FCC RF TEST REPORT

Report Number	:	RP20170313031_01 **Date of Issue:** 13 Mar 2017
FCC ID	:	Q78-R8872AS8500
Model / Serial No.	:	ZXSDR R8872A S8500
Product Type	:	Macro Remote Radio Unit
Applicant	:	ZTE Corporation
Address	:	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District,Shenzhen,Guangdong,P.R.China
Production Facility	:	ZTE Corporation
Address	:	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District,Shenzhen,Guangdong,P.R.China
Test Result	:	■ Positive ☐ Negative
Total pages including Appendices	:	103

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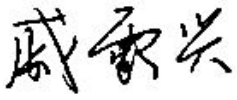
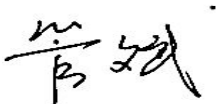
1 General Information

1.1 Notes

It is the test results from all the tests which are performed in the RF Laboratory of Shenzhen Zoom Rel Testing Technology Co., Ltd. The RF Lab was certificated by CNAS and the registration number was L0611.

Test site has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on May 10, 2016.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 373926. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Prepared By RF Test Engineer	**2017-03-12** **Date**	**Qi Luxing** **Name**	 **Signature**
Reviewed By Laboratory Manager	**2017-03-13** **Date**	**Wu Shuzhong** **Name**	 **Signature**
Approved by EMC/RF Project Manager	**2017-03-13** **Date**	**Guan Bin** **Name**	 **Signature**

1.2 Testing Laboratory

Shenzhen Zoom Rel Testing Technology Co., Ltd.

Address: 1/F, B2 Wing, ZTE plaza, Keji Road South, Hi-Tech industrial park, Shenzhen, Guangdong, 518057

Country: China
Phone: +86 755 26770349
FAX: +86 755 26770347

1.3 Details of Manufacture

Manufacture : ZTE Corporation

ADDRESS: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District,Shenzhen,Guangdong,P.R.China

PRODUCT DESCRIPTION: Macro Remote Radio Unit

MANUFACTURERS MODEL/SERIAL NUMBER: ZXSDR R8872A S8500

FCC ID : Q78- R8872AS8500

SAMPLE NUMBER: S20170313031

1.4 Application Details

Date of receipt of order: 2017-01-04
Date of receipt of test item: 2017-01-04
Date of test: 2017-01-04~2017-03-05

1.5 Test Item

Refer to Chapter 2.

1.6 Applied Standard

APPLIED PRODUCT STANDARD	TIA/EIA 603-C:2004
TEST METHODS	FCC 47 CFR Part1 FCC 47 CFR Part2:2016 FCC 47 CFR Part22:2016

2 Summary of Results

FCC RULES	DESCRIPTION OF TEST	RESULT
§2.1046 §22.913	Transmitter output Power	Compliant
§2.1091 §1.1037	RF Exposure	Compliant
§2.1053	Spurious Radiated Emissions	Compliant
§2.1051, §22.917	Spurious Emissions AT Antenna Terminals	Compliant
§2.1049 §22.917	Occupied Bandwidth	Compliant
§2.1051	Band Edge	Compliant
§ 2.1055	Frequency stability	Compliant

3 Equipment Specification

3.1 Technical specification

Size: 415 mm x 352 mm x 137 mm (HxWxD)
Input voltage: -60 ~ - 37Vdc
Frequency range: UL:824MHz~849MHz; DL: 869MHz~894MHz
(Bottom frequency is about 869.2MHz, Middle frequency is about 881.4MHz,Top frequency is about 893.8MHz).
Max RF output power: GMSK 49dBm,8PSK 47dBm
Gain of the antenna: 15dBi
Modulation type of emission: GSM
Appearance of EUT:

fig 1. FIGURE 1 APPEARANCE OF ZXSDR R8872A S8500

4 Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2. as well as the following parts:
Part 24 Wireless Communication Services
Applicable Standards: TIA EIA 137-A, TIA EIA 97-D, TIA/EIA 603-C, Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
All radiated and conducted measurement was performed at ZTE Corporation Reliability Testing Center. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

5 Test configuration

The EUT was configured for testing according to TIA/EIA-603C.
The final qualification test was performed with EUT operating at normal mode.
Equipment Modifications
ZTE Corporation has not done any modification on the EUT.

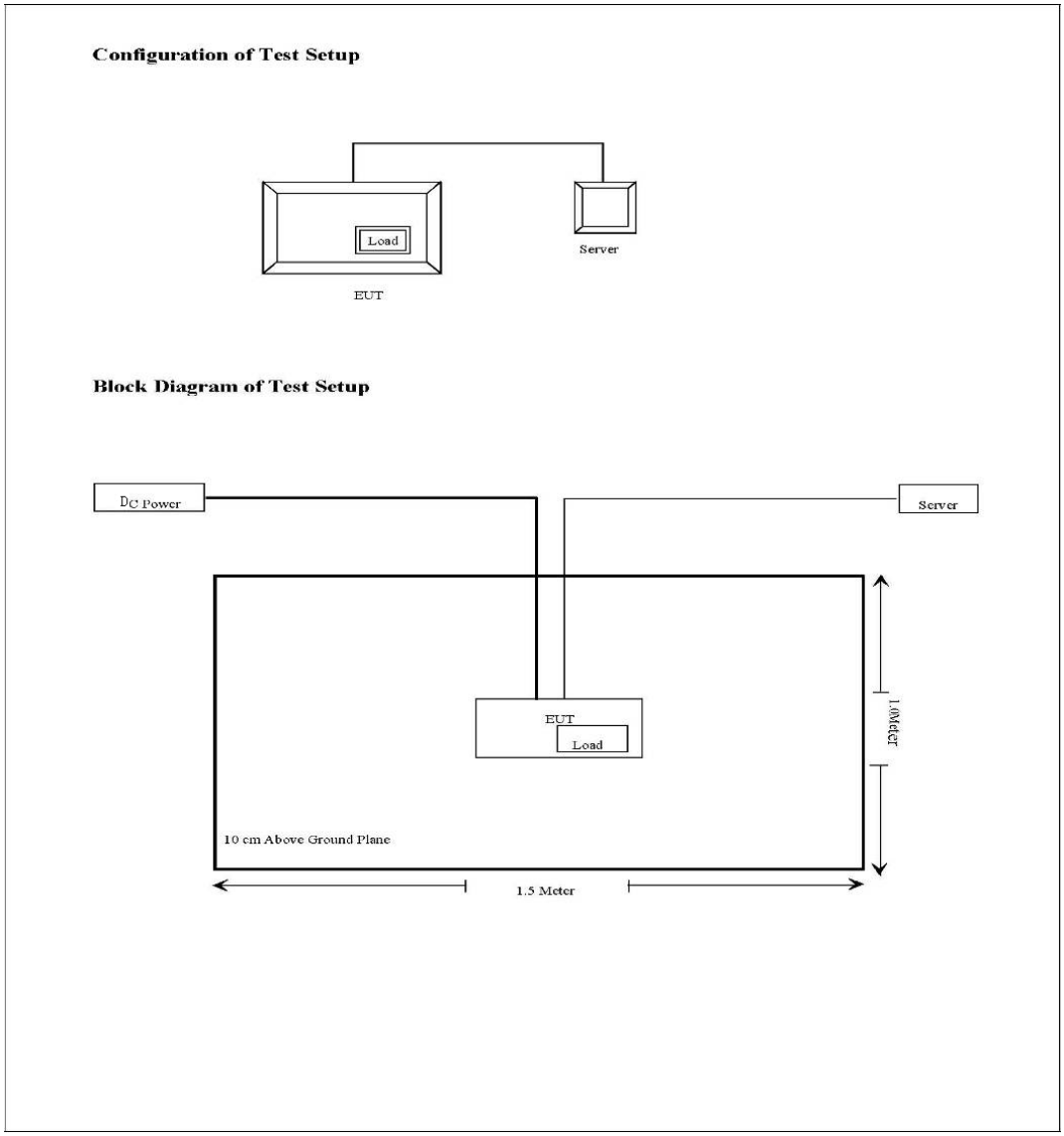


fig 2. Test configuration

6 TRANSMITTER OUTPUT POWER

6.1 Applicable Standard：FCC §2.1046 §22.913

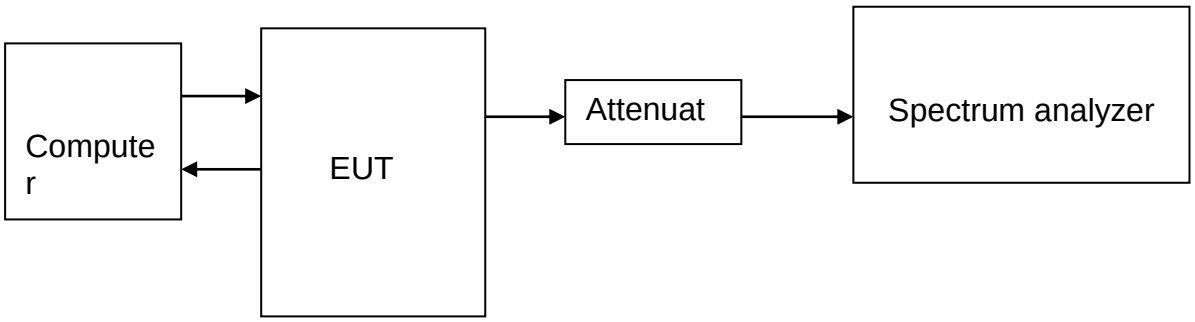
According to FCC §2.1046 &22.913, the EIRP(equivalent isotropically radiated power) must not exceed 500 Watts.

6.2 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY52090451	2016-3-15	2017-3-15
DTS	DTS100 40dB Attenuator	DTS100-40dB-N	N/A	N/A	N/A
Hewlett Packard	Hewlett Packard RF Cable	8120-6192	01428251	N/A	N/A

***statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

6.3 Test Procedure



The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. External attenuation Loss is 40dB, Cable Loss is about 3dB

6.4 Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

6.5 Test Result: Pass

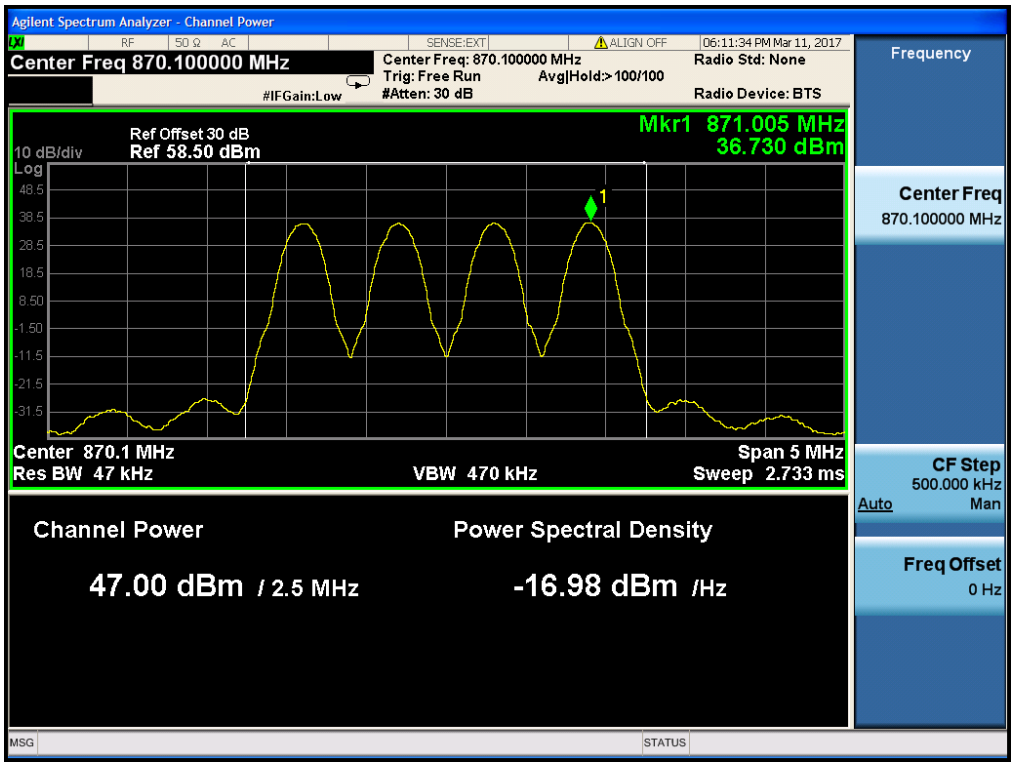
6.6 Test Mode: Transmitting GSM

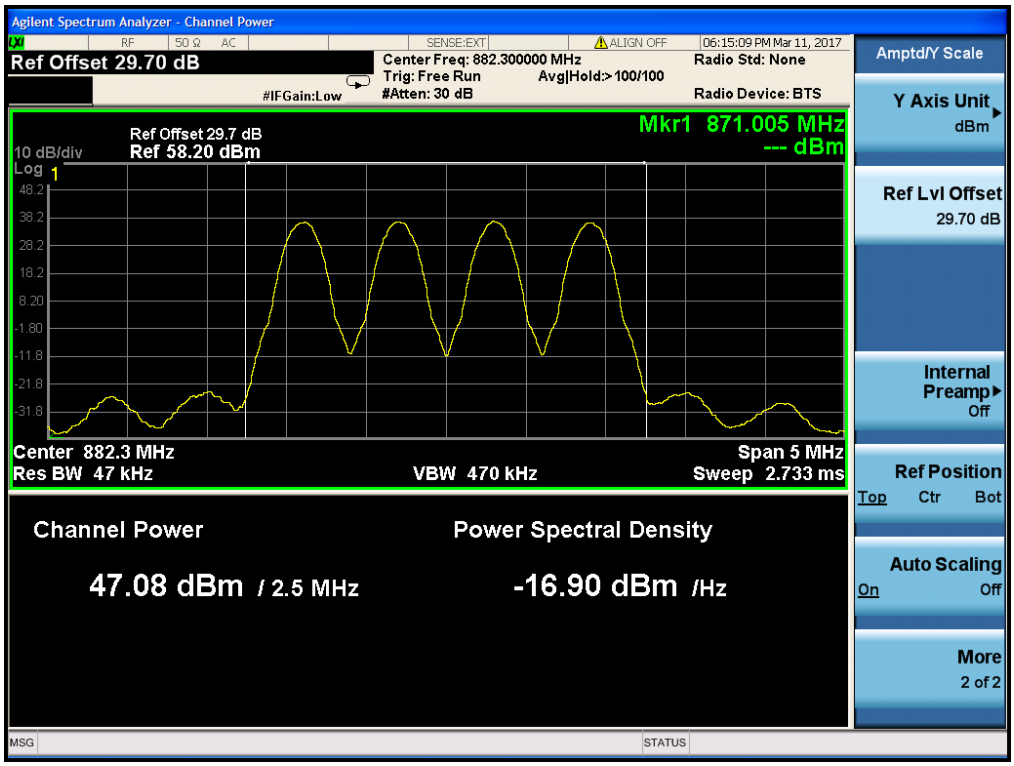
6.7 Test Data

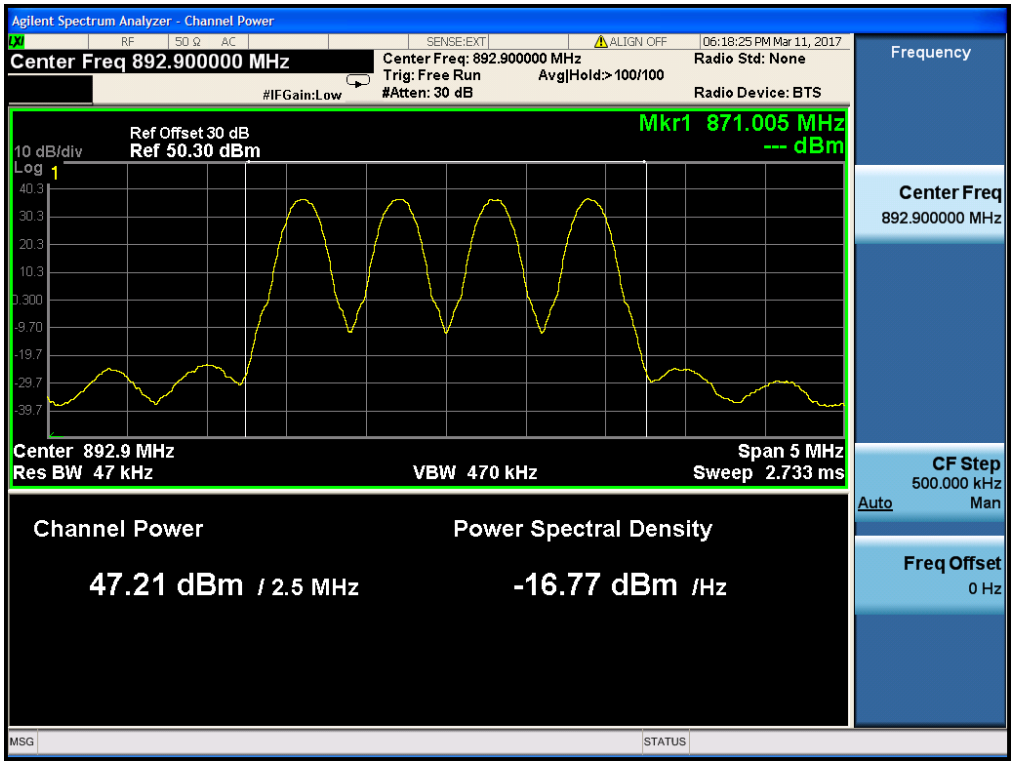
Four carriers Port 1 8PSK

Port	modulation	Center Freq.	Frequency (MHz)	Max output Power

		(MHz)		in dBm
1	8PSK	870.1	869.2/869.8/ 870.4 /871	47
		882.3	881.4/882/882.6/883.2	47.08
		892.9	892/892.6/893.2/893.8	47.21

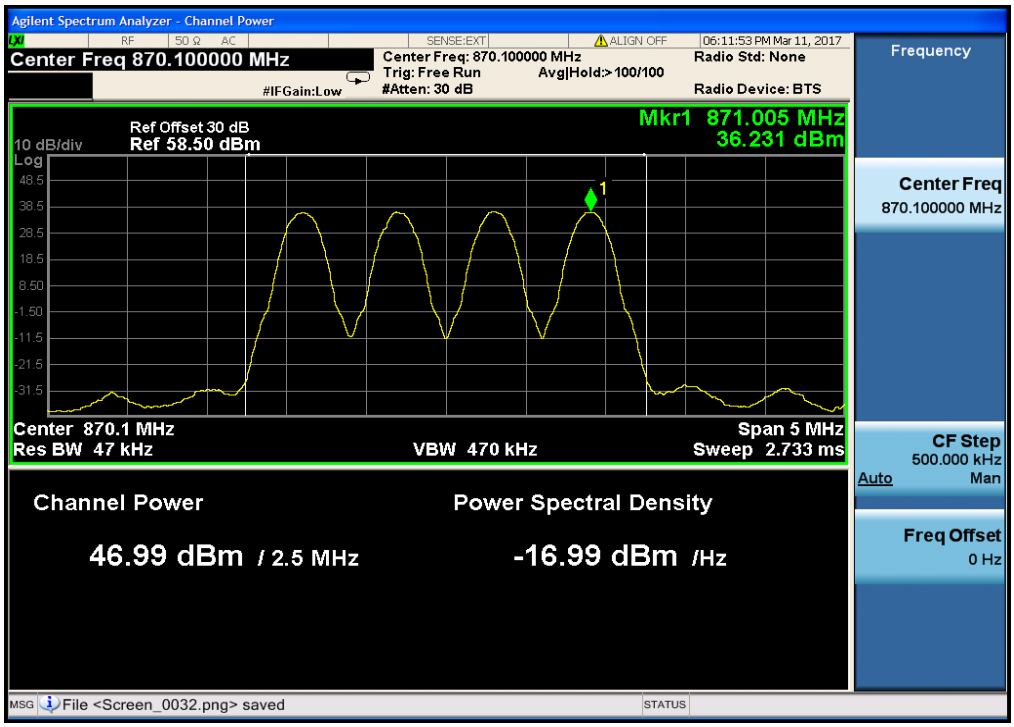


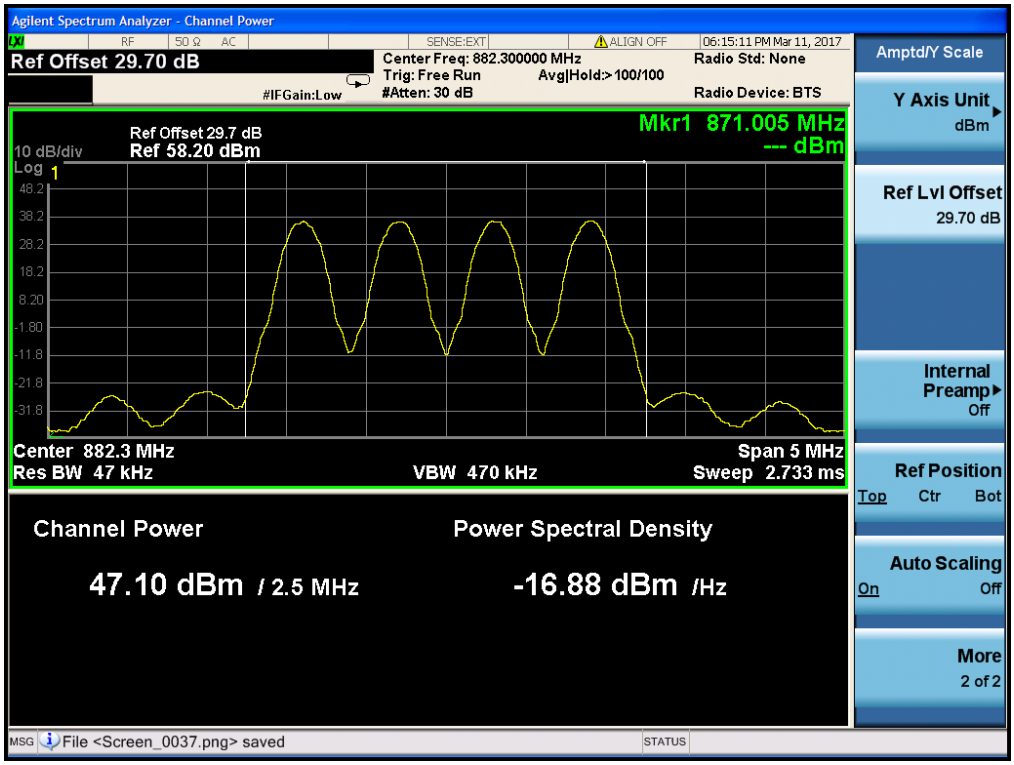




Four carriers Port 4 8PSK

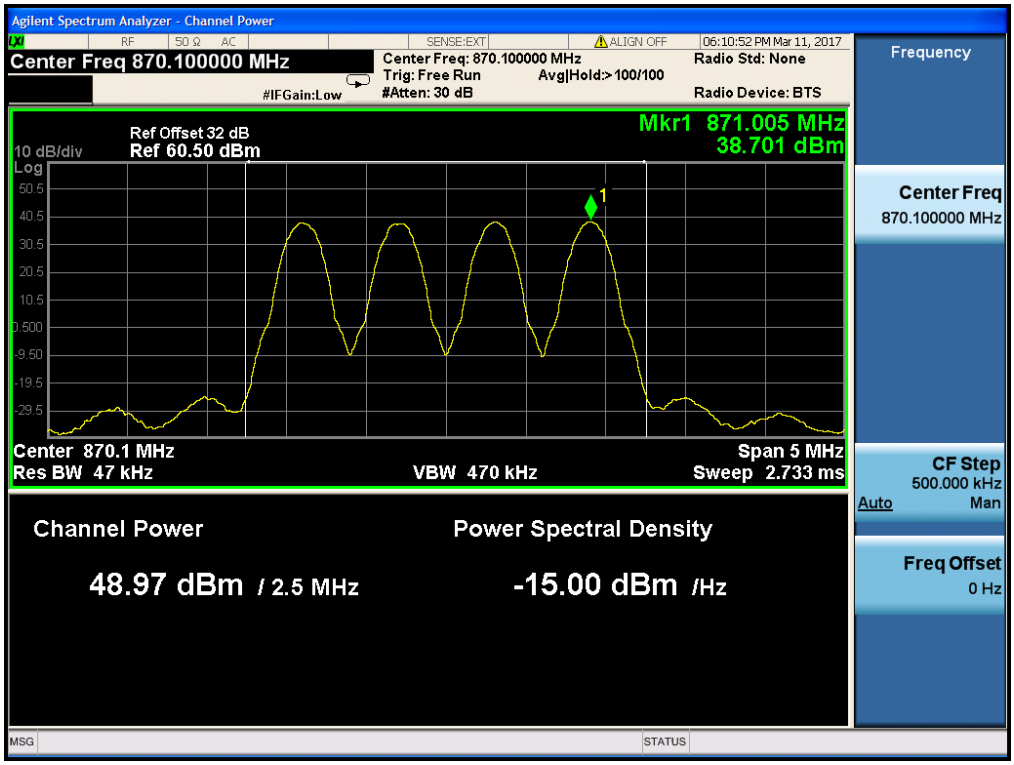
Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
4	8PSK	870.1	869.2/869.8/ 870.4 /871	46.99
		882.3	881.4/882/882.6/883.2	47.1
		892.9	892/892.6/893.2/893.8	47.14





Four carriers Port 1 GMSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
1	GMSK	870.1	869.2/869.8/ 870.4 /871	48.97
		882.3	881.4/882/882.6/883.2	49.17
		892.9	892/892.6/893.2/893.8	49.26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ALIGN OFF
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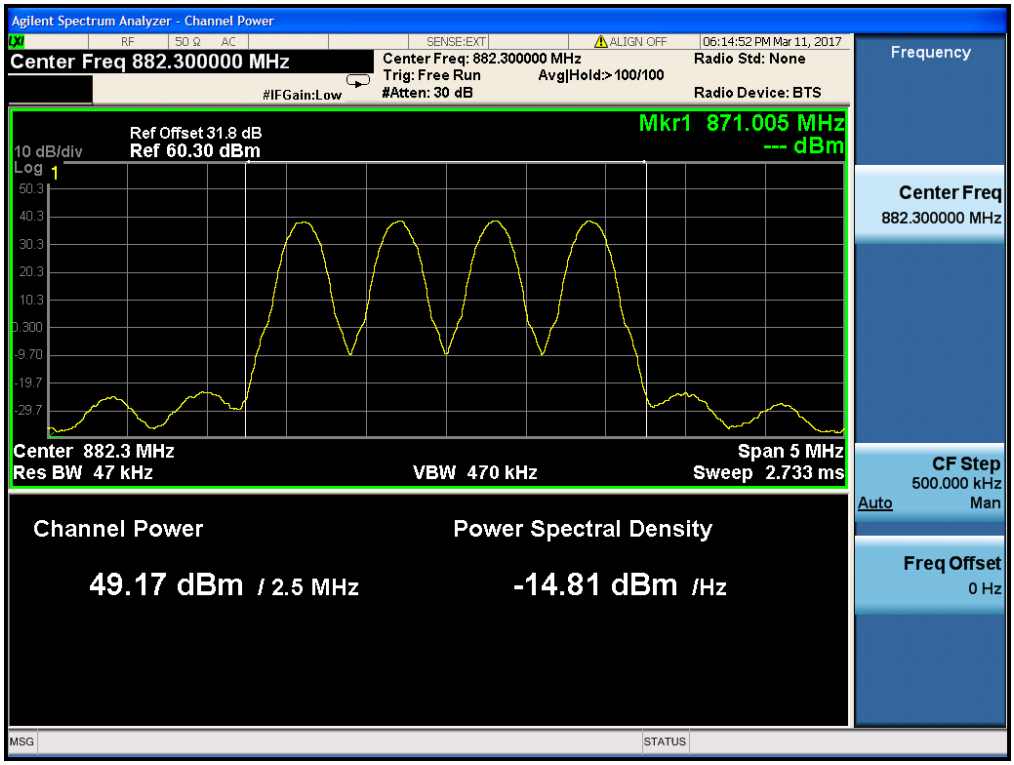
#IFGain:Low
Center Freq: 870.100000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 32 dB
10 dB/div
Ref 60.50 dBm
Log
Mkr1 871.005 MHz
38.701 dBm
50.5
40.5
30.5
20.5
10.5
0.500
-9.50
-19.5
-29.5
Center 870.1 MHz
Res BW 47 kHz
VBW 470 kHz
Span 5 MHz
Sweep 2.733 ms
Channel Power
48.97 dBm / 2.5 MHz
Power Spectral Density
-15.00 dBm /Hz
Center Freq
870.100000 MHz
CF Step
500.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS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#IFGain:Low
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Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.8 dB
10 dB/div
Ref 60.30 dBm
Log
Mkr1 871.005 MHz
--- dBm
50.3
40.3
30.3
20.3
10.3
0.300
-9.70
-19.7
-29.7
Center 882.3 MHz
Res BW 47 kHz
VBW 470 kHz
Span 5 MHz
Sweep 2.733 ms
Channel Power
49.17 dBm / 2.5 MHz
Power Spectral Density
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Center Freq
882.300000 MHz
CF Step
500.000 kHz
Auto
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Freq Offset
0 Hz
MSG
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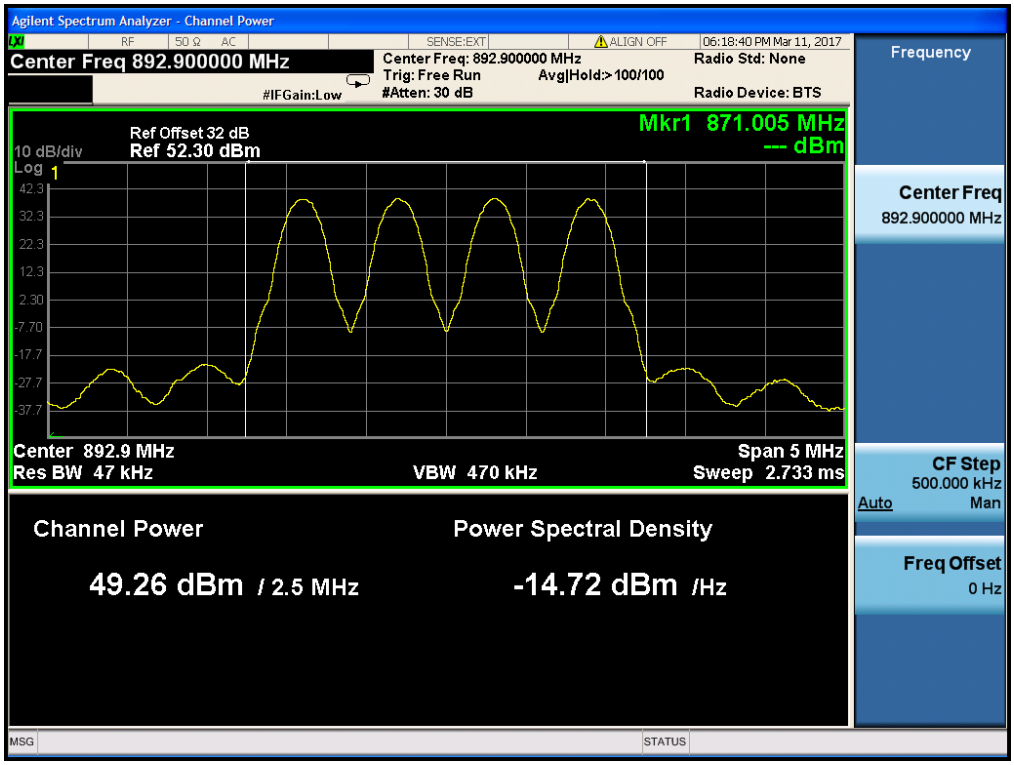
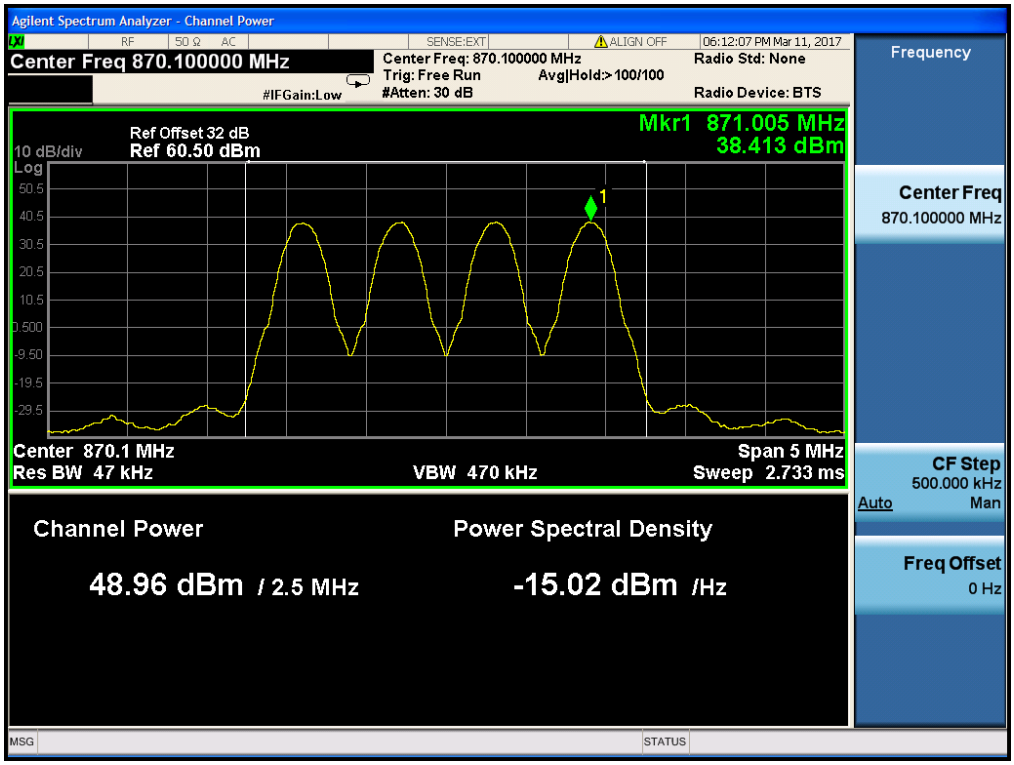


Four carriers Port 4 GMSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
4	GMSK	870.1	869.2/869.8/ 870.4 /871	48.96
		882.3	881.4/882/882.6/883.2	49.25
		892.9	892/892.6/893.2/893.8	49.12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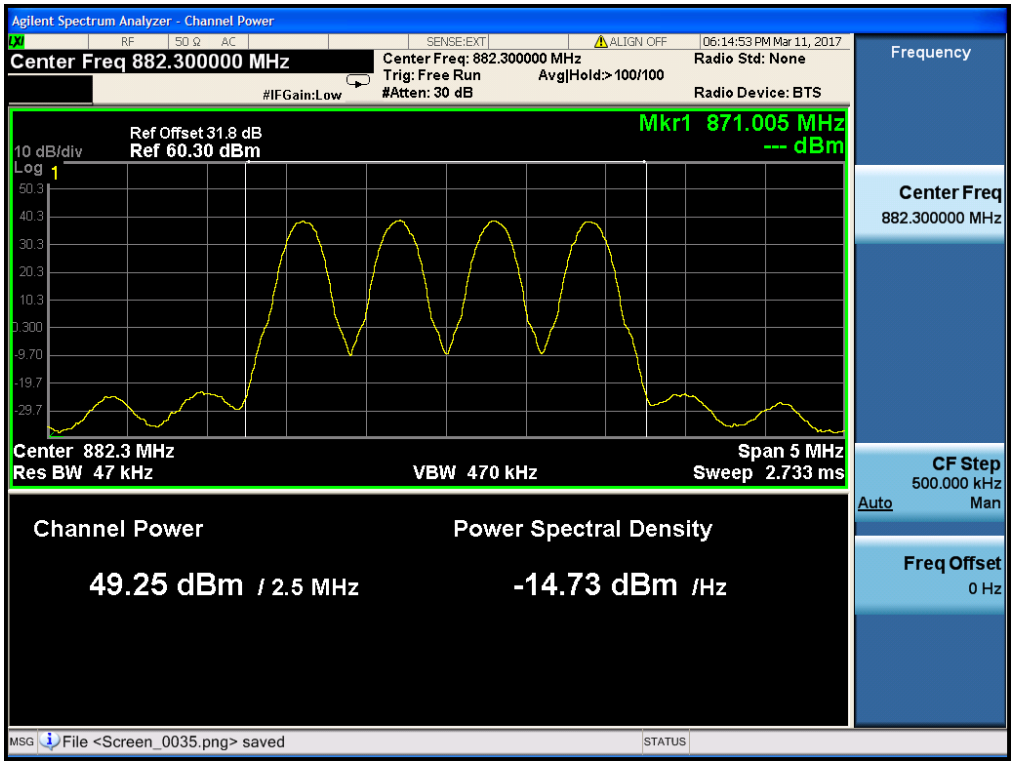
Center Freq: 870.100000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 32 dB
10 dB/div
Ref 60.50 dBm
Log
Mkr1 871.005 MHz
38.413 dBm
50.5
40.5
30.5
20.5
10.5
0.500
-9.50
-19.5
-29.5
Center 870.1 MHz
Res BW 47 kHz
VBW 470 kHz
Span 5 MHz
Sweep 2.733 ms
Channel Power
48.96 dBm / 2.5 MHz
Power Spectral Density
-15.02 dBm /Hz
Center Freq
870.100000 MHz
CF Step
500.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:14:53 PM Mar 11, 2017
Center Freq 882.300000 MHz
Center Freq: 882.300000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.8 dB
10 dB/div
Ref 60.30 dBm
Log
Mkr1 871.005 MHz
--- dBm
50.3
40.3
30.3
20.3
10.3
0.300
-9.70
-19.7
-29.7
Center 882.3 MHz
Res BW 47 kHz
VBW 470 kHz
Span 5 MHz
Sweep 2.733 ms
Channel Power
49.25 dBm / 2.5 MHz
Power Spectral Density
-14.73 dBm /Hz
Center Freq
882.300000 MHz
CF Step
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Auto
Man
Freq Offset
0 Hz
MSG
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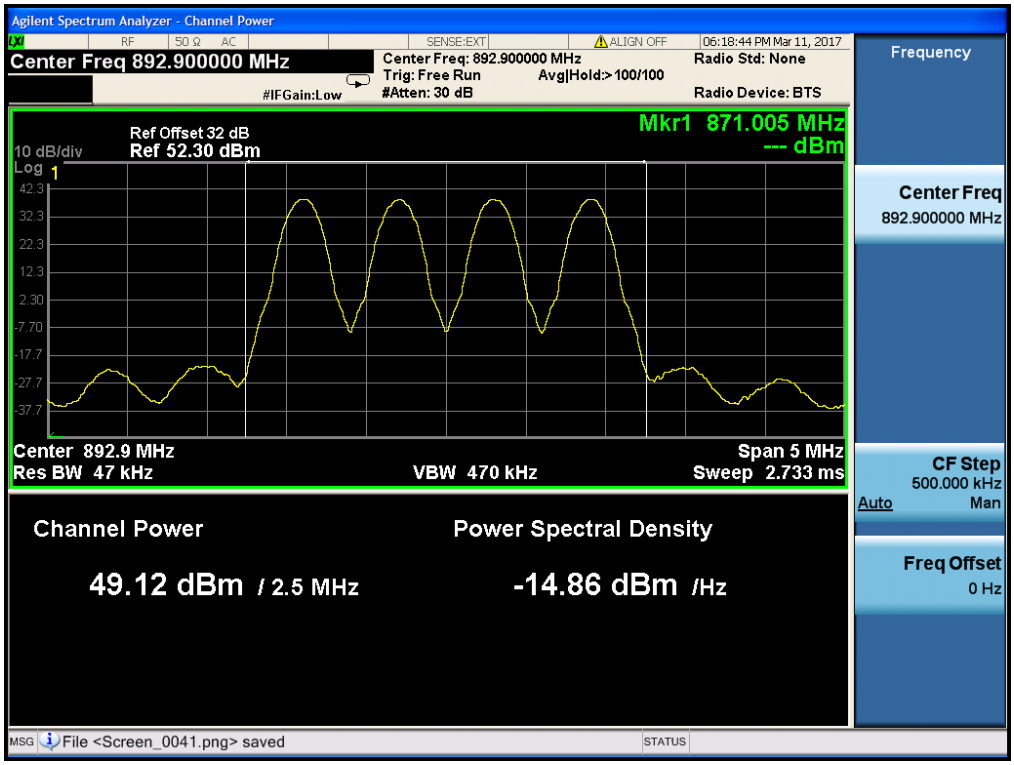
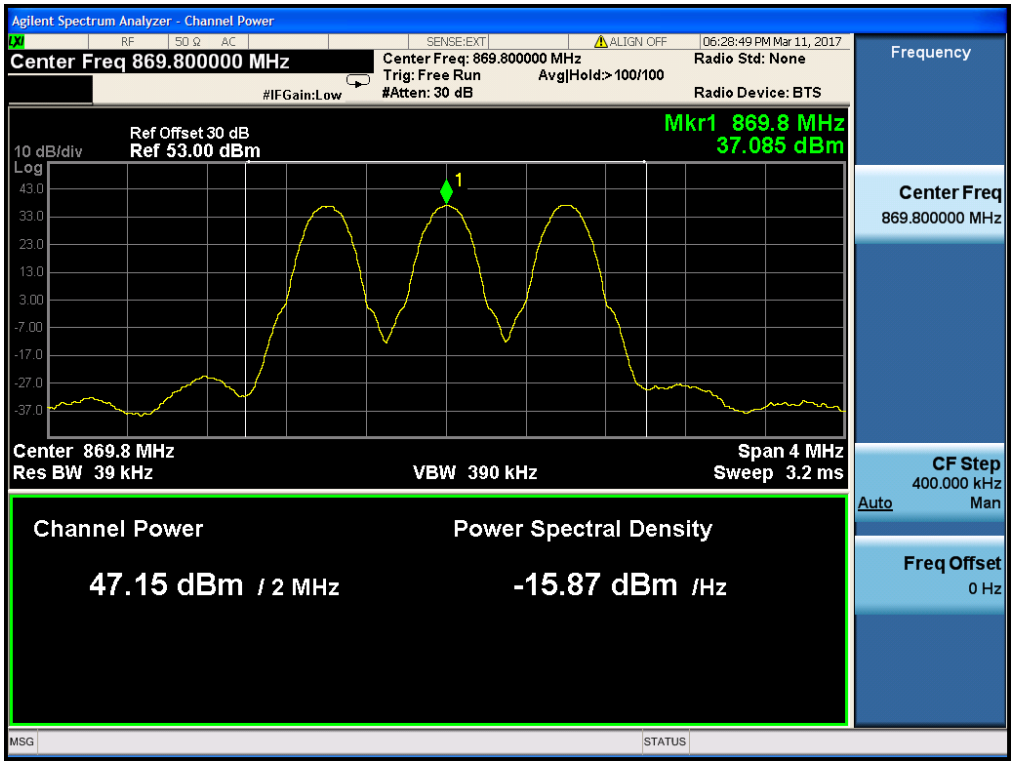
STATUS



Three carriers Port 1 8PSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
1	8PSK	869.8	869.2/869.8/ 870.4	47.15
		882	881.4/882/882.6	46.98
		893.2	892.6/893.2/893.8	47.14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ALIGN OFF
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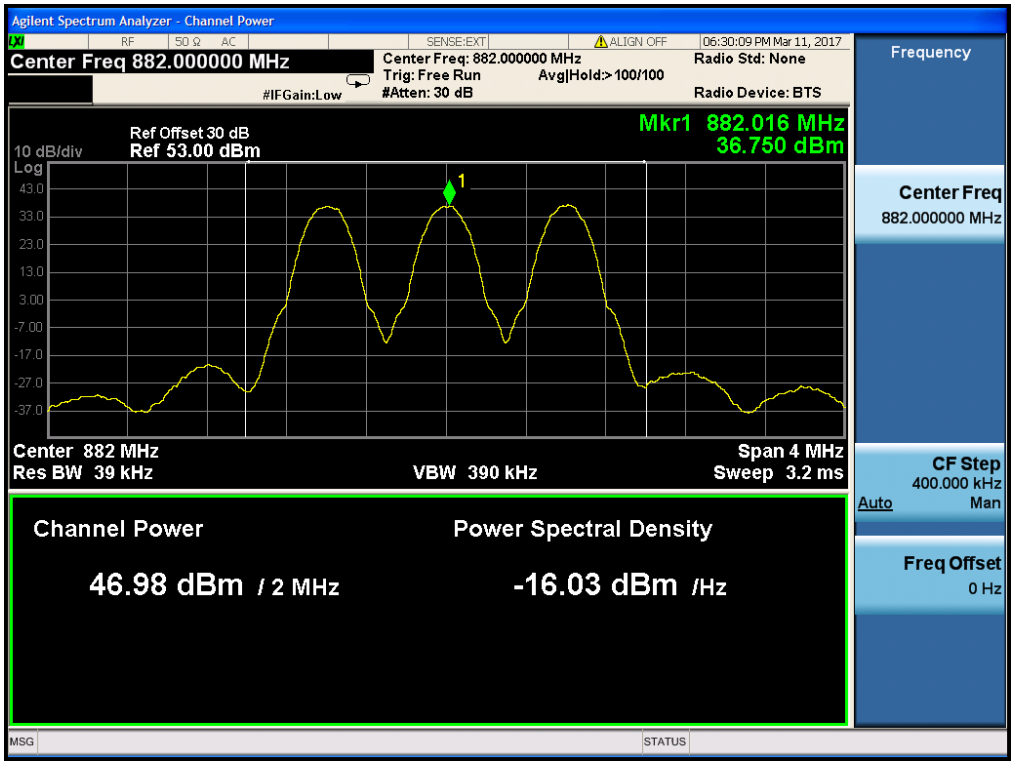
Center Freq: 869.800000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 30 dB
10 dB/div
Ref 53.00 dBm
Log
Mkr1 869.8 MHz
37.085 dBm
43.0
33.0
23.0
13.0
3.00
-7.00
-17.0
-27.0
-37.0
Center 869.8 MHz
Res BW 39 kHz
VBW 390 kHz
Span 4 MHz
Sweep 3.2 ms
Channel Power
47.15 dBm / 2 MHz
Power Spectral Density
-15.87 dBm /Hz
Center Freq
869.800000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
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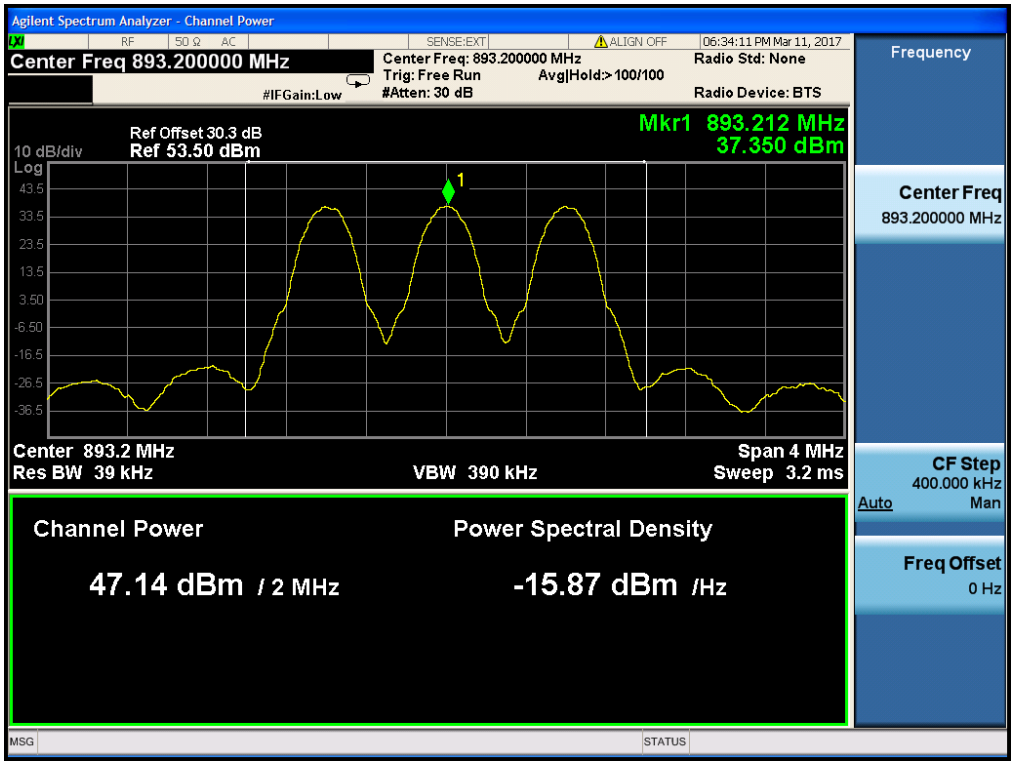
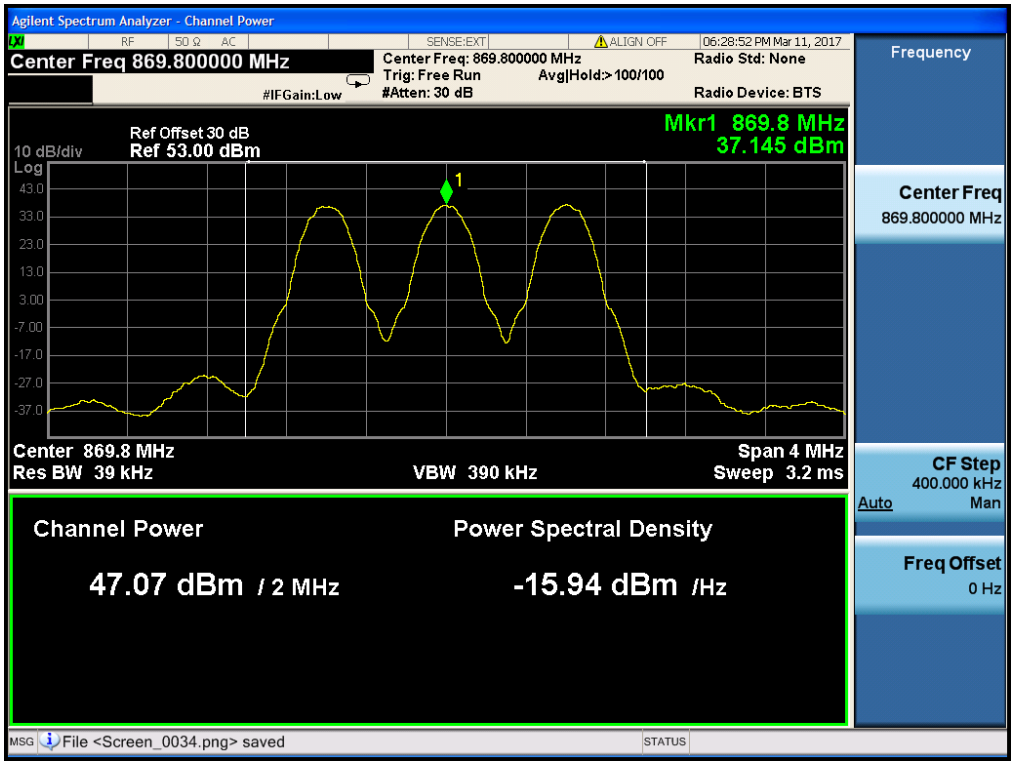
Center Freq 882.000000 MHz
Center Freq: 882.000000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 30 dB
10 dB/div
Ref 53.00 dBm
Log
Mkr1 882.016 MHz
36.750 dBm
43.0
33.0
23.0
13.0
3.00
-7.00
-17.0
-27.0
-37.0
Center 882 MHz
Res BW 39 kHz
VBW 390 kHz
Span 4 MHz
Sweep 3.2 ms
Channel Power
46.98 dBm / 2 MHz
Power Spectral Density
-16.03 dBm /Hz
Center Freq
882.000000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS



Three carriers Port 4 8PSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
4	8PSK	869.8	869.2/869.8/ 870.4	47.07
		882	881.4/882/882.6	47.04
		893.2	892.6/893.2/893.8	47.08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Center Freq 869.800000 MHz
Center Freq: 869.800000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 30 dB
10 dB/div
Ref 53.00 dBm
Log
Mkr1 869.8 MHz
37.145 dBm
43.0
33.0
23.0
13.0
3.00
-7.00
-17.0
-27.0
-37.0
Center 869.8 MHz
Res BW 39 kHz
VBW 390 kHz
Span 4 MHz
Sweep 3.2 ms
Channel Power
47.07 dBm / 2 MHz
Power Spectral Density
-15.94 dBm /Hz
Center Freq
869.800000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
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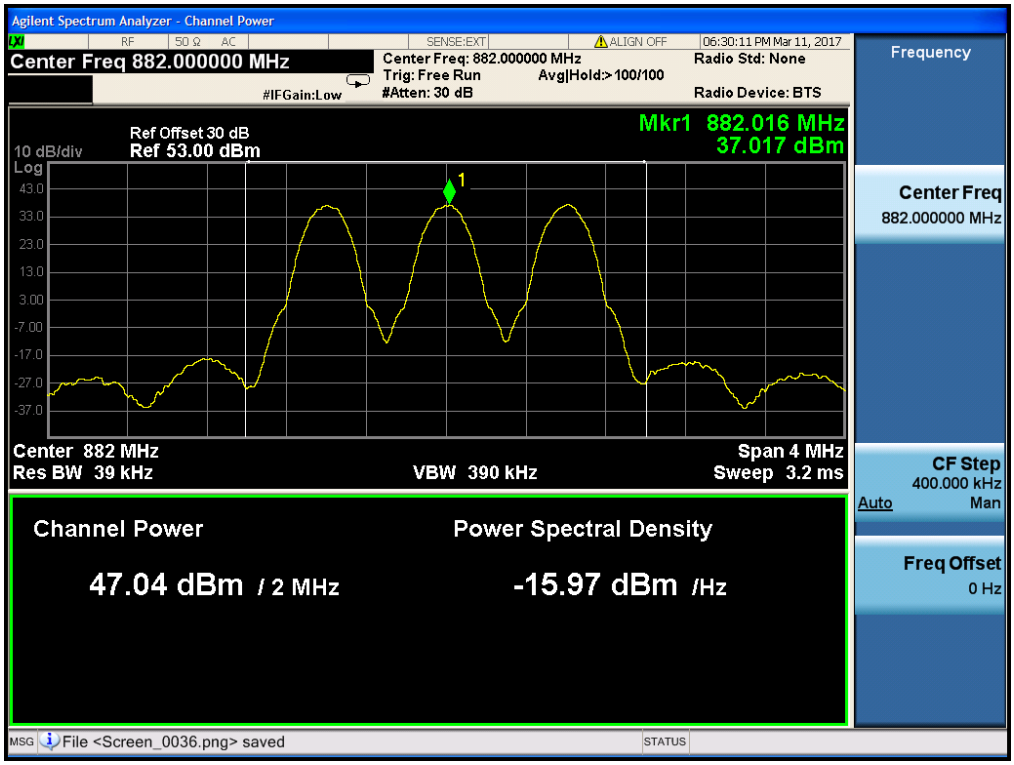
STATUS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RF 50 Ω AC
SENSE:EXT
ALIGN OFF
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Center Freq 882.000000 MHz
Center Freq: 882.000000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 30 dB
10 dB/div
Ref 53.00 dBm
Log
Mkr1 882.016 MHz
37.017 dBm
43.0
33.0
23.0
13.0
3.00
-7.00
-17.0
-27.0
-37.0
Center 882 MHz
Res BW 39 kHz
VBW 390 kHz
Span 4 MHz
Sweep 3.2 ms
Channel Power
47.04 dBm / 2 MHz
Power Spectral Density
-15.97 dBm /Hz
Center Freq
882.000000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
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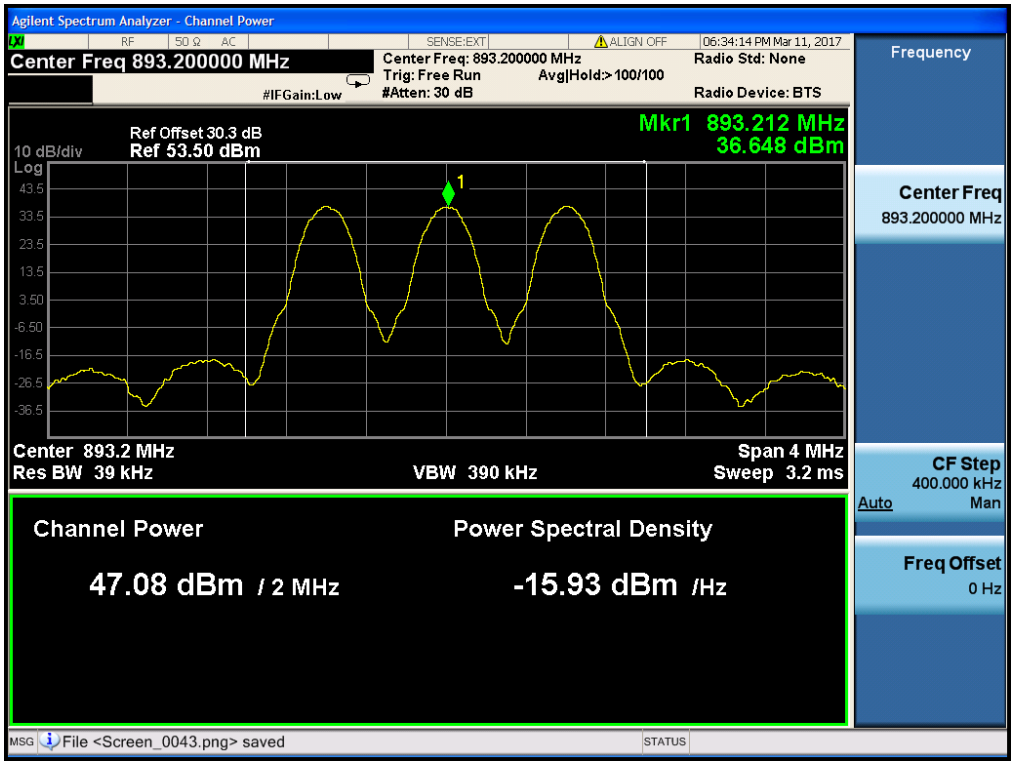
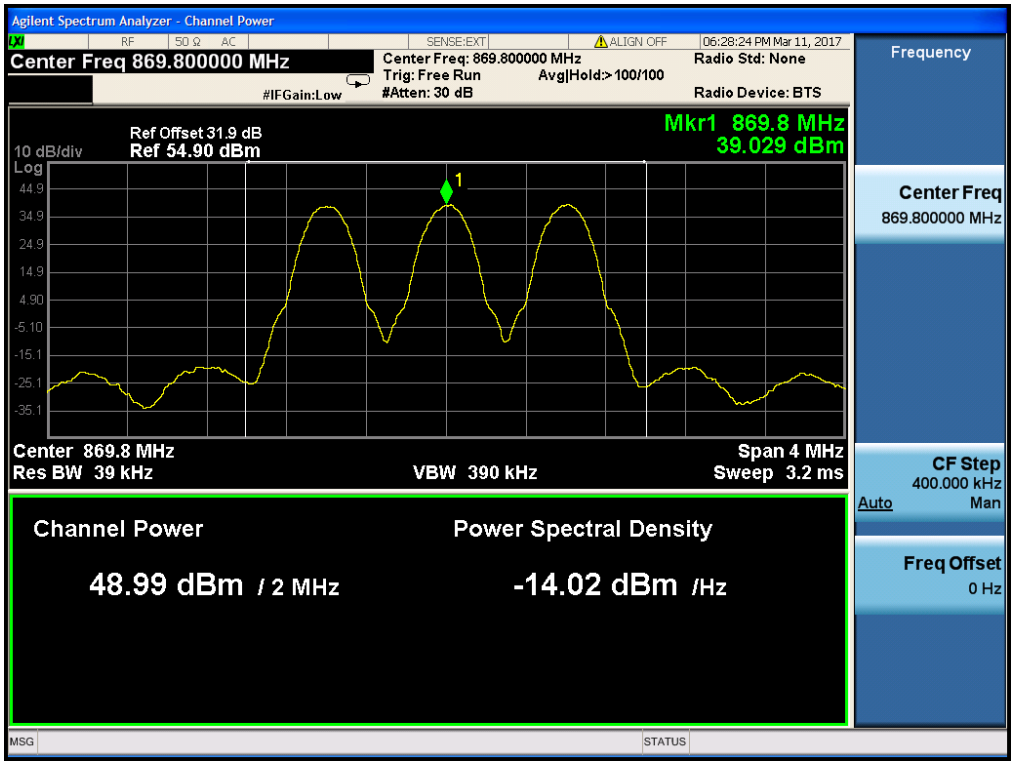
STATUS



Three carriers Port 1 GMSK

Port1	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
	GMSK	869.8	869.2/869.8/ 870.4	48.99
		882	881.4/882/882.6	49.19
		893.2	892.6/893.2/893.8	49.2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RF 50 Ω AC
SENSE:EXT
ALIGN OFF
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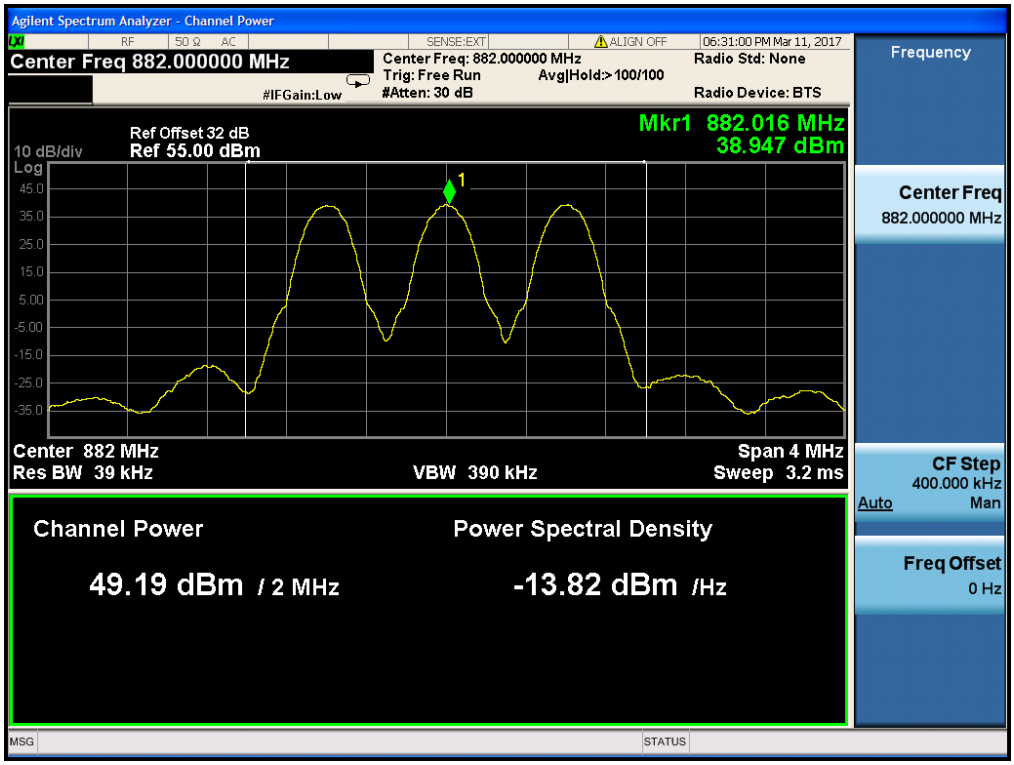
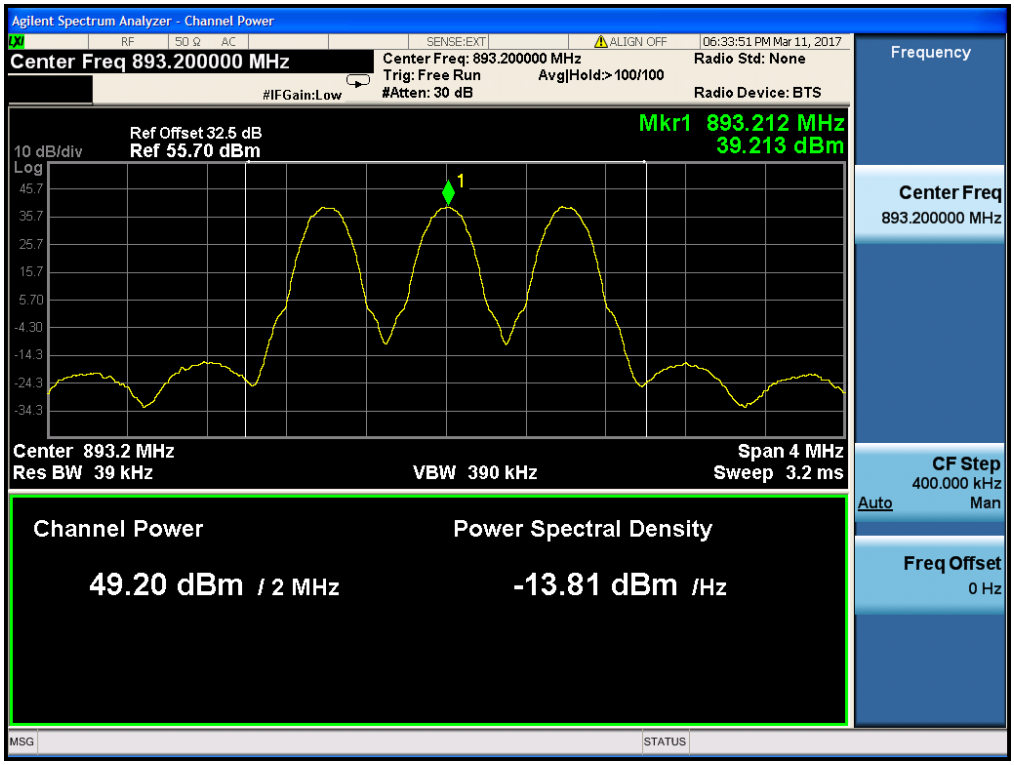
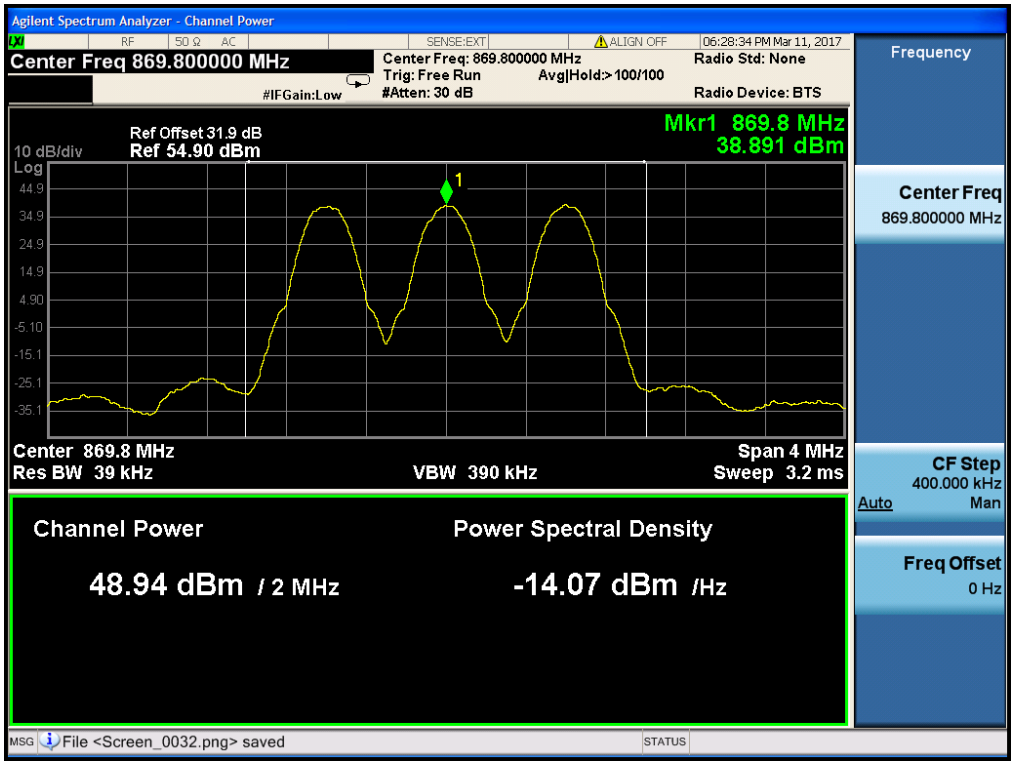
Center Freq 869.800000 MHz
Center Freq: 869.800000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.9 dB
10 dB/div
Ref 54.90 dBm
Log
Mkr1 869.8 MHz
39.029 dBm
44.9
34.9
24.9
14.9
4.90
-5.10
-15.1
-25.1
-35.1
Center 869.8 MHz
Res BW 39 kHz
VBW 390 kHz
Span 4 MHz
Sweep 3.2 ms
Channel Power
48.99 dBm / 2 MHz
Power Spectral Density
-14.02 dBm /Hz
Center Freq
869.800000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

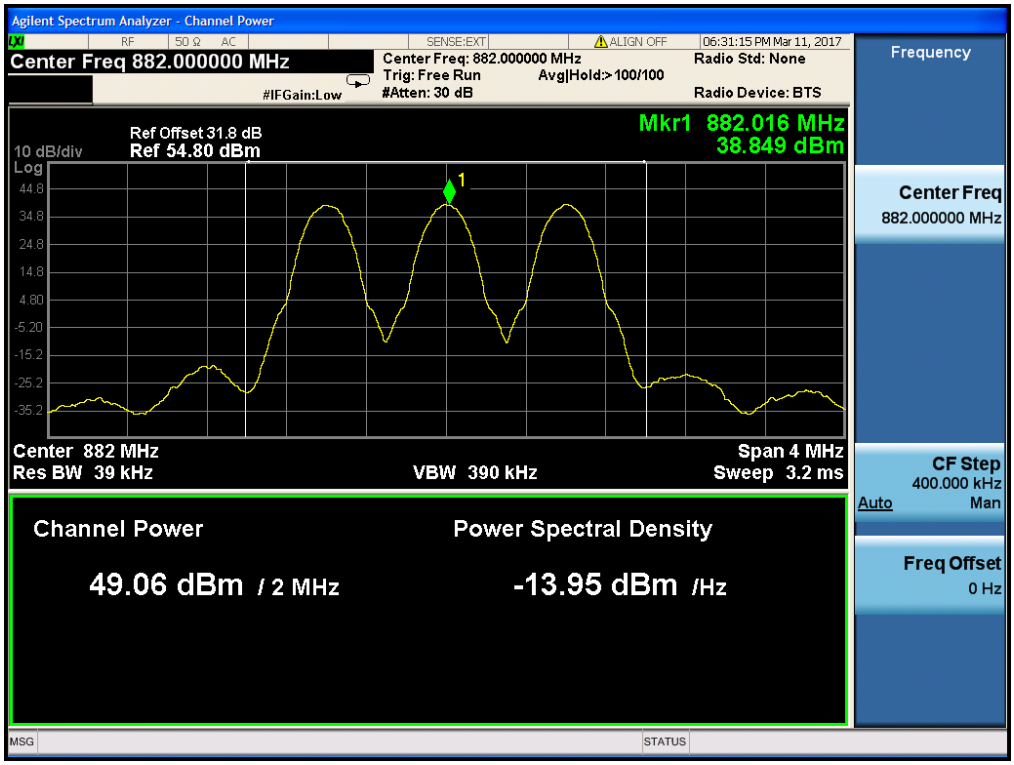

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:31:00 PM Mar 11, 2017
Center Freq 882.000000 MHz
Center Freq: 882.000000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 32 dB
10 dB/div
Ref 55.00 dBm
Log
Mkr1 882.016 MHz
38.947 dBm
45.0
35.0
25.0
15.0
5.00
-5.00
-15.0
-25.0
-35.0
Center 882 MHz
Res BW 39 kHz
VBW 390 kHz
Span 4 MHz
Sweep 3.2 ms
Channel Power
49.19 dBm / 2 MHz
Power Spectral Density
-13.82 dBm /Hz
Center Freq
882.000000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

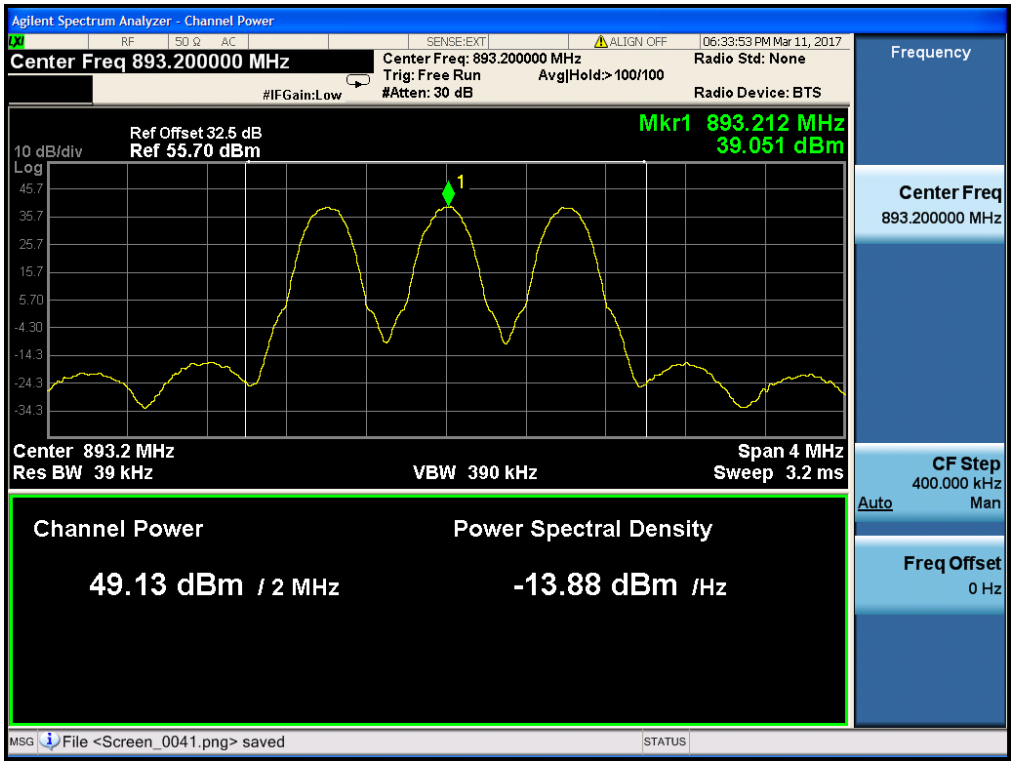


Three carriers Port 4 GMSK

Port4	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
	GMSK	869.8	869.2/869.8/ 870.4	48.94
		882	881.4/882/882.6	49.06
		893.2	892.6/893.2/893.8	49.13

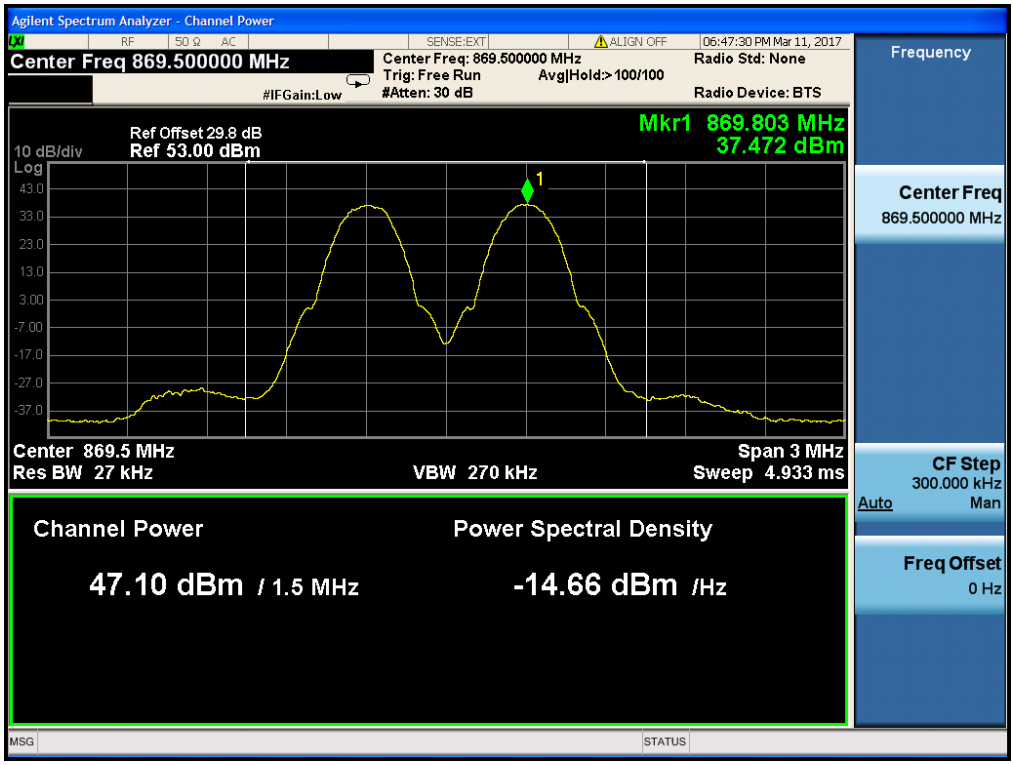

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:28:34 PM Mar 11, 2017
Center Freq 869.800000 MHz
Center Freq: 869.800000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.9 dB
10 dB/div
Ref 54.90 dBm
Log
Mkr1 869.8 MHz
38.891 dBm
44.9
34.9
24.9
14.9
4.90
-5.10
-15.1
-25.1
-35.1
Center 869.8 MHz
Res BW 39 kHz
VBW 390 kHz
Span 4 MHz
Sweep 3.2 ms
Channel Power
48.94 dBm / 2 MHz
Power Spectral Density
-14.07 dBm /Hz
Center Freq
869.800000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
File <Screen_0032.png> saved
STATUS

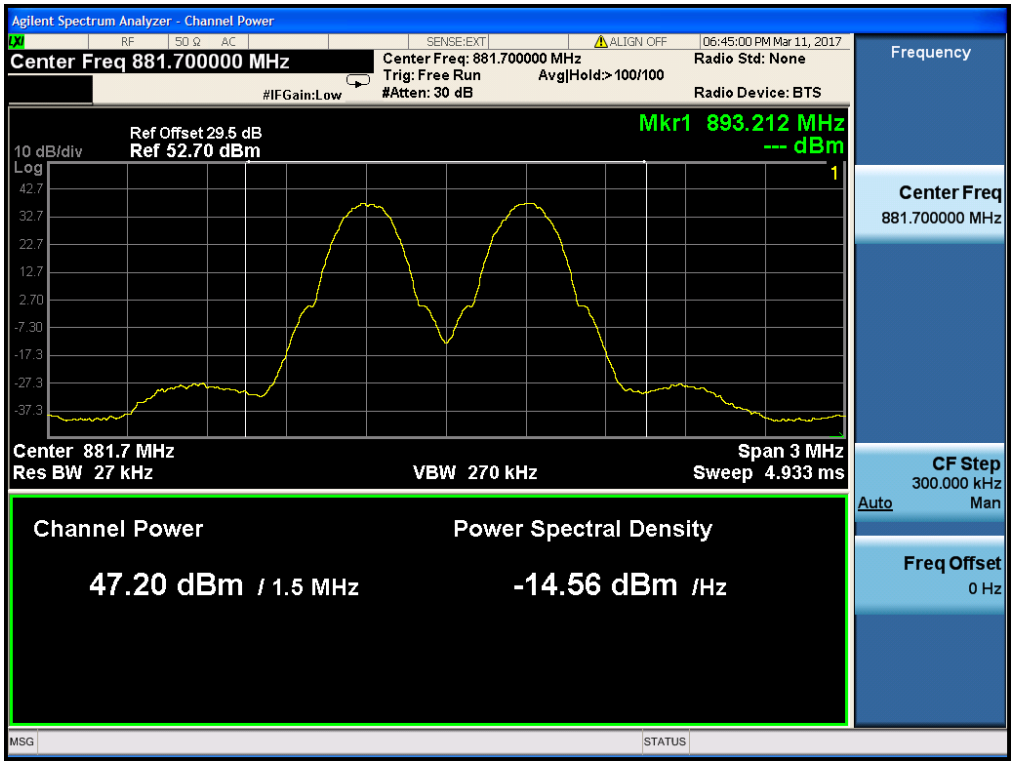

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:31:15 PM Mar 11, 2017
Center Freq 882.000000 MHz
Center Freq: 882.000000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.8 dB
10 dB/div
Ref 54.80 dBm
Log
Mkr1 882.016 MHz
38.849 dBm
44.8
34.8
24.8
14.8
4.80
-5.20
-15.2
-25.2
-35.2
Center 882 MHz
Res BW 39 kHz
VBW 390 kHz
Span 4 MHz
Sweep 3.2 ms
Channel Power
49.06 dBm / 2 MHz
Power Spectral Density
-13.95 dBm /Hz
Center Freq
882.000000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

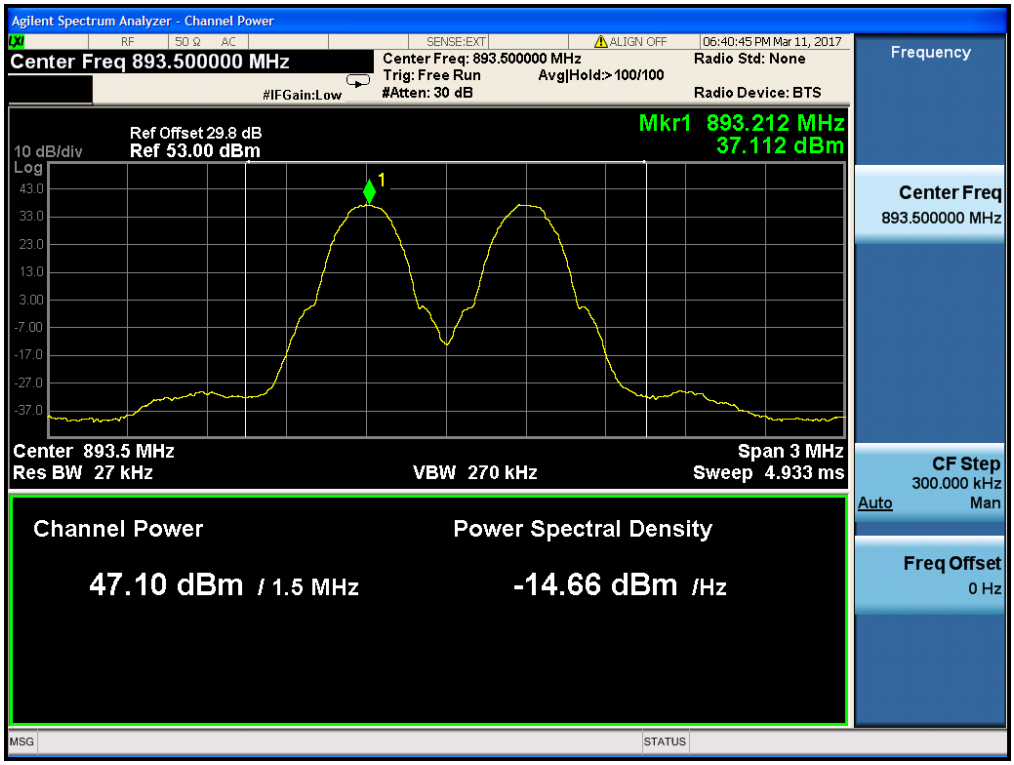


Two carriers Port 1 8PSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
1	8PSK	869.5	869.2/869.8	47.1
		881.7	881.4/882	47.2
		893.5	893.2/893.8	47.1

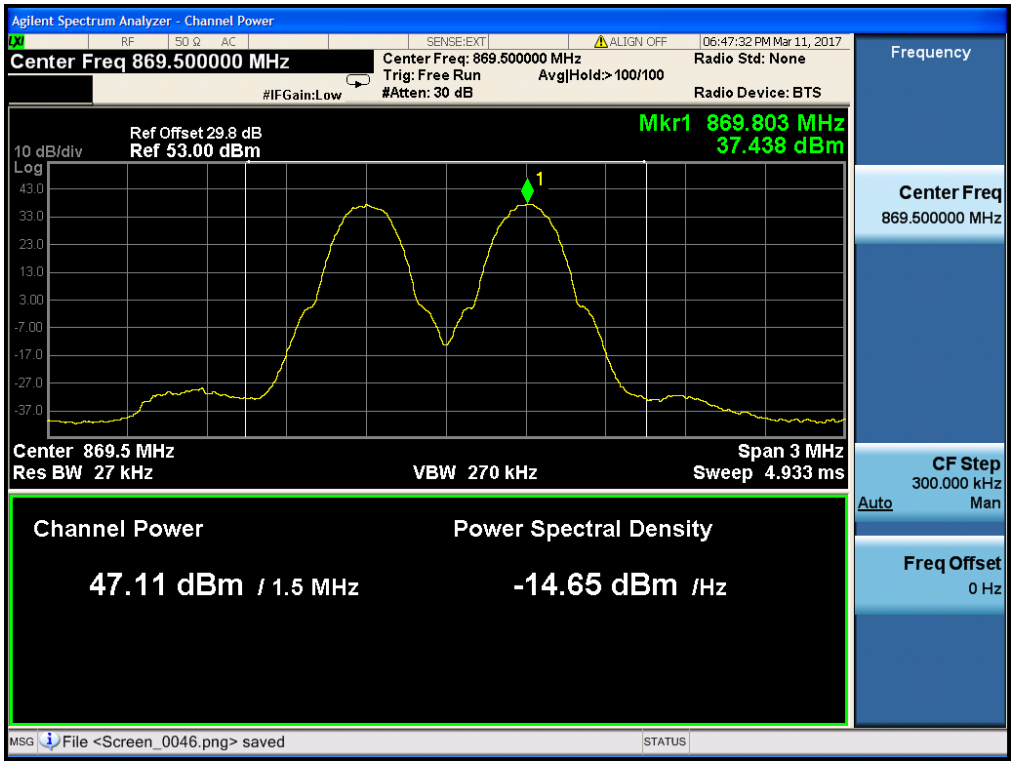

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:47:30 PM Mar 11, 2017
Center Freq 869.500000 MHz
Center Freq: 869.500000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 29.8 dB
10 dB/div
Ref 53.00 dBm
Log
Mkr1 869.803 MHz
37.472 dBm
43.0
33.0
23.0
13.0
3.00
-7.00
-17.0
-27.0
-37.0
Center 869.5 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Center Freq
869.500000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
Channel Power
47.10 dBm / 1.5 MHz
Power Spectral Density
-14.66 dBm /Hz
MSG
STATUS

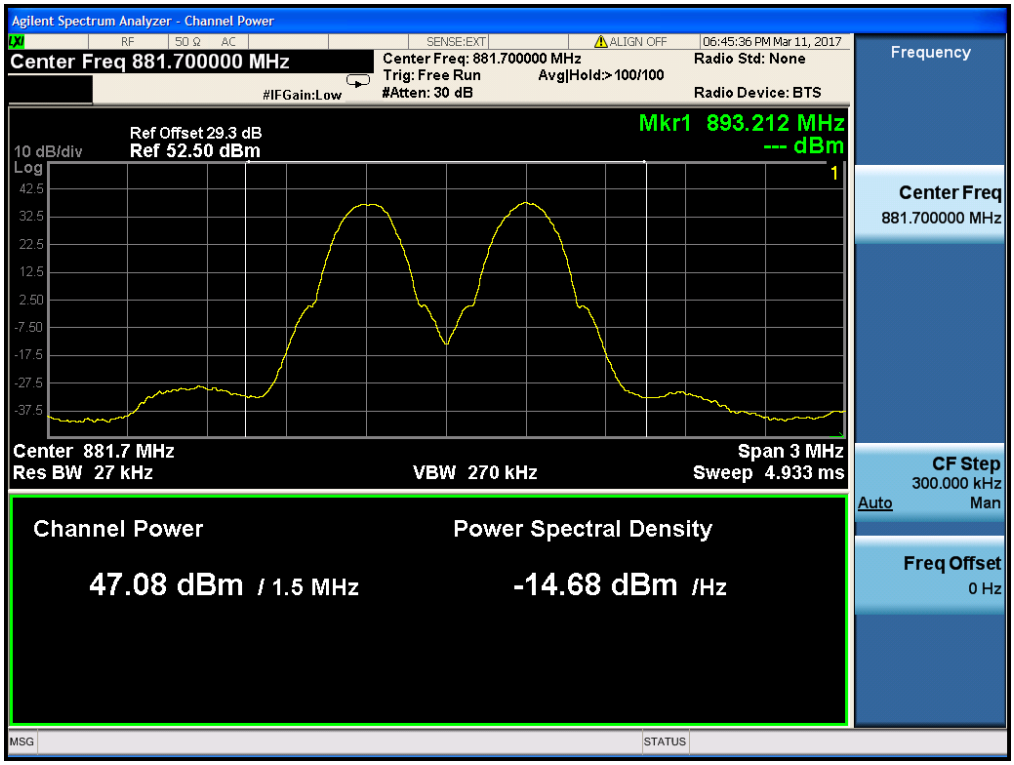

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:45:00 PM Mar 11, 2017
Center Freq 881.700000 MHz
Center Freq: 881.700000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 29.5 dB
10 dB/div
Ref 52.70 dBm
Log
Mkr1 893.212 MHz
--- dBm
42.7
32.7
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
Center 881.7 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Center Freq
881.700000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
Channel Power
47.20 dBm / 1.5 MHz
Power Spectral Density
-14.56 dBm /Hz
MSG
STATUS

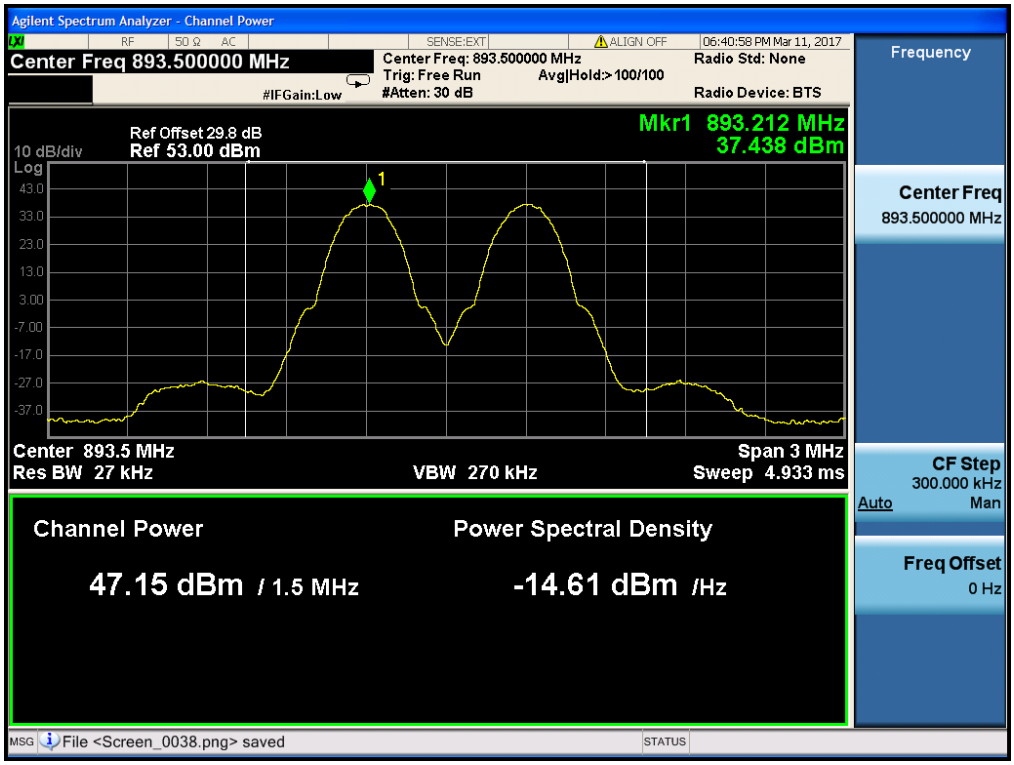


Two carriers Port 4 8PSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
4	8PSK	869.5	869.2/869.8	47.11
		881.7	881.4/882	47.08
		893.5	893.2/893.8	47.15

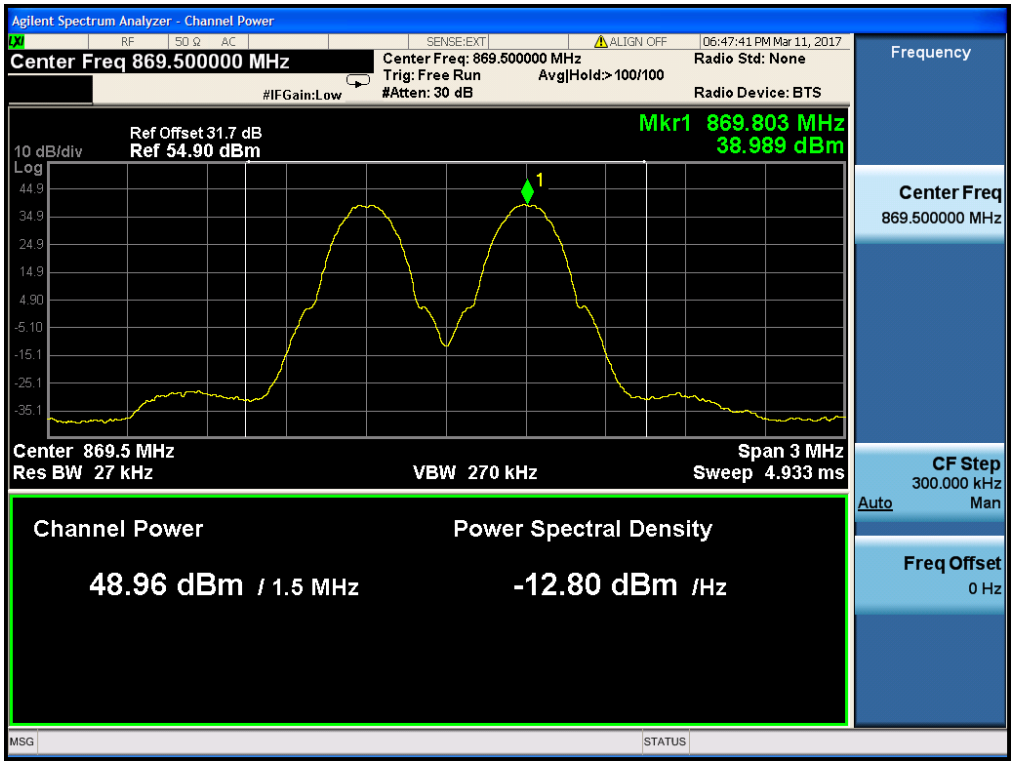

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:47:32 PM Mar 11, 2017
Center Freq 869.500000 MHz
Center Freq: 869.500000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 29.8 dB
10 dB/div
Ref 53.00 dBm
Log
Mkr1 869.803 MHz
37.438 dBm
43.0
33.0
23.0
13.0
3.00
-7.00
-17.0
-27.0
-37.0
Center Freq
869.500000 MHz
Center 869.5 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
CF Step
300.000 kHz
Auto
Man
Channel Power
47.11 dBm / 1.5 MHz
Power Spectral Density
-14.65 dBm /Hz
Freq Offset
0 Hz
MSG
File <Screen_0046.png> saved
STATUS

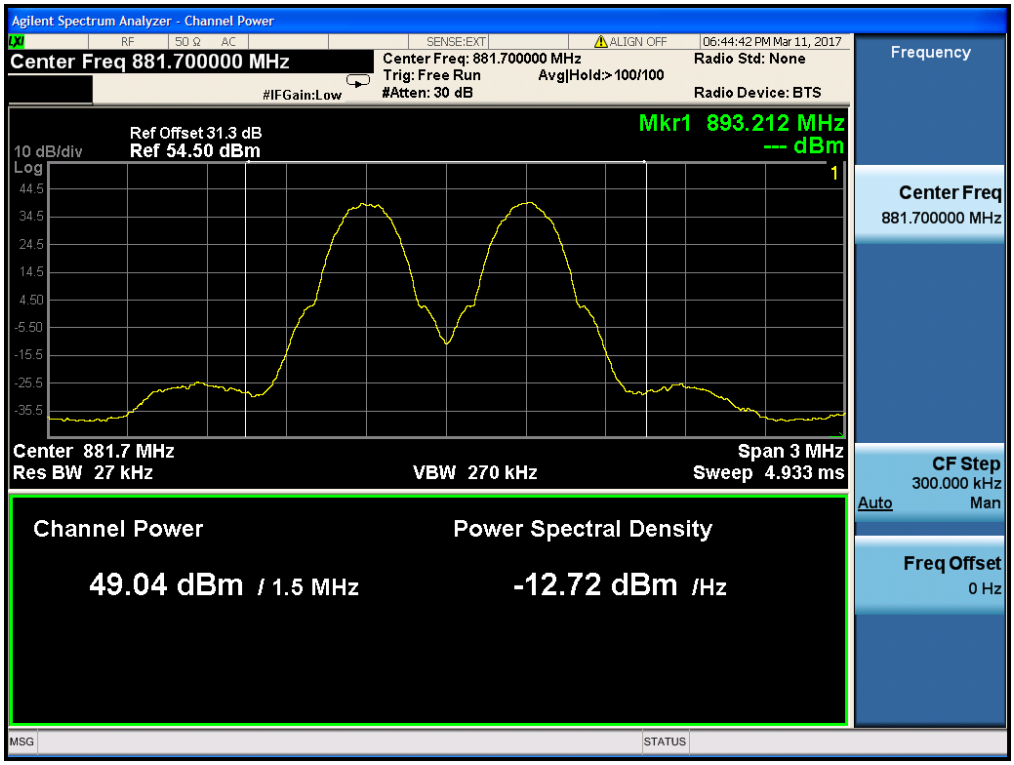

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:45:36 PM Mar 11, 2017
Center Freq 881.700000 MHz
Center Freq: 881.700000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 29.3 dB
10 dB/div
Ref 52.50 dBm
Log
Mkr1 893.212 MHz
--- dBm
42.5
32.5
22.5
12.5
2.50
-7.50
-17.5
-27.5
-37.5
Center Freq
881.700000 MHz
Center 881.7 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
CF Step
300.000 kHz
Auto
Man
Channel Power
47.08 dBm / 1.5 MHz
Power Spectral Density
-14.68 dBm /Hz
Freq Offset
0 Hz
MSG
STATUS

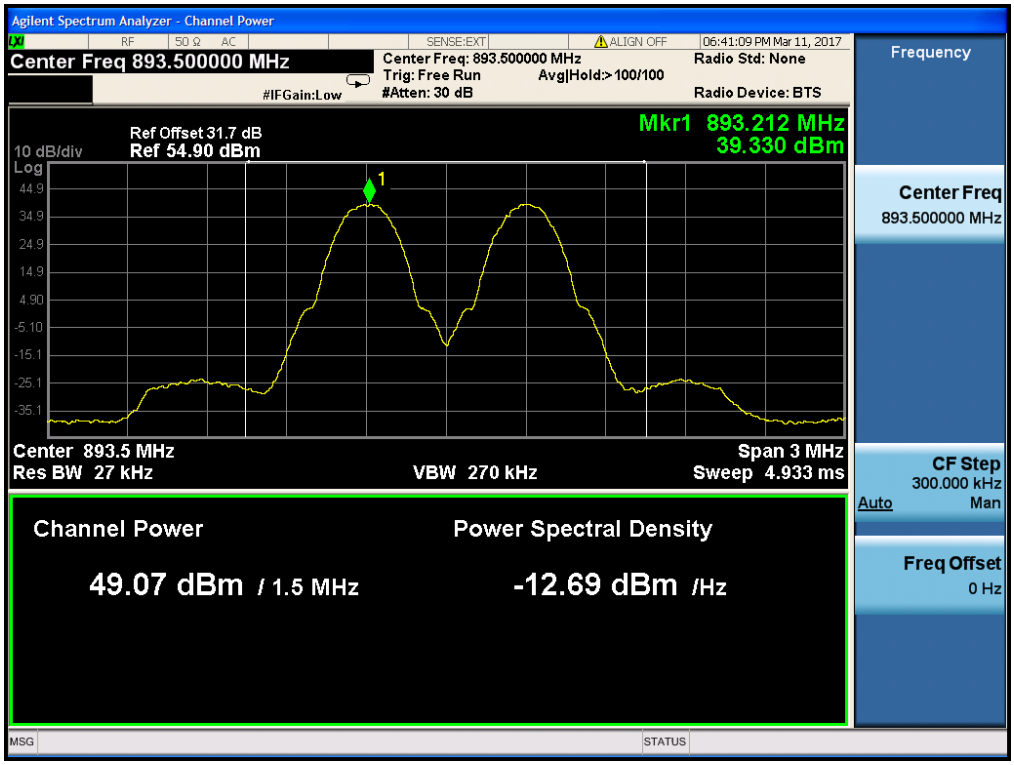


Two carriers Port 1 GMSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
1	GMSK	869.5	869.2/869.8	48.96
		881.7	881.4/882	49.04
		893.5	893.2/893.8	49.07

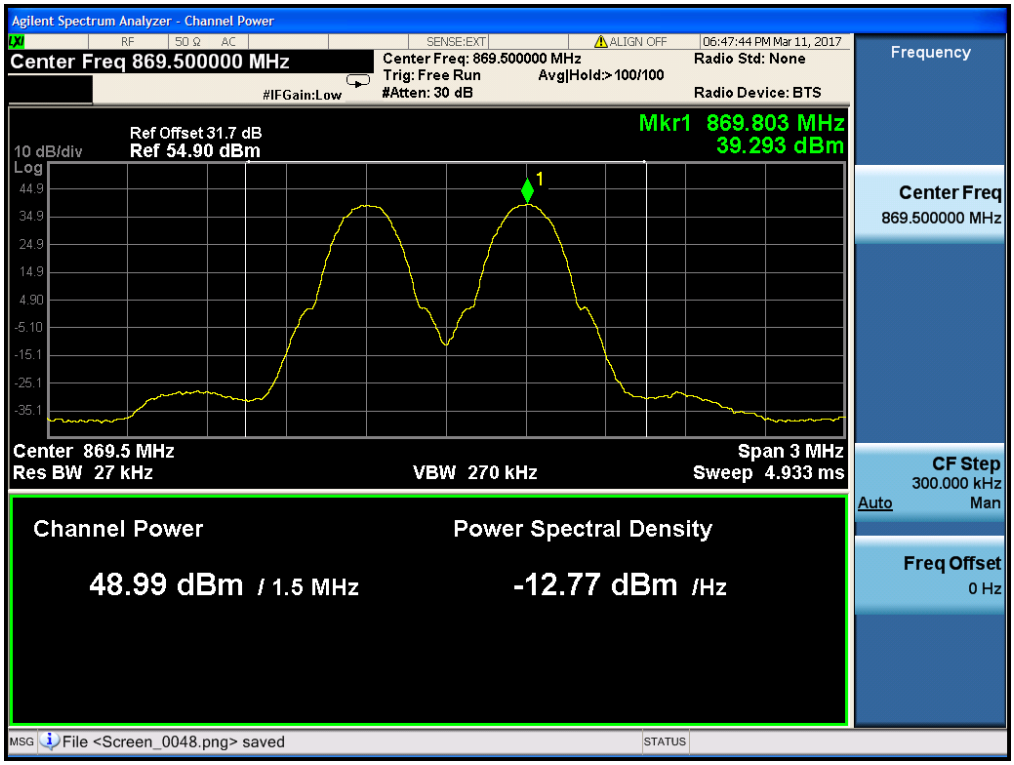

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:47:41 PM Mar 11, 2017
Center Freq 869.500000 MHz
Center Freq: 869.500000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.7 dB
10 dB/div
Ref 54.90 dBm
Log
Mkr1 869.803 MHz
38.989 dBm
44.9
34.9
24.9
14.9
4.90
-5.10
-15.1
-25.1
-35.1
Center 869.5 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
48.96 dBm / 1.5 MHz
Power Spectral Density
-12.80 dBm /Hz
Center Freq
869.500000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

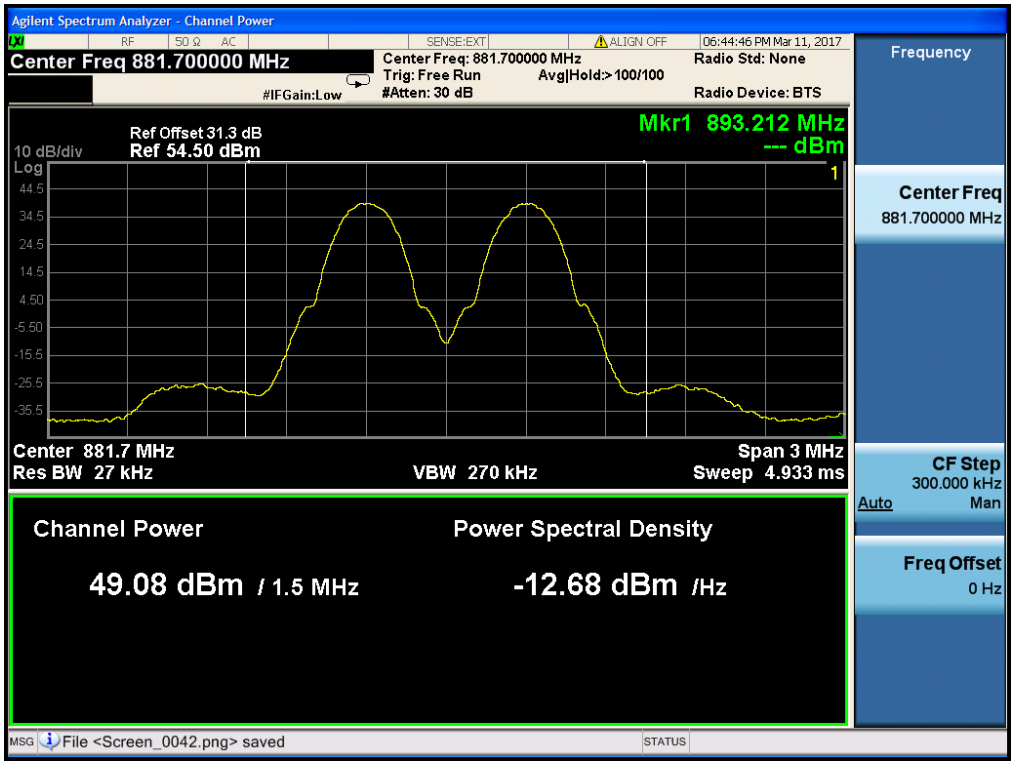

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:44:42 PM Mar 11, 2017
Center Freq 881.700000 MHz
Center Freq: 881.700000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.3 dB
10 dB/div
Ref 54.50 dBm
Log
Mkr1 893.212 MHz
--- dBm
44.5
34.5
24.5
14.5
4.50
-5.50
-15.5
-25.5
-35.5
Center 881.7 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
49.04 dBm / 1.5 MHz
Power Spectral Density
-12.72 dBm /Hz
Center Freq
881.700000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

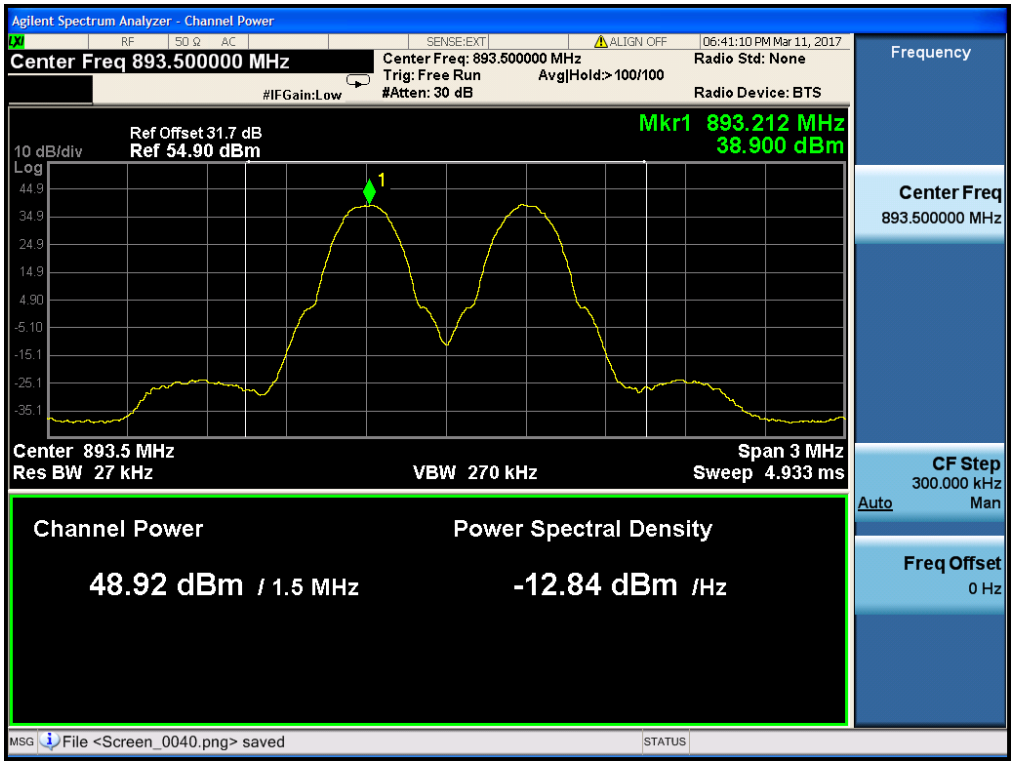


Two carriers Port 4 GMSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
4	GMSK	869.5	869.2/869.8	48.99
		881.7	881.4/882	49.08
		893.5	893.2/893.8	48.92

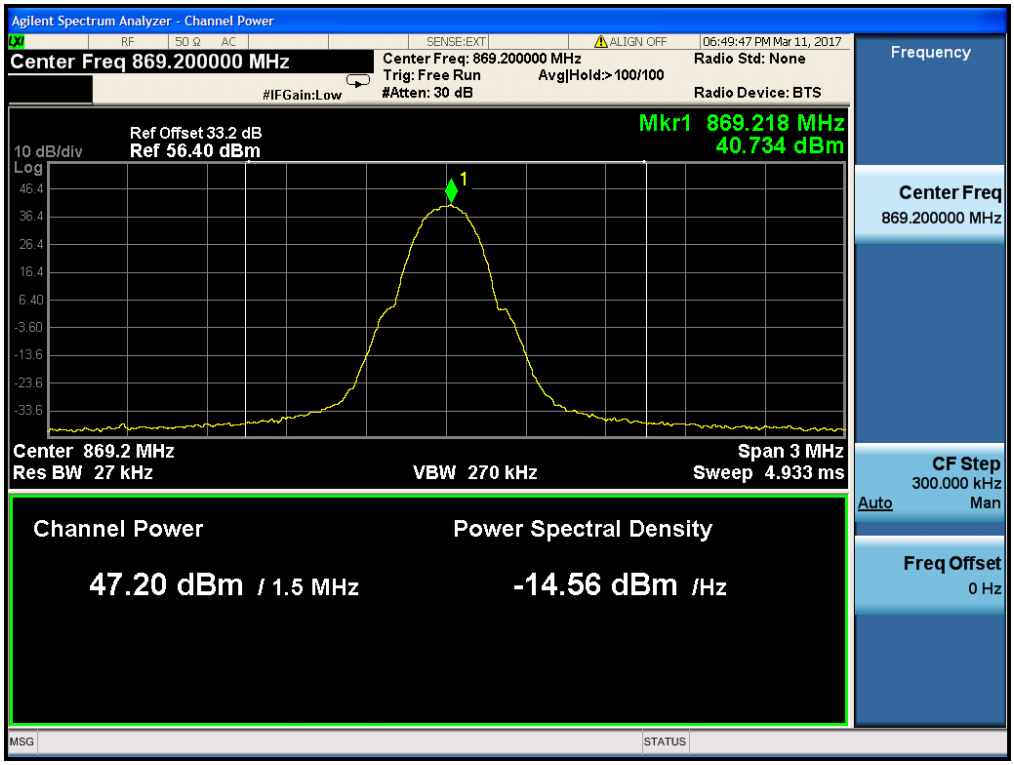

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:47:44 PM Mar 11, 2017
Center Freq 869.500000 MHz
Center Freq: 869.500000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.7 dB
10 dB/div
Ref 54.90 dBm
Log
Mkr1 869.803 MHz
39.293 dBm
44.9
34.9
24.9
14.9
4.90
-5.10
-15.1
-25.1
-35.1
Center 869.5 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
48.99 dBm / 1.5 MHz
Power Spectral Density
-12.77 dBm /Hz
Center Freq
869.500000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
File <Screen_0048.png> saved
STATUS

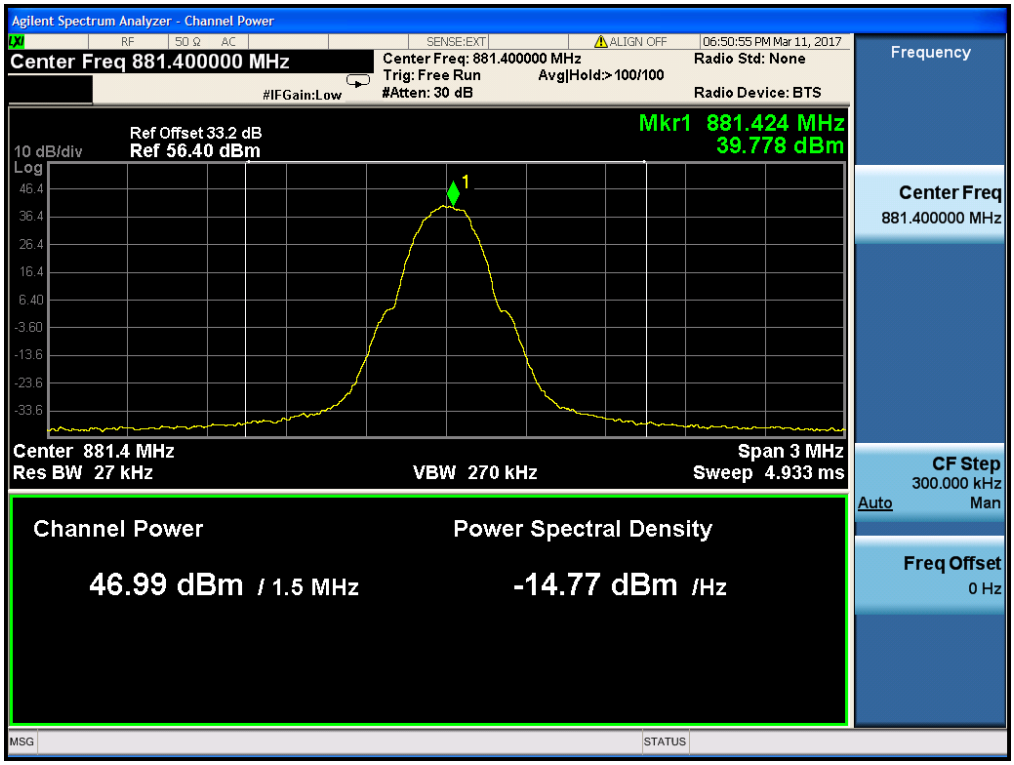

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:44:46 PM Mar 11, 2017
Center Freq 881.700000 MHz
Center Freq: 881.700000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 31.3 dB
10 dB/div
Ref 54.50 dBm
Log
Mkr1 893.212 MHz
--- dBm
44.5
34.5
24.5
14.5
4.50
-5.50
-15.5
-25.5
-35.5
Center 881.7 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
49.08 dBm / 1.5 MHz
Power Spectral Density
-12.68 dBm /Hz
Center Freq
881.700000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
File <Screen_0042.png> saved
STATUS

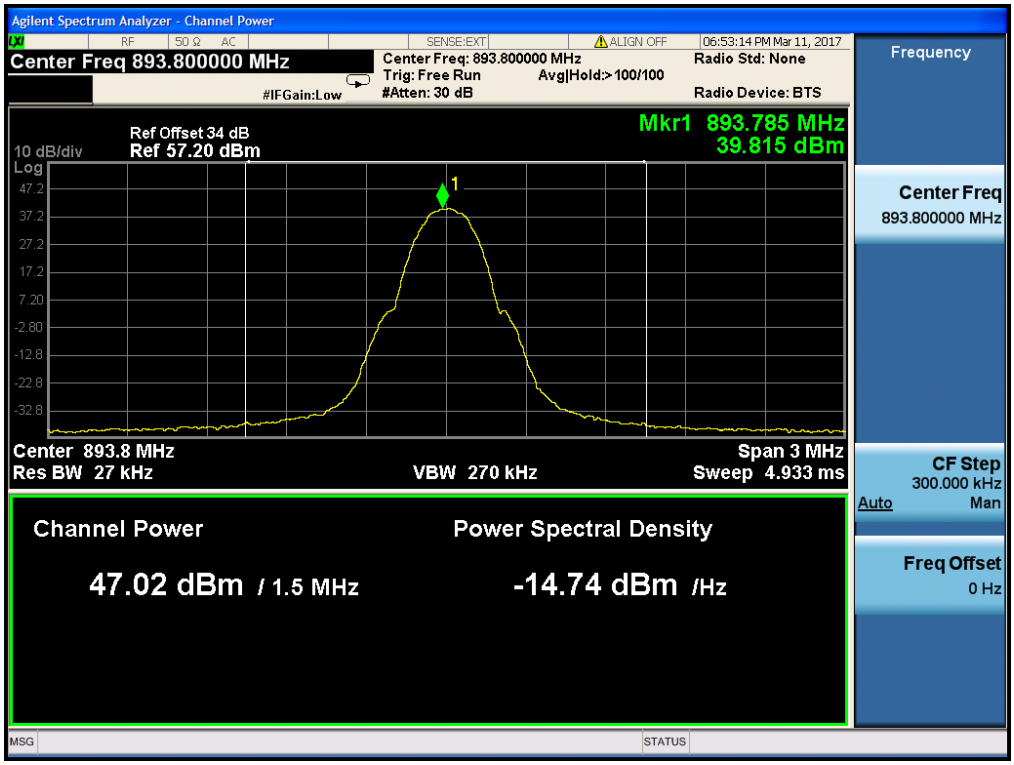


One carrier Port 1 8PSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
1	8PSK	869.2	869.2	47.2
		881.4	881.4	46.99
		893.8	893.8	47.02

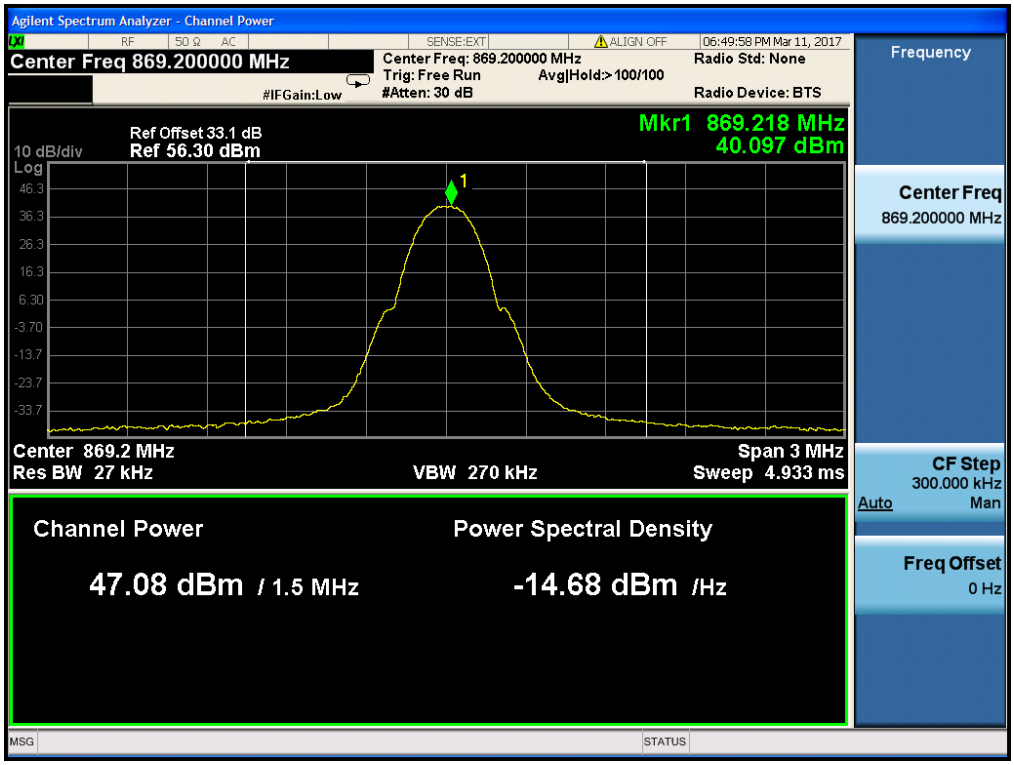

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:49:47 PM Mar 11, 2017
Center Freq 869.200000 MHz
Center Freq: 869.200000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 33.2 dB
10 dB/div
Ref 56.40 dBm
Log
Mkr1 869.218 MHz
40.734 dBm
46.4
36.4
26.4
16.4
6.40
-3.60
-13.6
-23.6
-33.6
Center 869.2 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
47.20 dBm / 1.5 MHz
Power Spectral Density
-14.56 dBm /Hz
Center Freq
869.200000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

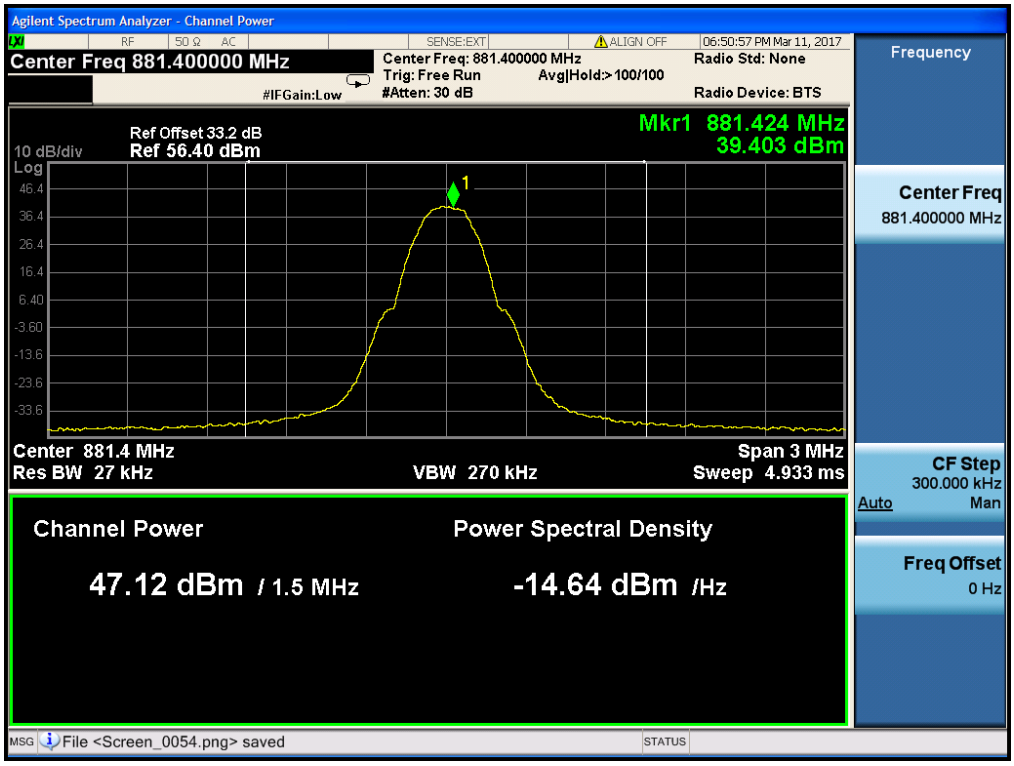

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:50:55 PM Mar 11, 2017
Center Freq 881.400000 MHz
Center Freq: 881.400000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 33.2 dB
10 dB/div
Ref 56.40 dBm
Log
Mkr1 881.424 MHz
39.778 dBm
46.4
36.4
26.4
16.4
6.40
-3.60
-13.6
-23.6
-33.6
Center 881.4 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
46.99 dBm / 1.5 MHz
Power Spectral Density
-14.77 dBm /Hz
Center Freq
881.400000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

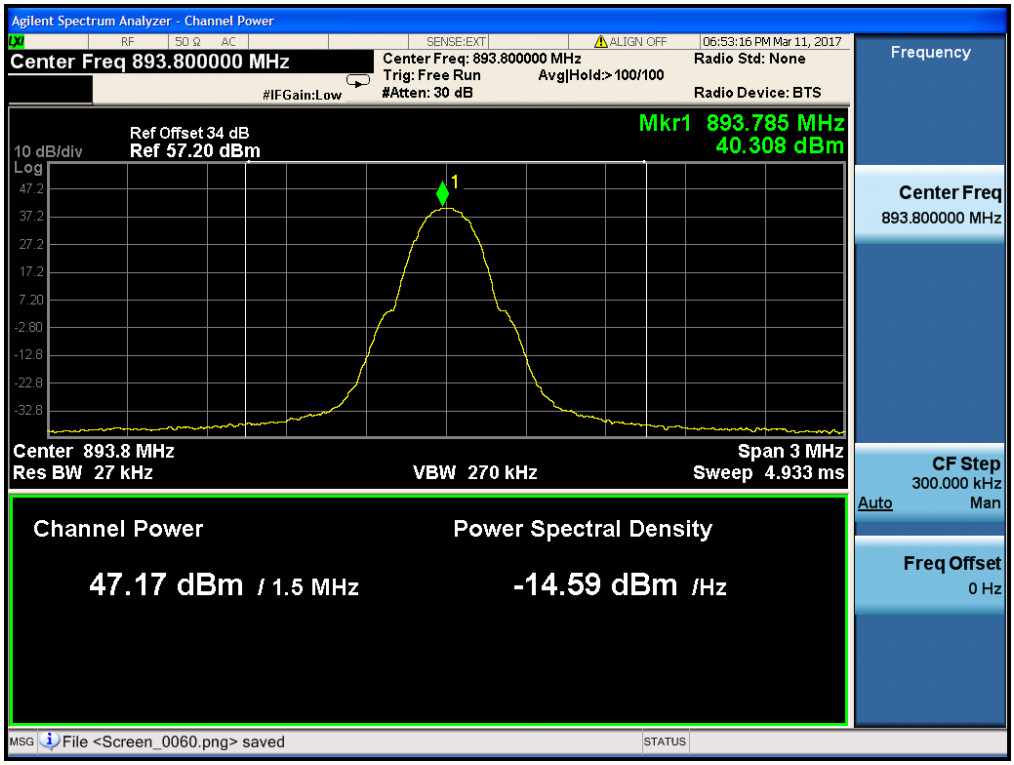


One carrier Port 4 8PSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
4	8PSK	869.2	869.2	47.08
		881.4	881.4	47.12
		893.8	893.8	47.17

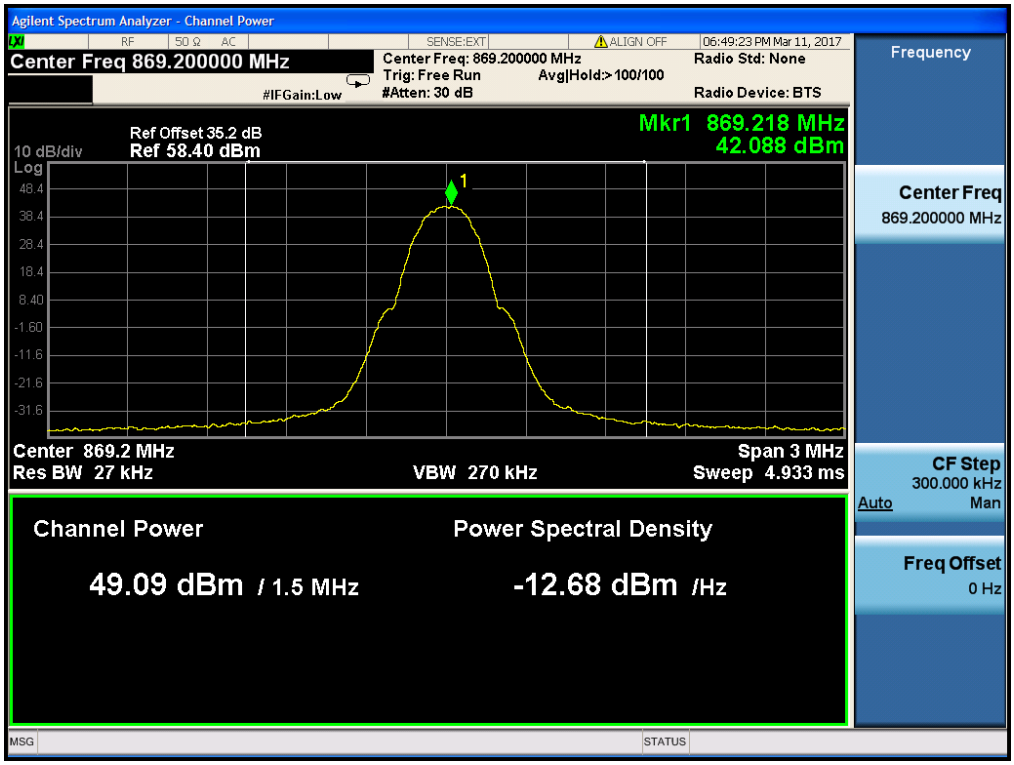

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:49:58 PM Mar 11, 2017
Center Freq 869.200000 MHz
Center Freq: 869.200000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 33.1 dB
10 dB/div
Ref 56.30 dBm
Log
Mkr1 869.218 MHz
40.097 dBm
46.3
36.3
26.3
16.3
6.30
-3.70
-13.7
-23.7
-33.7
Center 869.2 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
47.08 dBm / 1.5 MHz
Power Spectral Density
-14.68 dBm /Hz
Center Freq
869.200000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

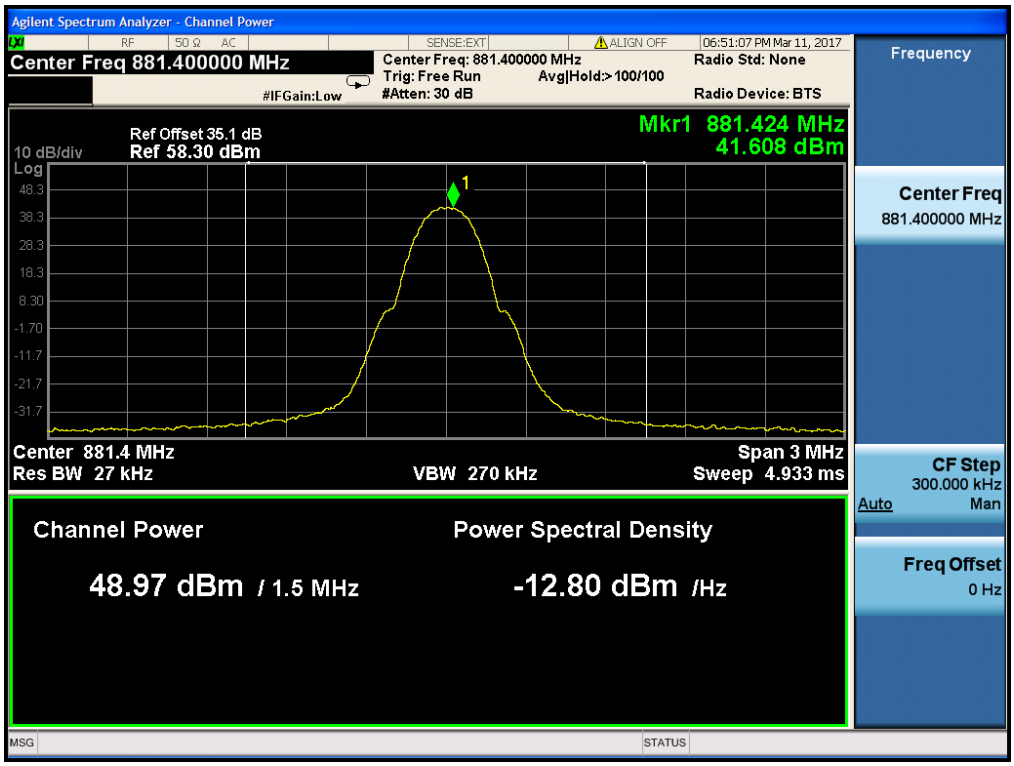

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:50:57 PM Mar 11, 2017
Center Freq 881.400000 MHz
Center Freq: 881.400000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 33.2 dB
10 dB/div
Ref 56.40 dBm
Log
Mkr1 881.424 MHz
39.403 dBm
46.4
36.4
26.4
16.4
6.40
-3.60
-13.6
-23.6
-33.6
Center 881.4 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
47.12 dBm / 1.5 MHz
Power Spectral Density
-14.64 dBm /Hz
Center Freq
881.400000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
File <Screen_0054.png> saved
STATUS

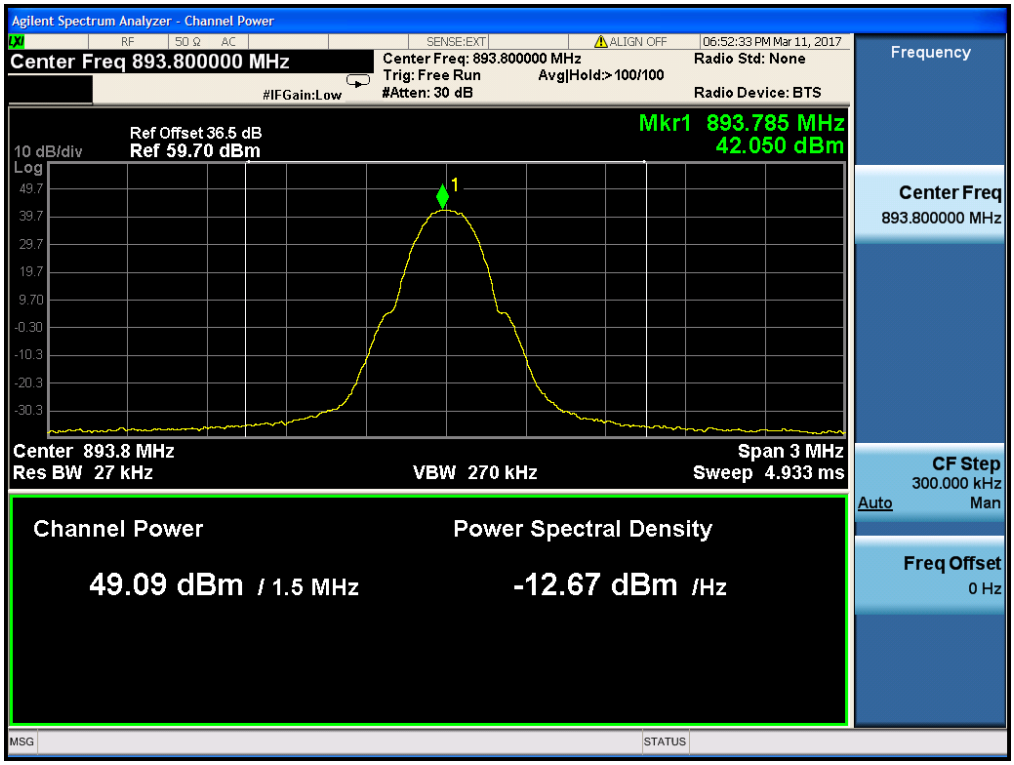


One carrier Port 1 GMSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
1	GMSK	869.2	869.2	49.09
		881.4	881.4	48.97
		893.8	893.8	49.09

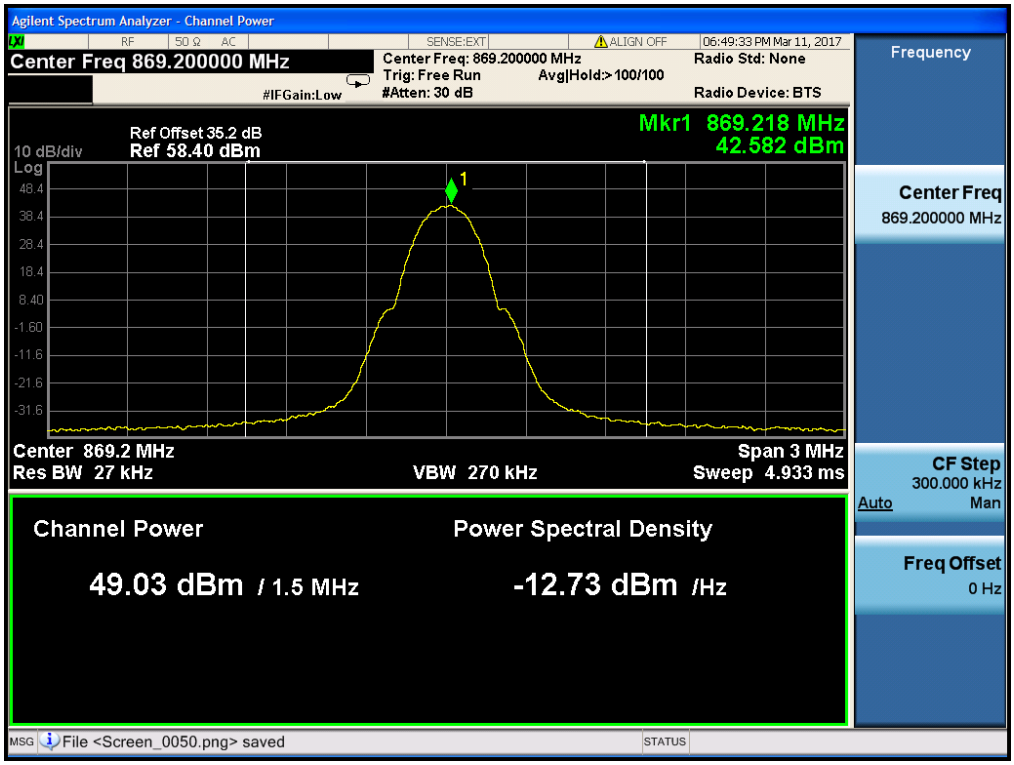

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:49:23 PM Mar 11, 2017
Center Freq 869.200000 MHz
Center Freq: 869.200000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 35.2 dB
10 dB/div
Ref 58.40 dBm
Log
Mkr1 869.218 MHz
42.088 dBm
48.4
38.4
28.4
18.4
8.40
-1.60
-11.6
-21.6
-31.6
Center 869.2 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
49.09 dBm / 1.5 MHz
Power Spectral Density
-12.68 dBm /Hz
Center Freq
869.200000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

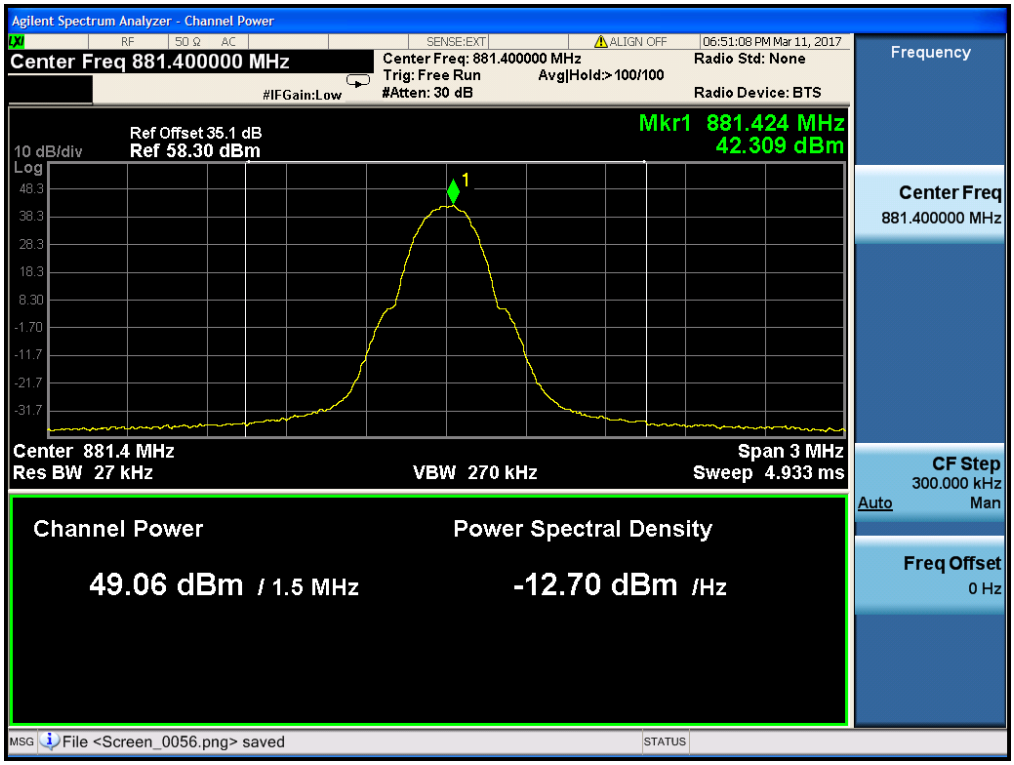

Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:51:07 PM Mar 11, 2017
Center Freq 881.400000 MHz
Center Freq: 881.400000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 35.1 dB
10 dB/div
Ref 58.30 dBm
Log
Mkr1 881.424 MHz
41.608 dBm
48.3
38.3
28.3
18.3
8.30
-1.70
-11.7
-21.7
-31.7
Center 881.4 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
48.97 dBm / 1.5 MHz
Power Spectral Density
-12.80 dBm /Hz
Center Freq
881.400000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

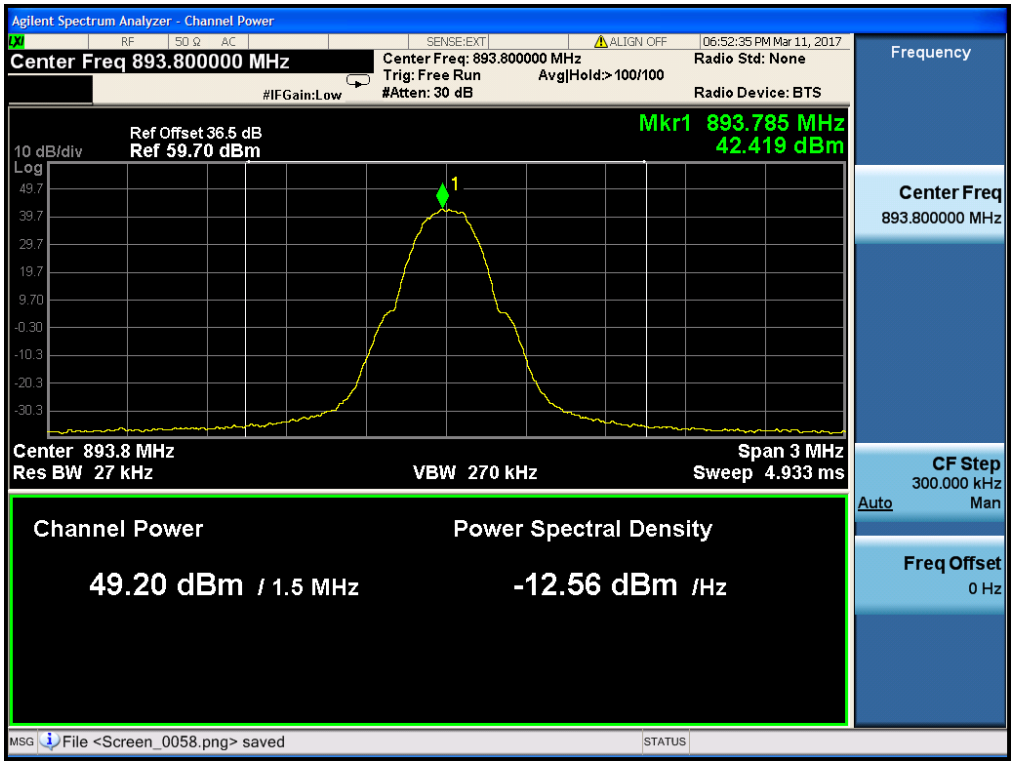


One carrier Port 4 GMSK

Port	modulation	Center Freq. (MHz)	Frequency (MHz)	Max output Power in dBm
4	GMSK	869.2	869.2	49.03
		881.4	881.4	49.06
		893.8	893.8	49.2


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:49:33 PM Mar 11, 2017
Center Freq 869.200000 MHz
Center Freq: 869.200000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 35.2 dB
10 dB/div
Ref 58.40 dBm
Log
Mkr1 869.218 MHz
42.582 dBm
48.4
38.4
28.4
18.4
8.40
-1.60
-11.6
-21.6
-31.6
Center 869.2 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
49.03 dBm / 1.5 MHz
Power Spectral Density
-12.73 dBm /Hz
Center Freq
869.200000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
File <Screen_0050.png> saved
STATUS


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:51:08 PM Mar 11, 2017
Center Freq 881.400000 MHz
Center Freq: 881.400000 MHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 35.1 dB
10 dB/div
Ref 58.30 dBm
Log
Mkr1 881.424 MHz
42.309 dBm
48.3
38.3
28.3
18.3
8.30
-1.70
-11.7
-21.7
-31.7
Center 881.4 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
Channel Power
49.06 dBm / 1.5 MHz
Power Spectral Density
-12.70 dBm /Hz
Center Freq
881.400000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
File <Screen_0056.png> saved
STATUS


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:EXT
ALIGN OFF
06:52:35 PM Mar 11, 2017
Center Freq 893.800000 MHz
Center Freq: 893.800000 MHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 36.5 dB
10 dB/div
Ref 59.70 dBm
Log
Mkr1 893.785 MHz
42.419 dBm
49.7
39.7
29.7
19.7
9.70
-0.30
-10.3
-20.3
-30.3
Center Freq
893.800000 MHz
Center 893.8 MHz
Res BW 27 kHz
VBW 270 kHz
Span 3 MHz
Sweep 4.933 ms
CF Step
300.000 kHz
Auto
Man
Channel Power
49.20 dBm / 1.5 MHz
Power Spectral Density
-12.56 dBm /Hz
Freq Offset
0 Hz
MSG
File <Screen_0058.png> saved
STATUS

7 RF EXPLOSURE

7.1 Applicable standard: FCC §2.1091 and §1.1037

7.2 Limit

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated. Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

7.3 Test Data

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01
$S = EIRP/ 4\pi R^2$
Where: S = power density
R = distance to the center of radiation of the antenna= $[EIRP /4\pi S]^{1/2}$

According to §22.913, the the effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 1000 Watts.
Frequency 869MHz is between 300MHz and 1500MHz, and the Maximum S=f/1500(mW/cm2)

⇨ R=4.75m.

This equipment should be installed and operated with minimum distance 4.75m between the radiator& your body.

7.4 Test Result: pass

8 MODULATION CHARACTERISTIC

8.1 Applicable Standard: FCC §2.1047

8.2 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY52090451	2016-3-15	2017-3-15
DTS	DTS100 40dB Attenuator	DTS100-40dB-N	N/A	N/A	N/A
Hewlett Packard	Hewlett Packard RF Cable	8120-6192	01428251	N/A	N/A

*__statement of traceability:__ ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements , traceable to NIST.

8.3 Test Procedure

GSM digital mode is used by EUT.

8.4 Test Data Environmental Conditions

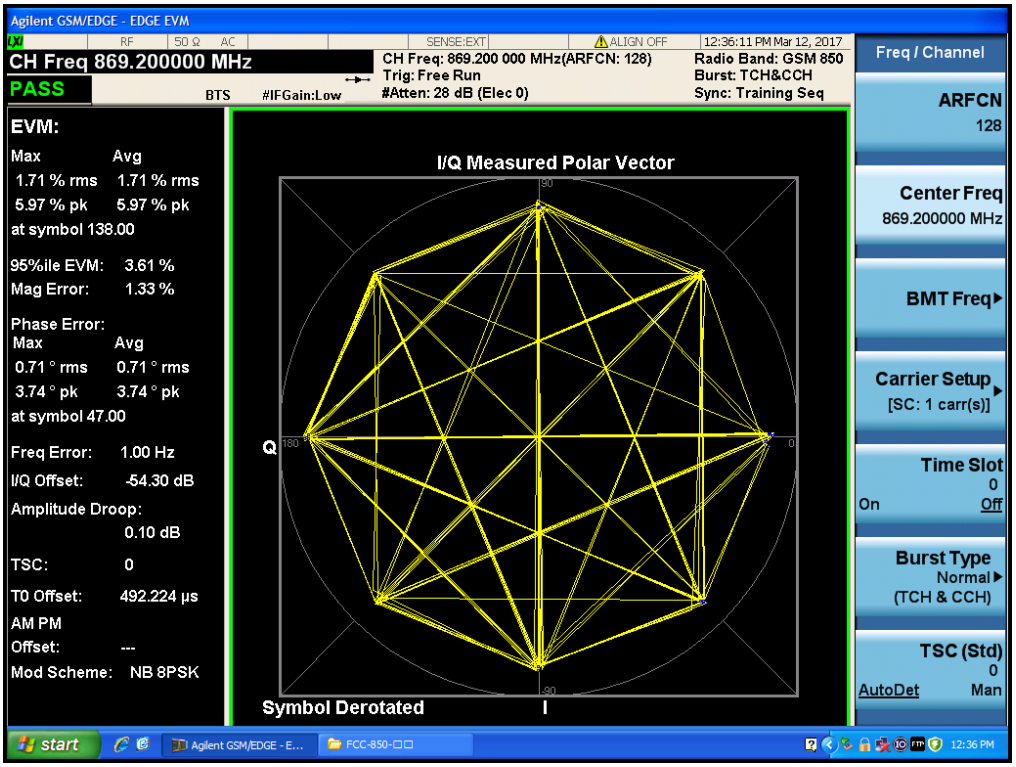
Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

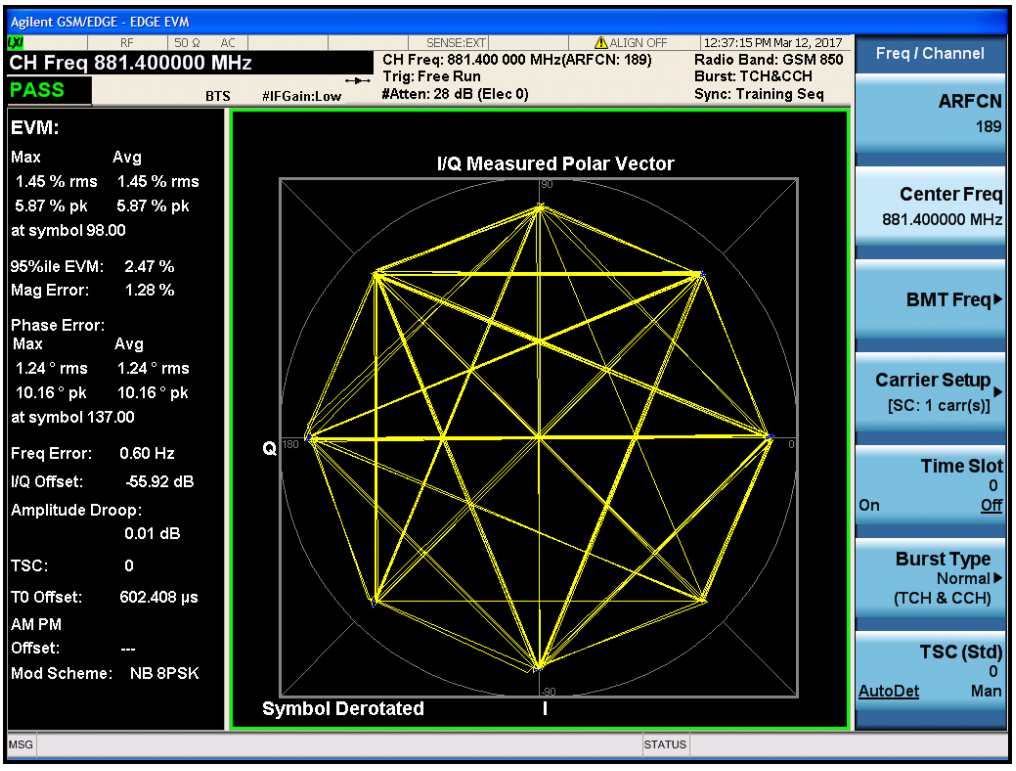
8.5 Test Result: Pass

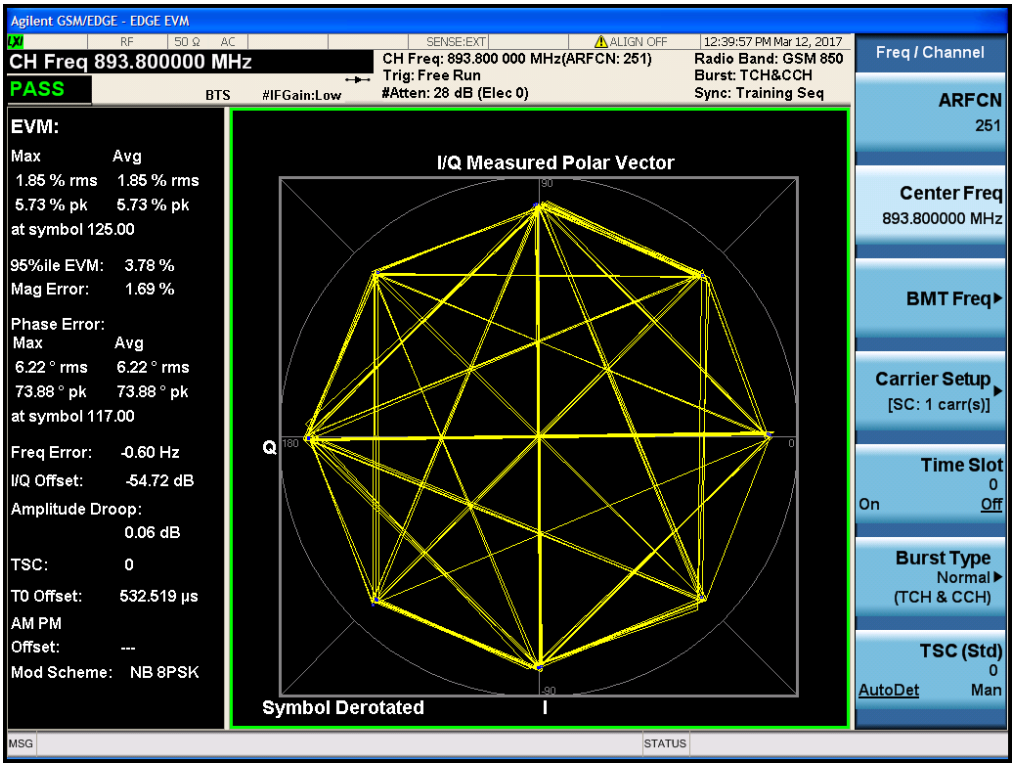
8.6 Test Mode: Transmitting GSM

8.7 Test Data

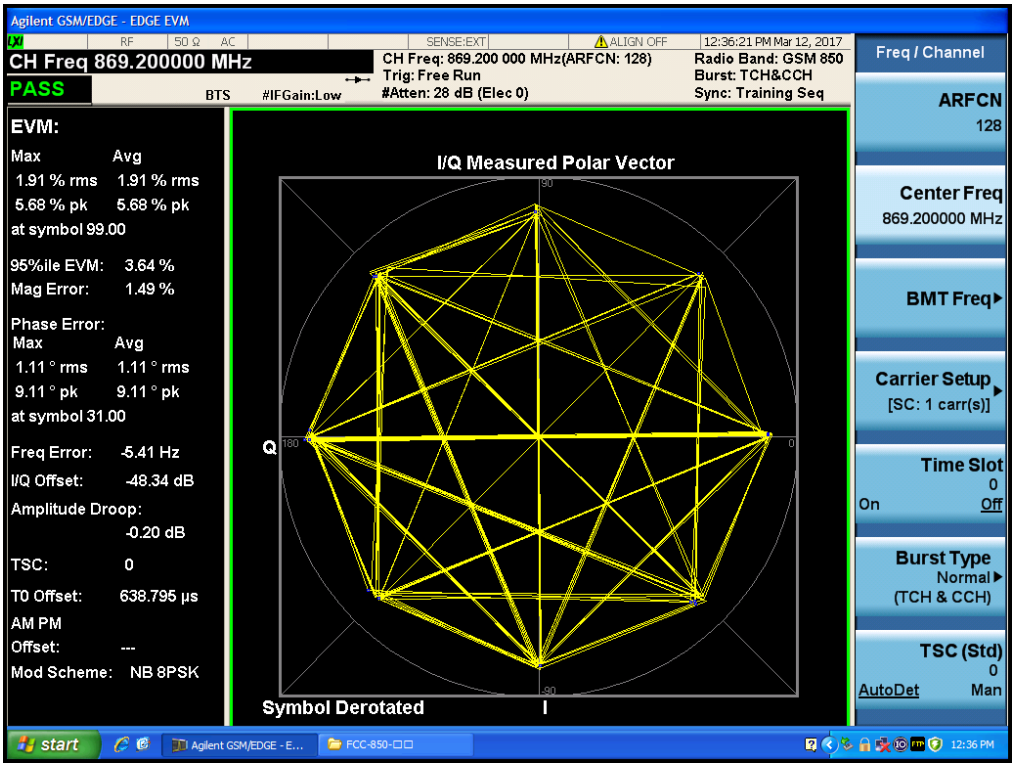
Port	Modulation	Frequency (MHz)	EVM
1	8PSK	869.2	3.61%
		881.4	2.47%
		893.8	3.78%

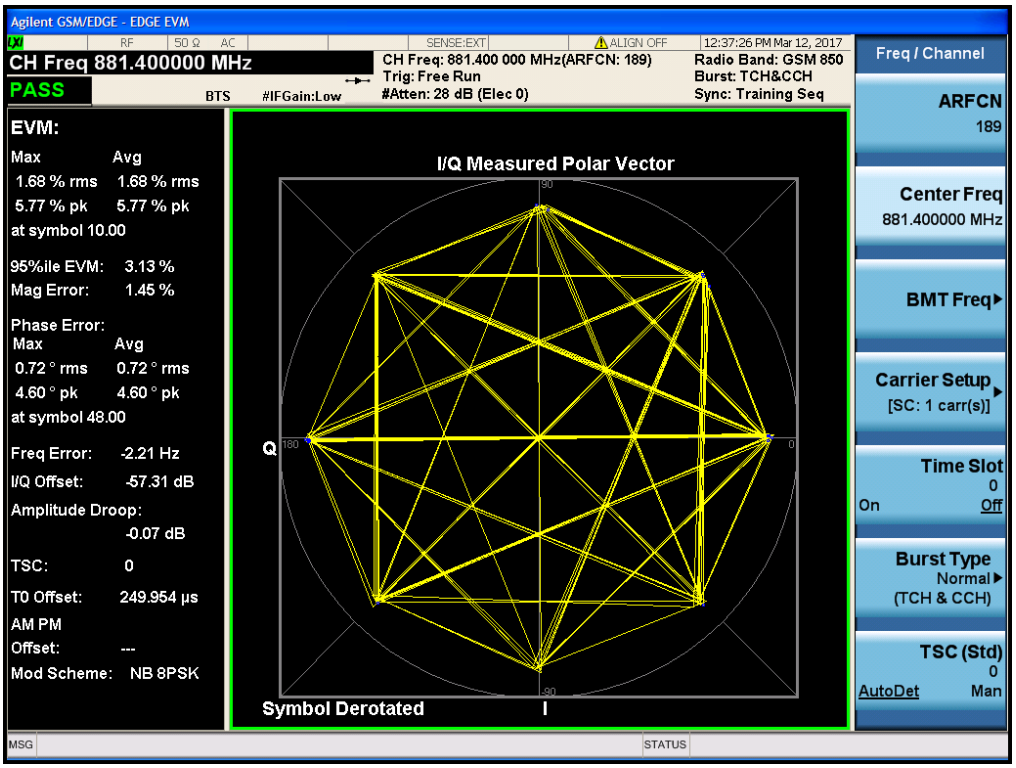

Agilent GSM/EDGE - EDGE EVM
CH Freq 869.200000 MHz
PASS
BTS #IFGain:Low
CH Freq: 869.200 000 MHz(ARFCN: 128)
Trig: Free Run
#Atten: 28 dB (Elec 0)
Radio Band: GSM 850
Burst: TCH&CCH
Sync: Training Seq
12:36:11 PM Mar 12, 2017
EVM:
Max Avg
1.71 % rms 1.71 % rms
5.97 % pk 5.97 % pk
at symbol 138.00
95%ile EVM: 3.61 %
Mag Error: 1.33 %
Phase Error:
Max Avg
0.71 ° rms 0.71 ° rms
3.74 ° pk 3.74 ° pk
at symbol 47.00
Freq Error: 1.00 Hz
I/Q Offset: -54.30 dB
Amplitude Droop: 0.10 dB
TSC: 0
T0 Offset: 492.224 µs
AM PM Offset: ---
Mod Scheme: NB 8PSK
I/Q Measured Polar Vector
Symbol Derotated
Freq / Channel
ARFCN 128
Center Freq 869.200000 MHz
BMT Freq
Carrier Setup [SC: 1 carr(s)]
Time Slot 0 On Off
Burst Type Normal (TCH & CCH)
TSC (Std) 0 AutoDet Man

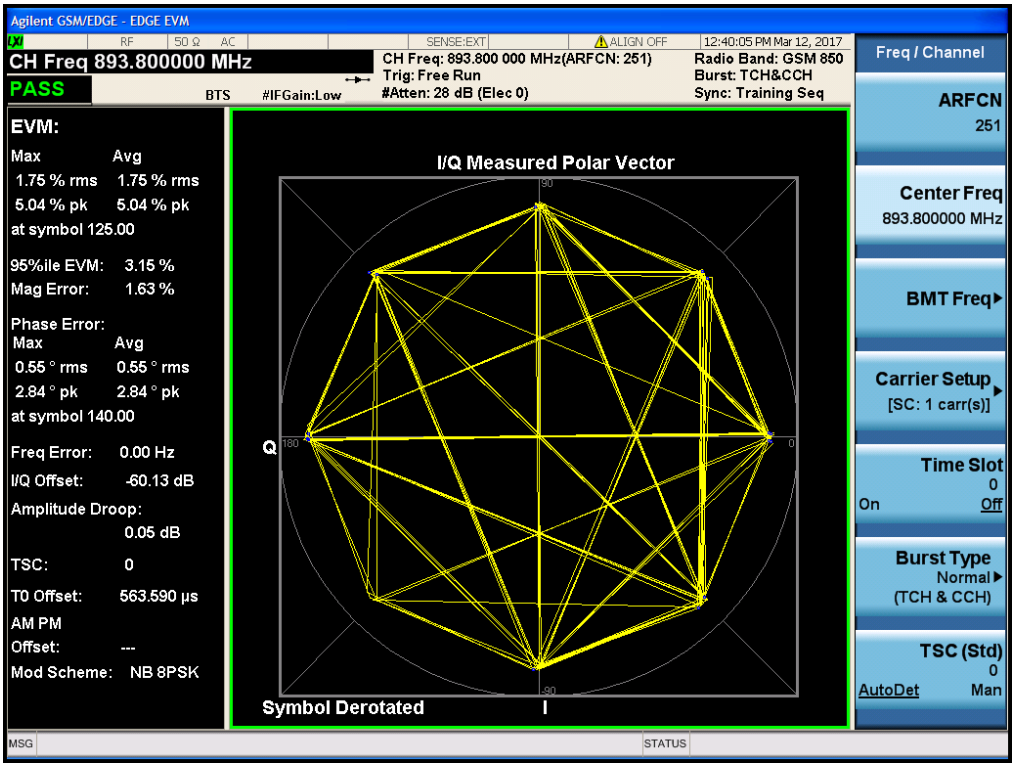

Agilent GSM/EDGE - EDGE EVM
CH Freq 881.400000 MHz
PASS
BTS #IFGain:Low
CH Freq: 881.400 000 MHz(ARFCN: 189)
Trig: Free Run
#Atten: 28 dB (Elec 0)
Radio Band: GSM 850
Burst: TCH&CCH
Sync: Training Seq
12:37:15 PM Mar 12, 2017
EVM:
Max Avg
1.45 % rms 1.45 % rms
5.87 % pk 5.87 % pk
at symbol 98.00
95%ile EVM: 2.47 %
Mag Error: 1.28 %
Phase Error:
Max Avg
1.24 ° rms 1.24 ° rms
10.16 ° pk 10.16 ° pk
at symbol 137.00
Freq Error: 0.60 Hz
I/Q Offset: -55.92 dB
Amplitude Droop: 0.01 dB
TSC: 0
T0 Offset: 602.408 µs
AM PM Offset: ---
Mod Scheme: NB 8PSK
I/Q Measured Polar Vector
Symbol Derotated
Freq / Channel
ARFCN 189
Center Freq 881.400000 MHz
BMT Freq
Carrier Setup [SC: 1 carr(s)]
Time Slot 0 On Off
Burst Type Normal (TCH & CCH)
TSC (Std) 0 AutoDet Man
MSG
STATUS



Port	Modulation	Frequency (MHz)	EVM
4	8PSK	869.2	3.64%
		881.4	3.13%
		893.8	3.15%


Agilent GSM/EDGE - EDGE EVM
CH Freq 869.200000 MHz
PASS
CH Freq: 869.200 000 MHz(ARFCN: 128)
Trig: Free Run
#Atten: 28 dB (Elec 0)
Radio Band: GSM 850
Burst: TCH&CCH
Sync: Training Seq
EVM:
Max Avg
1.91 % rms 1.91 % rms
5.68 % pk 5.68 % pk
at symbol 99.00
95%ile EVM: 3.64 %
Mag Error: 1.49 %
Phase Error:
Max Avg
1.11 ° rms 1.11 ° rms
9.11 ° pk 9.11 ° pk
at symbol 31.00
Freq Error: -5.41 Hz
I/Q Offset: -48.34 dB
Amplitude Droop: -0.20 dB
TSC: 0
T0 Offset: 638.795 µs
AM PM Offset: ---
Mod Scheme: NB 8PSK
I/Q Measured Polar Vector
Symbol Derotated
Freq / Channel
ARFCN 128
Center Freq 869.200000 MHz
BMT Freq
Carrier Setup [SC: 1 carr(s)]
Time Slot 0
On Off
Burst Type Normal (TCH & CCH)
TSC (Std) 0
AutoDet Man


Agilent GSM/EDGE - EDGE EVM
CH Freq 881.400000 MHz
PASS
CH Freq: 881.400 000 MHz(ARFCN: 189)
Trig: Free Run
#Atten: 28 dB (Elec 0)
Radio Band: GSM 850
Burst: TCH&CCH
Sync: Training Seq
EVM:
Max Avg
1.68 % rms 1.68 % rms
5.77 % pk 5.77 % pk
at symbol 10.00
95%ile EVM: 3.13 %
Mag Error: 1.45 %
Phase Error:
Max Avg
0.72 ° rms 0.72 ° rms
4.60 ° pk 4.60 ° pk
at symbol 48.00
Freq Error: -2.21 Hz
I/Q Offset: -57.31 dB
Amplitude Droop: -0.07 dB
TSC: 0
T0 Offset: 249.954 µs
AM PM Offset: ---
Mod Scheme: NB 8PSK
I/Q Measured Polar Vector
Symbol Derotated
Freq / Channel
ARFCN 189
Center Freq 881.400000 MHz
BMT Freq
Carrier Setup [SC: 1 carr(s)]
Time Slot 0
On Off
Burst Type Normal (TCH & CCH)
TSC (Std) 0
AutoDet Man



Port	Modulation	Frequency (MHz)	Phase Error(°)	Frequency Error(Hz)
1	GMSK	869.2	0.51	0.51
		881.4	0.47	0.57
		893.8	0.44	-0.77