

FCC RADIO TEST REPORT FCC ID: HLZ-ACERONE8T2

Product: Tablet

Trade Mark: Acer

Model No.: Acer one 8 T2

Family Model: N/A

Report No.: S20072802602004

Issue Date: 24 Aug. 2020

Prepared for

Acer Incorporated

8F, 88, Sec. 1, Hsin Tai Wu Rd, Hsichih, Taipei Hsien, Taiwan

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	Acer Incorporated		
Address:	8F, 88, Sec. 1, Hsin Tai Wu Rd, Hsichih, Taipei Hsien, Taiwan		
Manufacturer's Name:	Acer Incorporated		
Address	8F, 88, Sec. 1, Hsin Tai Wu Rd, Hsichih,Taipei Hsien,Taiwan		
Product description			
Product name:	Tablet		
Model and/or type reference:	Acer one 8 T2		
Family Model:	N/A		

Measurement Procedure Used:

APPLICABLE STANDARDS				
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT			
47 CFR Part 2, Part 22H, Part 24E				
ANSI/TIA-603-E-2016	Complied			
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01	Complied			
ANSI C63.26:2015				

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

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	: <u> </u>	28 Jul. 2020 ~ 24 Aug. 2020
Testing Engineer	:	Hen lin
		(Allen Liu)
Technical Manager	:	Jasonches
-		(Jason Chen)
Authorized Cignotom		Alex
Authorized Signatory	·	(A) 1.3
		(Alex Li)

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2 SUMMARY OF TEST RESULTS

FCC Part22, Subpart H/ FCC Part24, Subpart E, KDB 971168 D01 Power Meas License Digital Systems v03r01					
FCC Rule	Test Item	Verdict	Remark		
2.1046	Conducted Output Power	PASS			
24.232(d) KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS			
2.1049 22.917(b) 24.238(b) KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS			
2.1051 22.917(a) 24.238(a) KDB 971168 D01 Clause 6	Band Edge	PASS			
22.913(a)(5) KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS			
24.232(c) KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS			
2.1053 22.917(a) 24.238(a) KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS			
2.1055 22.355 24.235 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS			
2.1051 22.917(a) 24.238(a) KDB 971168 D01 Clause 6	Conducted Emission	PASS			

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- 3. No modifications are made to the EUT during all test items.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.26 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

IC-Registration

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

The Certificate Registration Number is 9270A. CAB identifier: CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Tablet				
Acer				
HLZ-ACERONE8T2				
Acer one 8 T2				
N/A				
N/A				
☐ GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; ☐ PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz;				
⊠GMSK for GSM/GPRS;				
4, tested with power level 5(GSM 850) 1, tested with power level 0(GSM 1900)				
Only one SIM card				
FPCB Antenna				
GSM850:0.35 dBi, PCS1900:1.53 dBi,				
⊠Adapter supply: Model: EE-0501500UZ Input: 100-240V~50/60Hz Output: 5V,1500mA				
AL-MT8765-863M-V1.0-17				
Acer_one_8_T2_V2.0_08222020				

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. The High Voltage 4.3V and Low Voltage 3.2V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

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Revision History

Report No.	Version	Description	Issued Date
S20072802602004	Rev.01	Initial issue of report	24 Aug. 2020

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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 low channel, the middle channel and the high channel) were chosen for testing on all frequency band.

Note: GSM/GPRS 850, GSM/GPRS 1900, modes have been tested during the test. the worst condition (GSM850, GSM1900) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850.
- 2. 30 MHz to 10th harmonic for GSM1900.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

	Test Modes				
Band	For Conducted Test Cases	For Radiated Test Cases			
GSM 850	GSM Link	GSM Link			
GSM 1900	GSM Link	GSM Link			

Test Frequency and Channels:

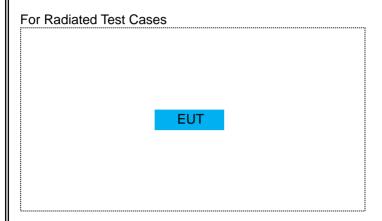
reet i requeriey and enaminoie.					
Frequency	☐ GSM 850		⊠GSM 1900		
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
CH_H	251	848.8	810	1909.8	
CH_M	189	836.4	661	1880.0	
CH_L	128	824.2	512	1850.2	

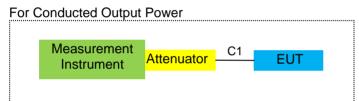
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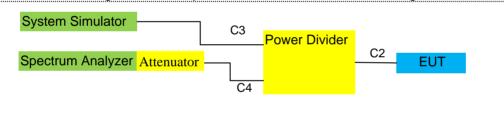
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

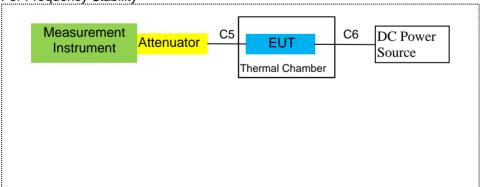




For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



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6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

.00.01					
Item	Equipment	Model/Type No.	Series No.	Note	

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	RF Cable	YES	NO	0.1m
C-3	RF Cable	YES	NO	0.1m
C-4	RF Cable	YES	NO	0.2m
C-5	RF Cable	YES	NO	0.2m
C-6	DC Cable	NO	NO	1.0m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2020.07.13	2021.07.12	1 year
2	Test Receiver	R&S	ESPI	101318	2020.05.11	2021.05.10	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	Horn Antenna	EM	EM-AH-10180	2011071402	2020.04.11	2021.04.10	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2019.12.10	2020.12.09	1 year
7	Amplifier	EM	EM-30180	060538	2020.07.13	2021.07.12	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2020.05.11	2021.05.10	1 year
9	Power Meter	R&S	NRVS	100696	2020.07.13	2021.07.12	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.05	2020.05.11	2021.05.10	1 year
11	Test Cable	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
12	Test Cable	N/A	R-02	N/A	2020.07.13	2021.07.12	3 year
13	Test Cable	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
14	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
15	LISN	R&S	ENV216	101313	2020.05.11	2021.05.10	1 year
16	LISN	EMCO	3816/2	00042990	2020.05.11	2021.05.10	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2020.05.11	2021.05.10	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2020.04.11	2021.04.10	3 year
19	Test Cable	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
20	Test Cable	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
21	Test Cable	N/A	C03	N/A	2020.05.11	2021.05.10	1 year
22	Attenuator	MCE	24-10-34	BN9258	2020.05.11	2021.05.10	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2020.05.11	2021.05.10	1 year
24	test receiver	R&S	ESCI	a0304218	2020.05.11	2021.05.10	1 year
25	Communication Tester	R&S	CMU200	A0304247	2020.07.13	2021.07.12	1 year
26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2020.05.11	2021.05.10	1 year
27	DC Power Source	N/A	PS-6005D	20170402923	2019.08.06	2022.08.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.

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7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

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.

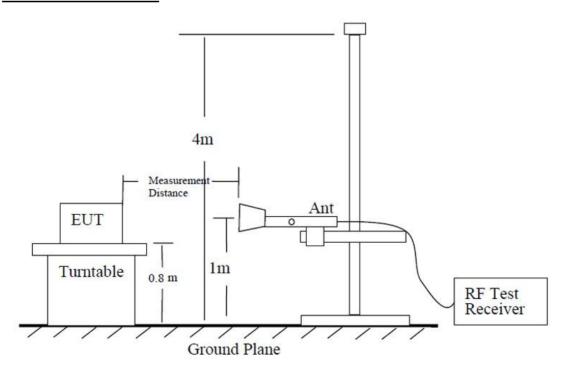
7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

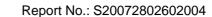
7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of GSM 850/ GSM 1900.

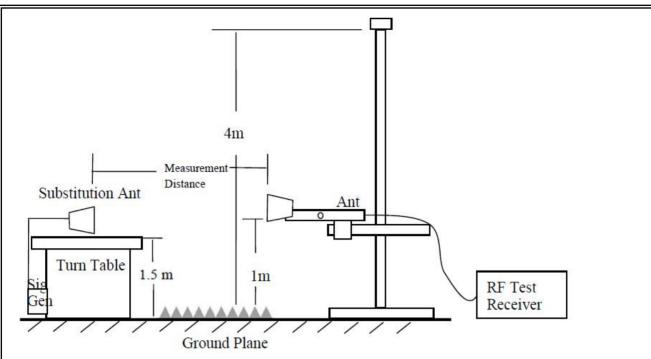
TEST CONFIGURATION



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7.1.5 Test Procedure

- 1. EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test.
 - The measurement results are obtained as described below:
 - Power(EIRP)= SG Level- Cable Loss+ Antenna Gain
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

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7.1.6 Test Results

EUT:	Tablet	Model No.:	Acer one 8 T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850 GSM/GPRS 900	Test By:	Allen Liu

Radiated Spurious Emission

			GSI	<i>l</i> 850					
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
	Test Results for Channel 128/824.2 MHz								
1648.4	-53.06	2.80	27.50	-28.36	-13	-15.36	Vertical		
1648.4	-53.64	2.80	27.50	-28.94	-13	-15.94	Horizontal		
2472.6	-45.17	2.91	27.80	-20.28	-13	-7.28	Vertical		
2472.6	-51.03	2.91	27.80	-26.14	-13	-13.14	Horizontal		
3296.8	-50.37	4.02	29.87	-24.52	-13	-11.52	Vertical		
3296.8	-45.3	4.02	29.87	-19.45	-13	-6.45	Horizontal		
131.2	-51.58	1.35	17.77	-35.16	-13	-22.16	Vertical		
116.8	-47.62	1.77	17.83	-31.56	-13	-18.56	Horizontal		
		Test Re	sults for Cha	annel 189/83	6.4 MHz				
1673.2	-48.23	2.80	27.48	-23.55	-13	-10.55	Vertical		
1673.2	-45.31	2.80	27.48	-20.63	-13	-7.63	Horizontal		
2509.8	-45.65	2.91	27.70	-20.86	-13	-7.86	Vertical		
2509.8	-46.43	2.91	27.70	-21.64	-13	-8.64	Horizontal		
3346.4	-45.6	4.02	29.82	-19.80	-13	-6.80	Vertical		
3346.4	-51.56	4.02	29.82	-25.76	-13	-12.76	Horizontal		
208.8	-49.23	1.44	15.26	-35.42	-13	-22.42	Vertical		
131.6	-45.51	1.51	17.23	-29.79	-13	-16.79	Horizontal		
		Test Re	sults for Cha	annel 251/84	8.8 MHz				
1697.6	-53.72	2.80	27.42	-29.10	-13	-16.10	Vertical		
1697.6	-45.13	2.80	27.42	-20.51	-13	-7.51	Horizontal		
2546.4	-45.61	2.91	27.68	-20.84	-13	-7.84	Vertical		
2546.4	-45.83	2.91	27.68	-21.06	-13	-8.06	Horizontal		
3395.2	-53.29	4.02	29.80	-27.51	-13	-14.51	Vertical		
3395.2	-53.21	4.02	29.80	-27.43	-13	-14.43	Horizontal		
95.0	-47.59	1.74	16.46	-32.87	-13	-19.87	Vertical		
208.3	-47.46	1.68	16.21	-32.93	-13	-19.93	Horizontal		

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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			GPR	S 850			
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Re	sults for Cha	annel 128/82	4.2 MHz		
1648.4	-49.56	2.80	27.50	-24.86	-13	-11.86	Vertical
1648.4	-47.15	2.80	27.50	-22.45	-13	-9.45	Horizontal
2472.6	-53.45	2.91	27.80	-28.56	-13	-15.56	Vertical
2472.6	-45.67	2.91	27.80	-20.78	-13	-7.78	Horizontal
3296.8	-50.97	4.02	29.87	-25.12	-13	-12.12	Vertical
3296.8	-49.37	4.02	29.87	-23.52	-13	-10.52	Horizontal
154.8	-45.72	1.35	16.91	-30.16	-13	-17.16	Vertical
238.4	-49.53	1.59	17.39	-33.72	-13	-20.72	Horizontal
		Test Re	sults for Cha	annel 189/83	6.4 MHz		
1673.2	-48.04	2.80	27.48	-23.36	-13	-10.36	Vertical
1673.2	-45.68	2.80	27.48	-21.00	-13	-8.00	Horizontal
2509.8	-44.16	2.91	27.70	-19.37	-13	-6.37	Vertical
2509.8	-53.6	2.91	27.70	-28.81	-13	-15.81	Horizontal
3346.4	-46.45	4.02	29.82	-20.65	-13	-7.65	Vertical
3346.4	-45.63	4.02	29.82	-19.83	-13	-6.83	Horizontal
110.1	-48.32	1.36	17.36	-32.32	-13	-19.32	Vertical
148.2	-53.88	1.32	15.19	-40.02	-13	-27.02	Horizontal
		Test Re	sults for Cha	annel 251/84	8.8 MHz		
1697.6	-51.24	2.80	27.42	-26.62	-13	-13.62	Vertical
1697.6	-53.65	2.80	27.42	-29.03	-13	-16.03	Horizontal
2546.4	-53.99	2.91	27.68	-29.22	-13	-16.22	Vertical
2546.4	-52.23	2.91	27.68	-27.46	-13	-14.46	Horizontal
3395.2	-44.82	4.02	29.80	-19.04	-13	-6.04	Vertical
3395.2	-44.71	4.02	29.80	-18.93	-13	-5.93	Horizontal
198.1	-44.03	1.46	17.68	-27.81	-13	-14.81	Vertical
220.2	-47.54	1.31	15.79	-33.06	-13	-20.06	Horizontal

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)

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			GSI	<i>[</i>] 1900					
						1			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
	Test Results for Channel 512/1850.2MHz								
3700.4	-44.25	4.04	33.51	-14.78	-13	-1.78	Vertical		
3700.4	-48.11	4.04	33.51	-18.64	-13	-5.64	Horizontal		
5550.6	-46.21	5.24	35.84	-15.61	-13	-2.61	Vertical		
5550.6	-53.39	5.24	35.84	-22.79	-13	-9.79	Horizontal		
105.3	-46.3	1.40	15.14	-32.56	-13	-19.56	Vertical		
247.6	-52.4	1.45	17.54	-36.31	-13	-23.31	Horizontal		
		Test Re	sults for Cha	annel 661/18	80.0MHz				
3760	-48.26	4.04	33.56	-18.74	-13	-5.74	Vertical		
3760	-45.27	4.04	33.56	-15.75	-13	-2.75	Horizontal		
5640	-53.96	5.24	35.91	-23.29	-13	-10.29	Vertical		
5640	-50.25	5.24	35.91	-19.58	-13	-6.58	Horizontal		
187.9	-46.91	1.74	16.40	-32.25	-13	-19.25	Vertical		
86.7	-51.63	1.42	15.72	-37.32	-13	-24.32	Horizontal		
		Test Re	sults for Cha	annel 810/19	09.8MHz				
3819.6	-52.57	4.04	34.00	-22.61	-13	-9.61	Vertical		
3819.6	-50.27	4.04	34.00	-20.31	-13	-7.31	Horizontal		
5729.4	-51.4	5.24	36.04	-20.60	-13	-7.60	Vertical		
5729.4	-46.07	5.24	36.04	-15.27	-13	-2.27	Horizontal		
217.3	-47.7	1.67	17.51	-31.86	-13	-18.86	Vertical		
112.7	-50.47	1.58	17.73	-34.32	-13	-21.32	Horizontal		

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)

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			GPR:	S 1900					
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	·		
	Test Results for Channel 512/1850.2MHz								
3700.4	-49.77	4.04	33.51	-20.30	-13	-7.30	Vertical		
3700.4	-46.79	4.04	33.51	-17.32	-13	-4.32	Horizontal		
5550.6	-51.14	5.24	35.84	-20.54	-13	-7.54	Vertical		
5550.6	-53.79	5.24	35.84	-23.19	-13	-10.19	Horizontal		
249.9	-45.31	1.66	17.06	-29.92	-13	-16.92	Vertical		
237.9	-45.75	1.34	15.54	-31.55	-13	-18.55	Horizontal		
		Test Res	sults for Cha	nnel 661/188	80.0MHz				
3760	-47.85	4.04	33.56	-18.33	-13	-5.33	Vertical		
3760	-46.66	4.04	33.56	-17.14	-13	-4.14	Horizontal		
5640	-50.49	5.24	35.91	-19.82	-13	-6.82	Vertical		
5640	-53.5	5.24	35.91	-22.83	-13	-9.83	Horizontal		
168.5	-44.09	1.33	16.18	-29.24	-13	-16.24	Vertical		
249.4	-44.89	1.60	17.99	-28.50	-13	-15.50	Horizontal		
		Test Res	sults for Cha	nnel 810/190	09.8MHz				
3819.6	-48.93	4.04	34.00	-18.97	-13	-5.97	Vertical		
3819.6	-45.28	4.04	34.00	-15.32	-13	-2.32	Horizontal		
5729.4	-49.82	5.24	36.04	-19.02	-13	-6.02	Vertical		
5729.4	-49.96	5.24	36.04	-19.16	-13	-6.16	Horizontal		
206.6	-53.88	1.65	17.27	-38.27	-13	-25.27	Vertical		
227.8	-47.4	1.39	15.49	-33.31	-13	-20.31	Horizontal		

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03r01 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2.2 Conformance Limit

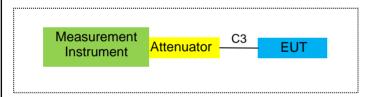
The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements



7.2.5 Test Procedure

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

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

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = SGLevel -Pcl +Ga

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as SGLevel, typically dBW or dBm);

SGLevel = Signal generator output power or PSD, in dBm or dBW;

Ga = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

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

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

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

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

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

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

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

53c the following spectrum analyzer settings.						
	GSM/GPRS					
Span	500KHz					
RBW	10KHz					
VBW	30KHz					
Detector	RMS					
Trace	Average					
Average Type	Power					
Sweep Count	100					

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7.2.6 Test Results

EUT:	Tablet	Model No.:	Acer one 8 T2
Temperature:	20 ℃	Relative Humidity:	48%
I LEST IVIDAE.	GSM/GPRS 850 GSM/GPRS 1900	Test By:	Allen Liu

■ Effective Radiated Power

	Radiated Power (ERP) for GSM850								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	13.71	2.11	23.84	2.15	33.29	2.133045		
836.4	Н	14.57	2.13	23.15	2.15	33.44	2.208005		
848.8	Н	14.69	2.13	23.06	2.15	33.47	2.223310		
824.2	V	14.46	2.11	23.11	2.15	33.31	2.142891		
836.4	V	14.36	2.13	23.07	2.15	33.15	2.065380		
848.8	V	14.18	2.13	23.25	2.15	33.15	2.065380		

	Radiated Power (ERP) for GPRS850									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	13.97	2.11	23.84	2.15	33.55	2.264644			
836.4	Н	14.56	2.13	23.15	2.15	33.43	2.202926			
848.8	Н	14.69	2.13	23.06	2.15	33.47	2.223310			
824.2	V	14.32	2.11	23.11	2.15	33.17	2.074914			
836.4	V	14.78	2.13	23.07	2.15	33.57	2.275097			
848.8	V	14.38	2.13	23.25	2.15	33.35	2.162719			

Note:

SG Level= Signal generator output

Pcl= cable loss Ga= Antenna Gain

Peak EIRP(dBm)= SGLevel -Pcl +Ga

ERP(dBm)=EIRP-2.15

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■ Effective Radiated Power

	Radiated Power (E.I.R.P) for GSM1900									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP				
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)				
1850.2	Н	5.74	3.76	28.24	30.22	1.051962				
1880	Н	6.09	3.91	28.22	30.40	1.096478				
1909.8	Н	6.29	3.93	28.20	30.56	1.137627				
1850.2	V	7.53	3.76	27.32	31.09	1.285287				
1880	V	7.77	3.91	27.33	31.19	1.315225				
1909.8	V	7.78	3.93	27.31	31.16	1.306171				

	Radiated Power (E.I.R.P) for GPRS1900					
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1850.2	Н	5.72	3.76	28.24	30.20	1.047129
1880	Н	6.03	3.91	28.22	30.34	1.081434
1909.8	Н	6.20	3.93	28.20	30.47	1.114295
1850.2	V	7.01	3.76	27.32	30.57	1.140250
1880	V	6.92	3.91	27.33	30.34	1.081434
1909.8	V	7.31	3.93	27.31	30.69	1.172195

Note:

SG Level= Signal generator output Pcl= cable loss

Pcl= cable loss
Ga= Antenna Gain

Peak EIRP(dBm)= SGLevel -Pcl+Ga.

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7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2) and FCC Part 24.232(c) and FCC KDB 971168 D01 v03r01 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency,

The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW ≥ 3 × RBW.

Number of points in sweep \geq 2 × span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 $\log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 $\log (1/0.25) = 6$ dB if the duty cycle is a constant 25%

Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Measure and record the results in the test report.

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7.3.6 Test Results

EUT:	Tablet	Model No.:	Acer one 8 T2
Temperature:	20 ℃	Relative Humidity:	48%
I LEST IVIDAE.	GSM/GPRS 850 GSM/GPRS 1900	Test By:	Allen Liu

Test data reference attachment

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7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC Part 24.235 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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7.4.6 Test Results

EUT:	Tablet	Model No.:	Acer one 8 T2
Temperature:	20 ℃	Relative Humidity:	48%
LLEST MODE.	GSM/GPRS 850 GSM/GPRS 1900	Test By:	Allen Liu
Results: PASS		•	

Frequency Error Against Voltage for GSM 850 band (Mid CH)				
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
3.2 7.68		0.009182		
3.7 9.01		0.010772		
4.3	9.38	0.011215		

Frequency Error Against Temperature for GSM 850 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	9.02	0.010784	
-20	9.43	0.011275	
-10	9.7	0.011597	
0	6.11	0.007305	
10	6.08	0.007269	
20	8.58	0.010258	
30	7.39	0.008835	
40	8.78	0.010497	
50	10.78	0.012889	

Frequency Error Against Voltage for GPRS850 band (Mid CH)				
Voltage (V)	Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.2	7.54	0.009015		
3.7 7.91		0.009457		
4.3	7.42	0.008871		

Frequency Error Against Temperature for GPRS850 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz) Frequency Error (ppm)		
-30	8.44	0.010091	
-20	6.37	0.007616	
-10	8.01	0.009577	
0	6.74	0.008058	
10	8.4	0.010043	
20	8.63	0.010318	
30	8.19	0.009792	
40	6.76	0.008082	
50	9.89	0.011824	

I.

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Frequ	Frequency Error Against Voltage for PCS 1900 band (Mid CH)			
Voltage (V)	Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.2	17.51	0.009314		
3.7	19.69	0.010473		
4.3	18.34	0.009755		

Frequen	Frequency Error Against Temperature for PCS 1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	21.64	0.011511		
-20	16.63	0.008846		
-10	16.69	0.008878		
0	19.53	0.010388		
10	17.69	0.009410		
20	16.66	0.008862		
30	17.79	0.009463		
40	20.79	0.011059		
50	20.25	0.010771		

Frequency Error Against Voltage for GPRS1900 band (Mid CH)			
Voltage (V)	/oltage (V) Frequency Error (Hz) Frequency Error (ppm)		
3.2	16.23	0.008633	
3.7 21		0.011170	
4.3	17.93	0.009537	

Frequency Error Against Temperature for GPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	17.43	0.009271	
-20	16.66	0.008862	
-10	20.46	0.010883	
0	19.89	0.010580	
10	19.61	0.010431	
20	20.65	0.010984	
30	18.93	0.010069	
40	17.4	0.009255	
50	19.25	0.010239	

Note:

- Normal Voltage = 3.7V; Battery End Point (BEP) = 3.2V; Maximum Voltage =4.3V
 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to FCC 22.913 and FCC 24.232(d) and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function:
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
- 1) for continuous transmissions, set to 1 ms,
- 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

7.5.6 Test Results

EUT:	Tablet	Model No.:	Acer one 8 T2
Temperature:	20 ℃	Relative Humidity:	48%
Lest Mode:	GSM/GPRS 850 GSM/GPRS 1900	Test By:	Allen Liu
Results: PASS		•	

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Test data reference attachment

7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.6.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC Part 24E and FCC KDB 971168 D01 Section 4.0

7.6.2 Conformance Limit

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 971168 v03r01 Section 4.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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7.6.6 Test Results

EUT:	Tablet	Model No.:	Acer one 8 T2	
Temperature:	20 ℃	Relative Humidity:	48%	
Lest Mode.	GSM/GPRS 850 GSM/GPRS 1900	Test By:	Allen Liu	
Results: PASS				

Test data reference attachment

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7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and 24.238(a) and FCC KDB 971168 D01 Section6.0

7.7.2 Conformance Limit

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.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03r01 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

7.7.6 Test Results

EUT:	Tablet	Model No.:	Acer one 8 T2
Temperature:	20 ℃	Relative Humidity:	48%
LL AST MONDE.	GSM/GPRS 850 GSM/GPRS 1900	Test By:	Allen Liu
Results: PASS			

Test data reference attachment

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7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 Section6.0

7.8.2 Conformance Limit

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.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03r01 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
- = -13dBm.

7.8.6 Test Results

EUT:	Tablet	Model No.:	Acer one 8 T2
Temperature:	20 ℃	Relative Humidity:	48%
Lest Mode.	GSM/GPRS 850 GSM/GPRS 1900	Test By:	Allen Liu
Results: PASS	•	•	

Test data reference attachment

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8 TEST RESULTS

8.1 **CONDUCTED OUTPUT POWER**

Band	Channel	Frequency (MHz)	Power (dBm)	Verdict
GSM850	128	824.2	31.13	PASS
GSM850	189	836.4	31.89	PASS
GSM850	251	848.8	31.61	PASS
GSM1900	512	1850.2	27.00	PASS
GSM1900	661	1880	28.03	PASS
GSM1900	810	1909.8	28.72	PASS
GPRS850 1 Slot	128	824.2	31.78	PASS
GPRS850 1 Slot	189	836.4	31.93	PASS
GPRS850 1 Slot	251	848.8	31.68	PASS
GPRS850 2 Slot	128	824.2	30.92	PASS
GPRS850 2 Slot	189	836.4	31.10	PASS
GPRS850 2 Slot	251	848.8	30.79	PASS
GPRS850 3 Slot	128	824.2	28.99	PASS
GPRS850 3 Slot	189	836.4	29.16	PASS
GPRS850 3 Slot	251	848.8	28.91	PASS
GPRS850 4 Slot	128	824.2	27.80	PASS
GPRS850 4 Slot	189	836.4	27.99	PASS
GPRS850 4 Slot	251	848.8	27.72	PASS
GPRS1900 1 Slot	512	1850.2	27.07	PASS
GPRS1900 1 Slot	661	1880	28.10	PASS
GPRS1900 1 Slot	810	1909.8	28.78	PASS
GPRS1900 2 Slot	512	1850.2	27.17	PASS
GPRS1900 2 Slot	661	1880	27.28	PASS
GPRS1900 2 Slot	810	1909.8	27.07	PASS
GPRS1900 3 Slot	512	1850.2	24.17	PASS
GPRS1900 3 Slot	661	1880	25.42	PASS
GPRS1900 3 Slot	810	1909.8	25.33	PASS
GPRS1900 4 Slot	512	1850.2	23.15	PASS
GPRS1900 4 Slot	661	1880	24.21	PASS
GPRS1900 4 Slot	810	1909.8	24.16	PASS

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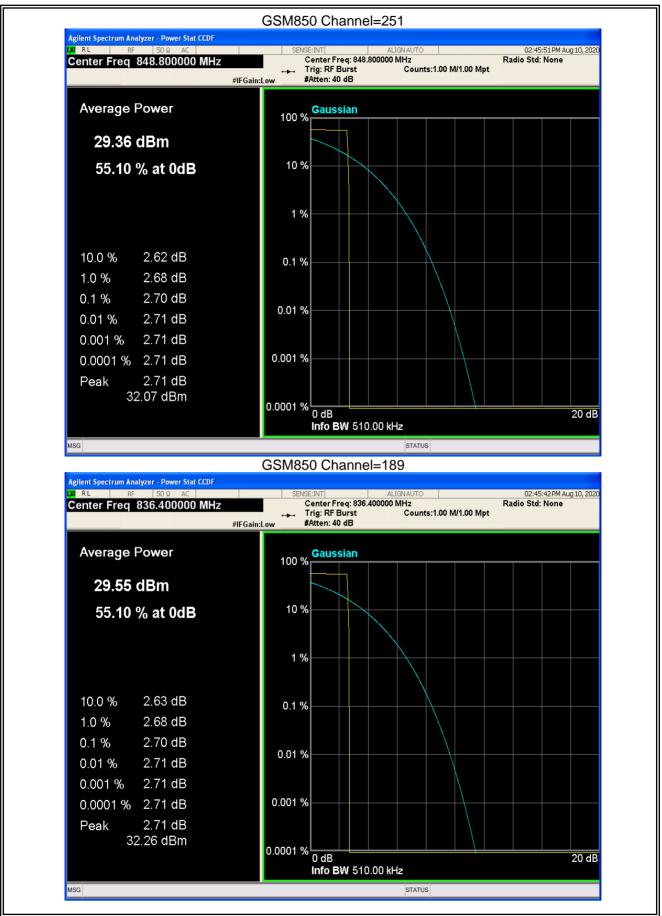
8.2 PEAK-TO-AVERAGE RATIO

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.69	13	PASS
GSM850	189	836.4	2.70	13	PASS
GSM850	251	848.8	2.70	13	PASS
GSM1900	512	1850.2	2.75	13	PASS
GSM1900	661	1880	2.74	13	PASS
GSM1900	810	1909.8	2.73	13	PASS
GPRS850	128	824.2	2.70	13.00	PASS
GPRS850	189	836.4	2.71	13.00	PASS
GPRS850	251	848.8	2.70	13.00	PASS
GPRS1900	512	1850.2	2.76	13.00	PASS
GPRS1900	661	1880	2.75	13.00	PASS
GPRS1900	810	1909.8	2.73	13.00	PASS

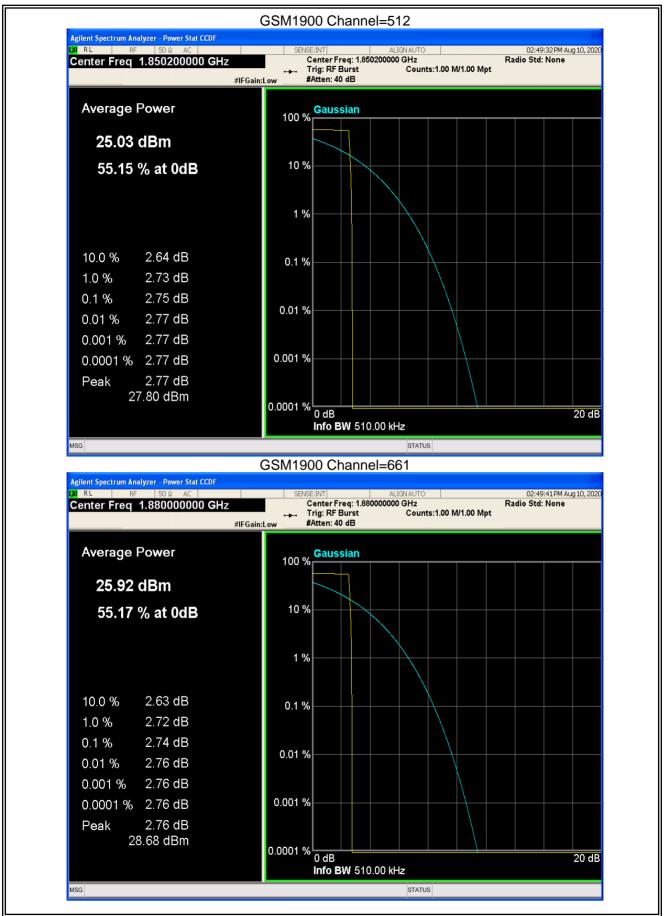
GSM850 Channel=128



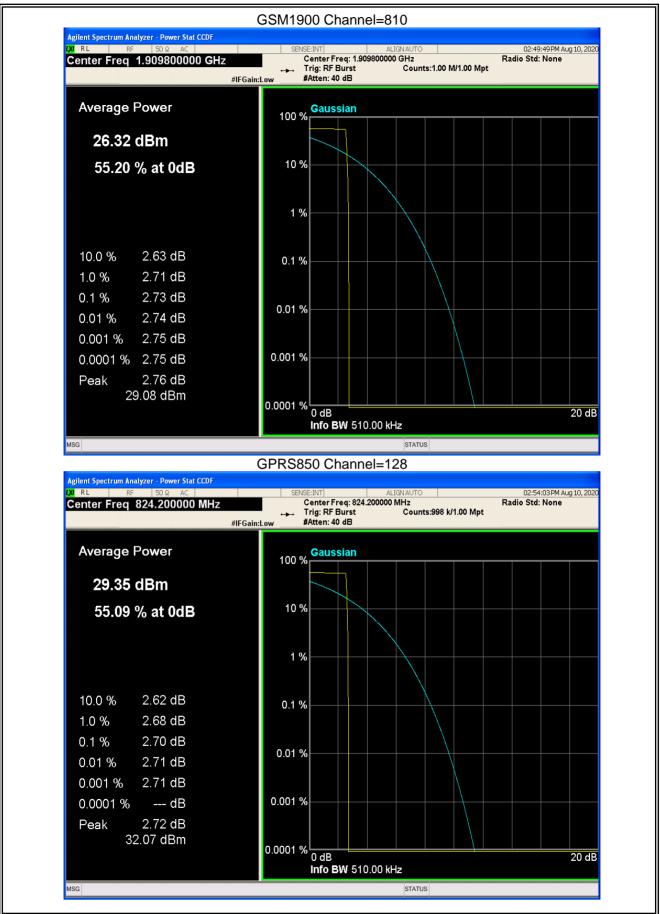
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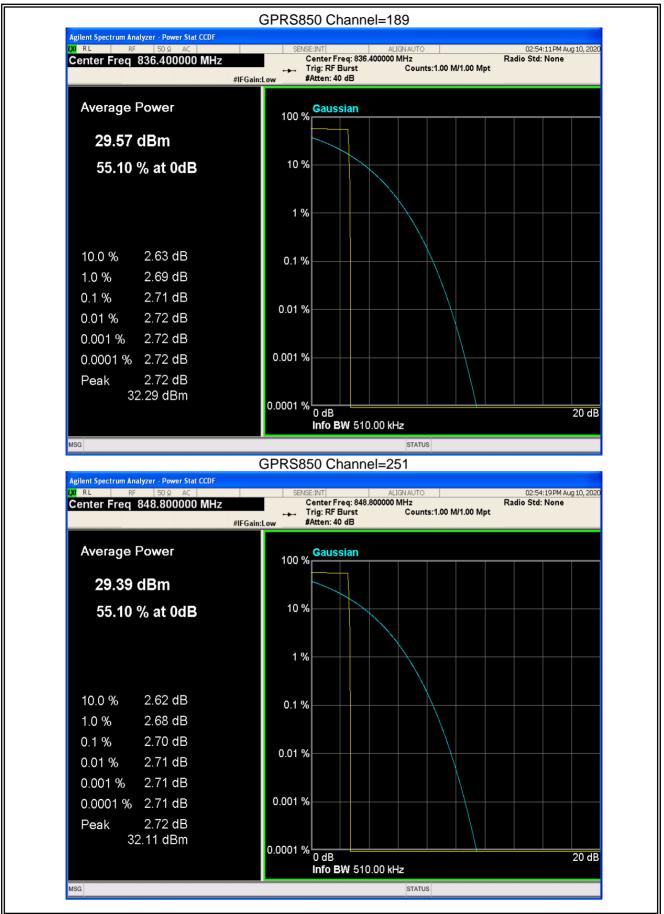
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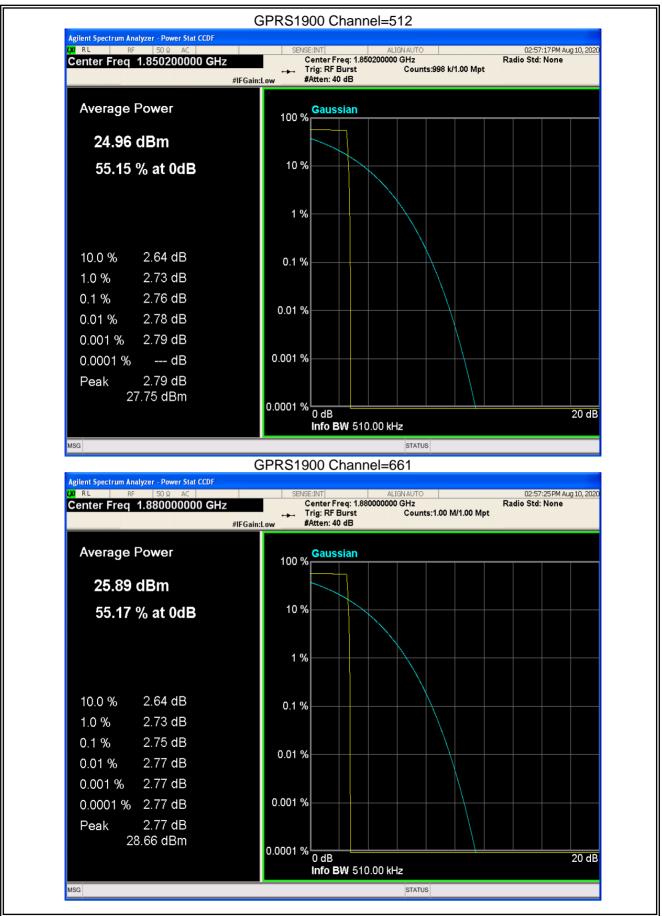
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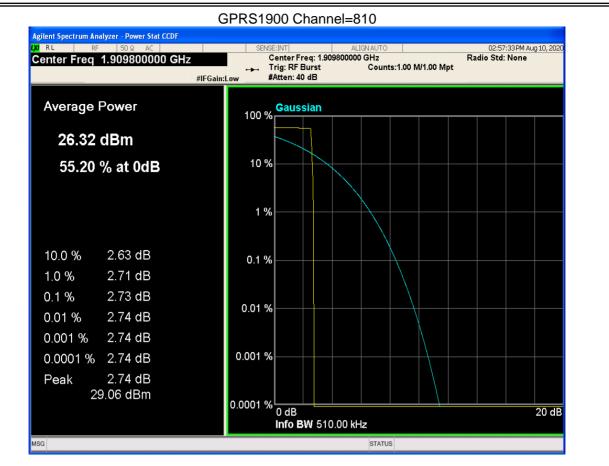


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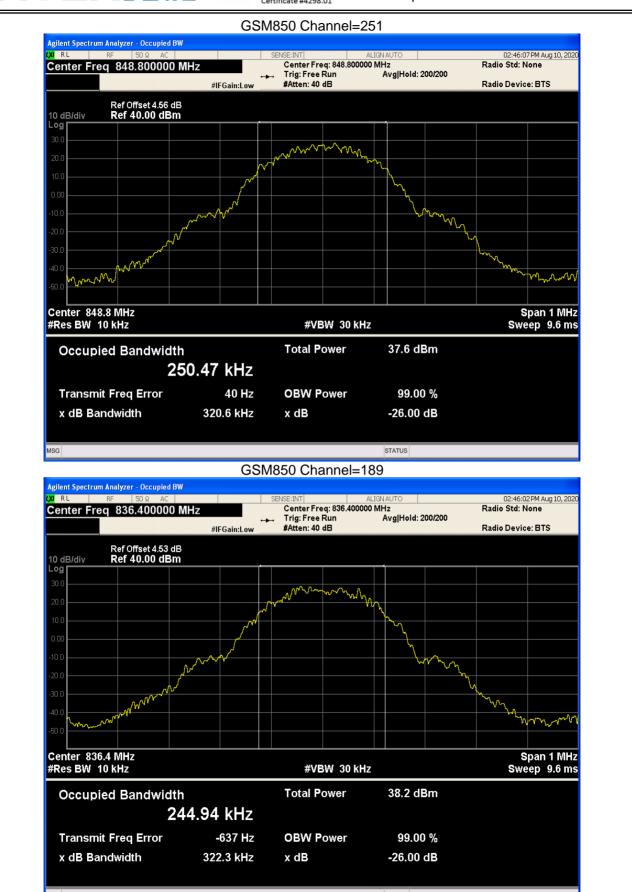
8.3 OCCUPIED BANDWIDTH

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	249.640	316.669	PASS
GSM850	189	836.4	244.944	322.329	PASS
GSM850	251	848.8	250.467	320.643	PASS
GSM1900	512	1850.2	244.687	315.084	PASS
GSM1900	661	1880	246.140	315.884	PASS
GSM1900	810	1909.8	247.664	323.801	PASS
GPRS850	128	824.2	239.605	314.553	PASS
GPRS850	189	836.4	245.672	304.641	PASS
GPRS850	251	848.8	249.482	313.761	PASS
GPRS1900	512	1850.2	245.499	317.101	PASS
GPRS1900	661	1880	246.276	313.016	PASS
GPRS1900	810	1909.8	244.492	311.616	PASS

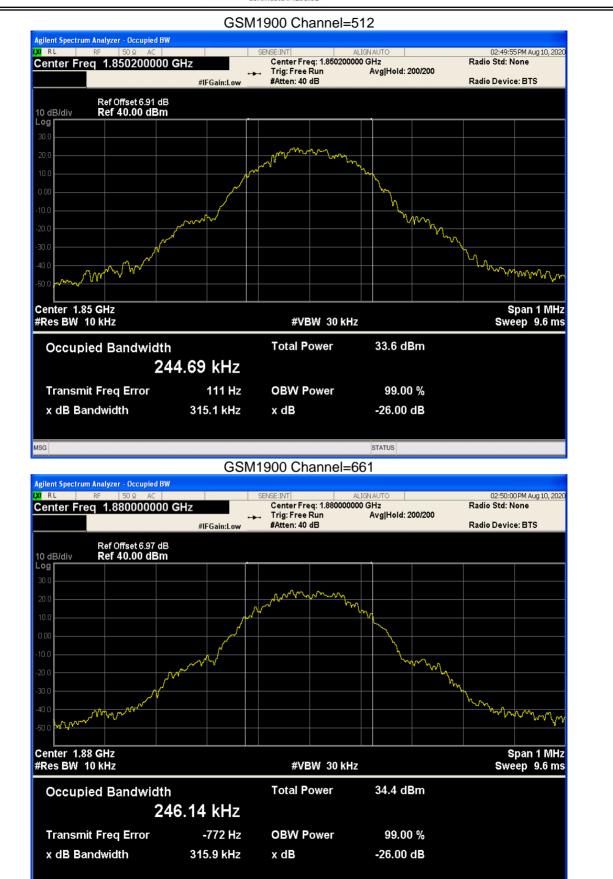
GSM850 Channel=128



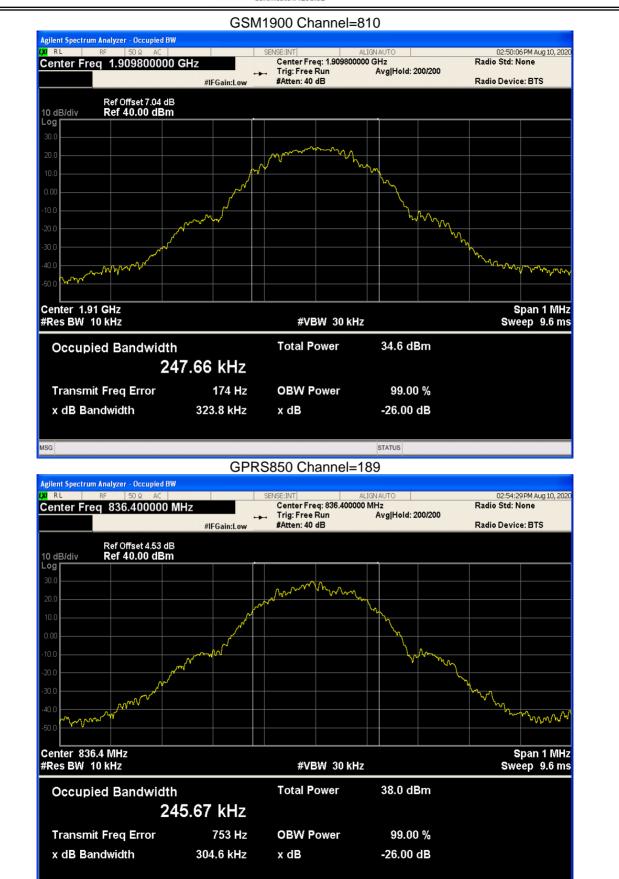
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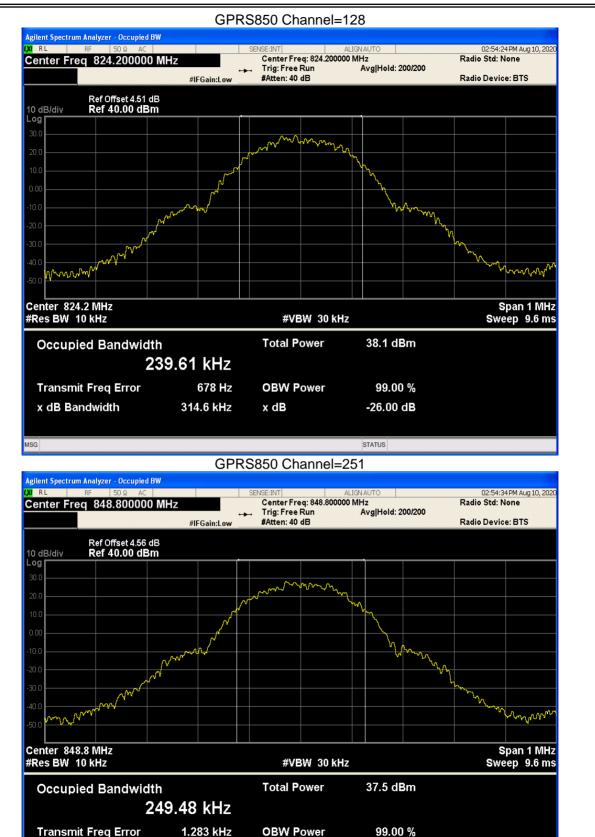
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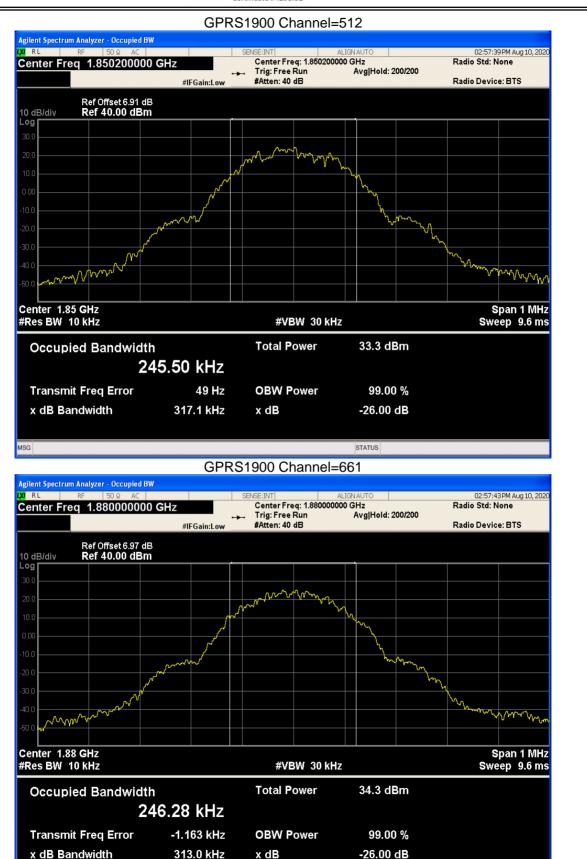
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x dB

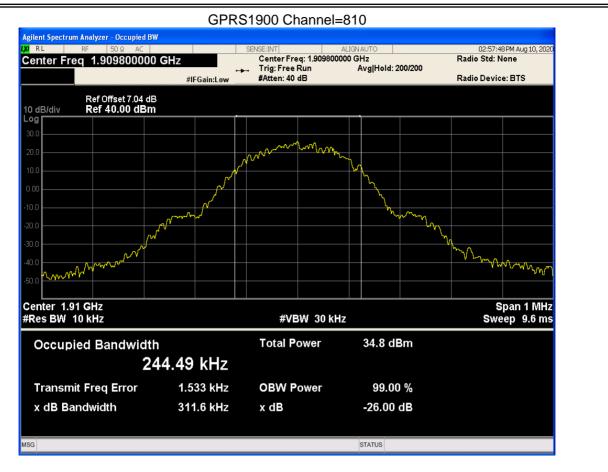
-26.00 dB

313.8 kHz

x dB Bandwidth



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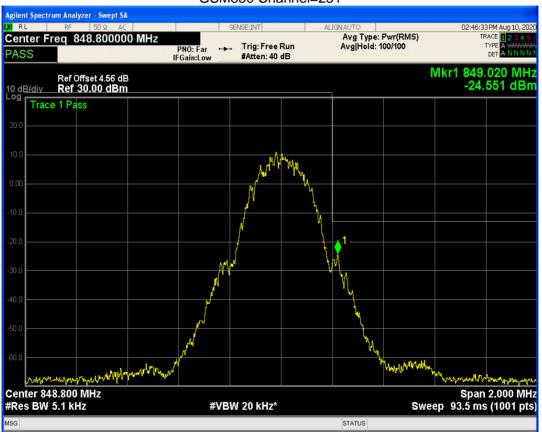
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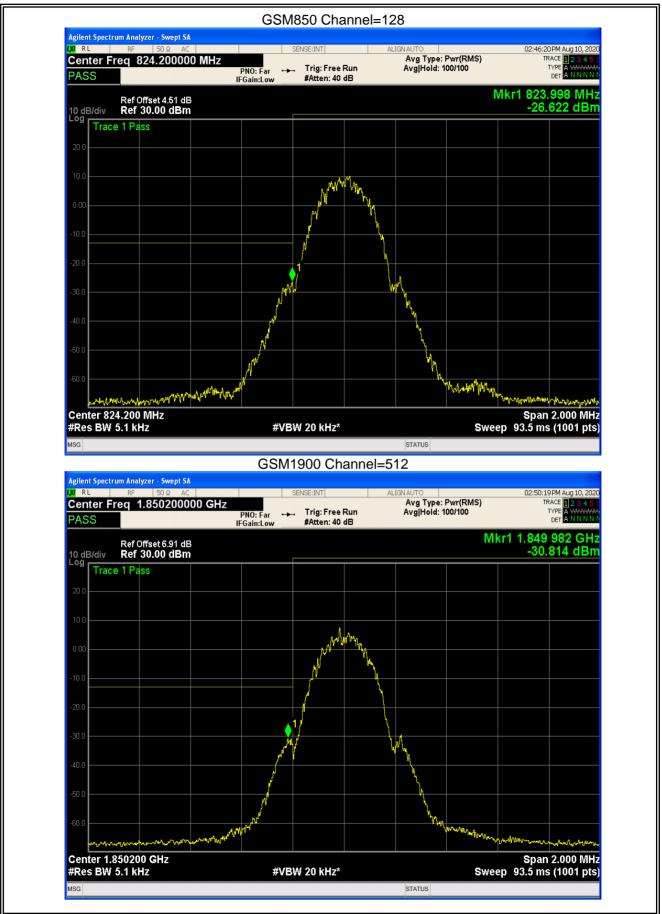
8.4 BAND EDGE

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-26.62	-13	PASS
GSM850	251	848.8	849.02	-24.55	-13	PASS
GSM1900	512	1850.2	1849.98	-30.81	-13	PASS
GSM1900	810	1909.8	1910.03	-29.65	-13	PASS
GPRS850	128	824.2	823.98	-26.40	-13	PASS
GPRS850	251	848.8	849.03	-26.14	-13	PASS
GPRS1900	512	1850.2	1849.99	-31.41	-13	PASS
GPRS1900	810	1909.8	1910.02	-28.29	-13	PASS

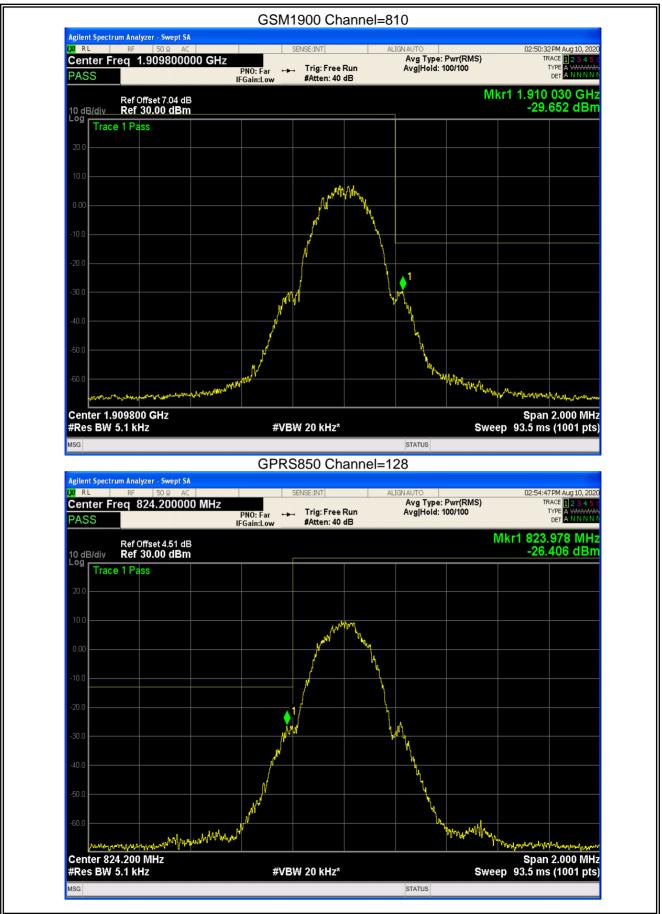
GSM850 Channel=251



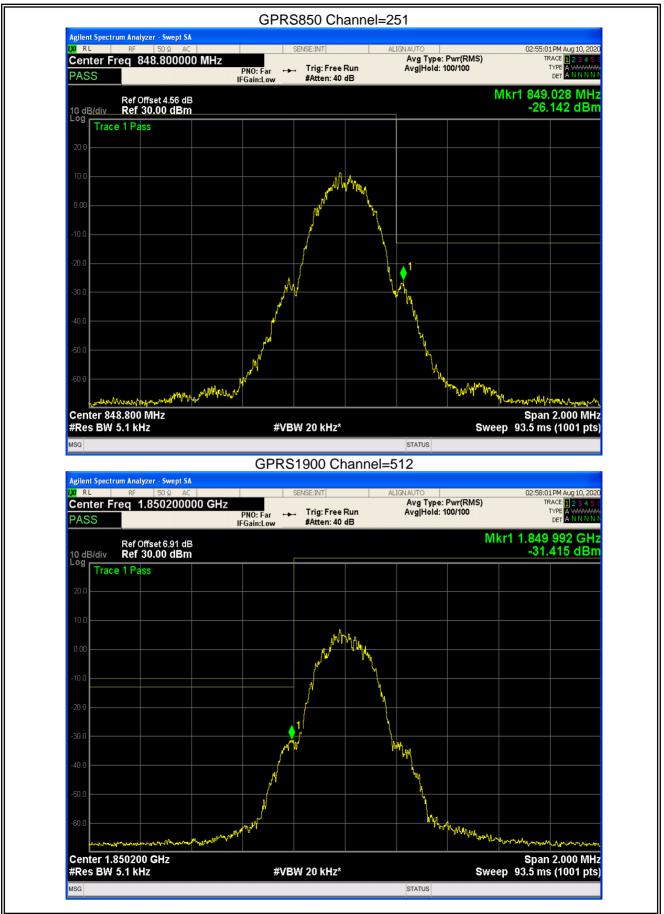
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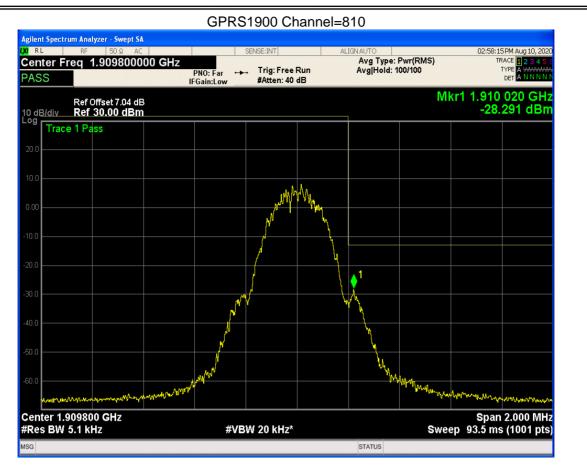


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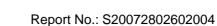


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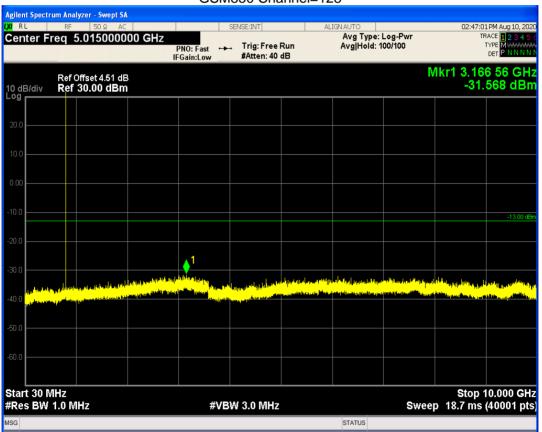




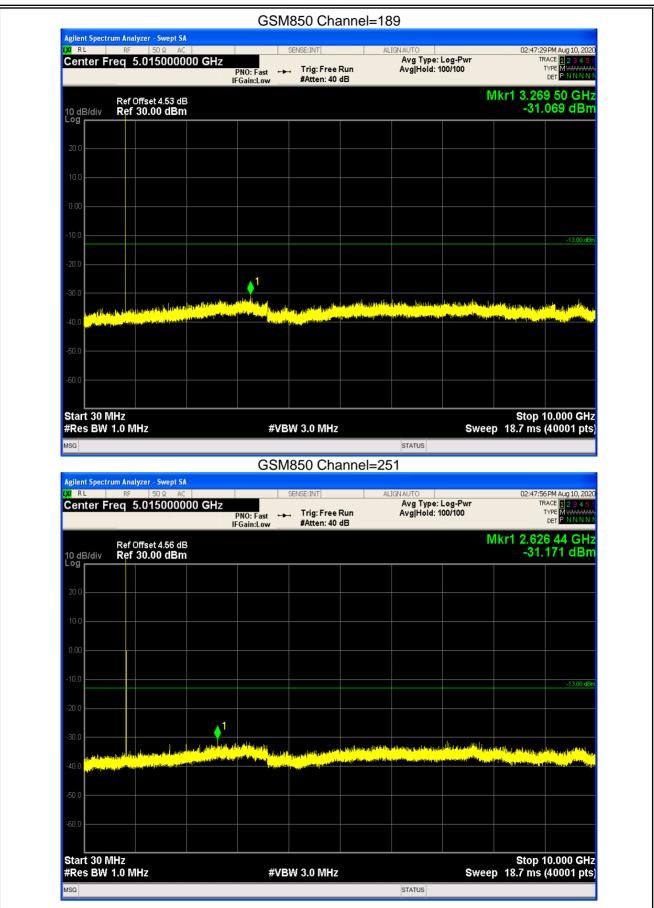
8.5 OUT-OF-BAND EMISSIONS

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	3166.56	-31.56	-13	PASS
GSM850	189	836.4	3269.50	-31.06	-13	PASS
GSM850	251	848.8	2626.44	-31.17	-13	PASS
GSM1900	512	1850.2	19852.72	-24.50	-13	PASS
GSM1900	661	1880	19869.70	-23.91	-13	PASS
GSM1900	810	1909.8	19898.65	-24.76	-13	PASS
GPRS850	128	824.2	2995.58	-32.01	-13	PASS
GPRS850	189	836.4	3012.53	-31.58	-13	PASS
GPRS850	251	848.8	3232.11	-30.94	-13	PASS
GPRS1900	512	1850.2	19890.66	-24.37	-13	PASS
GPRS1900	661	1880	19806.29	-24.49	-13	PASS
GPRS1900	810	1909.8	19916.63	-24.50	-13	PASS

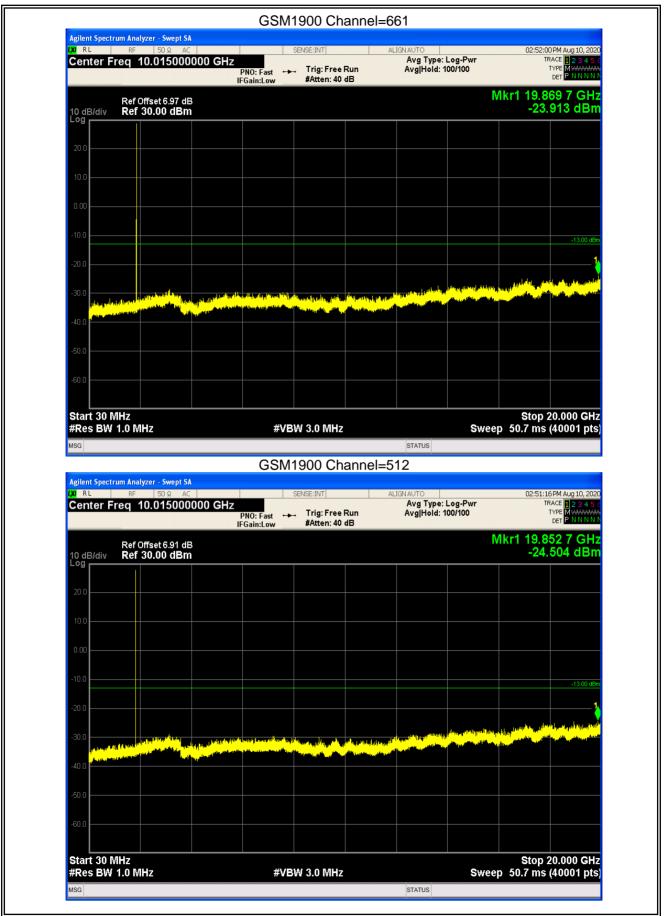
GSM850 Channel=128



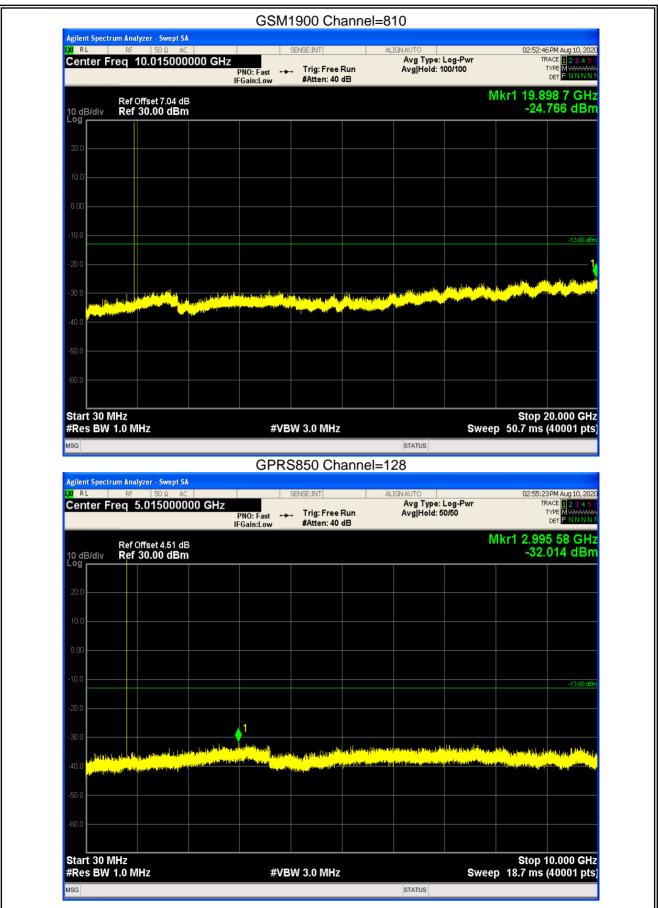
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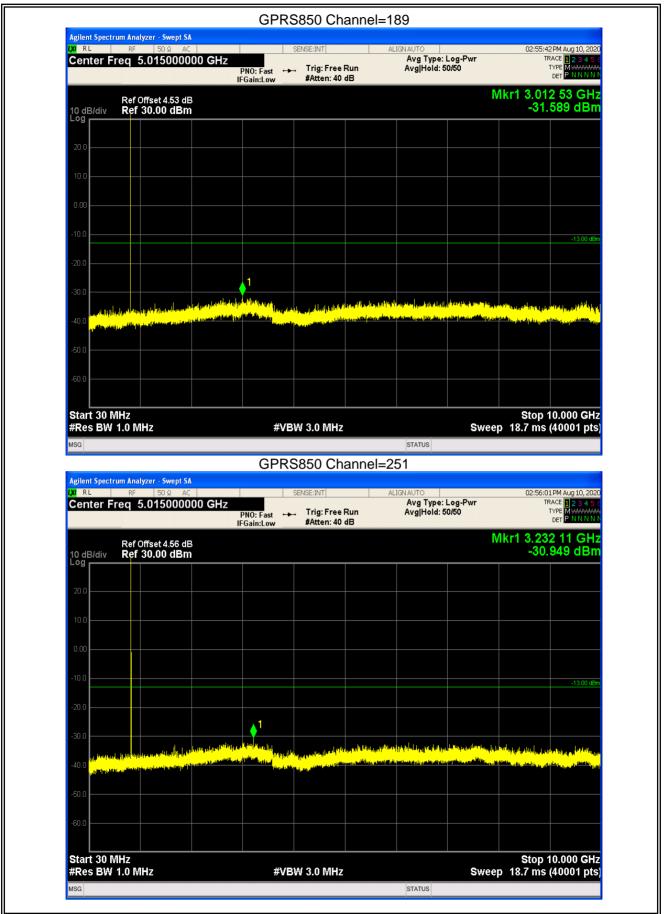
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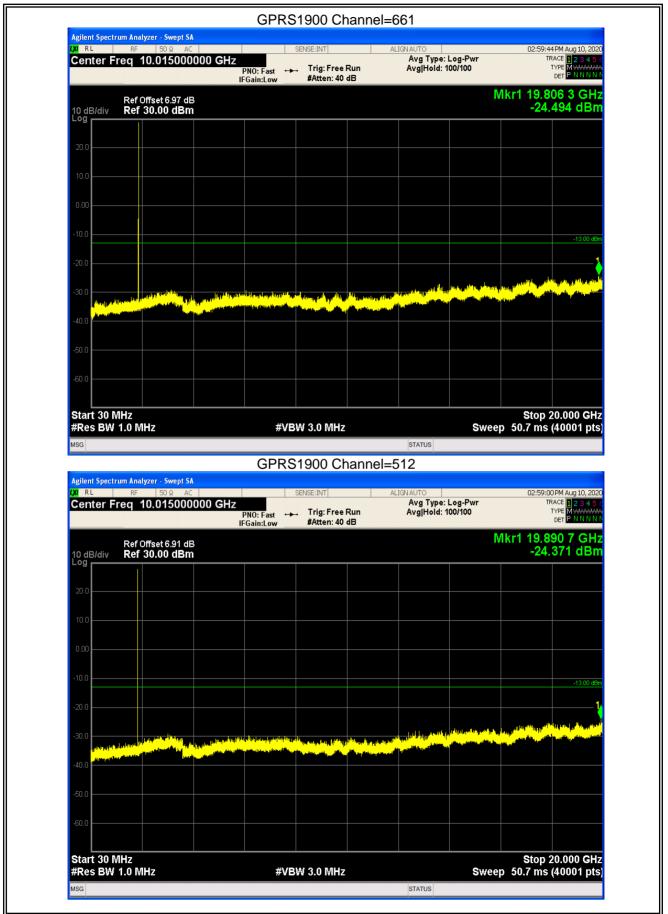
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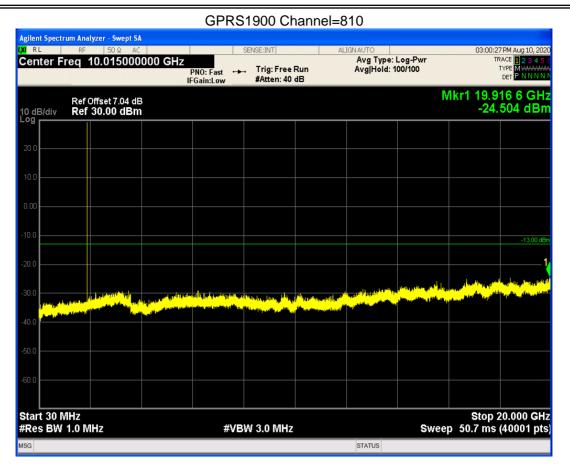


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