
FCC Test Report

Report No.: AGC00677200901FE02

FCC ID : 2ATS6M5PLUS
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Smartphone
BRAND NAME : Win
MODEL NAME : M5+
APPLICANT : Smartech,C.A..
DATE OF ISSUE : Oct. 27, 2020
STANDARD(S) : FCC Part 22H & 24E& 27L Rules
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 27, 2020	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	4
2.1 PRODUCT DESCRIPTION	5
2.2 RELATED SUBMITTAL(S) / GRANT (S).....	7
2.3 TEST METHODOLOGY	7
2.4 TEST FACILITY	8
2.6 SPECIAL ACCESSORIES	10
2.7 EQUIPMENT MODIFICATIONS.....	10
3. SYSTEM TEST CONFIGURATION	11
3.1 EUT CONFIGURATION	11
3.2 EUT EXERCISE.....	11
3.3 CONFIGURATION OF EUT SYSTEM	11
4. SUMMARY OF TEST RESULTS	12
5. DESCRIPTION OF TEST MODES.....	13
6. OUTPUT POWER	14
6.1 CONDUCTED OUTPUT POWER	14
6.2 RADIATED OUTPUT POWER	20
6.3. PEAK-TO-AVERAGE RATIO.....	24
7. OCCUPIED BANDWIDTH	26
7.1 MEASUREMENT METHOD.....	26
7.2 PROVISIONS APPLICABLE	26
7.3 MEASUREMENT RESULT	27
8. BAND EDGE.....	33
8.1 MEASUREMENT METHOD.....	33
8.2 PROVISIONS APPLICABLE	33
8.3 MEASUREMENT RESULT	34
9. SPURIOUS EMISSION	37
9.1 CONDUCTED SPURIOUS EMISSION	37
9.2 RADIATED SPURIOUS EMISSION	52
9.2.2 TEST SETUP.....	53
10. FREQUENCY STABILITY.....	57
10.1 MEASUREMENT METHOD.....	57
10.2 PROVISIONS APPLICABLE	58
10.3 MEASUREMENT RESULT	59
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	68
APPENDIX B: PHOTOGRAPHS OF EUT	69

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1. VERIFICATION OF COMPLIANCE

Applicant	Smartech,C.A..
Address	Manongo Avenue with Palma Real Street,C.C. Via Veneto,Milan Level,M32 Local,Manongo
Manufacturer	Smartech,C.A..
Address	Manongo Avenue with Palma Real Street,C.C. Via Veneto,Milan Level,M32 Local,Manongo
Factory	Smartech,C.A..
Address	Manongo Avenue with Palma Real Street,C.C. Via Veneto,Milan Level,M32 Local,Manongo
Product Designation	Smartphone
Brand Name	Win
Test Model	M5+
Date of test	Oct. 10, 2020~Oct. 27, 2020
Deviation	No any deviation from the test method.
Condition of Test Sample	Normal

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22H, 24E and 27L. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Donjon Huang
(Project Engineer)

Oct. 27, 2020

Reviewed By

Max Zhang
(Reviewer)

Oct. 27, 2020

Approved By

Forrest Lei
(Authorized Officer)

Oct. 27, 2020

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2. GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Smart Phone
Frequency Bands:	☒ GPRS 850 ☒ PCS1900 (U.S. Bands) ☒ GSM 900 ☒ DCS 1800 (Non-U.S. Bands) ☒ UMTS FDD Band II ☐ UMTS FDD Band IV ☒ UMTS FDD Band V (U.S. Bands) ☐ UMTS FDD Band I ☒ UMTS FDD Band VIII (Non-U.S. Bands)
Hardware Version	J517D_63_32EMB_D3EFV1.0
Software Version	Win_M5plus_V1.0_20201027
Antenna Type	PIFA Antenna
Antenna gain	GSM850:0.99dBi; PCS1900: 1.17dBi WCDMA850:0.99dBi; WCDMA1900:1.17dBi
Power Supply:	DC 3.8V by Built-in Li-ion Battery
Battery parameter:	DC 3.8V 2300mAh
Dual Card:	GSM /WCDMA Card Slot
GPRS Class	12
Extreme Vol. Limits:	DC3.23V to 4.35V (Normal: DC 3.8V)
Extreme Temp. Tolerance	-10℃ to +40℃
*** Note: 1. The High Voltage DC4.35 V and Low Voltage DC3.23V were declared by manufacturer 2. The EUT couldn't be operating normally with higher or lower voltage.	

*** **Note:**1.The maximum power levels are GSM for MCS-4: GMSK link, and RMC 12.2kbps mode for WCDMA band II, WCDMA band V only these modes were used for all tests.

2. We found out the test mode with the highest power level after we analyze all the data rates. So we chose worst cases a representative.

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GSM/WCDMA Slot 1:

	Maximum ERP/EIRP (dBm)	Max. Average Burst Power (dBm)
GSM 850	31.51	33.33
PCS 1900	28.30	29.36
UMTS BAND V	21.77	23.70
UMTS BAND II	21.39	22.76

GSM/WCDMA Slot 2:

	Maximum ERP/EIRP (dBm)	Max. Average Burst Power (dBm)
GSM 850	28.97	30.78
PCS 1900	27.03	28.06

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2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ATS6M5PLUS**, filing to comply with the FCC Part 22H&24E&27L requirements.

2.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI/TIA-603-E-2016, and KDB 971168 D01 Power Means License Digital Systems V03R01.

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2.4 TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

ALL TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2021
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec.18, 2019	Dec.17, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	768	Oct. 09, 2019	Oct. 08, 2021
preamplifier	ChengYi	EMC184045SE	980508	Sep. 21, 2020	Sep. 20, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.10, 2020	Jun.09, 2021
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.20, 2019	Sep.19, 2021
SIGNAL ANALYZER	Agilent	N9020A	MY52090123	Sep. 03, 2020	Sep. 02, 2021
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	Jun. 08, 2020	Jun. 07, 2021
Universal Radio Communication Tester	R&S	CMU200	120237	Jul. 03, 2020	Jul. 02, 2022
Universal Radio Communication Tester	Agilent	8960	GB46200384	Aug. 20, 2020	Aug. 21, 2021
Power Splitter	Agilent	11636A	34	Jun.10, 2020	Jun.09, 2021
Attenuator	JFW	50FHC-006-50	N/A	Jun.10, 2020	Jun.09, 2021
Horn Antenna	Schwarzbeck	BBHA 9170		Sep. 21, 2019	Sep. 20, 2021

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Horn Ant (18G-40GHz)	ETS	QWH_SL_18_4 0_K_SG		Sep. 21, 2019	Sep. 20, 2021
Power Splitter	Agilent	11636A	/	Sep.16, 2020	Sep.15, 2021
CMU200	R&S	120237	/	July 03, 2020	July 02, 2022
Artificial Mains Network ENV216	R&S	101242	/	July 03, 2020	July 02, 2022
Filter Bank Notch 1(880-915MHz)	MICRO-TRONICS	010	/	Feb. 25, 2020	Feb. 24, 2021
Filter Bank Notch 2 (1710-1785MHz)	MICRO-TRONICS	009	/	Feb. 25, 2020	Feb. 24, 2021
Filter Bank Notch 3 (1920-1980MHz)	MICRO-TRONICS	008	/	Feb. 25, 2020	Feb. 24, 2021

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2.6 SPECIAL ACCESSORIES

The battery was supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

2.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. SYSTEM TEST CONFIGURATION

3.1 EUT CONFIGURATION

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

3.2 EUT EXERCISE

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

3.3 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System



Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Remark
1	Smartphone	M5+	2ATS6M5PLUS	EUT
2	Adapter	M5+	DC 5V 1A	AE
3	Battery	M5+	DC 3.8V 2300mAh	AE
4	Earphone	N/A	N/A	AE
5	USB Cable	N/A	N/A	AE

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

4. SUMMARY OF TEST RESULTS

Item Number	Item Description		FCC Rules	Result
1	Output Power	Conducted Output Power	2.1046	Pass
		Radiated Output Power	22.913(a) (2) / 24.232 (c)/ 27.50(d)(4)	
2	Peak-to-Average Ratio	Peak-to-Average Ratio	24.232(d)	Pass
3	Spurious Emission	Conducted Spurious Emission	2.1051/22.917(a)/24.238(a)/ 27.53(h)	Pass
		Radiated Spurious Emission		
4	Frequency Stability		2.1053/22.917(a)/24.238(a)/27.53(h)	Pass
5	Occupied Bandwidth		2.1049	Pass
6	Band Edge		2.1051/22.917(a)/24.238(a)/ 27.53(h)	Pass

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5. DESCRIPTION OF TEST MODES

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

*****Note:** GSM/EGPRS 850, GSM/EGPRS 1900, WCDMA/HSPA band II, WCDMA/HSPA band V mode have been tested during the test.

The worst condition was recorded in the test report if no other modes test data.

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6. OUTPUT POWER

6.1 CONDUCTED OUTPUT POWER

6.1.1 MEASUREMENT METHOD

The transmitter output port was connected to base station.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Measure the maximum burst average power and average power for other modulation signal.

The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all modes(GSM/EGPRS 850, GSM/EGPRS 1900, WCDMA/HSPA band II, WCDMA/HSPA band V)at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

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GSM 850:

Mode	Frequency (MHz)	Avg.Burst Power	Duty cycle Factor(dB)	Frame Power(dBm)
GSM 850	824.2	32.59	-9	23.59
	836.6	33.33	-9	24.33
	848.8	32.41	-9	23.41
GPRS 850 (1 Slot)	824.2	32.32	-9	23.32
	836.6	33.10	-9	24.10
	848.8	32.21	-9	23.21
GPRS 850 (2 Slot)	824.2	30.74	-6	24.74
	836.6	30.69	-6	24.69
	848.8	30.75	-6	24.75
GPRS 850 (3 Slot)	824.2	28.81	-4.26	24.55
	836.6	28.74	-4.26	24.48
	848.8	28.65	-4.26	24.39
GPRS 850 (4 Slot)	824.2	27.77	-3	24.77
	836.6	27.58	-3	24.58
	848.8	27.66	-3	24.66

Mode	Channel	Frequency (MHz)	Avg.Burst Power (dBm)
EDGE (1 Slot)	128	824.2	25.78
	190	836.6	26.18
	251	848.8	25.49
EDGE (2 Slot)	128	824.2	24.74
	190	836.6	24.19
	251	848.8	24.58
EDGE (3 Slot)	128	824.2	22.42
	190	836.6	22.34
	251	848.8	22.33
EDGE (4 Slot)	128	824.2	20.28
	190	836.6	20.85
	251	848.8	20.71

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PCS 1900:

Mode	Frequency (MHz)	Avg.Burst Power	Duty cycle Factor(dB)	Frame Power(dBm)
GSM1900	1850.2	28.09	-9	19.09
	1880	29.36	-9	20.36
	1909.8	28.69	-9	19.69
GPRS1900 (1 Slot)	1850.2	28.16	-9	19.16
	1880	29.68	-9	20.68
	1909.8	28.69	-9	19.69
GPRS 1900 (2 Slot)	1850.2	27.83	-6	21.83
	1880	27.91	-6	21.91
	1909.8	27.77	-6	21.77
GPRS 1900 (3 Slot)	1850.2	26.25	-4.26	21.99
	1880	26.41	-4.26	22.15
	1909.8	26.39	-4.26	22.13
GPRS 1900 (4 Slot)	1850.2	24.42	-3	21.42
	1880	24.28	-3	21.28
	1909.8	24.40	-3	21.4

Mode	Channel	Frequency (MHz)	Avg.Burst Power (dBm)
EDGE (1 Slot)	512	1850.2	23.36
	661	1880	25.42
	810	1909.8	25.58
EDGE (2 Slot)	512	1850.2	24.19
	661	1880	24.22
	810	1909.8	24.30
EDGE (3 Slot)	512	1850.2	22.28
	661	1880	22.42
	810	1909.8	22.37
EDGE (4 Slot)	512	1850.2	20.14
	661	1880	20.25
	810	1909.8	20.27

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UMTS BAND V

Mode	Frequency (MHz)	Reference power	Avg.Burst Power
WCDMA 850 RMC	826.4	24	23.46
	836.4	24	23.70
	846.6	24	23.70
WCDMA850 AMR	826.4	24	23.58
	836.4	24	23.44
	846.6	24	23.61
HSDPA Subtest 1	826.4	24	22.46
	836.4	24	22.59
	846.6	24	22.58
HSDPA Subtest 2	826.4	24	22.06
	836.4	24	22.24
	846.6	24	22.20
HSDPA Subtest 3	826.4	24	21.86
	836.4	24	22.05
	846.6	24	21.81
HSDPA Subtest 4	826.4	24	21.69
	836.4	24	21.92
	846.6	24	21.68
HSUPA Subtest 1	826.4	24	20.57
	836.4	24	21.60
	846.6	24	21.39
HSUPA Subtest 2	826.4	24	21.03
	836.4	24	21.06
	846.6	24	20.90
HSUPA Subtest 3	826.4	24	21.37
	836.4	24	21.66
	846.6	24	21.37
HSUPA Subtest 4	826.4	24	20.67
	836.4	24	20.69
	846.6	24	20.60
HSUPA Subtest 5	826.4	24	23.31
	836.4	24	23.34
	846.6	24	23.42

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UMTS BAND II

Mode	Frequency (MHz)	Reference power	Avg.Burst Power
WCDMA 1900 RMC	1852.4	24	22.63
	1880	24	22.76
	1907.6	24	22.54
WCDMA1900 AMR	1852.4	24	22.14
	1880	24	22.35
	1907.6	24	22.28
HSDPA Subtest 1	1852.4	24	22.02
	1880	24	22.10
	1907.6	24	21.50
HSDPA Subtest 2	1852.4	24	21.59
	1880	24	21.49
	1907.6	24	20.97
HSDPA Subtest 3	1852.4	24	21.35
	1880	24	21.56
	1907.6	24	21.17
HSDPA Subtest 4	1852.4	24	21.03
	1880	24	21.18
	1907.6	24	20.88
HSUPA Subtest 1	1852.4	24	18.43
	1880	24	18.93
	1907.6	24	18.59
HSUPA Subtest 2	1852.4	24	19.56
	1880	24	19.16
	1907.6	24	19.06
HSUPA Subtest 3	1852.4	24	19.54
	1880	24	19.21
	1907.6	24	17.67
HSUPA Subtest 4	1852.4	24	19.73
	1880	24	19.32
	1907.6	24	19.00
HSUPA Subtest 5	1852.4	24	21.42
	1880	24	21.40
	1907.6	24	21.01

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

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

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

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

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

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

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

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6.2 RADIATED OUTPUT POWER

6.2.1 MEASUREMENT METHOD

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

1. Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signal operating below 1GHz are performed using dipole antennas. Measurements on signals operating above 1GHz are performed using broadband horn antennas. All measurements are performed as RMS average measurements while the EUT operating at its maximum duty cycle, at maximum power, and at the approximate frequencies.
2. In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (P_{in}) is applied to the input of the dipole, and the power received (P_r) at the chamber's probe antenna is recorded.
3. The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established as $AR_{pl} = P_{in} + 2.15 - P_r$. The AR_{pl} is the attenuation of "reference path loss", and including the gain of receive antenna, the cable loss and the air loss. The measurement results are obtained as described below: $Power = P_{Mea} + AR_{pl}$
4. The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
5. From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
6. The EUT is then put into continuously transmitting mode at its maximum power level.
7. Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step 1 is added to this result.
8. This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (P_{in}).
9. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15 \text{ dBi}$...

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6.2.2 PROVISIONS APPLICABLE

Mode	Nominal Peak Power
GSM/EGPRS 850	$\leq 38.45\text{dBm}$ (7W). ERP
GSM/EGPRS 1900	$\leq 33\text{dBm}$ (2W). EIRP
UMTS BAND II	$\leq 33\text{dBm}$ (2W).EIRP
UMTS BAND V	$\leq 38.45\text{dBm}$ (7W).ERP

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6.2.3 MEASUREMENT RESULT

Radiated Power (ERP) for GSM/EGPRS 850				
Mode	Frequency	Result		Conclusion
		Max. Peak ERP (dBm)	Polarization Of Max. ERP	
GSM	824.2	31.47	Horizontal	Pass
	836.6	31.51	Horizontal	Pass
	848.8	31.38	Horizontal	Pass
	824.2	28.46	Vertical	Pass
	836.6	28.51	Vertical	Pass
	848.8	28.58	Vertical	Pass
EGPRS	824.2	24.98	Horizontal	Pass
	836.6	24.87	Horizontal	Pass
	848.8	24.79	Horizontal	Pass
	824.2	22.68	Vertical	Pass
	836.6	22.44	Vertical	Pass
	848.8	22.51	Vertical	Pass

Radiated Power (E.I.R.P) for GSM/EGPRS 1900				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P.(dBm)	Polarization Of Max. E.I.R.P.	
GSM	1850.2	28.21	Horizontal	Pass
	1880.0	28.30	Horizontal	Pass
	1909.8	28.12	Horizontal	Pass
	1850.2	26.30	Vertical	Pass
	1880.0	26.25	Vertical	Pass
	1909.8	26.42	Vertical	Pass
EGPRS	1850.2	25.23	Horizontal	Pass
	1880.0	25.10	Horizontal	Pass
	1909.8	25.09	Horizontal	Pass
	1850.2	23.11	Vertical	Pass
	1880.0	23.24	Vertical	Pass
	1909.8	23.28	Vertical	Pass

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Radiated Power (E.I.R.P) for UMTS band II				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P (dBm)	Polarization Of Max. E.I.R.P	
UMTS	1852.4	21.39	Horizontal	Pass
	1880	21.16	Horizontal	Pass
	1907.6	21.28	Horizontal	Pass
	1852.4	19.77	Vertical	Pass
	1880	19.64	Vertical	Pass
	1907.6	19.50	Vertical	Pass

Radiated Power (ERP) for UMTS band V				
Mode	Frequency	Result		Conclusion
		Max. Peak ERP (dBm)	Polarization Of Max. ERP	
UMTS	826.4	21.77	Horizontal	Pass
	836.4	21.61	Horizontal	Pass
	846.6	21.46	Horizontal	Pass
	826.4	20.63	Vertical	Pass
	836.4	20.58	Vertical	Pass
	846.6	20.44	Vertical	Pass

Note: Above is the worst mode data.

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6.3. PEAK-TO-AVERAGE RATIO

6.3.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1 to measure the total peak power and record as PPK. Use one of the applicable procedures presented 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

6.3.2 PROVISIONS APPLICABLE

This is the test for the Peak-to-Average Ratio from the EUT.

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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6.3.3 MEASUREMENT RESULT

Modes	GSM850(GSM)		
Channel	128	190	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.6	848.8
Peak-To-Average Ratio (dB)/GSM	1.28	1.42	1.31

Modes	PCS1900 (GSM)		
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
Peak-To-Average Ratio (dB)/GSM	2.00	1.96	1.75

Modes	UMTS BAND II		
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency (MHz)	1852.4	1880	1907.6
Peak-To-Average Ratio (dB)	1.00	0.87	1.03

Modes	UMTS BAND V		
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency (MHz)	826.4	836.4	846.6
Peak-To-Average Ratio (dB)	1.11	1.25	1.11

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7. OCCUPIED BANDWIDTH

7.1 MEASUREMENT METHOD

1. The Occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper Frequency limits, the mean power radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.
2. RBW=1~5% of the expected OBW, VBW $\geq$ 3 x RBW, Detector=Peak, Trace mode=max hold, Sweep=auto couple, and the trace was allowed to stabilize.

7.2 PROVISIONS APPLICABLE

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

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7.3 MEASUREMENT RESULT

Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
GSM 850	GSM	LCH	244.2	312	PASS
		MCH	244.9	316	PASS
		HCH	246.0	310	PASS
	EGPRS	LCH	251.2	315	PASS
		MCH	255.2	312	PASS
		HCH	255.5	314	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
PCS 1900	GSM	LCH	245.6	316	PASS
		MCH	246.3	312	PASS
		HCH	248.8	311	PASS
	EGPRS	LCH	242.7	307	PASS
		MCH	244.6	309	PASS
		HCH	249.3	309	PASS

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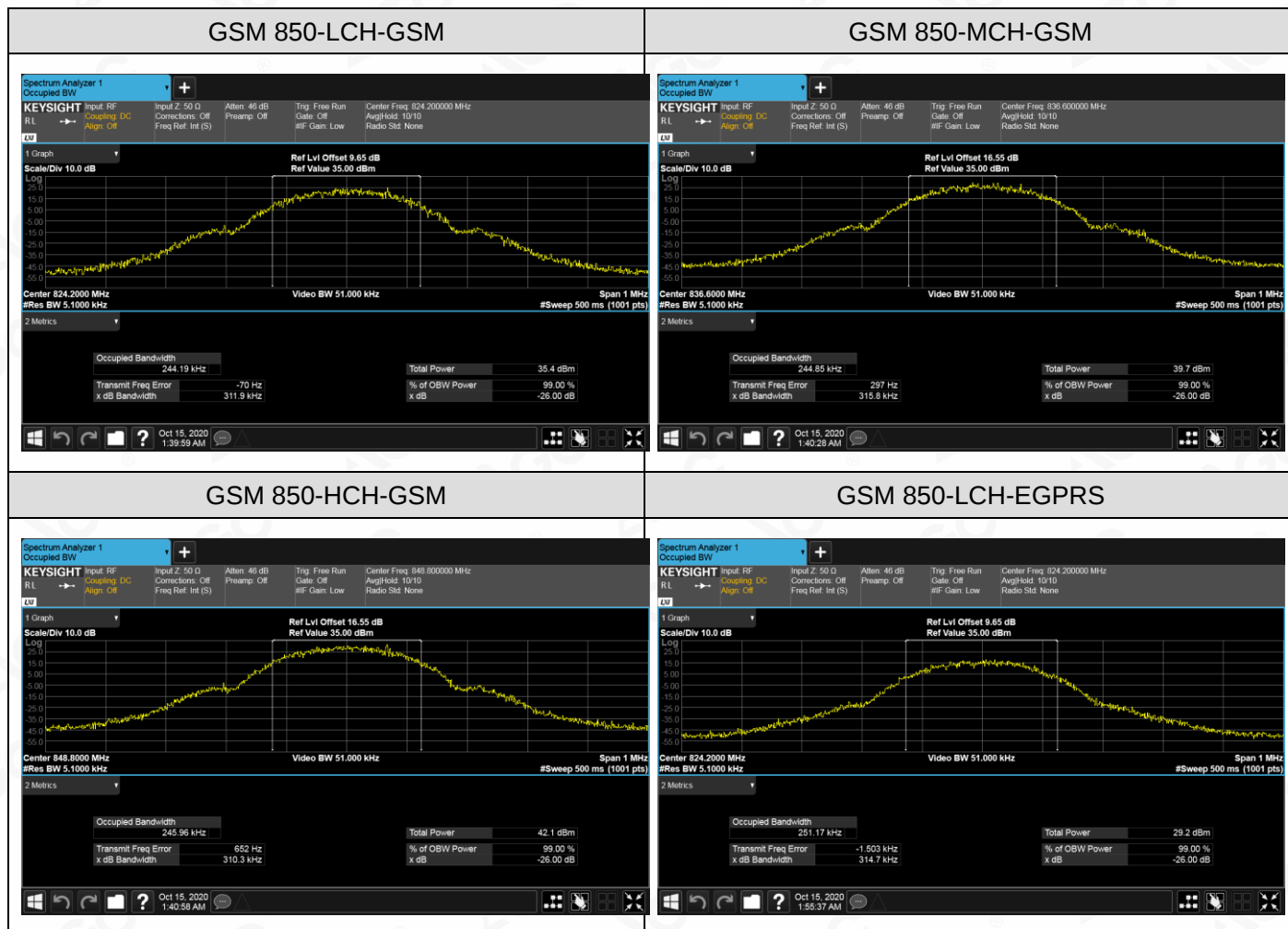
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For GSM

Test Band=GSM 850/PCS1900

Test Mode= GSM/EGPRS



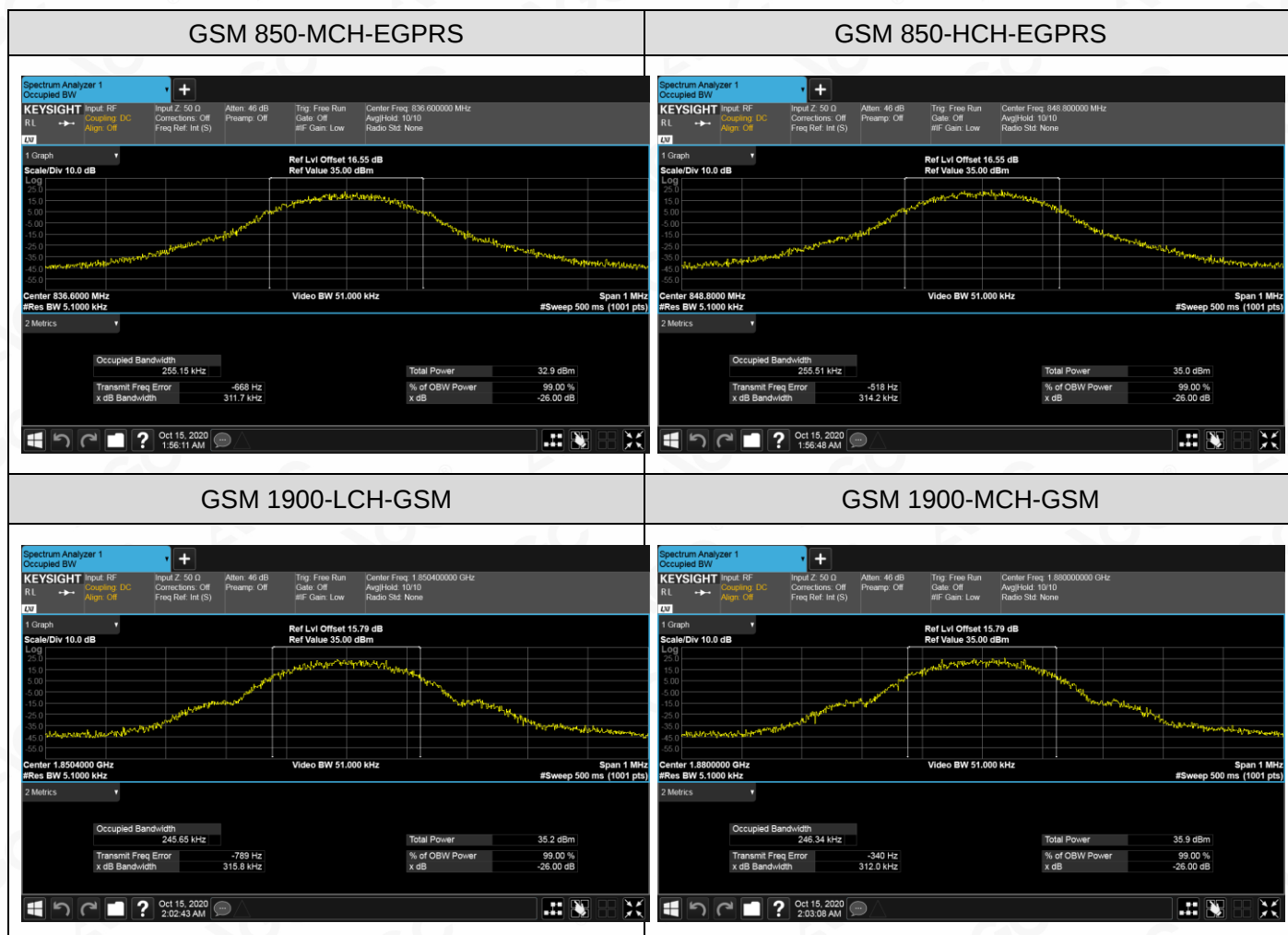
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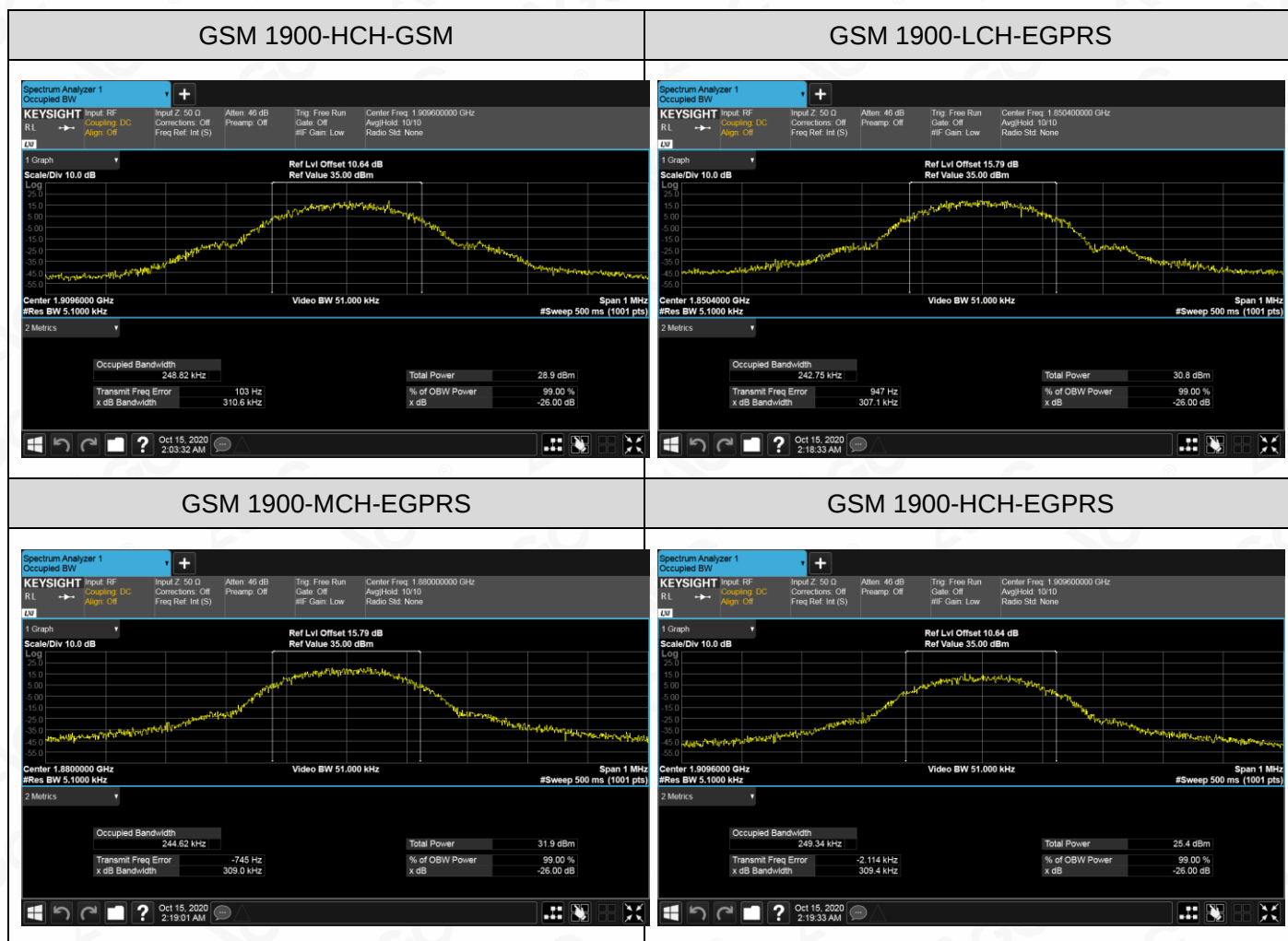




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Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA 850	UMTS	LCH	4147.6	4678	PASS
		MCH	4160.8	4674	PASS
		HCH	4151.5	4672	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA 1900	UMTS	LCH	4152.0	4701	PASS
		MCH	4151.0	4694	PASS
		HCH	4147.6	4708	PASS

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For WCDMA

Test Band=WCDMA850/WCDMA1900

Test Mode=UMTS



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8. BAND EDGE

8.1 MEASUREMENT METHOD

1. All out of band emissions are measured with an analyzer spectrum connected to the antenna terminal of the EUT while the EUT at its maximum duty cycle, at maximum power, and at the approximate frequencies. All data rates were investigated to determine the worst case configuration
2. The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.
3. Start and stop frequency were set such that the band edge would be placed in the center of the plot.
4. Span was set large enough so as to capture all out of band emissions near the band edge.
5. RBW>1% of the emission bandwidth, VBW $\geq 3 \times$ RBW, Detector=RMS, Number of points $\geq 2 \times$ Span/RBW, Trace mode=max hold, Sweep time=auto couple, and the trace was allowed to stabilize

8.2 PROVISIONS APPLICABLE

As Specified in FCC rules of 22.917(a) 、 24.238(a)and KDB 971168 D1 V03R01.

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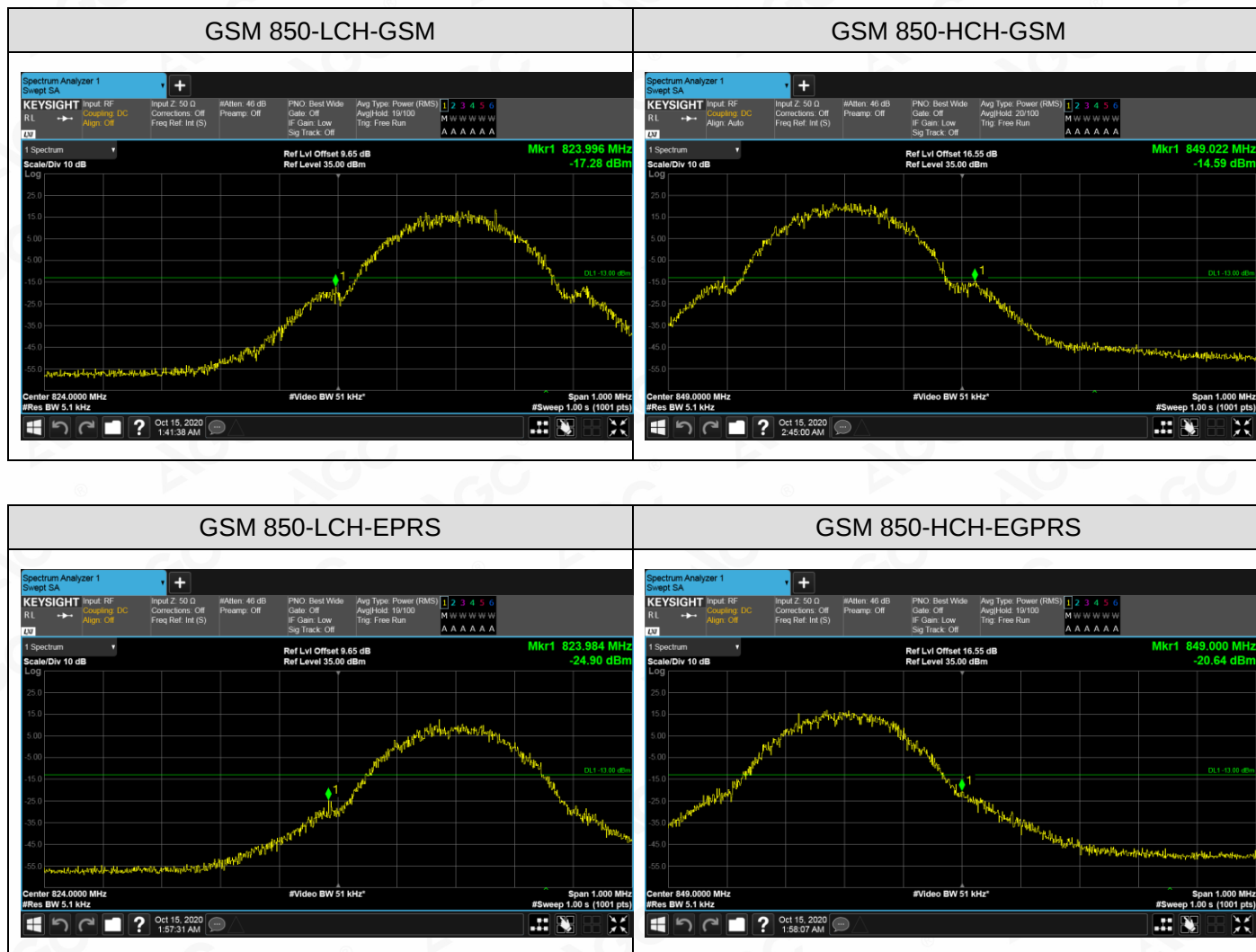
8.3 MEASUREMENT RESULT

Test Results

For GSM

Test Band=GSM 850/PCS 1900

Test Mode=GSM/EGPRS



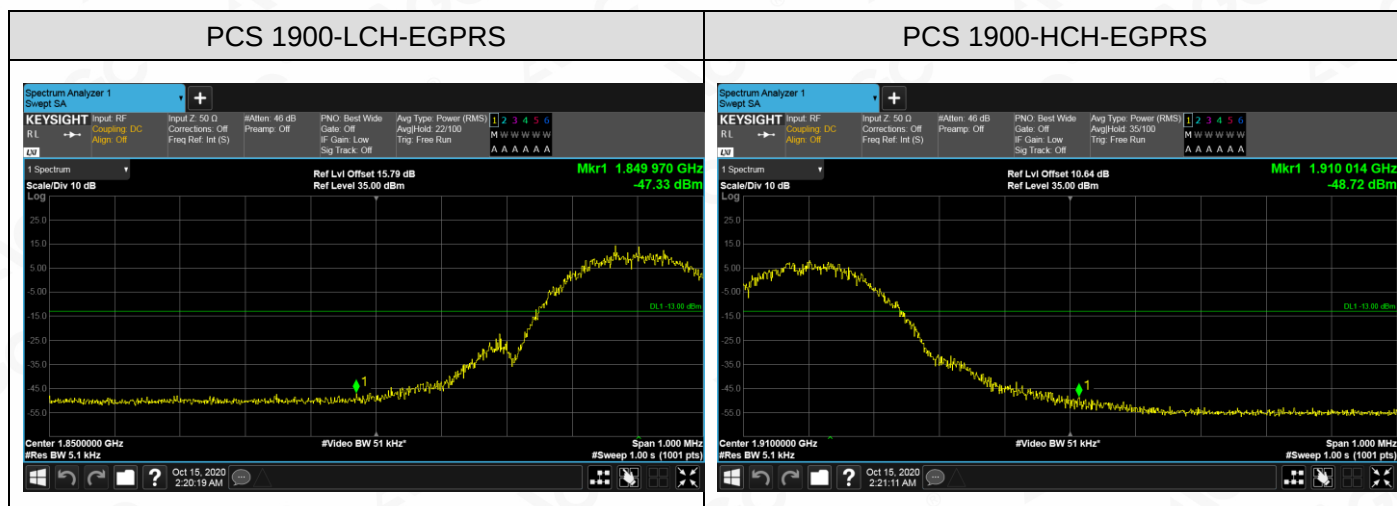
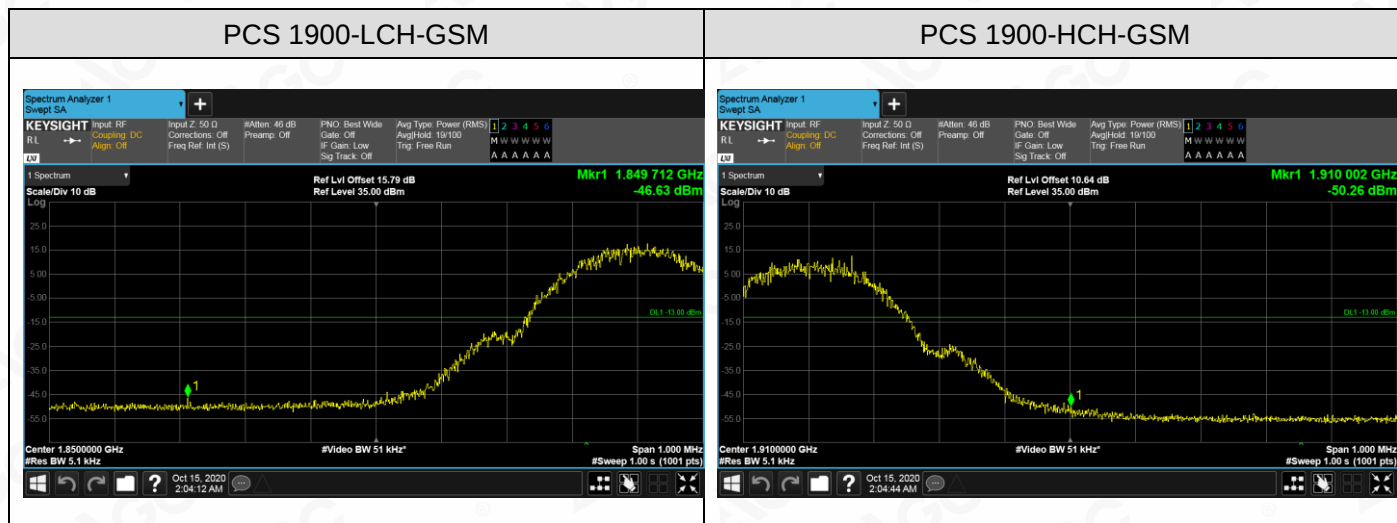
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