

RF TEST REPORT



Report No.: 17070341-FCC-R1-V1

Supersede Report No.: N/A

Applicant	BLU Products, Inc.	
Product Name	Mobile Phone	
Model No.	TANK XTREME PRO	
Serial No.	N/A	
Test Standard	FCC Part 22(H):2016 ;FCC Part 24(E):2016; FCC Part 27:2016; ANSI/TIA-603-D: 2010	
Test Date	May 23 to June 15, 2017	
Issue Date	June 26, 2017	
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	
<p>This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only</p>		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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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

Test Report	17070341-FCC-R1-V1
Page	3 of 106

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CONTENTS

1. REPORT REVISION HISTORY	5
2. CUSTOMER INFORMATION.....	5
3. TEST SITE INFORMATION	5
4. EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5. TEST SUMMARY	10
6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS.....	11
6.1 RF EXPOSURE (SAR)	11
6.2 RF OUTPUT POWER.....	12
6.3 PEAK-AVERAGE RATIO.....	25
6.4 OCCUPIED BANDWIDTH	30
6.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS	45
6.6 SPURIOUS RADIATED EMISSIONS.....	61
6.7 BAND EDGE	68
6.8 FREQUENCY STABILITY.....	82
ANNEX A. TEST INSTRUMENT	87
ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS.....	89
ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....	102
ANNEX C.II. EUT OPERATING CONKITIONS	104
ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	105
ANNEX E. DECLARATION OF SIMILARITY	106

1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070341-FCC-R1	NONE	Original	June 16, 2017
17070341-FCC-R1-V1	V1	Changed the Frequency stability	June 26, 2017

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:	Mobile Phone
Main Model:	TANK XTREME PRO
Serial Model:	N/A
Date EUT received:	May 22, 2017
Test Date(s):	May 23 to June 15, 2017
Equipment Category :	PCE
Antenna Gain:	GSM850: -0.6dBi PCS1900: 0.7dBi UMTS-FDD Band V: -0.6dBi UMTS-FDD Band IV: 0.4dBi UMTS-FDD Band II: 0.6dBi LTE Band II: 0.6dBi LTE Band IV: 0.3dBi LTE Band VII: 0.8dBi LTE Band XII: -0.2dBi LTE Band XVII: -0.2dBi WIFI: 0.9dBi Bluetooth/BLE: 0.9dBi GPS: 0.7dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK GPS: BPSK

GPRS:GSM850: 28.99 dBm / ERP

PCS1900: 30.15 dBm / EIRP

EGPRS(MCS5):GSM850: 23.13 dBm / ERP

PCS1900: 27.28 dBm / EIRP

RMC:UMTS-FDD Band V: 19.60 dBm / ERP

UMTS-FDD Band II: 23.10 dBm / EIRP

UMTS-FDD Band IV: 23.18 dBm / EIRP

HSDPA:UMTS-FDD Band V: 18.84 dBm / ERP

UMTS-FDD Band II: 22.29 dBm / EIRP

UMTS-FDD Band IV: 22.19 dBm / EIRP

HSUPA:UMTS-FDD Band V: 18.84 dBm / ERP

UMTS-FDD Band II: 22.28 dBm / EIRP

UMTS-FDD Band IV: 22.29 dBm / EIRP

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

WIFI :802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

GPS:1CH

Number of Channels:

Port:

USB Port, Earphone Port

Adapter:

Model: US-CB-1670

Input: AC100-240V~50/60Hz,0.5A

Input Power:

Output: DC 9.0V,1.67A

Battery:

Model: C755768430P

Spec : 3.8V,4300mAh,16.34Wh

Trade Name :



BLU
P R O D U C T S

GPRS/EGPRS Multi-slot class

8/10/12



Test Report	17070341-FCC-R1-V1
Page	9 of 106

FCC ID:

YHLBLUTKXTPRO

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;

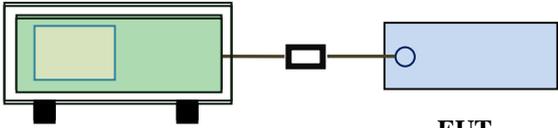
Please refer to RF Exposure Evaluation Report: 17070341-FCC-H.

6.2 RF Output Power

Temperature	23 °C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	June 06, 2017
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 style="text-align: center;">Base Station EUT</p>
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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 = $10 \log (\text{TX power in Watts}/0.001)$ – the absolute level - Spurious attenuation limit in dB = $43 + 10 \text{ Log}_{10} (\text{power out in Watts})$.
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	31.75	31.87	32.07	32±1	29.25	29.45	29.5	29.5±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.74	31.73	31.71	31.5±1	29.24	29.41	29.45	29.5±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	31.14	31.11	31.14	31±1	28.43	28.36	28.75	28.5±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	28.29	28.33	28.36	28±1	27.62	27.81	27.8	27.5±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	31.73	31.72	31.7	31.5±1	29.16	29.32	29.37	29±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	31.13	31.11	31.13	31±1	28.42	28.29	28.64	28.5±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	28.21	28.33	28.27	28±1	27.43	27.56	27.76	27.5±1
EGPRS Multi-Slot Class 8 (1 uplink) 8PSK MCS5	25.88	25.75	25.61	25.5±1	25.45	26.42	26.58	26±1
EGPRS Multi-Slot Class 10 (2 uplink) 8PSK MCS5	23.92	23.81	23.64	23.5±1	24.11	25.23	25.41	25±1
EGPRS Multi-Slot Class 12 (4 uplink) 8PSK MCS5	21.85	21.66	21.5	21.5±1	21.56	21.66	21.77	21.5±1

Test Report	17070341-FCC-R1-V1
Page	15 of 106

Remark :

GPRS, CS1 coding scheme.

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	22.24	22±1
	4175	835	22.35	22±1
	4233	846.6	22.31	22±1
HSDPA Subtest1	4132	826.4	21.53	21.5±1
	4175	835	21.51	21.5±1
	4233	846.6	21.55	21.5±1
HSDPA Subtest2	4132	826.4	21.26	21.5±1
	4175	835	21.3	21.5±1
	4233	846.6	21.34	21.5±1
HSDPA Subtest3	4132	826.4	21.58	21.5±1
	4175	835	21.57	21.5±1
	4233	846.6	21.59	21.5±1
HSDPA Subtest4	4132	826.4	21.33	21.5±1
	4175	835	21.32	21.5±1
	4233	846.6	21.34	21.5±1
HSUPA Subtest1	4132	826.4	21.59	21.5±1
	4175	835	21.53	21.5±1
	4233	846.6	21.54	21.5±1
HSUPA Subtest2	4132	826.4	21.46	21.5±1
	4175	835	21.48	21.5±1
	4233	846.6	21.49	21.5±1
HSUPA Subtest3	4132	826.4	21.43	21.5±1
	4175	835	21.49	21.5±1
	4233	846.6	21.5	21.5±1
HSUPA Subtest4	4132	826.4	21.46	21.5±1
	4175	835	21.47	21.5±1
	4233	846.6	21.5	21.5±1
HSUPA Subtest5	4132	826.4	21.44	21.5±1
	4175	835	21.51	21.5±1
	4233	846.6	21.5	21.5±1

UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	9262	1852.4	22.4	22.5±1
	9400	1880	22.26	22.5±1
	9538	1907.6	22.5	22.5±1
HSDPA Subtest1	9262	1852.4	21.63	21.5±1
	9400	1880	21.66	21.5±1
	9538	1907.6	21.68	21.5±1
HSDPA Subtest2	9262	1852.4	21.36	21.5±1
	9400	1880	21.32	21.5±1
	9538	1907.6	21.35	21.5±1
HSDPA Subtest3	9262	1852.4	21.69	21.5±1
	9400	1880	21.64	21.5±1
	9538	1907.6	21.62	21.5±1
HSDPA Subtest4	9262	1852.4	21.39	21.5±1
	9400	1880	21.34	21.5±1
	9538	1907.6	21.31	21.5±1
HSUPA Subtest1	9262	1852.4	21.42	21.5±1
	9400	1880	21.43	21.5±1
	9538	1907.6	21.47	21.5±1
HSUPA Subtest2	9262	1852.4	21.28	21.5±1
	9400	1880	21.26	21.5±1
	9538	1907.6	21.29	21.5±1
HSUPA Subtest3	9262	1852.4	21.35	21.5±1
	9400	1880	21.36	21.5±1
	9538	1907.6	21.33	21.5±1
HSUPA Subtest4	9262	1852.4	21.55	21.5±1
	9400	1880	21.54	21.5±1
	9538	1907.6	21.59	21.5±1
HSUPA Subtest5	9262	1852.4	21.62	21.5±1
	9400	1880	21.65	21.5±1
	9538	1907.6	21.68	21.5±1

UMTS-FDD Band IV

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	1313	1712.6	22.78	22.5±1
	1413	1732.6	22.76	22.5±1
	1512	1752.4	22.5	22.5±1
HSDPA Subtest1	1313	1712.6	21.65	22±1
	1413	1732.6	21.66	22±1
	1512	1752.4	21.61	22±1
HSDPA Subtest2	1313	1712.6	21.68	22±1
	1413	1732.6	21.62	22±1
	1512	1752.4	21.63	22±1
HSDPA Subtest3	1313	1712.6	21.79	22±1
	1413	1732.6	21.76	22±1
	1512	1752.4	21.75	22±1
HSDPA Subtest4	1313	1712.6	21.53	22±1
	1413	1732.6	21.54	22±1
	1512	1752.4	21.51	22±1
HSUPA Subtest1	1313	1712.6	21.68	22±1
	1413	1732.6	21.62	22±1
	1512	1752.4	21.6	22±1
HSUPA Subtest2	1313	1712.6	21.83	22±1
	1413	1732.6	21.85	22±1
	1512	1752.4	21.89	22±1
HSUPA Subtest3	1313	1712.6	21.59	22±1
	1413	1732.6	21.55	22±1
	1512	1752.4	21.54	22±1
HSUPA Subtest4	1313	1712.6	21.52	22±1
	1413	1732.6	21.55	22±1
	1512	1752.4	21.51	22±1
HSUPA Subtest5	1313	1712.6	21.68	22±1
	1413	1732.6	21.72	22±1
	1512	1752.4	21.77	22±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	22.73	V	6.8	0.53	29	38.45
824.2	21.08	H	6.8	0.53	27.35	38.45
836.6	23.93	V	6.8	0.53	30.2	38.45
836.6	22.37	H	6.8	0.53	28.64	38.45
848.8	23.96	V	6.9	0.53	30.33	38.45
848.8	22.42	H	6.9	0.53	28.79	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	22.92	V	7.88	0.85	29.95	33
1850.2	21.13	H	7.88	0.85	28.16	33
1880	23.12	V	7.88	0.85	30.15	33
1880	21.4	H	7.88	0.85	28.43	33
1909.8	23.19	V	7.86	0.85	30.2	33
1909.8	21.64	H	7.86	0.85	28.65	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	22.72	V	6.8	0.53	28.99	38.45
824.2	21.04	H	6.8	0.53	27.31	38.45
836.6	22.71	V	6.8	0.53	28.98	38.45
836.6	21.03	H	6.8	0.53	27.3	38.45
848.8	22.59	V	6.9	0.53	28.96	38.45
848.8	20.91	H	6.9	0.53	27.28	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	22.91	V	7.88	0.85	29.94	33
1850.2	21.23	H	7.88	0.85	28.26	33
1880	23.08	V	7.88	0.85	30.11	33
1880	21.38	H	7.88	0.85	28.41	33
1909.8	23.14	V	7.86	0.85	30.15	33
1909.8	21.44	H	7.86	0.85	28.45	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	16.86	V	6.8	0.53	23.13	38.45
824.2	15.22	H	6.8	0.53	21.49	38.45
836.6	16.73	V	6.8	0.53	23	38.45
836.6	15	H	6.8	0.53	21.27	38.45
848.8	16.47	V	6.9	0.53	22.84	38.45
848.8	14.69	H	6.9	0.53	21.06	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	19.12	V	7.88	0.85	26.15	33
1850.2	17.28	H	7.88	0.85	24.31	33
1880	20.09	V	7.88	0.85	27.12	33
1880	18.36	H	7.88	0.85	25.39	33
1909.8	20.27	V	7.86	0.85	27.28	33
1909.8	18.48	H	7.86	0.85	25.49	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	13.22	V	6.8	0.53	19.49	38.45
826.4	12.16	H	6.8	0.53	18.43	38.45
835	13.33	V	6.8	0.53	19.6	38.45
835	12.29	H	6.8	0.53	18.56	38.45
846.6	13.19	V	6.9	0.53	19.56	38.45
846.6	12.11	H	6.9	0.53	18.48	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	15.97	V	7.88	0.85	23	33
1852.4	15	H	7.88	0.85	22.03	33
1880	15.83	V	7.88	0.85	22.86	33
1880	14.87	H	7.88	0.85	21.9	33
1907.6	16.09	V	7.86	0.85	23.1	33
1907.6	15.05	H	7.86	0.85	22.06	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	16.24	V	7.76	0.82	23.18	30
1712.4	15.12	H	7.76	0.82	22.06	30
1740	16.22	V	7.76	0.82	23.16	30
1740	15.1	H	7.76	0.82	22.04	30
1752.6	15.98	V	7.74	0.82	22.9	30
1752.6	14.99	H	7.74	0.82	21.91	30

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	12.56	V	6.8	0.53	18.83	38.45
826.4	11.57	H	6.8	0.53	17.84	38.45
835	12.55	V	6.8	0.53	18.82	38.45
835	11.52	H	6.8	0.53	17.79	38.45
846.6	12.47	V	6.9	0.53	18.84	38.45
846.6	11.43	H	6.9	0.53	17.8	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	15.26	V	7.88	0.85	22.29	33
1852.4	14.2	H	7.88	0.85	21.23	33
1880	15.23	V	7.88	0.85	22.26	33
1880	14.18	H	7.88	0.85	21.21	33
1907.6	15.27	V	7.86	0.85	22.28	33
1907.6	14.21	H	7.86	0.85	21.22	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	15.25	V	7.76	0.82	22.19	30
1712.4	14.16	H	7.76	0.82	21.1	30
1740	15.22	V	7.76	0.82	22.16	30
1740	14.13	H	7.76	0.82	21.07	30
1752.6	15.23	V	7.74	0.82	22.15	30
1752.6	14.14	H	7.74	0.82	21.06	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	12.57	V	6.8	0.53	18.84	38.45
826.4	11.54	H	6.8	0.53	17.81	38.45
835	12.51	V	6.8	0.53	18.78	38.45
835	11.5	H	6.8	0.53	17.77	38.45
846.6	12.42	V	6.9	0.53	18.79	38.45
846.6	11.41	H	6.9	0.53	17.78	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	15.19	V	7.88	0.85	22.22	33
1852.4	14.17	H	7.88	0.85	21.2	33
1880	15.22	V	7.88	0.85	22.25	33
1880	14.2	H	7.88	0.85	21.23	33
1907.6	15.27	V	7.86	0.85	22.28	33
1907.6	14.25	H	7.86	0.85	21.26	33

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

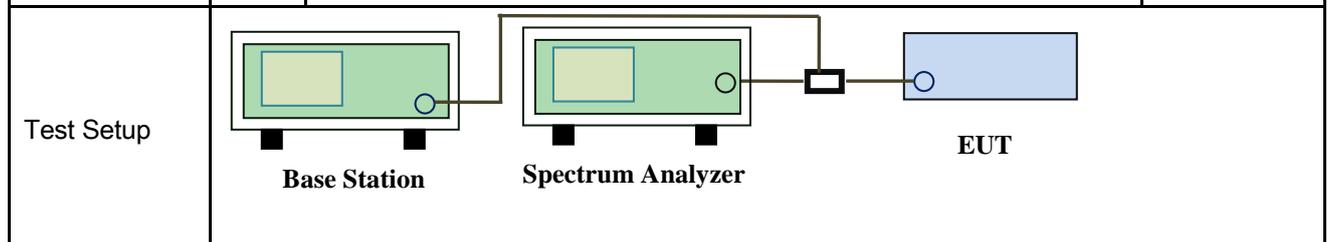
Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	15.29	V	7.76	0.82	22.23	30
1712.4	14.25	H	7.76	0.82	21.19	30
1740	15.31	V	7.76	0.82	22.25	30
1740	14.27	H	7.76	0.82	21.21	30
1752.6	15.37	V	7.74	0.82	22.29	30
1752.6	14.31	H	7.74	0.82	21.23	30

6.3 Peak-Average Ratio

Temperature	23 °C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	June 06, 2017
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	29.53	29.25	0.28
1880	29.85	29.45	0.4
1909.8	29.82	29.5	0.32

GPRS 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	29.43	29.24	0.19
1880	29.64	29.41	0.23
1909.8	29.62	29.45	0.17

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	25.68	25.45	0.23
1880	26.63	26.42	0.21
1909.8	26.79	26.58	0.21

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	22.63	22.4	0.23
1880	22.63	22.26	0.37
1907.6	22.81	22.5	0.31

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1712.6	23.01	22.78	0.23
1732.6	23	22.76	0.24
1752.4	22.72	22.5	0.22

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	21.69	21.42	0.27
1880	21.77	21.43	0.34
1907.6	21.74	21.47	0.27

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1712.6	21.85	21.68	0.17
1732.6	21.88	21.62	0.26
1752.4	21.86	21.6	0.26

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	21.95	21.63	0.32
1880	21.94	21.66	0.28
1907.6	21.96	21.68	0.28

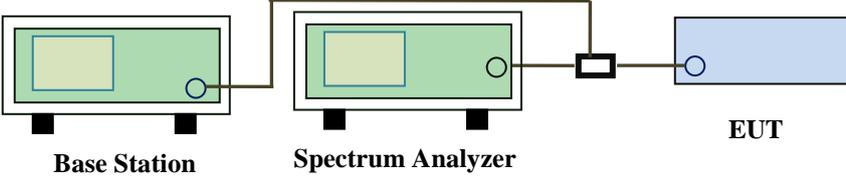
UMTS-FDD Band IV PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1712.6	21.88	21.65	0.23
1732.6	21.99	21.66	0.33
1752.4	21.93	21.61	0.32

6.4 Occupied Bandwidth

Temperature	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 2017
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	244.0456	316.376
190	836.6	250.4847	319.216
251	848.8	244.2872	317.435

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	245.5439	319.140
661	1880.0	247.1638	320.890
810	1909.8	246.7646	321.351

GPRS:

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	248.2125	316.816
190	836.6	238.8259	321.303
251	848.8	244.4619	315.741

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	249.8753	323.278
661	1880.0	248.9392	320.237
810	1909.8	247.5405	319.363

EGPRS (MCS 5):

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	250.8940	317.440
190	836.6	248.4552	317.579
251	848.8	243.6980	316.176

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	246.7632	322.667
661	1880.0	246.3908	321.001
810	1909.8	246.2402	322.312

RMC:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.2142	4.900
4175	835.0	4.2070	4.893
4233	846.6	4.2116	4.915

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.2205	4.872
9400	1880.0	4.2213	4.876
9538	1907.6	4.2281	4.914

UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.2051	4.869
1413	1733	4.2083	4.911
1512	1752	4.1974	4.911

HSDPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.6	4.2141	4.854
4175	835.0	4.2181	4.897
4233	846.6	4.2096	4.865

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.2059	4.892
9400	1880.0	4.2105	4.880
9538	1907.6	4.2223	4.881

UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.2128	4.895
1413	1733	4.2185	4.920
1512	1752	4.2176	4.893

HSUPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.2165	4.881
4175	835.0	4.1993	4.882
4233	846.6	4.2086	4.907

UMTS-FDD Band II (Part 24E)

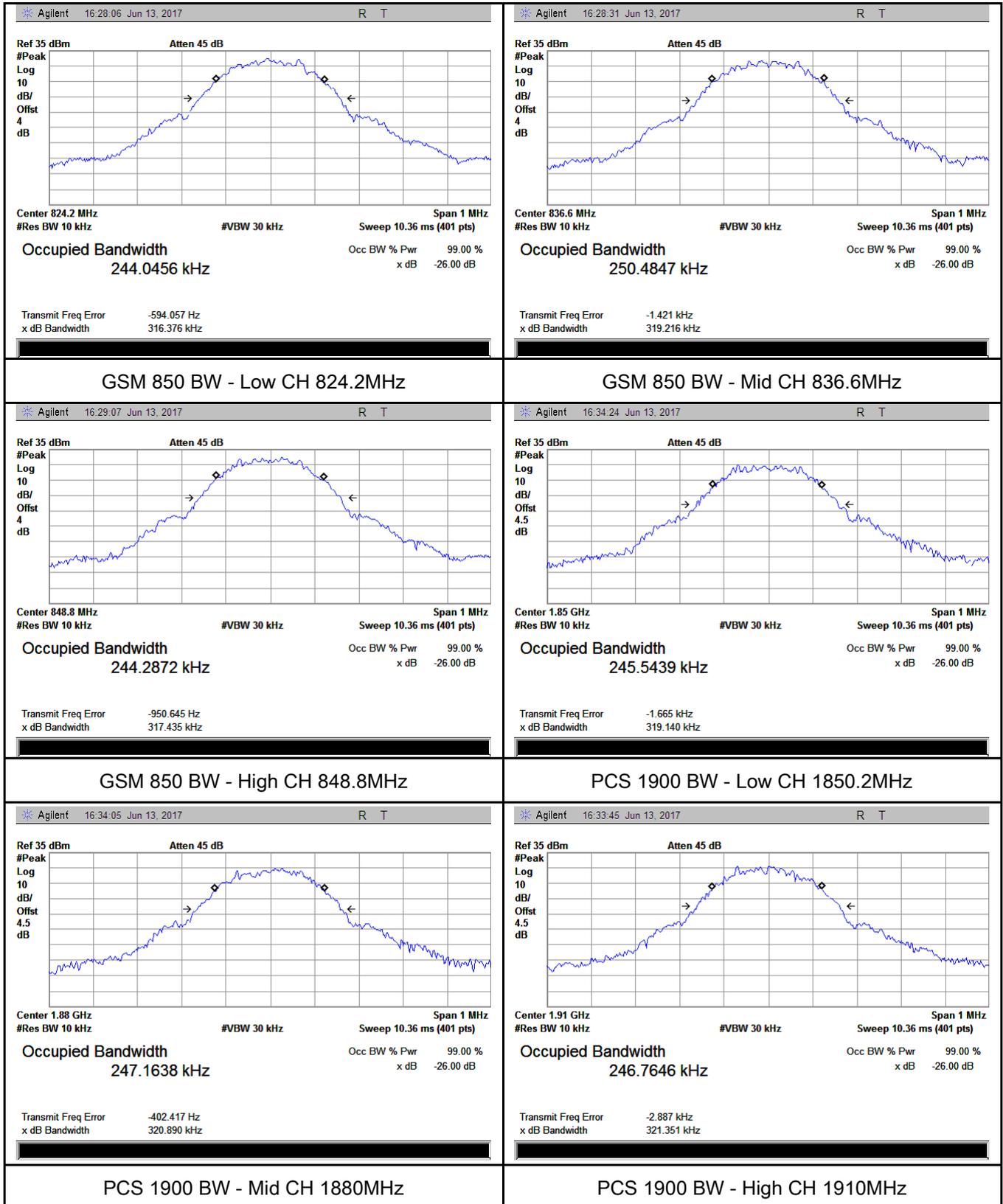
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.2148	4.902
9400	1880.0	4.2233	4.867
9538	1907.6	4.2155	4.886

UMTS-FDD Band IV (Part 27)

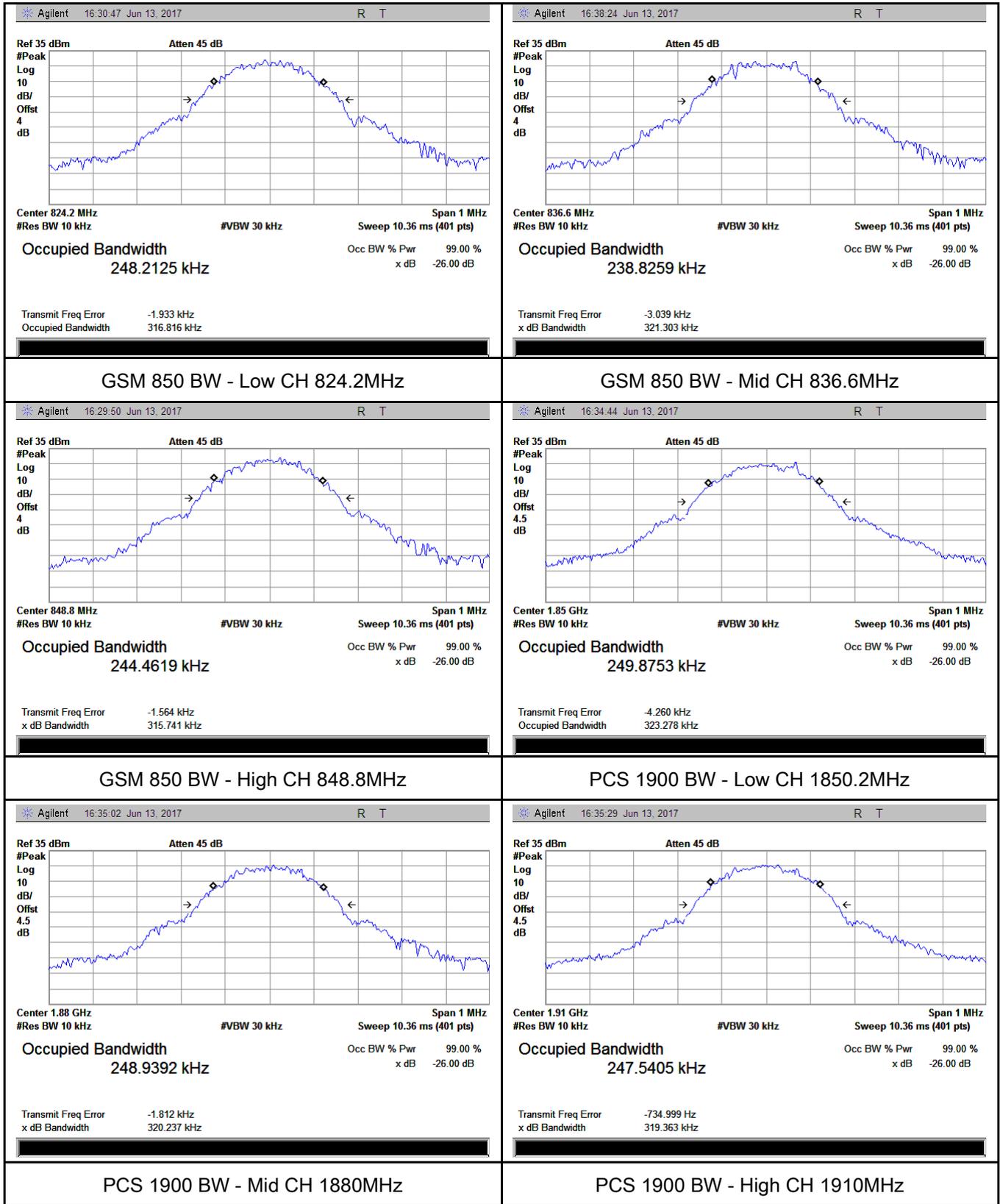
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.2073	4.916
1413	1733	4.2154	4.914
1512	1752	4.2152	4.879

Test Plots

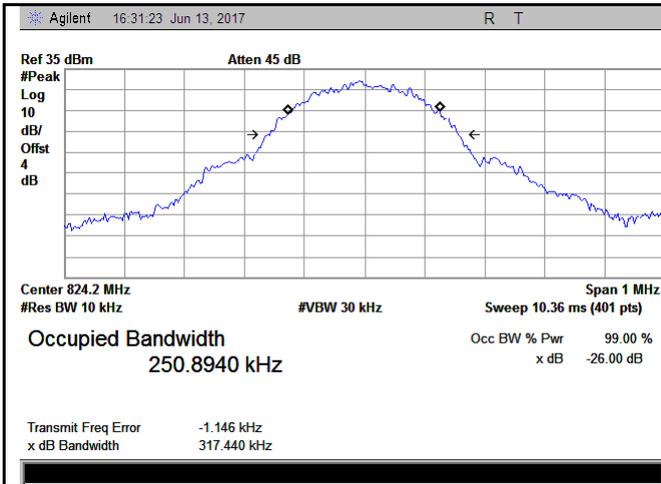
GMS Voice:



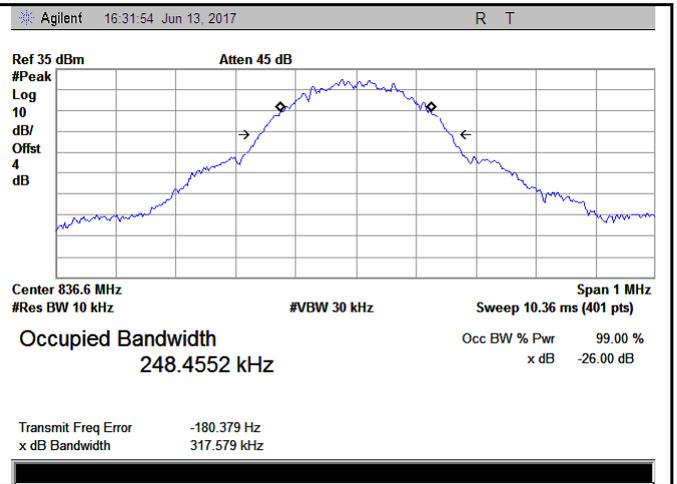
GPRS:



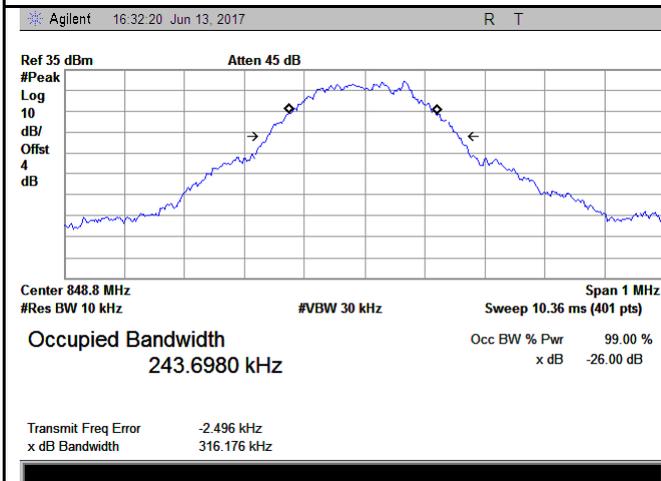
EGPRS:



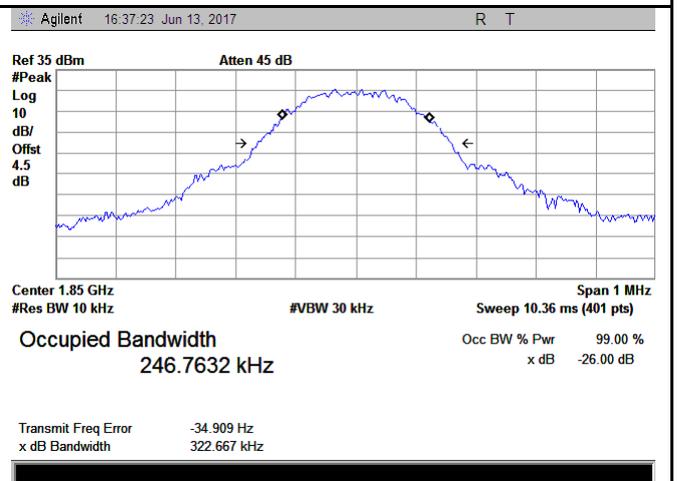
GSM 850 BW - Low CH 824.2MHz



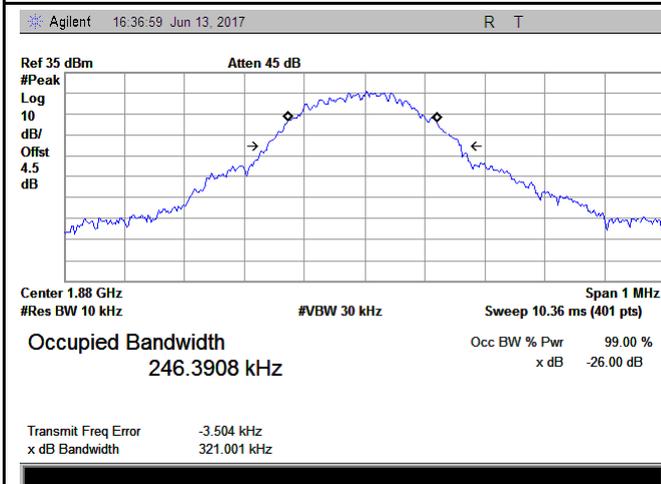
GSM 850 BW - Mid CH 836.6MHz



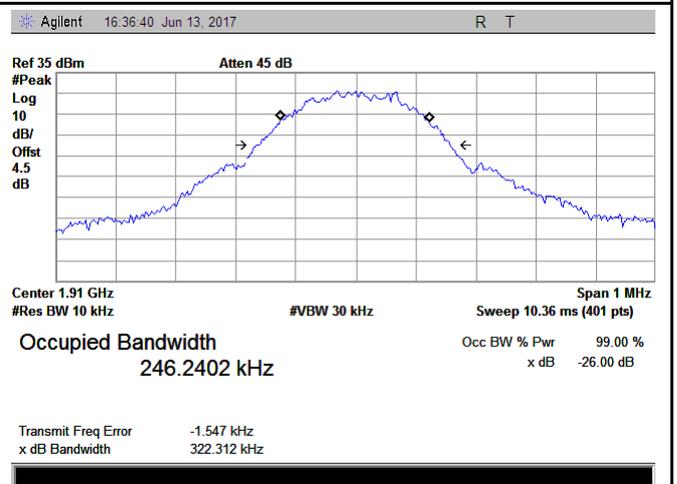
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

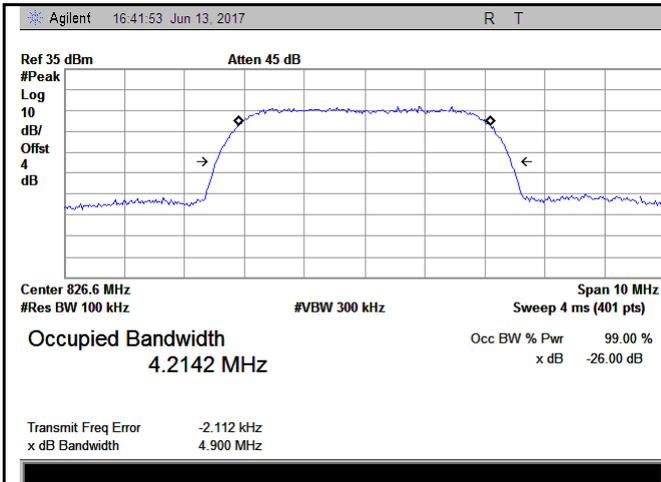


PCS 1900 BW - Mid CH 1880MHz

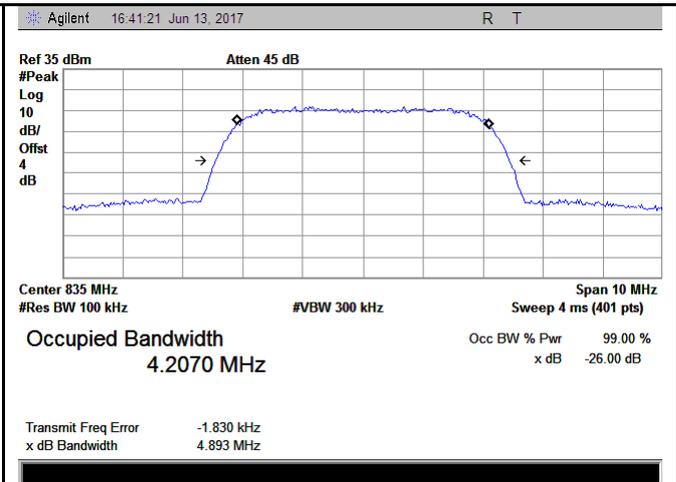


PCS 1900 BW - High CH 1910MHz

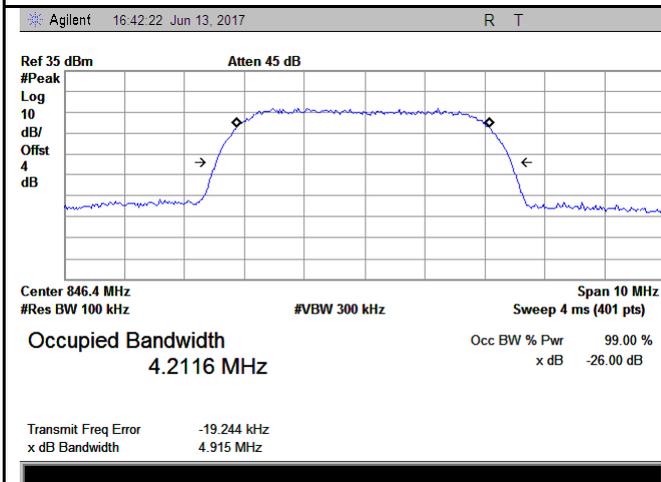
RMC:



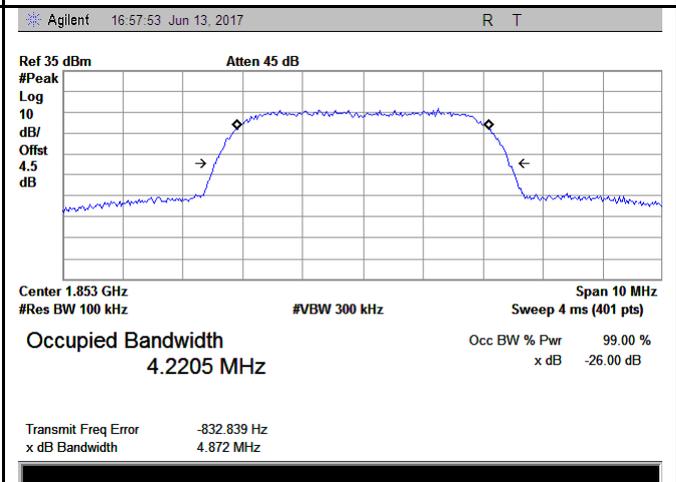
Band V BW - Low CH 826.6 MHz



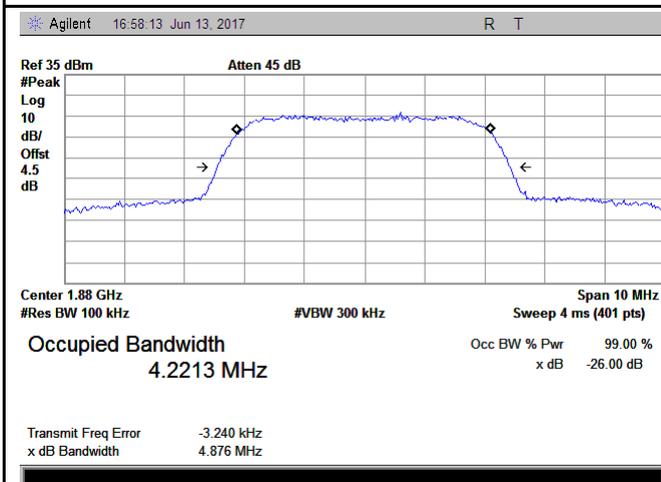
Band V BW - Mid CH 835.0 MHz



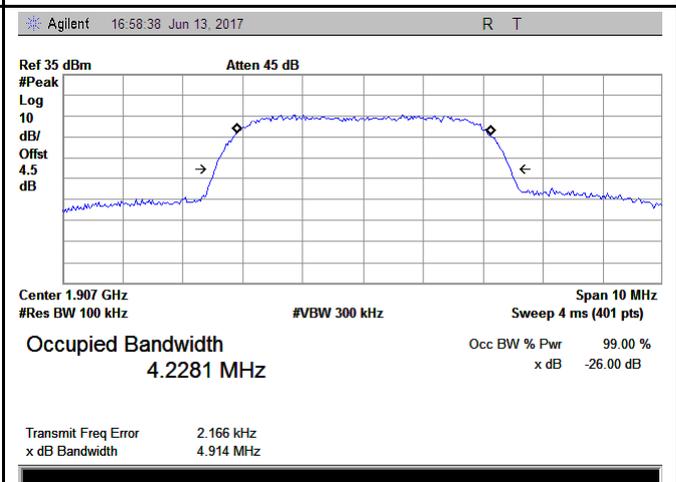
Band V BW - High CH 846.6 MHz



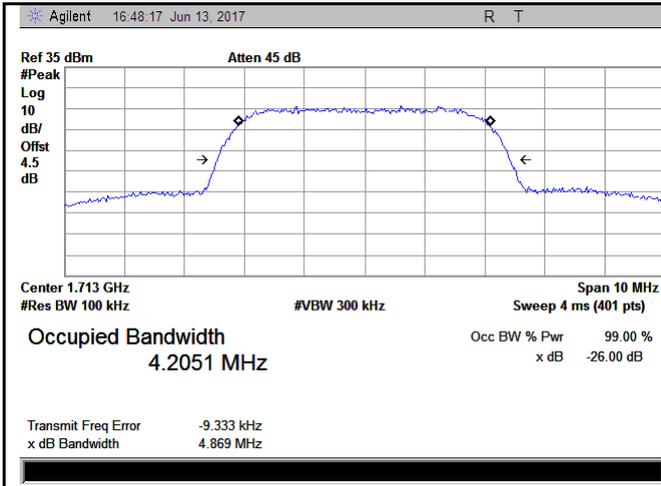
Band II BW - Low CH 1853MHz



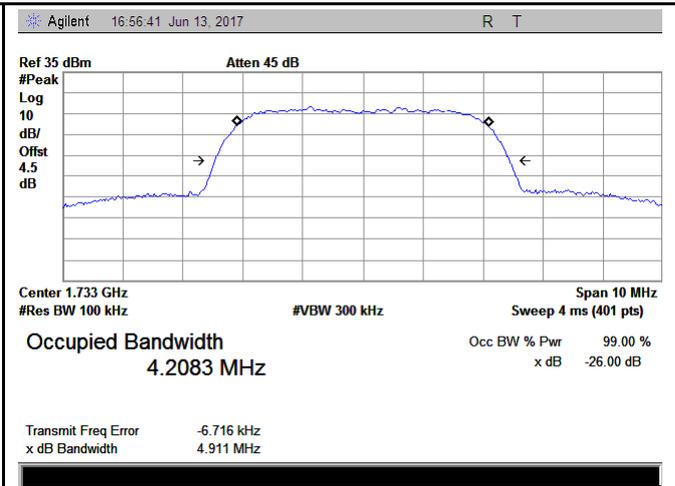
Band II BW - Mid CH 1880MHz



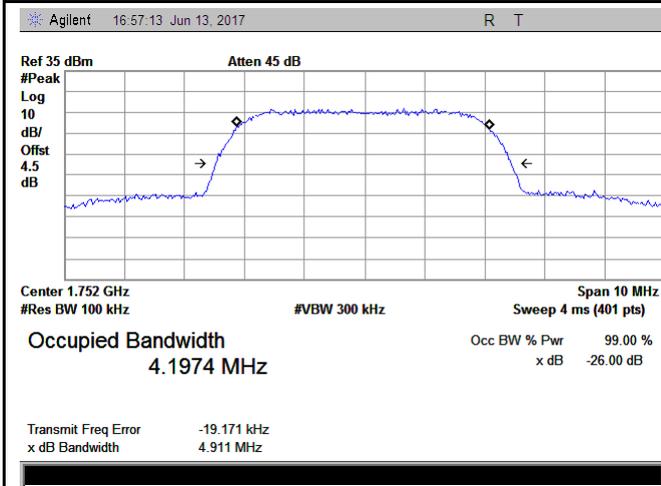
Band II BW - High CH 1907MHz



Band IV BW - Low CH 1713MHz

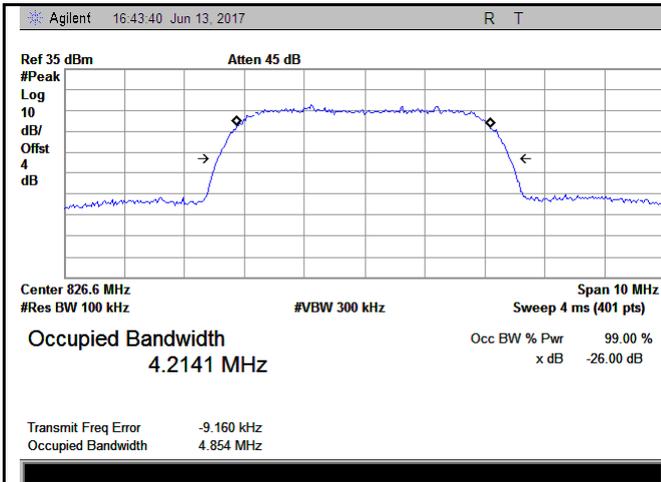


Band IVBW - Mid CH 1733MHz

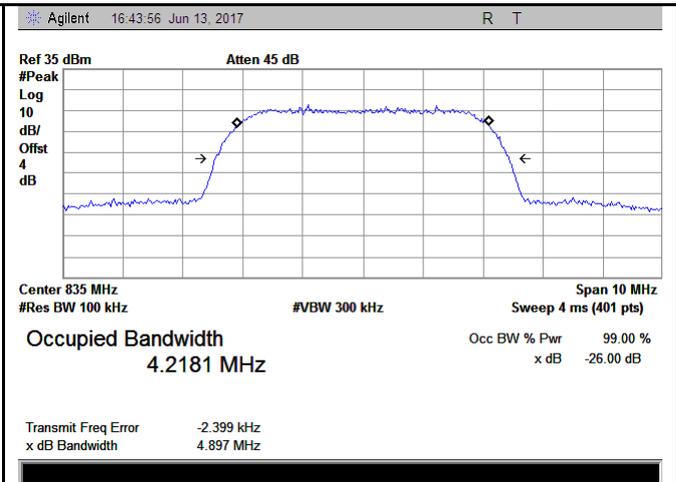


Band IV BW - High CH 1752MHz

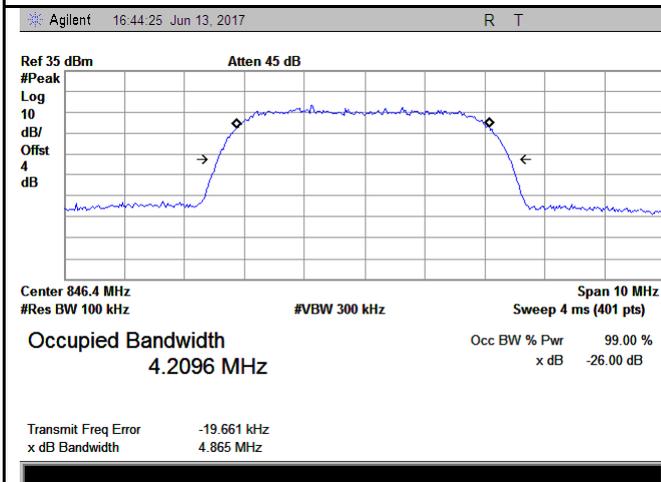
HSDPA:



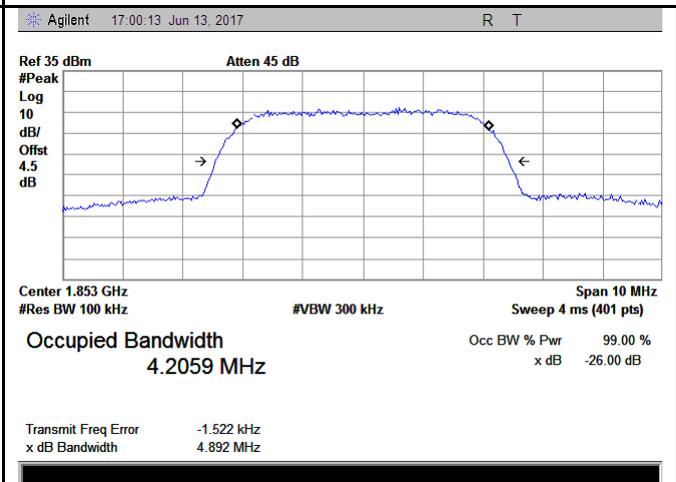
Band V BW - Low CH 826.6 MHz



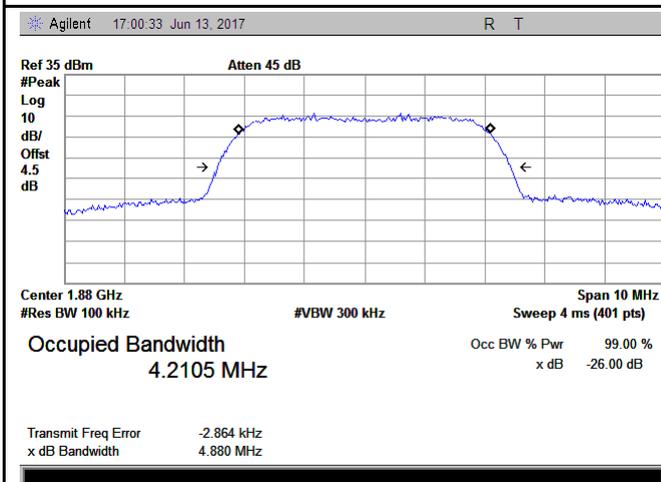
Band V BW - Mid CH 835.0 MHz



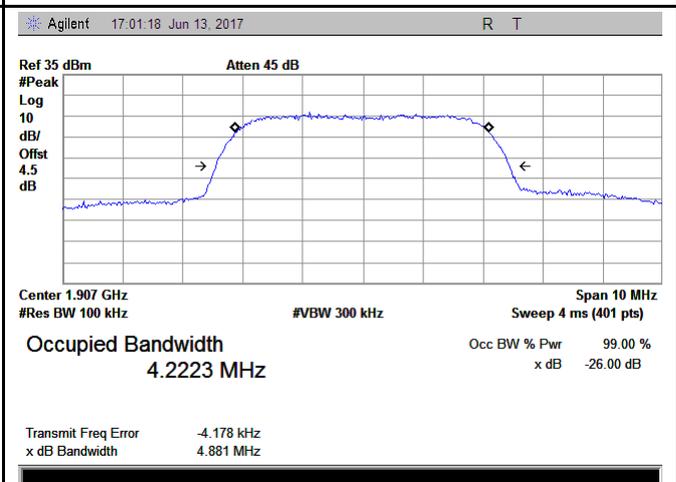
Band V BW - High CH 846.4 MHz



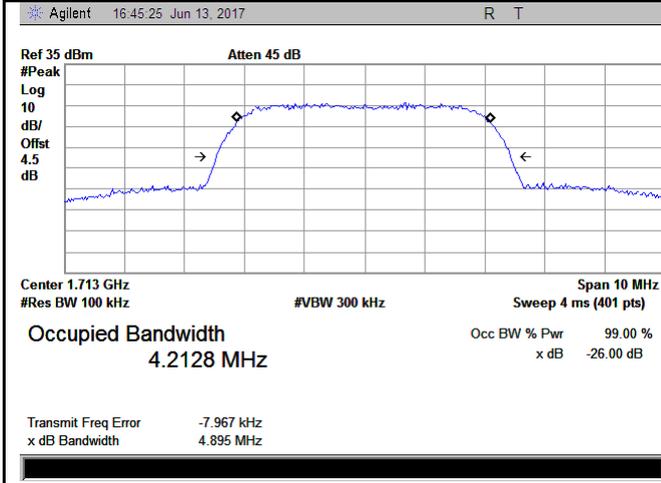
Band II BW - Low CH 1852.4MHz



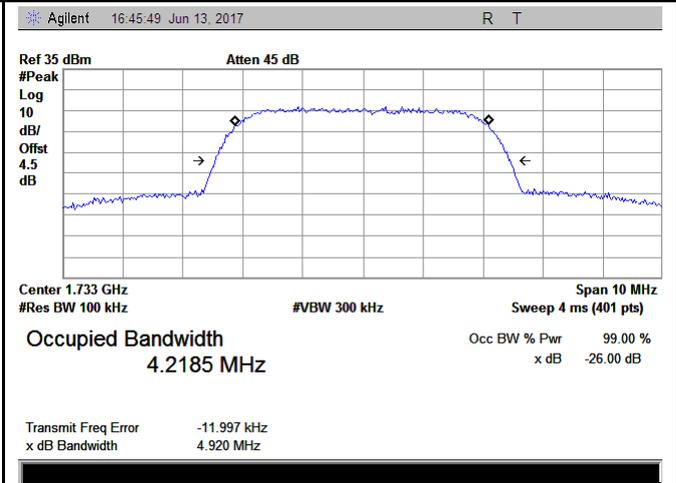
Band II BW - Mid CH 1880MHz



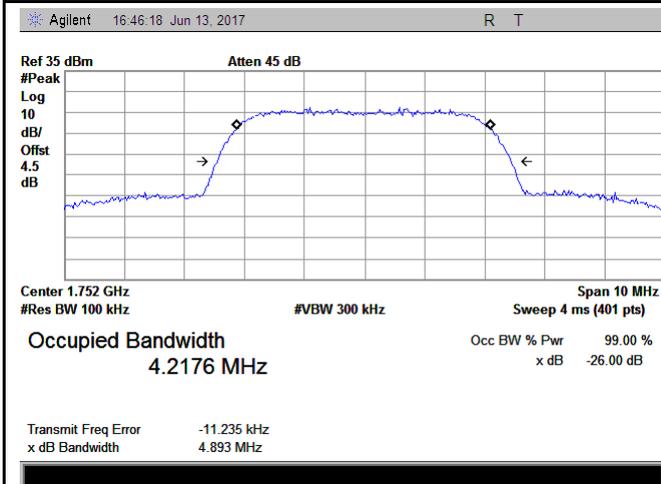
Band II BW - High CH 1907MHz



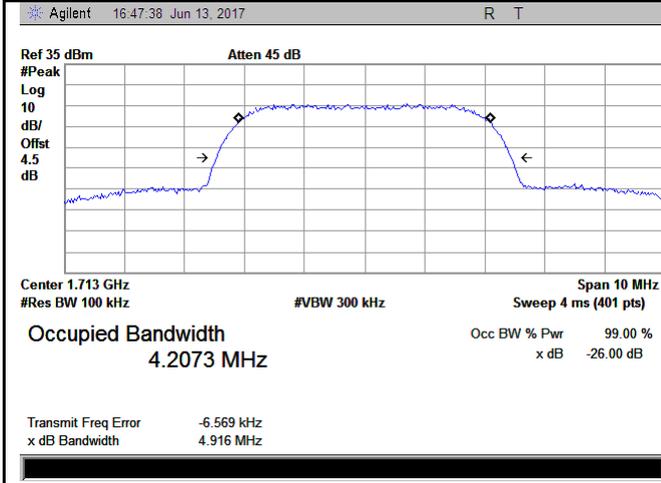
Band IV BW - Low CH 1713MHz



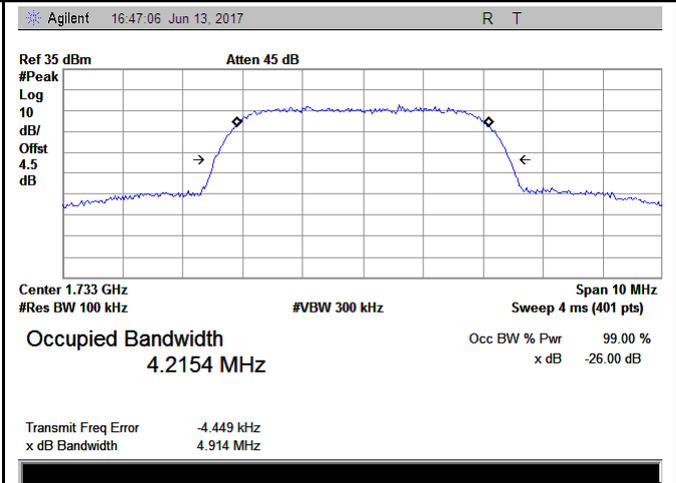
Band IVBW - Mid CH 1733MHz



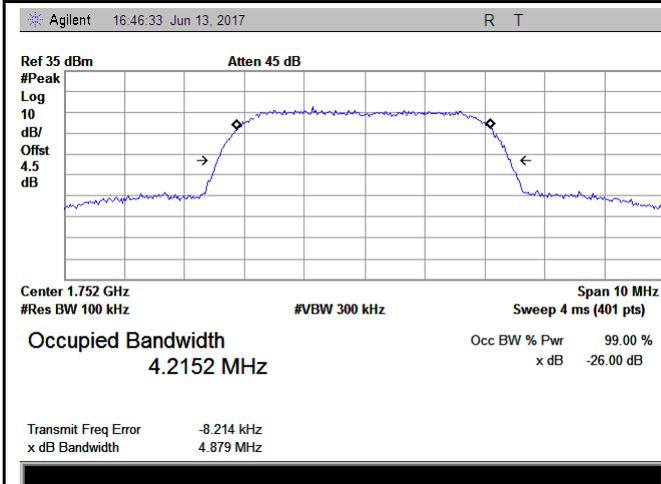
Band IV BW - High CH 1752MHz



Band IV BW - Low CH 1713MHz



Band IVBW - Mid CH 1733MHz

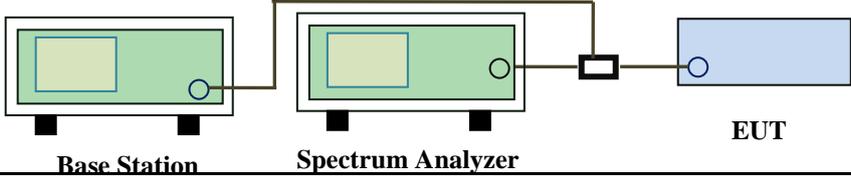


Band IV BW - High CH 1752MHz

6.5 Spurious Emissions at Antenna Terminals

Temperature	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 2017
Tested By :	Loren Luo

Requirement(s):

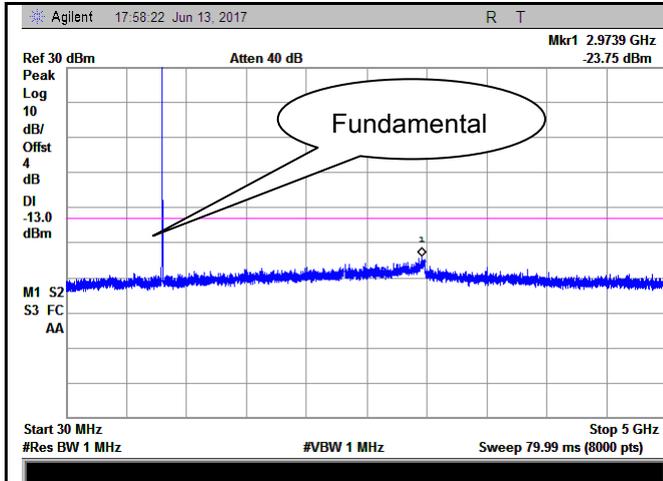
Spec	Item	Requirement	Applicable
§2.1051, §22.917(a)& §24.238(a) § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log(P)$ dB	<input checked="" type="checkbox"/>
Test Setup	 <p>The diagram shows a Base Station (green box) connected to a Spectrum Analyzer (green box) and an EUT (blue box) through a power divider (black box). The Base Station and Spectrum Analyzer are connected to the power divider, which then splits the signal to the 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

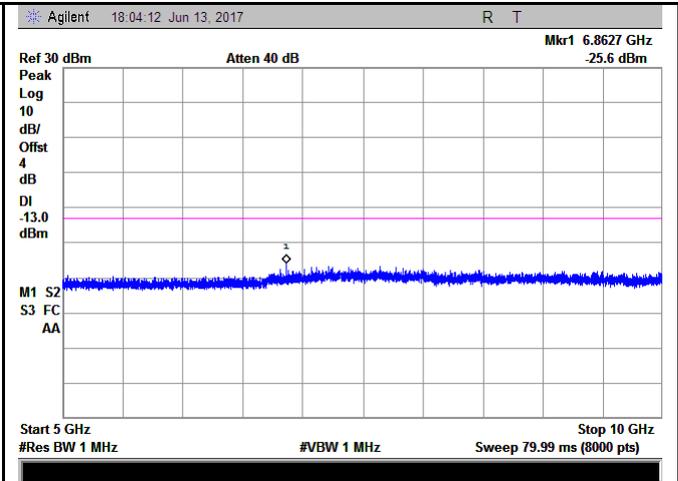
Test Plots

GSM Voice:

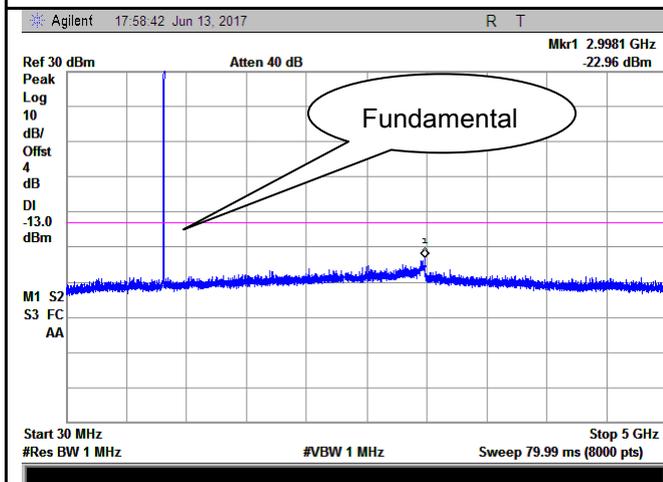
Cellular Band (Part 22H) result



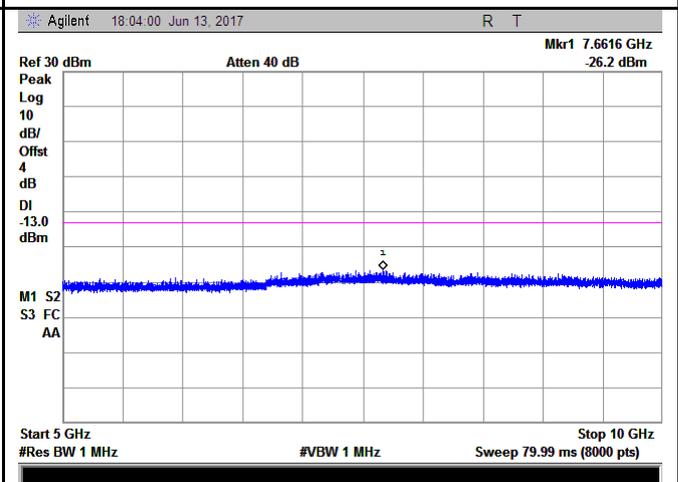
GSM 850 - Low Channel-1



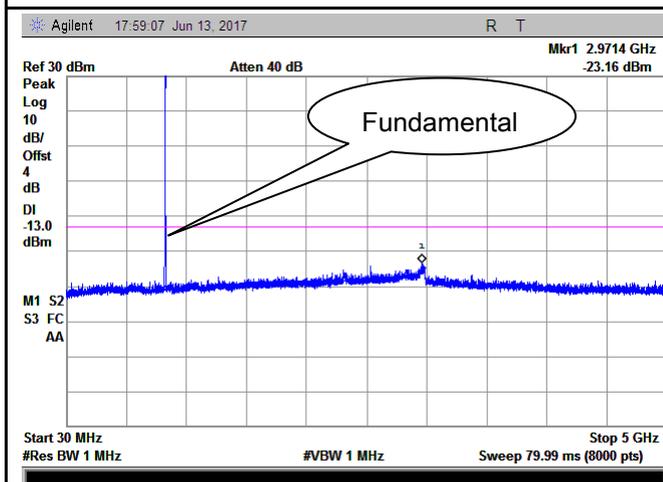
GSM 850 - Low Channel-2



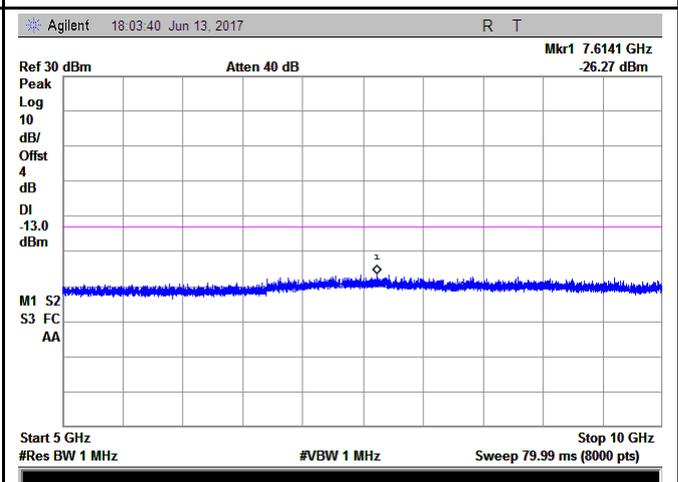
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

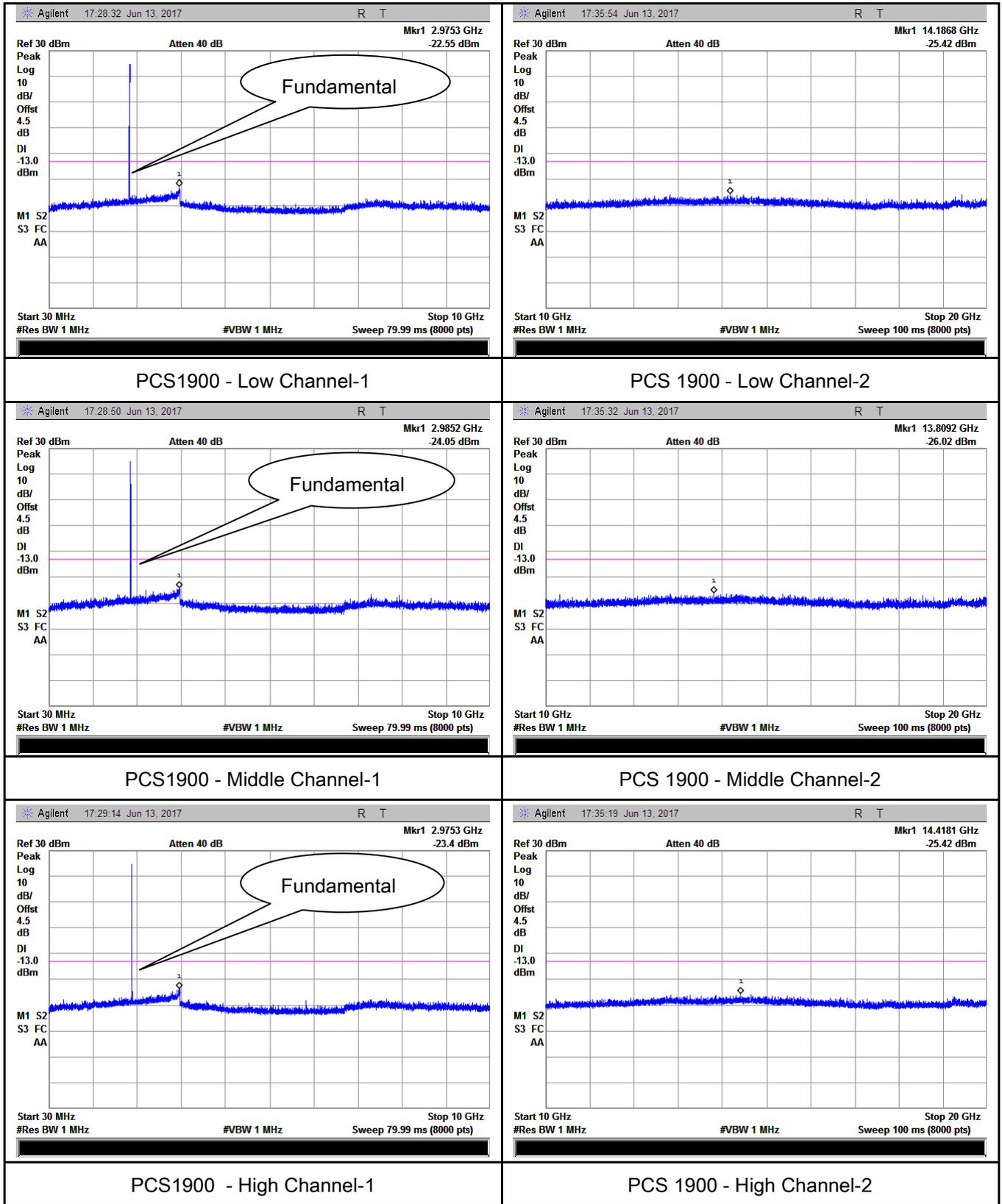


GSM 850 - High Channel-1



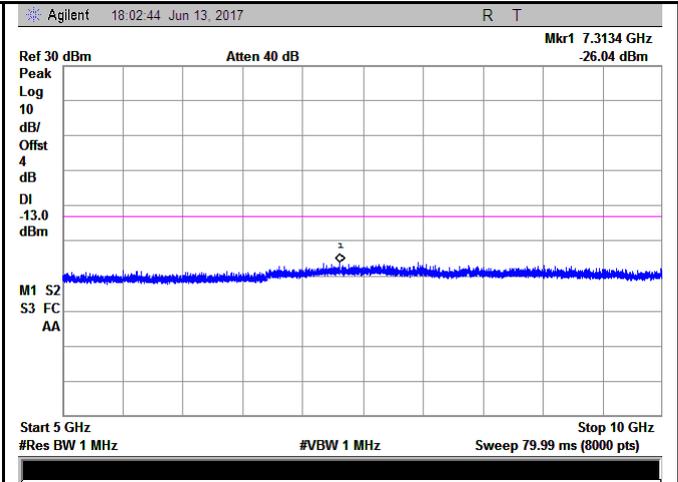
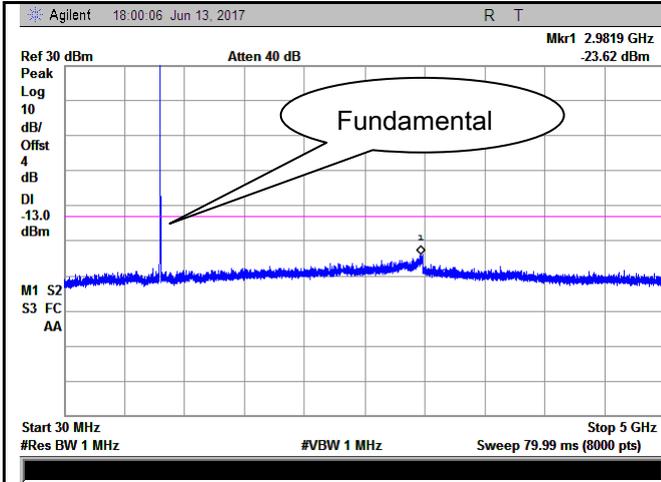
GSM 850 - High Channel-2

PCS Band (Part24E) result



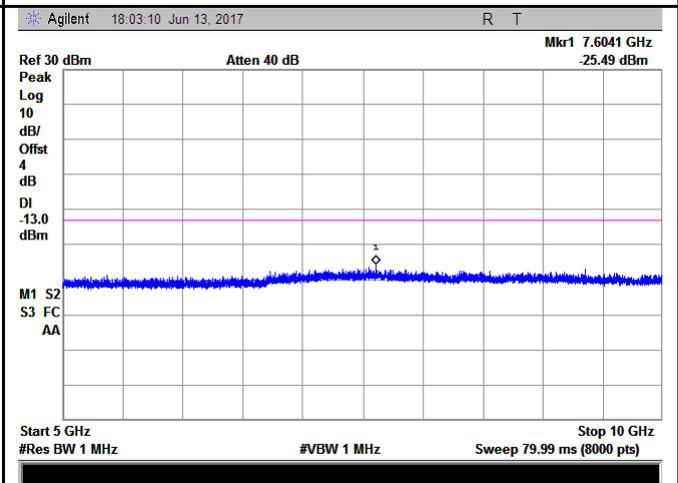
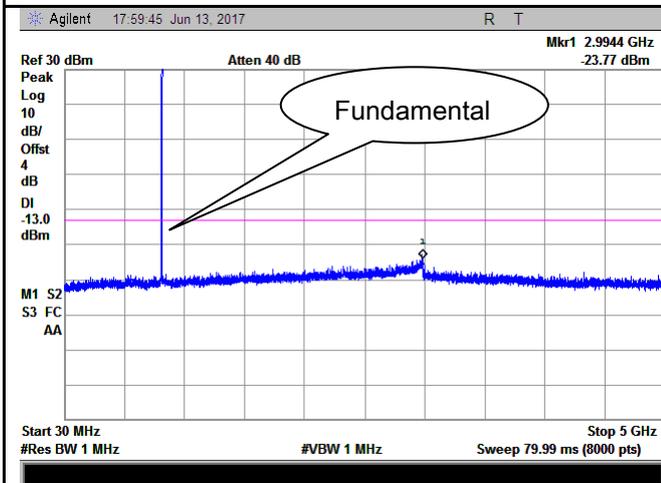
GPRS:

Cellular Band (Part 22H) result



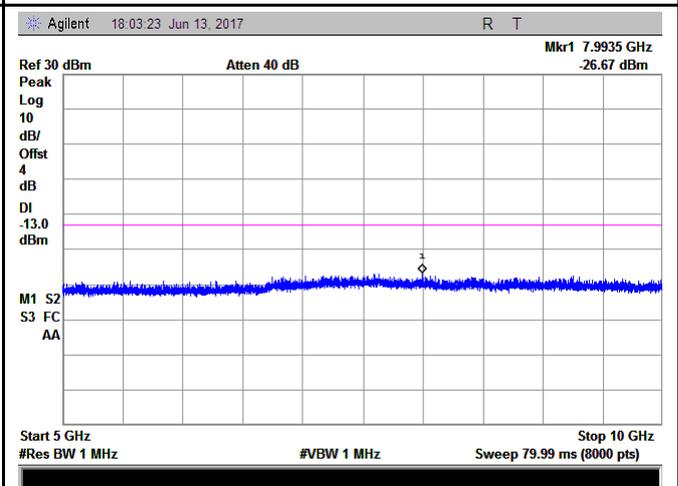
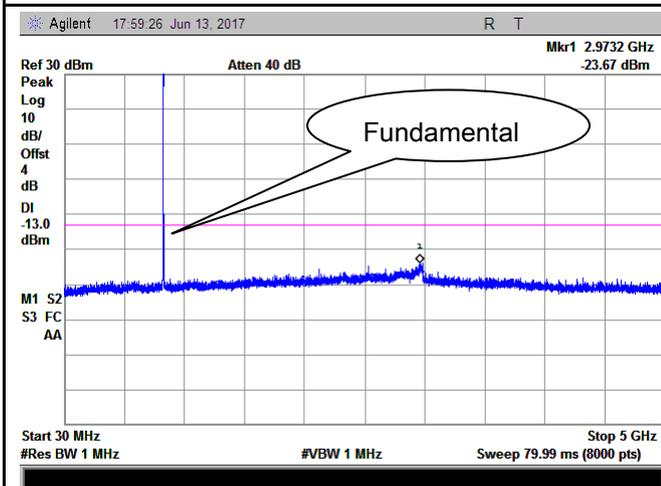
GSM 850 - Low Channel-1

GSM 850 - Low Channel-2



GSM 850 Middle Channel-1

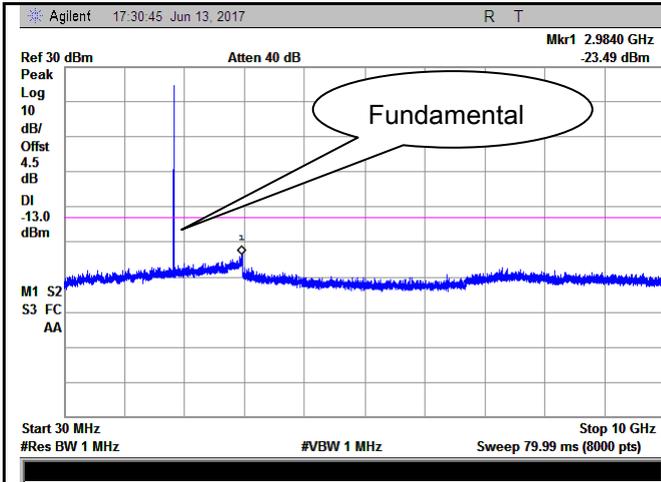
GSM 850 Middle Channel-2



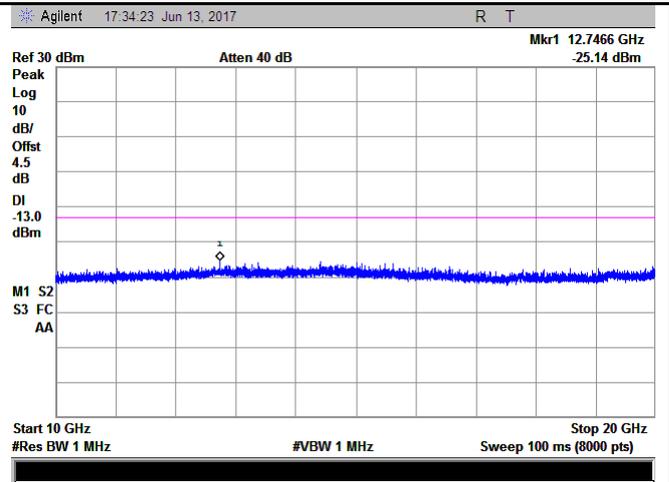
GSM 850 - High Channel-1

GSM 850 - High Channel-2

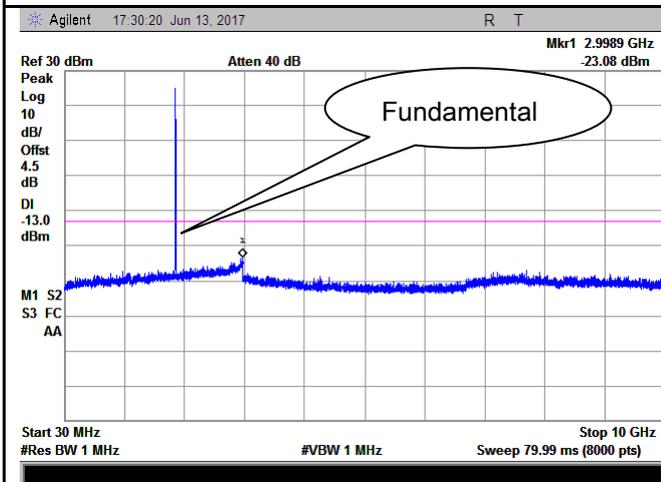
PCS Band (Part24E) result



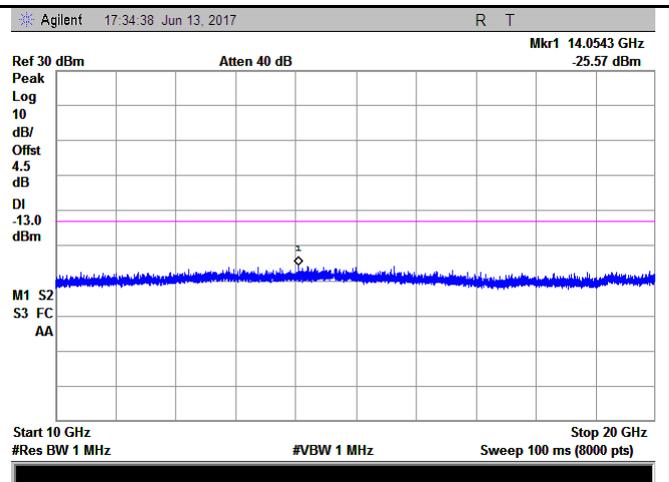
PCS1900 - Low Channel-1



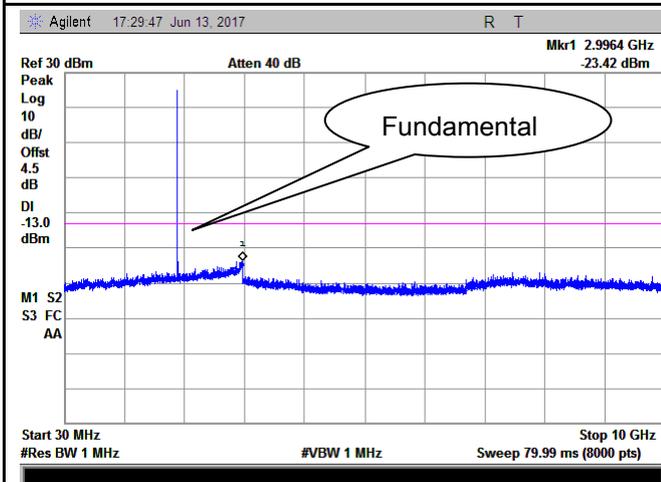
PCS 1900 - Low Channel-2



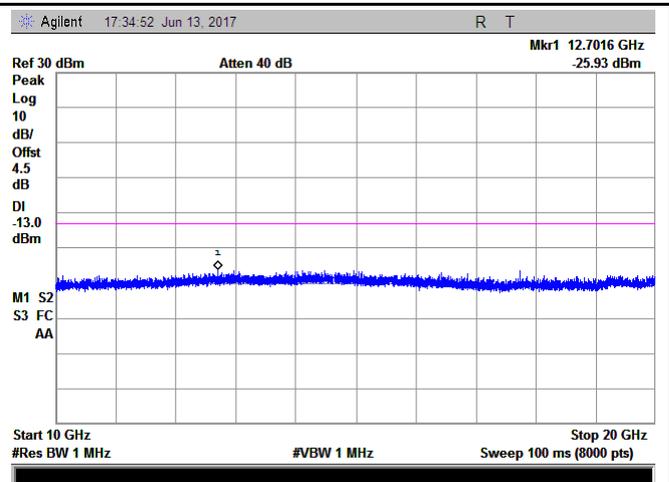
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2

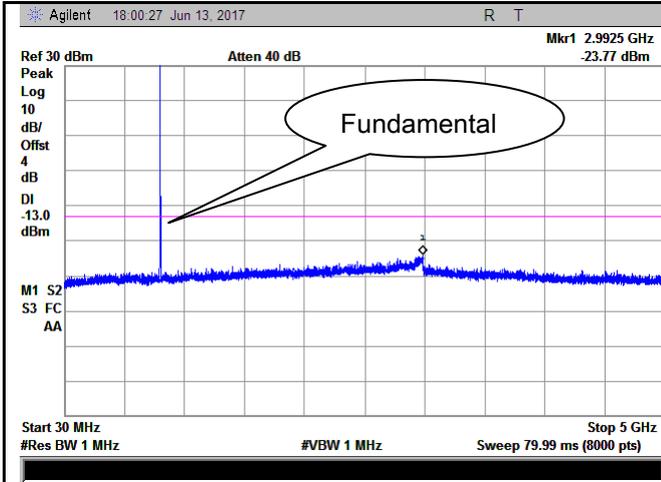


PCS1900 - High Channel-1

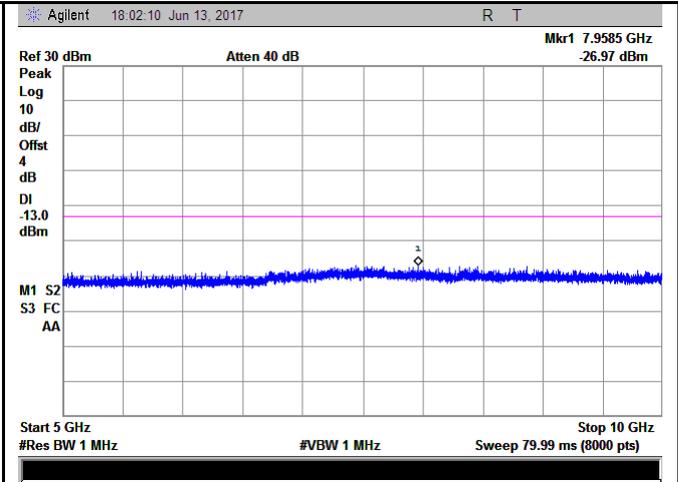


PCS 1900 - High Channel-2

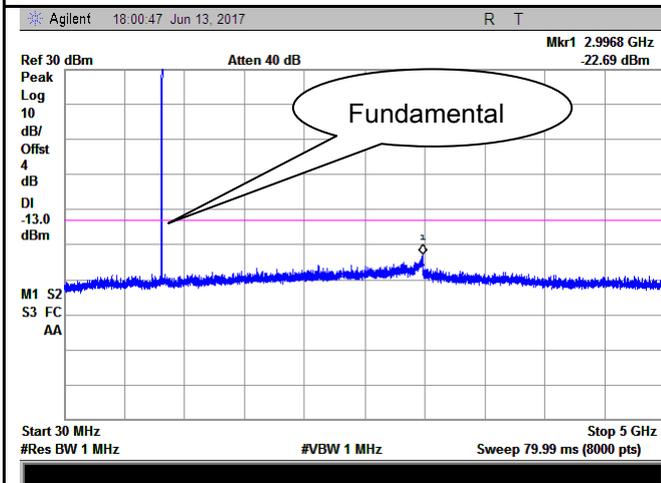
**EGPRS (MCS 5):
Cellular Band (Part 22H) result**



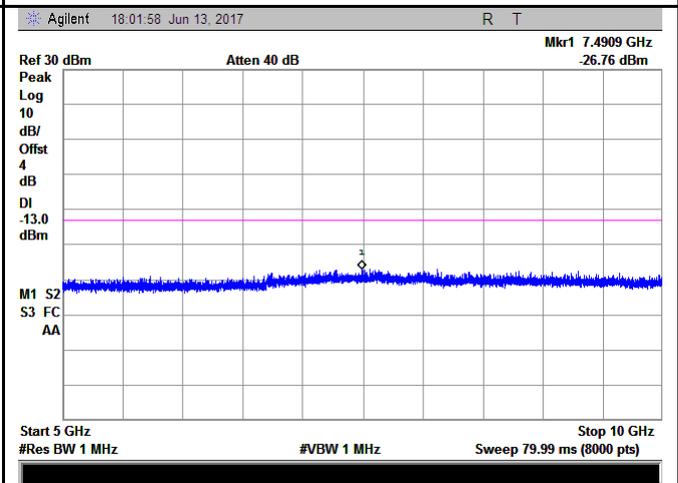
GSM 850 - Low Channel-1



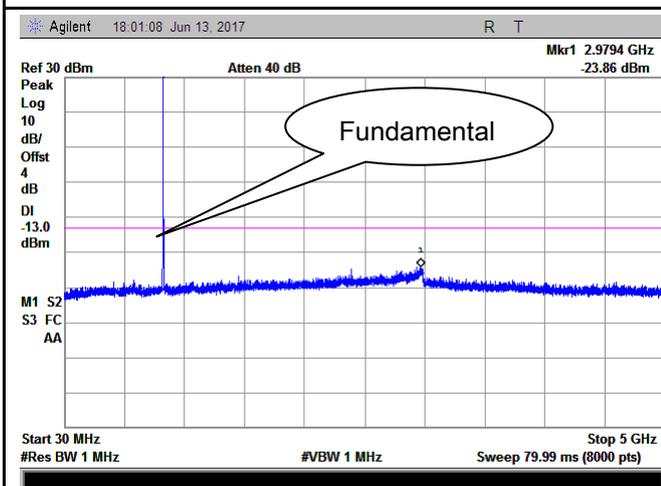
GSM 850 - Low Channel-2



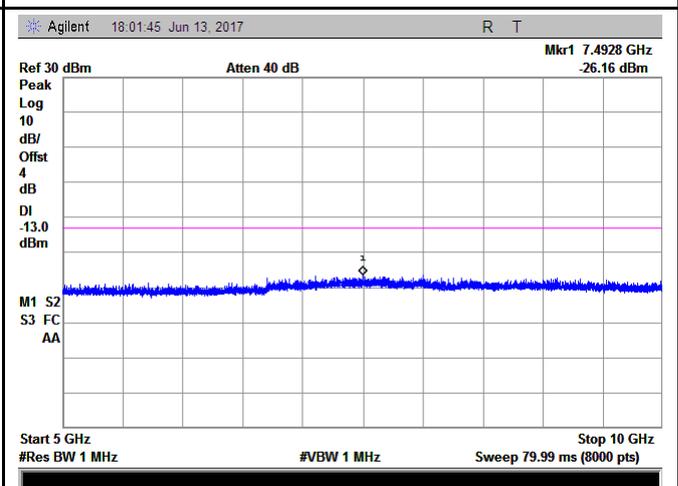
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

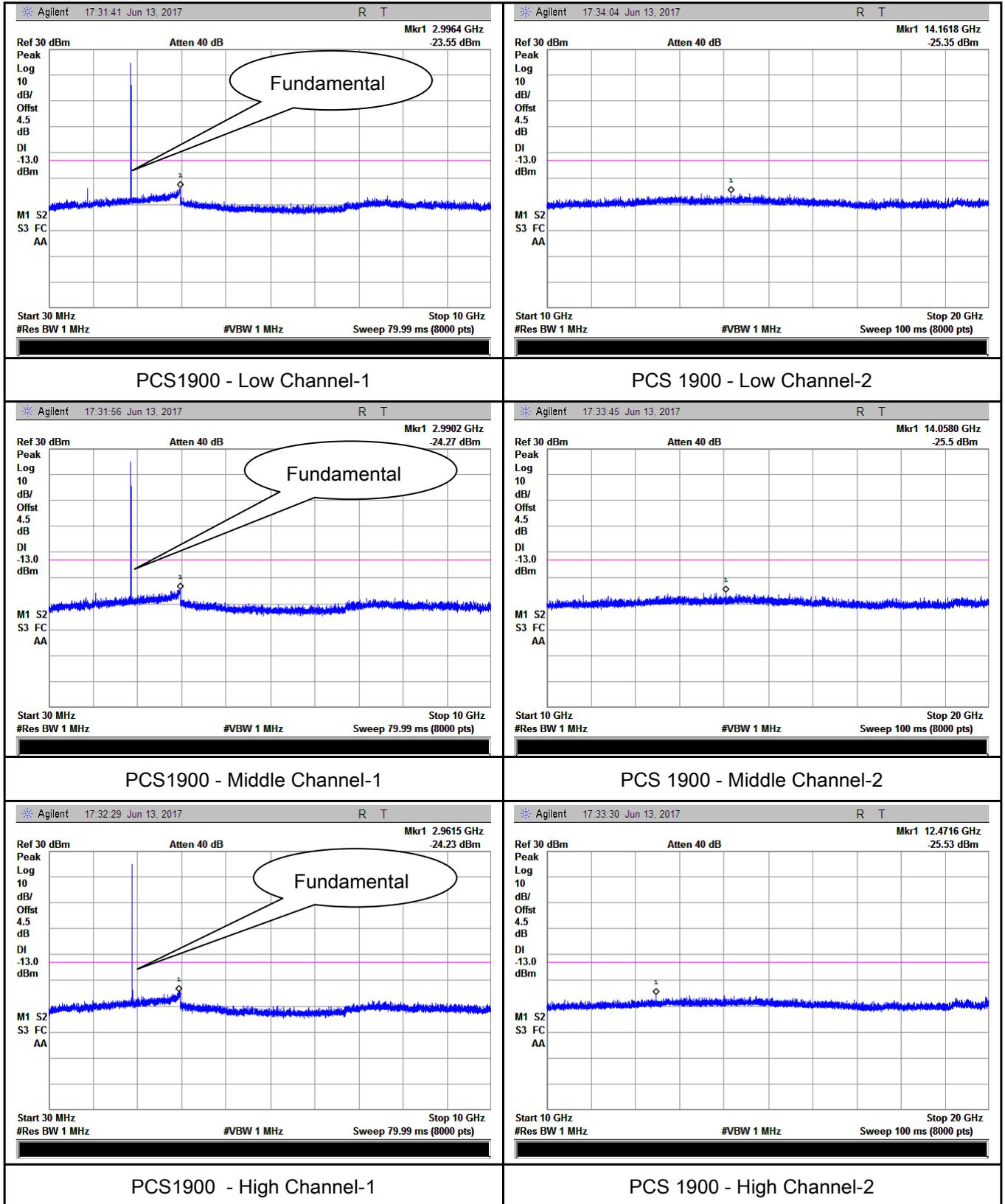


GSM 850 - High Channel-1



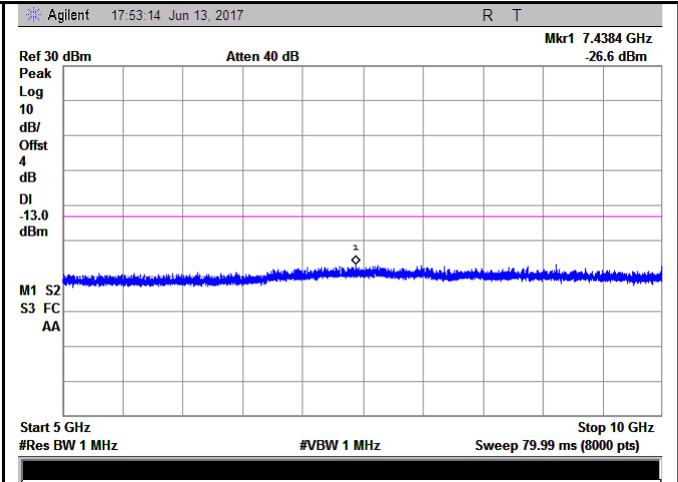
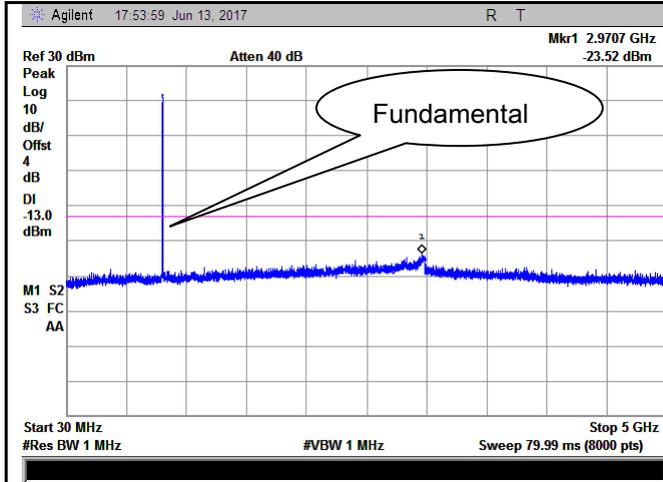
GSM 850 - High Channel-2

PCS Band (Part24E) result



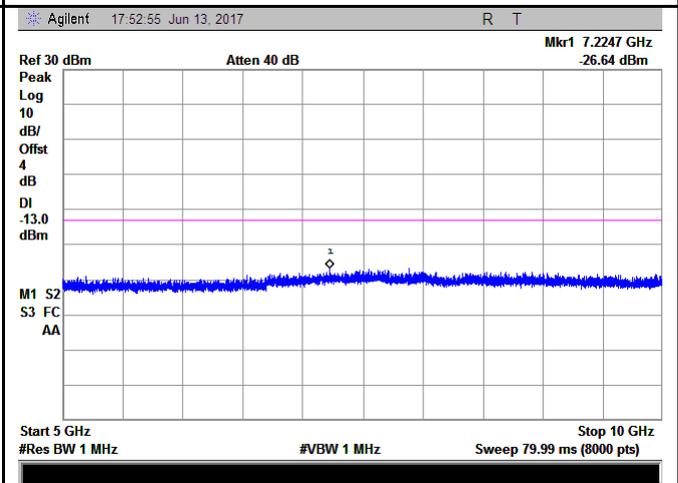
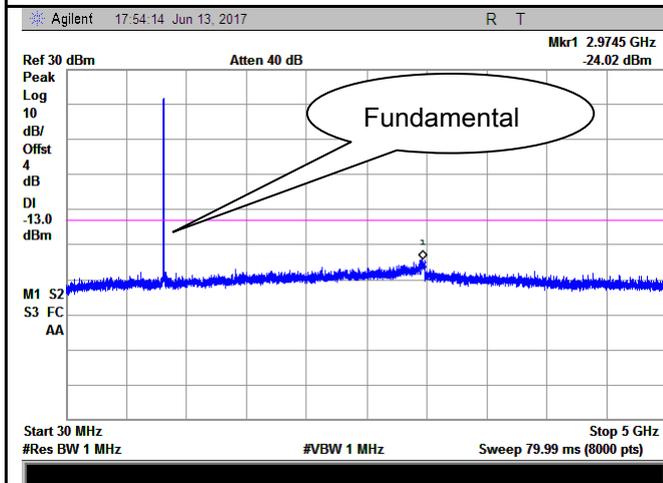
RMC

UMTS-FDD Band V (Part 22H)



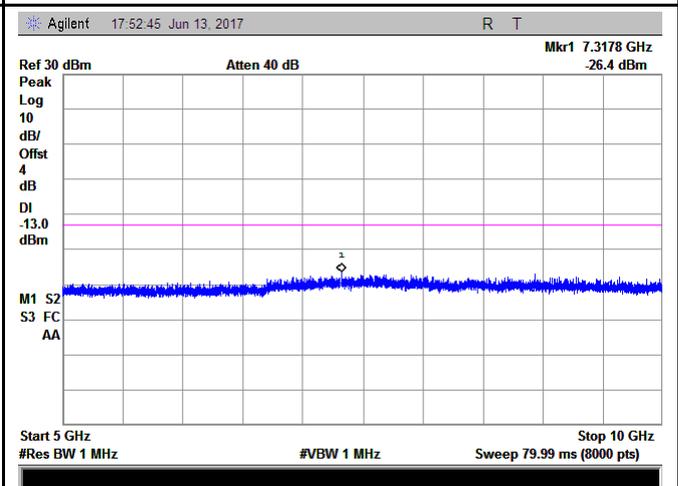
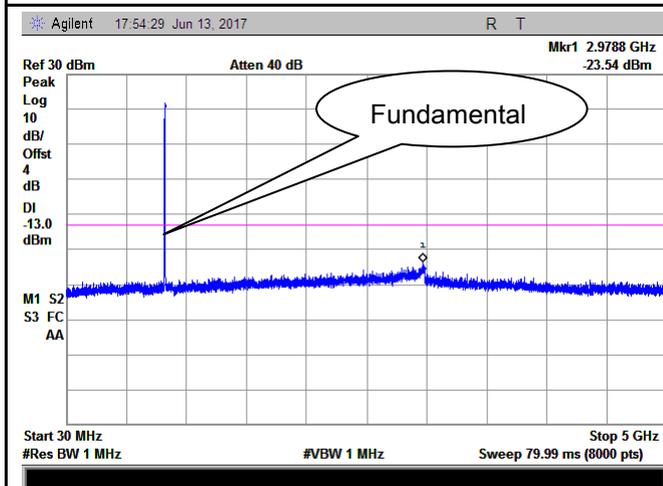
Band V - Low Channel-1

Band V - Low Channel-2



Band V - Middle Channel-1

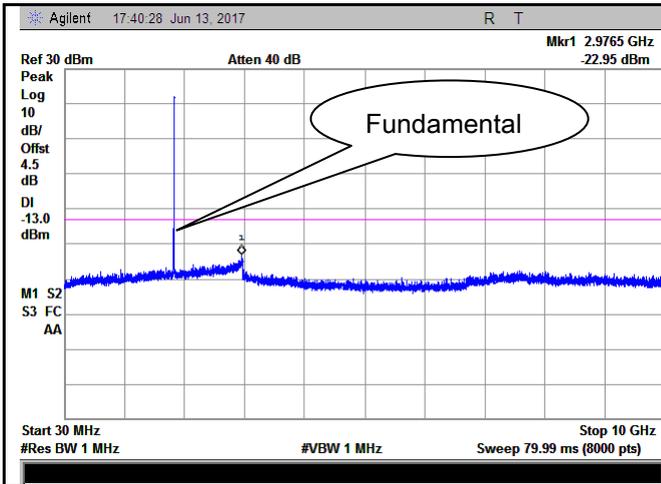
Band V - Middle Channel-2



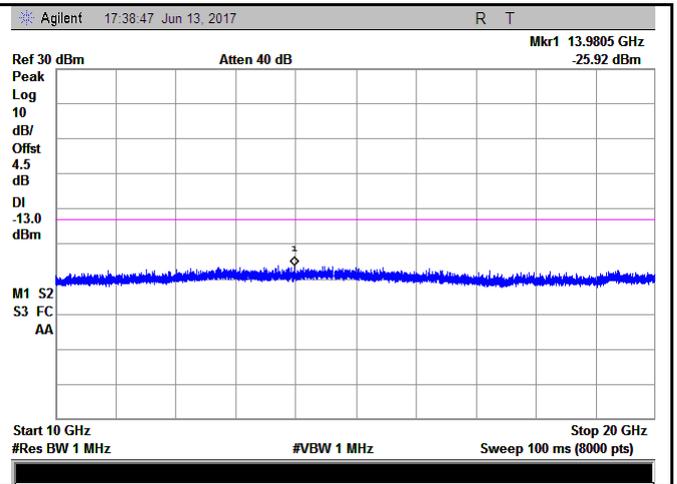
Band V - High Channel-1

Band V - High Channel-2

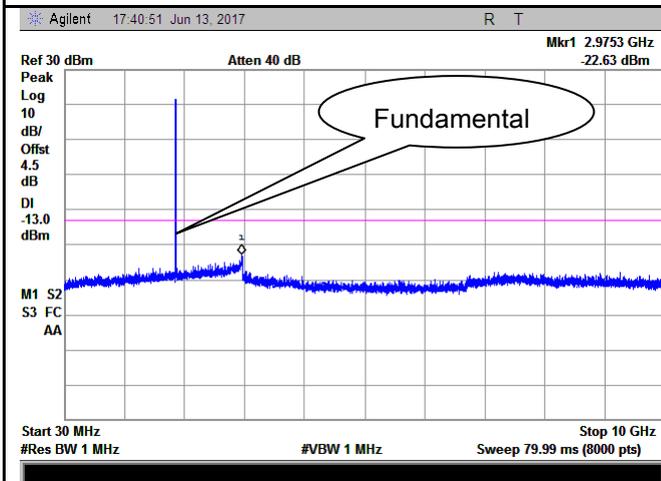
UMTS-FDD Band II (Part 24E)



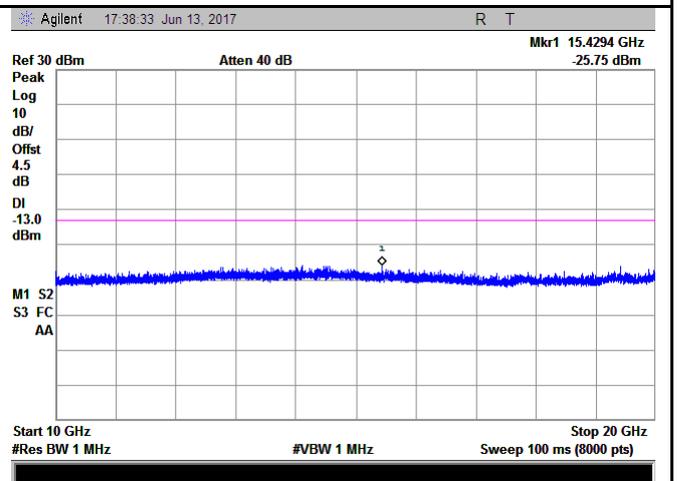
Band II - Low Channel-1



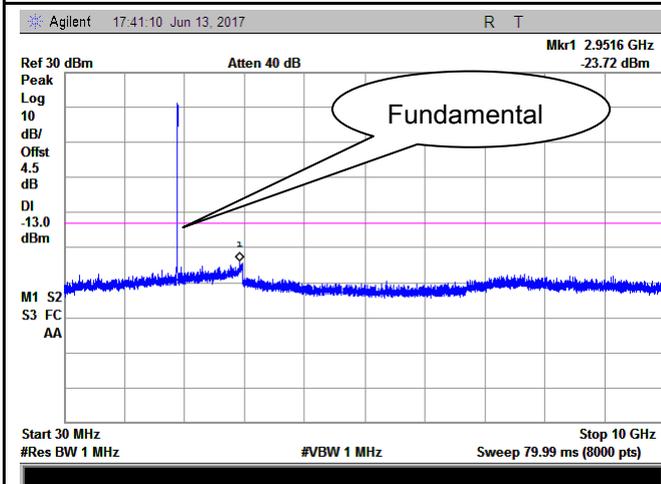
Band II - Low Channel-2



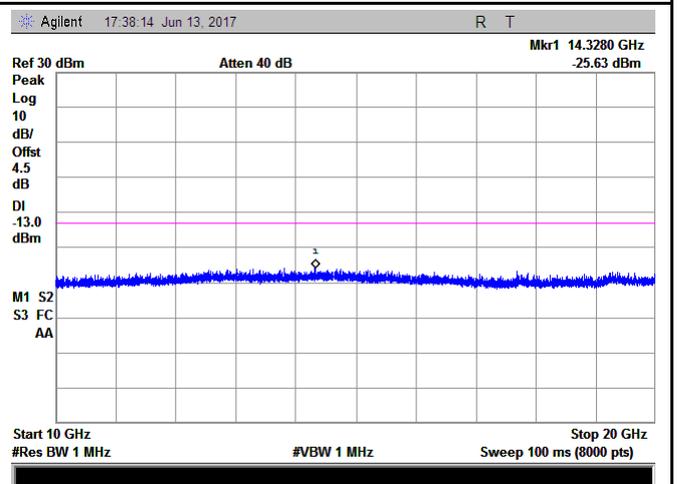
Band II - Middle Channel-1



Band II - Middle Channel-2

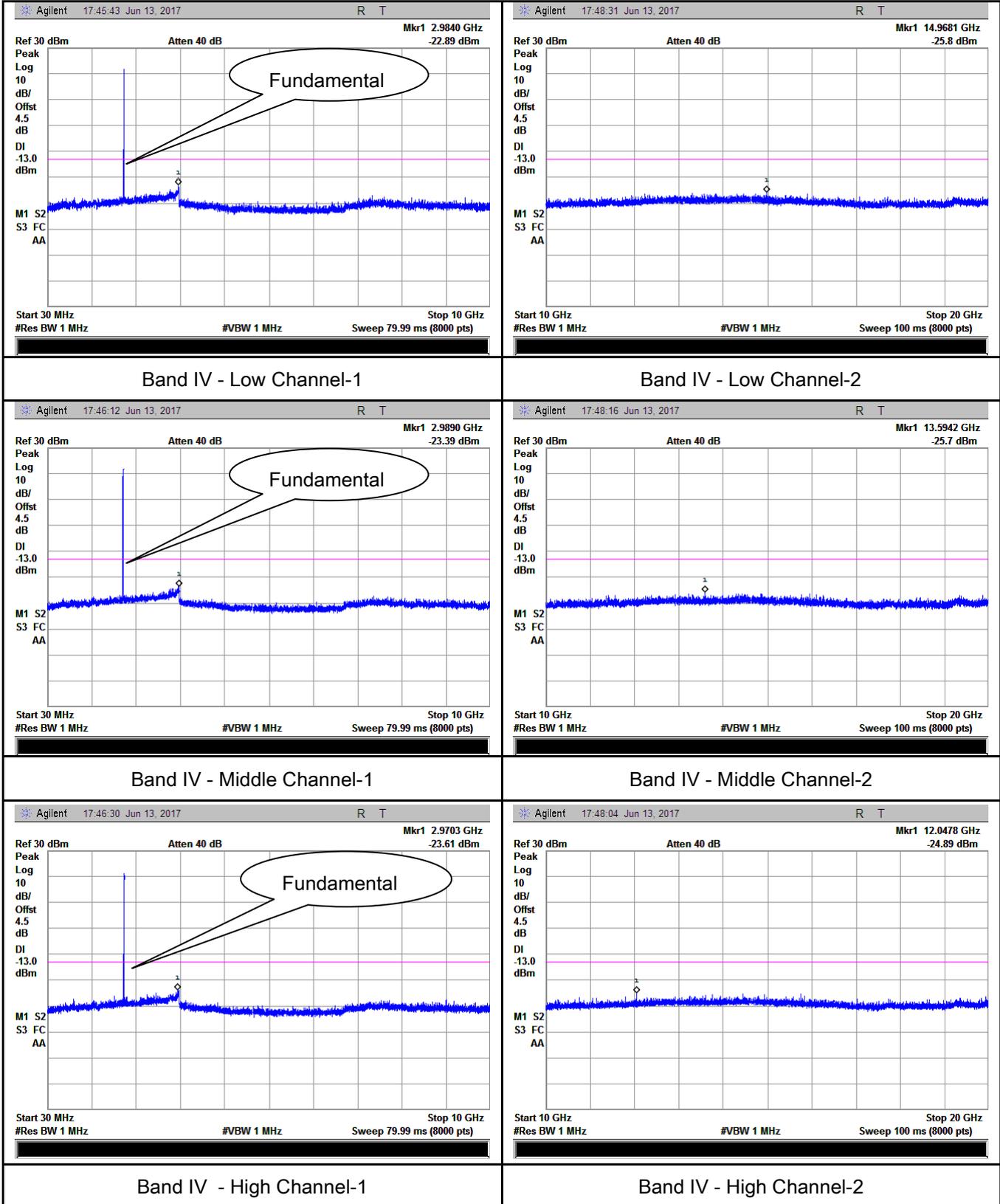


Band II - High Channel-1



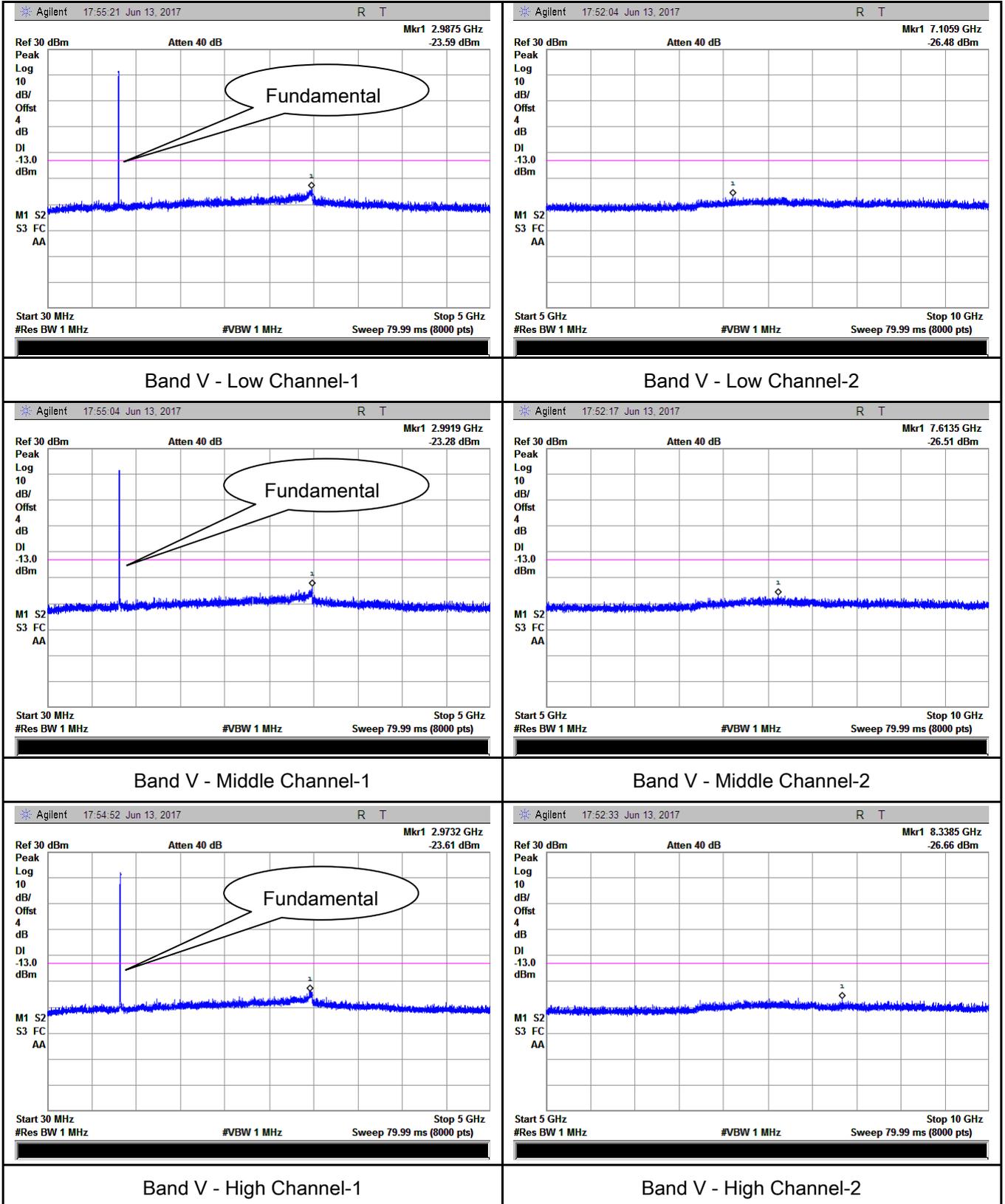
Band II - High Channel-2

UMTS-FDD Band IV (Part 27)

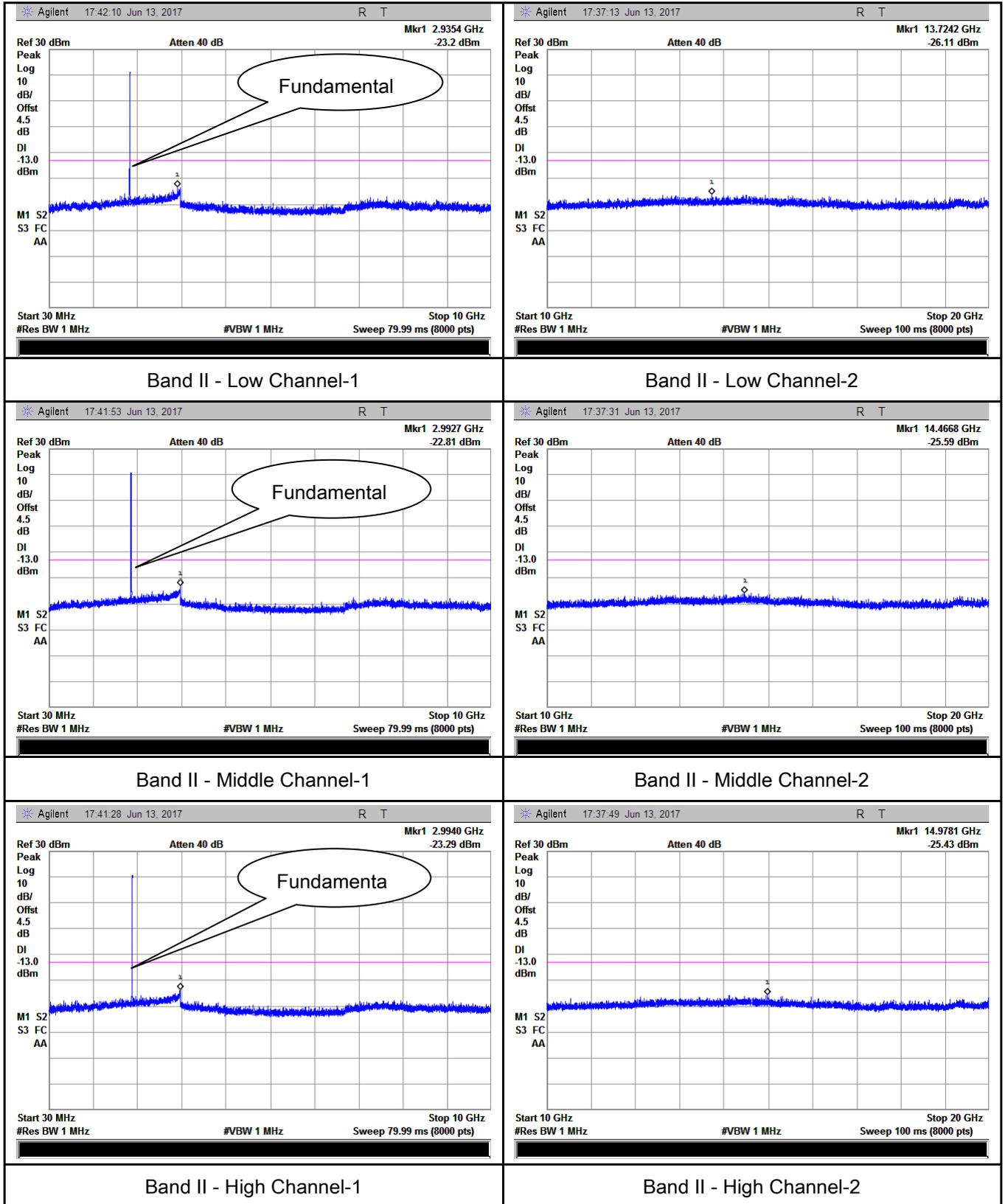


HSUPA:

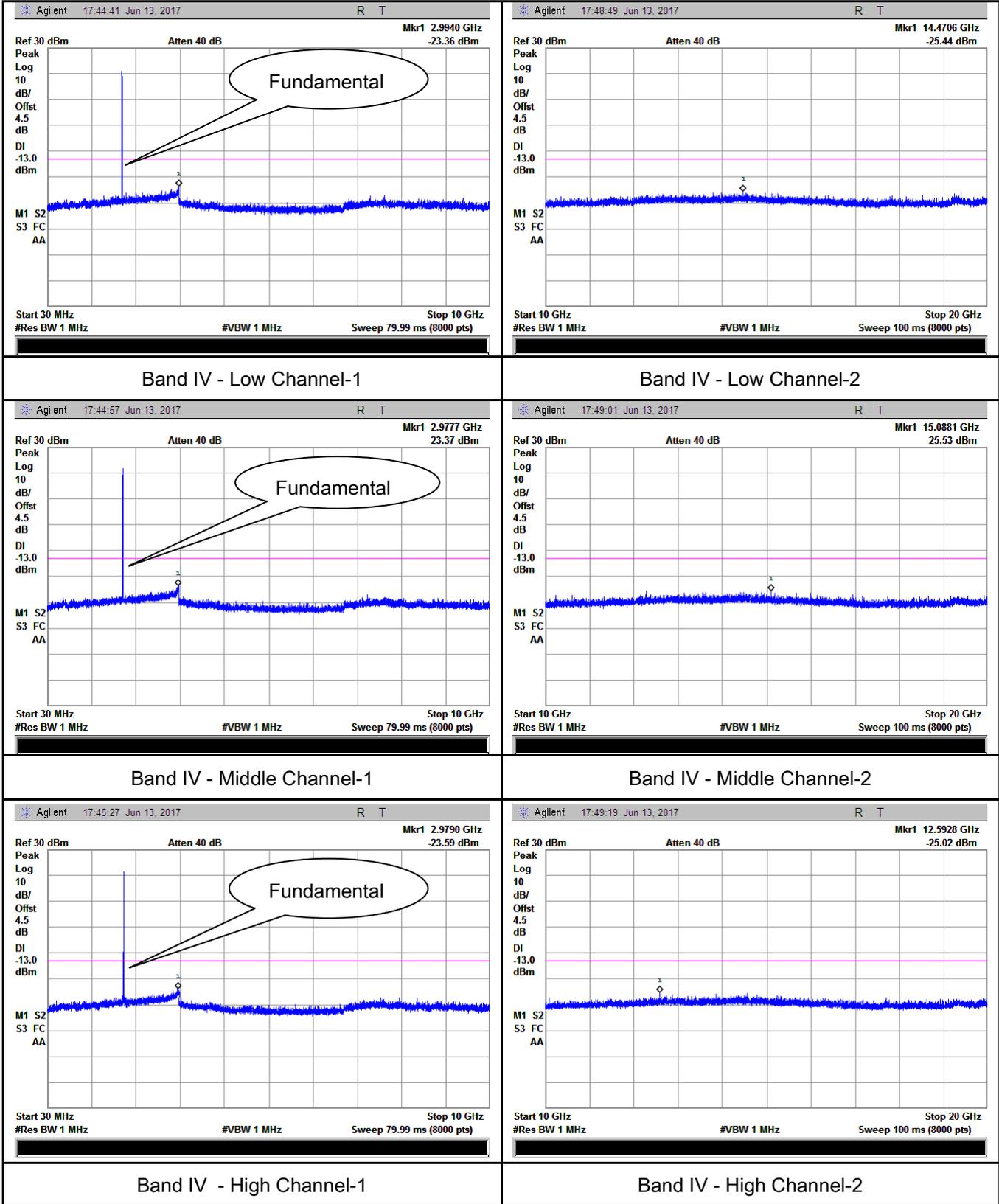
UMTS-FDD Band V (Part 22H)



UMTS-FDD Band II (Part 24E)

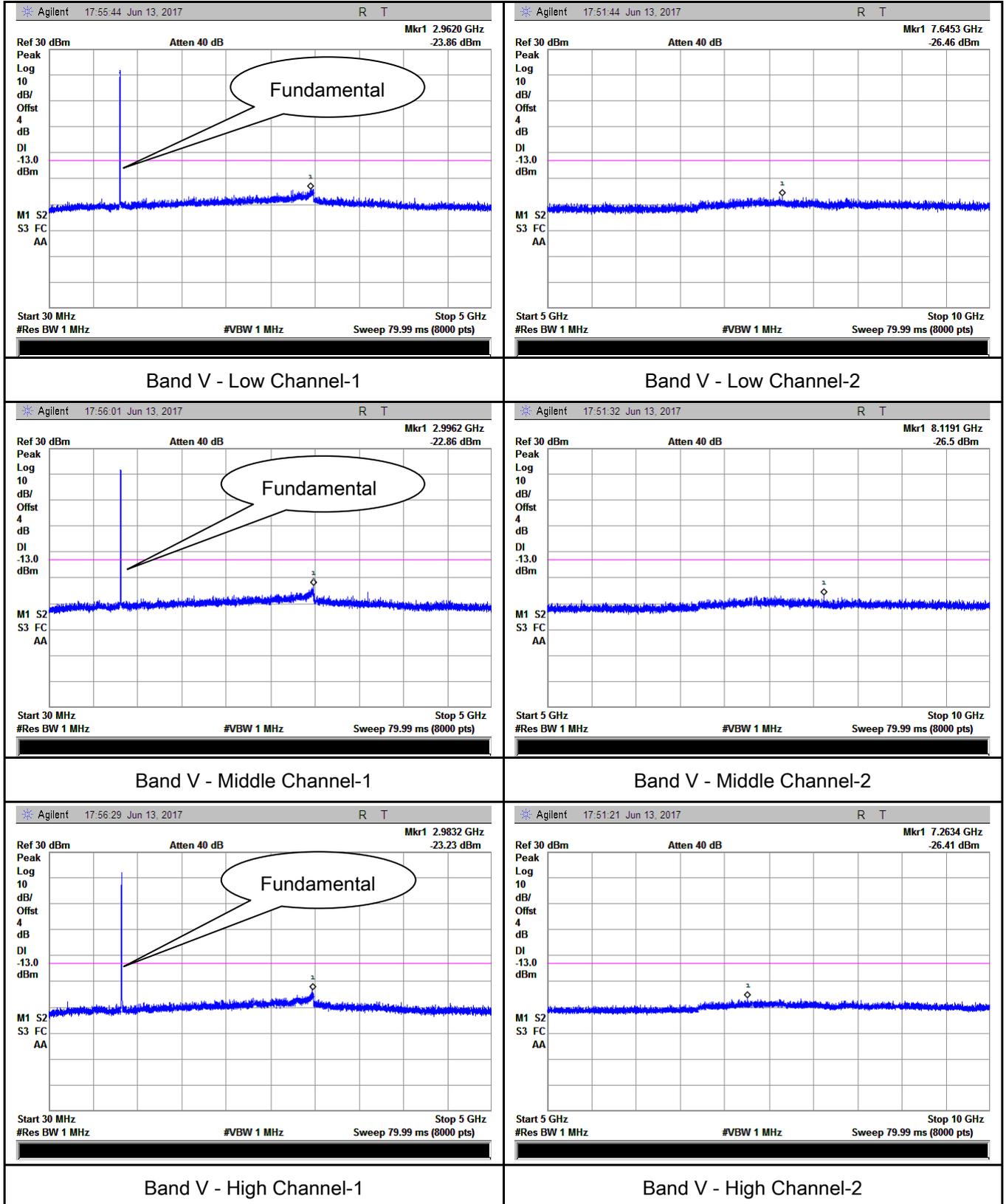


UMTS-FDD Band IV (Part 27)

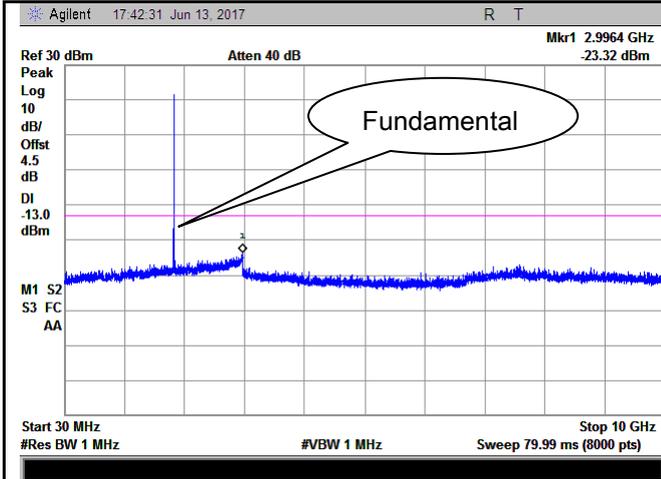


HSDPA:

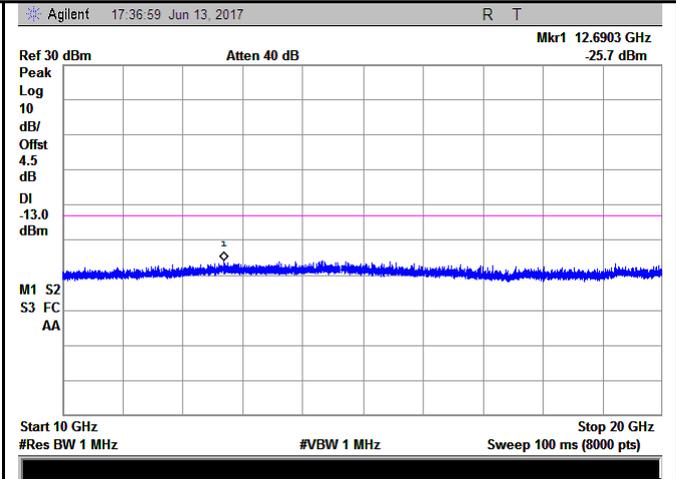
UMTS-FDD Band V (Part 22H)



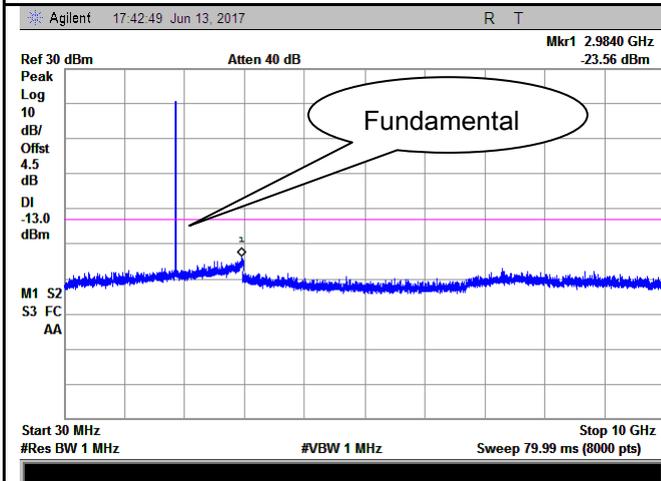
UMTS-FDD Band II (Part 24E)



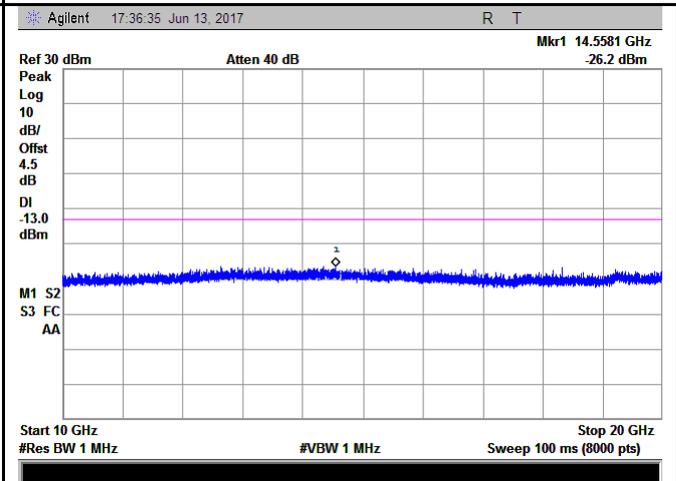
Band II - Low Channel-1



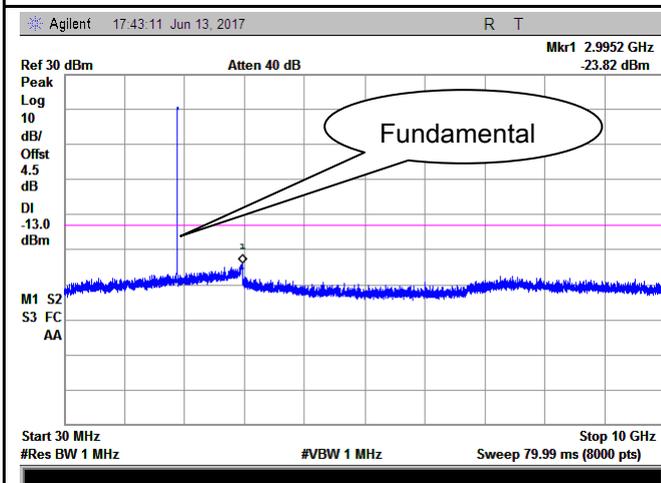
Band II - Low Channel-2



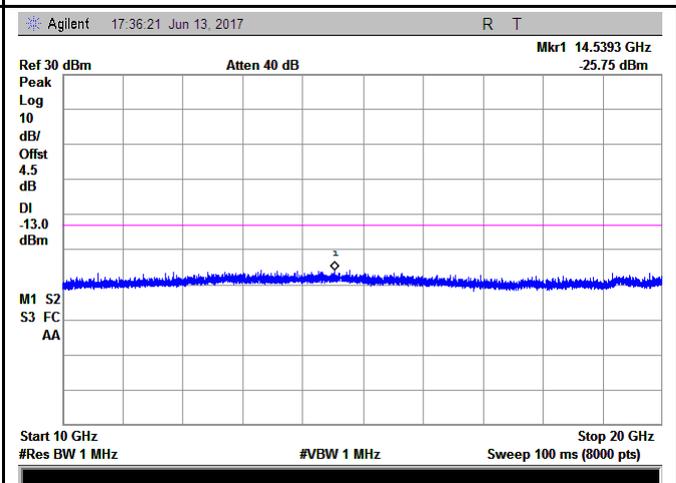
Band II - Middle Channel-1



Band II - Middle Channel-2

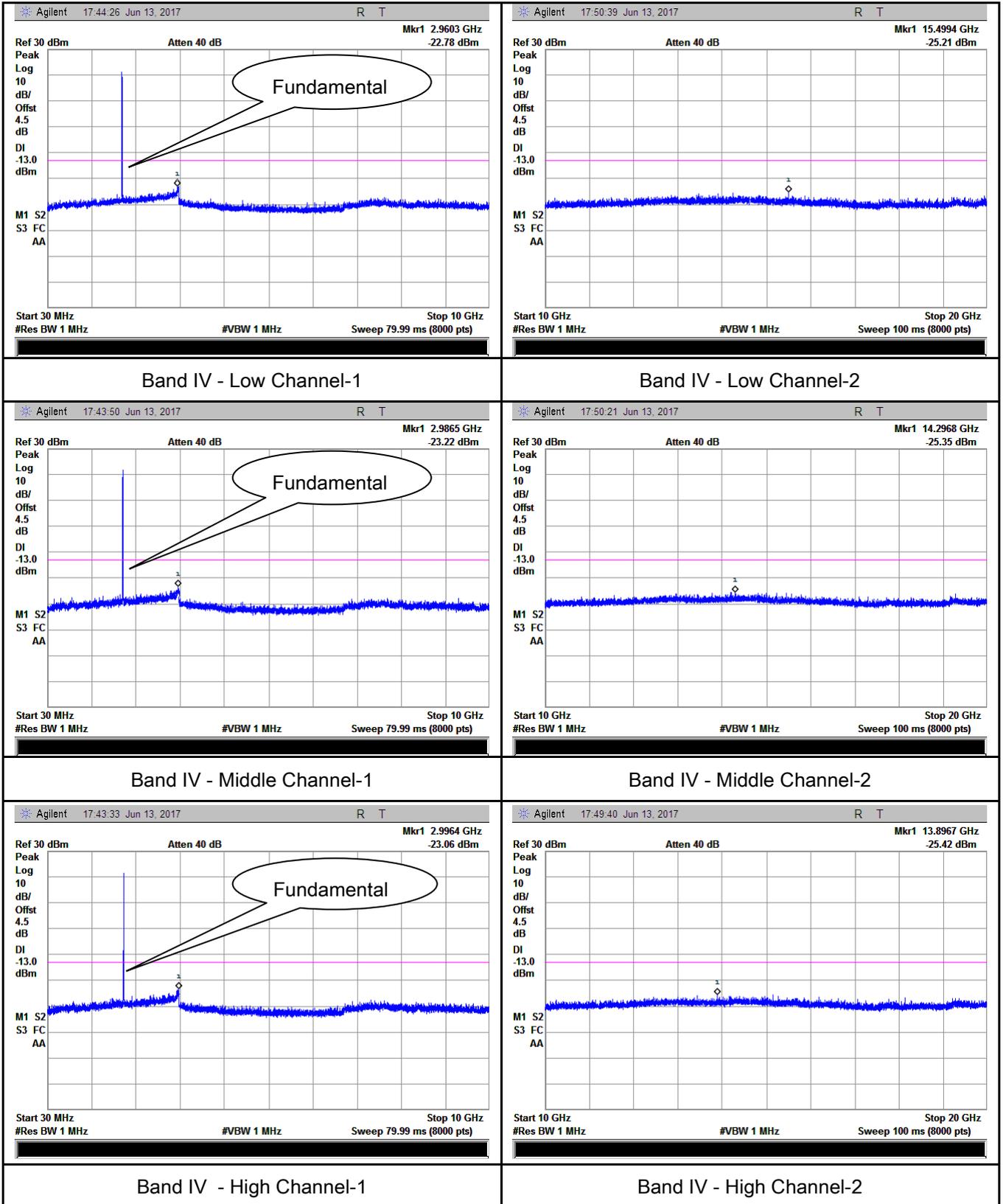


Band II - High Channel-1



Band II - High Channel-2

UMTS-FDD Band IV (Part 27)

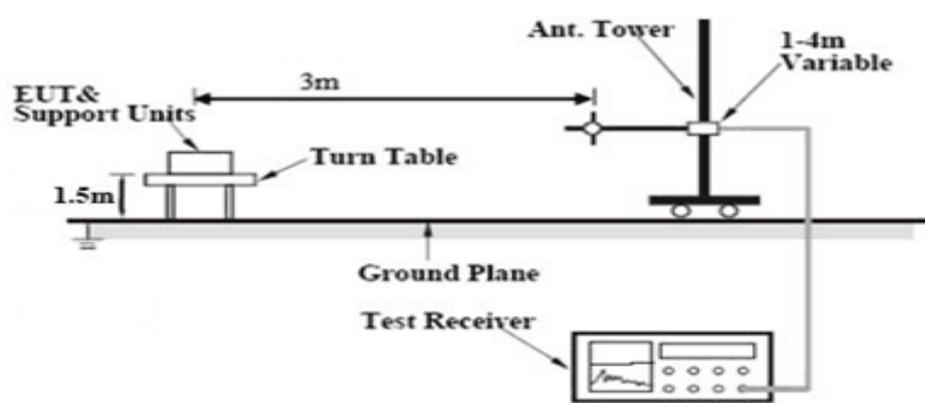


6.6 Spurious Radiated Emissions

Temperature	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 2017
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	
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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. <p>Sample Calculation:</p> <p>EUT Field Strength = Raw Amplitude (dBμV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)</p>
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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	-44.19	H	7.95	0.78	-37.02	-13	-24.02
327.4	-52.98	V	6.4	0.26	-46.84	-13	-33.84
605.2	-53.62	H	6.8	0.37	-47.19	-13	-34.19

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	-46.52	V	7.95	0.78	-39.35	-13	-26.35
1673.2	-43.87	H	7.95	0.78	-36.7	-13	-23.7
326.9	-52.87	V	6.4	0.26	-46.73	-13	-33.73
601.2	-53.16	H	6.8	0.37	-46.73	-13	-33.73

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	-44.15	V	7.95	0.78	-36.98	-13	-23.98
1697.6	-43.97	H	7.95	0.78	-36.8	-13	-23.8
325.4	-53.21	V	6.4	0.26	-47.07	-13	-34.07
603.5	-52.68	H	6.8	0.37	-46.25	-13	-33.25

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	-49.11	V	10.25	2.73	-41.59	-13	-28.59
3700.4	-49.23	H	10.25	2.73	-41.71	-13	-28.71
324.8	-53.87	V	6.4	0.26	-47.73	-13	-34.73
600.2	-54.21	H	6.8	0.37	-47.78	-13	-34.78

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	-48.48	V	10.25	2.73	-40.96	-13	-27.96
3760	-49.62	H	10.25	2.73	-42.1	-13	-29.1
322.9	-53.62	V	6.4	0.26	-47.48	-13	-34.48
603.6	-53.47	H	6.8	0.37	-47.04	-13	-34.04

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	-48.12	V	10.36	2.73	-40.49	-13	-27.49
3819.6	-49.37	H	10.36	2.73	-41.74	-13	-28.74
324.8	-53.84	V	6.4	0.26	-47.7	-13	-34.7
603.1	-52.03	H	6.8	0.37	-45.6	-13	-32.6

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	-46.79	V	7.95	0.78	-39.62	-13	-26.62
1652.8	-45.82	H	7.95	0.78	-38.65	-13	-25.65
329.6	-52.73	V	6.4	0.26	-46.59	-13	-33.59
603.5	-53.16	H	6.8	0.37	-46.73	-13	-33.73

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	-46.23	V	7.95	0.78	-39.06	-13	-26.06
1670	-45.79	H	7.95	0.78	-38.62	-13	-25.62
328.4	-52.31	V	6.4	0.26	-46.17	-13	-33.17
605.4	-53.41	H	6.8	0.37	-46.98	-13	-33.98

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	-46.92	V	7.95	0.78	-39.75	-13	-26.75
1693.2	-45.86	H	7.95	0.78	-38.69	-13	-25.69
329.1	-53.11	V	6.4	0.26	-46.97	-13	-33.97
607.3	-53.02	H	6.8	0.37	-46.59	-13	-33.59

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	-49.87	V	10.25	2.73	-42.35	-13	-29.35
3704.8	-49.86	H	10.25	2.73	-42.34	-13	-29.34
324.6	-54.21	V	6.4	0.26	-48.07	-13	-35.07
607.8	-53.62	H	6.8	0.37	-47.19	-13	-34.19

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	-49.13	V	10.25	2.73	-41.61	-13	-28.61
3760	-50.23	H	10.25	2.73	-42.71	-13	-29.71
322.1	-54.03	V	6.4	0.26	-47.89	-13	-34.89
601.5	-53.64	H	6.8	0.37	-47.21	-13	-34.21

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	-50.02	V	10.36	2.73	-42.39	-13	-29.39
3815.2	-49.86	H	10.36	2.73	-42.23	-13	-29.23
322.9	-53.77	V	6.4	0.26	-47.63	-13	-34.63
604.8	-54.13	H	6.8	0.37	-47.7	-13	-34.7

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	-45.79	V	10.07	2.52	-38.24	-13	-25.24
3424.8	-48.62	H	10.07	2.52	-41.07	-13	-28.07
320.6	-57.92	V	6.4	0.26	-51.78	-13	-38.78
741.6	-52.63	H	7.1	0.42	-45.95	-13	-32.95

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	-46.26	V	10.09	2.52	-38.69	-13	-25.69
3480	-46.11	H	10.09	2.52	-38.54	-13	-25.54
326.5	-58.32	V	6.4	0.26	-52.18	-13	-39.18
735.4	-53.79	H	7.1	0.42	-47.11	-13	-34.11

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	-45.91	V	10.09	2.52	-38.34	-13	-25.34
3505.2	-45.73	H	10.09	2.52	-38.16	-13	-25.16
325.9	-57.16	V	6.4	0.26	-51.02	-13	-38.02
731.4	-52.31	H	7.1	0.42	-45.63	-13	-32.63

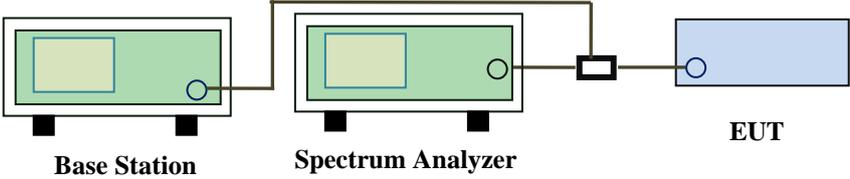
Note:

- 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	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 2017
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) and a Spectrum Analyzer (green box) connected to an EUT (blue box) via a power divider (black box). The Base Station and Spectrum Analyzer are connected to the power divider, which then splits the signal to 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)
823.977	-17.92	-13
849.003	-16.28	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.995	-18.8	-13
1910.004	-15.09	-13

GPRS:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.997	-16.88	-13
849.020	-15.37	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.994	-15.32	-13
1910.018	-17.50	-13

EGPRS (MCS5):

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.996	-16.66	-13
849.020	-17.41	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.996	-18.82	-13
1910.016	-17.48	-13

RCM:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.70	-30.55	-13
849.06	-32.32	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.70	-25.53	-13
1910.26	-21.99	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.69	-26.87	-13
1755.27	-25.31	-13

HSUPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.73	-30.62	-13
849.27	-32.07	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.88	-25.53	-13
1910.27	-21.99	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1708.71	-26.87	-13
1755.22	-25.31	-13

HSDPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.67	-30.51	-13
849.27	-32.15	-13

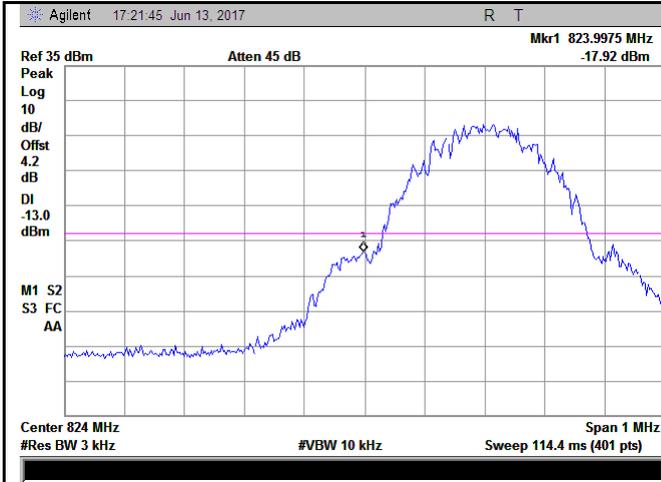
UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.69	-26.50	-13
1910.51	-22.57	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.99	-27.37	-13
1756.19	-25.35	-13

**GSM Voice:
Test Plots**



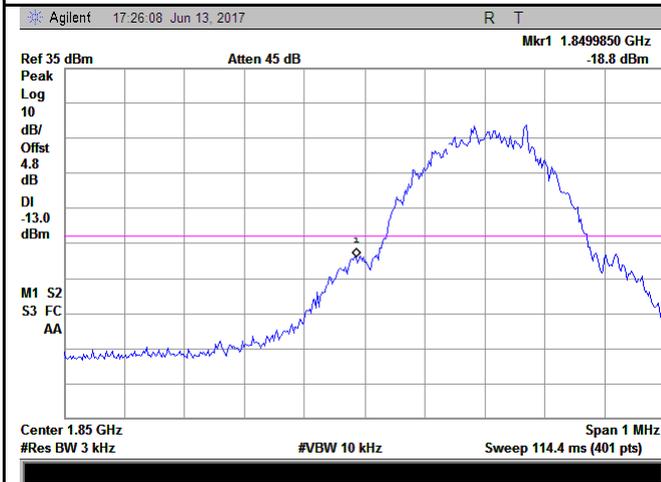
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.16/3)=4.0+0.2=4.2dB



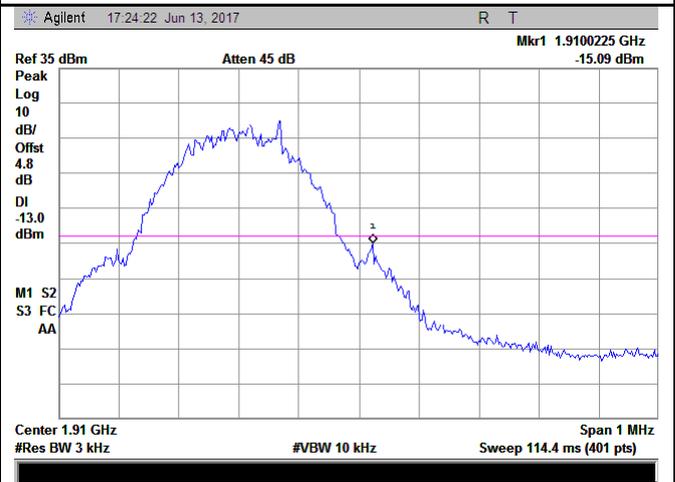
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.17/3)=4.0+0.2=4.2dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.19/3)=4.5+0.3=4.8dB

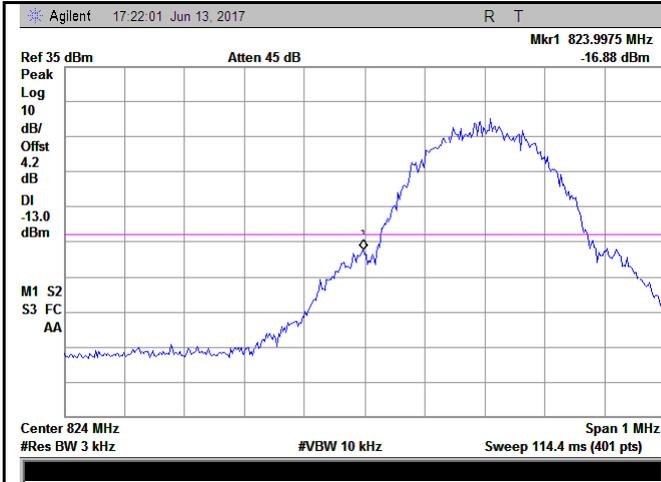


PCS Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.21/3)=4.5+0.3=4.8dB

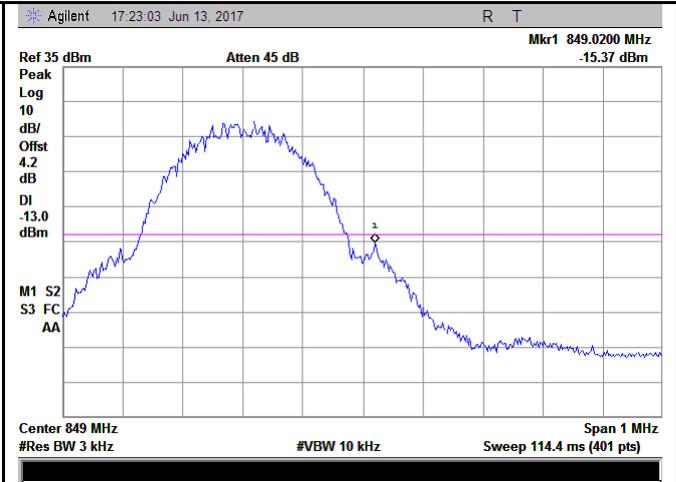
GPRS:

Test Plots



Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.16/3)=4.0+0.2=4.2dB



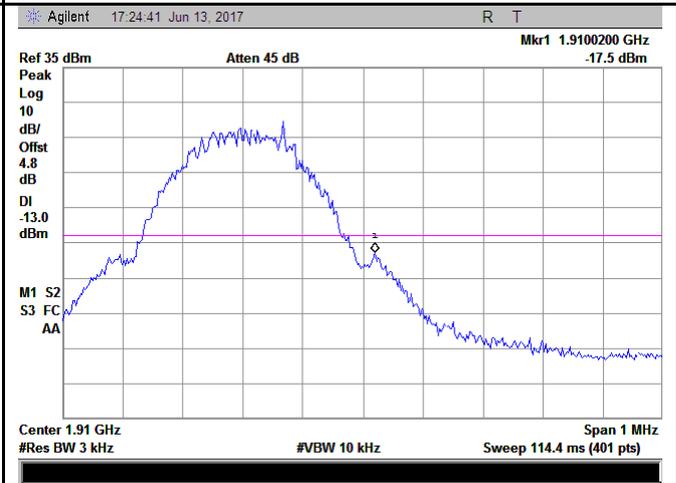
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.15/3)=4.0+0.2=4.2dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(3.23/3)=4.5+0.3=4.8dB

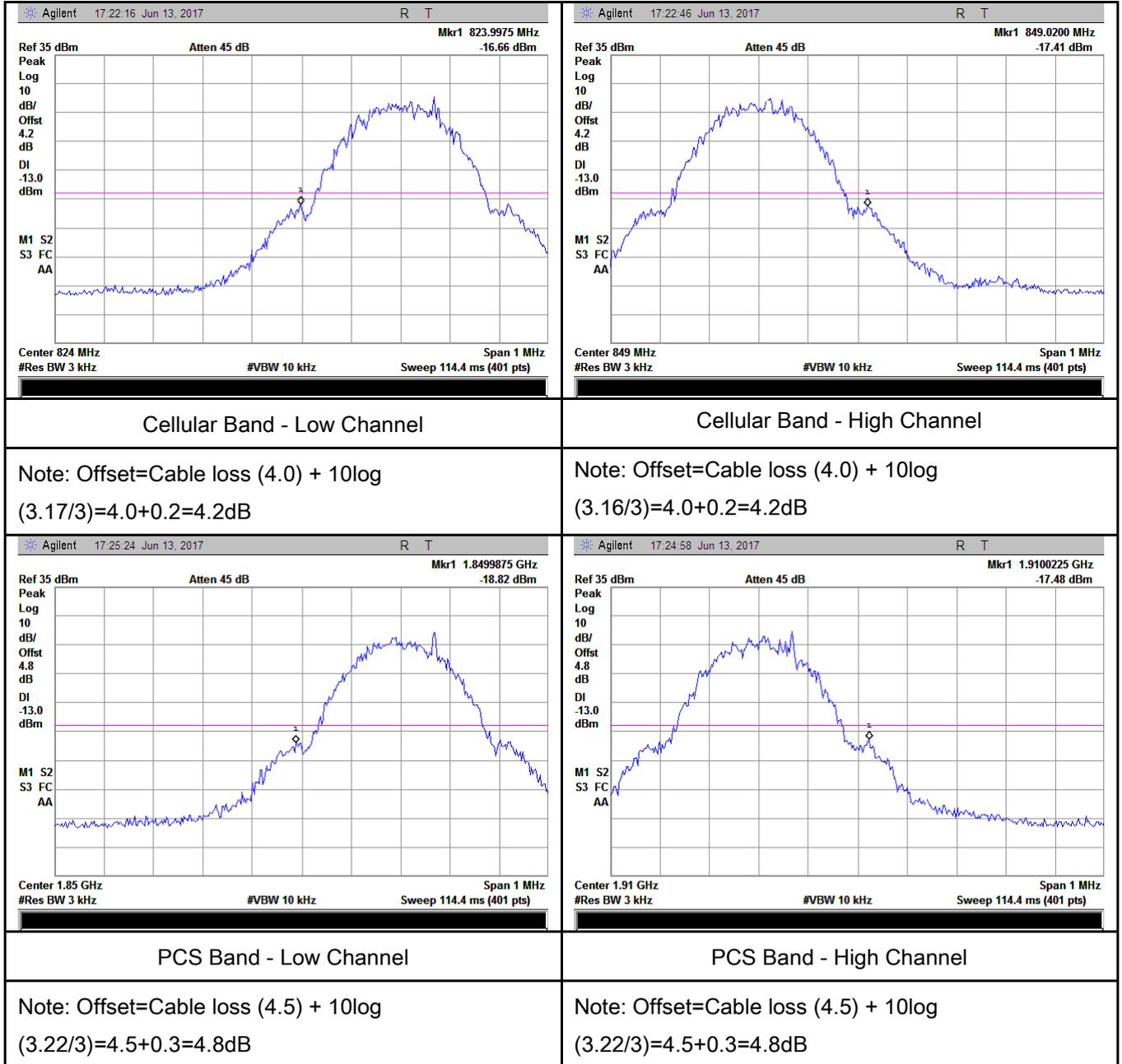


PCS Band - High Channel

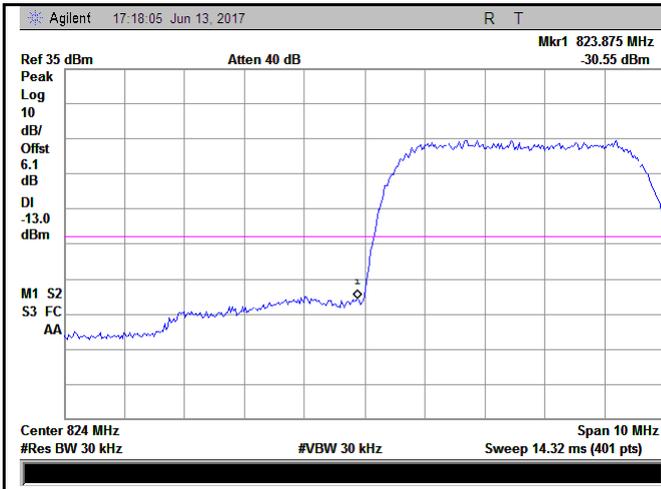
Note: Offset=Cable loss (4.5) + 10log
(3.19/3)=4.5+0.3=4.8dB

EGPRS (MCS5):

Test Plots

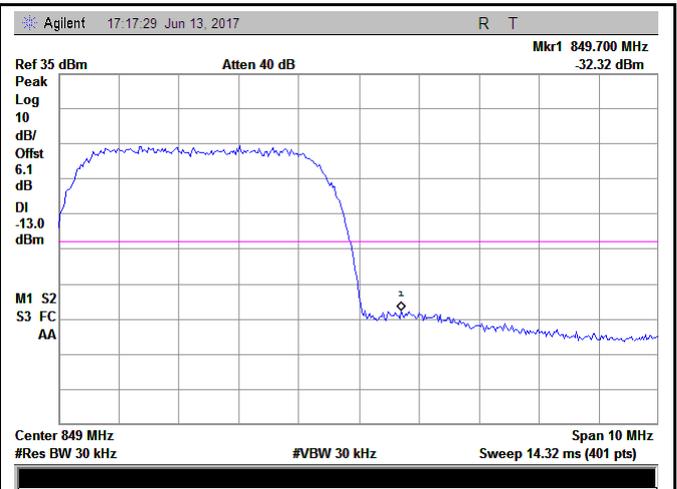


RMC:



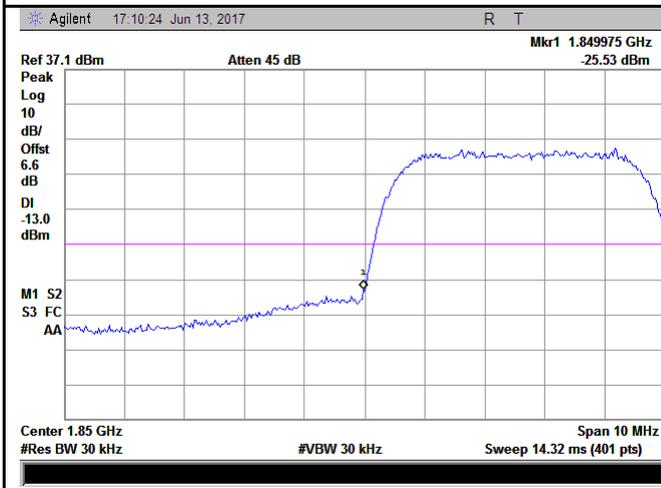
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log
 (49/30)=4.0+2.1=6.1 dB



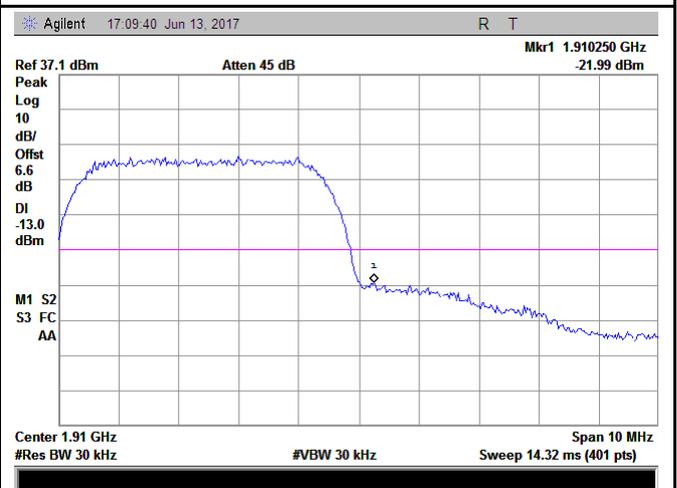
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log
 (49.15/30)=4.0+2.1=6.1 dB



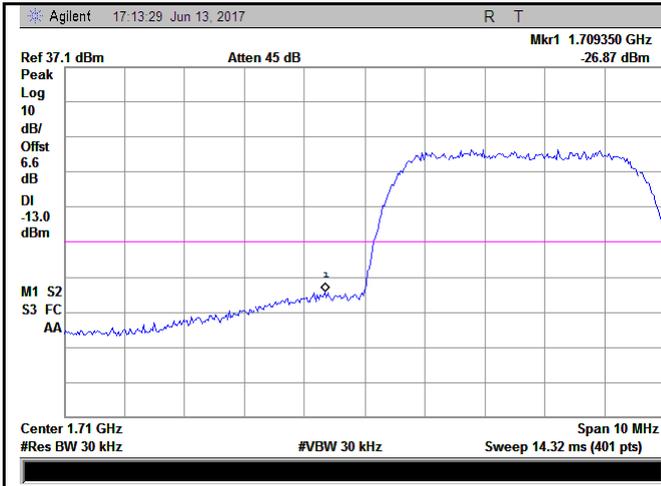
UMTS-FDD Band II - Low Channel

Note: Offset=Cable loss (4.5) + 10log
 (48.72/30)=4.5+2.1=6.6 dB



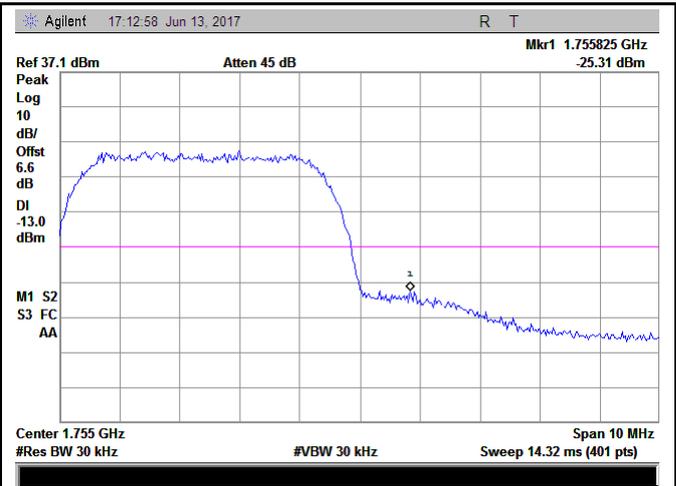
UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log
 (49.14/30)=4.5+2.1=6.6 dB



UMTS-FDD Band IV - Low Channel

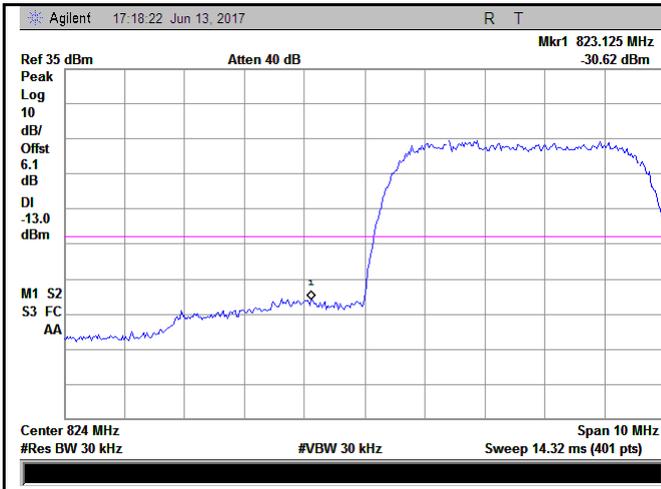
Note: Offset=Cable loss (4.5) + 10log
(48.69/30)=4.5+2.1=6.6 dB



UMTS-FDD Band IV - High Channel

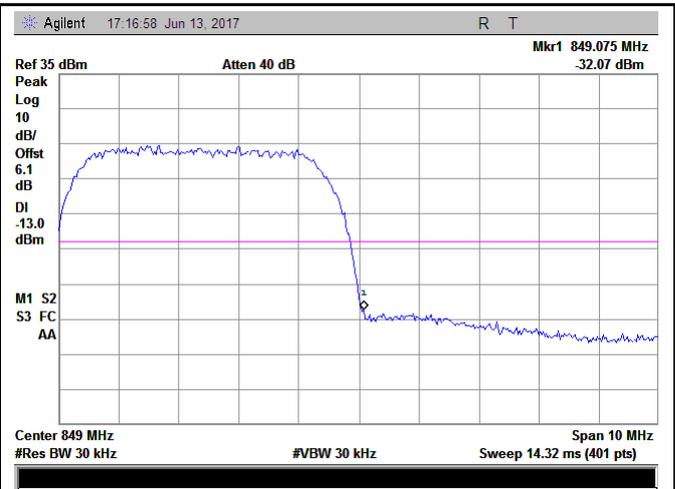
Note: Offset=Cable loss (4.0) + 10log
(49.11/30)=4.5+2.1=6.6 dB

HSUPA:



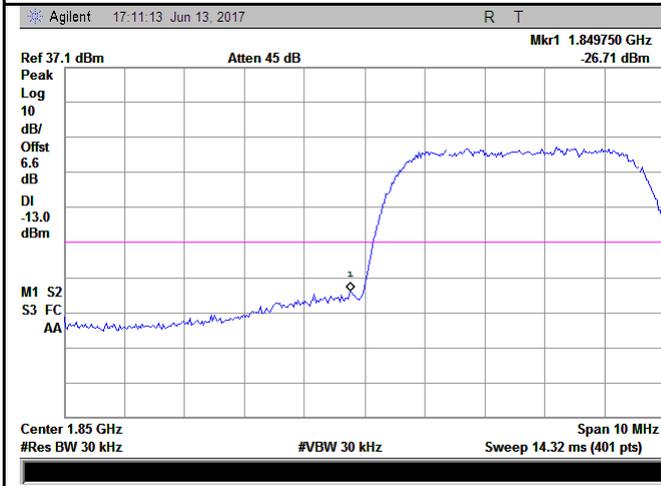
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(48.81/30)=4.0+2.1=6.1 dB



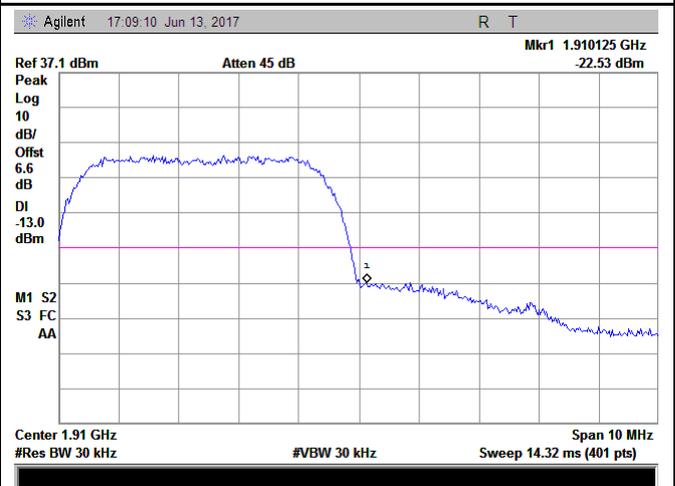
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log
(49.07/30)=4.0+2.1=6.1 dB



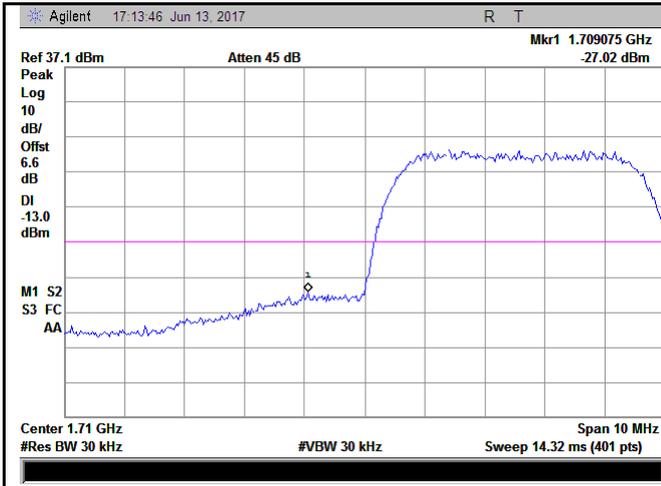
UMTS-FDD Band II - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(49.02/30)=4.5+.2.1=6.6 dB



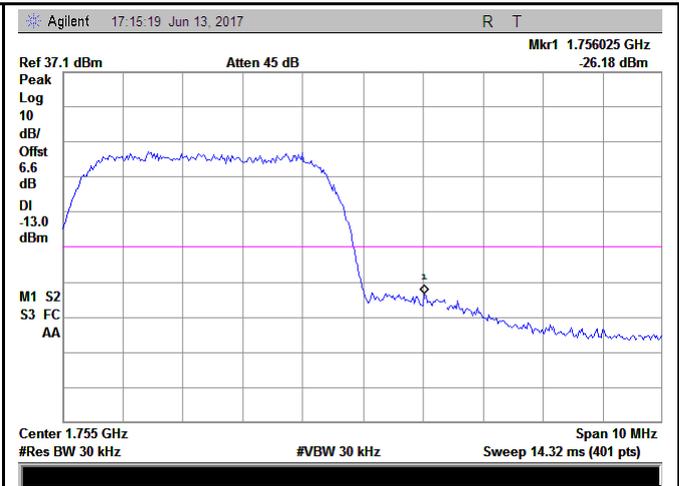
UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log
(48.86/30)=4.5+2.1=6.6 dB



UMTS-FDD Band IV - Low Channel

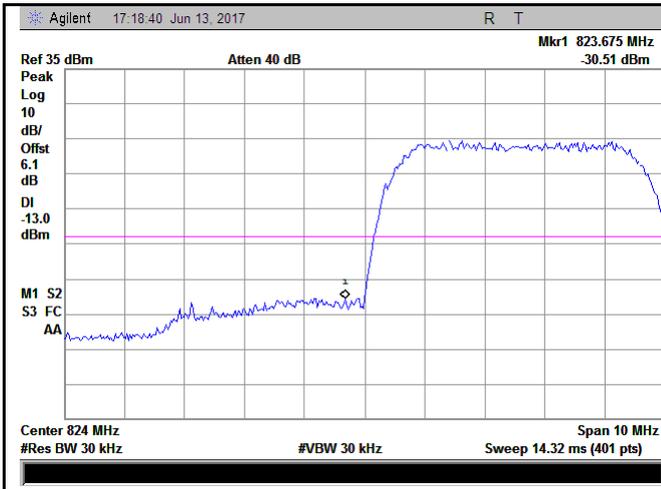
Note: Offset=Cable loss (4.5) + 10log
(49.16/30)=4.5+2.1=6.6 dB



UMTS-FDD Band IV - High Channel

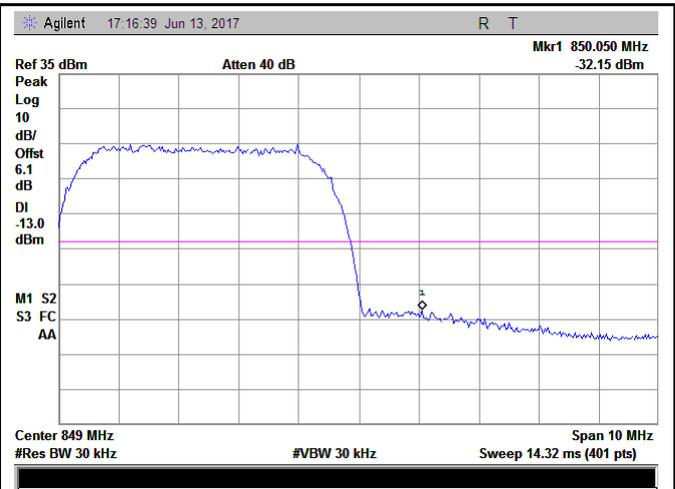
Note: Offset=Cable loss (4.5) + 10log
(48.79/30)=4.5+2.1=6.6 dB

HSDPA:



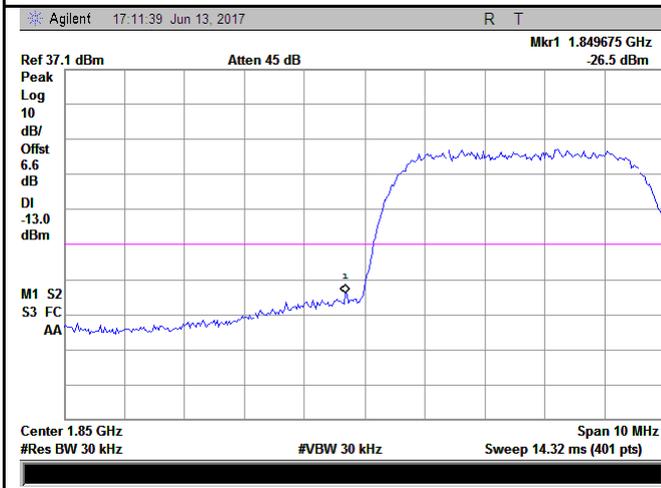
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(48.54/30)=4.0+2.1=6.1 dB



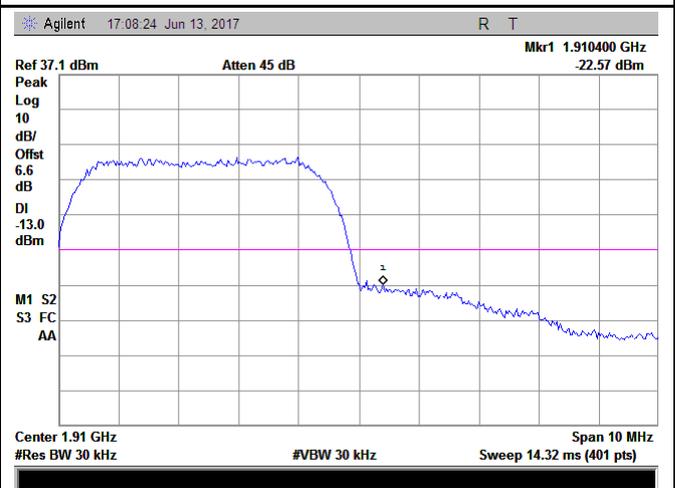
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log
(48.65/30)=4.0+2.1=6.1 dB



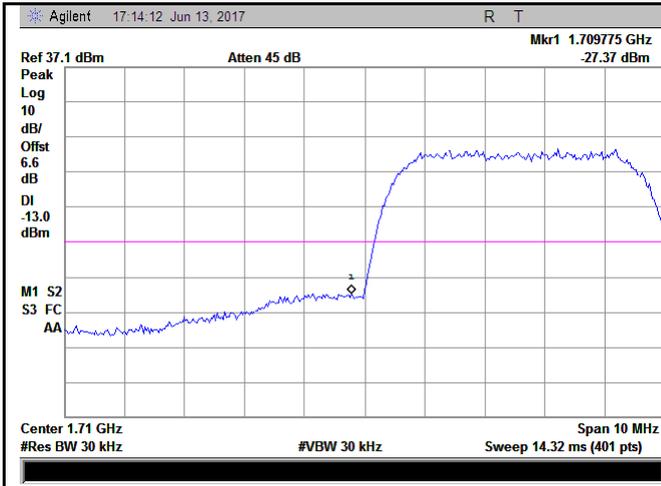
UMTS-FDD Band II - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(48.92/30)=4.5+2.1=6.6 dB



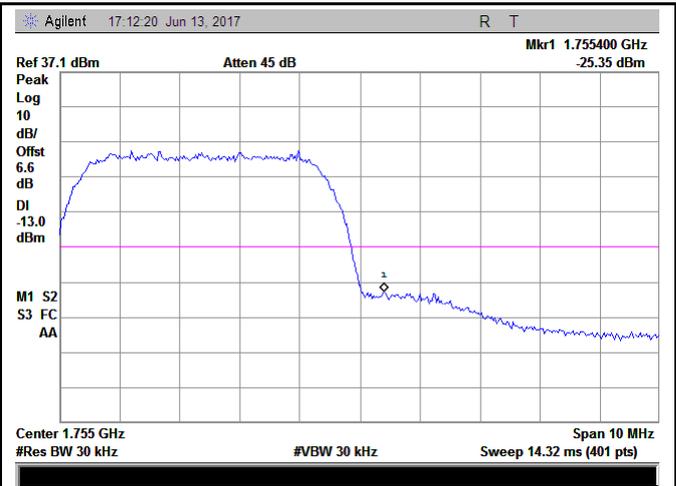
UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log
(48.81/30)=4.5+2.1=6.6 dB



UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(48.95/30)=4.5+2.1=6.6 dB



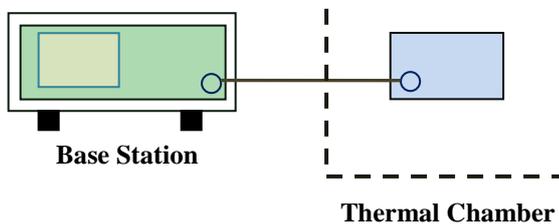
UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.5) + 10log
(48.93/30)=4.5+2.1=6.6 dB

6.8 Frequency Stability

Temperature	22 °C
Relative Humidity	51%
Atmospheric Pressure	1009mbar
Test date :	June 09, 2017
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>450 to 512</td> <td>2.5</td> <td>5.0</td> <td>50.0</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 929</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	450 to 512	2.5	5.0	50.0	821 to 896	1.5	2.5	2.5	928 to 929	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																													
		450 to 512		2.5	5.0	50.0																													
		821 to 896		1.5	2.5	2.5																													
		928 to 929		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 style="text-align: center;"> Base Station Thermal Chamber </p>																																			

Test Report	17070341-FCC-R1-V1
Page	83 of 106

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	3.8	19	0.0227	2.5
0		14	0.0167	2.5
10		15	0.0179	2.5
20		16	0.0191	2.5
30		14	0.0167	2.5
40		16	0.0191	2.5
50		21	0.0251	2.5
55		20	0.0239	2.5
25	3.5	19	0.0227	2.5
	4.3	17	0.0203	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	3.8	15	0.0080	2.5
0		14	0.0074	2.5
10		12	0.0064	2.5
20		16	0.0085	2.5
30		16	0.0085	2.5
40		17	0.0090	2.5
50		16	0.0085	2.5
55		15	0.0080	2.5
25	3.5	18	0.0096	2.5
	4.3	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	3.8	14	0.0168	2.5
0		15	0.0180	2.5
10		15	0.0180	2.5
20		17	0.0204	2.5
30		14	0.0168	2.5
40		11	0.0132	2.5
50		20	0.0240	2.5
55		15	0.0180	2.5
25	3.5	15	0.0180	2.5
	4.3	13	0.0156	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	3.8	16	0.0085	2.5
0		14	0.0074	2.5
10		15	0.0080	2.5
20		11	0.0059	2.5
30		10	0.0053	2.5
40		15	0.0080	2.5
50		9	0.0048	2.5
55		11	0.0059	2.5
25	3.5	14	0.0074	2.5
	4.3	12	0.0064	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	3.8	14	0.0168	2.5
0		15	0.0180	2.5
10		16	0.0192	2.5
20		16	0.0192	2.5
30		15	0.0180	2.5
40		12	0.0144	2.5
50		13	0.0156	2.5
55		14	0.0168	2.5
25		3.5	12	0.0144
	4.3	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	03/23/2017	03/22/2018	<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	03/08/2017	03/07/2018	<input checked="" type="checkbox"/>
Power Amplifier	S41-25D	R1553-0314	05/26/2017	05/24/2018	<input checked="" type="checkbox"/>
Tunable Notch Filter	3NF-800/1000-S	AA4	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>



Test Report	17070341-FCC-R1-V1
Page	88 of 106

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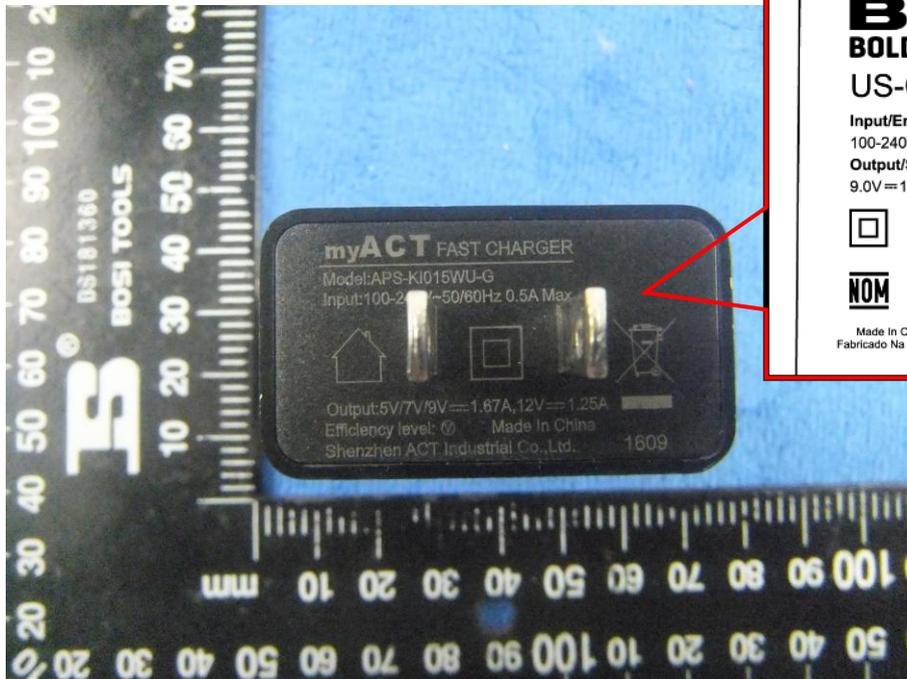
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Front View



myACT FAST CHARGER
Model: APS-KI015WU-G
Input: 100-240V ~ 50/60Hz 0.5A Max

Output: 5V/7V/9V = 1.67A, 12V = 1.25A
Efficiency level: Made In China
Shenzhen ACT Industrial Co., Ltd. 1609

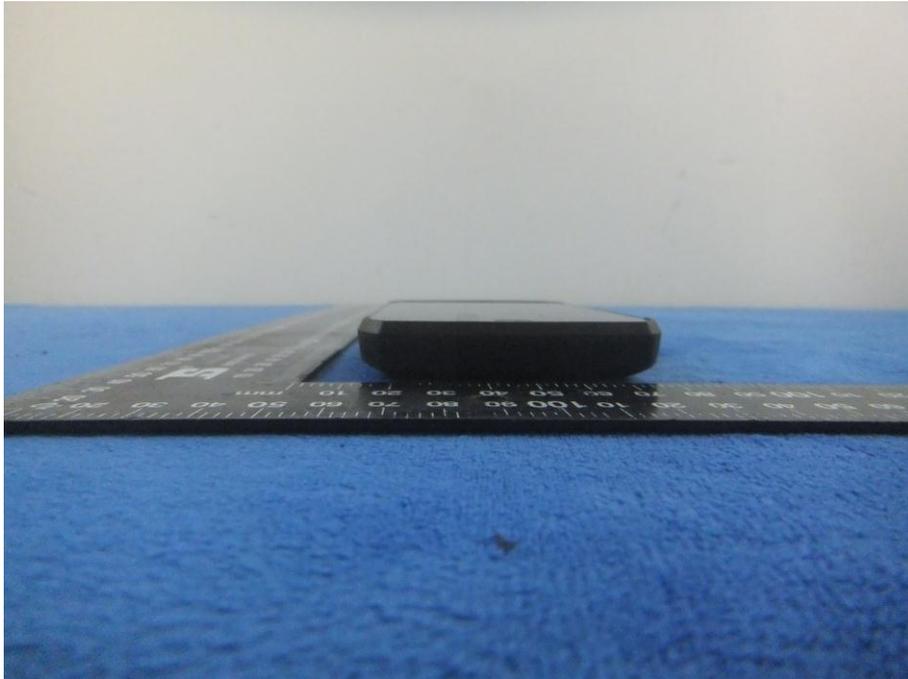
EUT - Front View



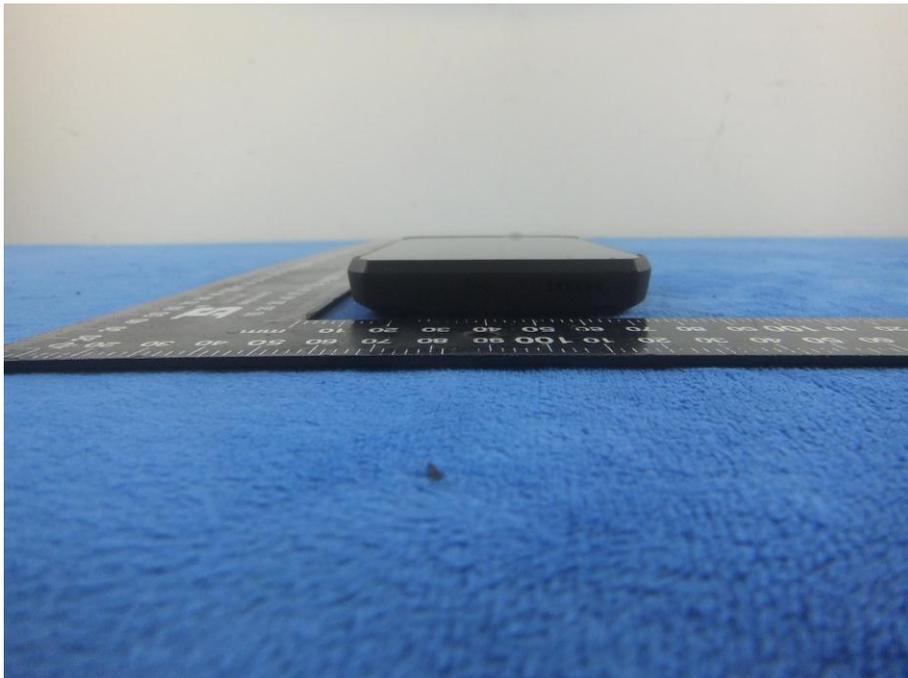
EUT - Rear View



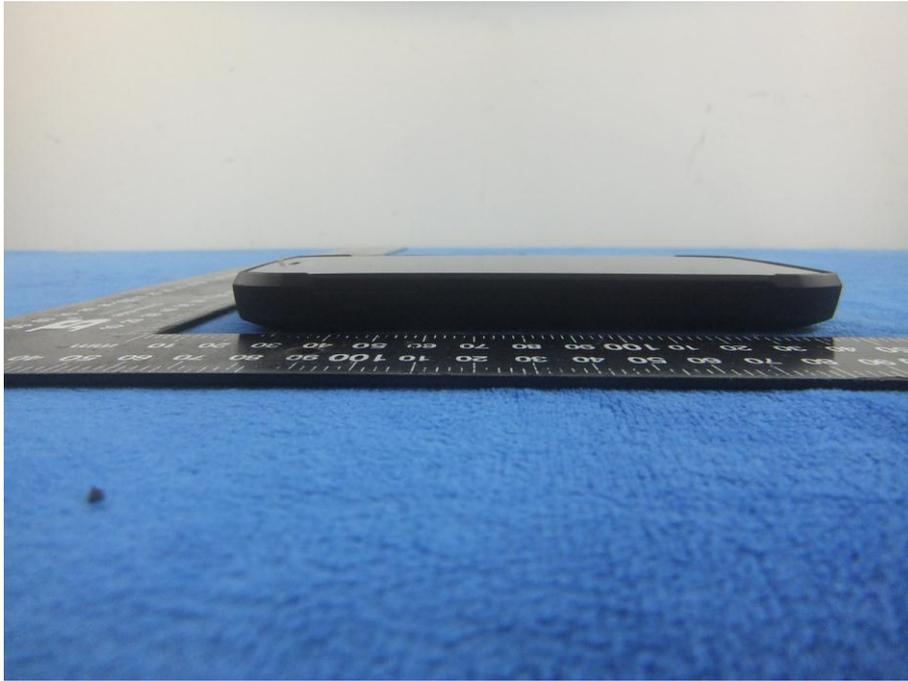
EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View



Annex B.ii. Photograph: EUT Internal Photo

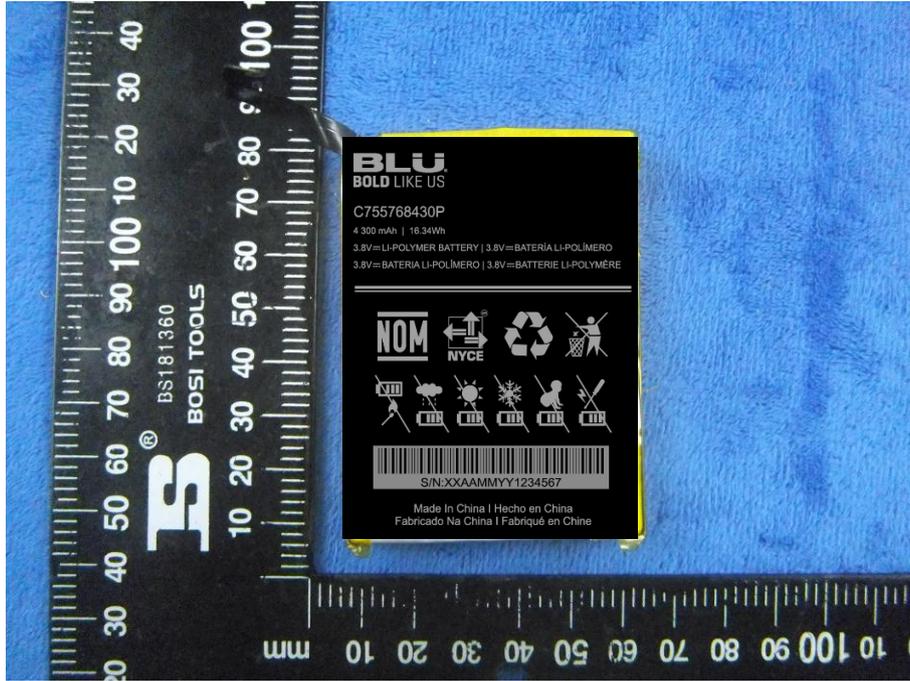
Cover Off - Top View 1



Cover Off - Top View 2



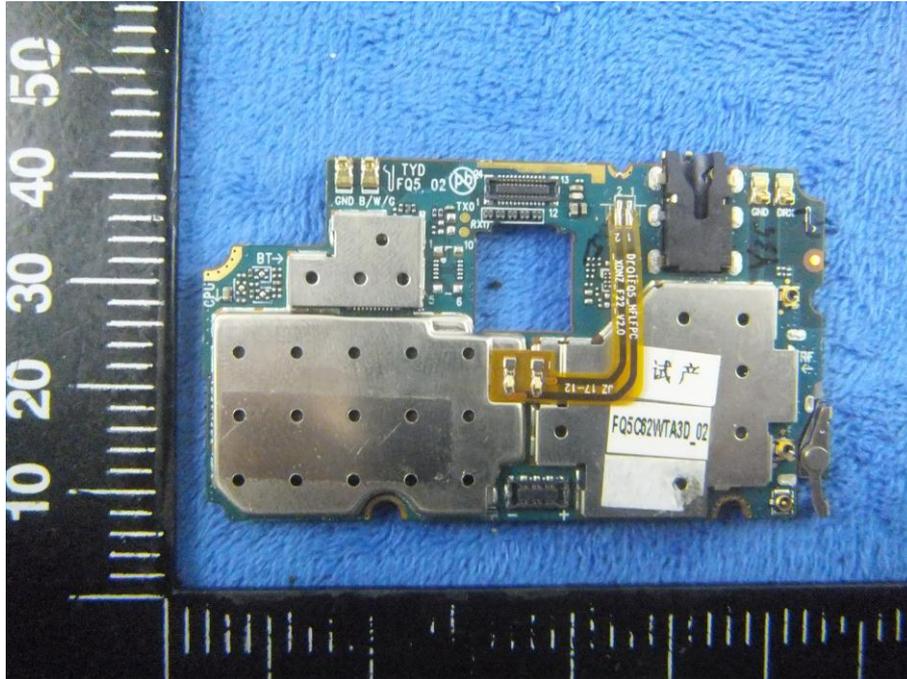
Battery - Front View



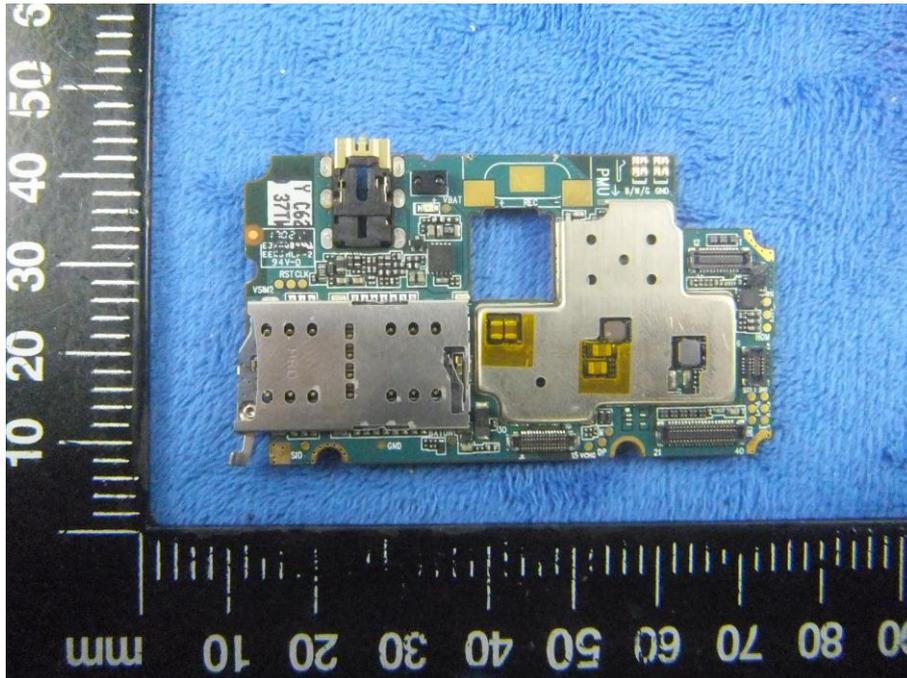
Battery - Rear View



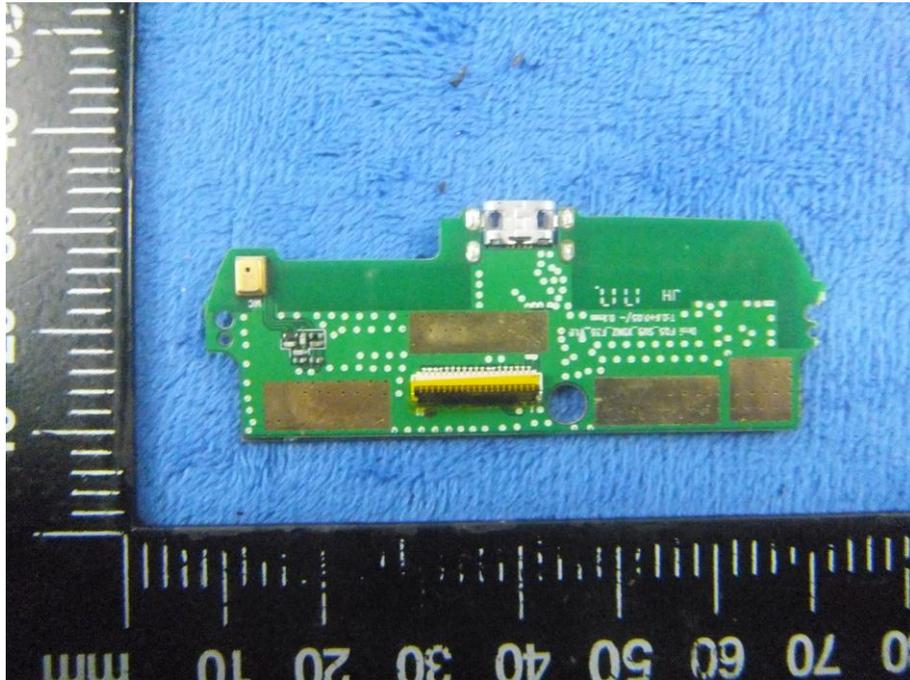
Mainboard with Shielding - Front View



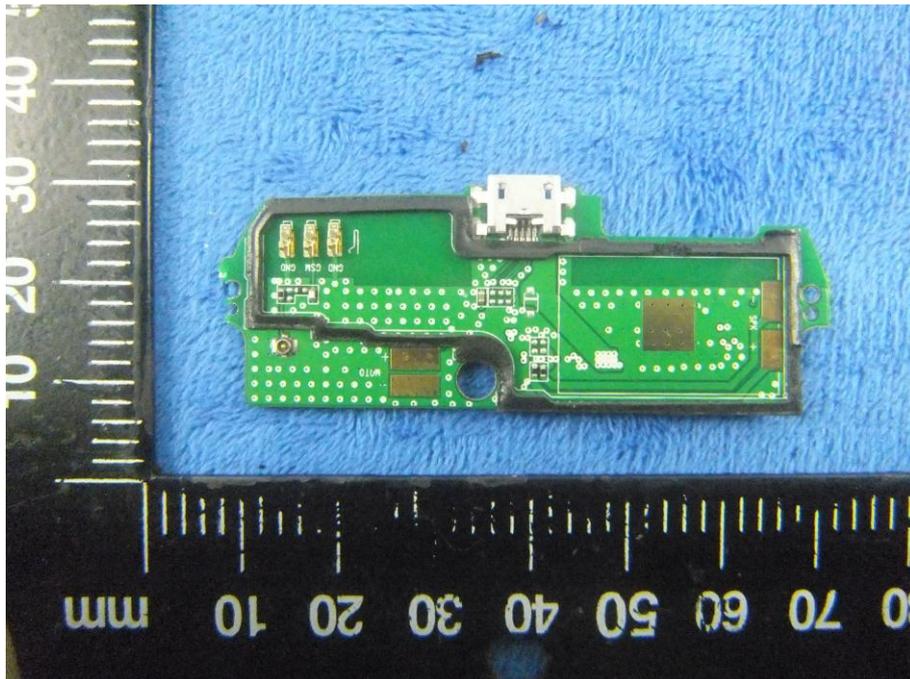
Mainboard without Shielding - Rear View



Small Mainboard - Front View



Small Mainboard - Rear View



LCD – Front View



LCD – Rear View



GSM/PCS/UMTS - Antenna View



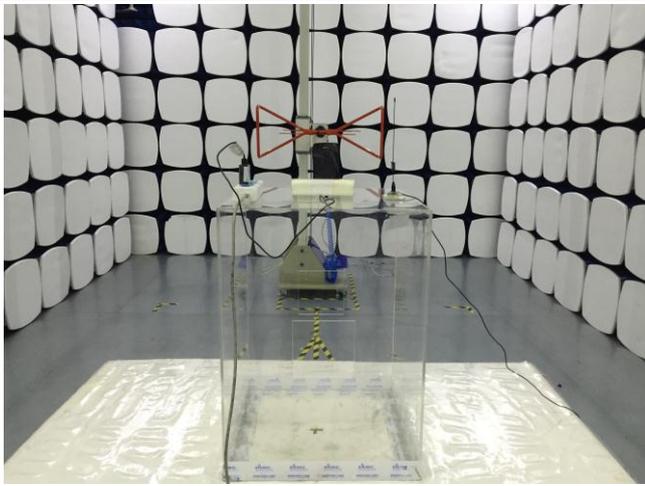
BT/WIFI - Antenna View



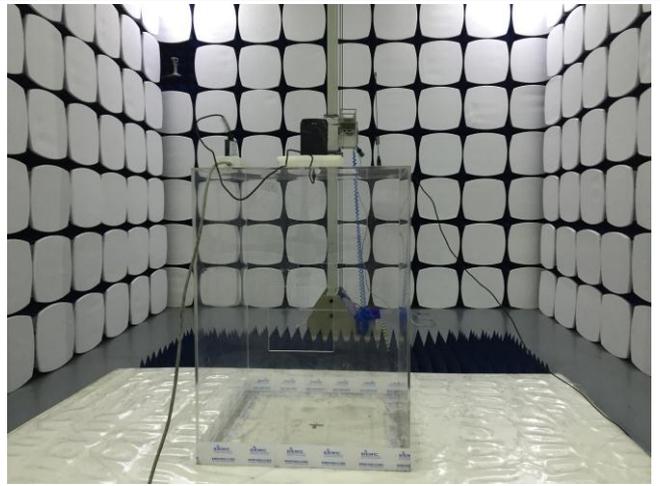
LTE - Antenna View



Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz

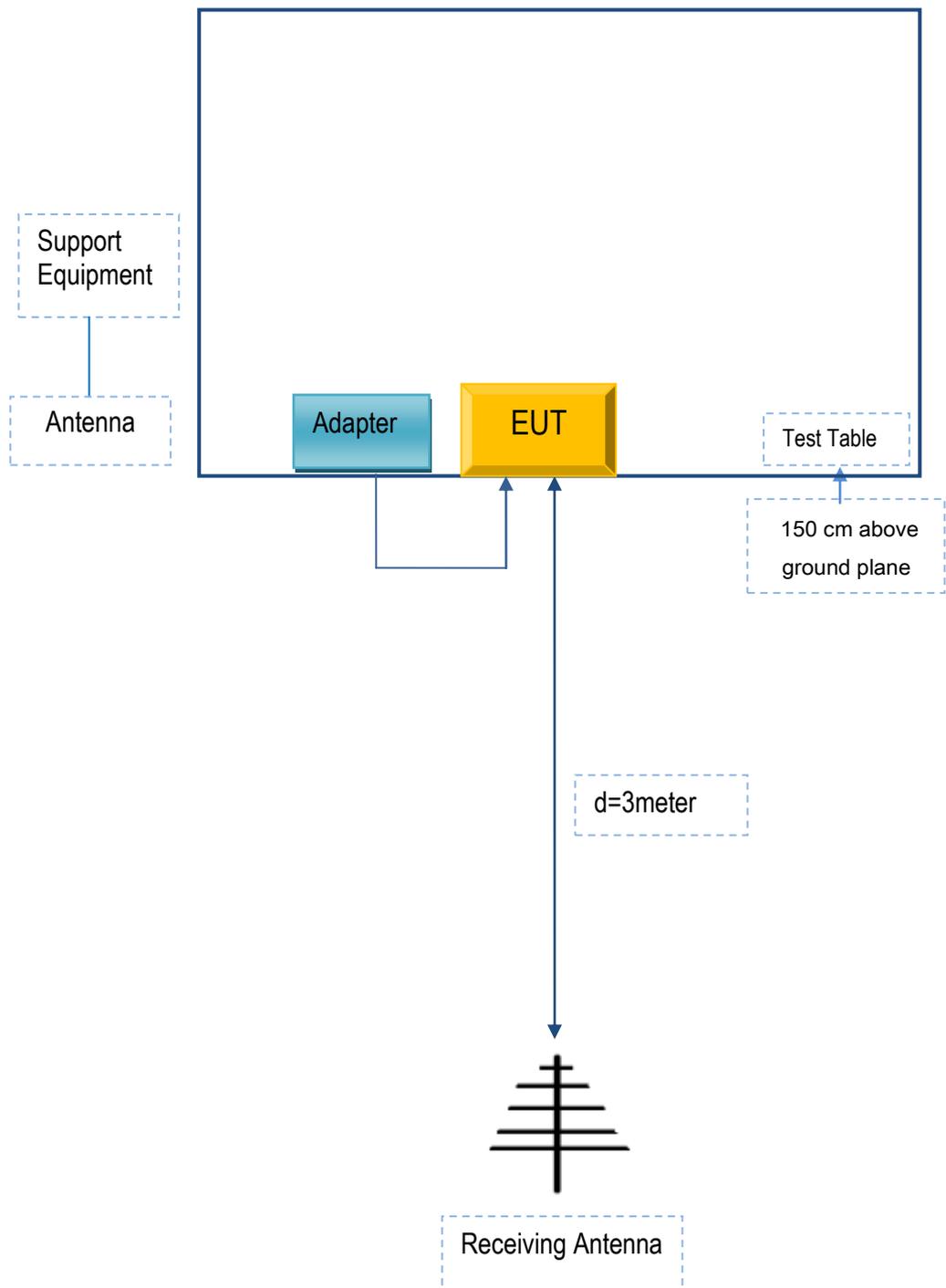


Radiated Spurious Emissions Test Setup Above
1GHz

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	US-CB-1670	SO542

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	SO542

Annex C.ii. EUT OPERATING CONKITIONS

N/A

Test Report	17070341-FCC-R1-V1
Page	105 of 106

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

Please see the attachment

Test Report	17070341-FCC-R1-V1
Page	106 of 106

Annex E. DECLARATION OF SIMILARITY

N/A