
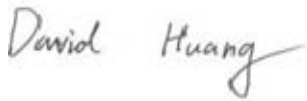



RF TEST REPORT



Report No.: 17070197-FCC-R1

Supersede Report No.: N/A

Applicant	MOVILTELCO TRADE, S.L.	
Product Name	Mobile phone	
Model No.	L509	
Serial No.	L591、 L592、 L593	
Test Standard	FCC Part 22(H):2016 ;FCC Part 24(E):2016; ANSI/TIA-603-D: 2010	
Test Date	March 18 to March 27, 2017	
Issue Date	March 28, 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	
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
17070197-FCC-R1	NONE	Original	March 28, 2017

2. Customer information

Applicant Name	MOVILTELCO TRADE, S.L.
Applicant Add	Street:ABTAO,25-1Floor A-office MADRID-SPAIN
Manufacturer	MOVILTELCO TRADE, S.L.
Manufacturer Add	Street:ABTAO,25-1Floor A-office MADRID-SPAIN

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(ICP-03A1)

4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Main Model:	L509
Serial Model:	L591、 L592、 L593
Date EUT received:	March 17, 2017
Test Date(s):	March 18 to March 27, 2017
Equipment Category :	PCE
Antenna Gain:	GSM850: -5.28dBi PCS1900:-3.32dBi UMTS-FDD Band V: -5.28dBi WIFI: -3.45dBi Bluetooth/BLE: -3.45dBi GPS: -3.26dBi
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
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz GPS: 1575.42 MHz

	GSM Voice:GSM850: 32.97 dBm
	PCS1900: 30.51 dBm
	GPRS:GSM850: 32.95 dBm
	PCS1900: 30.45 dBm
Maximum Conducted AV Power to Antenna:	EGPRS(MCS5):GSM850: 32.93 dBm
	PCS1900: 30.38 dBm
	RMC:UMTS-FDD Band 5: 24.50 dBm
	HSUPA:UMTS-FDD Band 5: 23.60 dBm
	HSDPA:UMTS-FDD Band 5: 23.59 dBm
	GSM Voice:GSM850: 25.54 dBm / ERP
	PCS1900: 27.19 dBm / EIRP
	GPRS:GSM850: 25.52 dBm / ERP
	PCS1900: 27.13 dBm / EIRP
ERP/EIRP:	EGPRS(MCS5):GSM850: 19.57 dBm / ERP
	PCS1900: 24.22 dBm / EIRP
	RMC:UMTS-FDD Band 5: 16.82 dBm / ERP
	HSDPA:UMTS-FDD Band 5: 16.16 dBm / ERP
	HSUPA:UMTS-FDD Band 5: 16.17 dBm / ERP
	GSM 850: 124CH
	PCS1900: 299CH
	UMTS-FDD Band V: 102CH
Number of Channels:	WIFI :802.11b/g/n(20M): 11CH
	WIFI :802.11n(40M): 7CH
	Bluetooth: 79CH
	BLE: 40CH
	GPS:1CH
Port:	USB Port, Earphone Port
	Adapter:
	Model: L509
	Input: AC100-240V~50/60Hz,0.20A
Input Power:	Output: DC 5.0V,1000mA
	Battery:
	Model: L509
	Spec : 3.8V,2300mAh,8.74Wh

Trade Name : Mtt/movistar

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

FCC ID: 2ACQKTELCO011

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) ;	RF Output Power	Compliance
§ 24.232 (d) ;	Peak-Average Ratio	Compliance
§ 2.1049; § 22.905; § 22.917; § 24.238;	99% & -26 dB Occupied Bandwidth	Compliance
§ 2.1051; § 22.917(a); § 24.238(a);	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917(a); § 24.238(a);	Field Strength of Spurious Radiation	Compliance
§ 22.917(a); § 24.238(a);	Out of band emission, Band Edge	Compliance
§ 2.1055; § 22.355; § 24.235;	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

Parameter	Uncertainty
AC Power Line Conducted Emissions (150kHz~30MHz)	$\pm 3.71\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.12\text{dB}$
Radiated Emission(1GHz~6GHz)	$\pm 5.34\text{dB}$

6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 RF Exposure (SAR)

Test Result: Pass

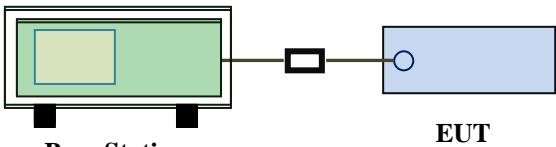
The EUT is a portable device, thus requires SAR evaluation;
Please refer to RF Exposure Evaluation Report: 17070197-FCC-H.

6.2 RF Output Power

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	March 20, 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"/>

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 frequency was investigated.
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	<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	32.97	32.96	32.90	33±1	30.51	30.45	30.24	30.5±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.95	32.93	32.88	33±1	30.45	30.42	30.21	30.5±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	32.19	32.17	32.14	32±1	29.98	29.95	29.76	29.5±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	29.26	29.25	29.22	29+1	27.33	27.27	27.02	27±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	32.93	32.91	32.85	33±1	30.38	30.35	30.19	30.5±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	32.17	32.15	32.12	32±1	29.97	29.95	29.75	29.5±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	29.2	29.21	29.18	29+1	27.29	27.21	27.01	27±1
EGPRS Multi-Slot Class 8 (1 uplink) 8PSK MCS5	27	26.95	26.82	27±1	27.38	27.54	27.01	27±1
EGPRS Multi-Slot Class 10 (2 uplink) 8PSK MCS5	25.78	25.72	25.63	25.5±1	26.42	26.45	26.05	26±1
EGPRS Multi-Slot Class 12 (4 uplink) 8PSK MCS5	22.32	22.21	22.19	22±1	23.65	23.71	23.01	23.5±1

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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	24.25	24±1
	4175	835	24.06	24±1
	4233	846.6	24.25	24±1
HSDPA Subtest1	4132	826.4	23.59	23.5±1
	4175	835	23.51	23.5±1
	4233	846.6	23.53	23.5±1
HSDPA Subtest2	4132	826.4	23.47	23.5±1
	4175	835	23.41	23.5±1
	4233	846.6	23.46	23.5±1
HSDPA Subtest3	4132	826.4	23.56	23.5±1
	4175	835	23.58	23.5±1
	4233	846.6	23.55	23.5±1
HSDPA Subtest4	4132	826.4	23.44	23.5±1
	4175	835	23.46	23.5±1
	4233	846.6	23.47	23.5±1
HSUPA Subtest1	4132	826.4	23.53	23.5±1
	4175	835	23.53	23.5±1
	4233	846.6	23.55	23.5±1
HSUPA Subtest2	4132	826.4	23.51	23.5±1
	4175	835	23.60	23.5±1
	4233	846.6	23.57	23.5±1
HSUPA Subtest3	4132	826.4	23.53	23.5±1
	4175	835	23.44	23.5±1
	4233	846.6	23.48	23.5±1
HSUPA Subtest4	4132	826.4	23.52	23.5±1
	4175	835	23.50	23.5±1
	4233	846.6	23.44	23.5±1
HSUPA Subtest5	4132	826.4	23.47	23.5±1
	4175	835	23.48	23.5±1
	4233	846.6	23.41	23.5±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	19.27	V	6.8	0.53	25.54	38.45
824.2	18.06	H	6.8	0.53	24.33	38.45
836.6	19.26	V	6.8	0.53	25.53	38.45
836.6	18.14	H	6.8	0.53	24.41	38.45
848.8	19.1	V	6.9	0.53	25.47	38.45
848.8	18.01	H	6.9	0.53	24.38	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	20.16	V	7.88	0.85	27.19	33
1850.2	19.01	H	7.88	0.85	26.04	33
1880	20.1	V	7.88	0.85	27.13	33
1880	19.08	H	7.88	0.85	26.11	33
1909.8	19.91	V	7.86	0.85	26.92	33
1909.8	18.86	H	7.86	0.85	25.87	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	19.25	V	6.8	0.53	25.52	38.45
824.2	18.22	H	6.8	0.53	24.49	38.45
836.6	19.23	V	6.8	0.53	25.5	38.45
836.6	18.19	H	6.8	0.53	24.46	38.45
848.8	19.08	V	6.9	0.53	25.45	38.45
848.8	18	H	6.9	0.53	24.37	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	20.1	V	7.88	0.85	27.13	33
1850.2	19.02	H	7.88	0.85	26.05	33
1880	20.07	V	7.88	0.85	27.10	33
1880	18.95	H	7.88	0.85	25.98	33
1909.8	19.88	V	7.86	0.85	26.89	33
1909.8	18.74	H	7.86	0.85	25.75	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	13.3	V	6.8	0.53	19.57	38.45
824.2	12.16	H	6.8	0.53	18.43	38.45
836.6	13.25	V	6.8	0.53	19.52	38.45
836.6	12.05	H	6.8	0.53	18.32	38.45
848.8	13.02	V	6.9	0.53	19.39	38.45
848.8	11.89	H	6.9	0.53	18.26	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	17.03	V	7.88	0.85	24.06	33
1850.2	15.91	H	7.88	0.85	22.94	33
1880	17.19	V	7.88	0.85	24.22	33
1880	16.12	H	7.88	0.85	23.15	33
1909.8	16.68	V	7.86	0.85	23.69	33
1909.8	15.57	H	7.86	0.85	22.58	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	10.55	V	6.8	0.53	16.82	38.45
826.4	9.44	H	6.8	0.53	15.71	38.45
835	10.36	V	6.8	0.53	16.63	38.45
835	9.22	H	6.8	0.53	15.49	38.45
846.6	10.45	V	6.9	0.53	16.82	38.45
846.6	9.4	H	6.9	0.53	15.77	38.45

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	9.89	V	6.8	0.53	16.16	38.45
826.4	8.81	H	6.8	0.53	15.08	38.45
835	9.88	V	6.8	0.53	16.15	38.45
835	8.74	H	6.8	0.53	15.01	38.45
846.6	9.75	V	6.9	0.53	16.12	38.45
846.6	8.66	H	6.9	0.53	15.03	38.45

HSUPA

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

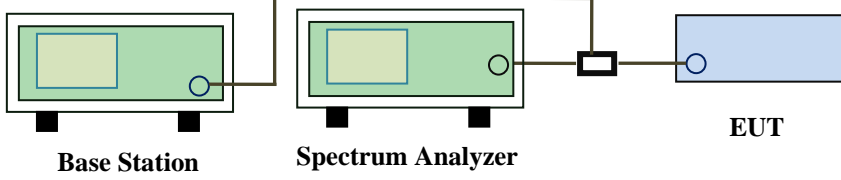
Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	9.83	V	6.8	0.53	16.1	38.45
826.4	8.7	H	6.8	0.53	14.97	38.45
835	9.9	V	6.8	0.53	16.17	38.45
835	8.84	H	6.8	0.53	15.11	38.45
846.6	9.77	V	6.9	0.53	16.14	38.45
846.6	8.72	H	6.9	0.53	15.09	38.45

6.3 Peak-Average Ratio

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	March 20, 2017
Tested By :	Loren Luo

Requirement(s):

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

Test Setup	 <p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>
------------	---

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>
----------------	--

	<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	31.48	30.51	0.97
1880	31.44	30.45	0.99
1909.8	31.46	30.24	1.22

GPRS 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	31.45	30.45	1
1880	31.5	30.42	1.08
1909.8	31.46	30.22	1.24

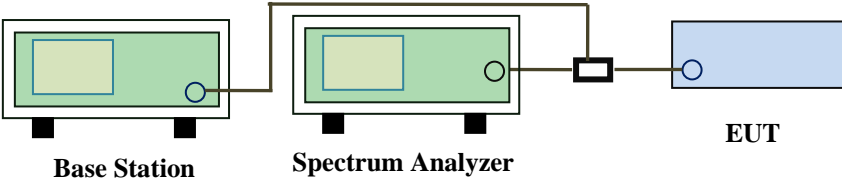
EGPRS (MSC5) 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	28.41	27.38	1.03
1880	28.39	27.54	0.85
1909.8	27.96	27.01	0.95

6.4 Occupied Bandwidth

Temperature	22 °C
Relative Humidity	54%
Atmospheric Pressure	1021mbar
Test date :	March 21, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049, §22.917, §22.905 §24.238	a)	99% Occupied Bandwidth(kHz)	<input checked="" type="checkbox"/>
	b)	26 dB Bandwidth(kHz)	<input checked="" type="checkbox"/>
Test Setup			
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	248.2544	323.895
190	836.6	246.5990	319.132
251	848.8	245.8418	320.256

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	247.2965	322.411
661	1880.0	245.4981	320.370
810	1909.8	243.8921	321.975

GPRS:

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	248.6010	323.654
190	836.6	247.2572	322.649
251	848.8	248.0458	319.528

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	245.3404	319.579
661	1880.0	245.3931	321.815
810	1909.8	244.5784	320.548

EGPRS (MCS 5):

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	247.7967	321.334
190	836.6	246.3159	316.341
251	848.8	242.0648	322.068

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	246.8819	320.137
661	1880.0	248.2416	323.074
810	1909.8	243.7312	321.554

RMC:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1869	4.895
4175	835.0	4.2017	4.870
4233	846.6	4.2084	4.924

HSDPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1968	4.880
4175	835.0	4.2135	4.897
4233	846.6	4.1962	4.915

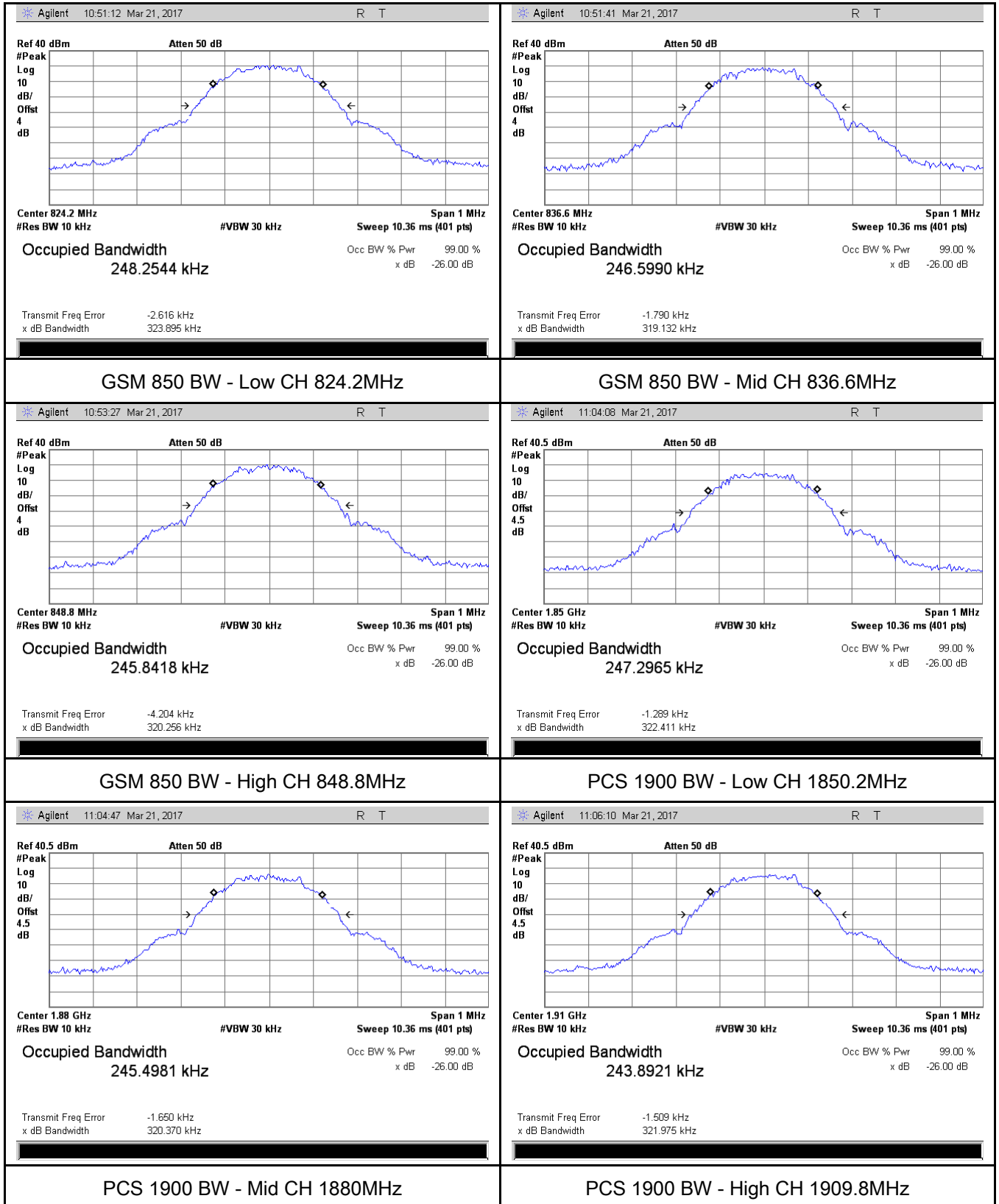
HSUPA:

UMTS-FDD Band V (Part 22H)

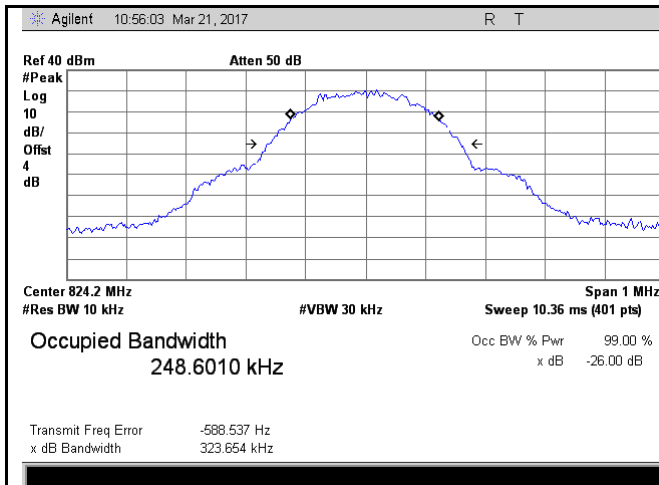
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.2185	4.891
4175	835.0	4.2300	4.902
4233	846.6	4.2068	4.904

Test Plots

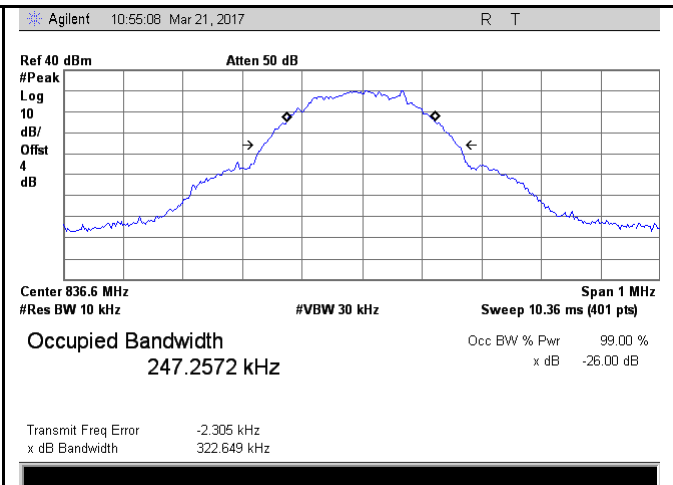
GSM Voice:



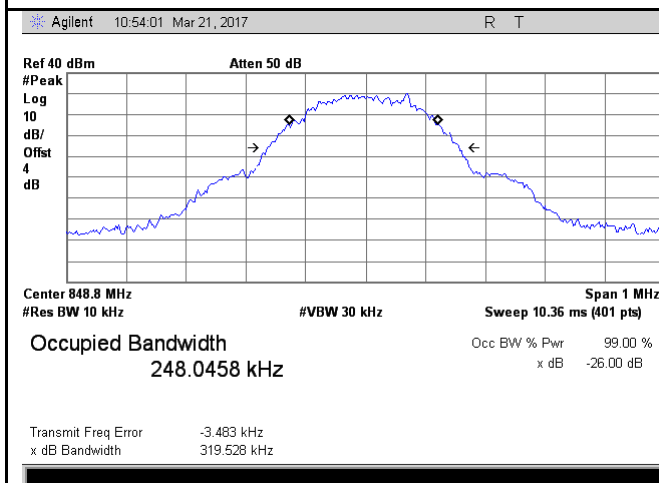
GPRS:



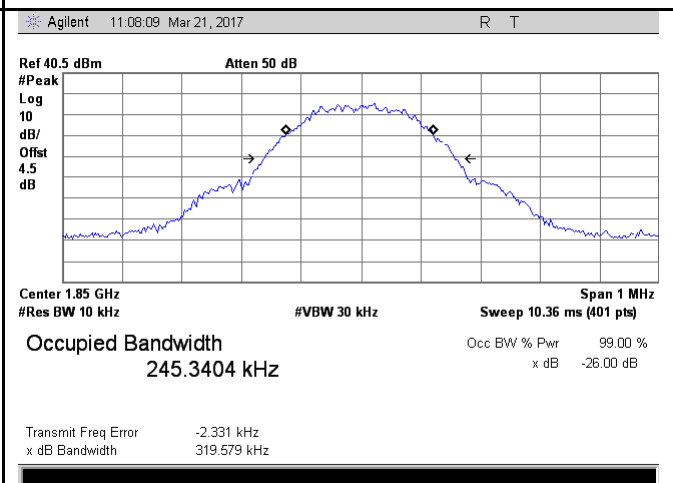
GSM 850 BW - Low CH 824.2MHz



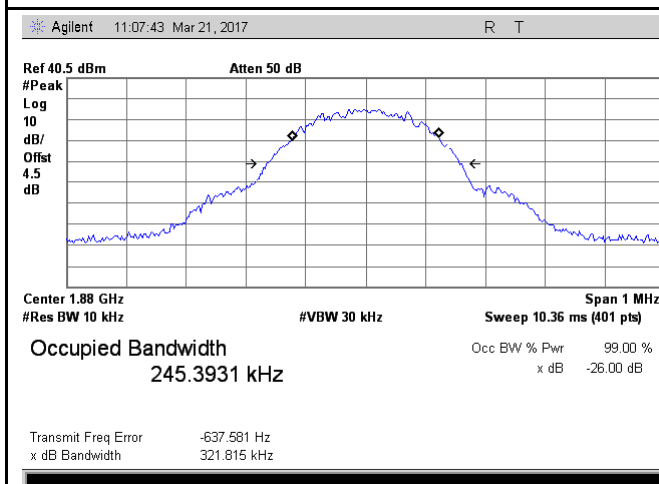
GSM 850 BW - Mid CH 836.6MHz



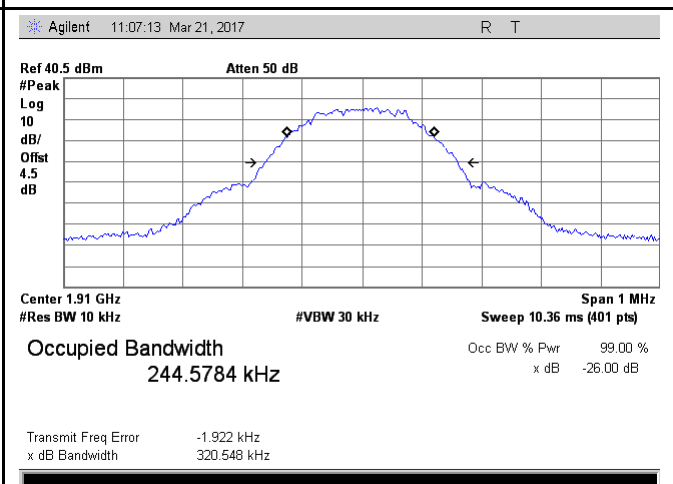
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

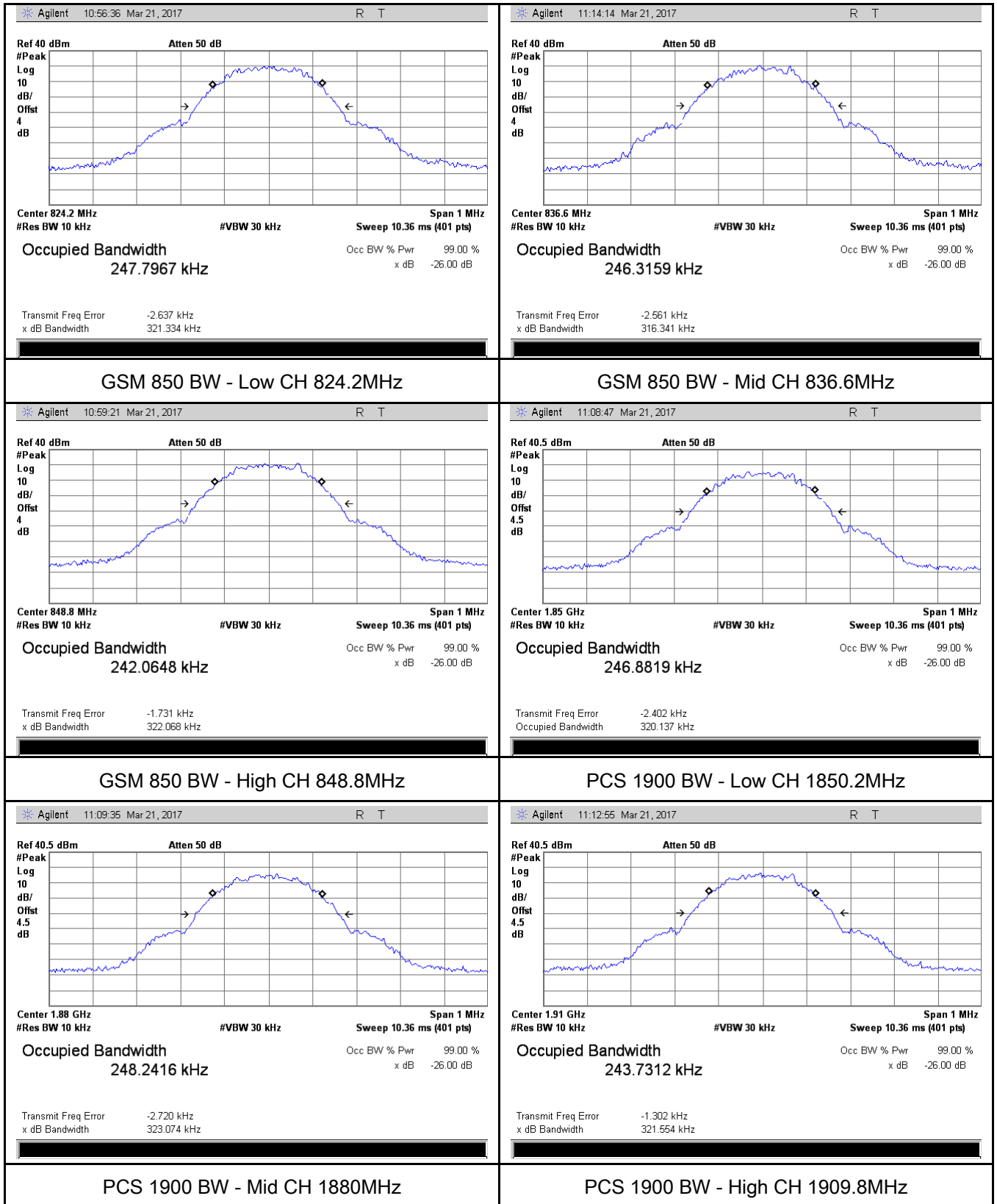


PCS 1900 BW - Mid CH 1880MHz

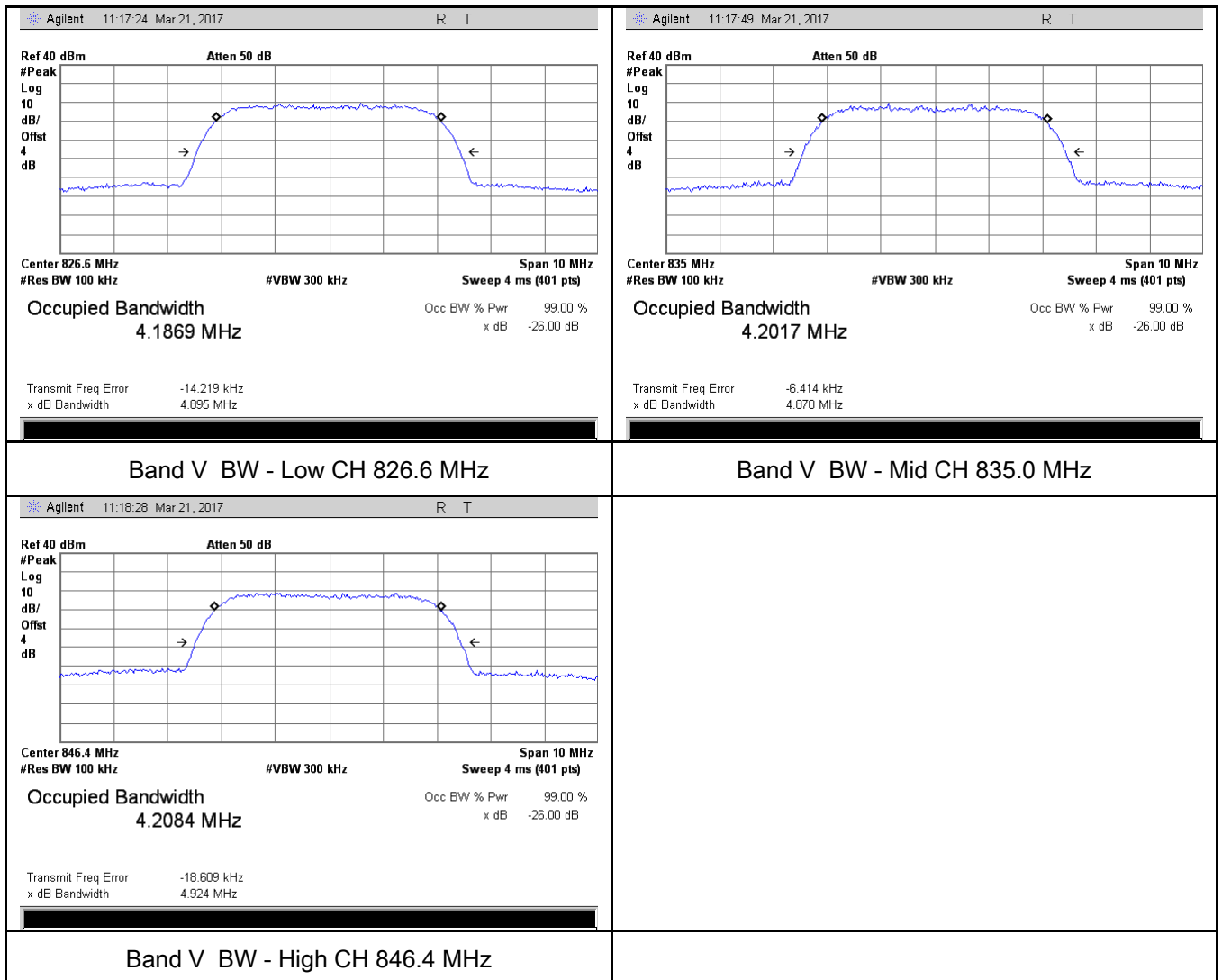


PCS 1900 BW - High CH 1909.8MHz

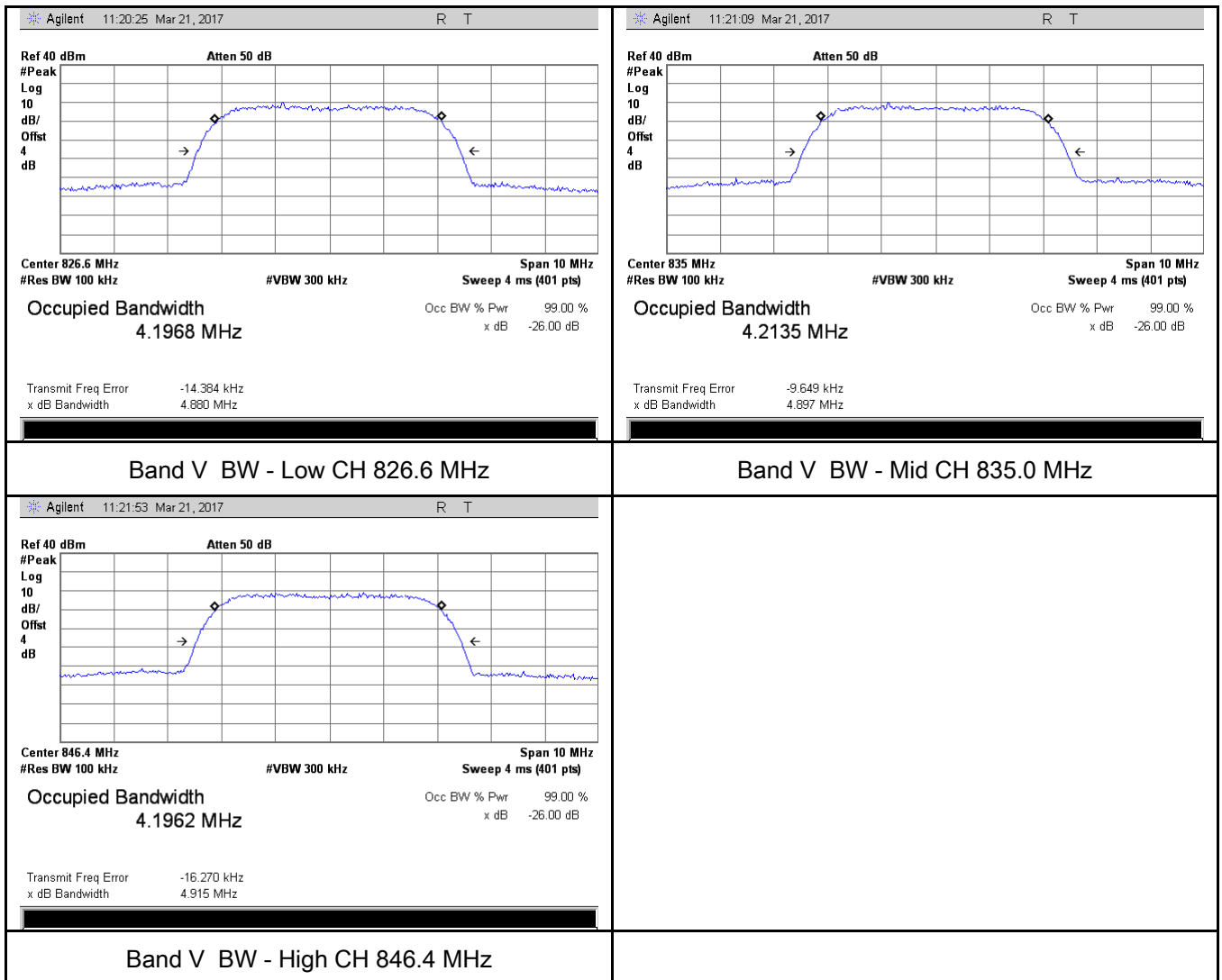
EGPRS (MCS5):



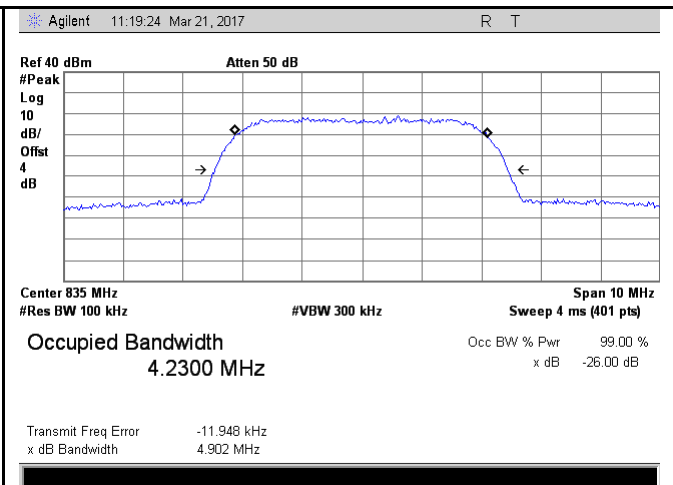
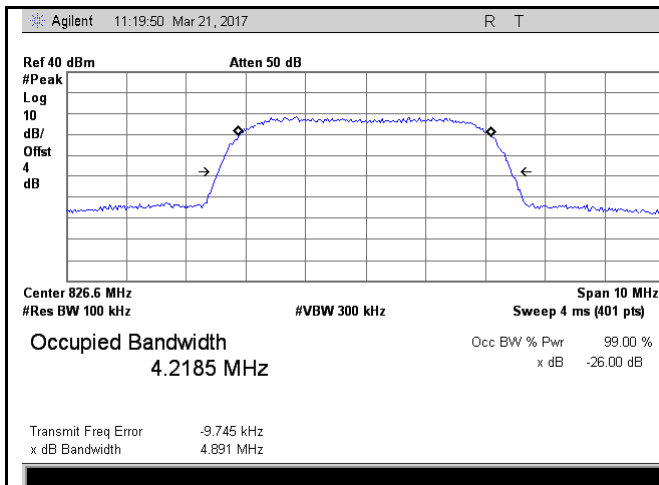
RMC:



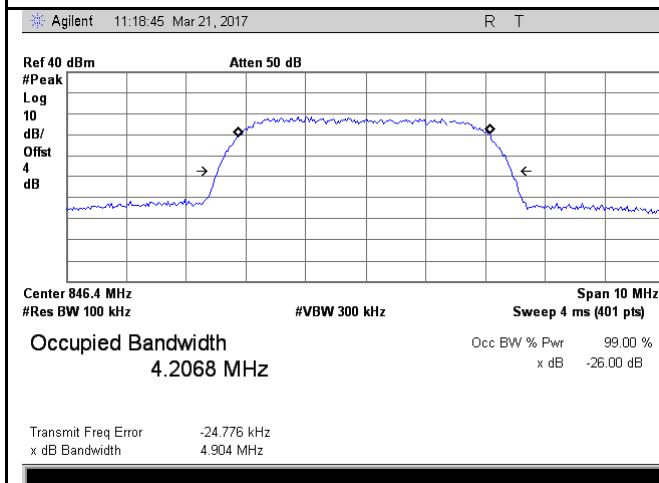
HSDPA:



HSUPA:



Band V BW - Low CH 826.6 MHz



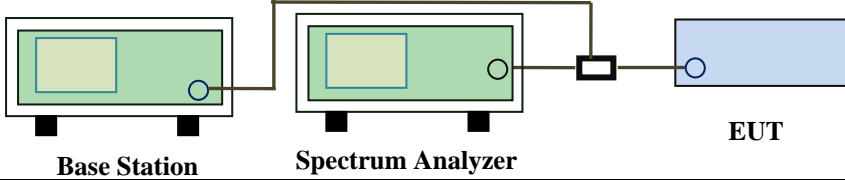
Band V BW - Mid CH 835.0 MHz

Band V BW - High CH 846.4 MHz

6.5 Spurious Emissions at Antenna Terminals

Temperature	22 °C
Relative Humidity	54%
Atmospheric Pressure	1021mbar
Test date :	March 21, 2017
Tested By :	Loren Luo

Requirement(s):

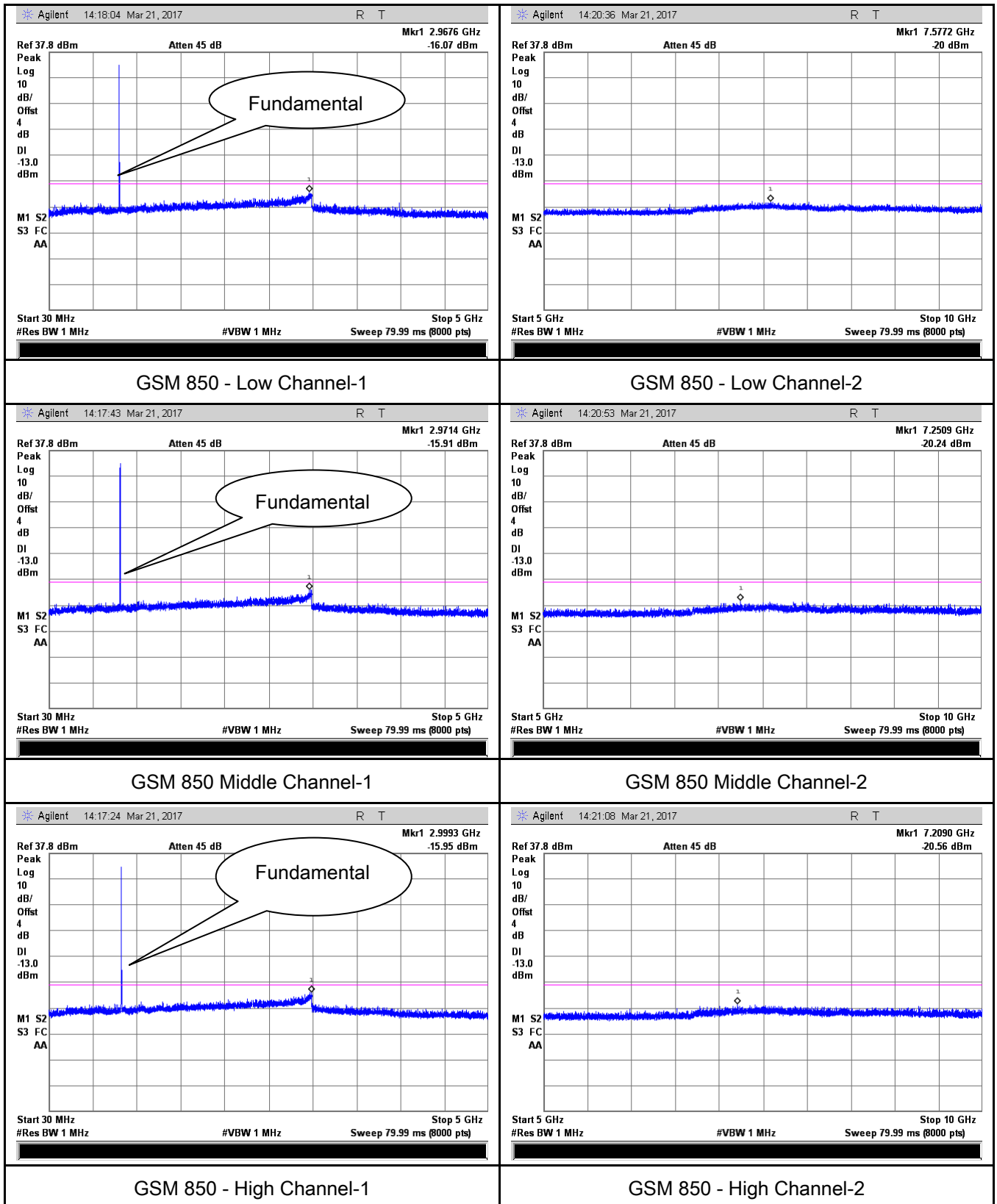
Spec	Item	Requirement	Applicable
§2.1051, §22.917(a)& §24.238(a)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<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

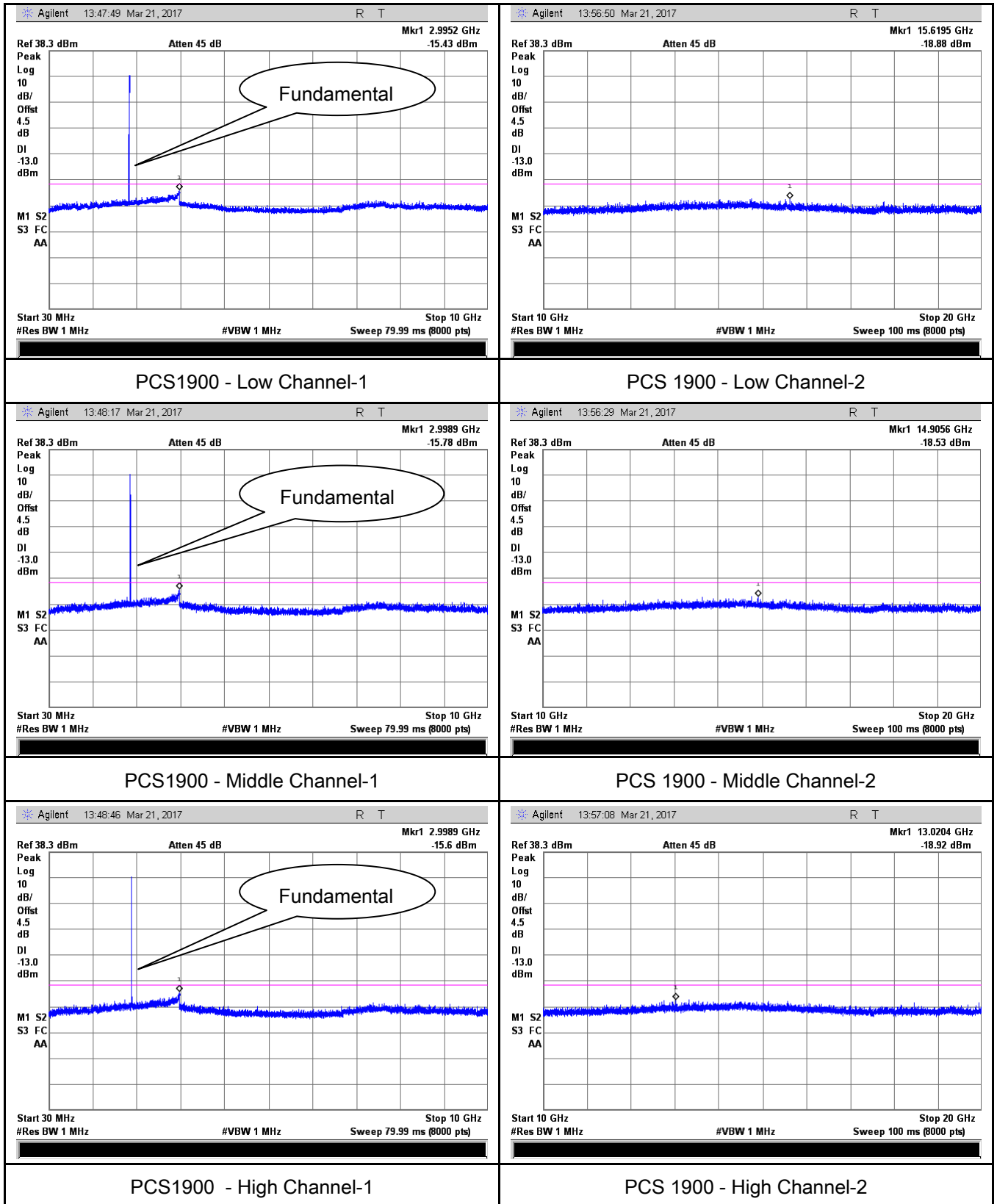
Test Plots

GSM Voice:

Cellular Band (Part 22H) result

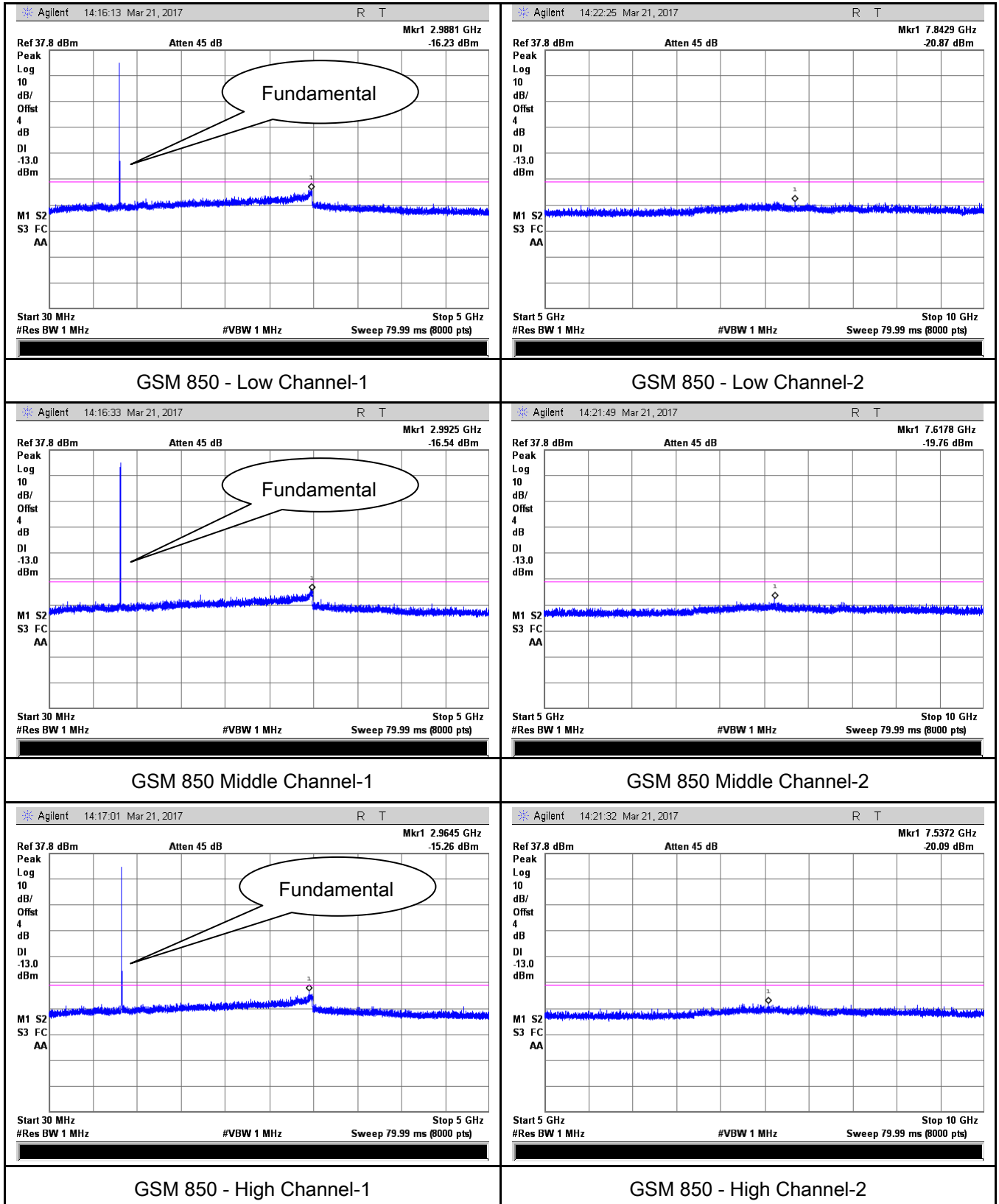


PCS Band (Part24E) result

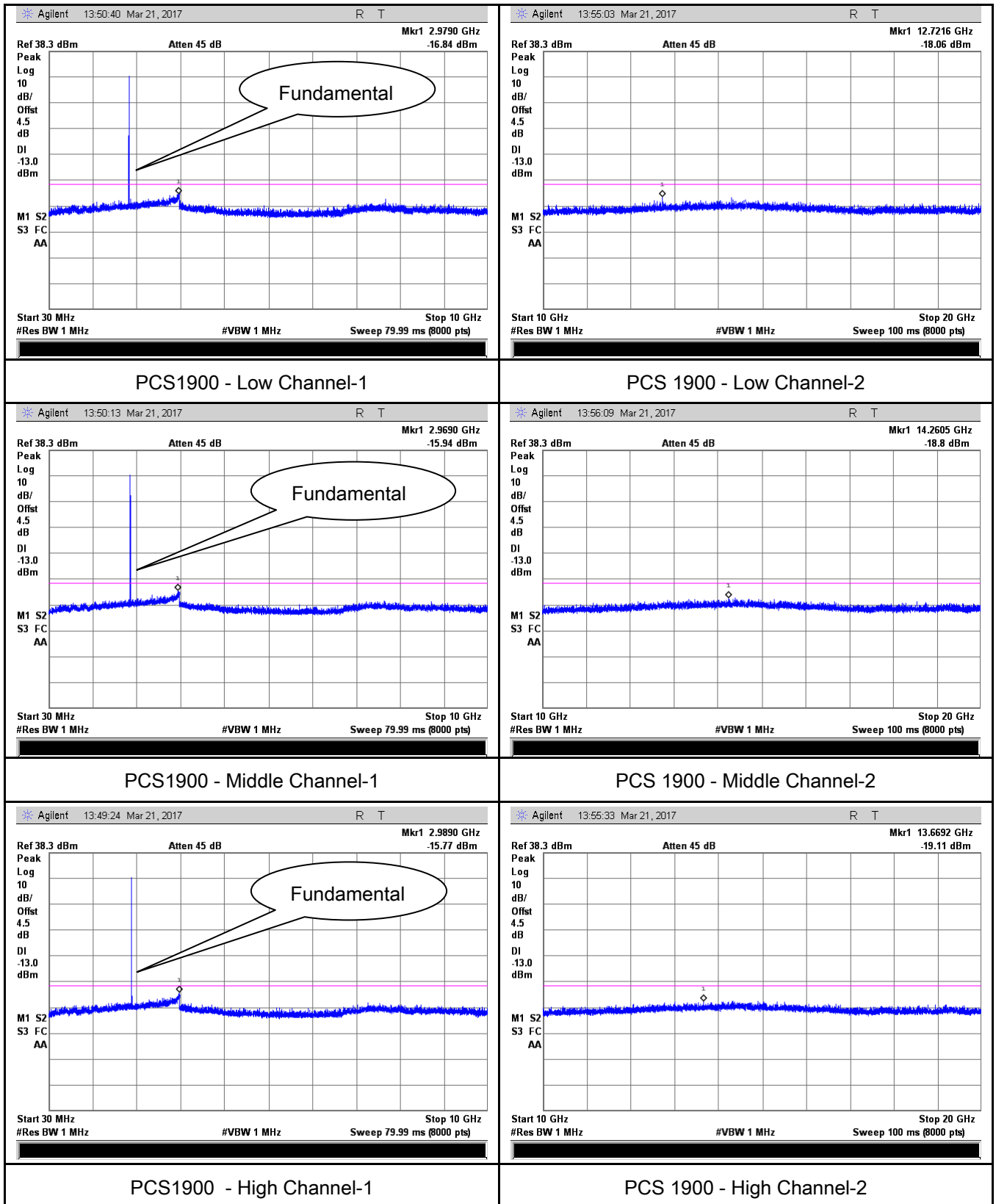


GPRS:

Cellular Band (Part 22H) result

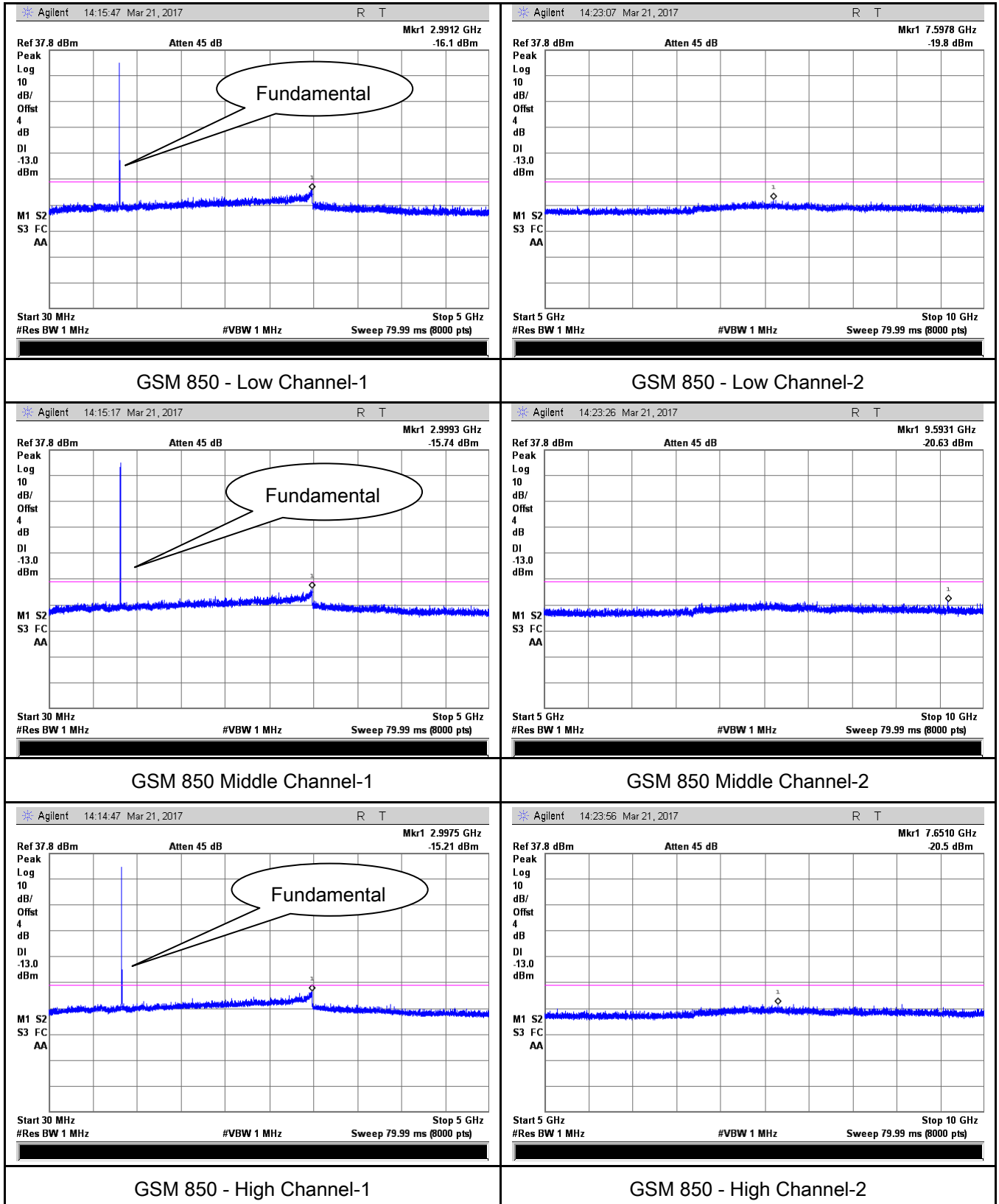


PCS Band (Part24E) result

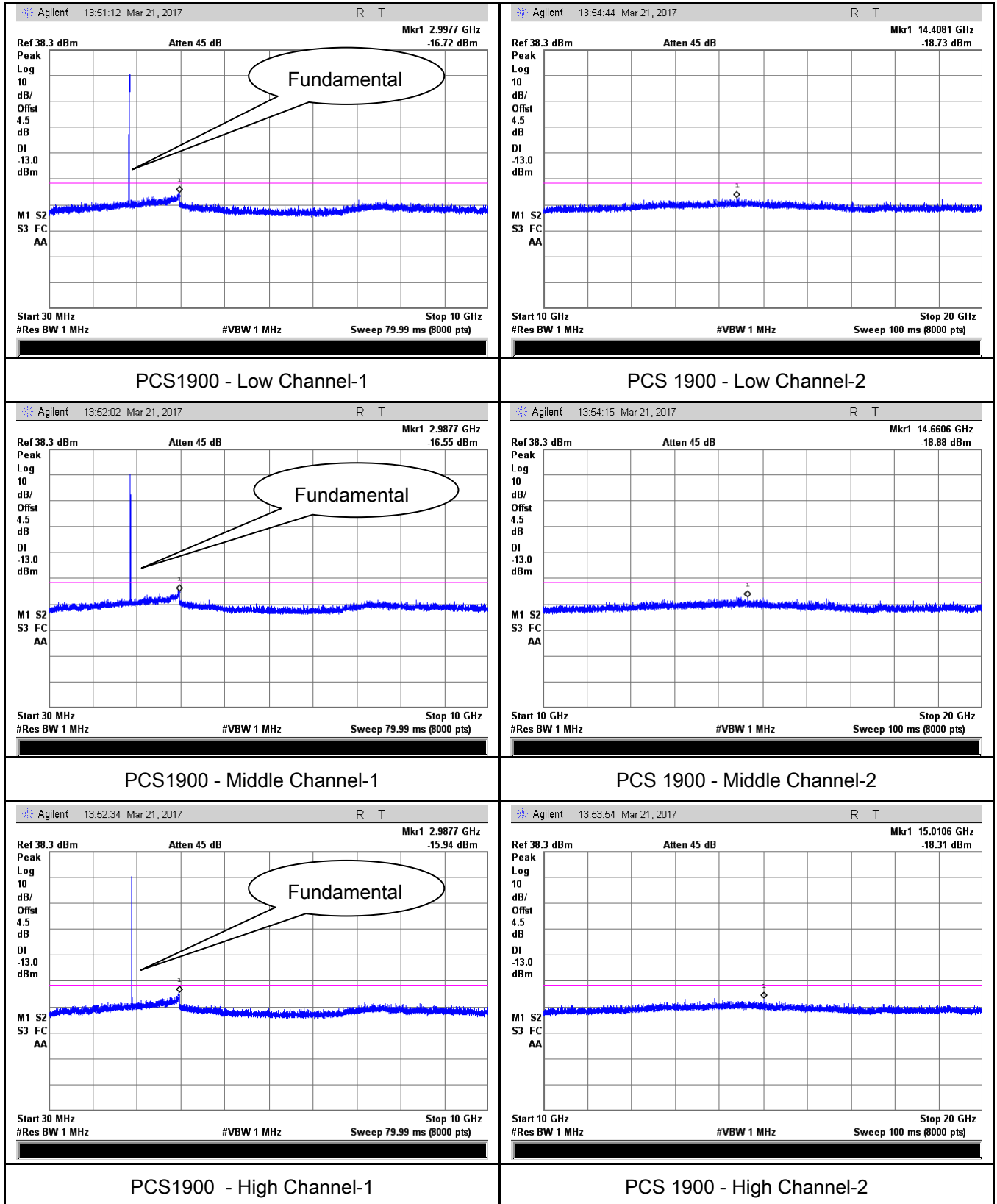


EGPRS (MCS 5):

Cellular Band (Part 22H) result

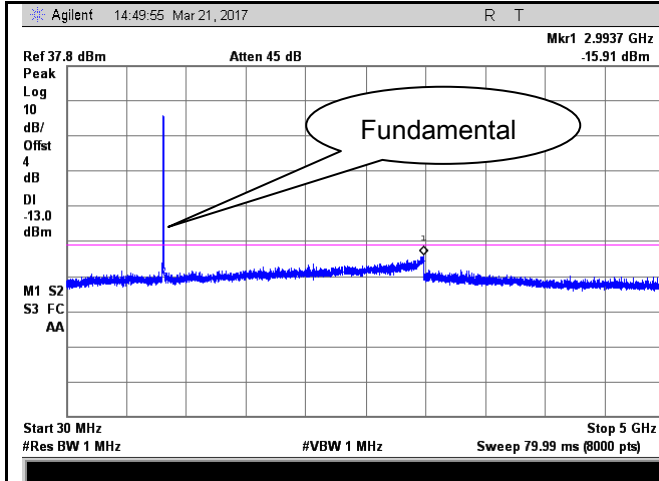


PCS Band (Part24E) result

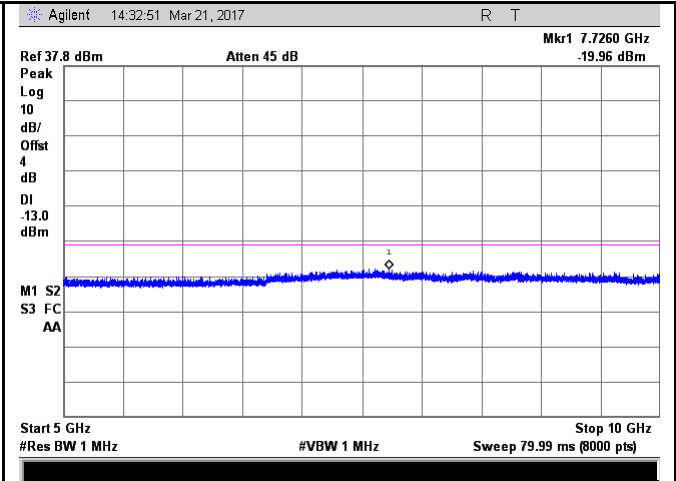


RMC

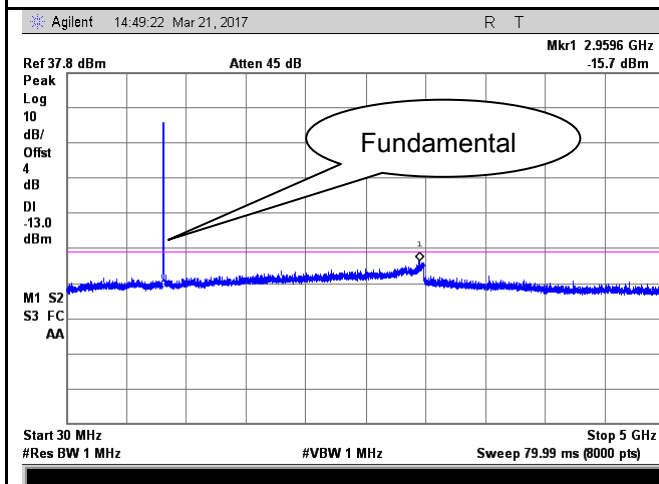
UMTS-FDD Band V (Part 22H)



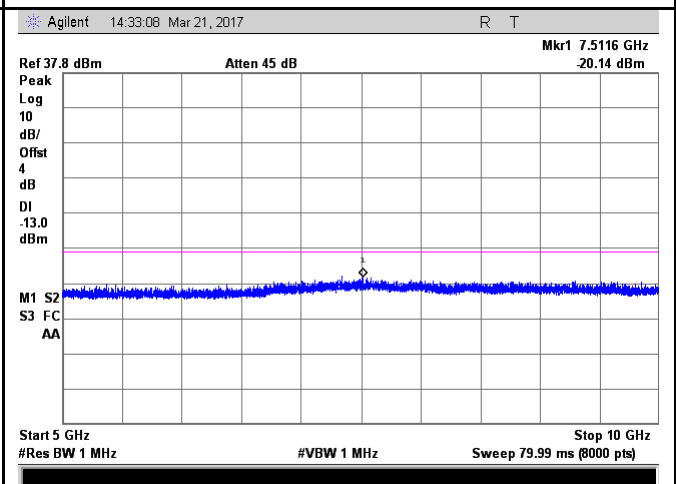
Band V - Low Channel-1



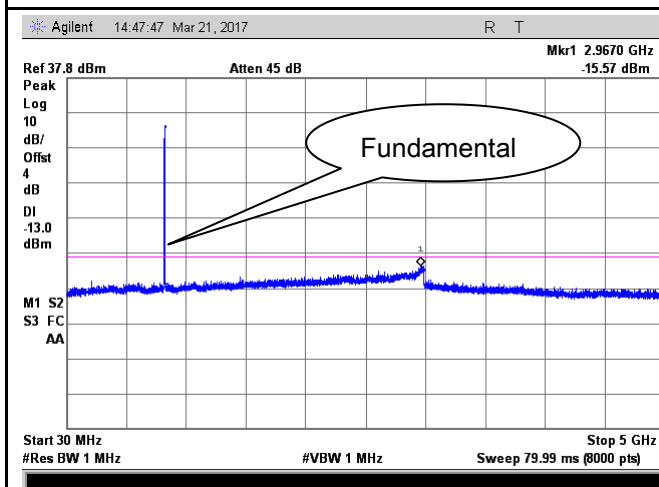
Band V - Low Channel-2



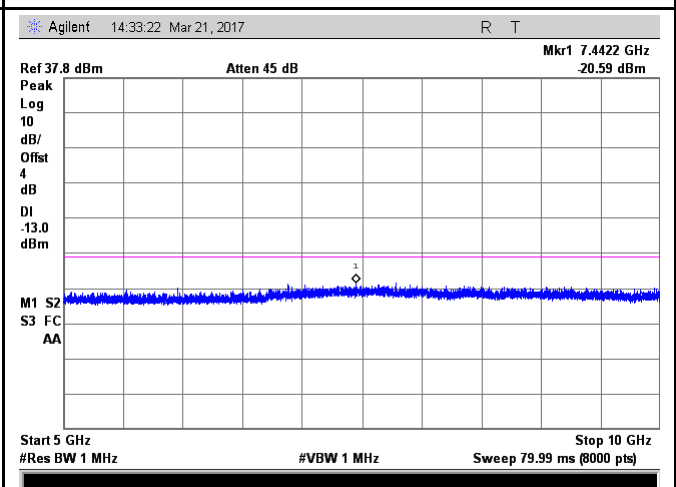
Band V - Middle Channel-1



Band V - Middle Channel-2



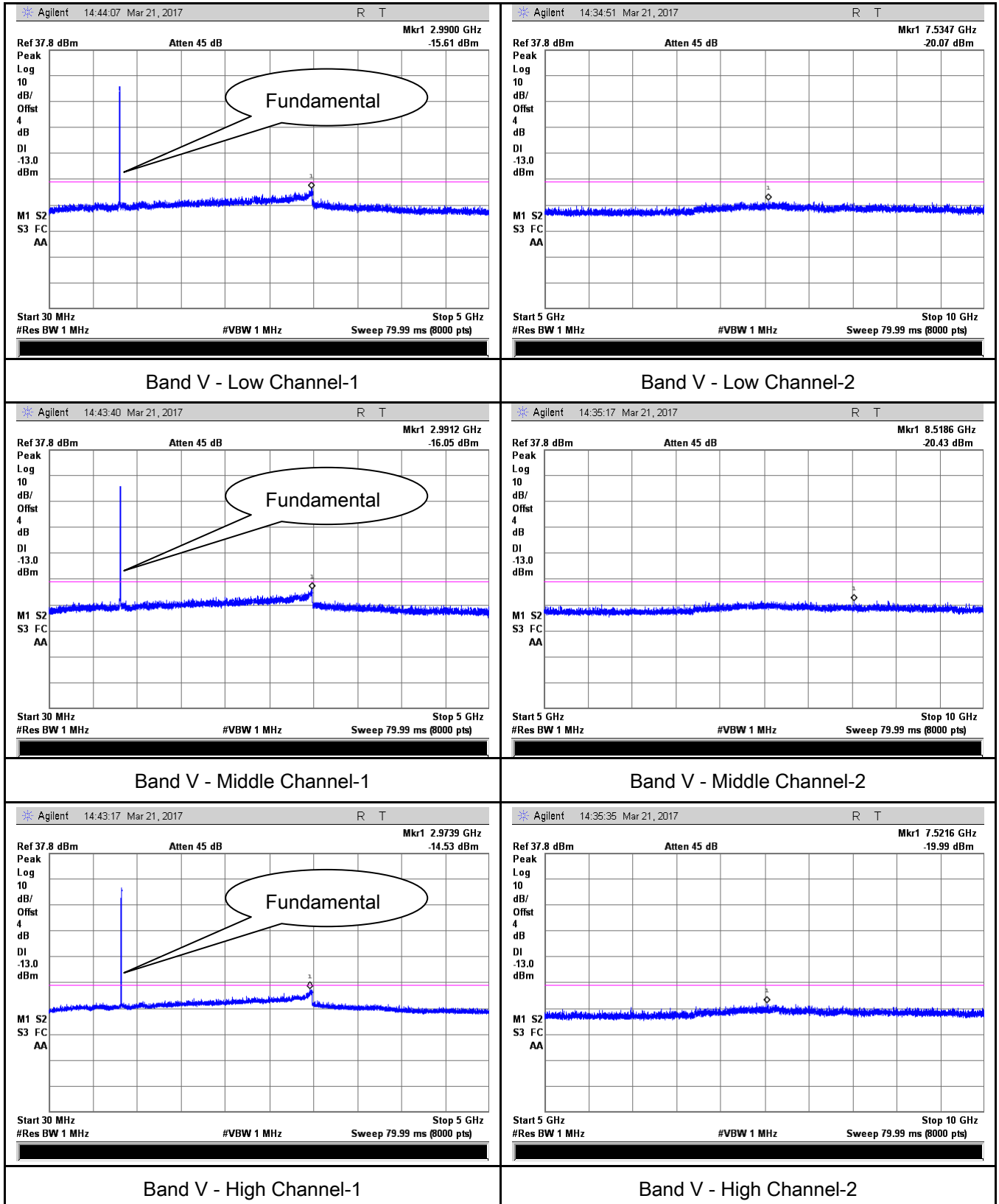
Band V - High Channel-1



Band V - High Channel-2

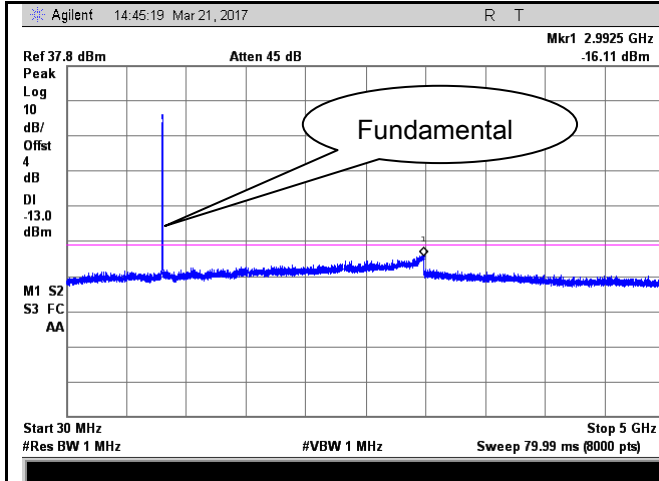
HSDPA:

UMTS-FDD Band V (Part 22H)

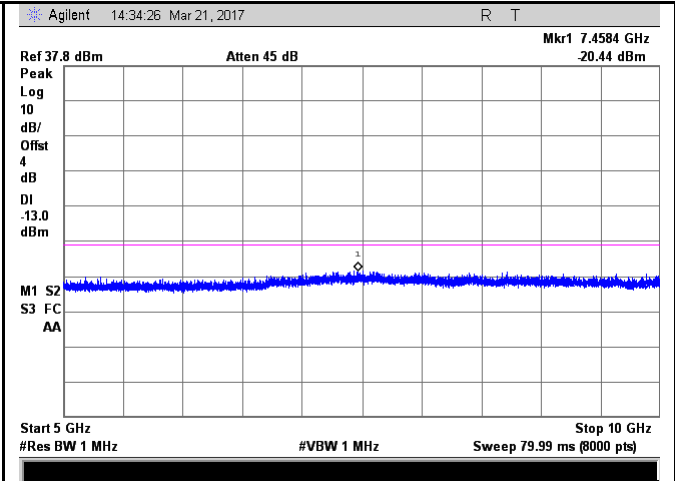


HSUPA:

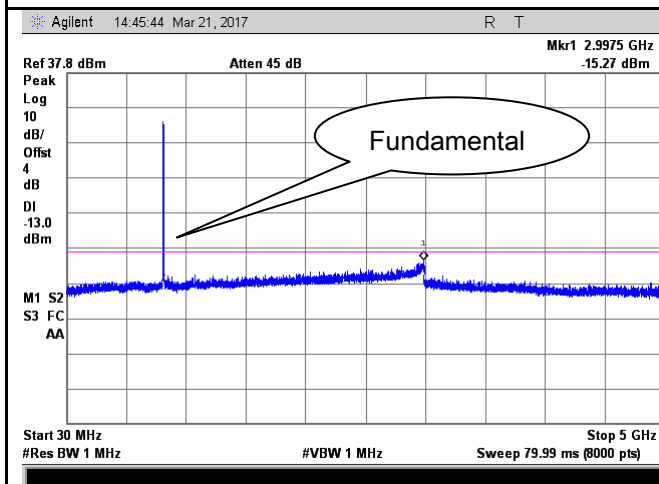
UMTS-FDD Band V (Part 22H)



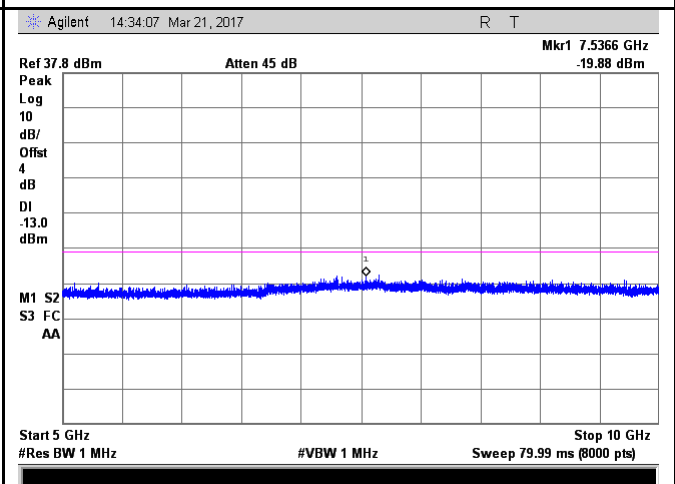
Band V - Low Channel-1



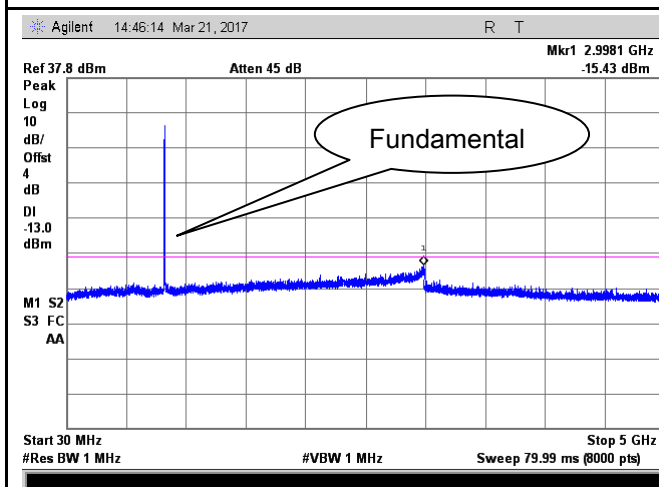
Band V - Low Channel-2



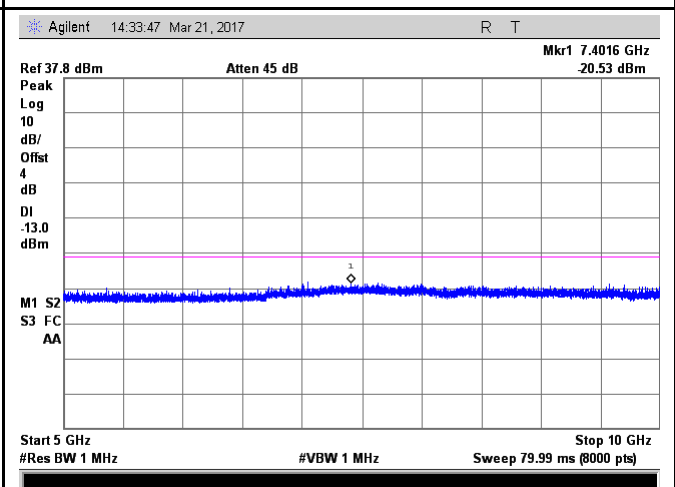
Band V - Middle Channel-1



Band V - Middle Channel-2



Band V - High Channel-1



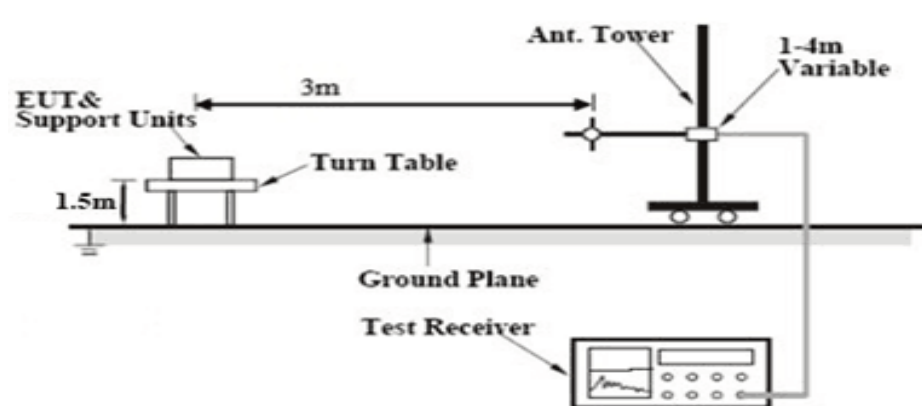
Band V - High Channel-2

6.6 Spurious Radiated Emissions

Temperature	25 °C
Relative Humidity	52%
Atmospheric Pressure	1028mbar
Test date :	March 28, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238	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	-44.98	V	7.95	0.78	-37.81	-13	-24.81
1648.4	-44.56	H	7.95	0.78	-37.39	-13	-24.39
323.3	-52.13	V	6.4	0.26	-45.99	-13	-32.99
605.1	-52.61	H	6.8	0.37	-46.18	-13	-33.18

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-43.59	V	7.95	0.78	-36.42	-13	-23.42
1673.2	-44.33	H	7.95	0.78	-37.16	-13	-24.16
323.9	-52.77	V	6.4	0.26	-46.63	-13	-33.63
604.7	-52.46	H	6.8	0.37	-46.03	-13	-33.03

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	-43.69	V	7.95	0.78	-36.52	-13	-23.52
1697.6	-43.57	H	7.95	0.78	-36.4	-13	-23.4
323.5	-52.85	V	6.4	0.26	-46.71	-13	-33.71
605.3	-52.76	H	6.8	0.37	-46.33	-13	-33.33

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	-48.99	V	10.25	2.73	-41.47	-13	-28.47
3700.4	-49.23	H	10.25	2.73	-41.71	-13	-28.71
325.7	-53.41	V	6.4	0.26	-47.27	-13	-34.27
606.6	-53.94	H	6.8	0.37	-47.51	-13	-34.51

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	-48.86	V	10.25	2.73	-41.34	-13	-28.34
3760	-49.51	H	10.25	2.73	-41.99	-13	-28.99
325.4	-53.42	V	6.4	0.26	-47.28	-13	-34.28
606.1	-53.73	H	6.8	0.37	-47.3	-13	-34.3

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	-48.91	V	10.36	2.73	-41.28	-13	-28.28
3819.6	-49.55	H	10.36	2.73	-41.92	-13	-28.92
325.9	-53.63	V	6.4	0.26	-47.49	-13	-34.49
606.3	-52.04	H	6.8	0.37	-45.61	-13	-32.61

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	-46.88	V	7.95	0.78	-39.71	-13	-26.71
1652.8	-46.03	H	7.95	0.78	-38.86	-13	-25.86
322.1	-52.85	V	6.4	0.26	-46.71	-13	-33.71
604.5	-53.41	H	6.8	0.37	-46.98	-13	-33.98

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	-46.79	V	7.95	0.78	-39.62	-13	-26.62
1670	-45.93	H	7.95	0.78	-38.76	-13	-25.76
323.7	-52.74	V	6.4	0.26	-46.6	-13	-33.6
605.1	-53.11	H	6.8	0.37	-46.68	-13	-33.68

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	-46.85	V	7.95	0.78	-39.68	-13	-26.68
1693.2	-45.98	H	7.95	0.78	-38.81	-13	-25.81
324.8	-52.76	V	6.4	0.26	-46.62	-13	-33.62
605.9	-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

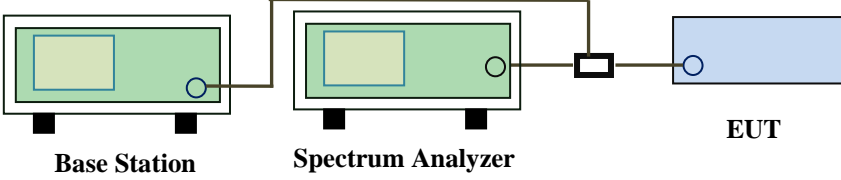
3, RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases

4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

6.7 Band Edge

Temperature	22 °C
Relative Humidity	54%
Atmospheric Pressure	1021mbar
Test date :	March 21, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a)	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>Base Station Spectrum Analyzer 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	-15.57	-13
849.0025	-16.06	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-16.95	-13
1910.0225	-16.14	-13

GPRS:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9800	-16.35	-13
849.0200	-15.66	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-16.07	-13
1910.0250	-16.82	-13

EGPRS (MCS5):

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9989	-16.98	-13
849.0025	-16.65	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-16.24	-13
1910.0200	-15.51	-13

RMC:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
824.000	-26.08	-13
849.275	-26.28	-13

HSDPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.550	-26.47	-13
849.200	-26.75	-13

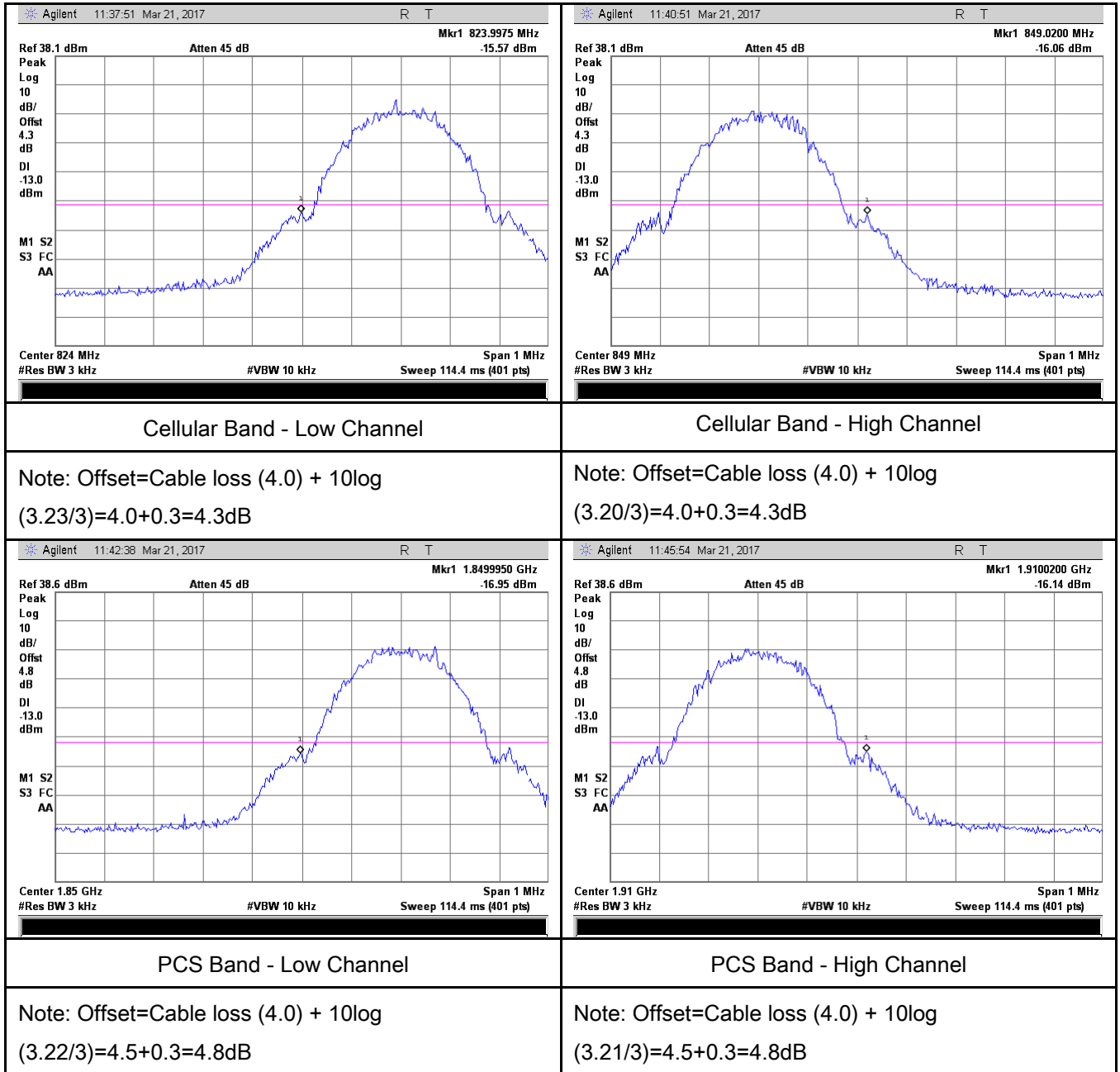
HSUPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.825	-26.38	-13
849.875	-25.84	-13

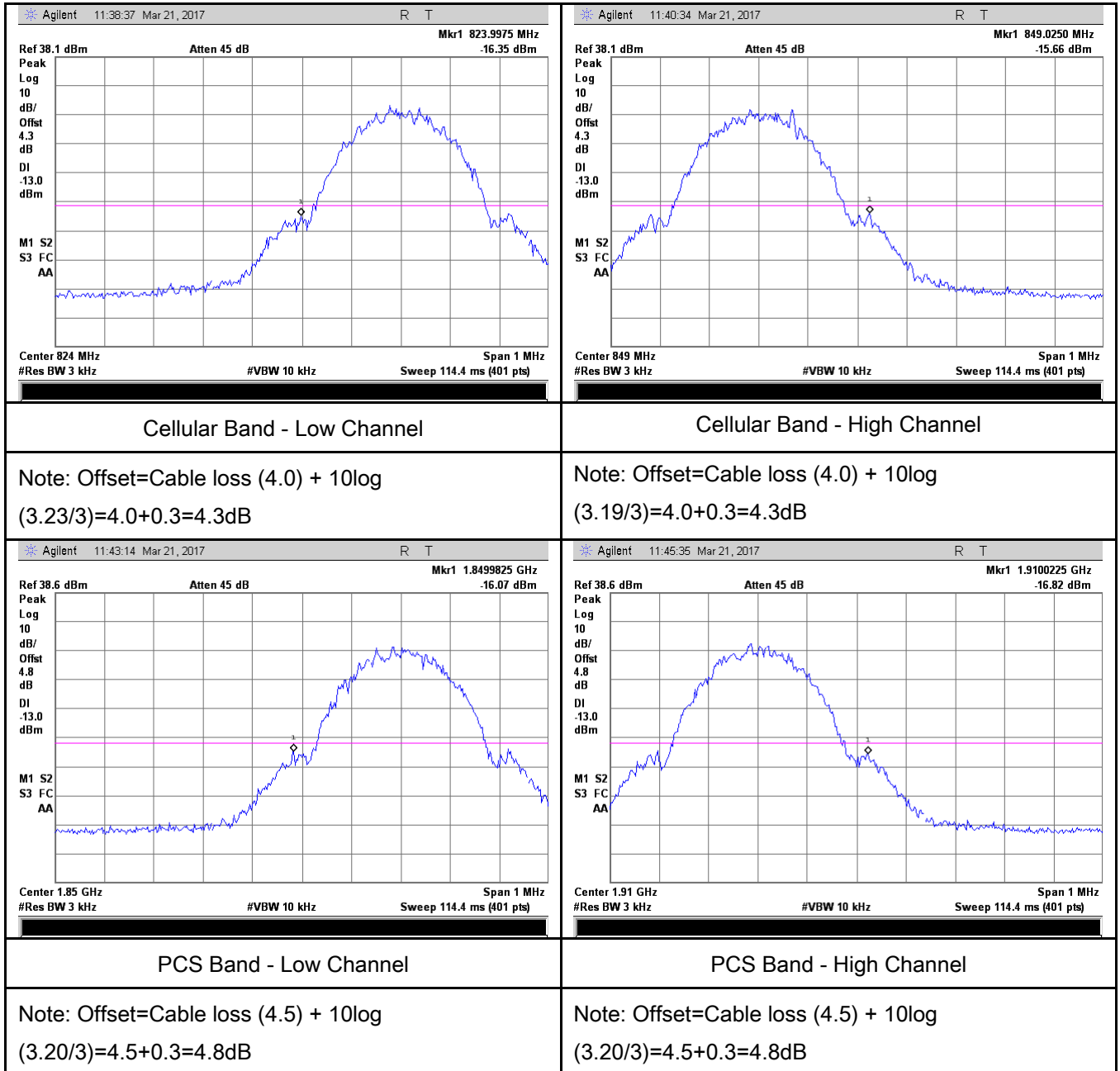
GSM Voice:

Test Plots



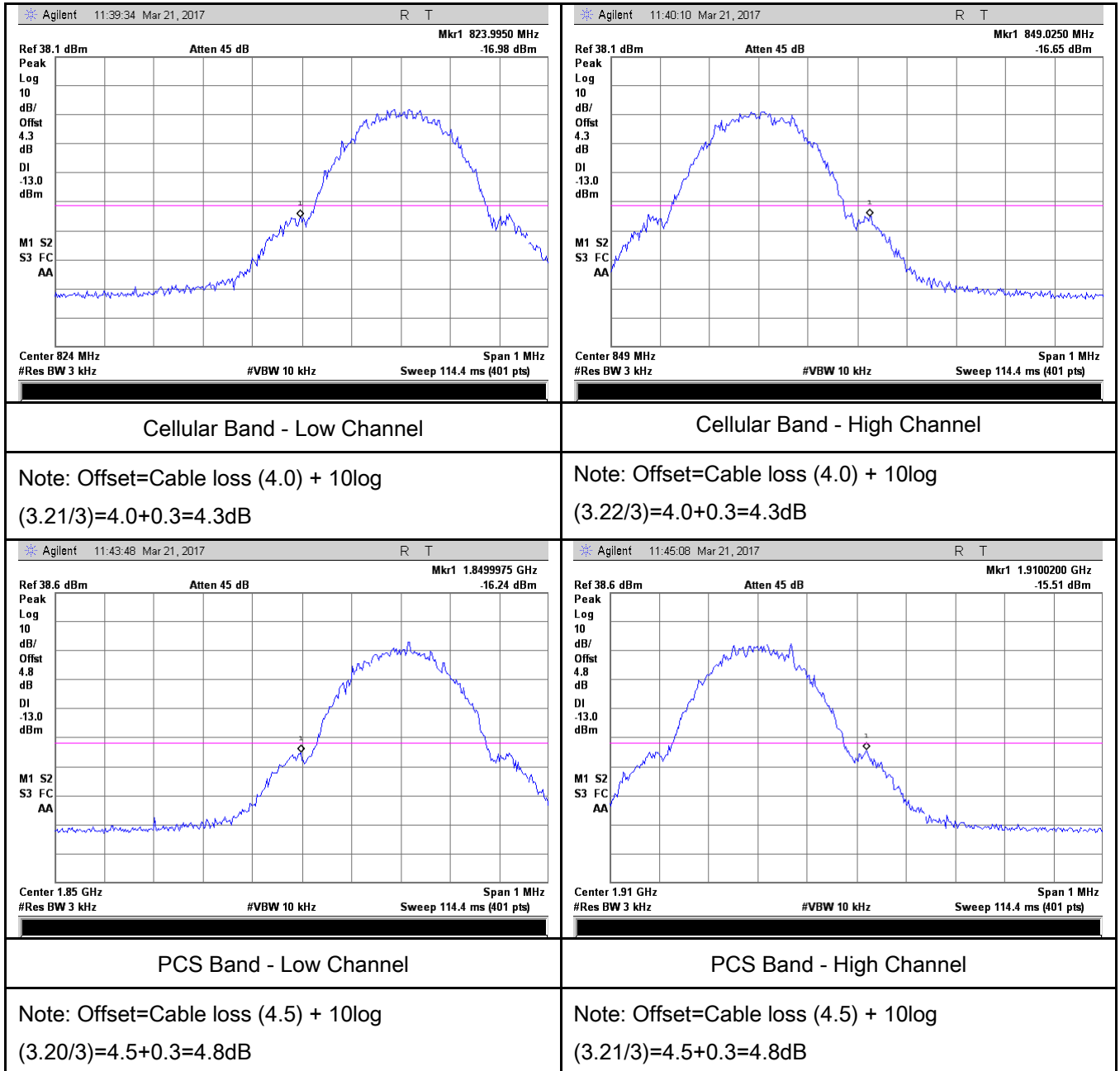
GPRS:

Test Plots

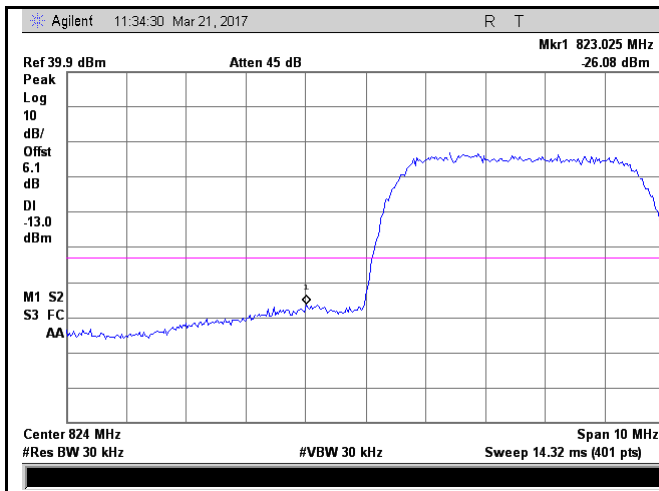


EGPRS (MCS5):

Test Plots

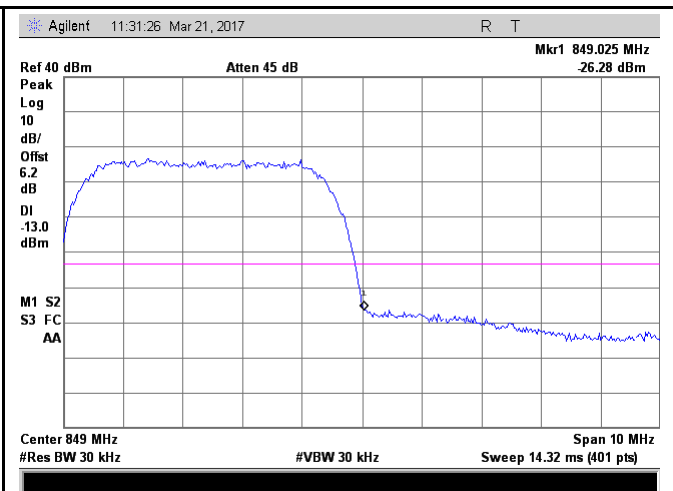


RMC:



UMTS-FDD Band V - Low Channel

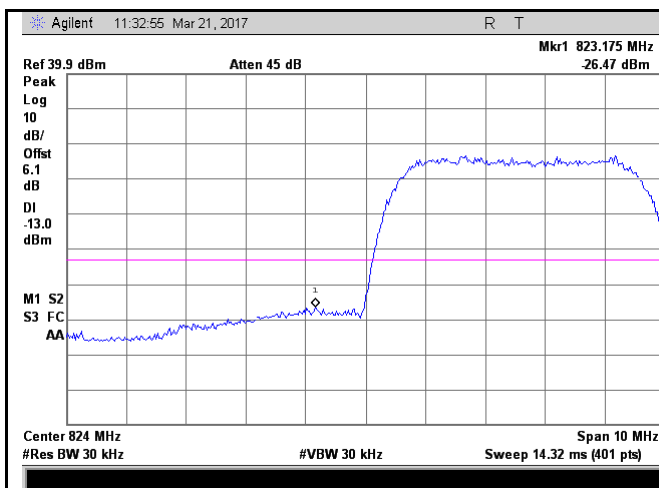
Note: Offset=Cable loss (4.0) + 10log
(48.95/30)=4.0+2.1=6.1 dB



UMTS-FDD Band V - High Channel

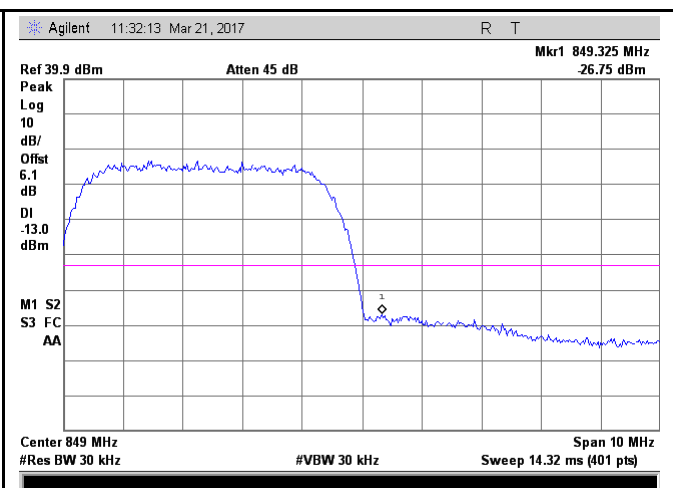
Note: Offset=Cable loss (4.0) + 10log
(49.24/30)=4.0+2.2=6.2 dB

HSDPA:



UMTS-FDD Band V - Low Channel

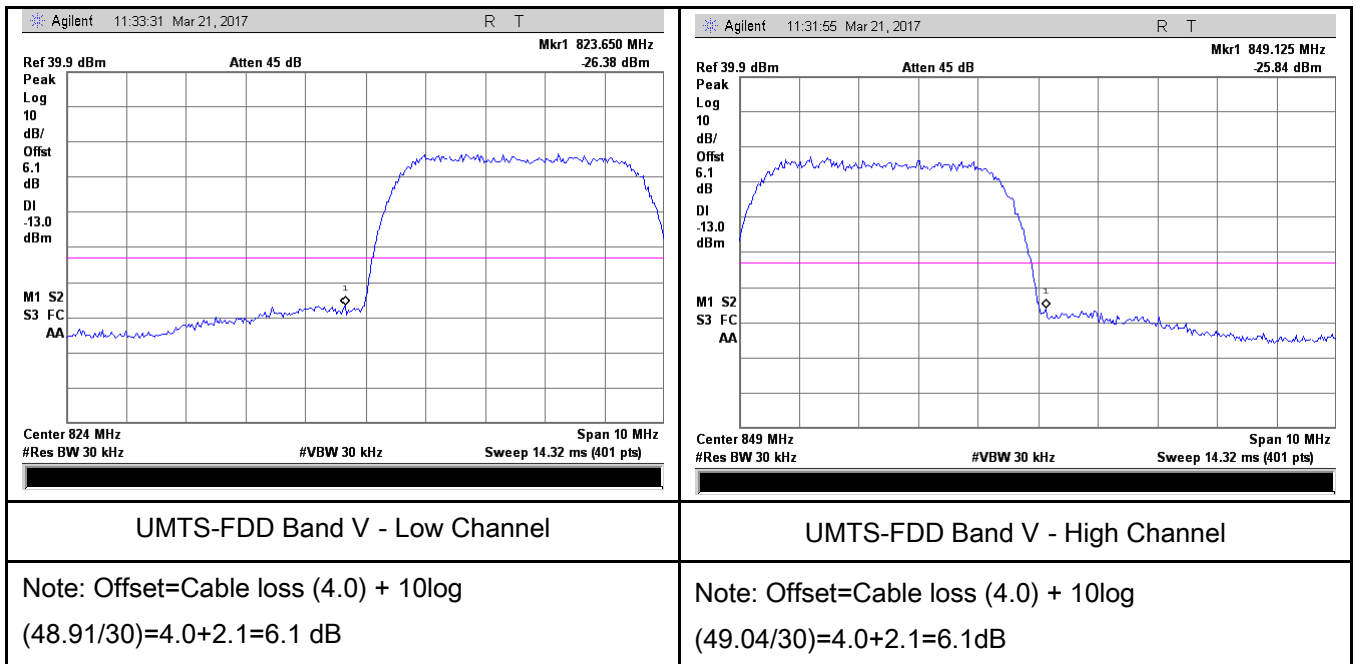
Note: Offset=Cable loss (4.0) + 10log
(48.80/30)=4.0+2.1=6.1 dB



UMTS-FDD Band V - High Channel

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


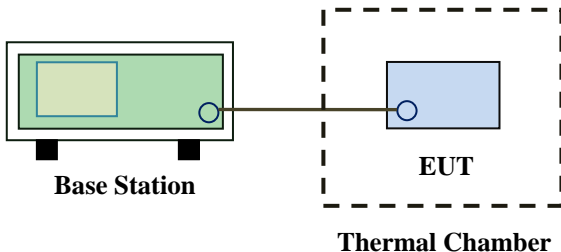
HSUPA:



6.8 Frequency Stability

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	March 20, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable																																
§2.1055, §22.355 & §24.235	a)	<p>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:</p> <p>Frequency Tolerance for Transmitters in the Public Mobile Services</p> <table border="1"> <thead> <tr> <th>Frequency Range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile ≤ 3 watts (m)</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 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> <p>According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.</p>	Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (m)	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 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 (m)	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 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																																
Test setup	 <p>The diagram shows a Base Station (represented by a green rectangle) connected by a line to an EUT (represented by a blue rectangle) which is enclosed within a dashed-line box labeled 'Thermal Chamber'.</p>																																		

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	20	0.0239	2.5
0		14	0.0167	2.5
10		13	0.0155	2.5
20		15	0.0179	2.5
30		16	0.0191	2.5
40		14	0.0167	2.5
50		19	0.0227	2.5
55		17	0.0203	2.5
25	4.2	21	0.0251	2.5
	3.5	20	0.0239	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	14	0.0074	2.5
0		15	0.0080	2.5
10		16	0.0085	2.5
20		14	0.0074	2.5
30		13	0.0069	2.5
40		16	0.0085	2.5
50		15	0.0080	2.5
55		19	0.0101	2.5
25	4.2	17	0.0090	2.5
	3.5	20	0.0106	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	12	0.0144	2.5
0		15	0.0180	2.5
10		16	0.0192	2.5
20		15	0.0180	2.5
30		15	0.0180	2.5
40		10	0.0120	2.5
50		19	0.0228	2.5
55		15	0.0180	2.5
25	4.2	12	0.0144	2.5
	3.5	14	0.0168	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	05/27/2016	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"/>

Test Report	17070197-FCC-R1
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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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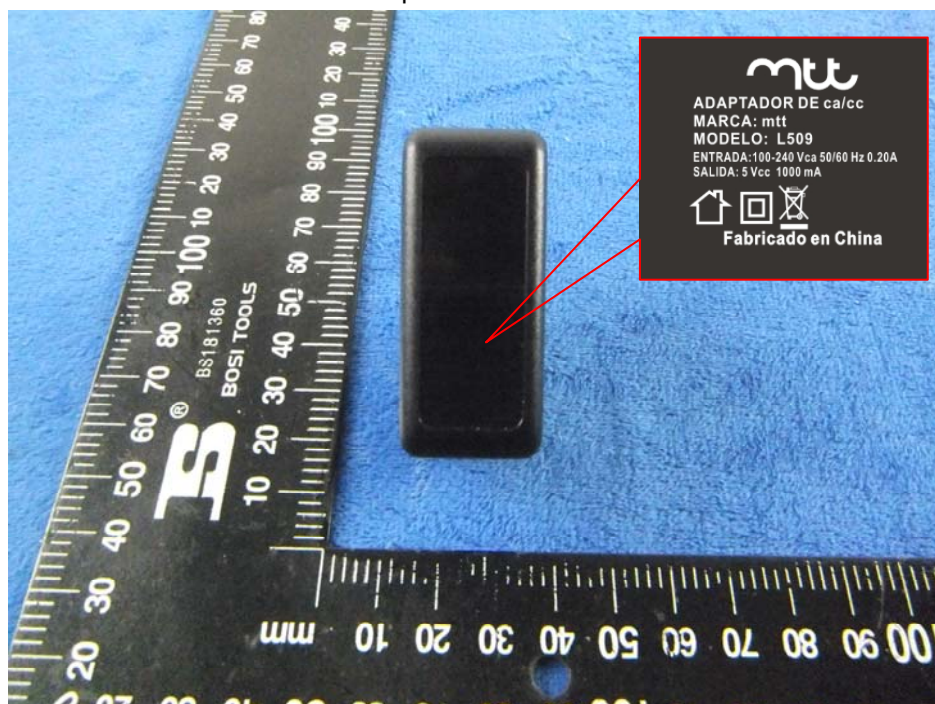
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Front View



EUT - Front View



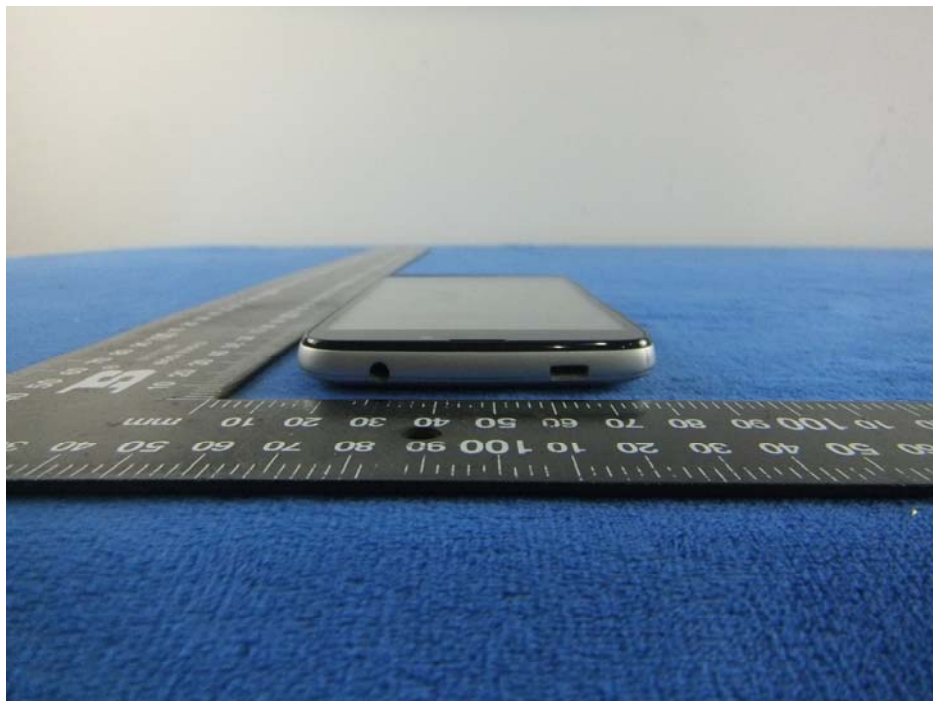
EUT - Rear View



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



Cover Off - Top View 3



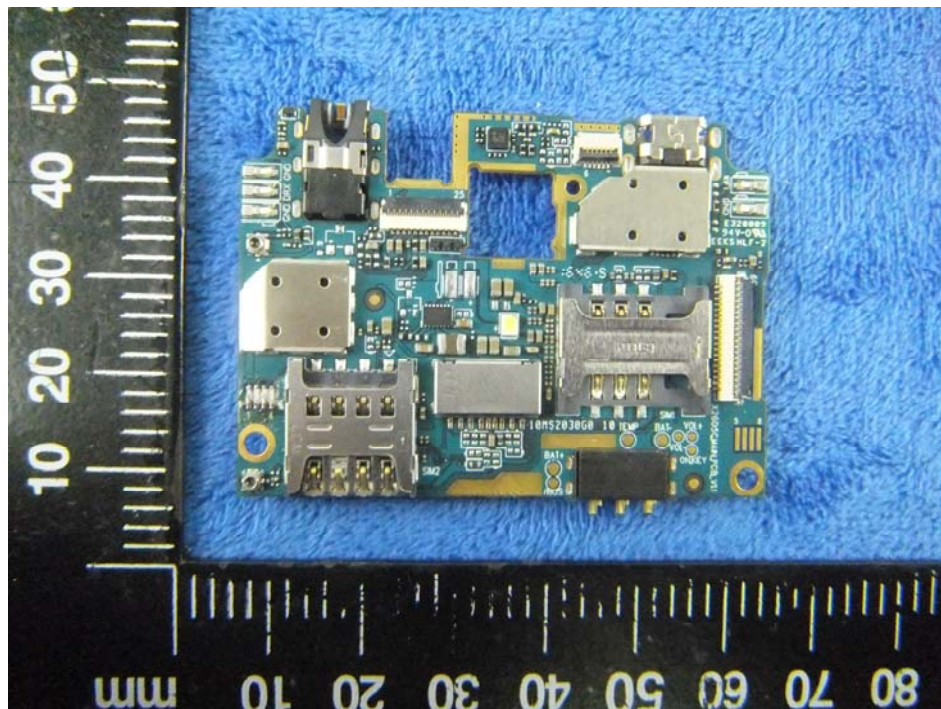
Battery - Front View



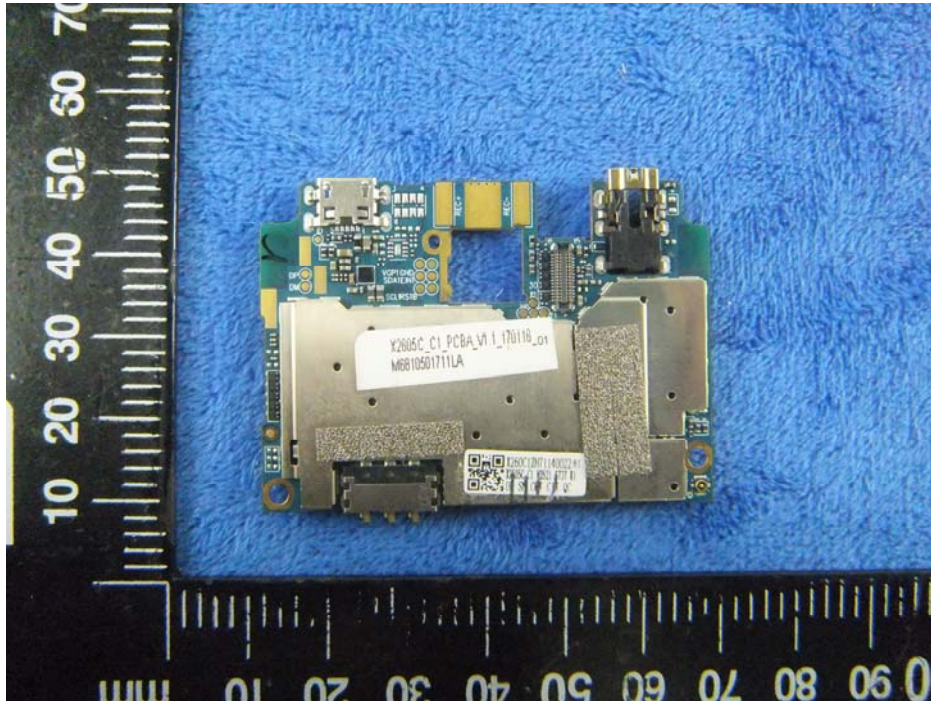
Battery - Rear View



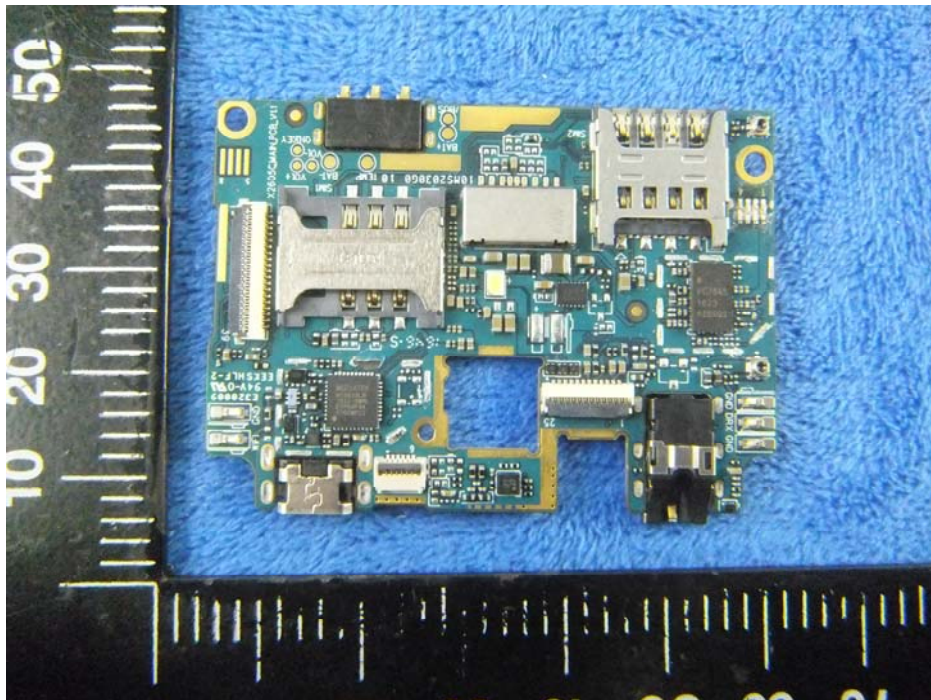
Small board - Front View



Small board - Rear View



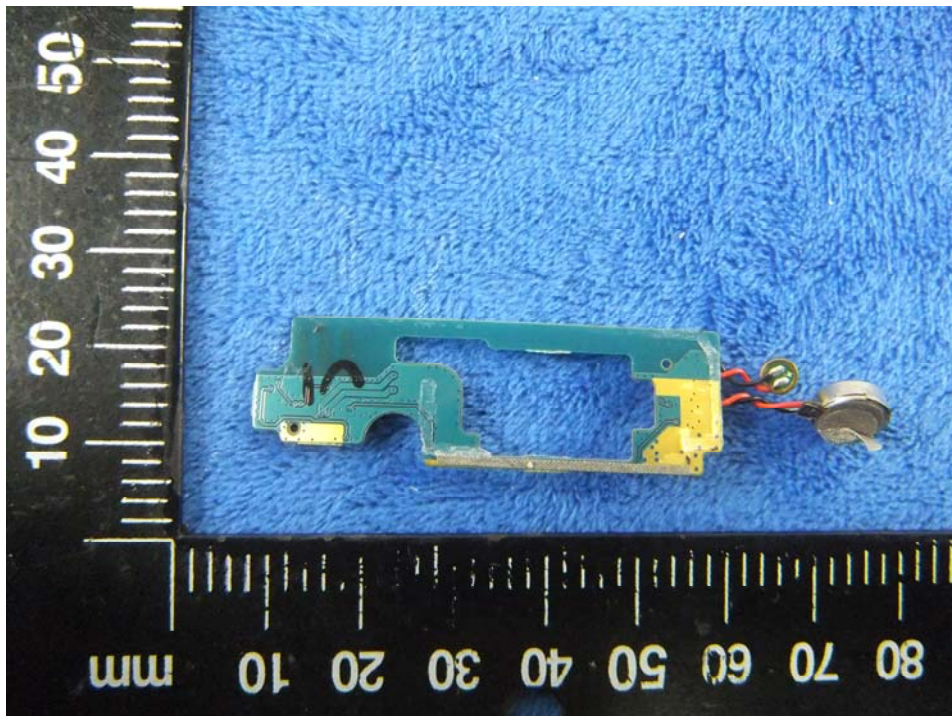
Mainboard - Front View



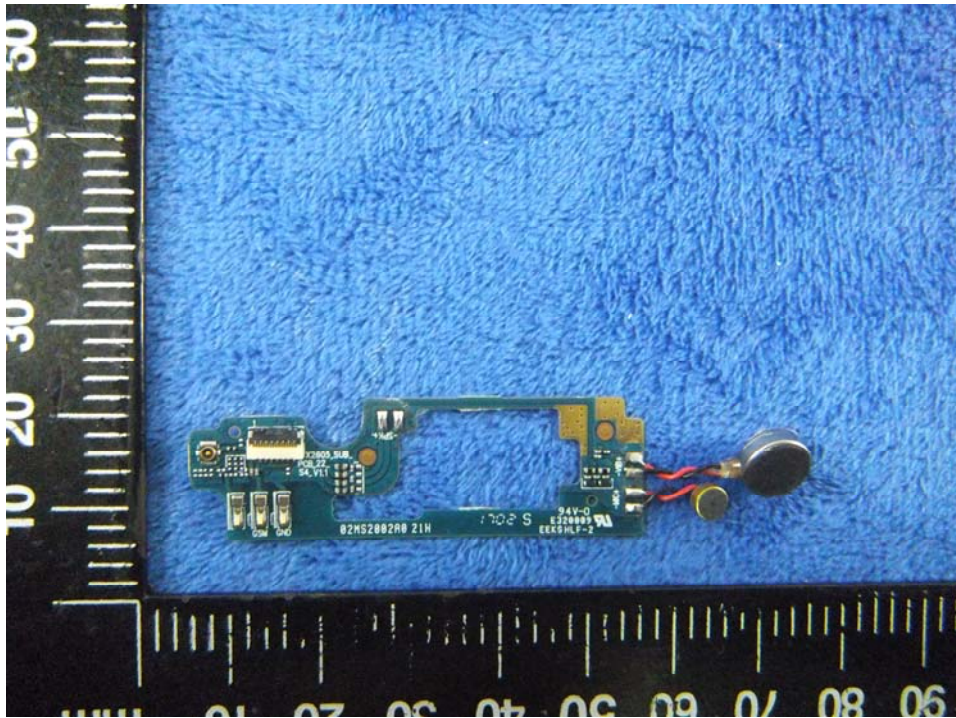
Mainboard - Rear View



Connected Mainboard – Front View



Connected Mainboard - Rear View



LCD - Front View



LCD – Rear View



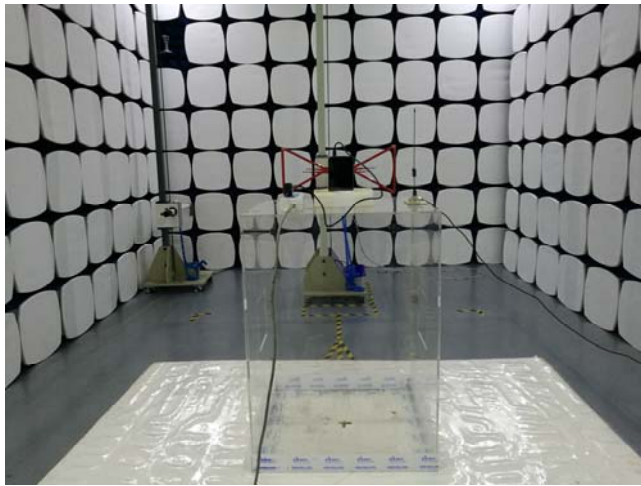
GSM/PCS/UMTS - Antenna View



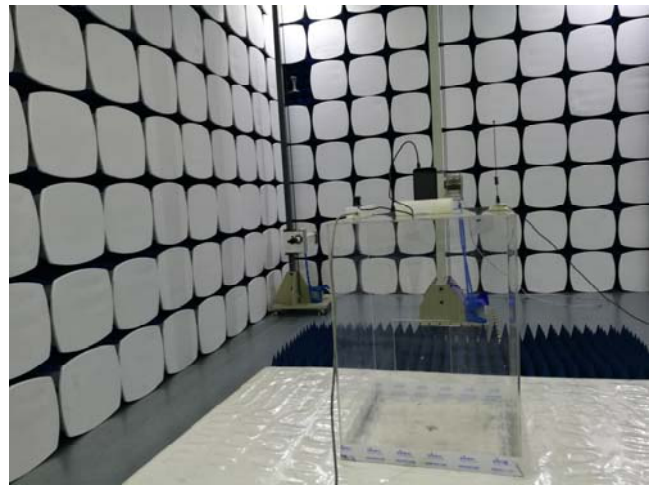
BT/WIFI/GPS - Antenna View



Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz

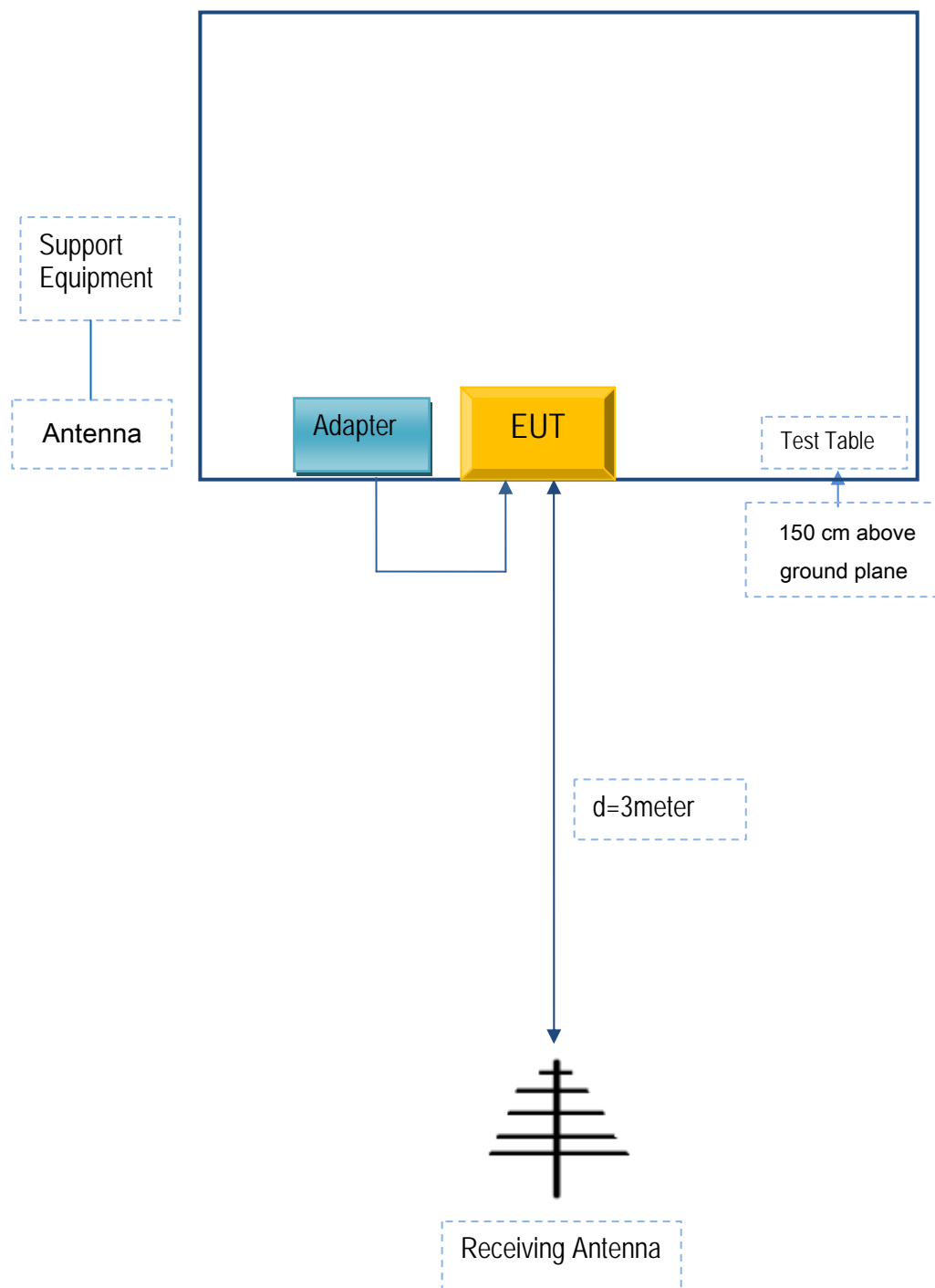


Radiated Spurious Emissions Test Setup Above
1GHz

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
MOVILTELCO TRADE, S.L.	Adapter	L509	A0423

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	A0423

Annex C.ii. EUT OPERATING CONKITIONS

N/A

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

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

MOVIL TELCO TRADE, S.L

To: SIEMIC ,775 Montague Expressway, Milpitas, CA 95035,USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 4 model numbers on the **FCC ID** certificates and reports, as following:

Model No.:L509

We declare that the difference of these is listed as below:

Main Model No	Serial Model No	Difference
L509	L591, L592, L593	Only color is not the same, Circuit schematic and PCB are the same

Thank you!

Signature:



Printed name/title:JOSE LUIS ROZPIDE/ manager

Tel:034-912213073

Fax:34 91 2213102

Address:Street:AB TAO,25-1Floor A-office MADRID-SPAIN