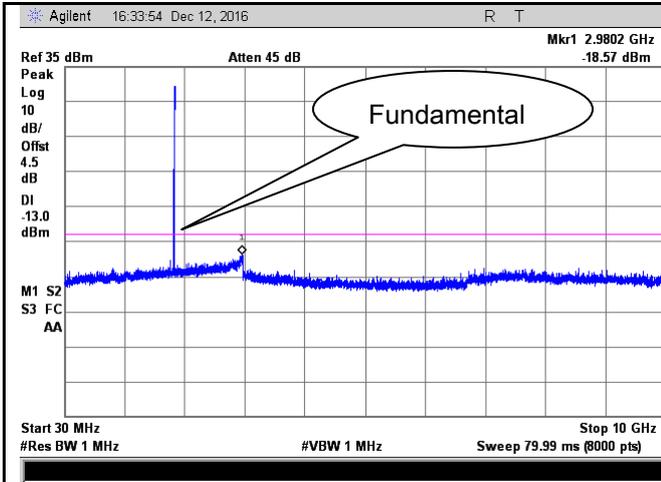


GSM 850 - High Channel-1

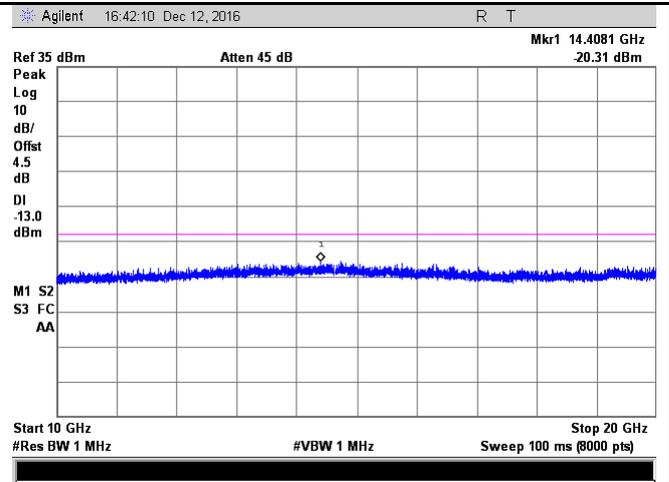


GSM 850 - High Channel-2

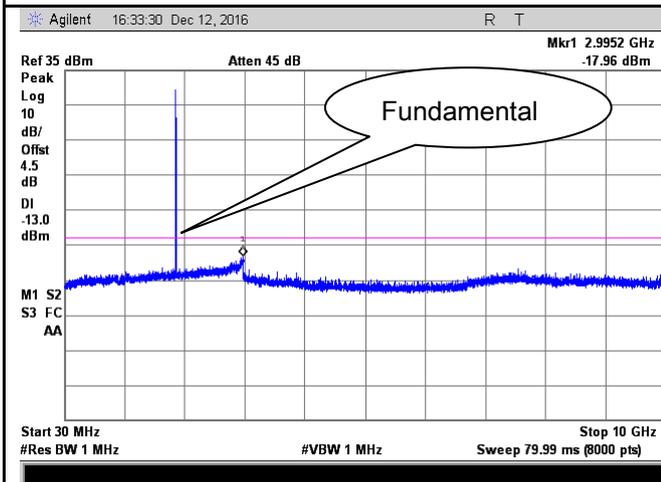
PCS Band (Part24E) result



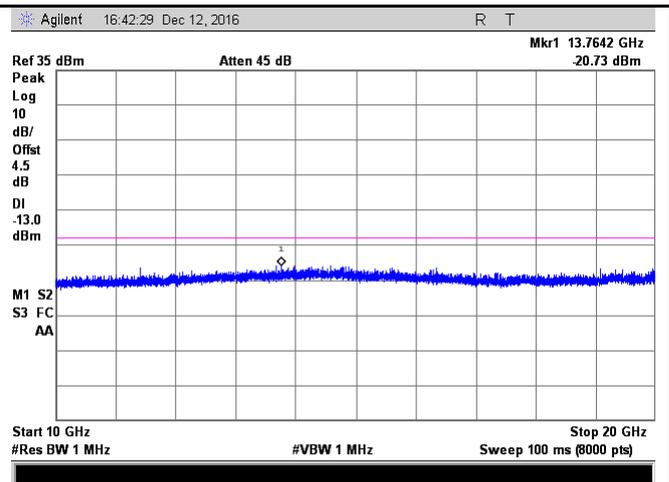
PCS1900 - Low Channel-1



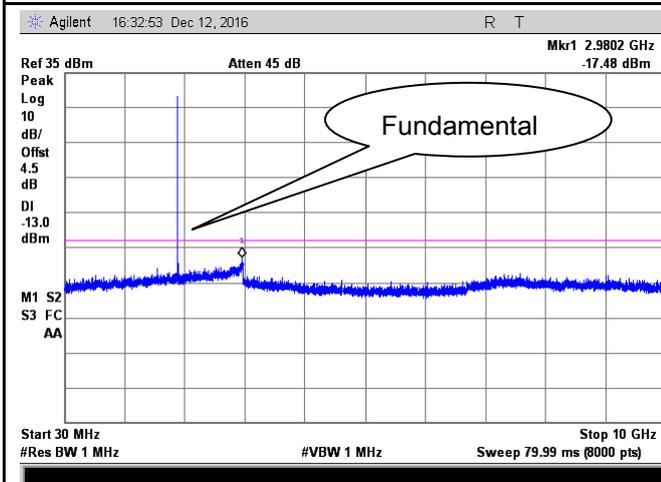
PCS 1900 - Low Channel-2



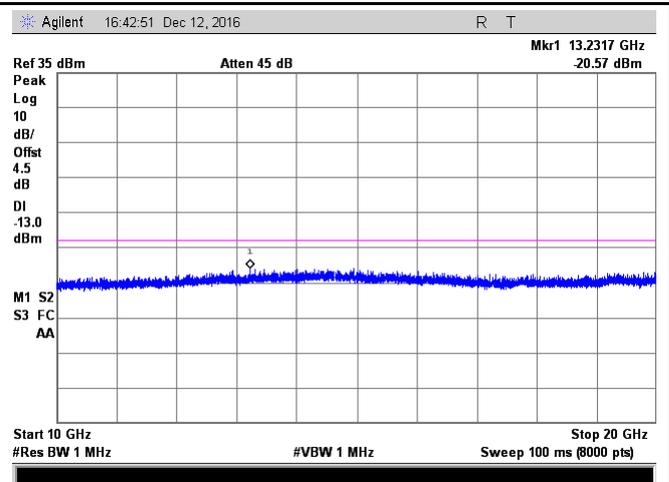
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2

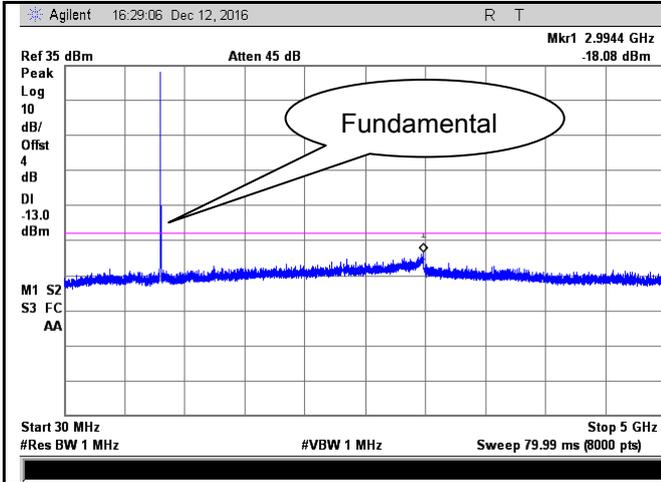


PCS1900 - High Channel-1

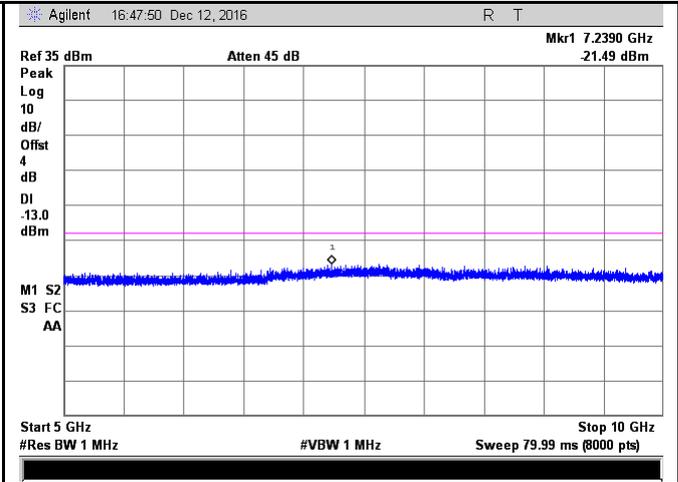


PCS 1900 - High Channel-2

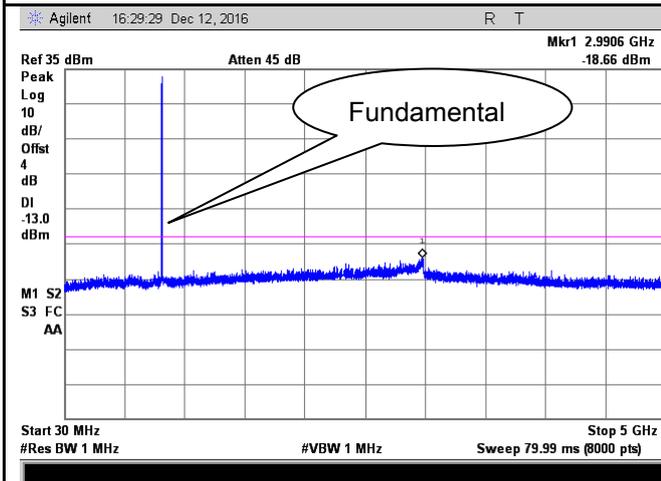
**EGPRS (MCS 5):
Cellular Band (Part 22H) result**



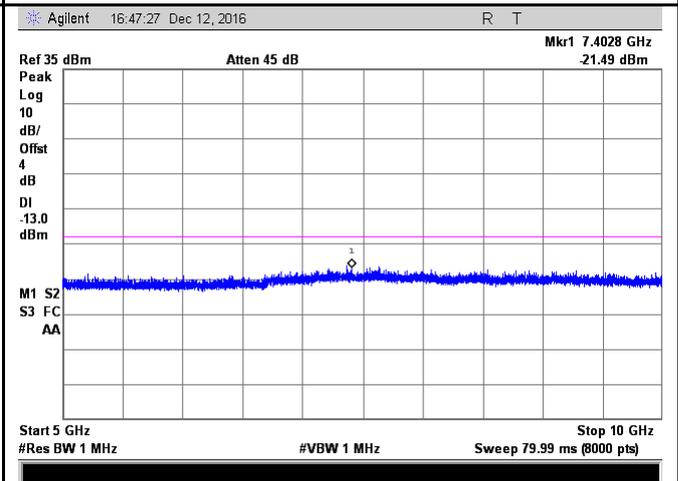
GSM 850 - Low Channel-1



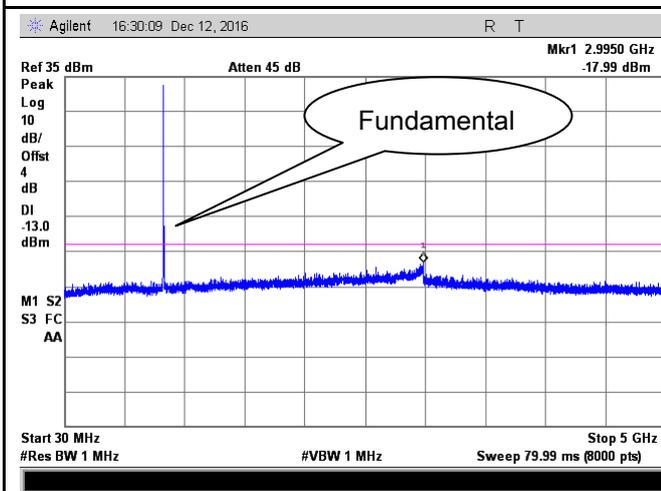
GSM 850 - Low Channel-2



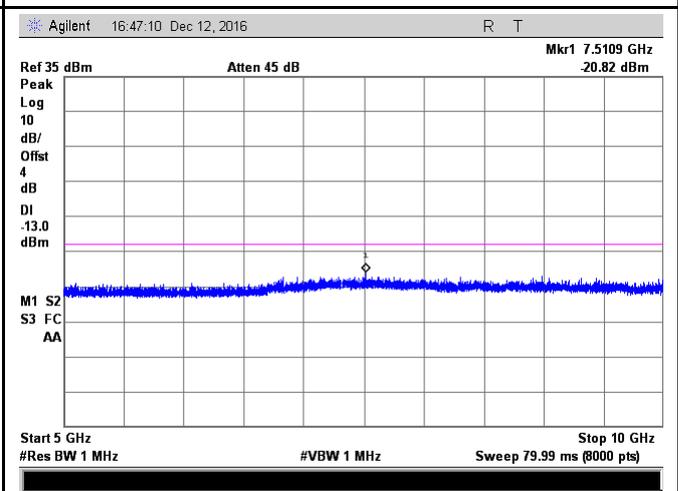
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

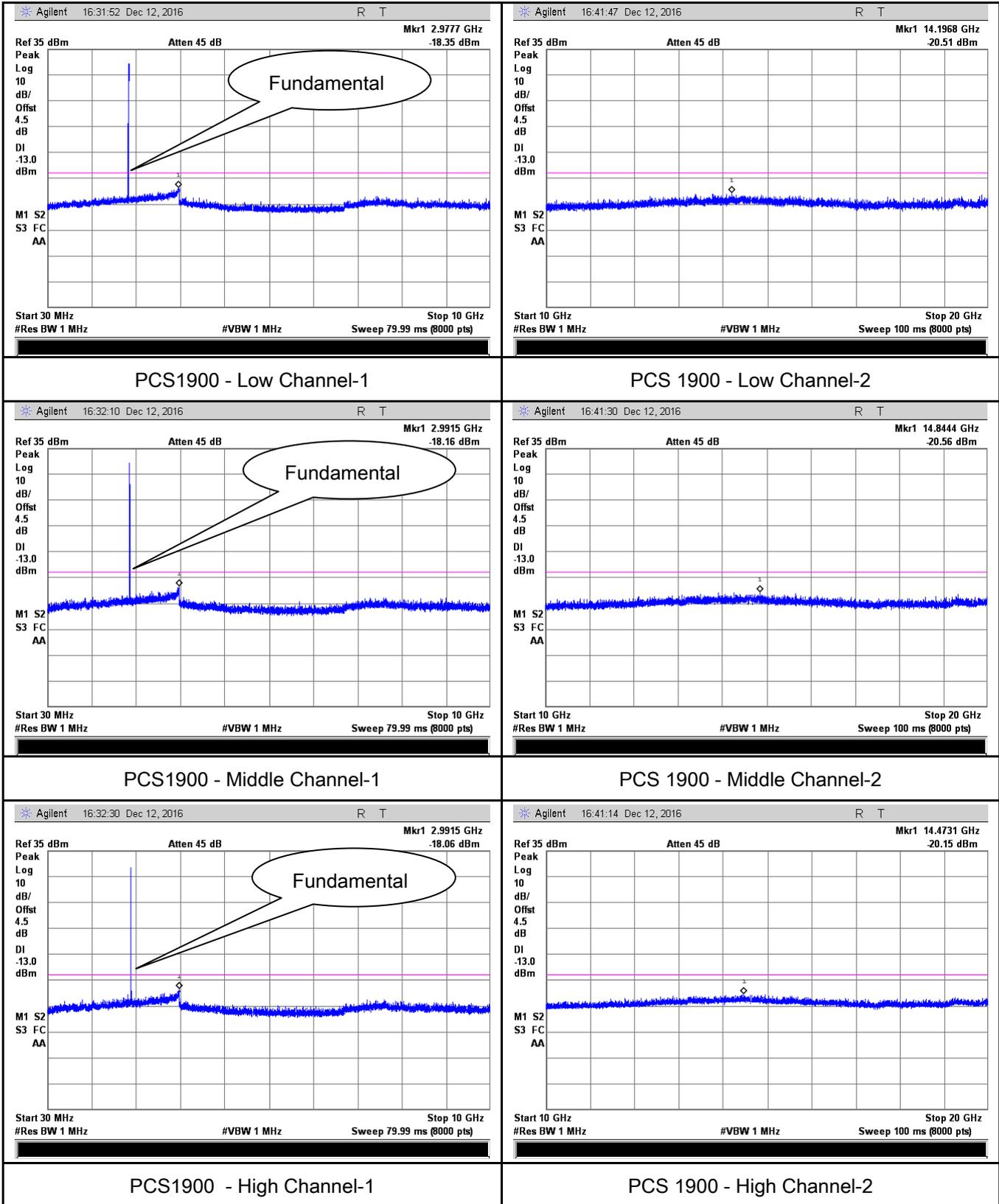


GSM 850 - High Channel-1



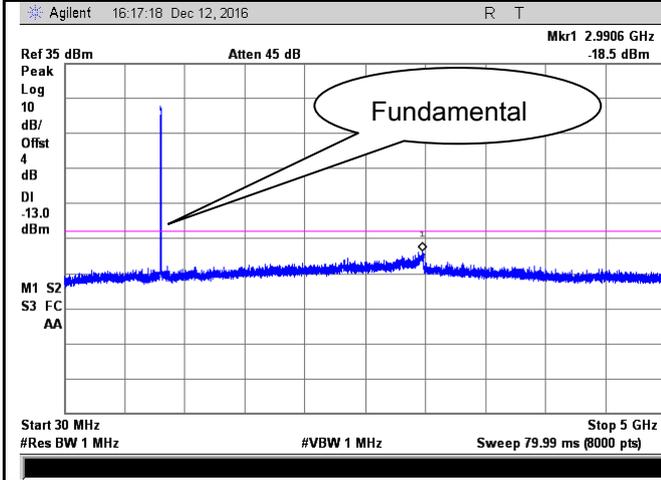
GSM 850 - High Channel-2

PCS Band (Part24E) result

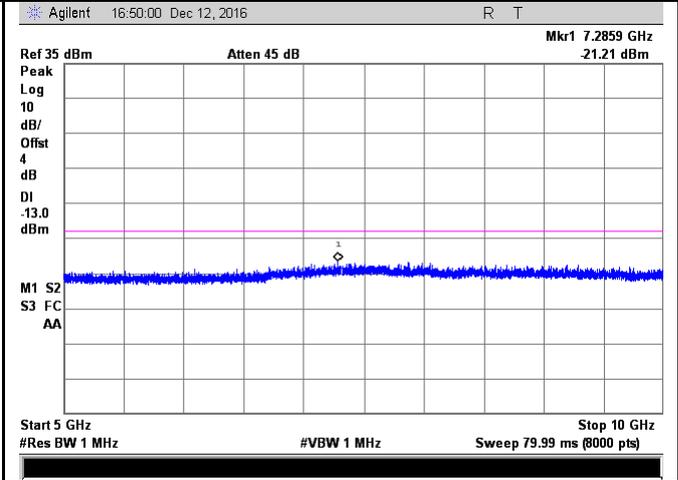


RMC

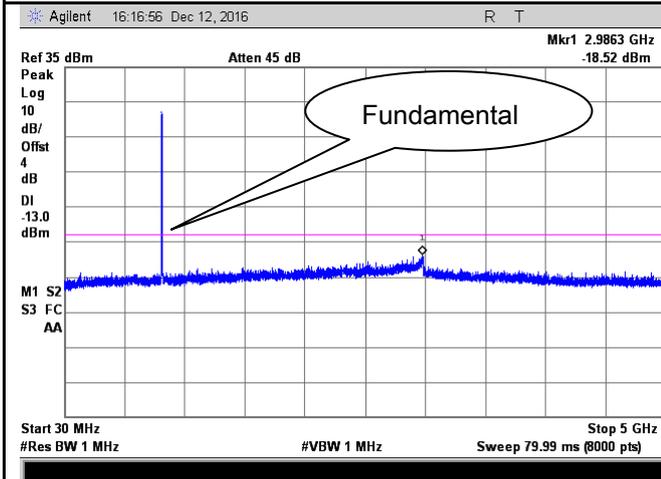
UMTS-FDD Band V (Part 22H)



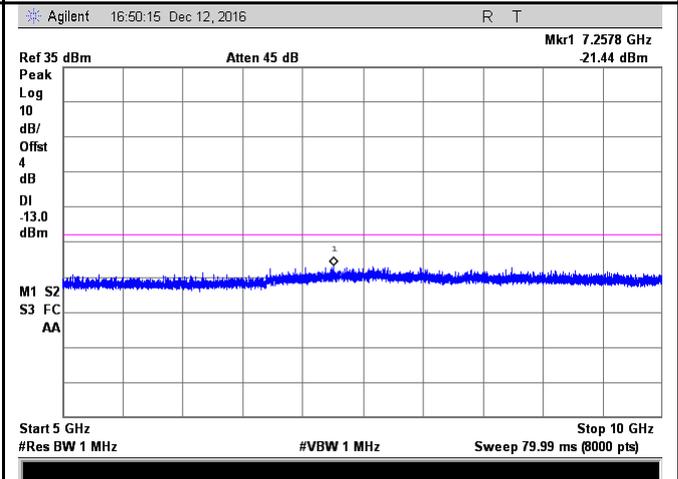
Band V - Low Channel-1



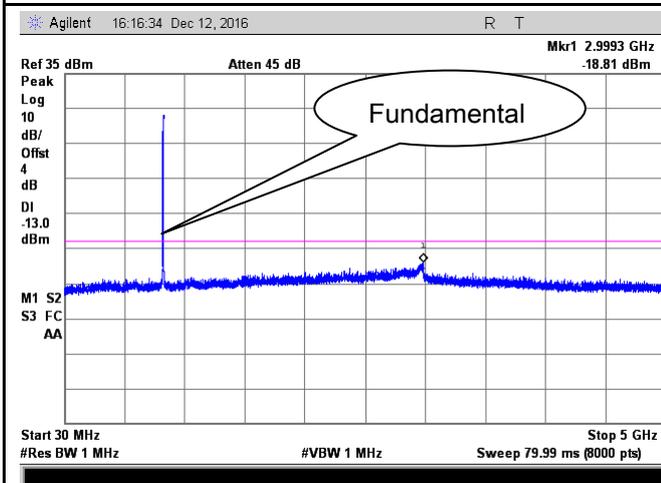
Band V - Low Channel-2



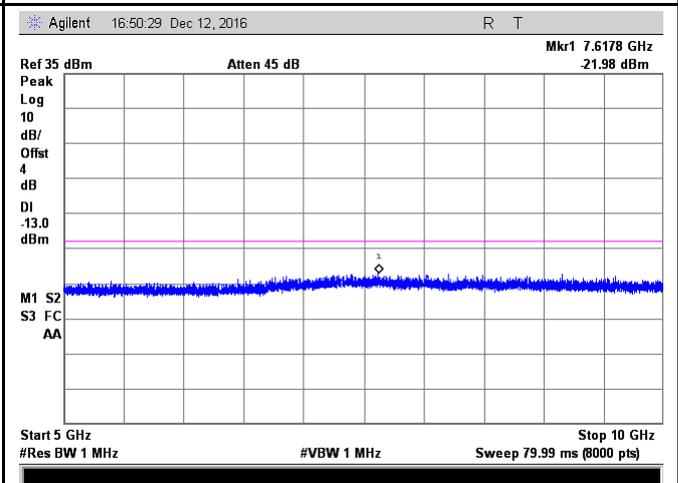
Band V - Middle Channel-1



Band V - Middle Channel-2

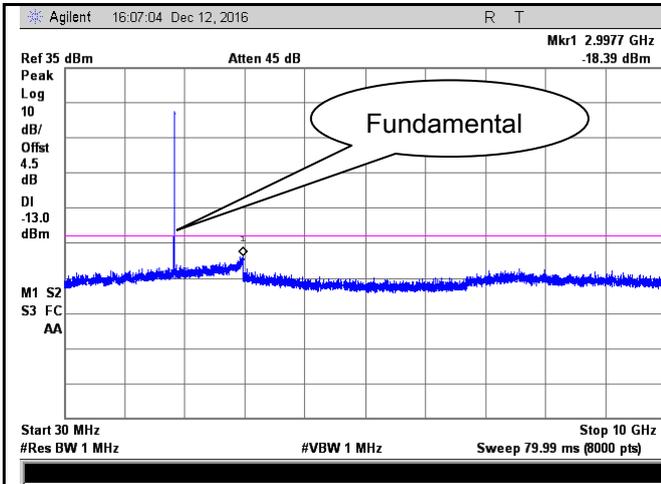


Band V - High Channel-1

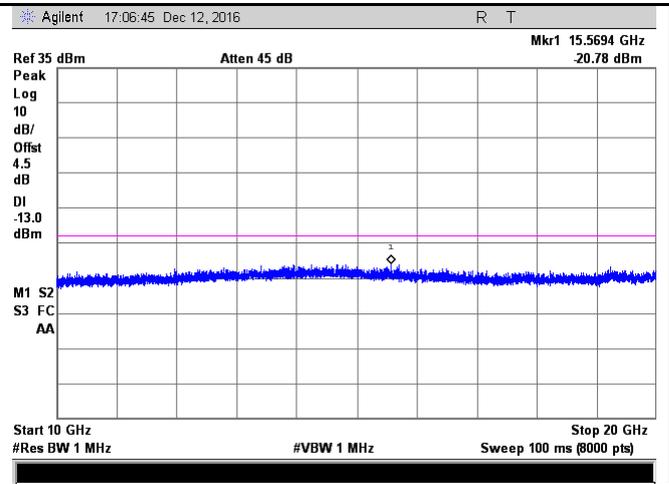


Band V - High Channel-2

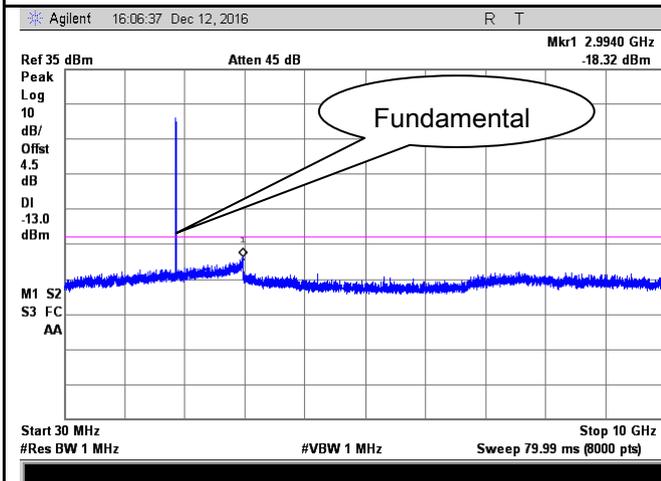
UMTS-FDD Band II (Part 24E)



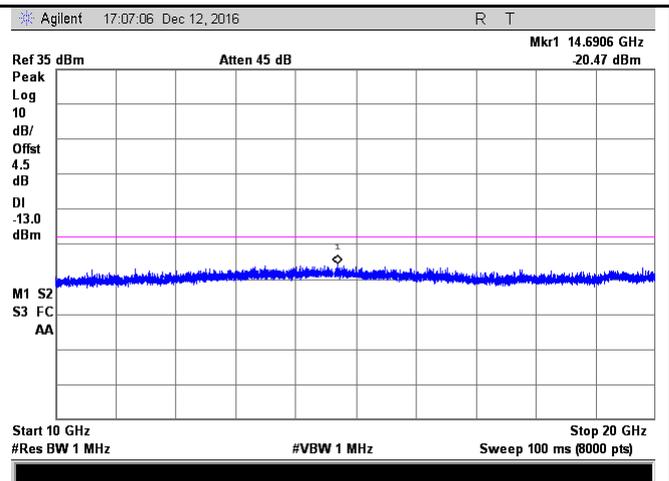
Band II - Low Channel-1



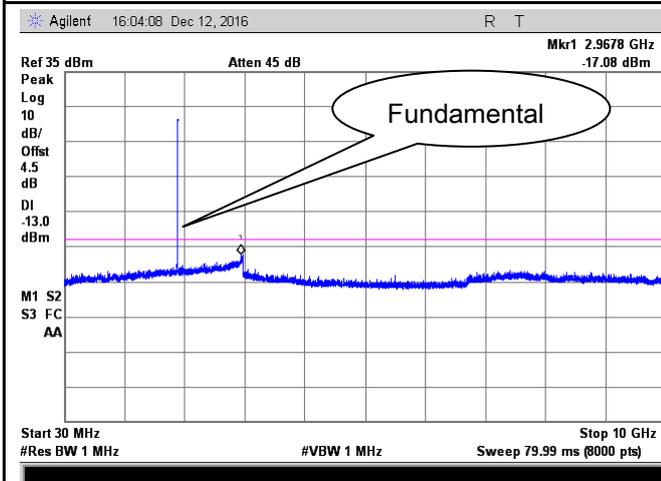
Band II - Low Channel-2



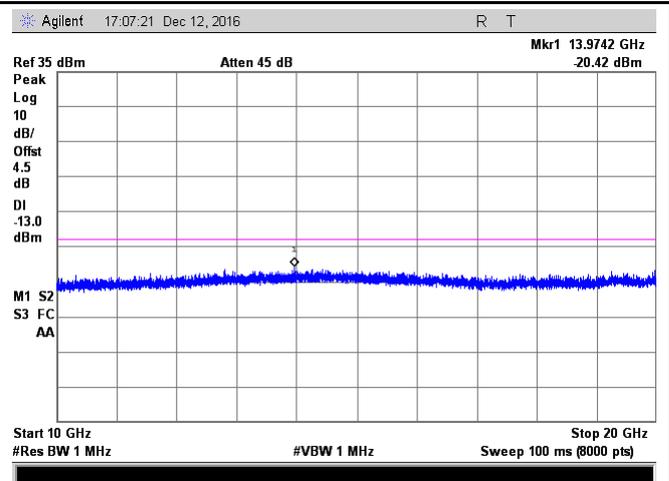
Band II - Middle Channel-1



Band II - Middle Channel-2

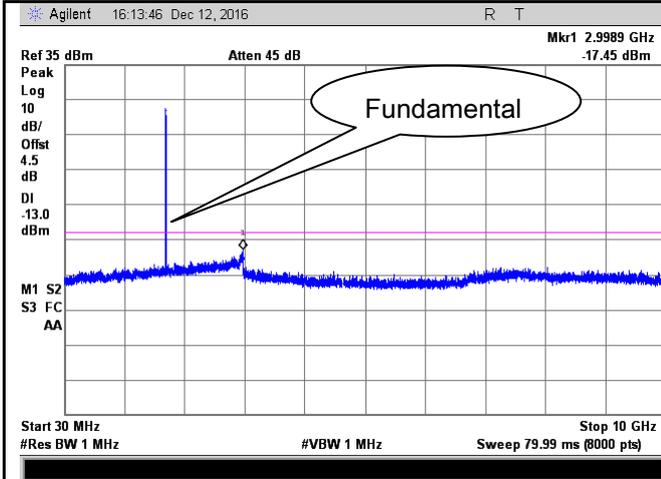


Band II - High Channel-1

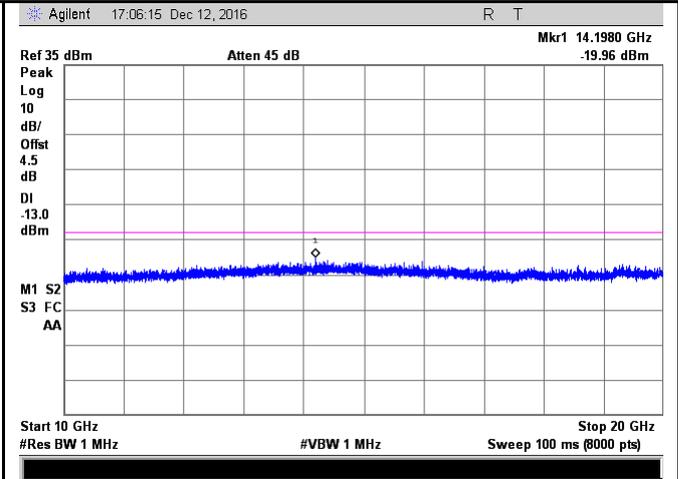


Band II - High Channel-2

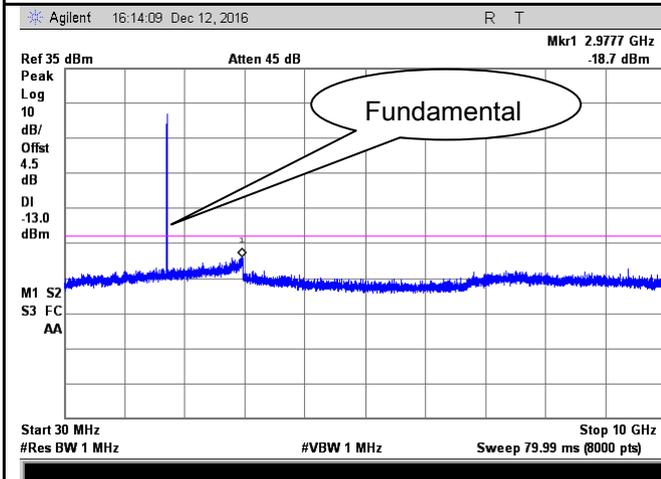
UMTS-FDD Band IV (Part 27)



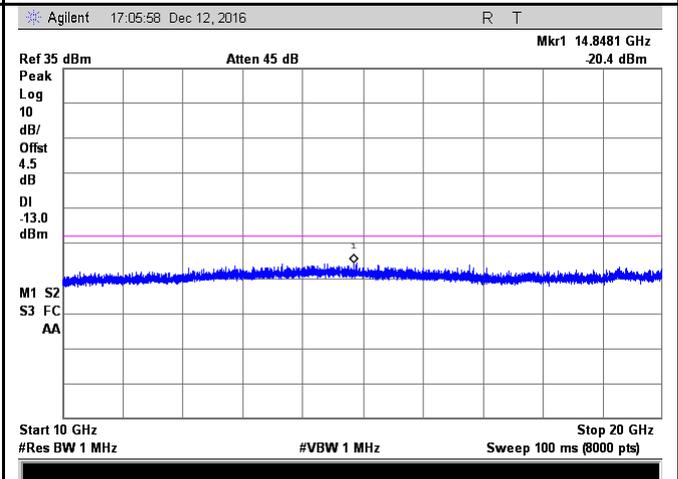
Band IV - Low Channel-1



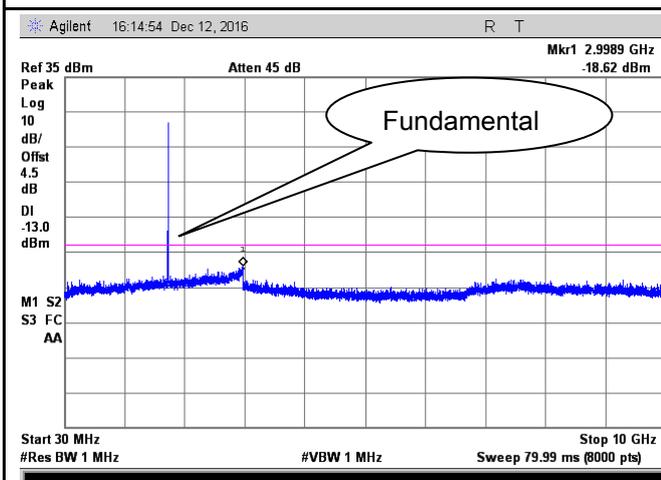
Band IV - Low Channel-2



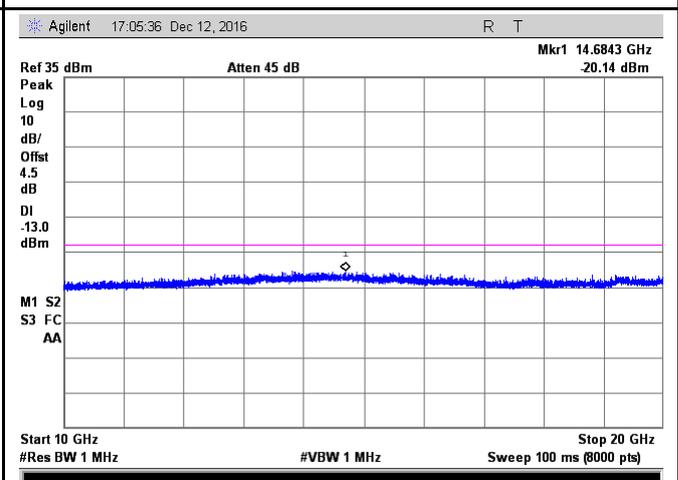
Band IV - Middle Channel-1



Band IV - Middle Channel-2



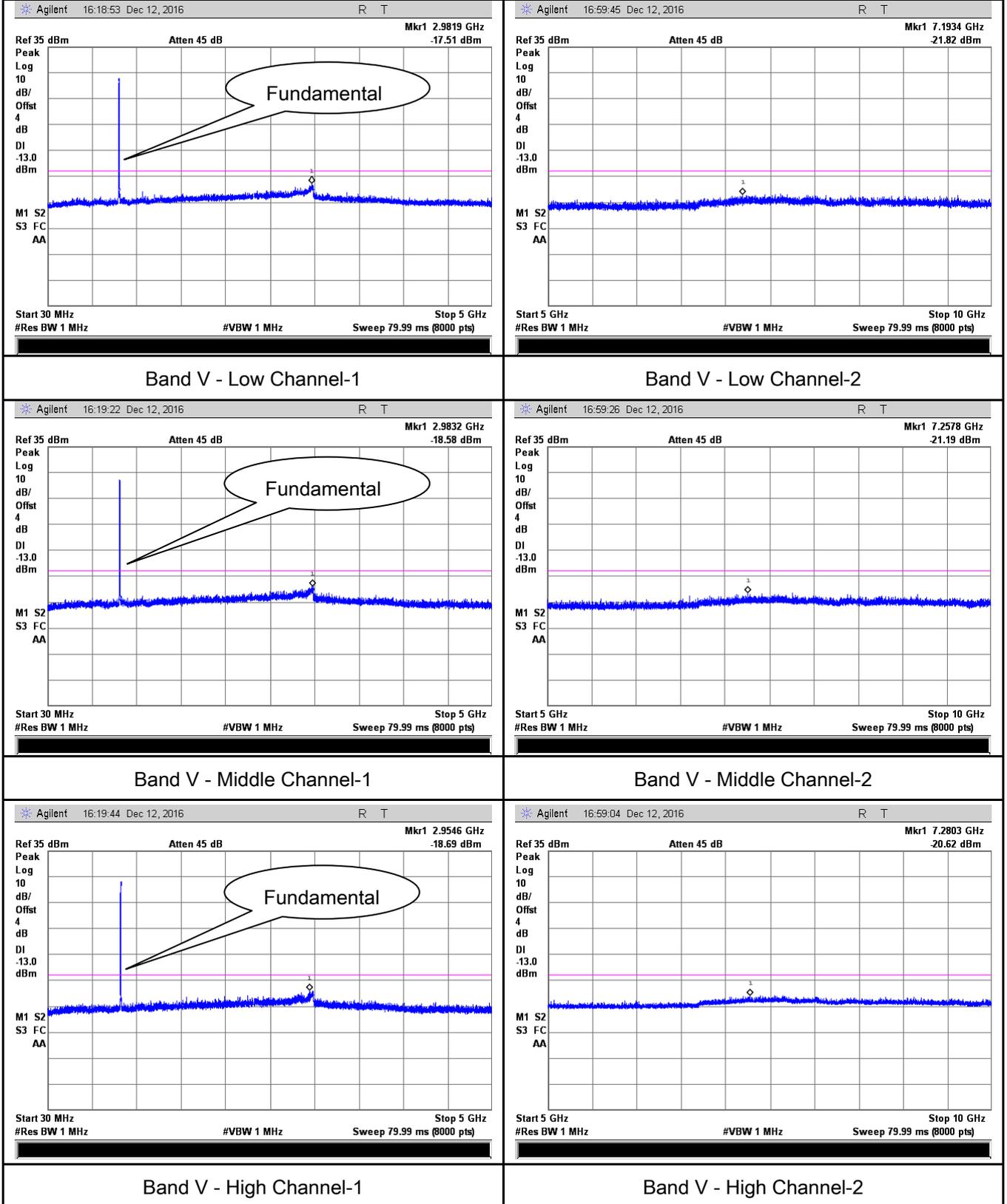
Band IV - High Channel-1



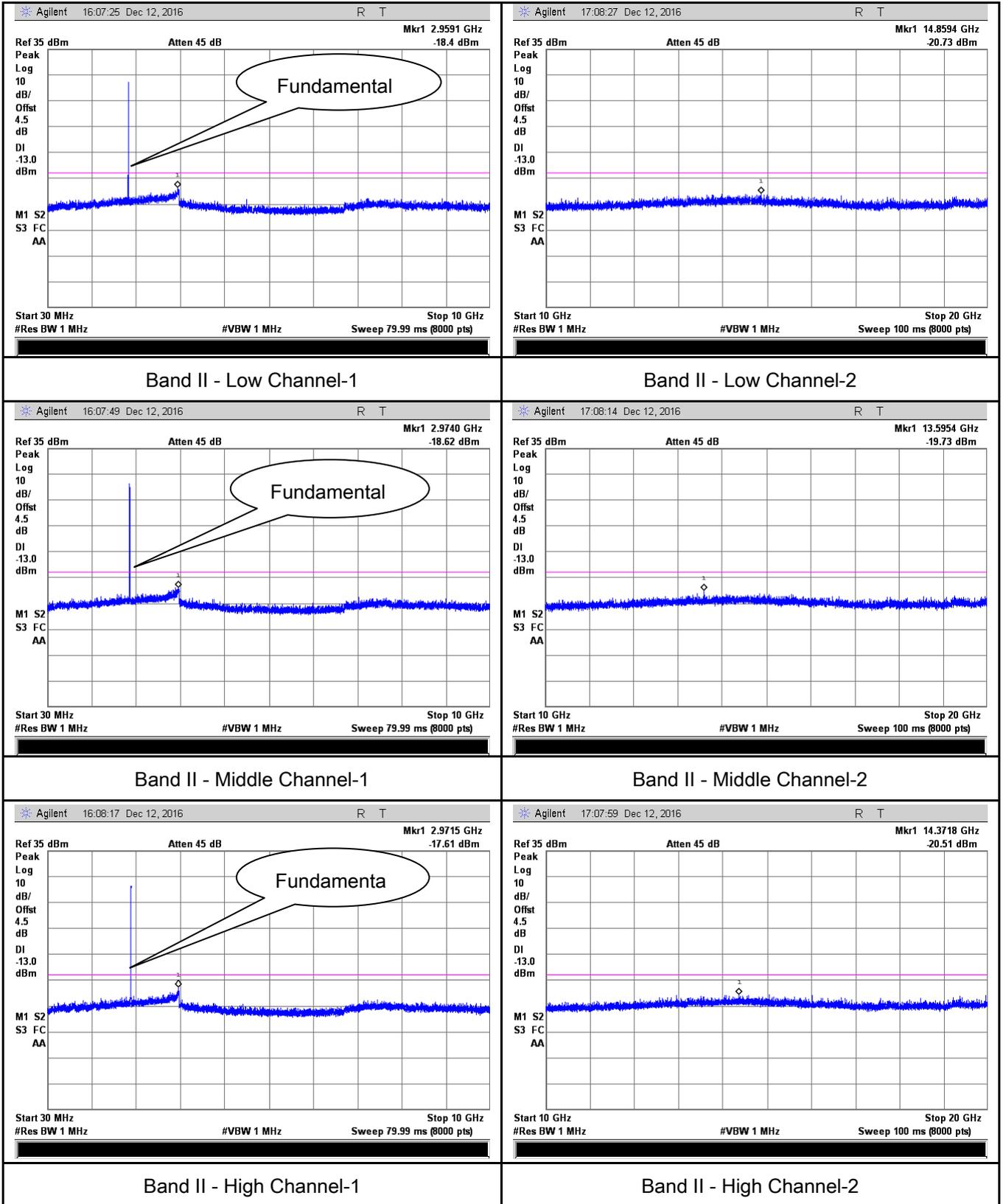
Band IV - High Channel-2

HSUPA:

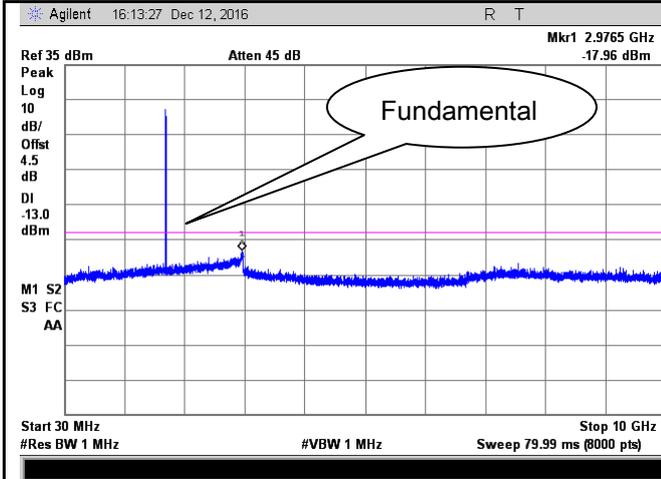
UMTS-FDD Band V (Part 22H)



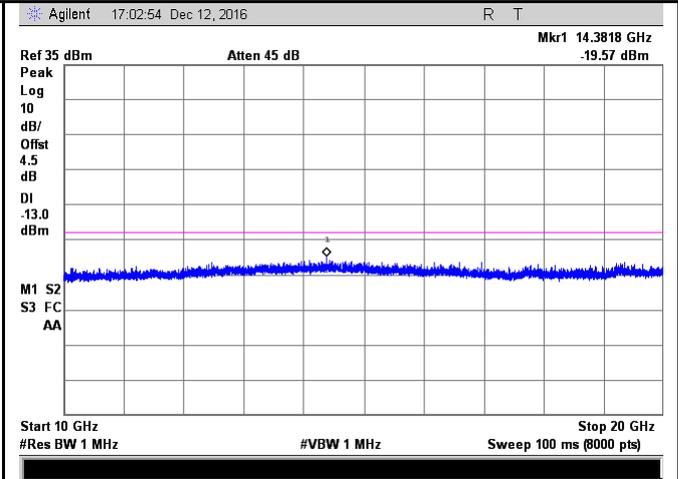
UMTS-FDD Band II (Part 24E)



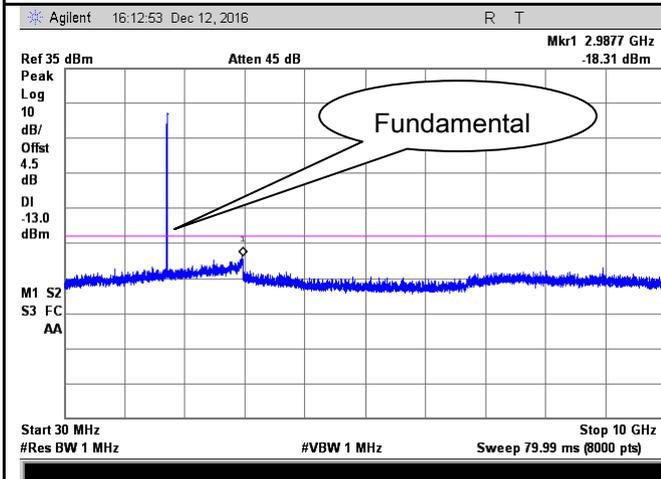
UMTS-FDD Band IV (Part 27)



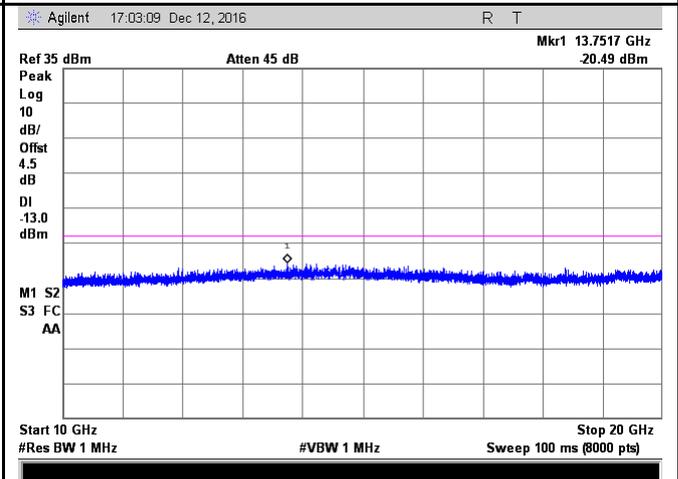
Band IV - Low Channel-1



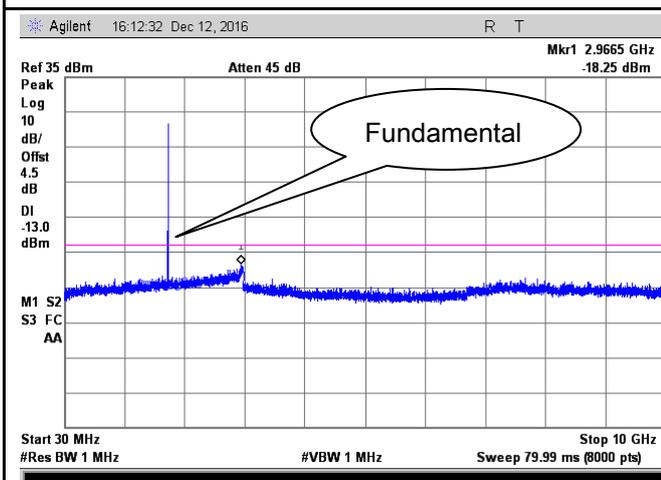
Band IV - Low Channel-2



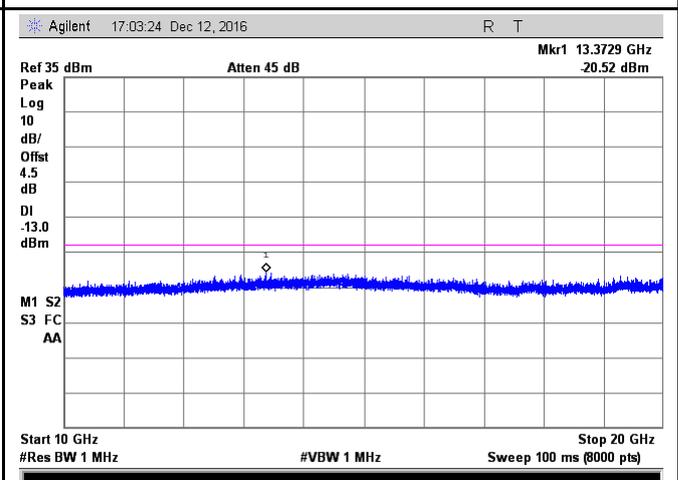
Band IV - Middle Channel-1



Band IV - Middle Channel-2



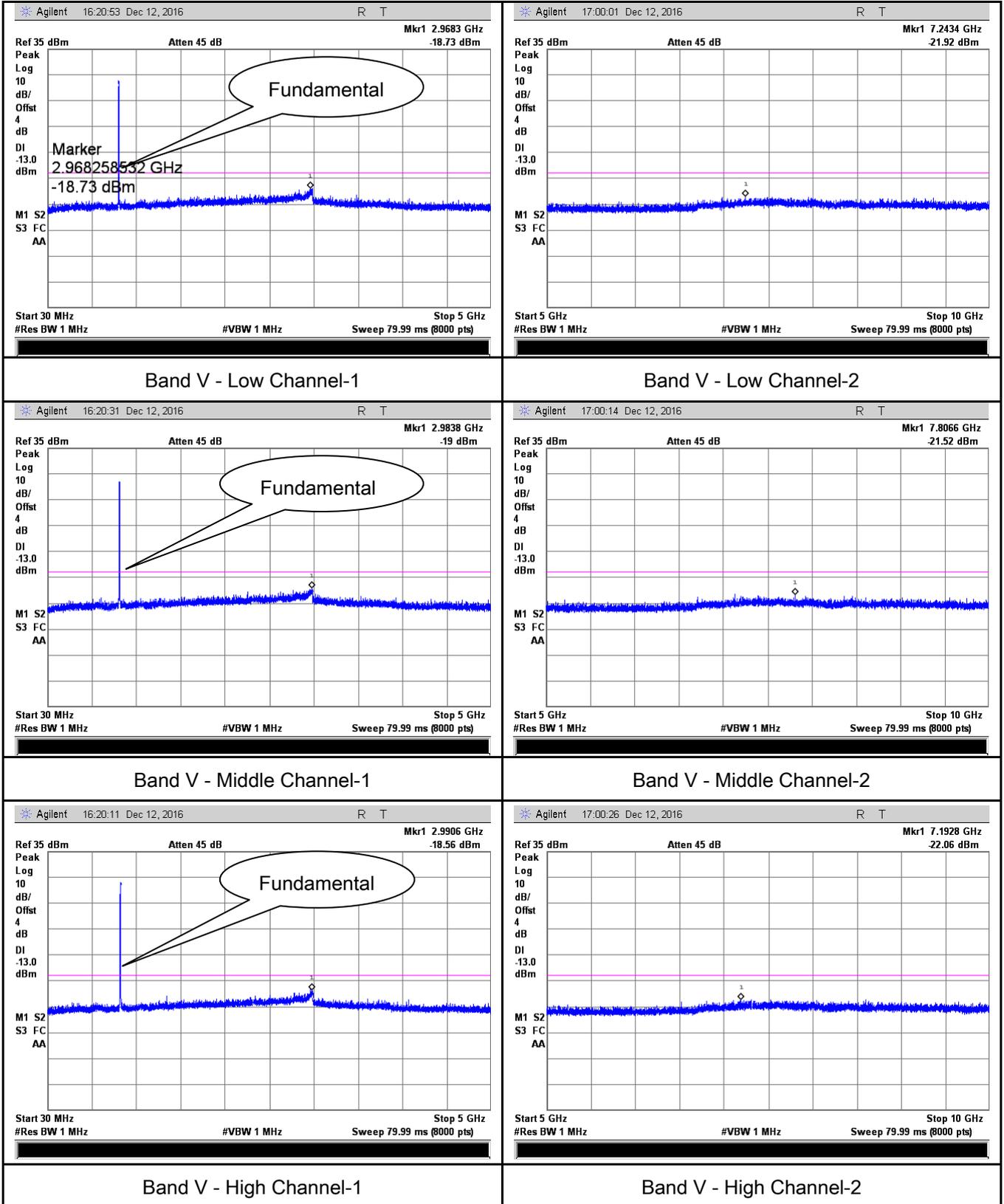
Band IV - High Channel-1



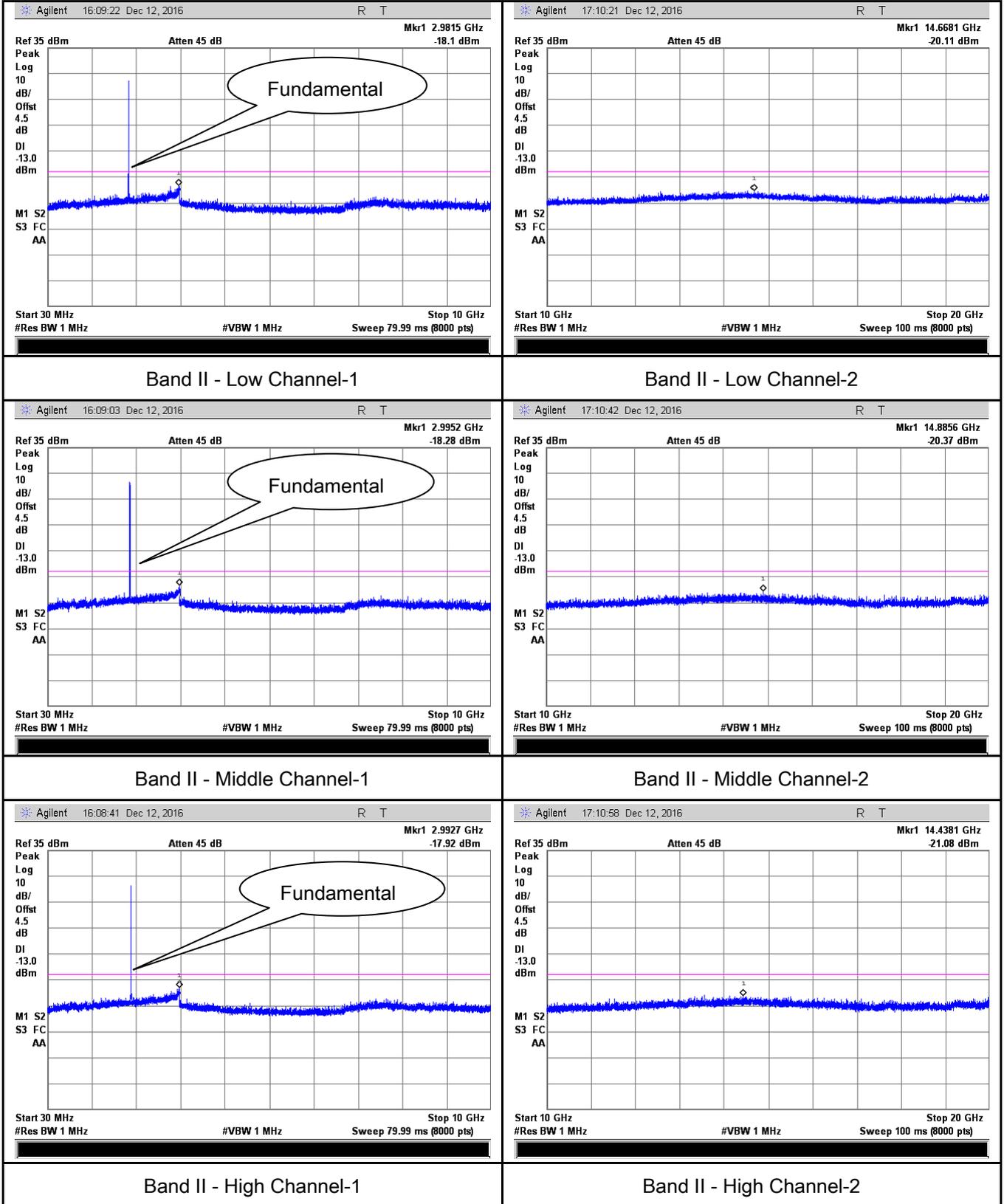
Band IV - High Channel-2

HSDPA:

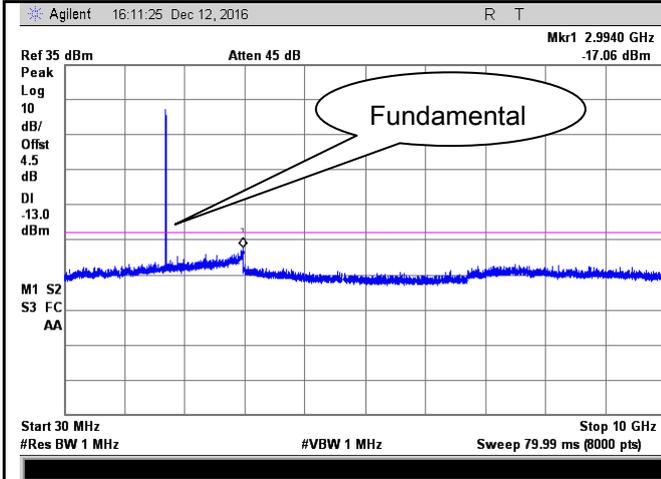
UMTS-FDD Band V (Part 22H)



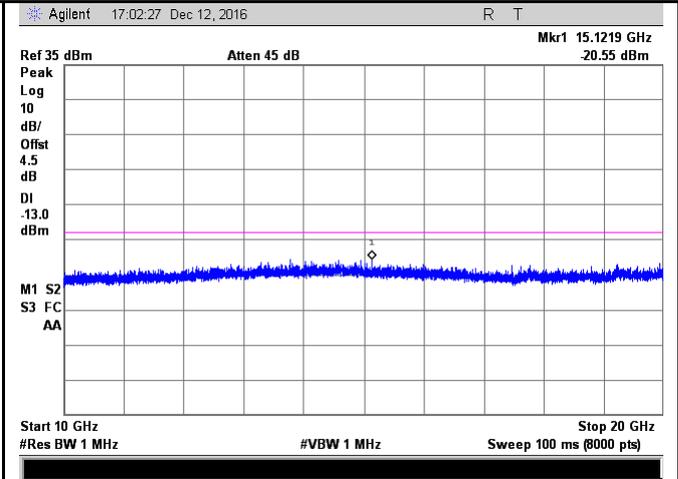
UMTS-FDD Band II (Part 24E)



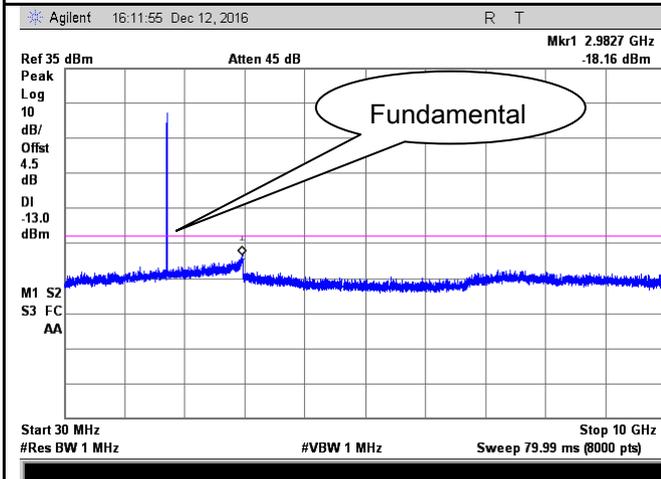
UMTS-FDD Band IV (Part 27)



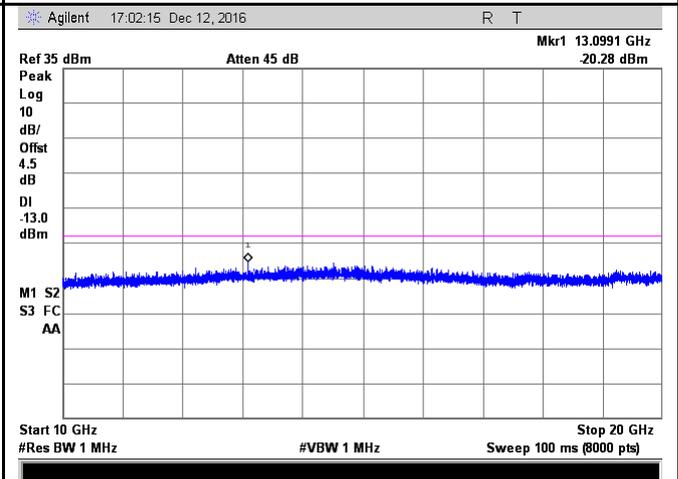
Band IV - Low Channel-1



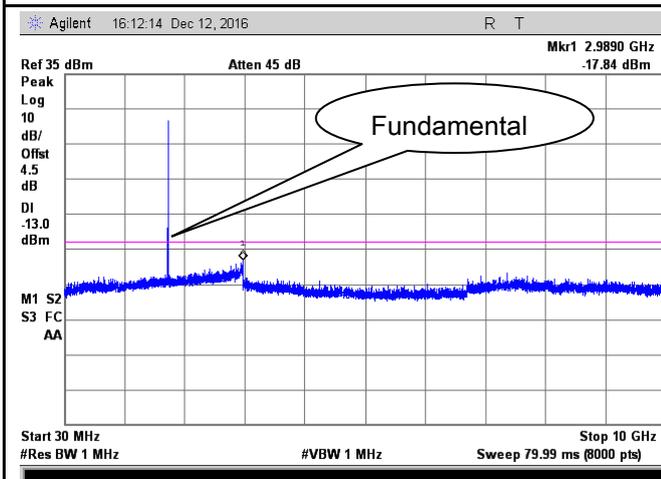
Band IV - Low Channel-2



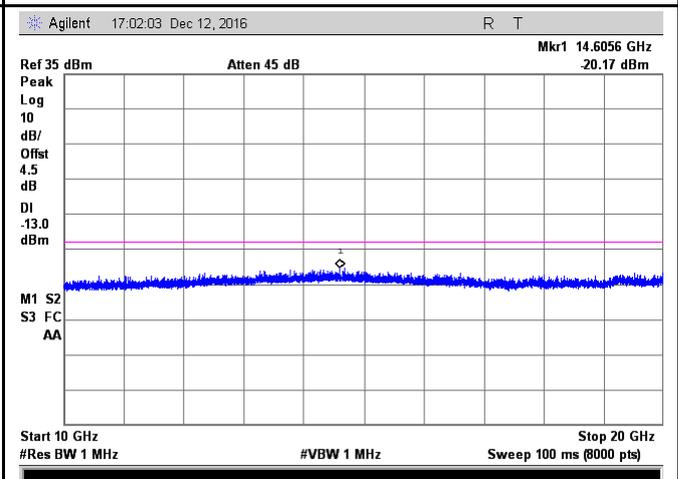
Band IV - Middle Channel-1



Band IV - Middle Channel-2



Band IV - High Channel-1



Band IV - High Channel-2

6.6 Spurious Radiated Emissions

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	Dec 12, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.	<input checked="" type="checkbox"/>

Test setup	
------------	--

Test Procedure	<ol style="list-style-type: none"> The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. Sample Calculation: EUT Field Strength = Raw Amplitude (dBµV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)
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Test Report	16071343-FCC-R1
Page	62 of 98

Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A
Test Plot Yes (See below) N/A

Cellular Band (Part 22H) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-43.62	V	7.95	0.78	-36.45	-13	-23.45
1648.4	-44.28	H	7.95	0.78	-37.11	-13	-24.11
325.8	-52.79	V	6.4	0.26	-46.65	-13	-33.65
604.9	-53.06	H	6.8	0.37	-46.63	-13	-33.63

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-43.57	V	7.95	0.78	-36.4	-13	-23.4
1673.2	-44.16	H	7.95	0.78	-36.99	-13	-23.99
325.9	-52.94	V	6.4	0.26	-46.8	-13	-33.8
606.3	-52.84	H	6.8	0.37	-46.41	-13	-33.41

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-43.58	V	7.95	0.78	-36.41	-13	-23.41
1697.6	-44.03	H	7.95	0.78	-36.86	-13	-23.86
327.4	-52.74	V	6.4	0.26	-46.6	-13	-33.6
604.2	-52.64	H	6.8	0.37	-46.21	-13	-33.21

Note:

- 1, The testing has been conformed to $10 \times 848.8 \text{ MHz} = 8,488 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, GSM voice, GPRS and EGPRS mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

PCS Band (Part24E) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-48.59	V	10.25	2.73	-41.07	-13	-28.07
3700.4	-49.23	H	10.25	2.73	-41.71	-13	-28.71
326.1	-53.47	V	6.4	0.26	-47.33	-13	-34.33
602.7	-54.15	H	6.8	0.37	-47.72	-13	-34.72

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-48.69	V	10.25	2.73	-41.17	-13	-28.17
3760	-49.57	H	10.25	2.73	-42.05	-13	-29.05
325.4	-53.61	V	6.4	0.26	-47.47	-13	-34.47
601.3	-53.82	H	6.8	0.37	-47.39	-13	-34.39

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-48.92	V	10.36	2.73	-41.29	-13	-28.29
3819.6	-49.64	H	10.36	2.73	-42.01	-13	-29.01
329.8	-53.89	V	6.4	0.26	-47.75	-13	-34.75
606.5	-52.09	H	6.8	0.37	-45.66	-13	-32.66

Note:

- 1, The testing has been conformed to $10 \times 1909.8 \text{ MHz} = 19,098 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, GSM voice, GPRS and EGPRS mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-46.85	V	7.95	0.78	-39.68	-13	-26.68
1652.8	-46.27	H	7.95	0.78	-39.1	-13	-26.1
329.7	-53.17	V	6.4	0.26	-47.03	-13	-34.03
605.2	-53.44	H	6.8	0.37	-47.01	-13	-34.01

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-46.63	V	7.95	0.78	-39.46	-13	-26.46
1670	-45.78	H	7.95	0.78	-38.61	-13	-25.61
330.5	-52.49	V	6.4	0.26	-46.35	-13	-33.35
605.4	-53.27	H	6.8	0.37	-46.84	-13	-33.84

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-46.38	V	7.95	0.78	-39.21	-13	-26.21
1693.2	-45.82	H	7.95	0.78	-38.65	-13	-25.65
329.6	-52.67	V	6.4	0.26	-46.53	-13	-33.53
607.5	-53.19	H	6.8	0.37	-46.76	-13	-33.76

Note:

- 1, The testing has been conformed to $10 \times 846.6 \text{ MHz} = 8,466 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-49.33	V	10.25	2.73	-41.81	-13	-28.81
3704.8	-49.65	H	10.25	2.73	-42.13	-13	-29.13
324.7	-53.49	V	6.4	0.26	-47.35	-13	-34.35
605.3	-53.61	H	6.8	0.37	-47.18	-13	-34.18

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-49.57	V	10.25	2.73	-42.05	-13	-29.05
3760	-49.63	H	10.25	2.73	-42.11	-13	-29.11
325.8	-53.46	V	6.4	0.26	-47.32	-13	-34.32
604.7	-53.49	H	6.8	0.37	-47.06	-13	-34.06

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-49.52	V	10.36	2.73	-41.89	-13	-28.89
3815.2	-49.26	H	10.36	2.73	-41.63	-13	-28.63
326.1	-53.67	V	6.4	0.26	-47.53	-13	-34.53
606.9	-54.11	H	6.8	0.37	-47.68	-13	-34.68

Note:

- 1, The testing has been conformed to $10 \times 1907.6 \text{ MHz} = 19,076 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case

UMTS-FDD Band IV (Part 27)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3424.8	-46.27	V	10.07	2.52	-38.72	-13	-25.72
3424.8	-48.26	H	10.07	2.52	-40.71	-13	-27.71
323.5	57.34	V	6.4	0.26	63.48	-13	76.48
739.4	-52.67	H	7.1	0.42	-45.99	-13	-32.99

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3480	-46.39	V	10.09	2.52	-38.82	-13	-25.82
3480	-46.25	H	10.09	2.52	-38.68	-13	-25.68
326.1	-57.31	V	6.4	0.26	-51.17	-13	-38.17
738.5	-53.25	H	7.1	0.42	-46.57	-13	-33.57

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3505.2	-46.12	V	10.09	2.52	-38.55	-13	-25.55
3505.2	-45.38	H	10.09	2.52	-37.81	-13	-24.81
325.4	-57.36	V	6.4	0.26	-51.22	-13	-38.22
736.8	-52.08	H	7.1	0.42	-45.4	-13	-32.4

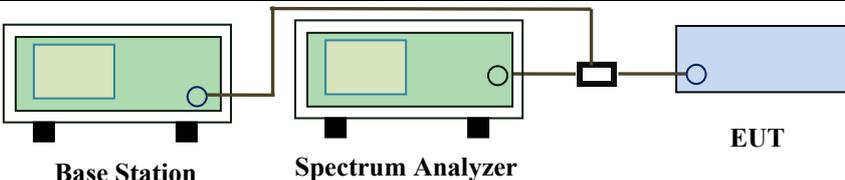
Note:

- 1, The testing has been conformed to $10 \times 1752.6 \text{ MHz} = 17,526 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases.
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

6.7 Band Edge

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	Dec 12, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a) § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.	<input checked="" type="checkbox"/>
Test setup	 <p>The diagram shows a Base Station (green box) connected to a Spectrum Analyzer (green box) and an EUT (blue box) via a power divider (black box). The Base Station and Spectrum Analyzer are connected to each other, and the power divider is connected to both the Spectrum Analyzer and the EUT.</p>		
Procedure	<ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100. 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A

Test Plot Yes (See below) N/A

GSM Voice:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9975	-14.47	-13
849.0025	-16.09	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-18.03	-13
1910.0200	-20.80	-13

GPRS:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9775	-16.72	-13
849.0200	-15.65	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9850	-19.06	-13
1910.0200	-20.41	-13

EGPRS (MCS5):

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9850	-14.82	-13
849.0225	-16.41	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9800	-20.20	-13
1910.0175	-20.77	-13

RCM:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.975	-18.88	-13
849.300	-21.26	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.975	-22.10	-13
1910.200	-18.42	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.975	-23.32	-13
1755.275	-22.96	-13

HSUPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.975	-20.05	-13
849.250	-21.40	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.975	-22.30	-13
1910.350	-18.63	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.975	-22.76	-13
1755.025	-23.12	-13

HSDPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.975	-19.09	-13
849.225	-19.71	-13

UMTS-FDD Band II (Part 24E)

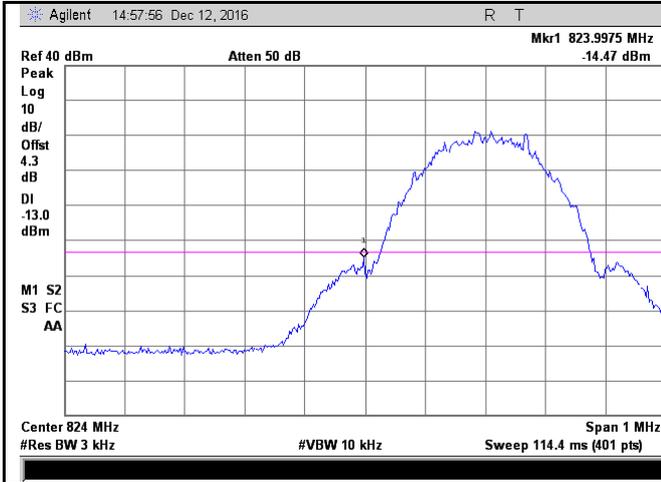
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.975	-21.97	-13
1910.350	-18.12	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.975	-22.62	-13
1755.025	-23.81	-13

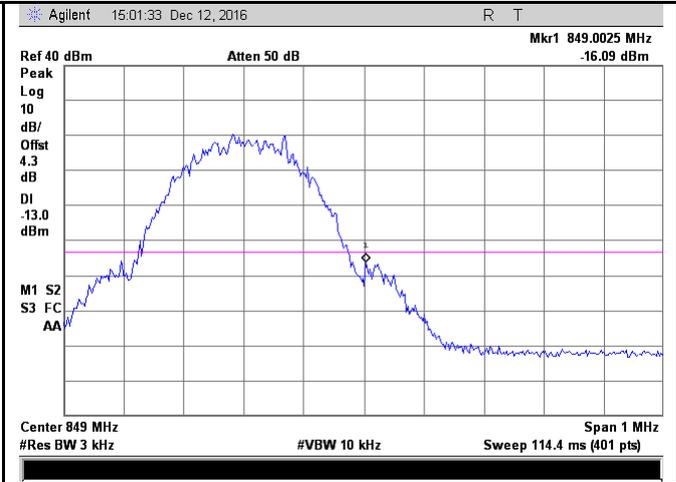
GSM Voice:

Test Plots



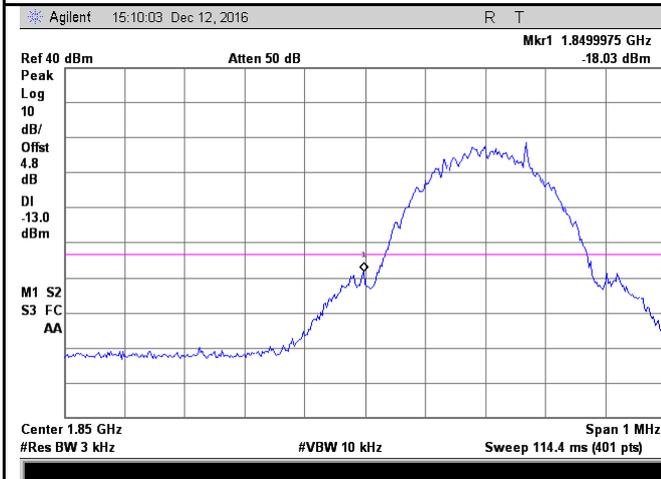
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.18/3)=4.0+0.3=4.3dB



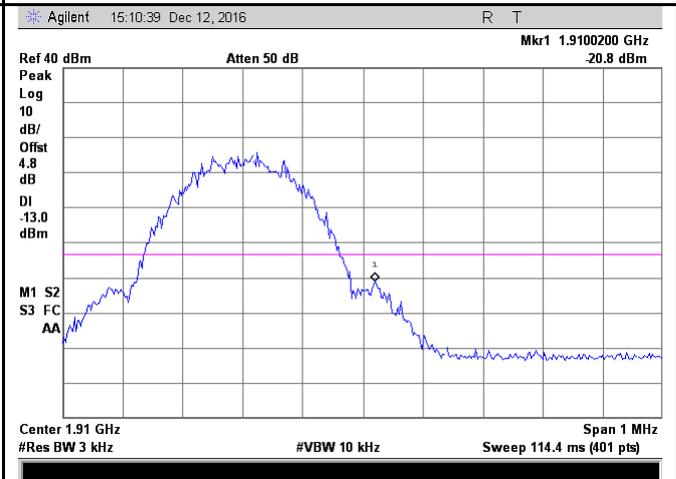
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.21/3)=4.0+0.3=4.3dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.20/3)=4.5+0.3=4.8dB



PCS Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.24/3)=4.5+0.3=4.8dB

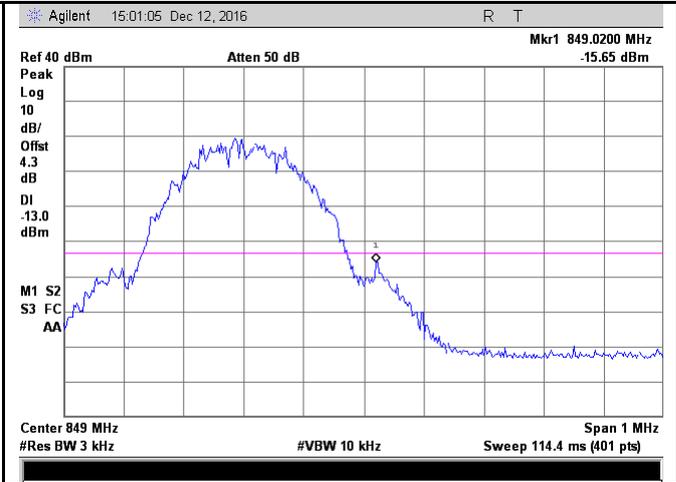
GPRS:

Test Plots



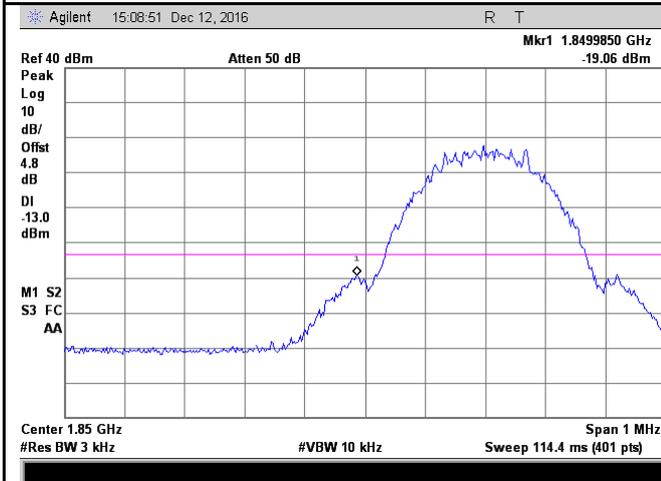
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.22/3)=4.0+0.3=4.3dB



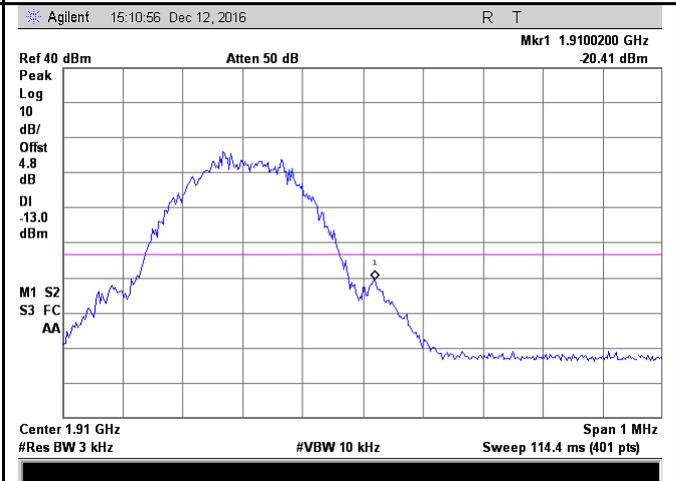
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.19/3)=4.0+0.3=4.3dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(3.19/3)=4.5+0.3=4.8dB



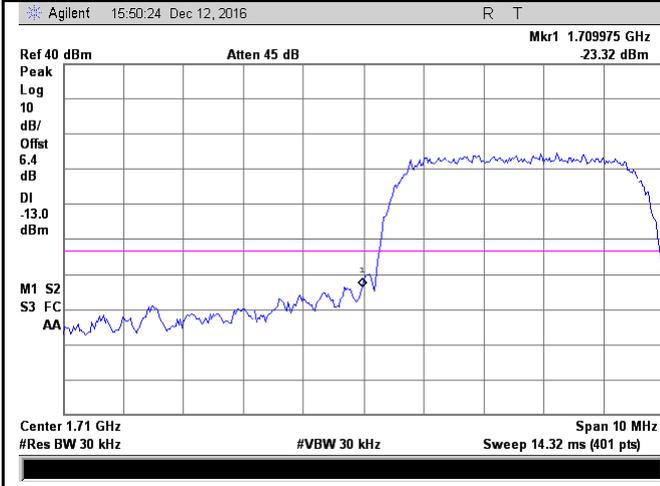
PCS Band - High Channel

Note: Offset=Cable loss (4.5) + 10log
(3.24/3)=4.5+0.3=4.8dB

EGPRS (MCS5):

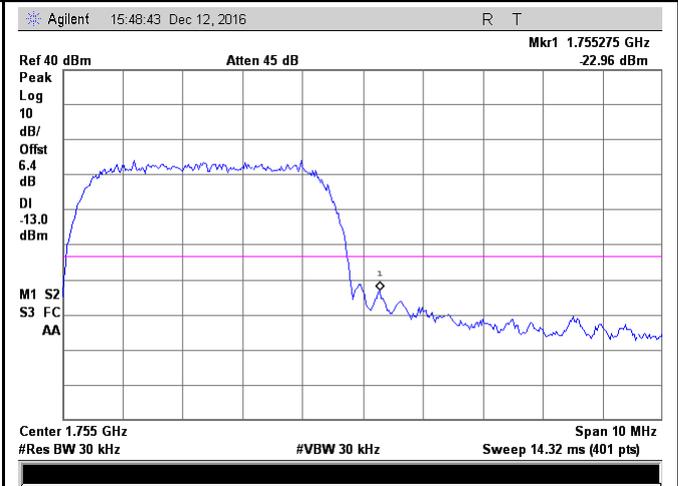
Test Plots

<p>Agilent 14:59:42 Dec 12, 2016 R T</p>	<p>Agilent 15:00:47 Dec 12, 2016 R T</p>
<p>Cellular Band - Low Channel</p>	<p>Cellular Band - High Channel</p>
<p>Note: Offset=Cable loss (4.0) + 10log (3.18/3)=4.0+0.3=4.3dB</p>	<p>Note: Offset=Cable loss (4.0) + 10log (3.19/3)=4.0+0.3=4.3dB</p>
<p>Agilent 15:07:48 Dec 12, 2016 R T</p>	<p>Agilent 15:12:25 Dec 12, 2016 R T</p>
<p>PCS Band - Low Channel</p>	<p>PCS Band - High Channel</p>
<p>Note: Offset=Cable loss (4.5) + 10log (3.24/3)=4.5+0.3=4.8dB</p>	<p>Note: Offset=Cable loss (4.5) + 10log (3.22/3)=4.5+0.3=4.8dB</p>



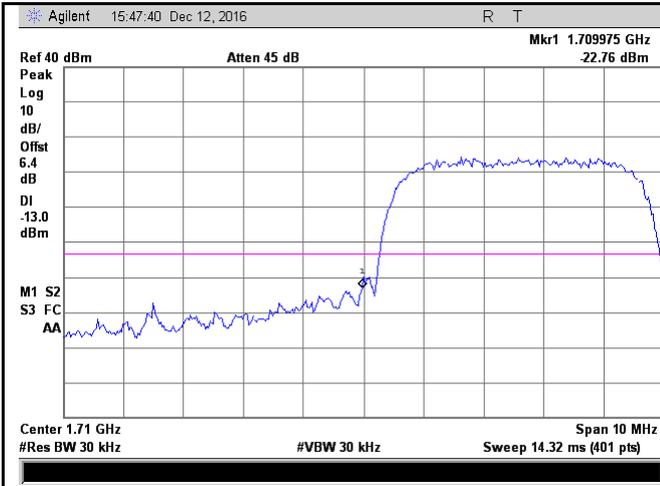
UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log
 (4.672/30)=4.5+1.9=6.4dB



UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.0) + 10log
 (4.683/30)=4.5+1.9=6.4 dB



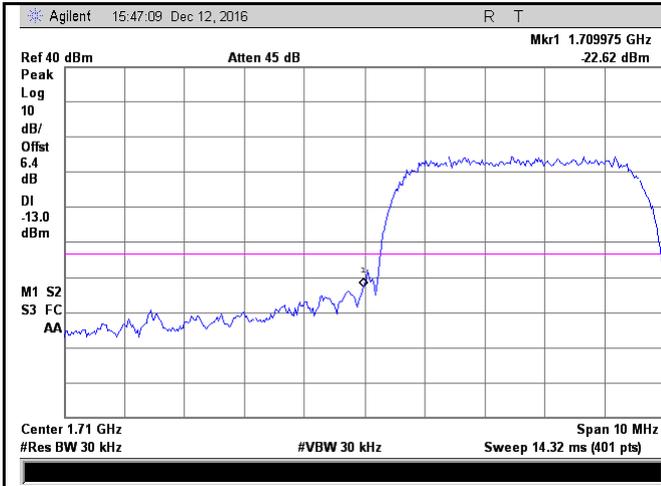
UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log
 (4.693/30)=4.5+1.9=6.4dB



UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.5) + 10log
 (4.685/30)=4.5+1.9=6.4dB



UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log
 (4.477/30)=4.5+1.9=6.4dB



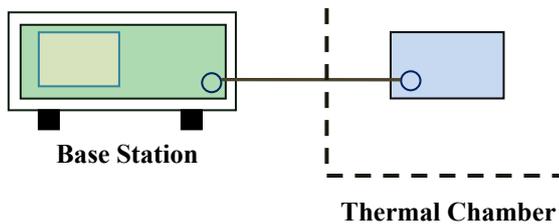
UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.5) + 10log
 (4.672/30)=4.5+1.9=6.4 dB

6.8 Frequency Stability

Temperature	25 °C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	Dec 08, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable																																
§2.1055, §22.355 & §24.235 § 27.5(h); § 27.54	a)	According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below: Frequency Tolerance for Transmitters in the Public Mobile Services	<input checked="" type="checkbox"/>																																
		<table border="1"> <thead> <tr> <th>Frequency Range (MHz)</th> <th>Base, fixed (ppm)</th> <th>Mobile ≤ 3 watts (ppm)</th> <th>Mobile ≤ 3 watts (ppm)</th> </tr> </thead> <tbody> <tr> <td>25 to 50</td> <td>20.0</td> <td>20.0</td> <td>50.0</td> </tr> <tr> <td>50 to 450</td> <td>5.0</td> <td>5.0</td> <td>50.0</td> </tr> <tr> <td>45 to 512</td> <td>2.5</td> <td>5.0</td> <td>.0</td> </tr> <tr> <td>821 to 896</td> <td>1.5</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>928 to 29.</td> <td>5.0</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>929 to 960.</td> <td>1.5</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>2110 to 2220</td> <td>10.0</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>		Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)	25 to 50	20.0	20.0	50.0	50 to 450	5.0	5.0	50.0	45 to 512	2.5	5.0	.0	821 to 896	1.5	2.5	2.5	928 to 29.	5.0	N/A	N/A	929 to 960.	1.5	N/A	N/A	2110 to 2220	10.0	N/A	N/A
		Frequency Range (MHz)		Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)																													
		25 to 50		20.0	20.0	50.0																													
		50 to 450		5.0	5.0	50.0																													
		45 to 512		2.5	5.0	.0																													
		821 to 896		1.5	2.5	2.5																													
		928 to 29.		5.0	N/A	N/A																													
929 to 960.	1.5	N/A	N/A																																
2110 to 2220	10.0	N/A	N/A																																
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.																																			
 <p>The diagram shows a green rectangular box labeled 'Base Station' on the left, connected by a line to a blue rectangular box labeled 'Thermal Chamber' on the right. The Thermal Chamber is enclosed in a dashed-line box.</p>																																			
Test setup																																			

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Procedure	<p>A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.</p> <p>Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

GSM Voice:

Cellular Band (Part 22H) result

Middle Channel, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	19	0.0227	2.5
0		14	0.0167	2.5
10		15	0.0179	2.5
20		15	0.0179	2.5
30		15	0.0179	2.5
40		16	0.0191	2.5
50		19	0.0227	2.5
55		18	0.0215	2.5
25	4.2	18	0.0215	2.5
	3.5	19	0.0227	2.5

PCS Band (Part 24E) result

Middle Channel, $f_0 = 1880$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	13	0.0069	2.5
0		14	0.0074	2.5
10		14	0.0074	2.5
20		15	0.0080	2.5
30		17	0.0090	2.5
40		16	0.0085	2.5
50		14	0.0074	2.5
55		15	0.0080	2.5
25	4.2	16	0.0085	2.5
	3.5	19	0.0101	2.5

RMC:

UMTS-FDD Band V (Part 22H)

Middle Channel, $f_0 = 835$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	11	0.0132	2.5
0		9	0.0108	2.5
10		11	0.0132	2.5
20		13	0.0156	2.5
30		15	0.0180	2.5
40		12	0.0144	2.5
50		21	0.0251	2.5
55		16	0.0192	2.5
25	4.2	16	0.0192	2.5
	3.5	17	0.0204	2.5

UMTS-FDD Band II (Part 24E)

Middle Channel, $f_0 = 1880$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	16	0.0085	2.5
0		16	0.0085	2.5
10		17	0.0090	2.5
20		11	0.0059	2.5
30		9	0.0048	2.5
40		10	0.0053	2.5
50		11	0.0059	2.5
55		12	0.0064	2.5
25	4.2	14	0.0074	2.5
	3.5	16	0.0085	2.5

UMTS-FDD Band IV (Part 27)

Middle Channel, $f_0 = 1733$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	16	0.0192	2.5
0		15	0.0180	2.5
10		11	0.0132	2.5
20		14	0.0168	2.5
30		14	0.0168	2.5
40		9	0.0108	2.5
50		15	0.0180	2.5
55		12	0.0144	2.5
25		4.2	8	0.0096
	3.5	16	0.0192	2.5

Annex A. TEST INSTRUMENT

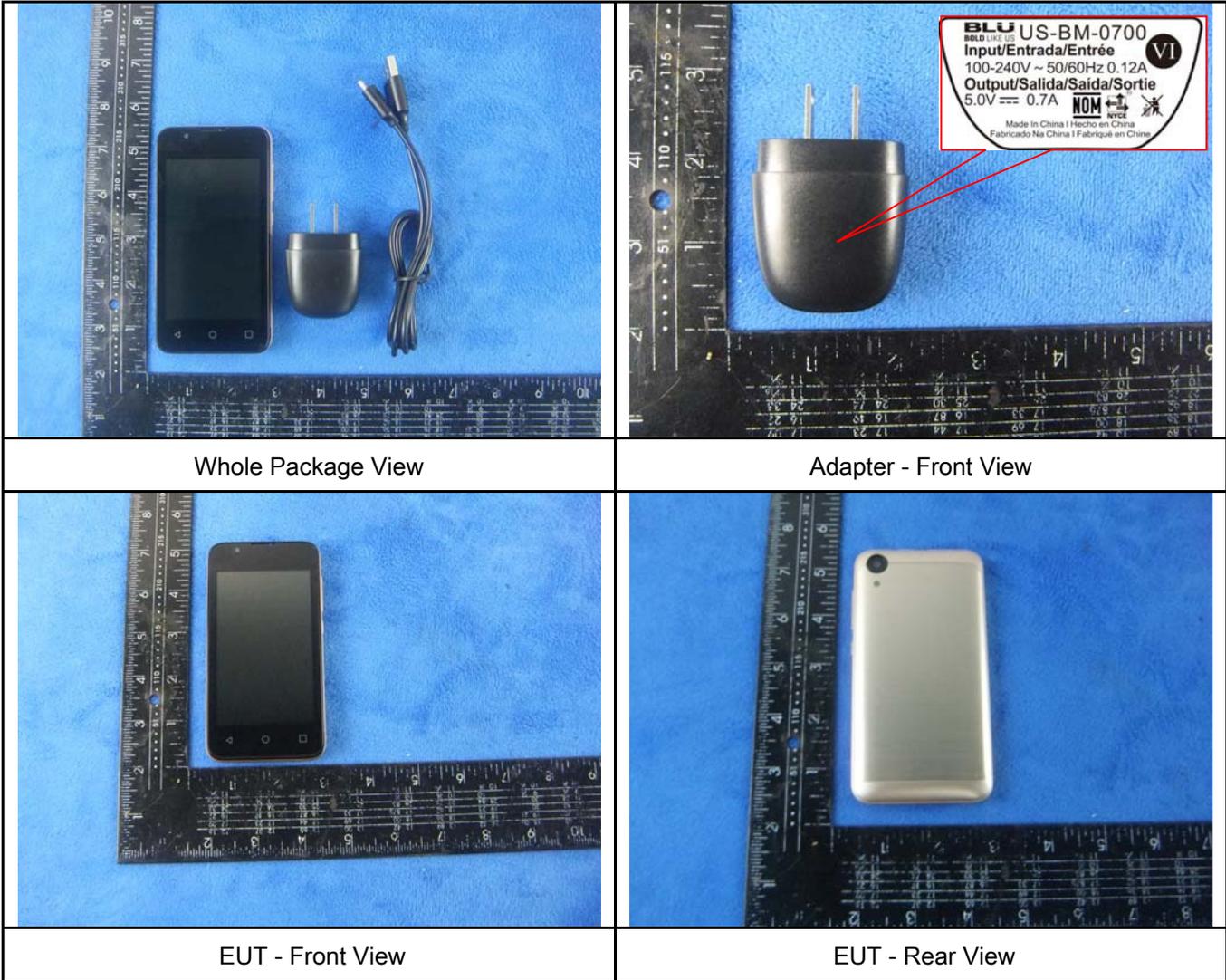
Instrument	Model	Serial #	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/15/2016	09/14/2017	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Temperature/Humidity Chamber	UHL-270	001	10/08/2016	10/07/2017	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
RF Power Sensor	Dare RPR3006C/P/W	AY554013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Power Amplifier	SMC150D	R1553-0313	03/09/2016	03/08/2017	<input checked="" type="checkbox"/>
Power Amplifier	S41-25D	R1553-0314	05/27/2016	05/26/2017	<input checked="" type="checkbox"/>
Tunable Notch Filter	3NF-800/1000-S	AA4	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>

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Tunable Notch Filter	3NF- 1000/2000-S	AM 4	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





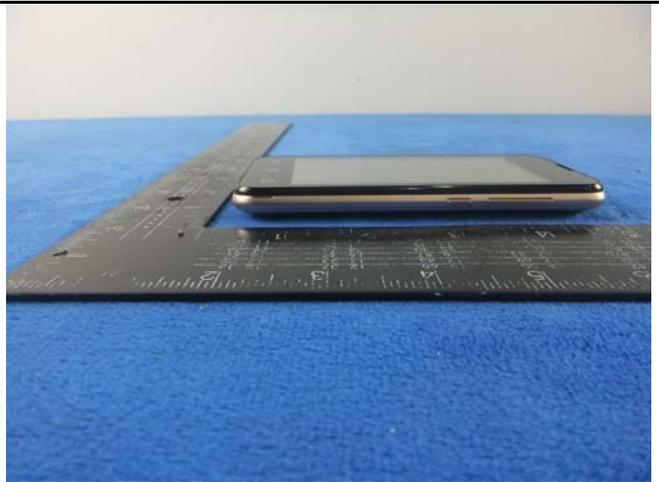
EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View

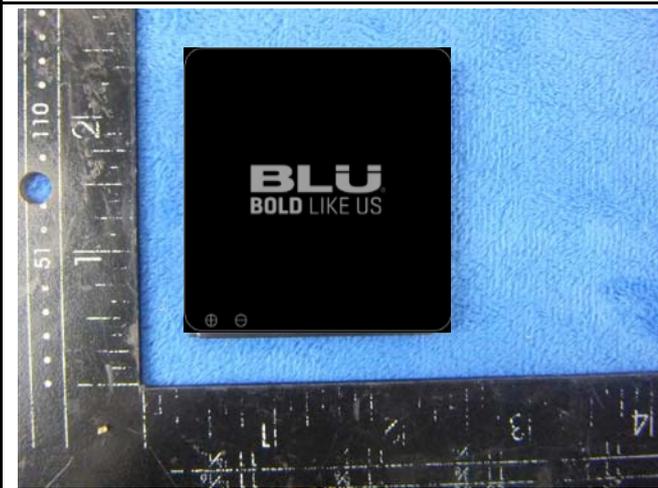
Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1



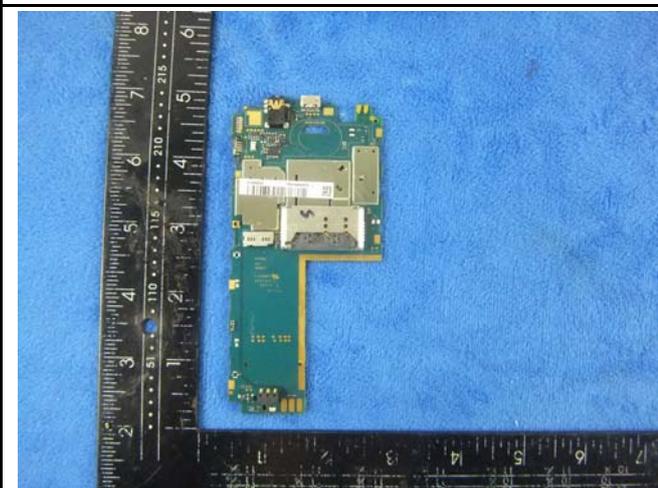
Cover Off - Top View 2



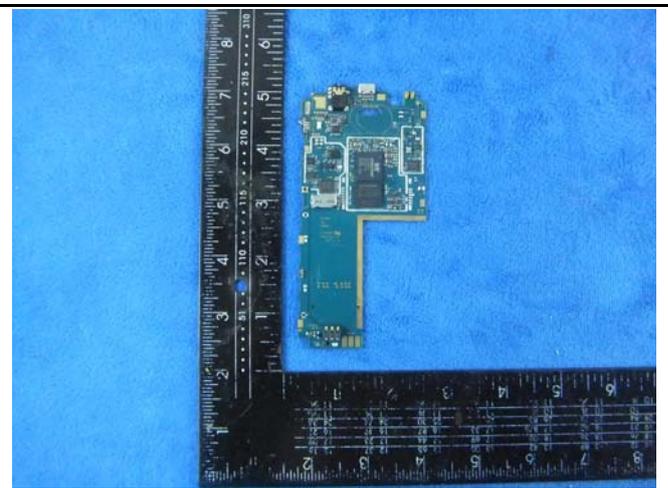
Battery - Front View



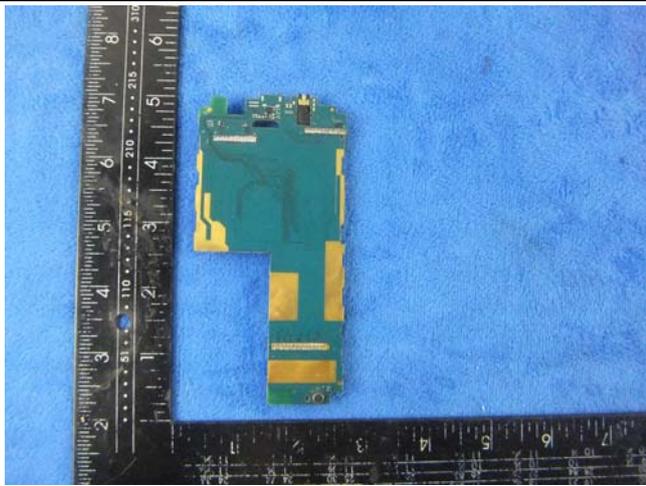
Battery - Rear View



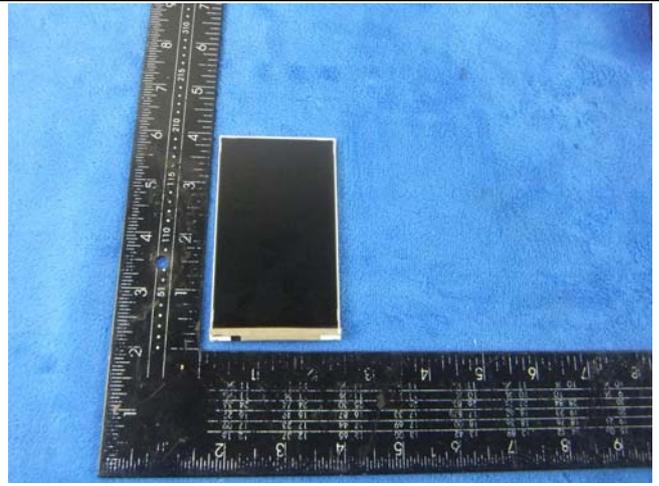
Mainboard with Shielding - Front View



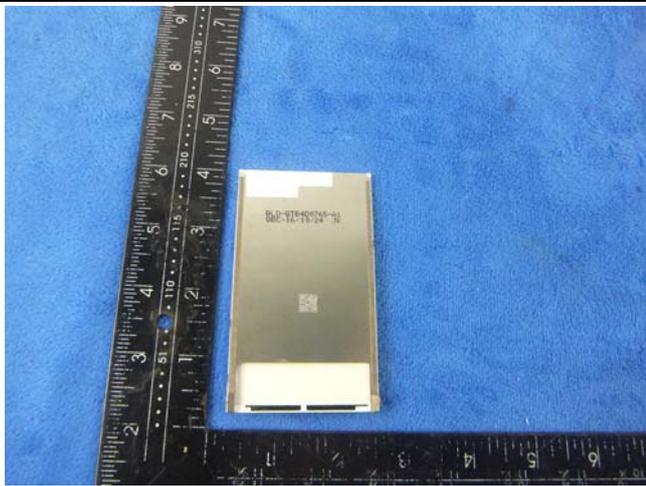
Mainboard without Shielding - Front View



Mainboard – Rear View



LCD – Front View



LCD – Rear View

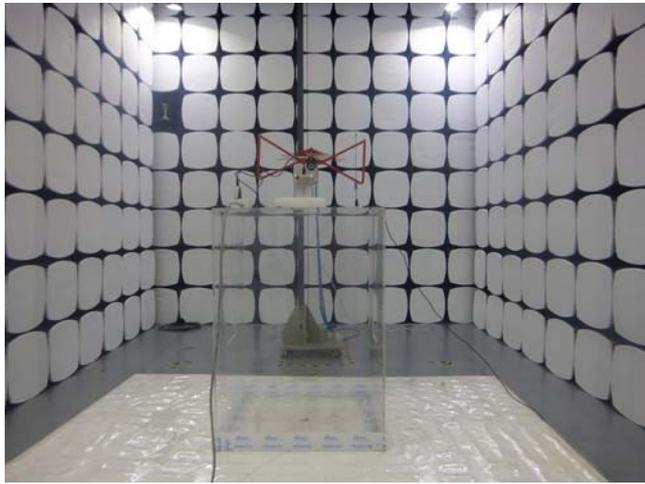


GSM/PCS/UMTS-FDD Antenna View

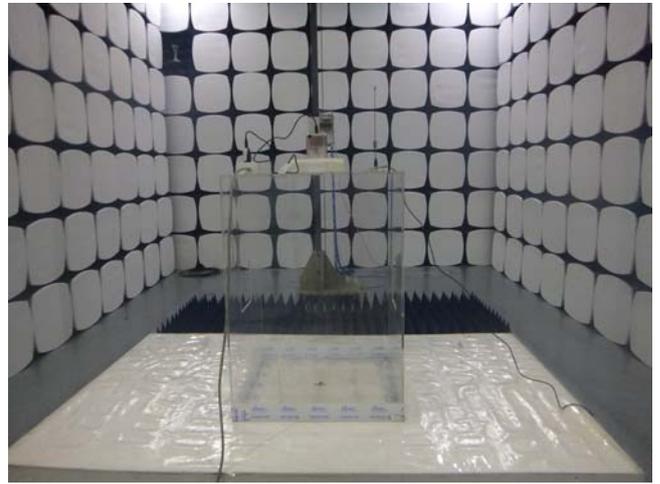


WiFi/BT/BLE/GPS - Antenna View

Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz

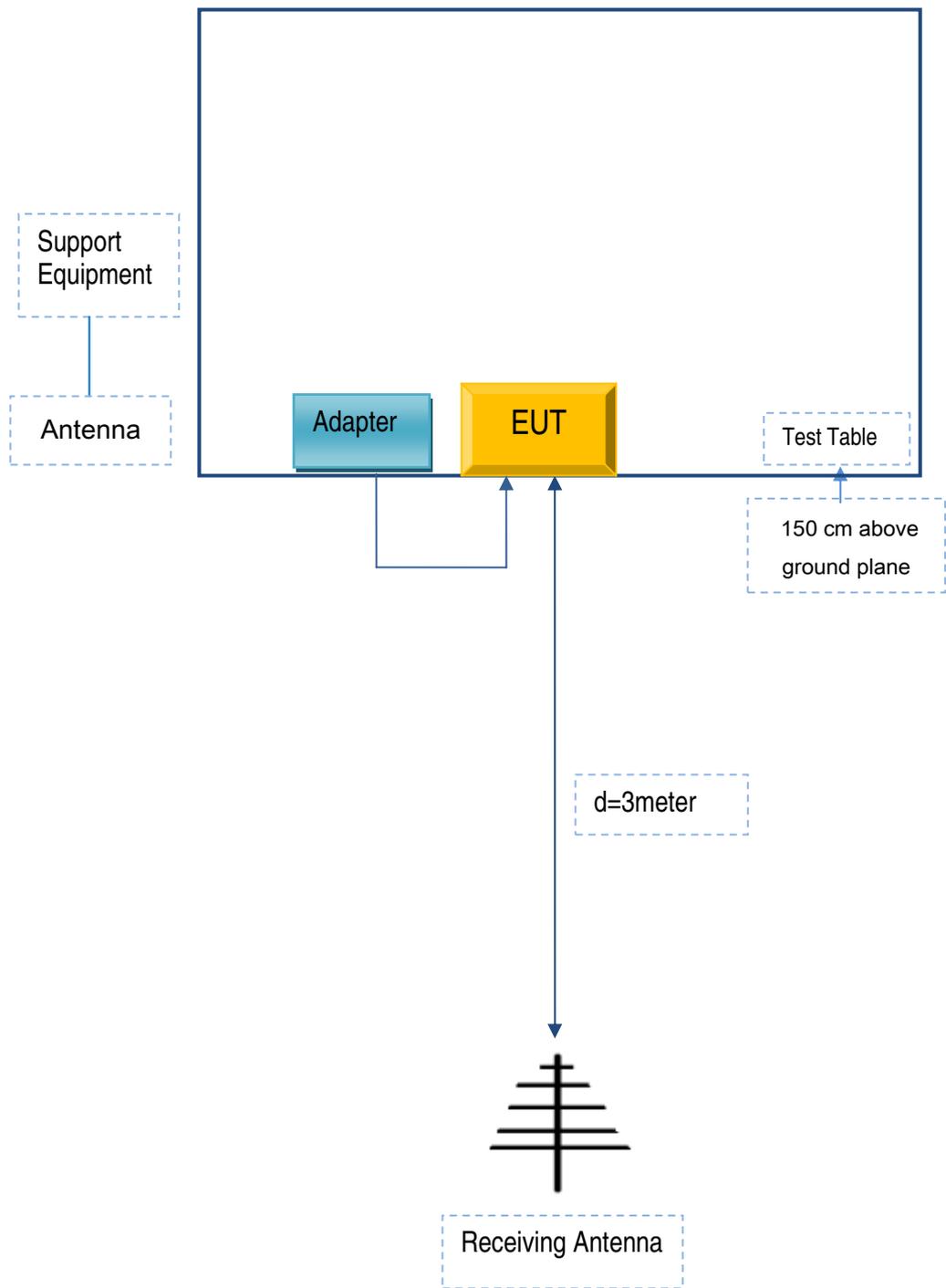


Radiated Spurious Emissions Test Setup Above
1GHz

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
BLU Products, Inc.	Adapter	UB-BM-0700	D0523

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	D0523

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Annex C.ii. EUT OPERATING CONKITIONS

N/A

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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

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Annex E. DECLARATION OF SIMILARITY

N/A