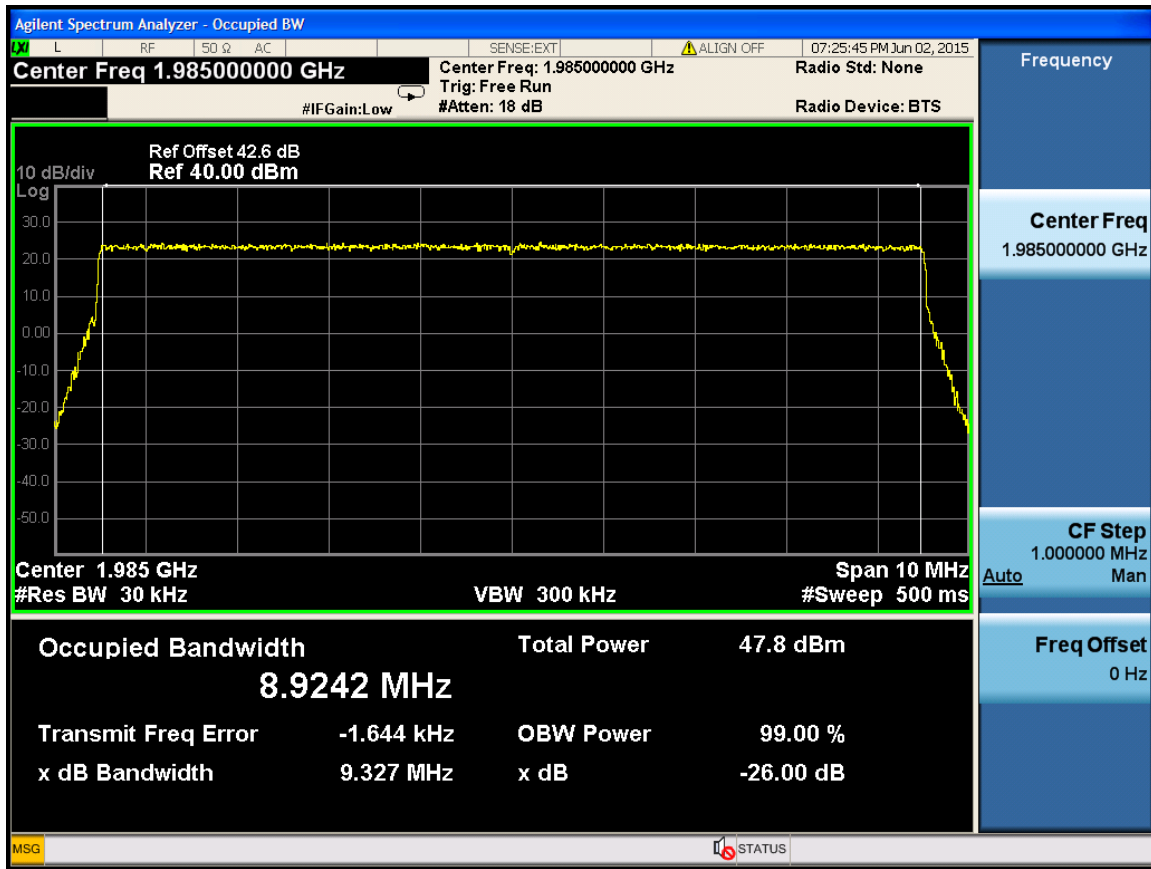
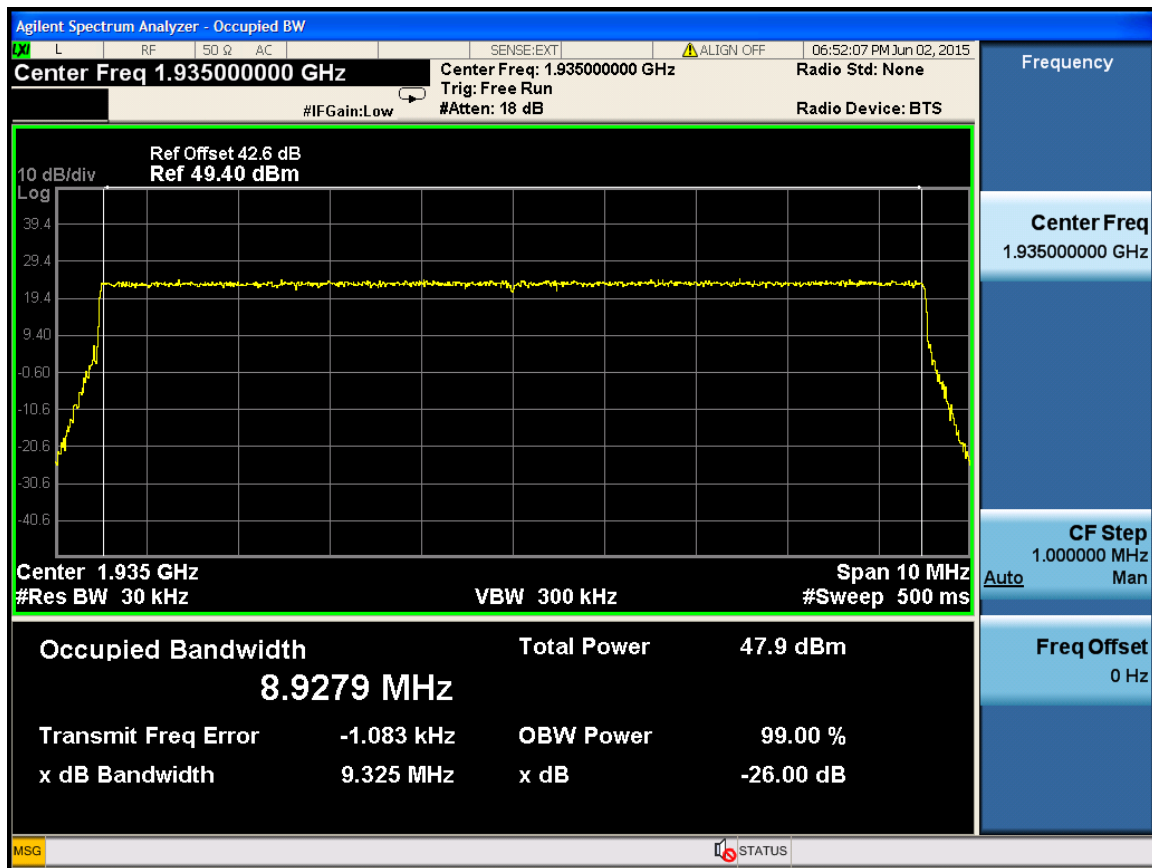
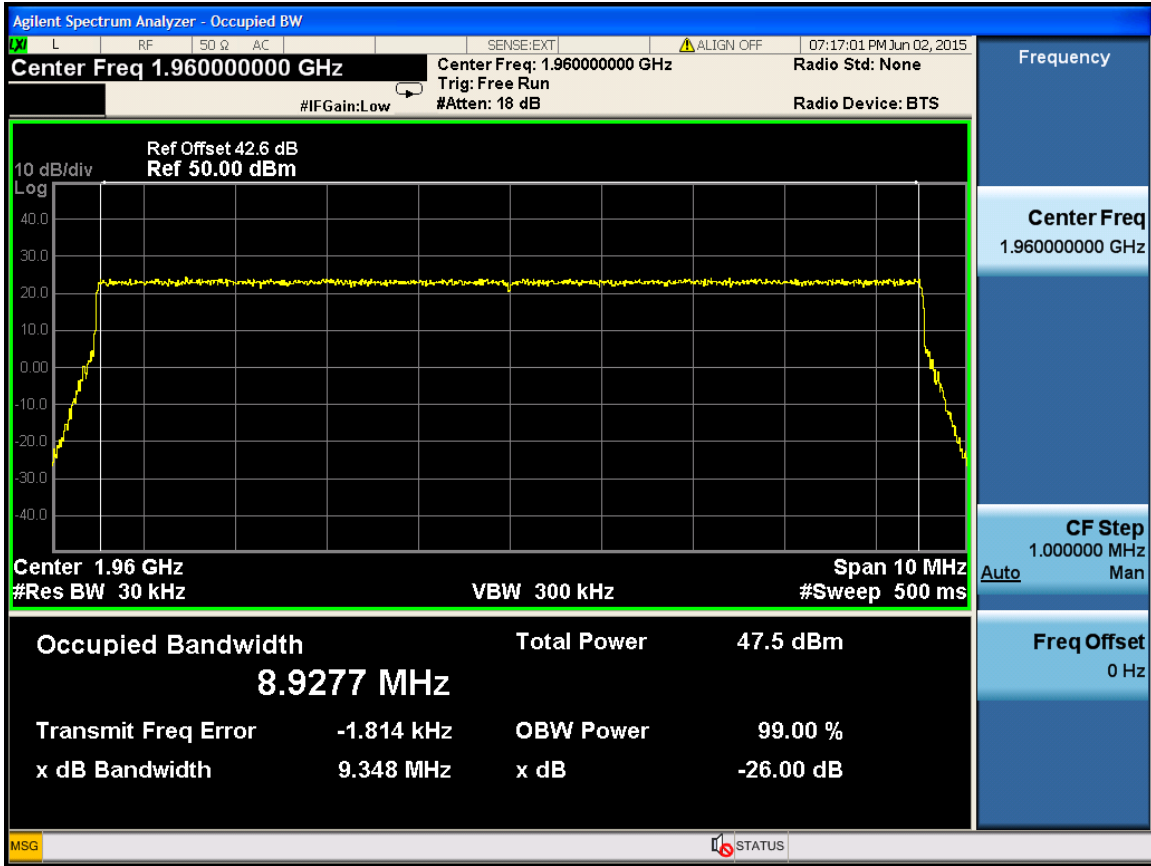




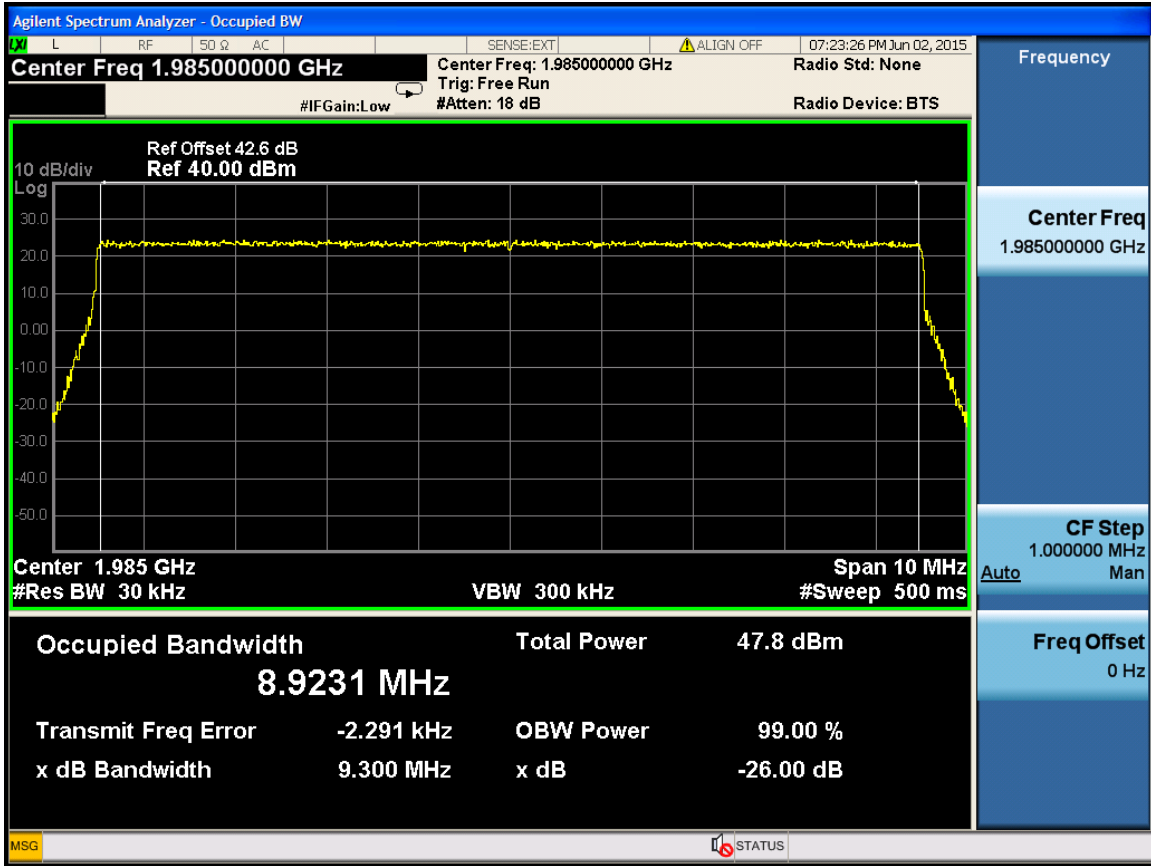
10M -Port 4 -1935MHz



10M -Port 4 -1960MHz



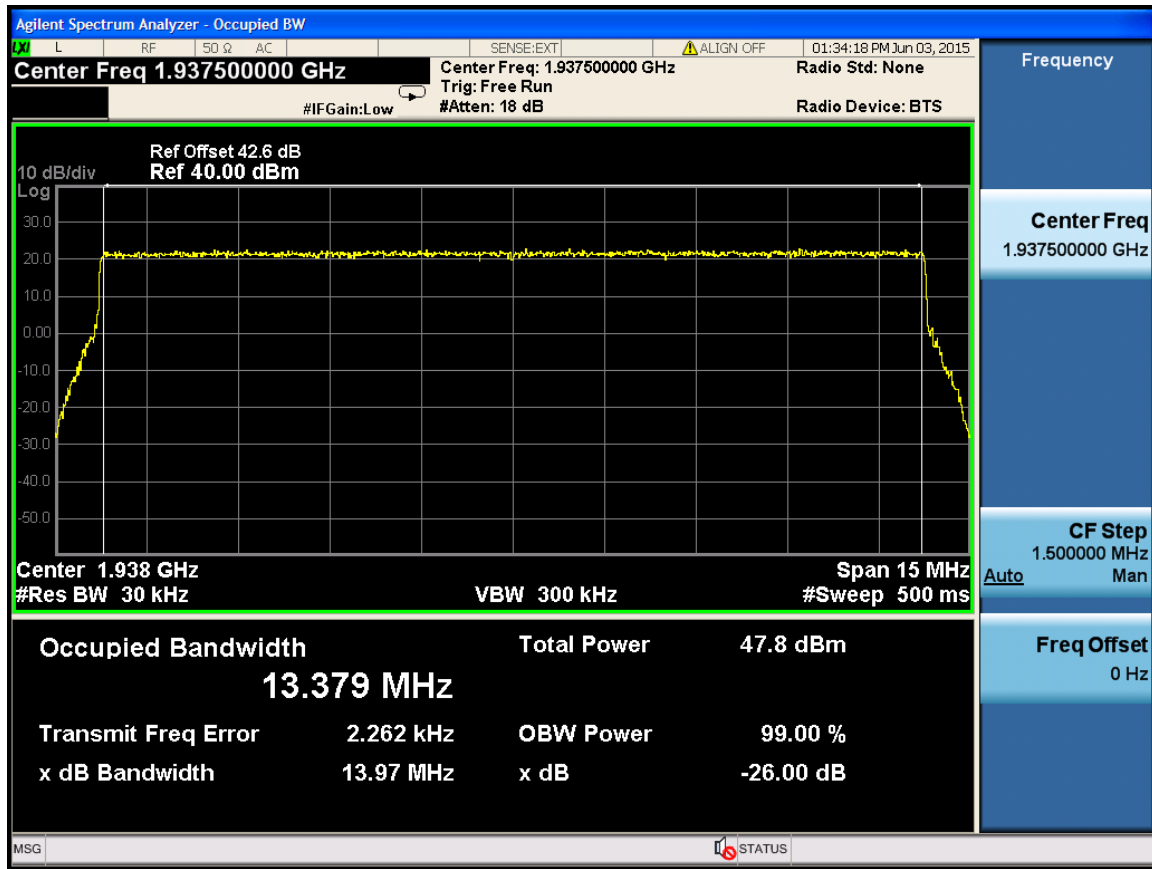
10M -Port 4 -1985MHz



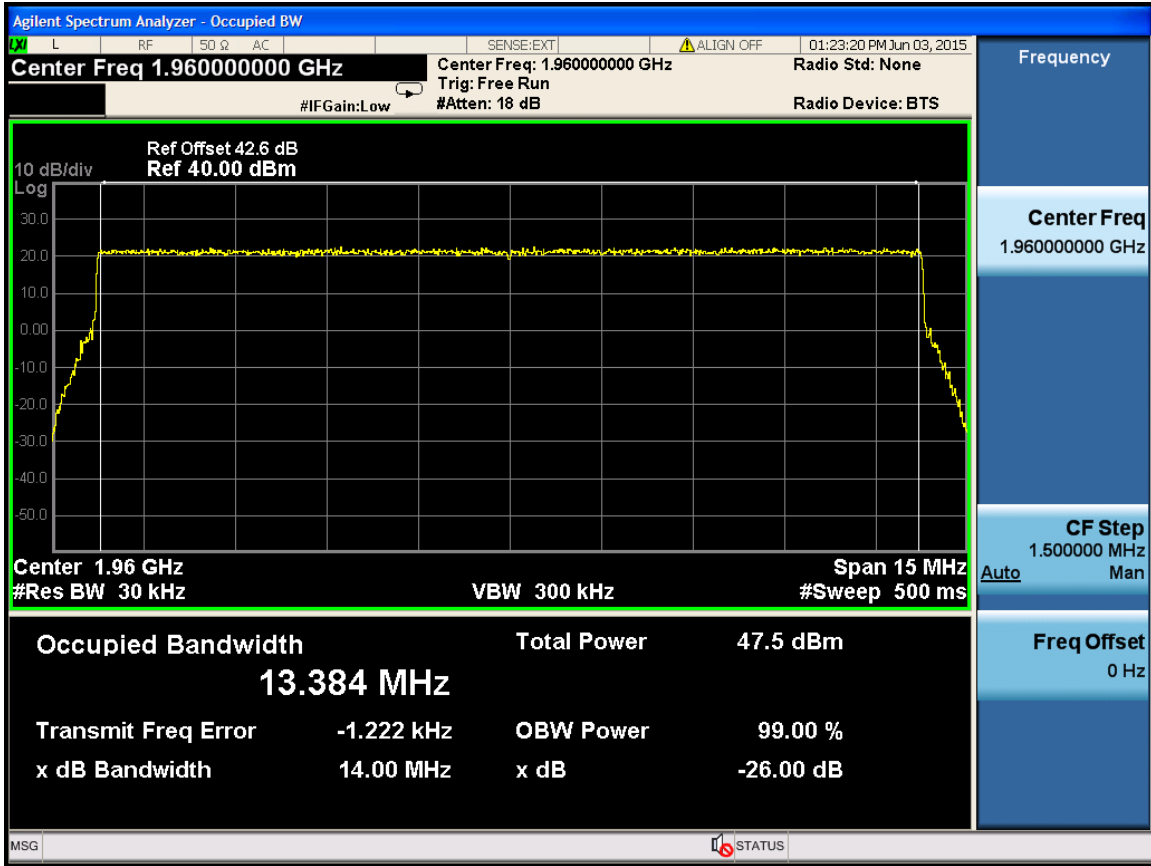
Channel Bandwidth :15M

Port	Center Freq. (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
1	1937.5	13.379	15M
	1960	13.384	15M
	1982.5	13.384	15M
4	1937.5	13.379	15M
	1960	13.382	15M
	1982.5	13.381	15M

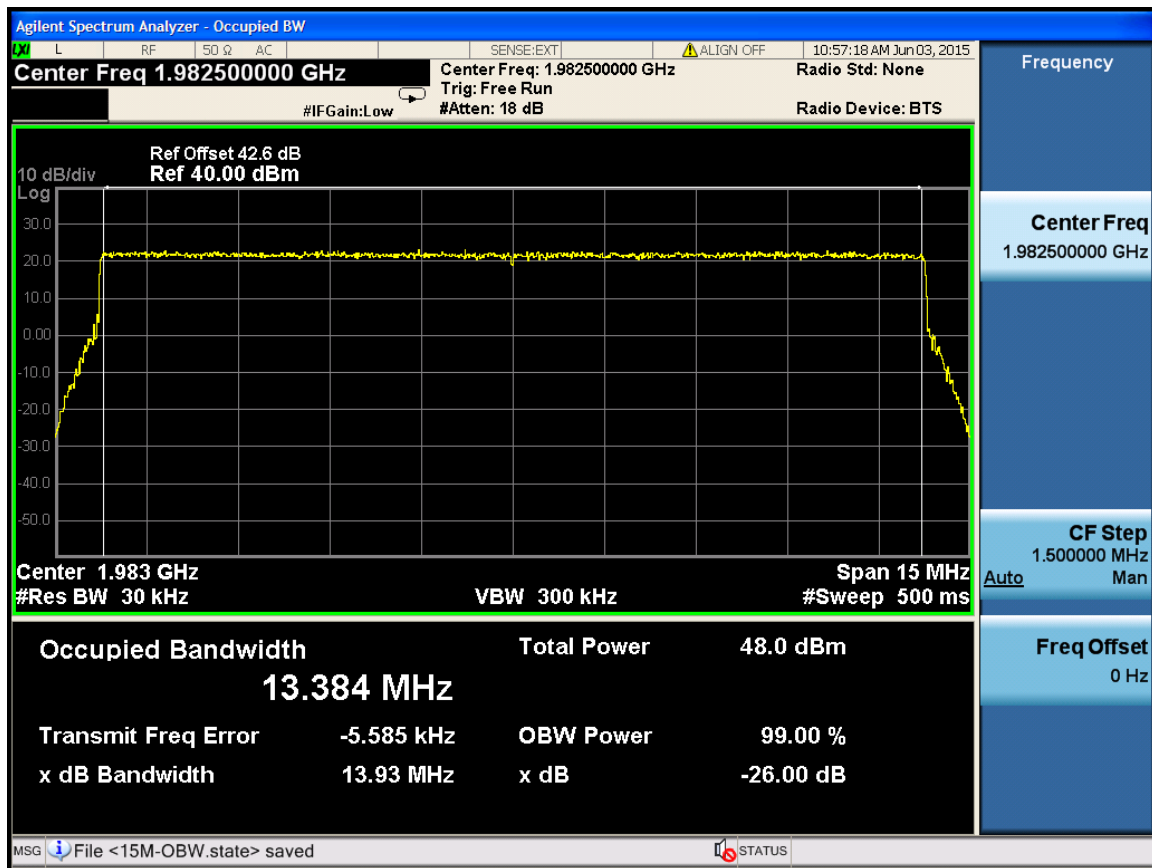
15M -Port 1 -1937.5MHz



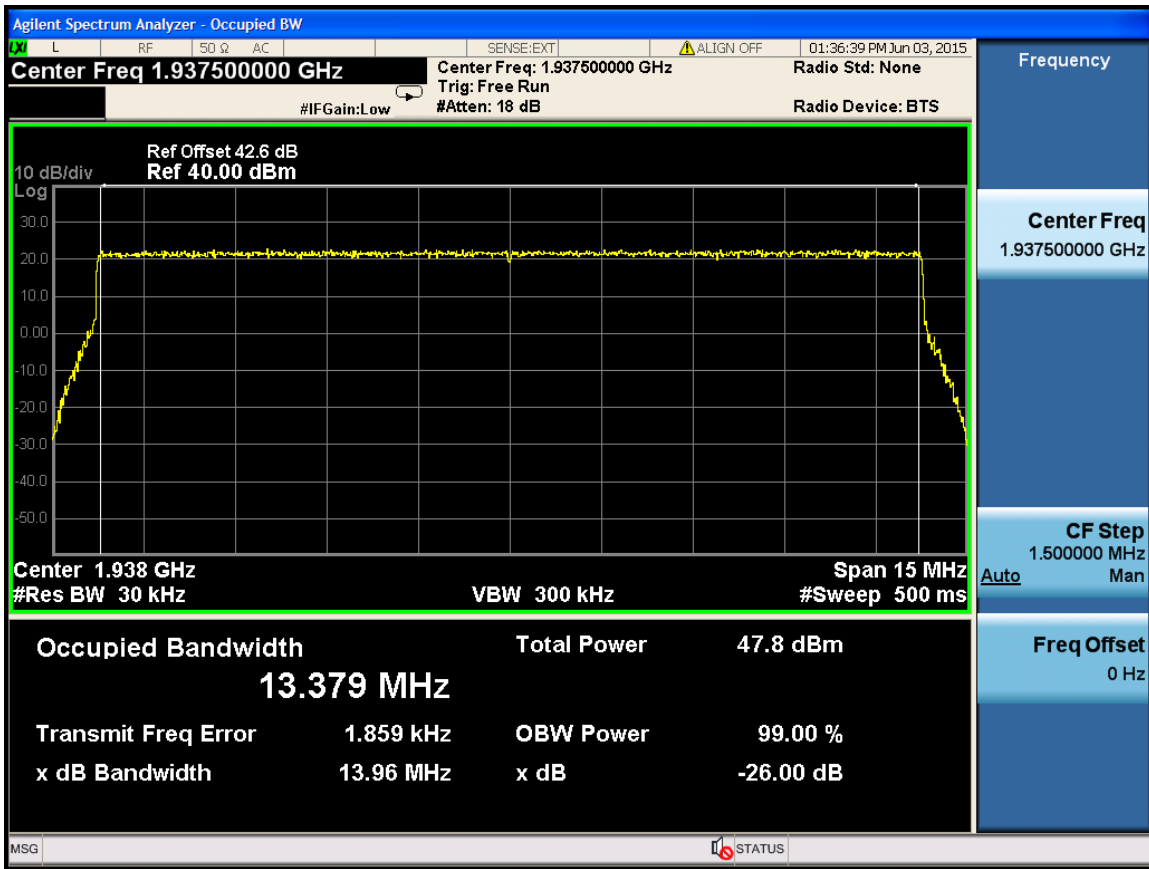
15M -Port 1 -1960MHz



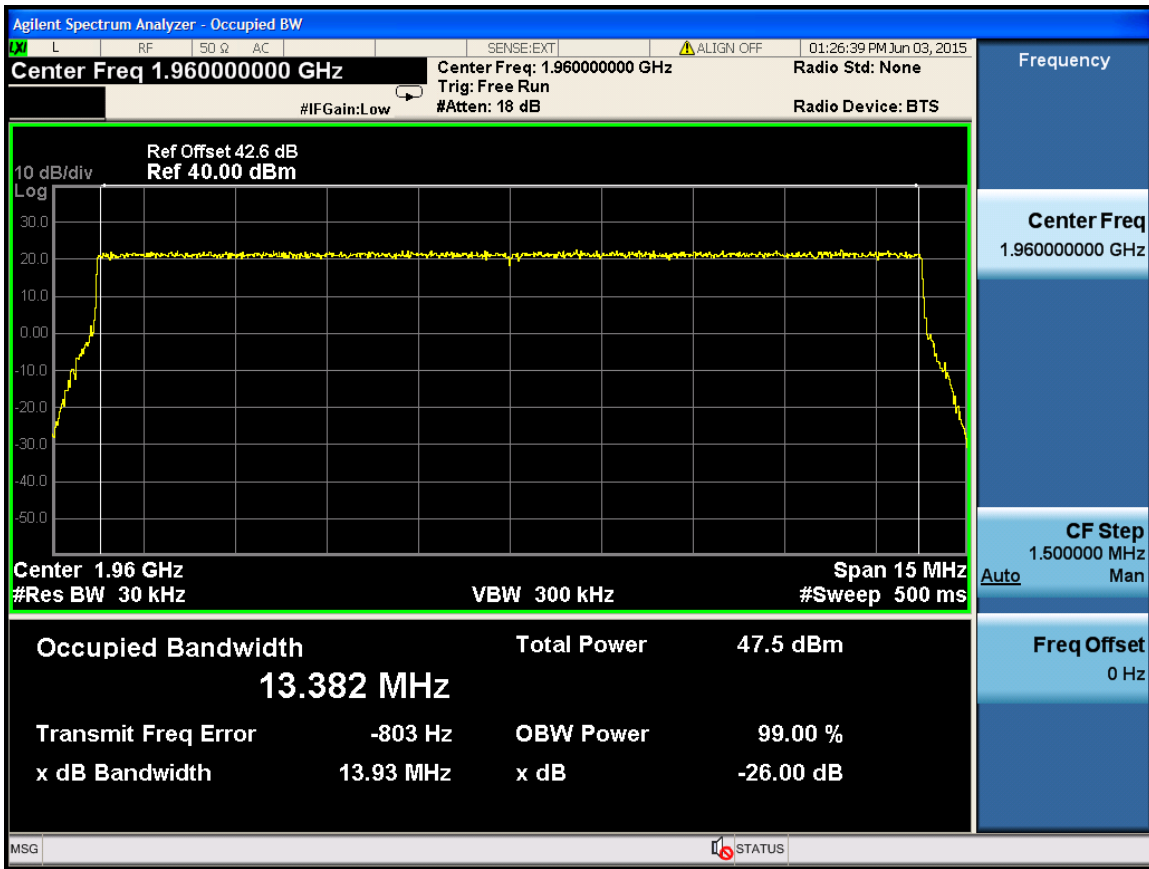
15M -Port 1 -1982.5MHz



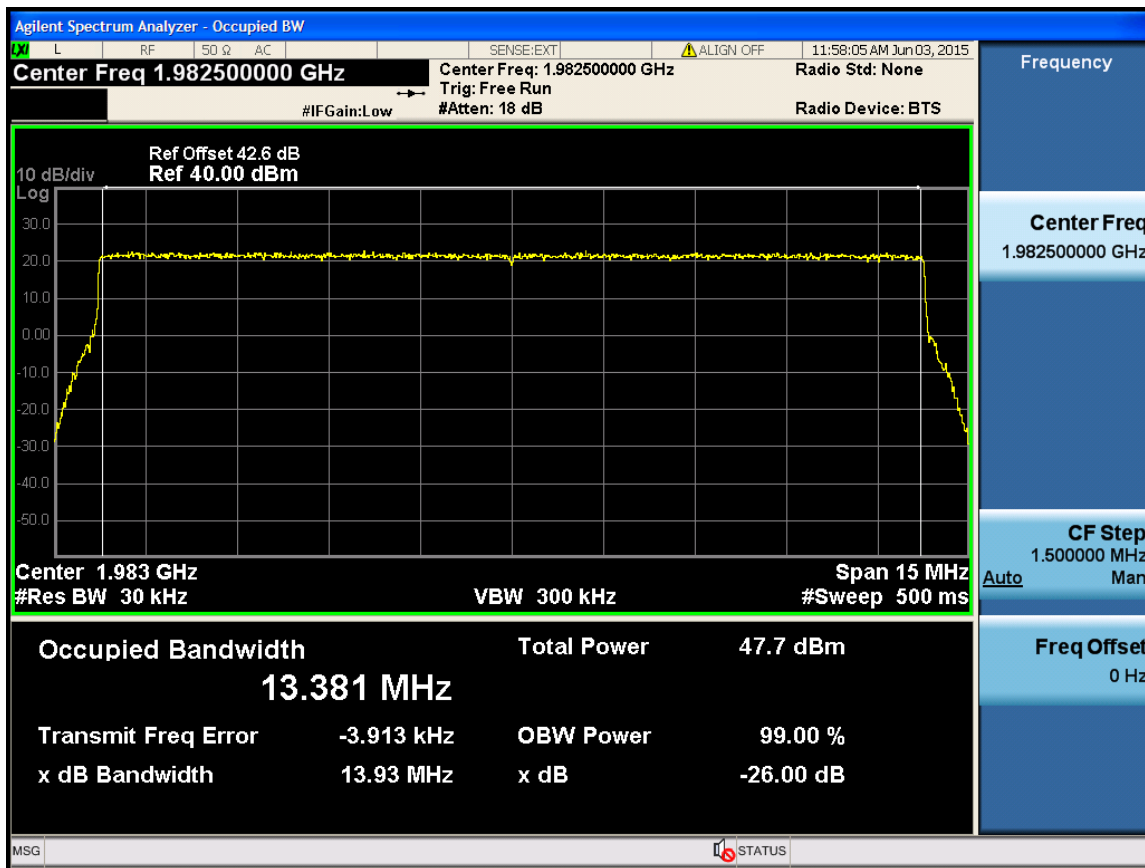
15M -Port 4 -1937.5MHz



15M -Port 4 -1960MHz



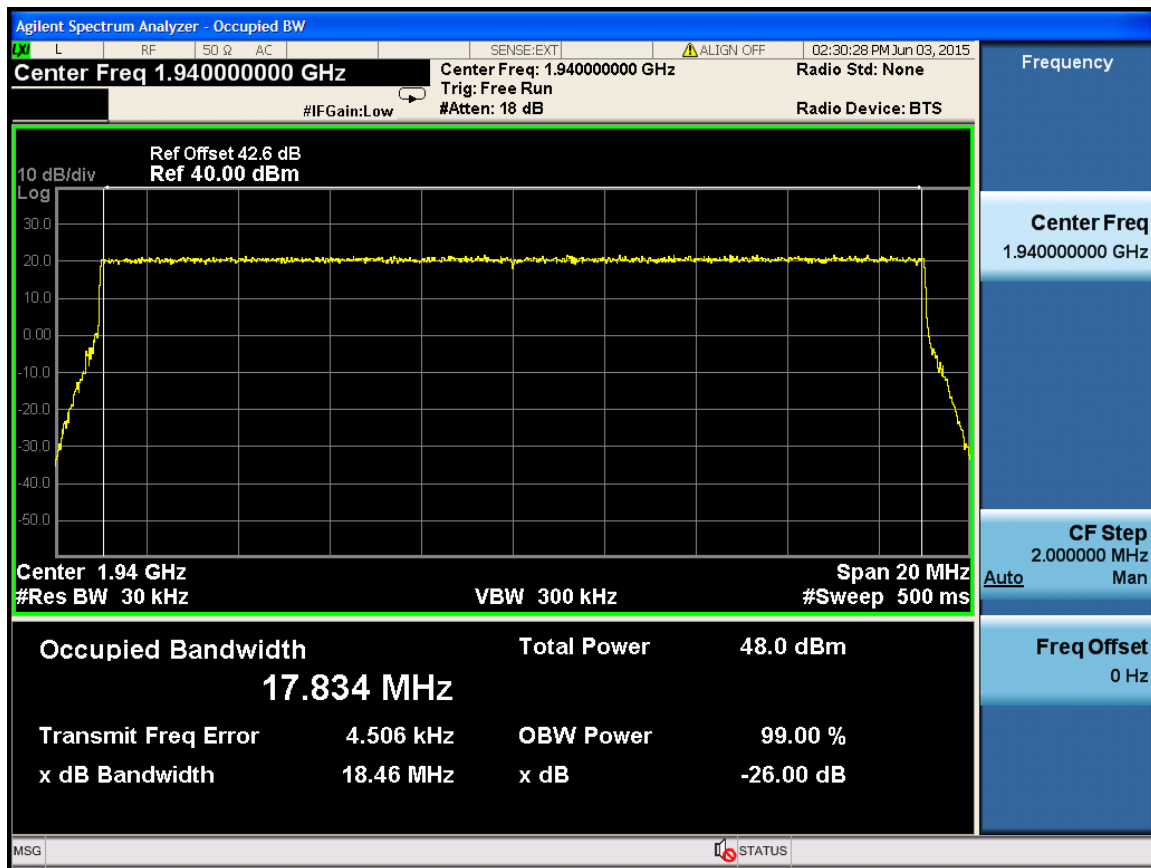
15M -Port 4 -1982.5MHz



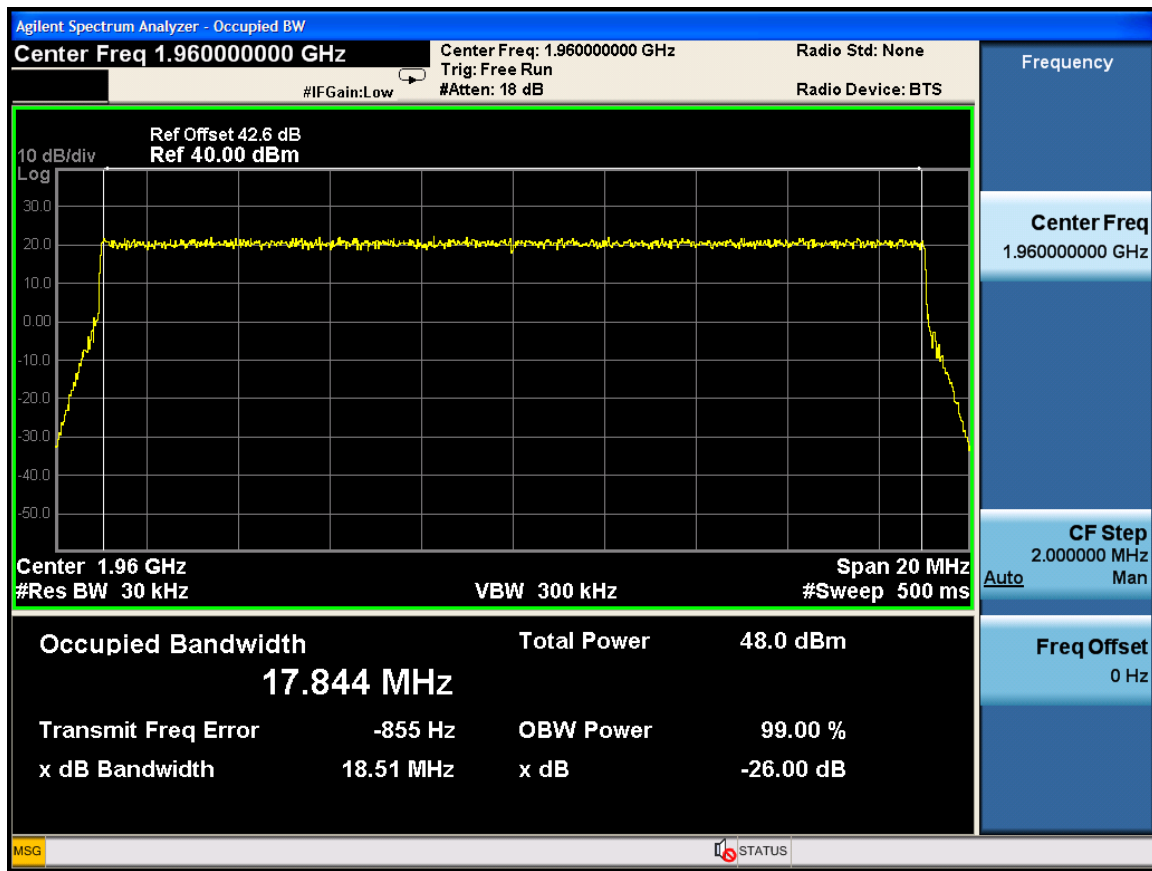
Channel Bandwidth :20M

Port	Center Freq. (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
1	1940	17.834	20M
	1960	17.844	20M
	1980	17.381	20M
4	1940	17.831	20M
	1960	17.832	20M
	1980	17.839	20M

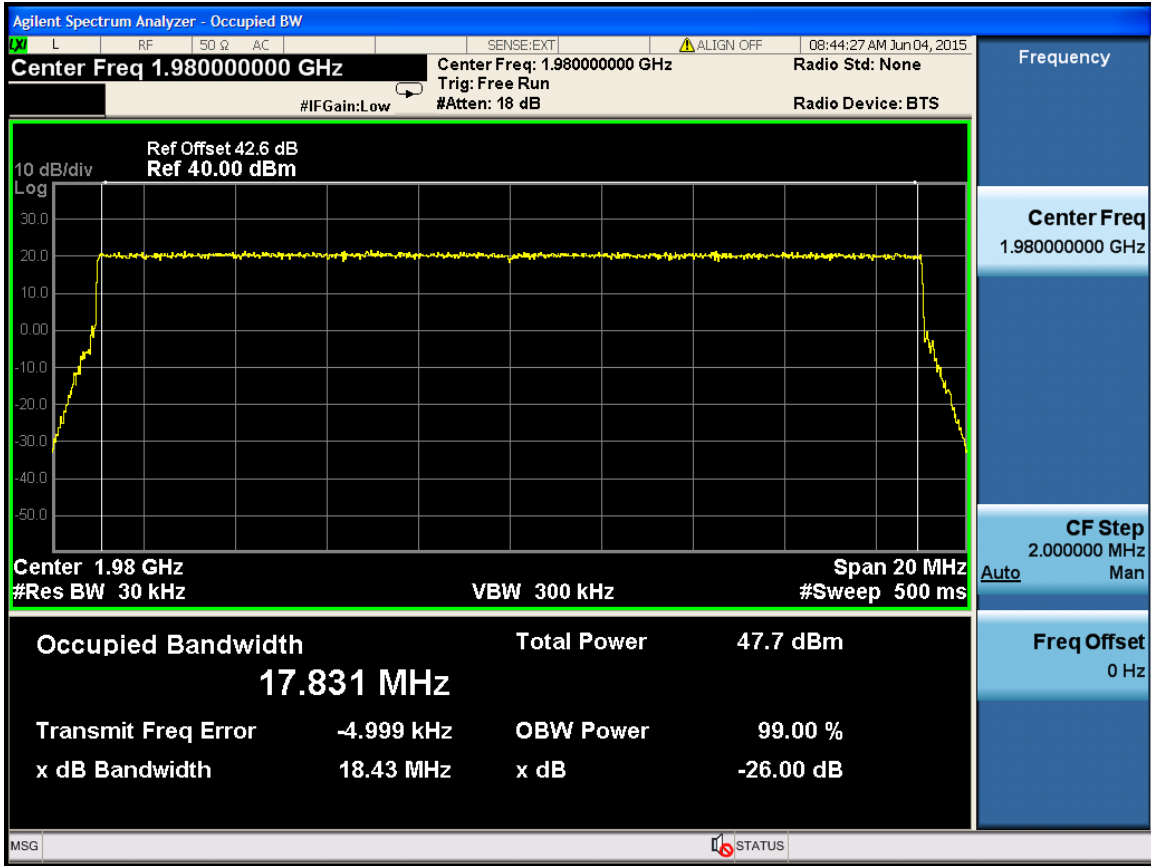
20M -Port 1 -1940MHz



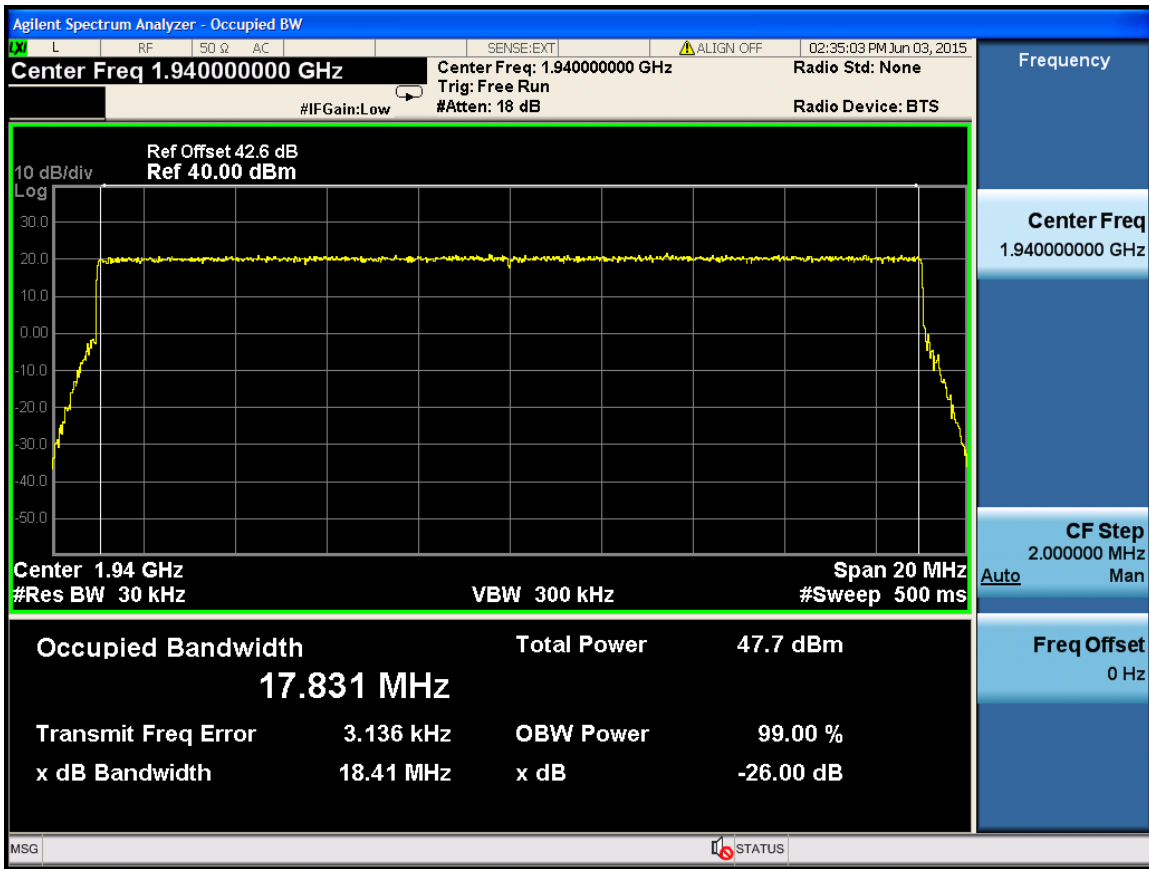
20M -Port 1 -1960MHz



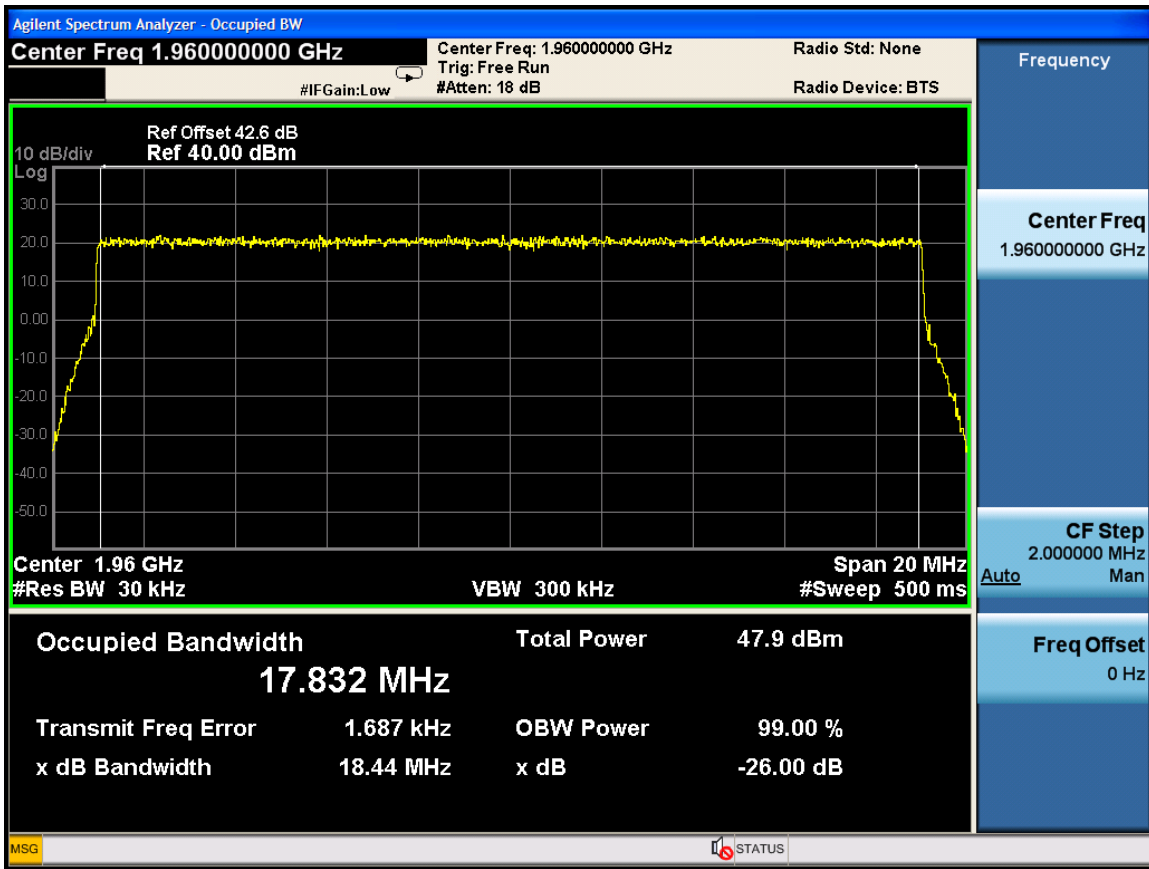
20M -Port 1 -1980MHz



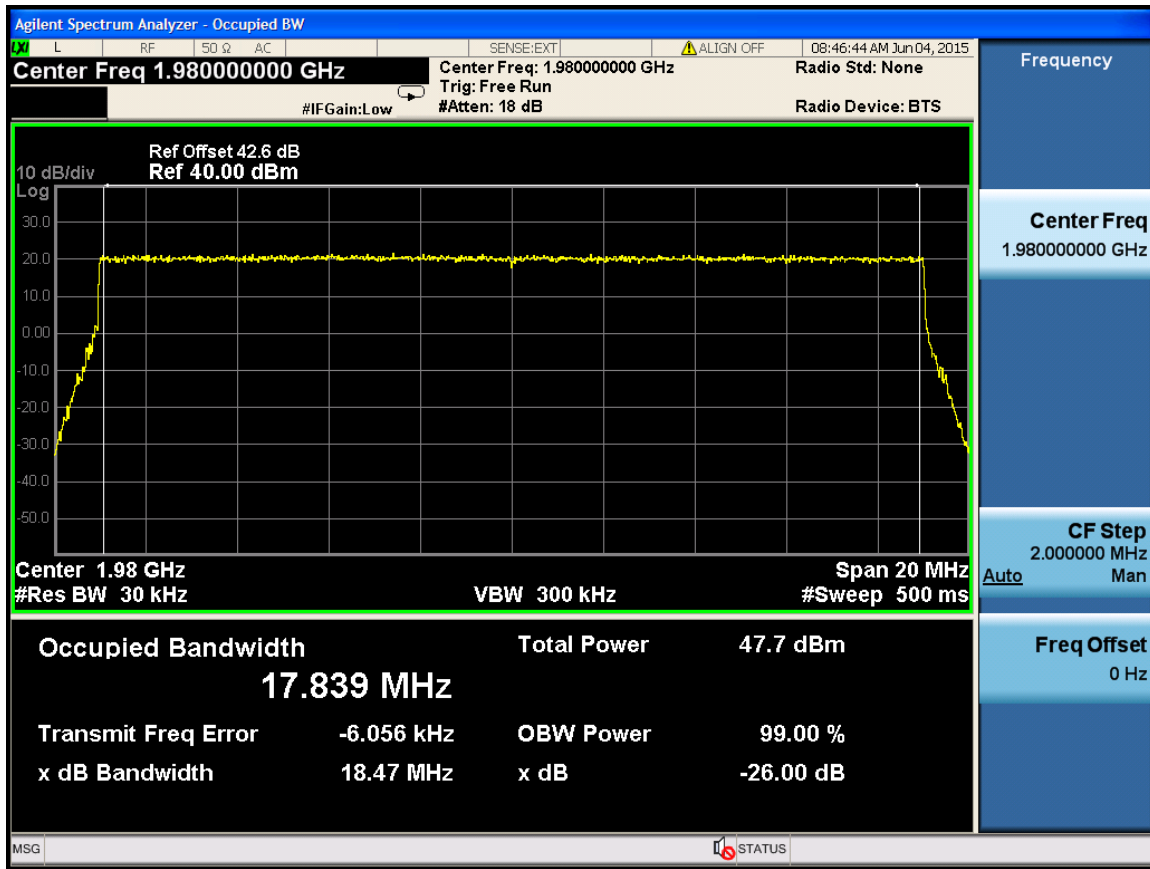
20M -Port 4 -1940MHz



20M -Port 4 -1960MHz



20M -Port 4 -1980MHz



11 BAND EDGES

Applicable Standard: FCC §2.1051, §24.238

According to §2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (p) by a factor of at least $43 + 10 \log(p)$ dB. The limit (dBm) should $< P - (43 + 10 \log(P)) = -13 \text{ dBm}$.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9030A	MY49431143	2015.04.17	2016.04.17

DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2015.04.17	2016.04.17
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***statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements , traceable to NIST.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.

Test Data Environmental Conditions

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

Test Result: Pass

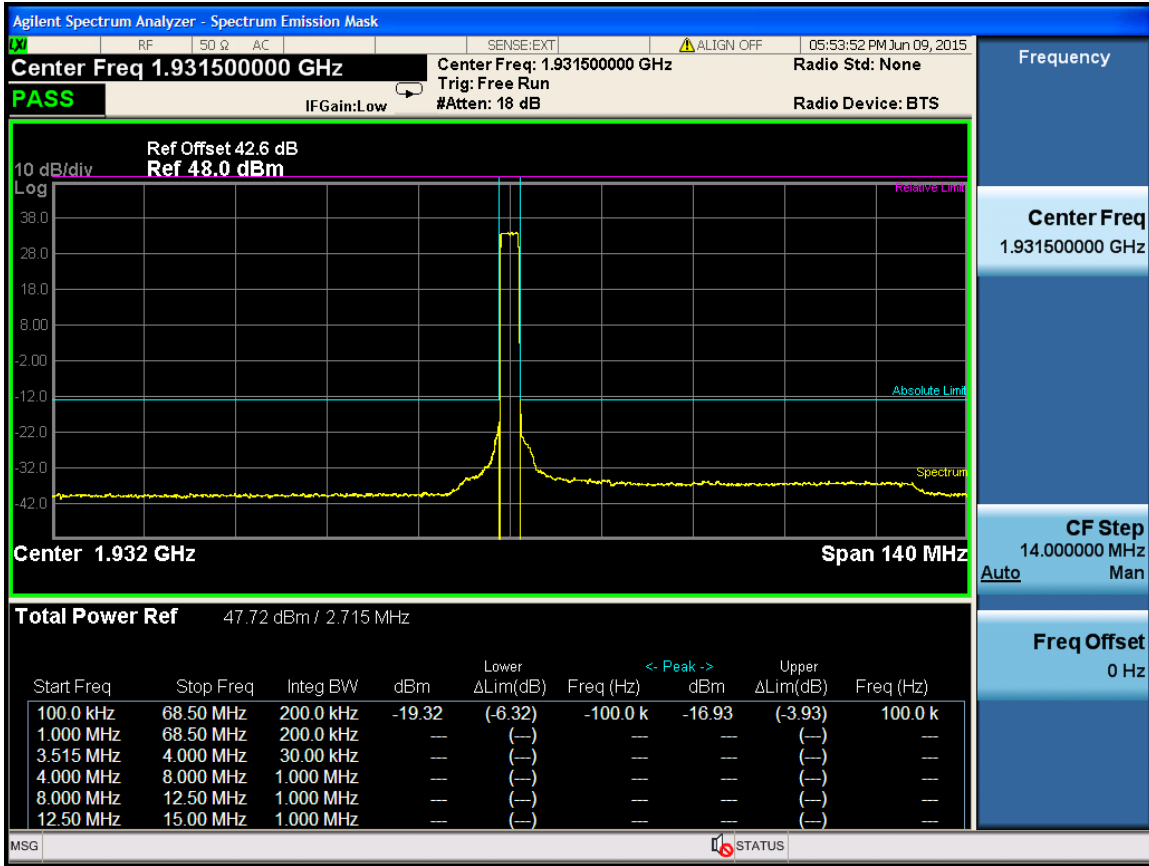
Test Mode: Transmitting LTE

Test Data

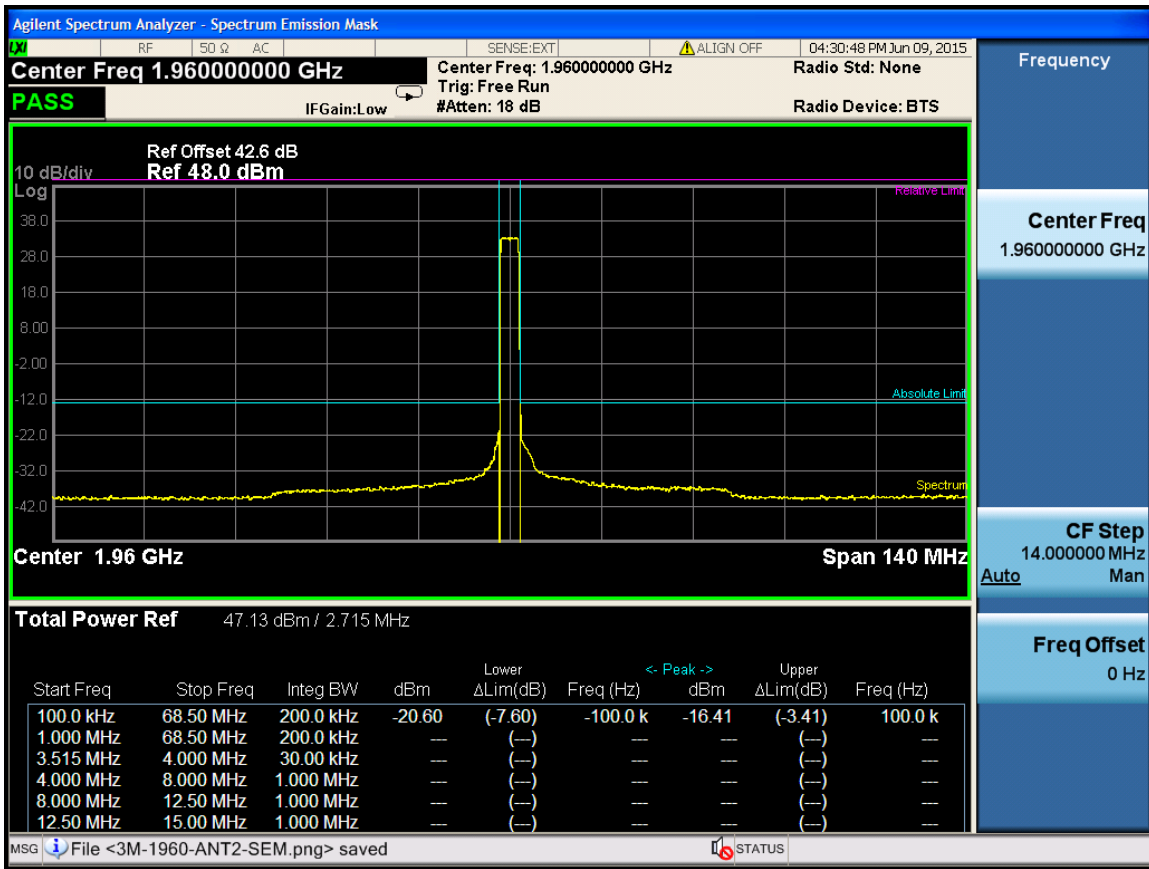
Channel Bandwidth :3M

Port	Center Freq. (MHz)	Max bandedge Emission (dBm)	Limit (dBm)
1	1931.5	-16.93	-13
	1960	-16.41	-13
	1988.5	-15.71	-13
4	1931.5	-15.46	-13
	1960	-15.28	-13
	1988.5	-15.68	-13

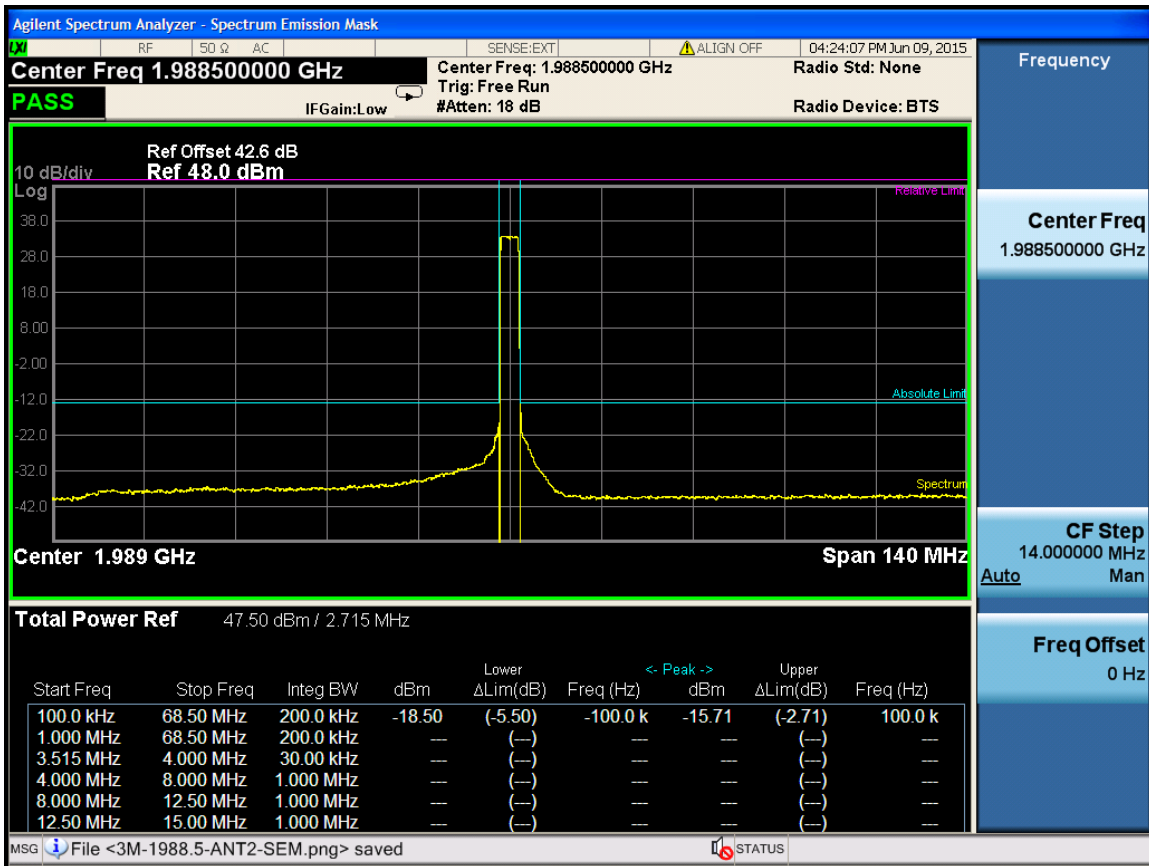
3M -Port 1 -1931.5MHz



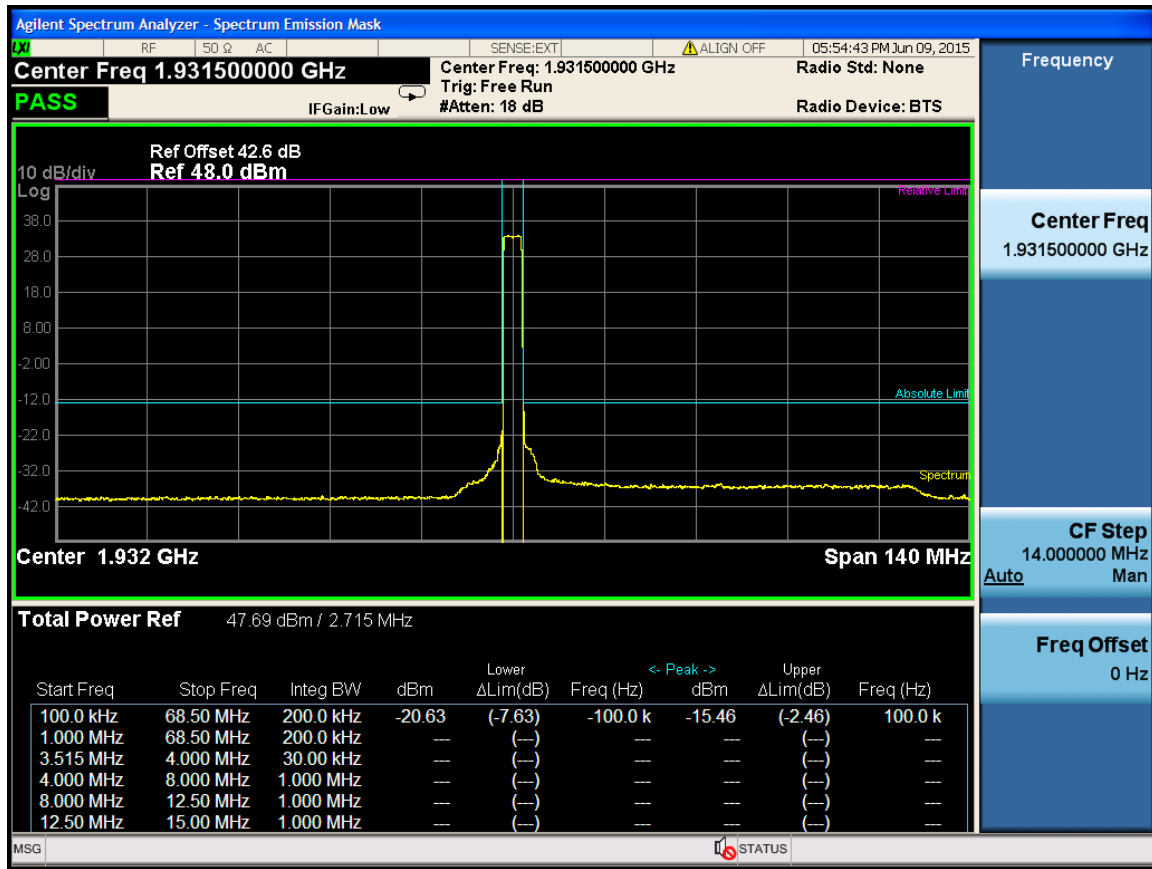
3M -Port 1 -1960MHz



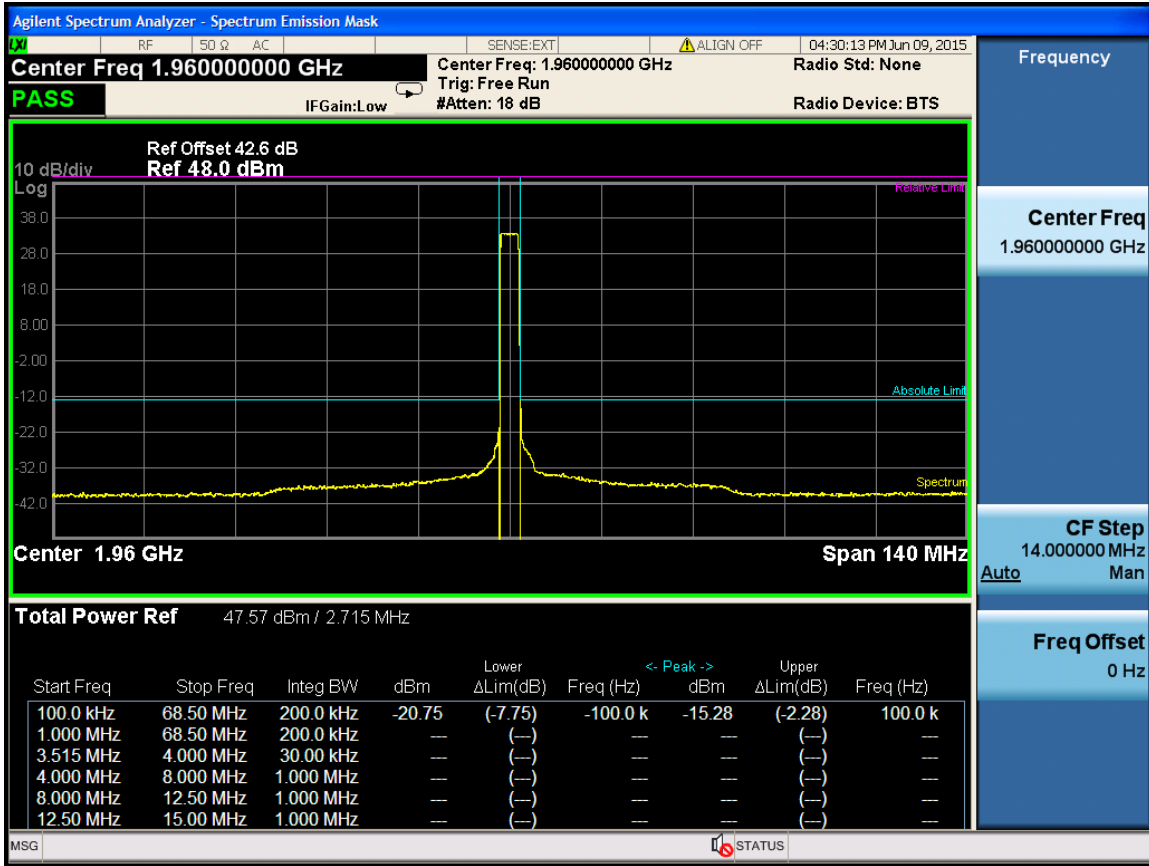
3M -Port 1 -1988.5MHz



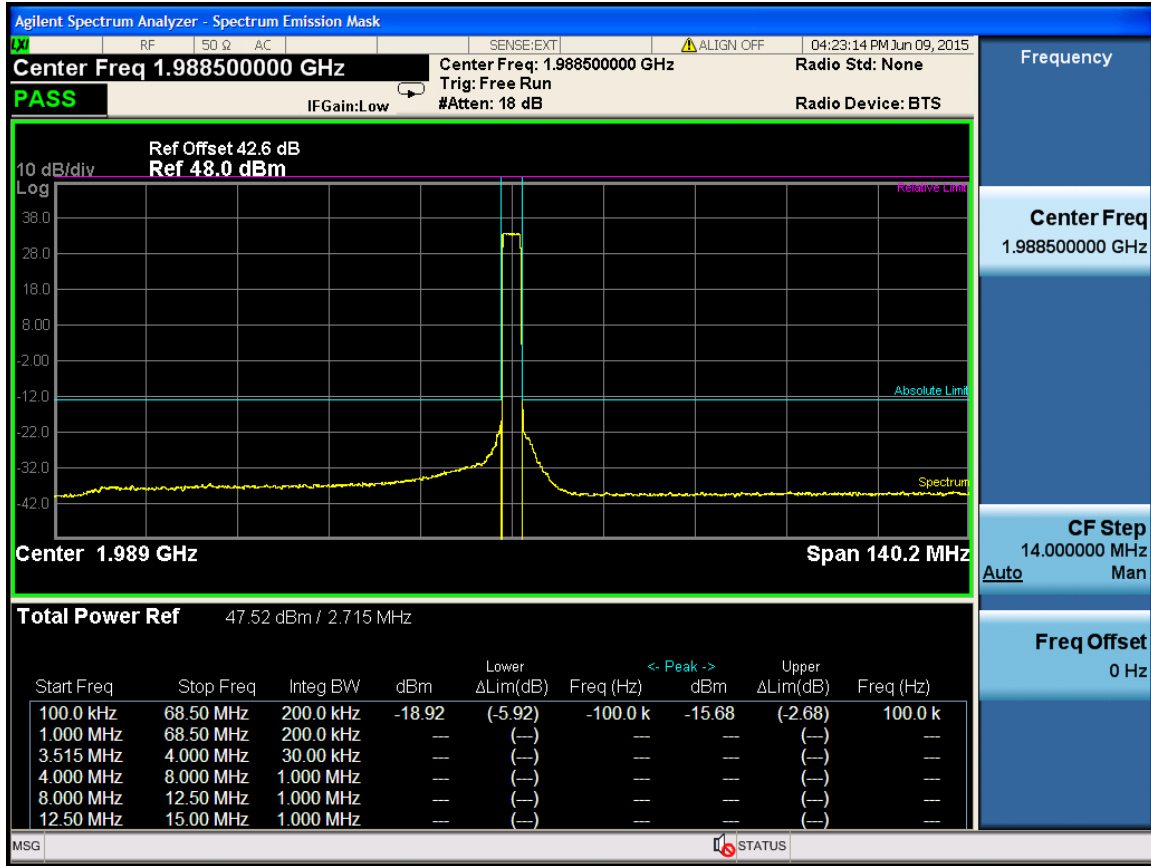
3M -Port 4 -1931.5MHz



3M -Port 4 -1960MHz



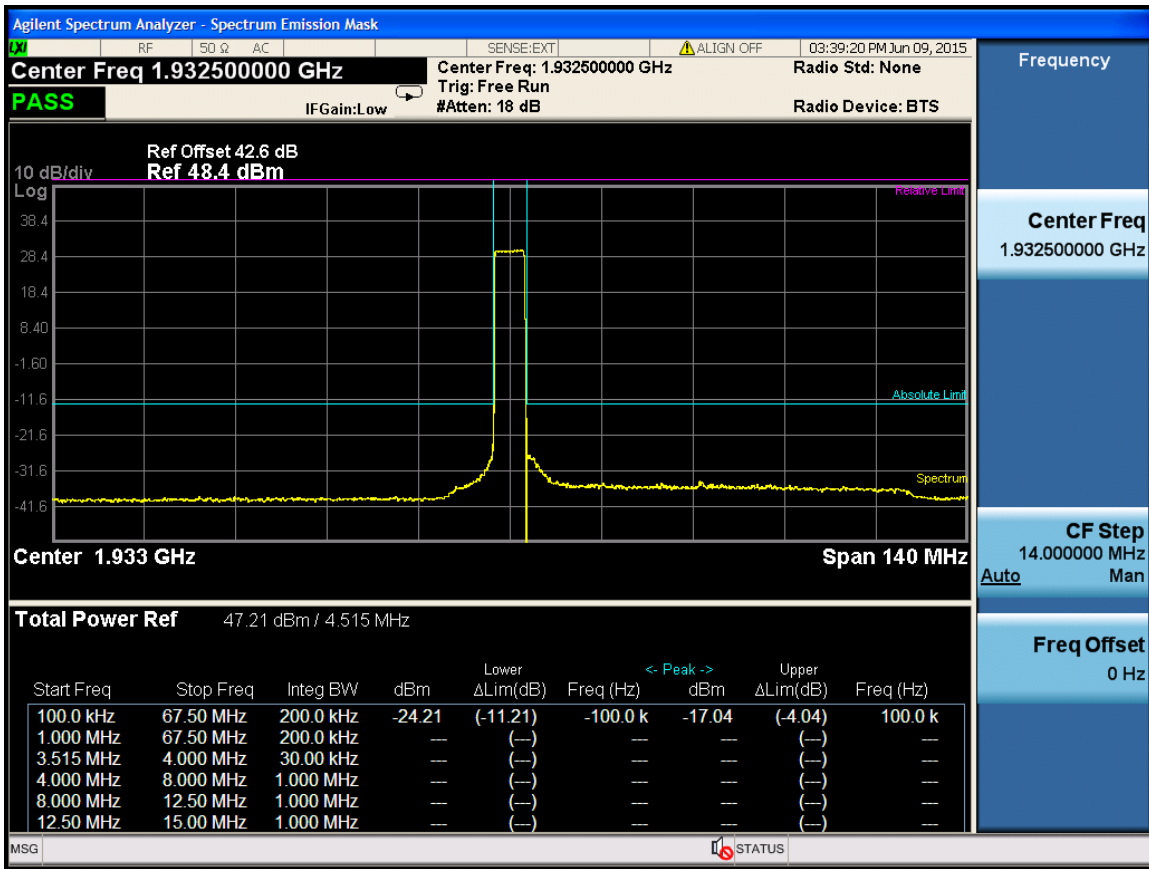
3M -Port 4 -1988.5MHz



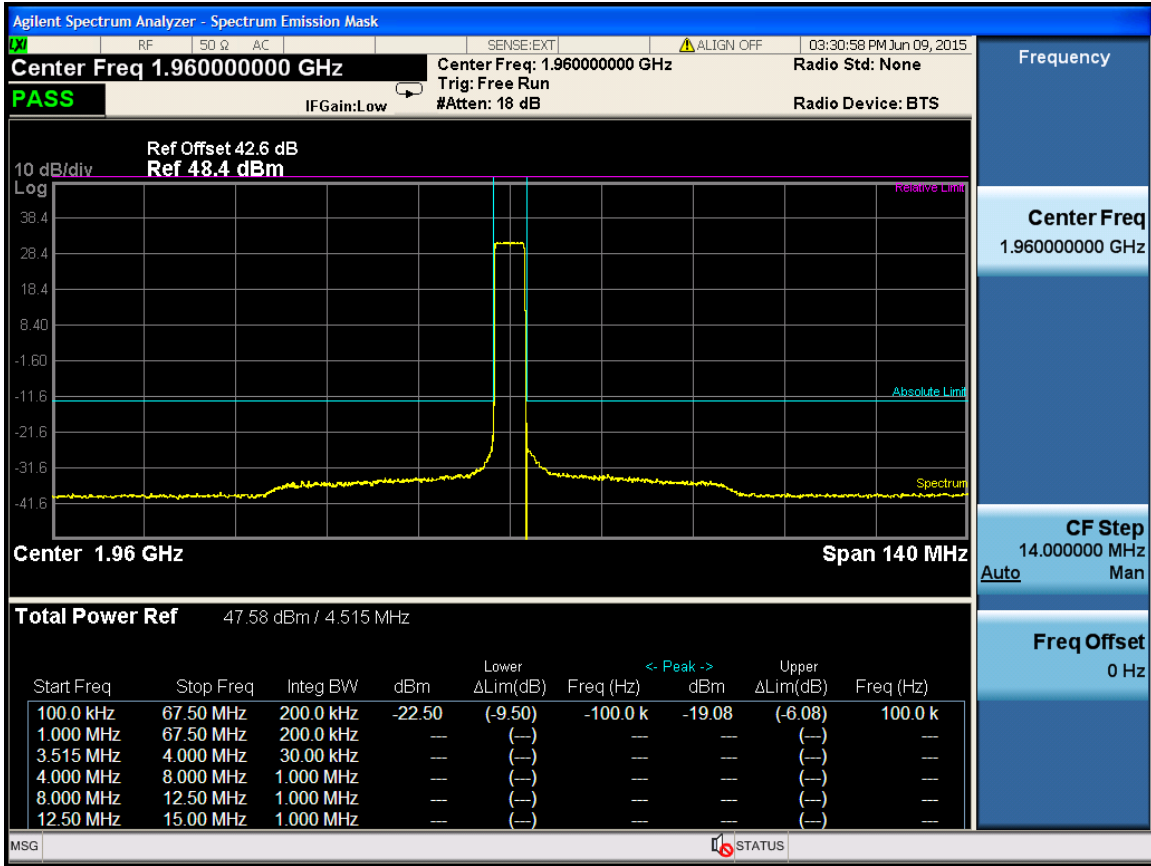
Channel Bandwidth :5M

Port	Center Freq. (MHz)	Max bandedge Emission (dBm)	Limit (dBm)
1	1932.5	-17.04	-13
	1960	-19.08	-13
	1987.5	-18.46	-13
4	1932.5	-17.83	-13
	1960	-18.75	-13
	1987.5	-19.31	-13

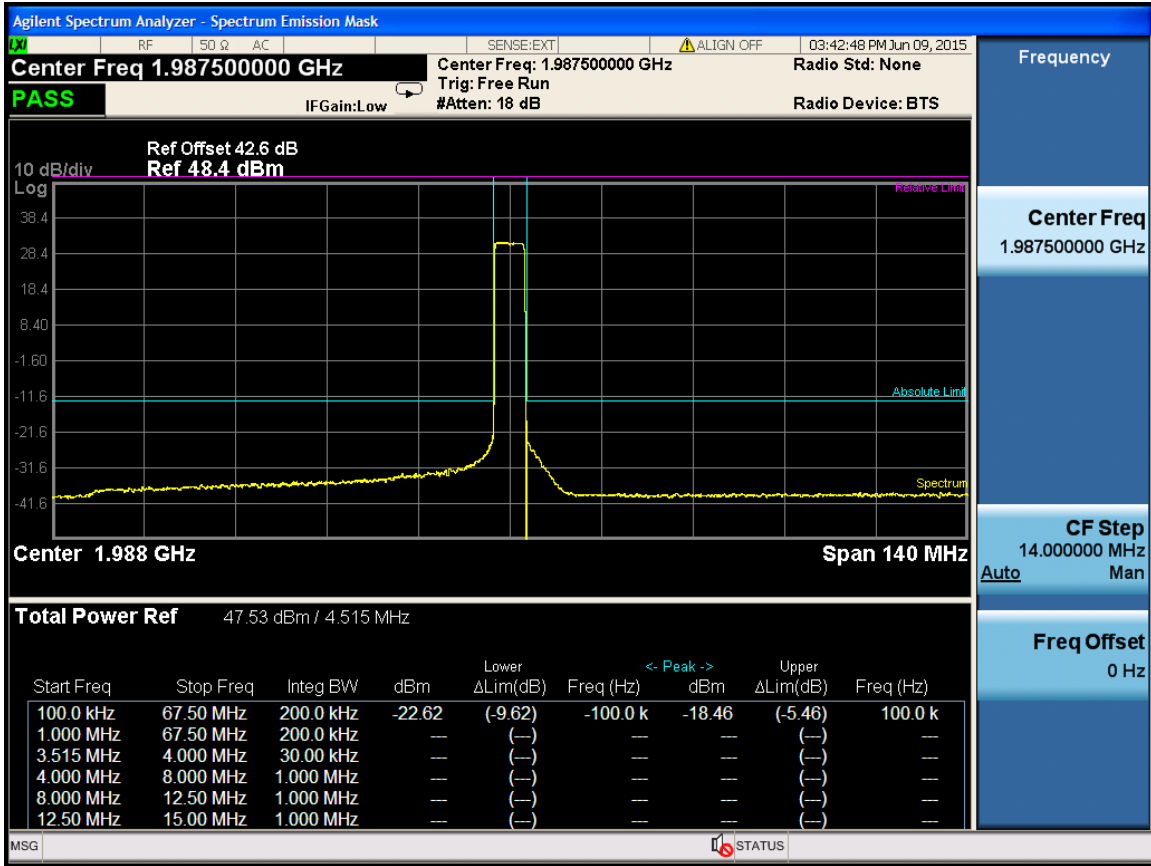
5M -Port 1 -1932.5MHz



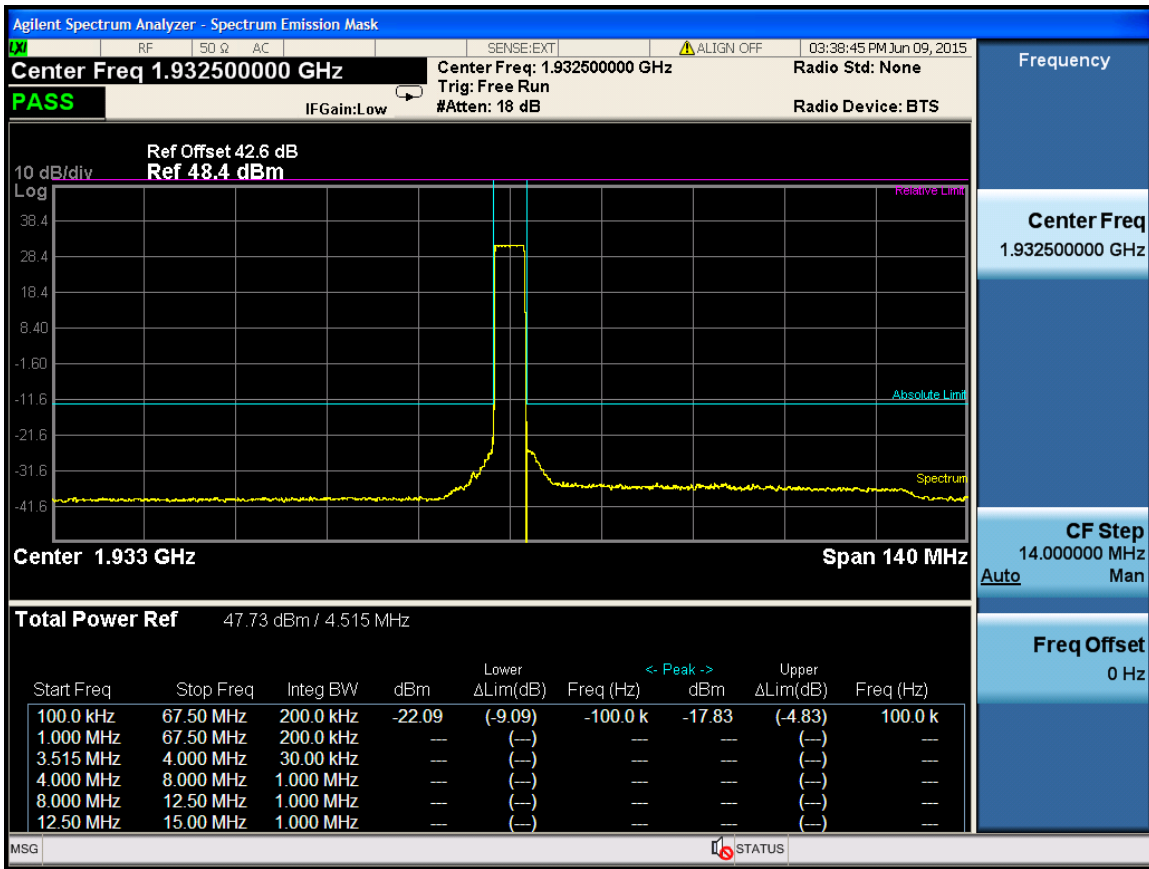
5M -Port 1 -1960MHz



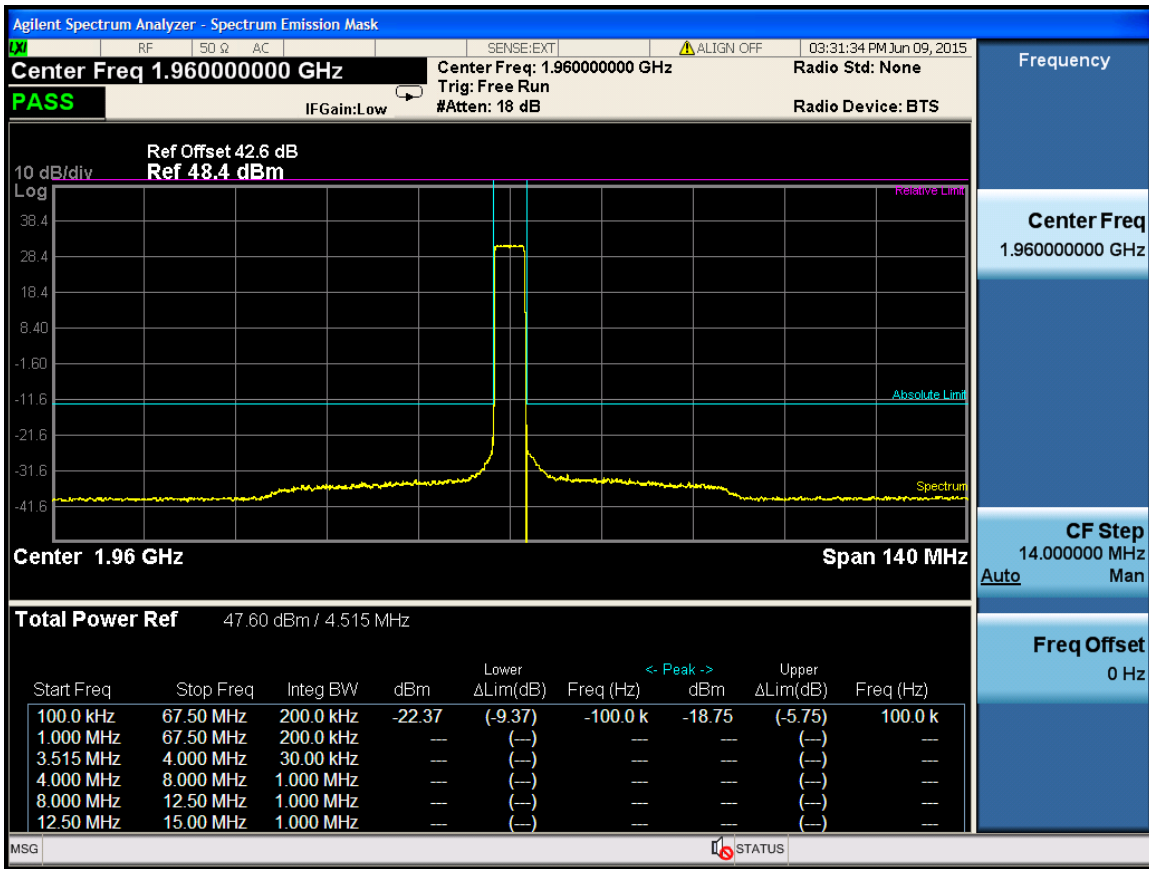
5M -Port 1 -1987.5MHz



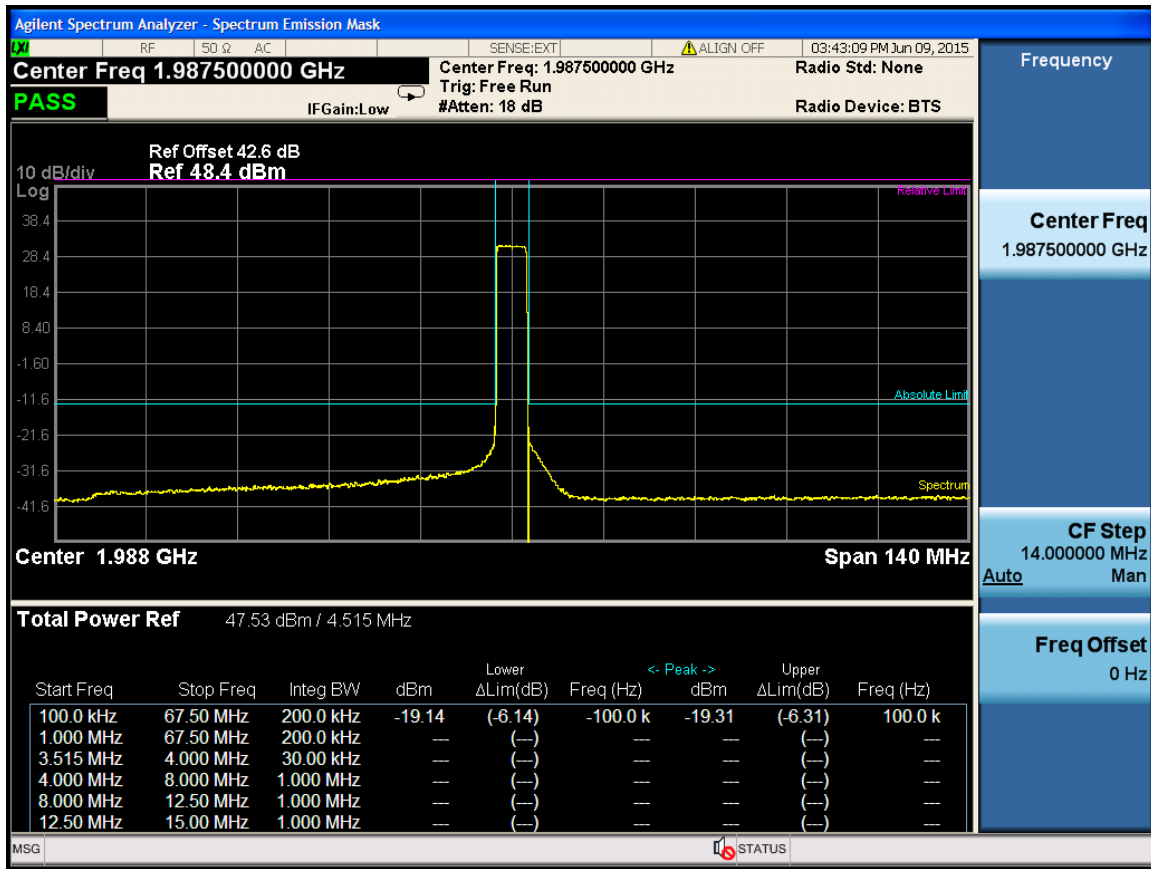
5M -Port 4 -1932.5MHz



5M -Port 4 -1960MHz



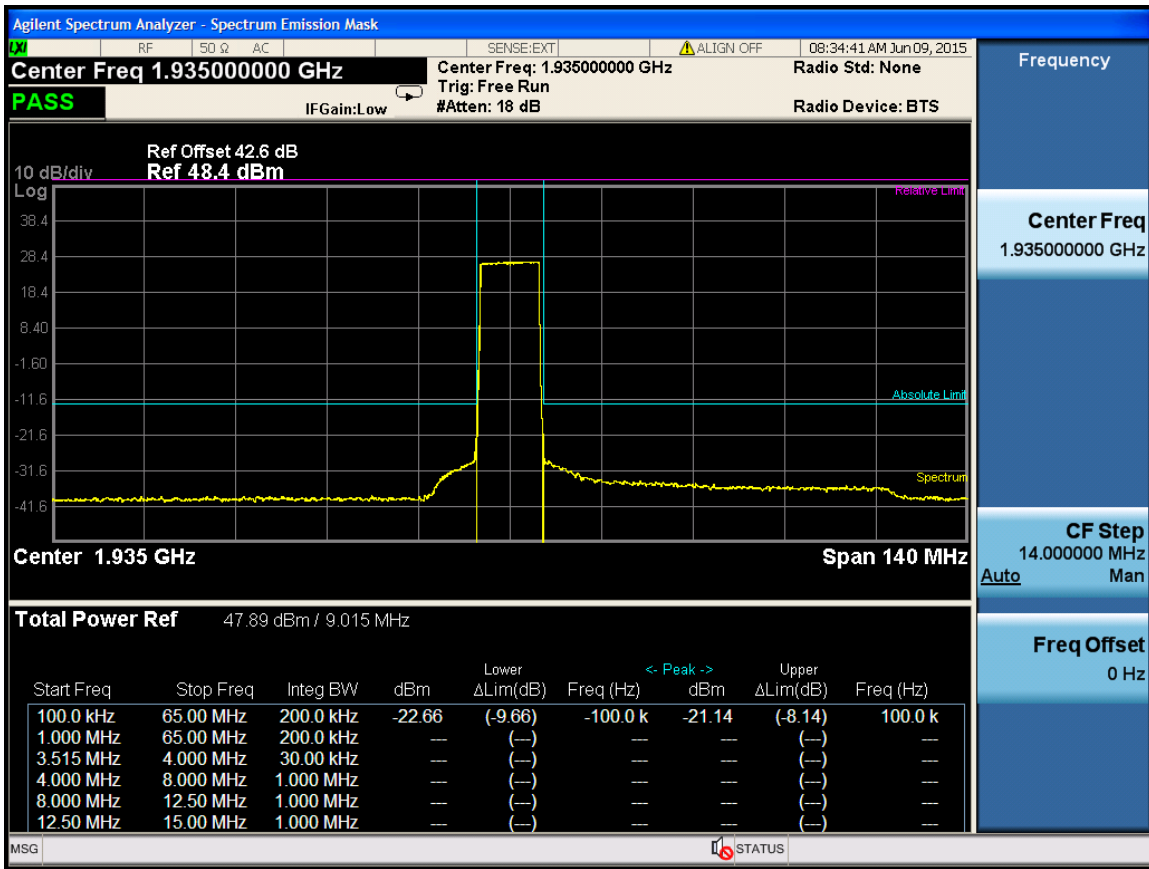
5M -Port 4 -1987.5MHz



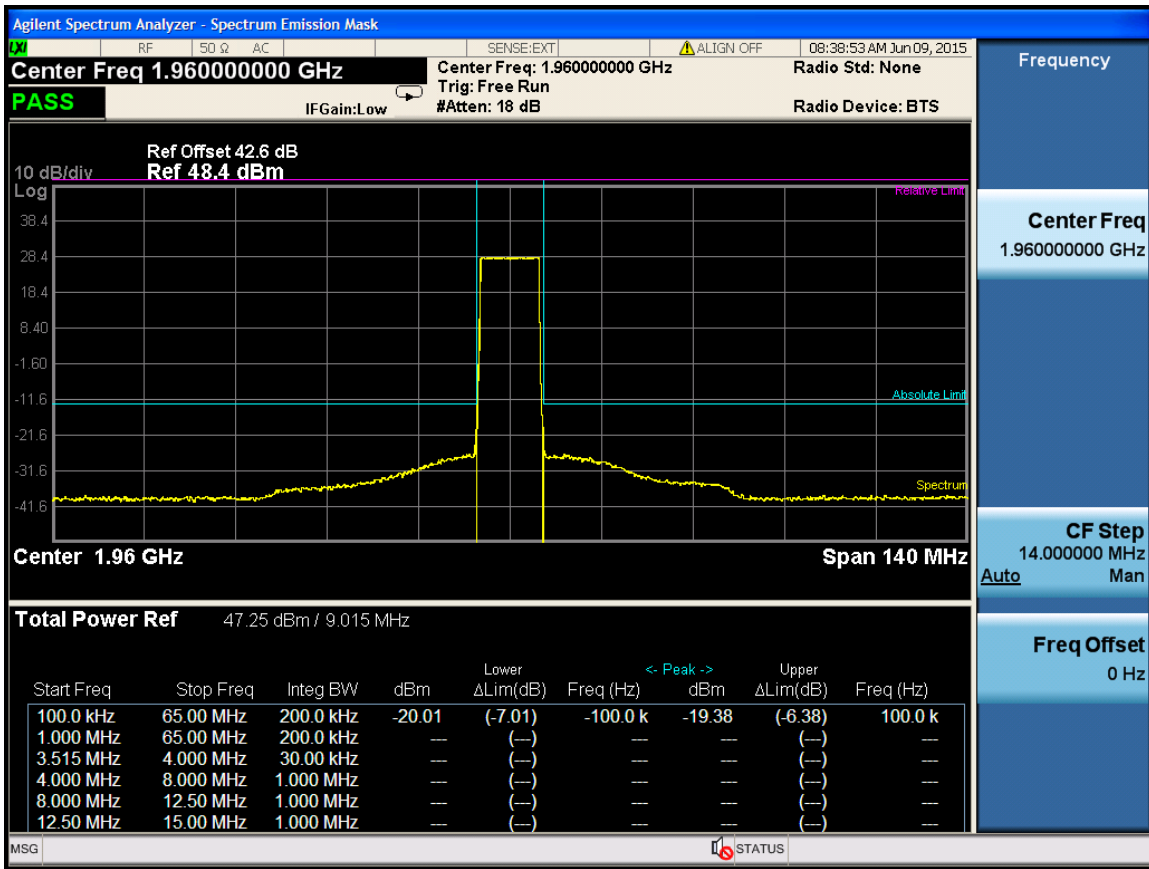
Channel Bandwidth :10M

Port	Center Freq. (MHz)	Max bandedge Emission (dBm)	Limit (dBm)
1	1935	-21.14	-13
	1960	-19.38	-13
	1985	-18.57	-13
4	1935	-19.31	-13
	1960	-18.54	-13
	1985	-18.12	-13

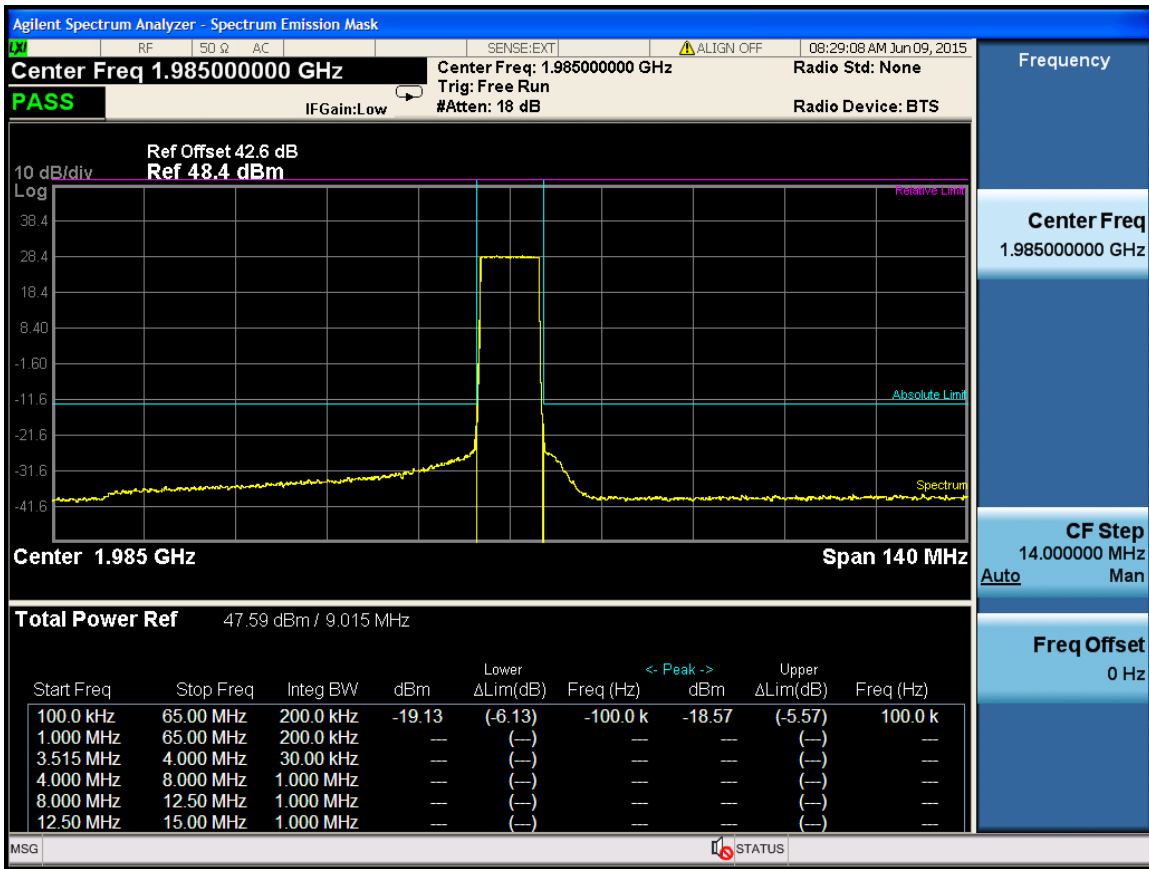
10M -Port 1 -1935MHz



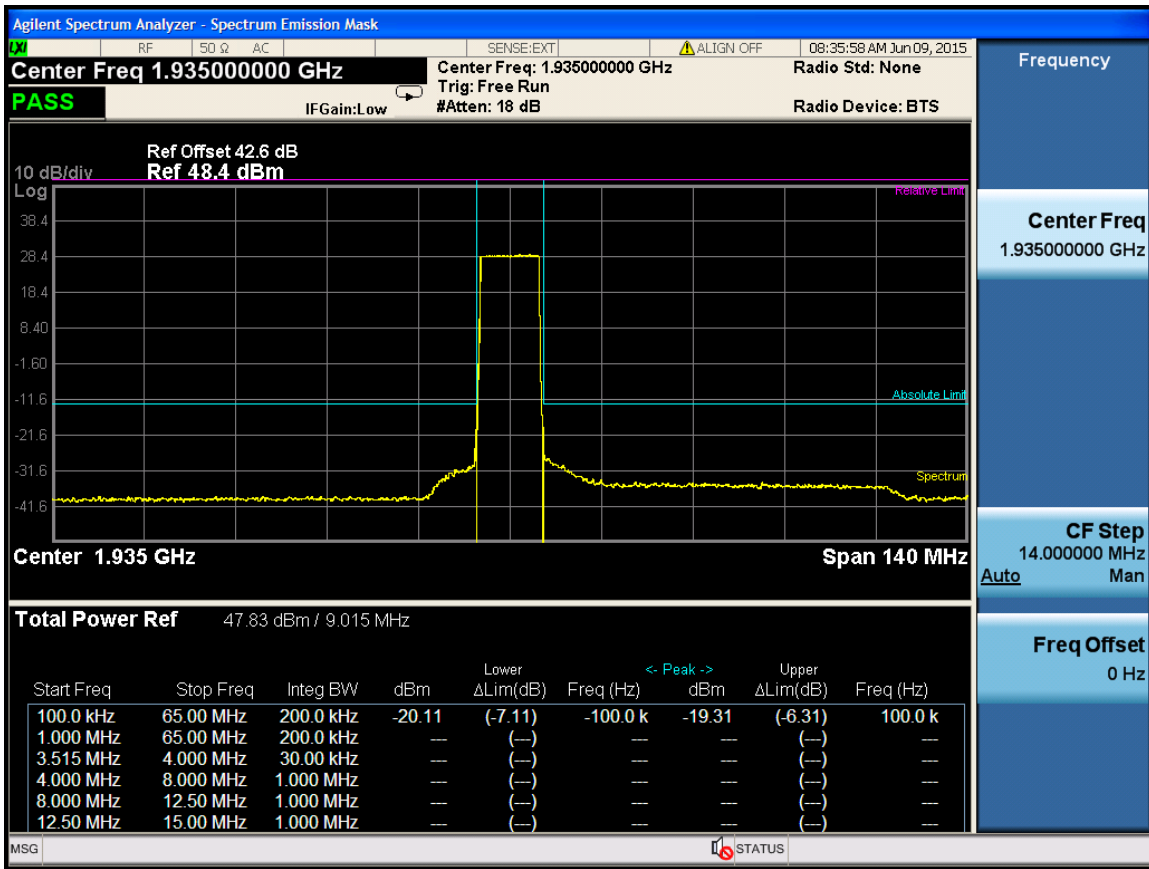
10M -Port 1 -1960MHz



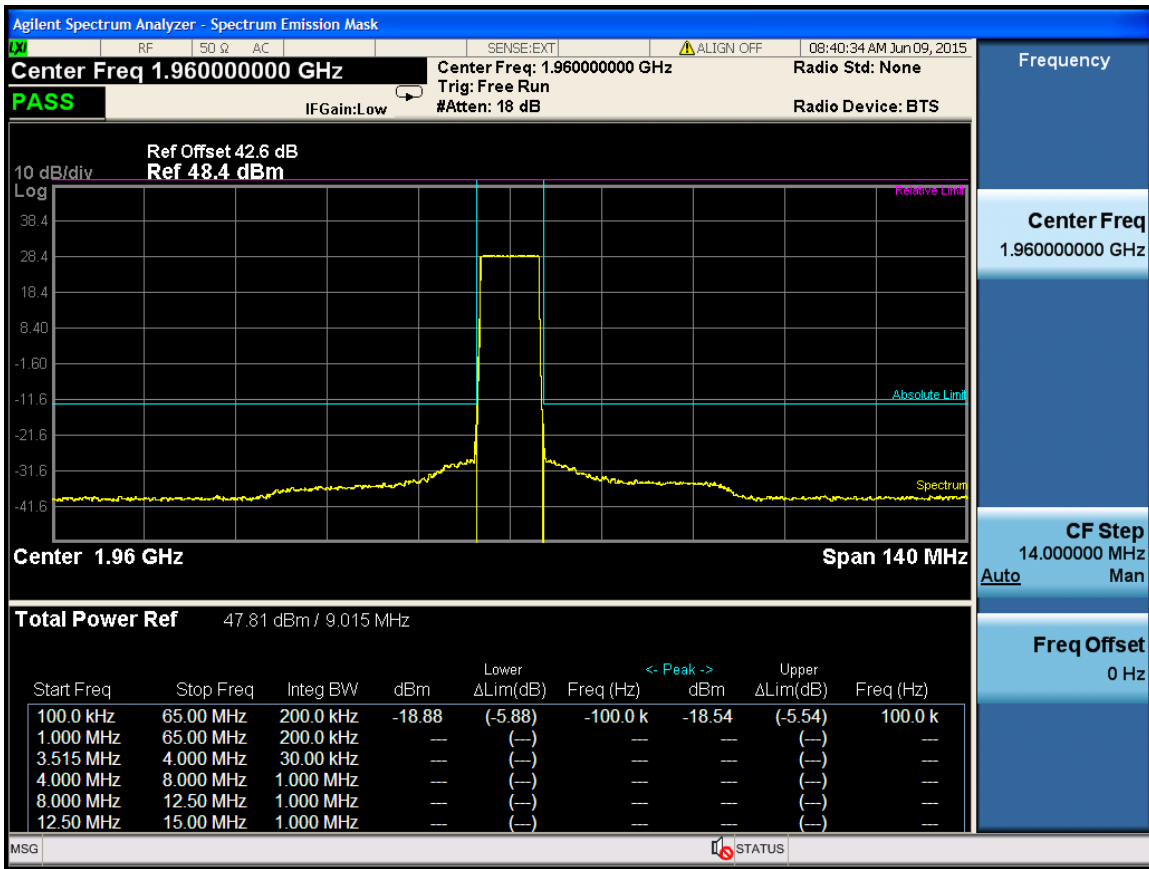
10M -Port 1 -1985MHz



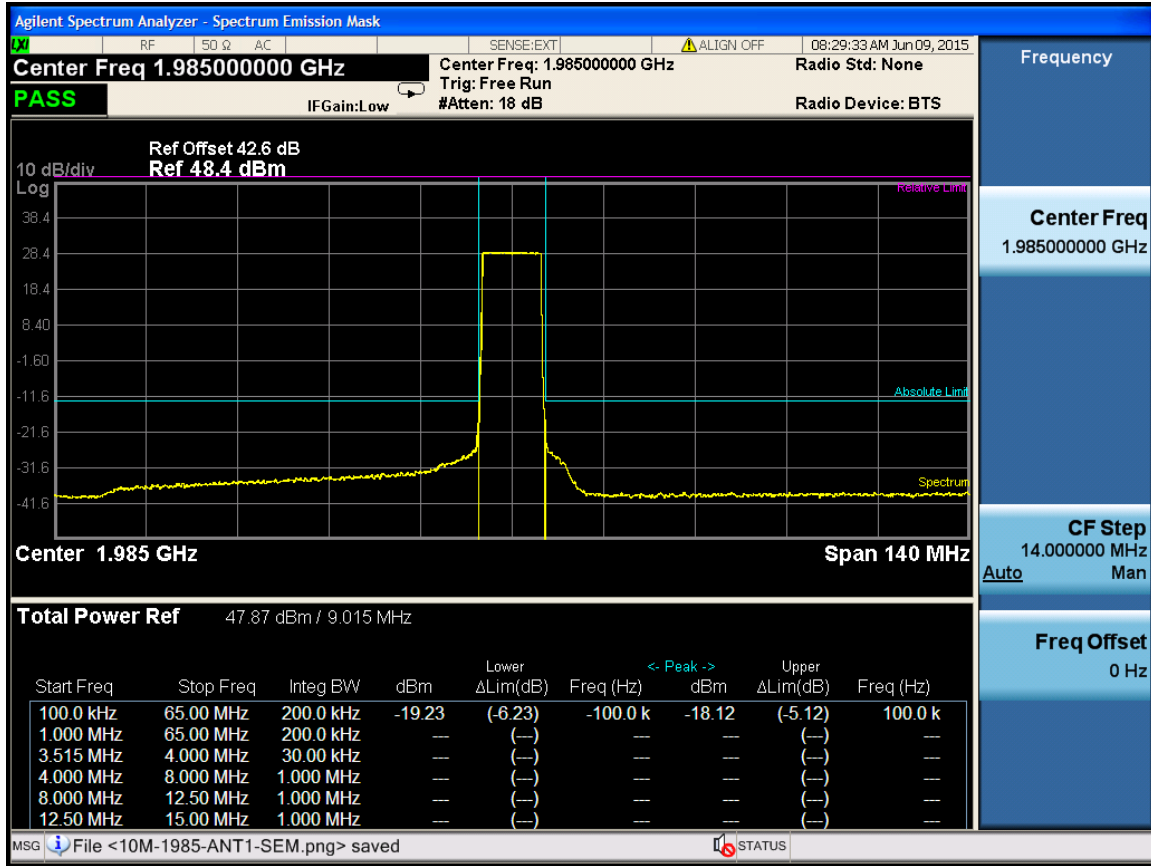
10M -Port 4 -1935MHz



10M -Port 4 -1960MHz



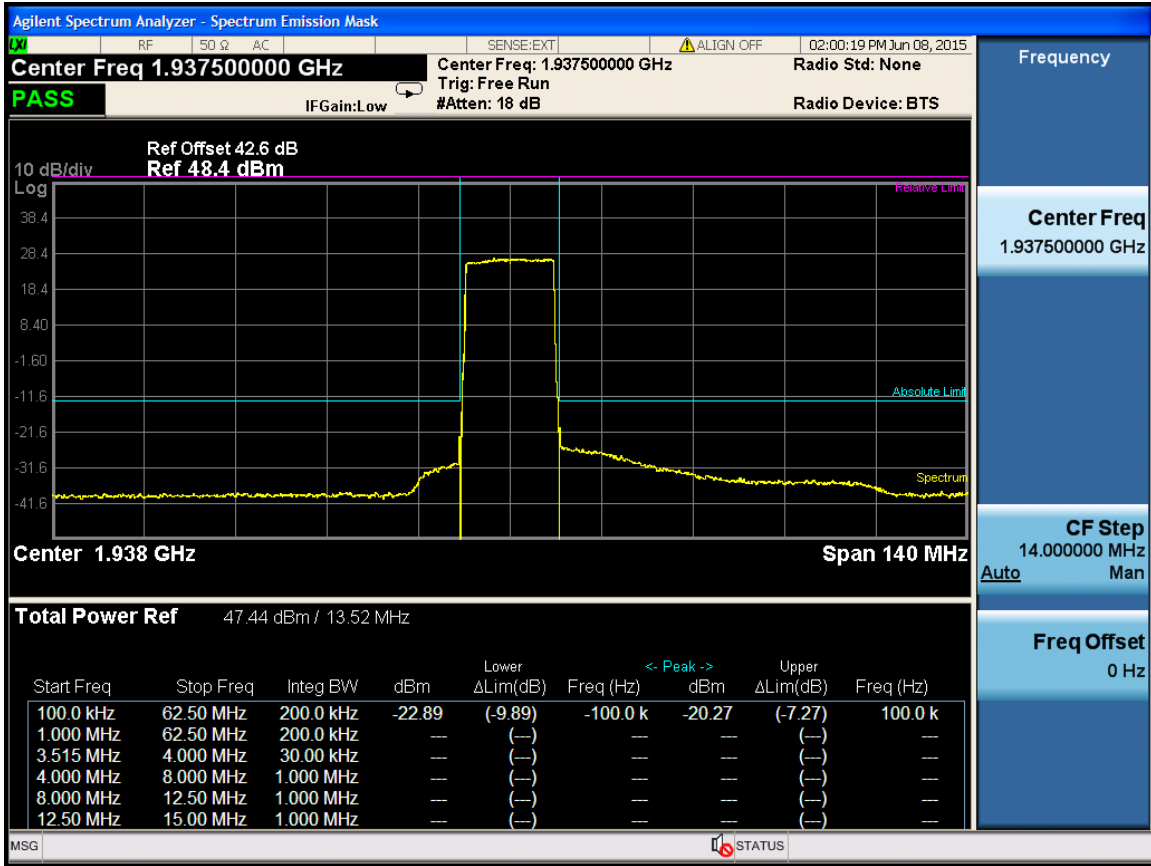
10M -Port 4 -1985MHz



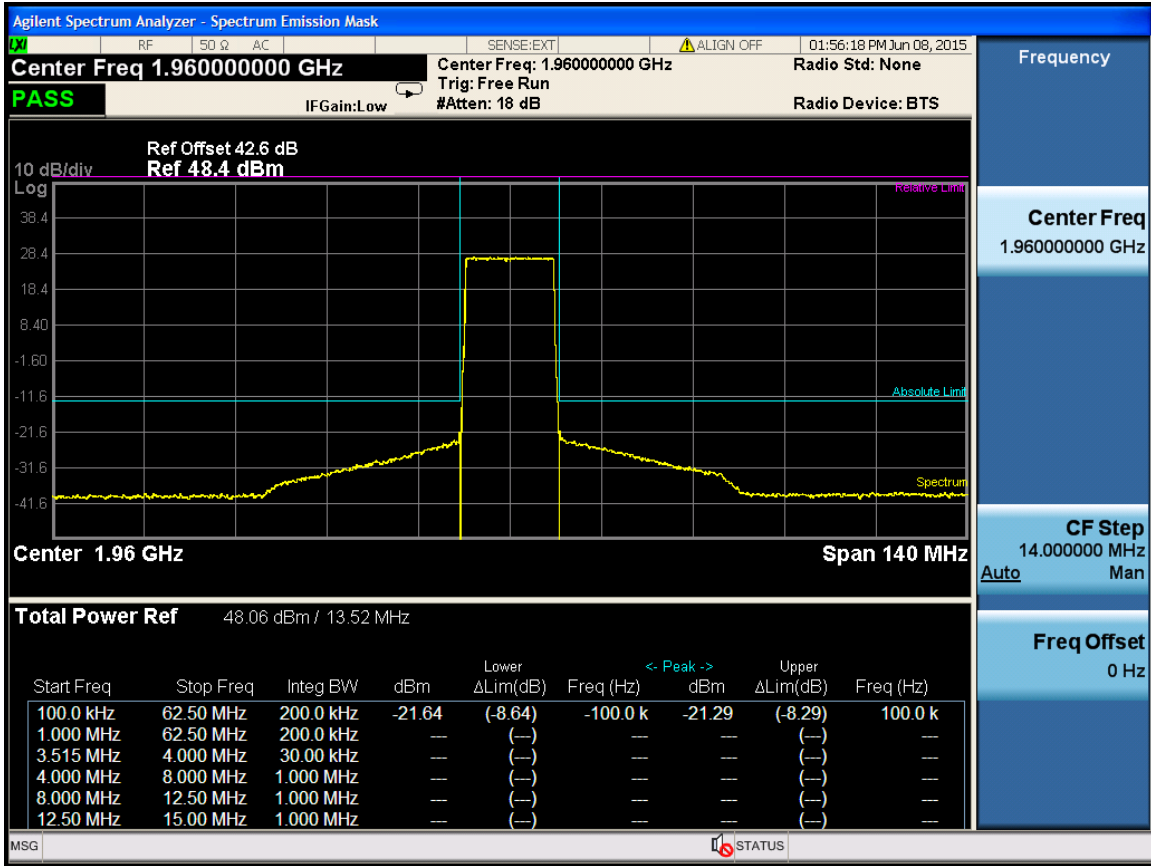
Channel Bandwidth :15M

Port	Center Freq. (MHz)	Max bandedge Emission (dBm)	Limit (dBm)
1	1937.5	-20.27	-13
	1960	-21.29	-13
	1982.5	-21.93	-13
4	1937.5	-21.42	-13
	1960	-22.39	-13
	1982.5	-21.42	-13

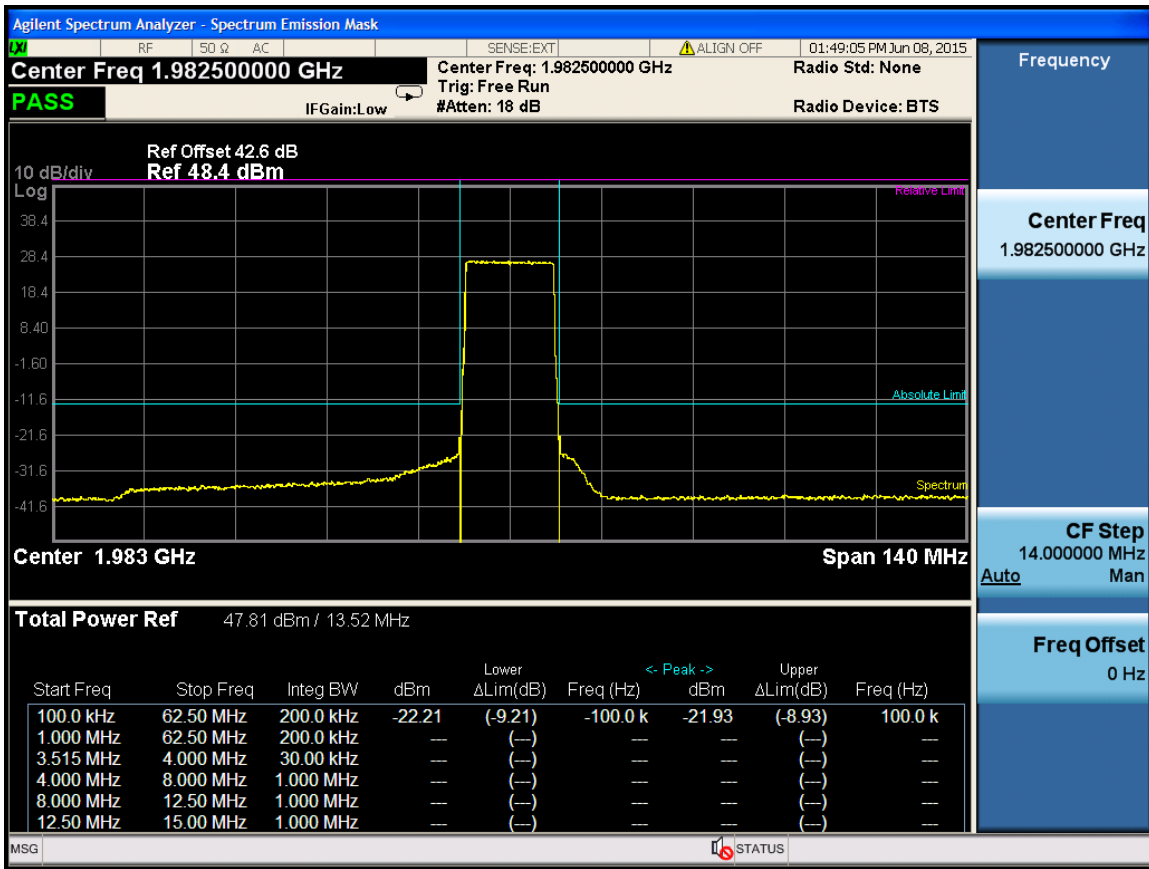
15M -Port 1 -1937.5MHz



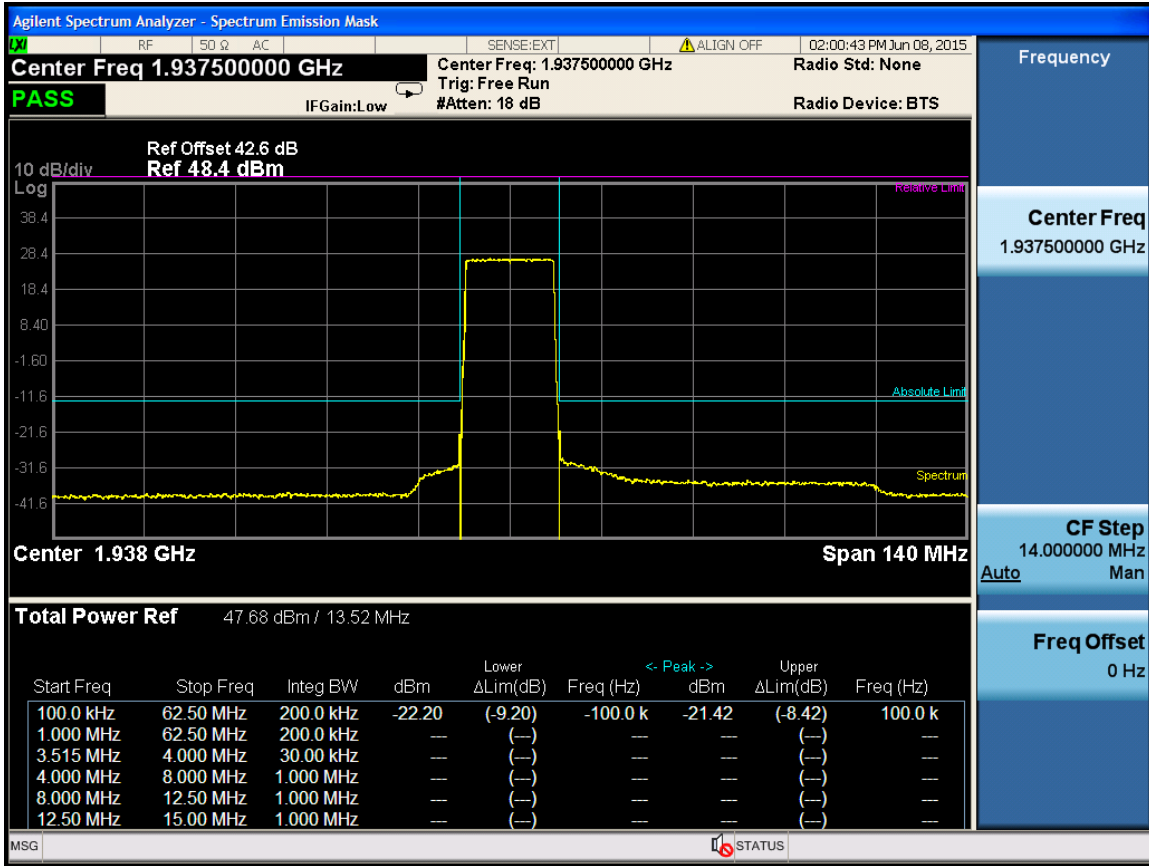
15M -Port 1 -1960MHz



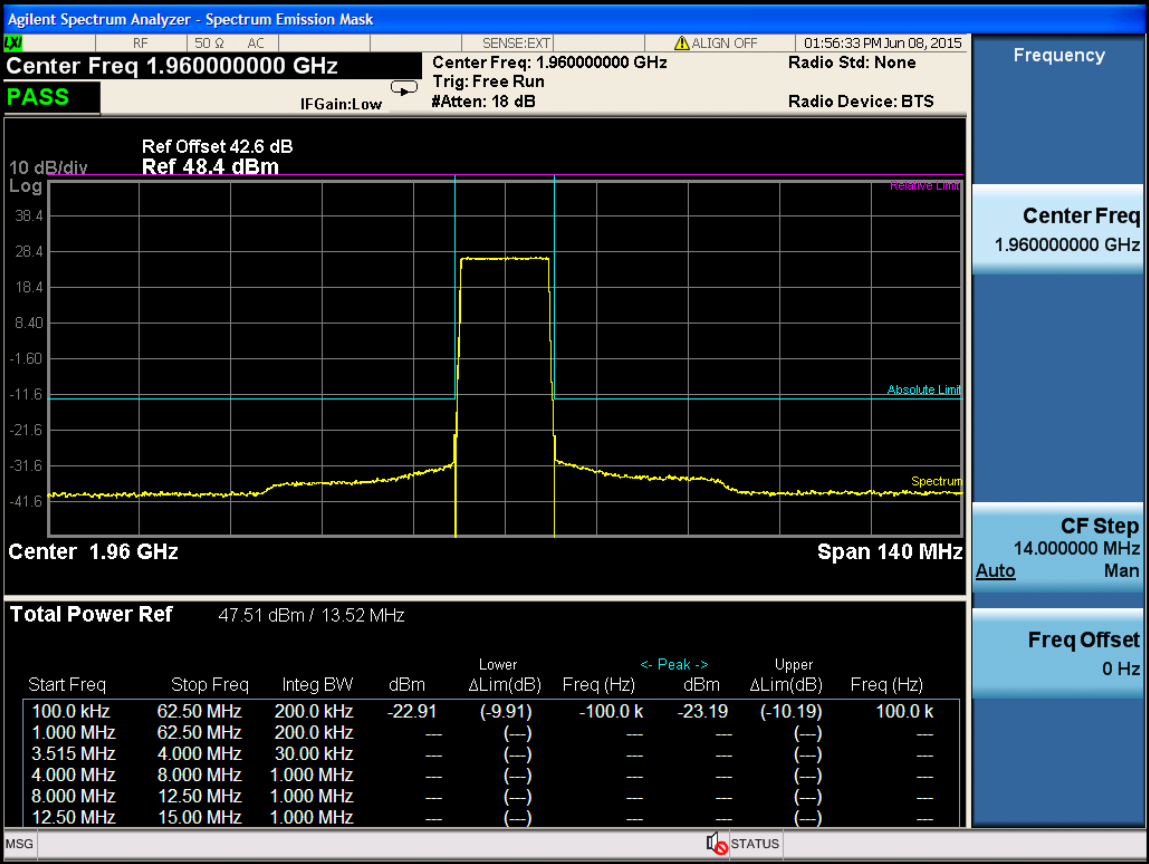
15M -Port 1 -1982.5MHz



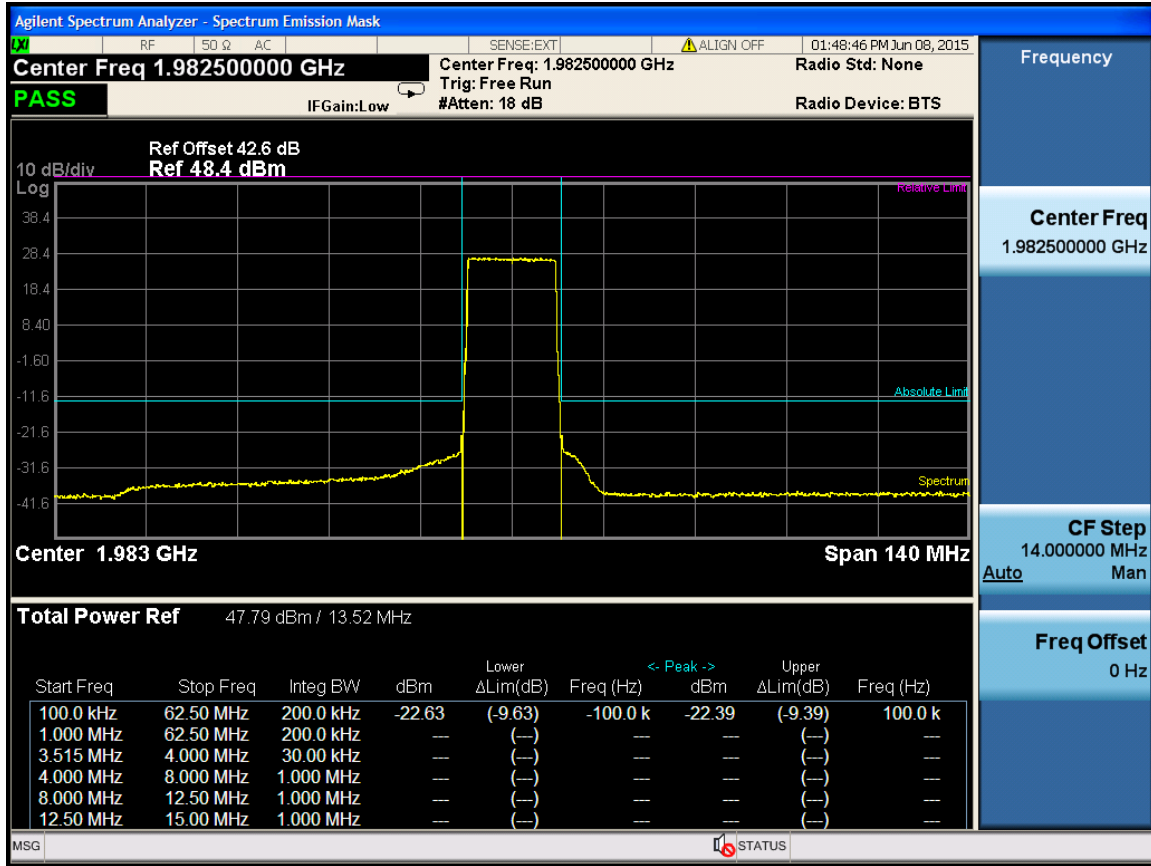
15M -Port 4 -1937.5MHz



15M -Port 4 -1960MHz



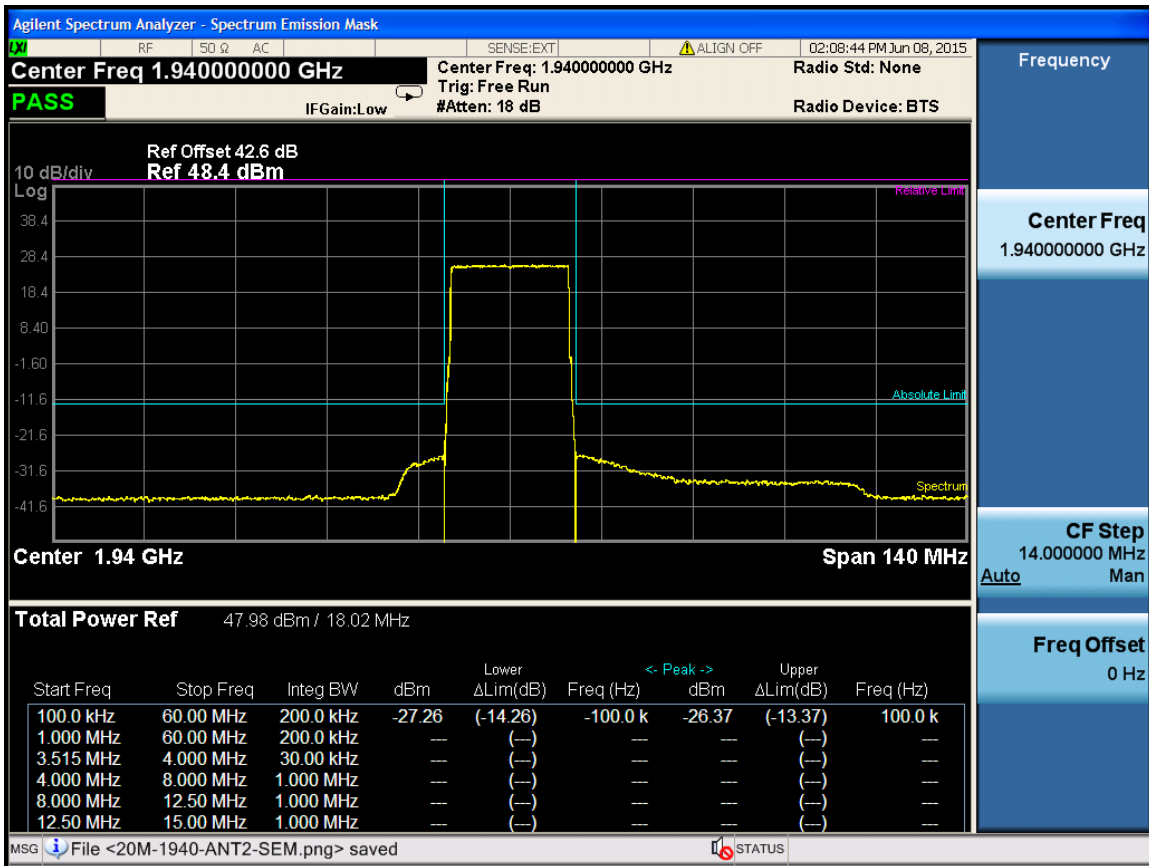
15M -Port 4 -1982.5MHz



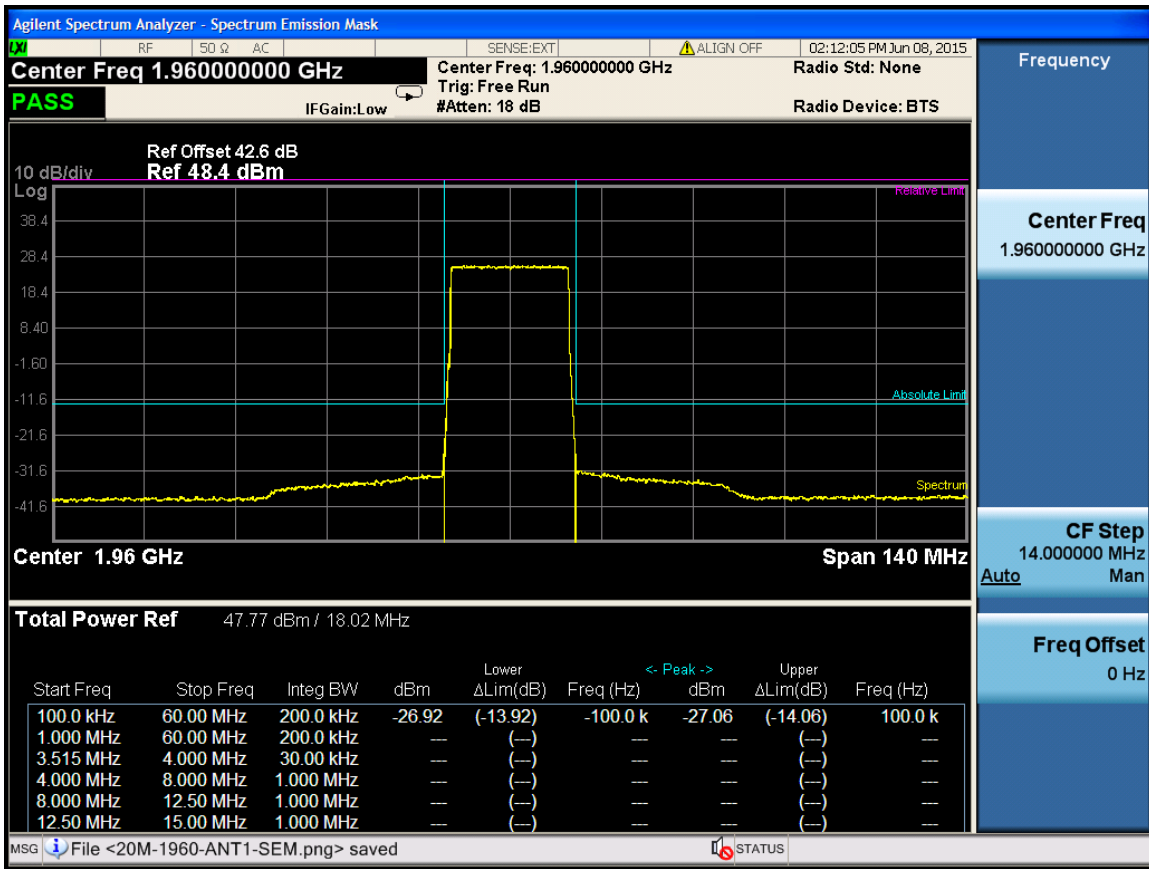
Channel Bandwidth :20M

Port	Center Freq. (MHz)	Max bandedge Emission (dBm)	Limit (dBm)
1	1940	-26.37	-13
	1960	-26.92	-13
	1980	-25.75	-13
2	1940	-24.95	-13
	1960	-22.15	-13
	1980	-25.52	-13

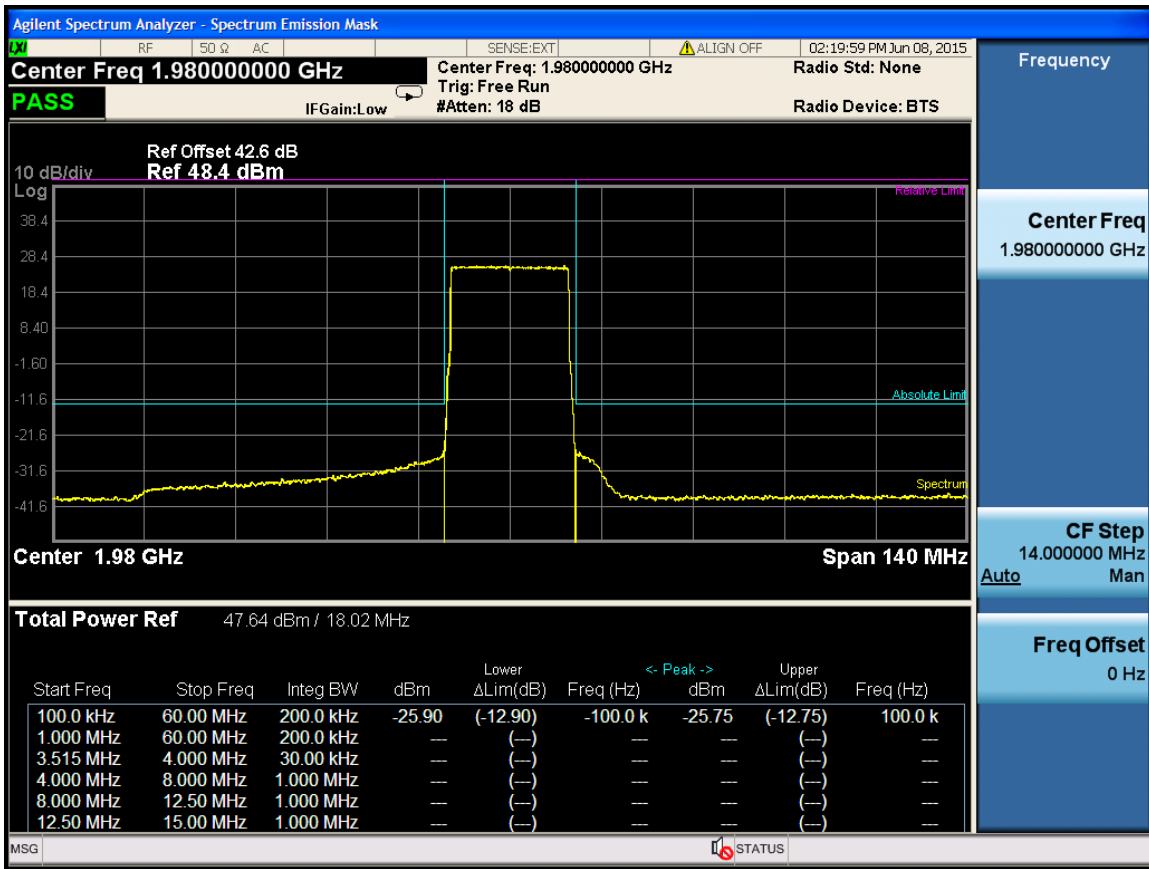
20M -Port 1 -1940MHz



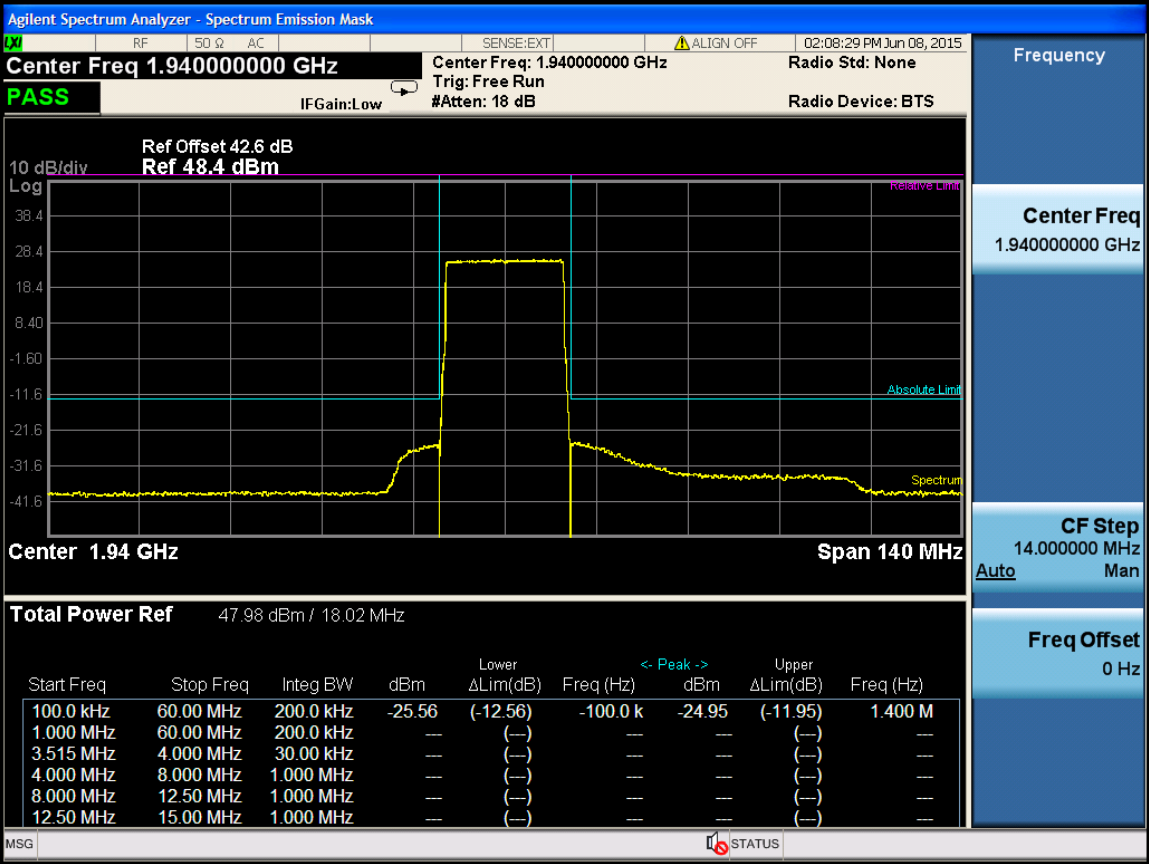
20M -Port 1 -1960MHz



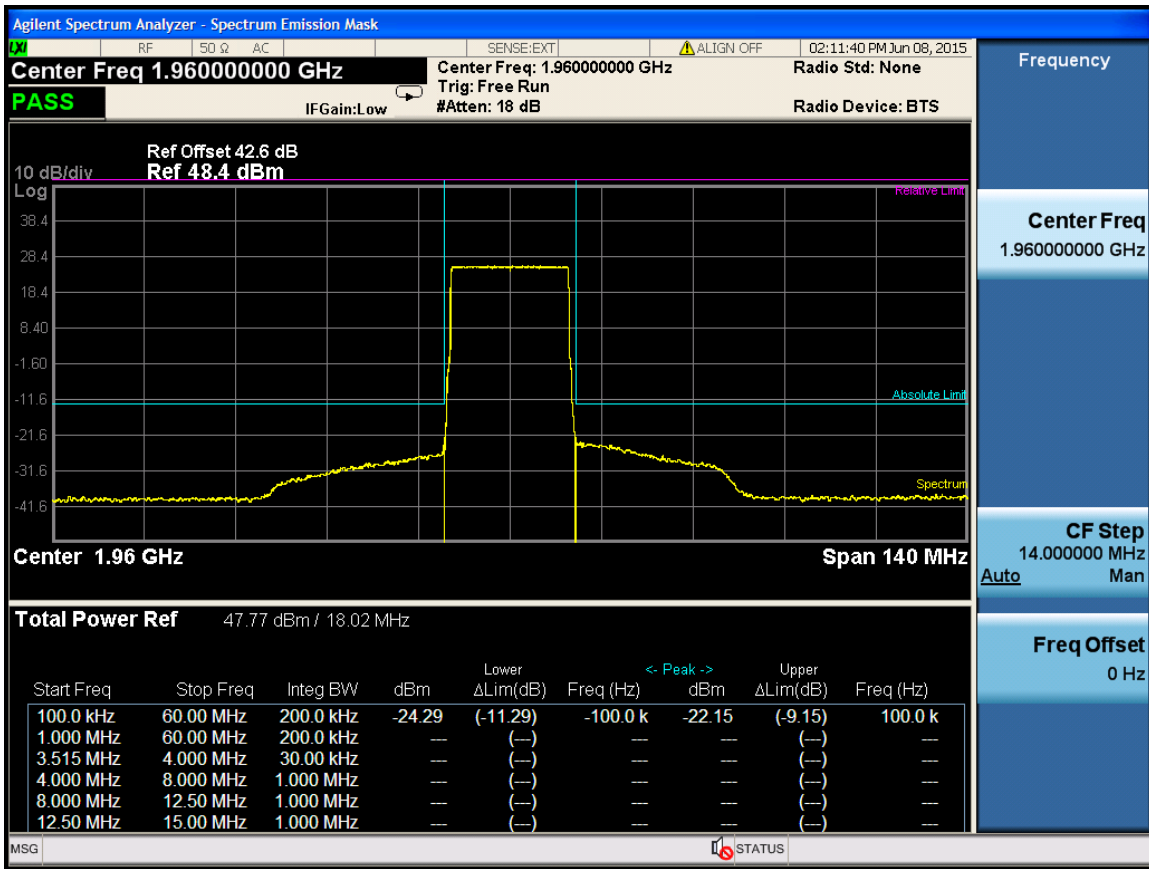
20M -Port 1 -1980MHz



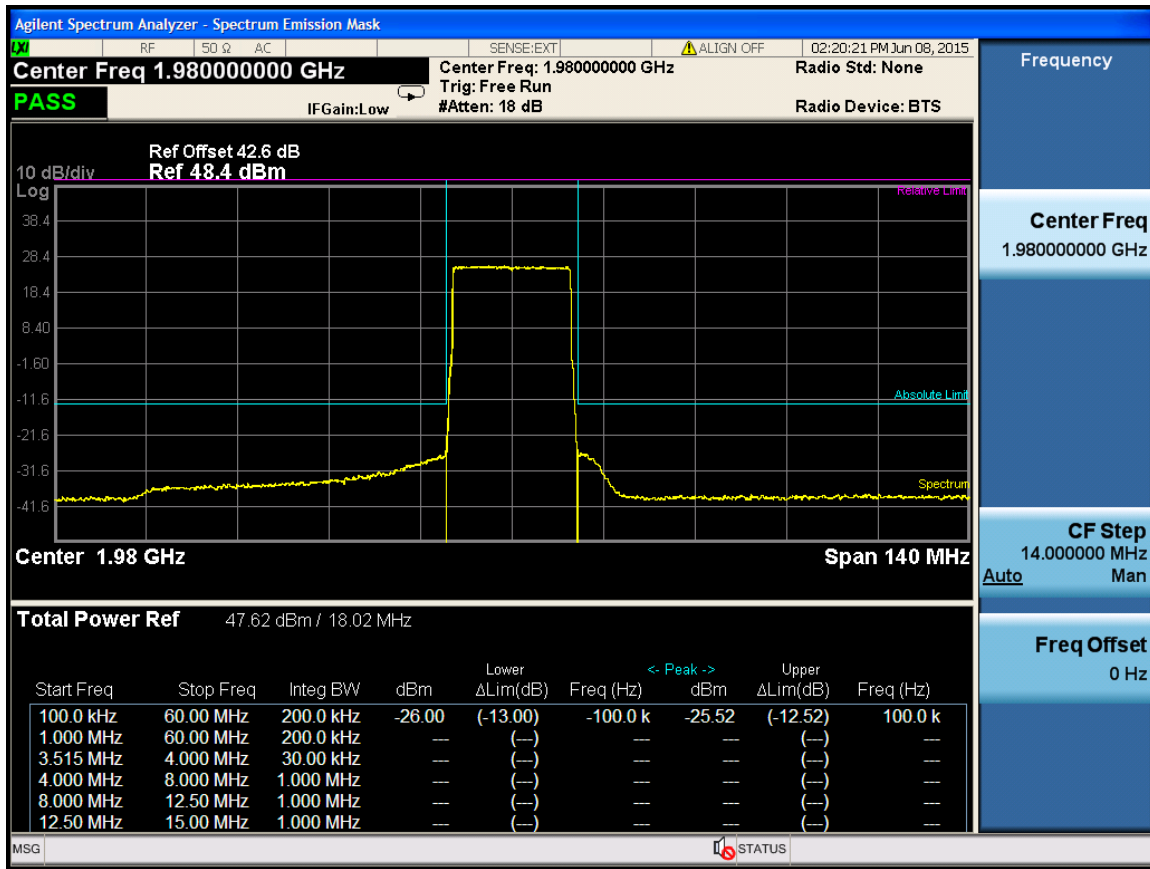
20M -Port 4 -1940MHz



20M -Port 4 -1960MHz



20M -Port 4 -1980MHz



12 FREQUENCY STABILITY

Applicable Standard: FCC § 2.1055, §24.235

Requirements: FCC § 2.1055 (a)(d), The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
GZ-ESPEC	Temperature Chamber	EW0470	06113028	2015.04.17	2016.04.17
Agilent	MXA Series Spectrum Analyzer	N9030A	MY49431143	2015.04.17	2016.04.17

DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2015.04.17	2016.04.17
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***statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Spectrum Analyzer via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 150 minutes, the frequency output was recorded from the counter.

Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

Environmental Conditions

Normal condition:	25° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Test Result: Pass

Test Mode: Transmitting LTE

Test Data

Frequency Stability Versus Temperature

Frequency Stability vs Temperature (Channel Bandwidth:20M Frequency :1960MHz)

Temperature (°C)	Power Supplied (V _{DC})	Port	Frequency Measure Error (Hz)	E-TM	Limit (ppm)	Limit (Hz)	Result
-40	-48	1	0.313	TM2.0	0.05	99.5	PASS
			0.292	TM3.1	0.05	99.5	PASS
			0.298	TM3.2	0.05	99.5	PASS
			0.221	TM3.3	0.05	99.5	PASS
		4	0.810	TM2.0	0.05	99.5	PASS
			0.123	TM3.1	0.05	99.5	PASS
			0.118	TM3.2	0.05	99.5	PASS
			1.530	TM3.3	0.05	99.5	PASS
-30		1	1.021	TM2.0	0.05	99.5	PASS
			0.423	TM3.1	0.05	99.5	PASS
			0.325	TM3.2	0.05	99.5	PASS
			0.381	TM3.3	0.05	99.5	PASS
		4	0.152	TM2.0	0.05	99.5	PASS
			1.687	TM3.1	0.05	99.5	PASS
			0.264	TM3.2	0.05	99.5	PASS
			0.328	TM3.3	0.05	99.5	PASS
-20		1	0.124	TM2.0	0.05	99.5	PASS
			0.510	TM3.1	0.05	99.5	PASS
			0.101	TM3.2	0.05	99.5	PASS
			0.493	TM3.3	0.05	99.5	PASS
		4	0.206	TM2.0	0.05	99.5	PASS
			0.114	TM3.1	0.05	99.5	PASS
			0.213	TM3.2	0.05	99.5	PASS
			0.323	TM3.3	0.05	99.5	PASS
-10		1	0.067	TM2.0	0.05	99.5	PASS
			0.057	TM3.1	0.05	99.5	PASS
			0.504	TM3.2	0.05	99.5	PASS
			0.156	TM3.3	0.05	99.5	PASS
		4	0.124	TM2.0	0.05	99.5	PASS
			0.156	TM3.1	0.05	99.5	PASS
			0.301	TM3.2	0.05	99.5	PASS
			0.156	TM3.3	0.05	99.5	PASS
0		1	0.068	TM2.0	0.05	99.5	PASS
			0.142	TM3.1	0.05	99.5	PASS
			0.230	TM3.2	0.05	99.5	PASS
			0.102	TM3.3	0.05	99.5	PASS

		2	0.150	TM2.0	0.05	99.5	PASS
			0.162	TM3.1	0.05	99.5	PASS
			0.580	TM3.2	0.05	99.5	PASS
			0.219	TM3.3	0.05	99.5	PASS
10		1	0.090	TM2.0	0.05	99.5	PASS
			0.233	TM3.1	0.05	99.5	PASS
			0.162	TM3.2	0.05	99.5	PASS
			0.090	TM3.3	0.05	99.5	PASS
		4	0.090	TM2.0	0.05	99.5	PASS
			0.162	TM3.1	0.05	99.5	PASS
			0.110	TM3.2	0.05	99.5	PASS
			0.172	TM3.3	0.05	99.5	PASS
20		1	0.302	TM2.0	0.05	99.5	PASS
			0.279	TM3.1	0.05	99.5	PASS
			0.827	TM3.2	0.05	99.5	PASS
			0.726	TM3.3	0.05	99.5	PASS
		4	1.650	TM2.0	0.05	99.5	PASS
			0.443	TM3.1	0.05	99.5	PASS
			0.842	TM3.2	0.05	99.5	PASS
			0.171	TM3.3	0.05	99.5	PASS
30		1	0.268	TM2.0	0.05	99.5	PASS
			0.856	TM3.1	0.05	99.5	PASS
			0.121	TM3.2	0.05	99.5	PASS
			0.107	TM3.3	0.05	99.5	PASS
		4	1.140	TM2.0	0.05	99.5	PASS
			1.103	TM3.1	0.05	99.5	PASS
			0.756	TM3.2	0.05	99.5	PASS
			0.259	TM3.3	0.05	99.5	PASS
40		1	0.121	TM2.0	0.05	99.5	PASS
			0.323	TM3.1	0.05	99.5	PASS
			0.234	TM3.2	0.05	99.5	PASS
			0.235	TM3.3	0.05	99.5	PASS
		4	0.785	TM2.0	0.05	99.5	PASS
			0.563	TM3.1	0.05	99.5	PASS
			0.233	TM3.2	0.05	99.5	PASS
			0.125	TM3.3	0.05	99.5	PASS
50		1	0.523	TM2.0	0.05	99.5	PASS
			0.962	TM3.1	0.05	99.5	PASS

55			0.354	TM3.2	0.05	99.5	PASS
			0.076	TM3.3	0.05	99.5	PASS
		4	1.923	TM2.0	0.05	99.5	PASS
			1.023	TM3.1	0.05	99.5	PASS
			0.564	TM3.2	0.05	99.5	PASS
			0.823	TM3.3	0.05	99.5	PASS
		1	0.612	TM2.0	0.05	99.5	PASS
			1.031	TM3.1	0.05	99.5	PASS
			0.345	TM3.2	0.05	99.5	PASS
			0.625	TM3.3	0.05	99.5	PASS
		4	1.239	TM2.0	0.05	99.5	PASS
			1.023	TM3.1	0.05	99.5	PASS
			0.420	TM3.2	0.05	99.5	PASS
			0.843	TM3.3	0.05	99.5	PASS

Frequency Stability Versus Voltage

Frequency Stability vs Voltage (Channel Bandwidth:20M Frequency :1960MHz)							
Power Supplied (V _{DC})	Temperature (°C)	Port	Frequency Measure Error (Hz)	E-TM	Limit (ppm)	Limit (Hz)	Result
-37	20	1	1.203	TM2.0	0.05	99.5	PASS
			0.321	TM3.1	0.05	99.5	PASS
			0.280	TM3.2	0.05	99.5	PASS
			0.127	TM3.3	0.05	99.5	PASS
		4	1.218	TM2.0	0.05	99.5	PASS
			1.317	TM3.1	0.05	99.5	PASS
			0.627	TM3.2	0.05	99.5	PASS
			0.127	TM3.3	0.05	99.5	PASS
-42	20	1	0.271	TM2.0	0.05	99.5	PASS
			0.754	TM3.1	0.05	99.5	PASS
			1.038	TM3.2	0.05	99.5	PASS
			2.531	TM3.3	0.05	99.5	PASS
		4	1.058	TM2.0	0.05	99.5	PASS
			0.323	TM3.1	0.05	99.5	PASS
			0.455	TM3.2	0.05	99.5	PASS

			0.567	TM3.3	0.05	99.5	PASS
-48		1	0.302	TM2.0	0.05	99.5	PASS
			0.279	TM3.1	0.05	99.5	PASS
			0.827	TM3.2	0.05	99.5	PASS
			0.726	TM3.3	0.05	99.5	PASS
		4	1.650	TM2.0	0.05	99.5	PASS
			0.443	TM3.1	0.05	99.5	PASS
			0.842	TM3.2	0.05	99.5	PASS
			0.171	TM3.3	0.05	99.5	PASS
-54		1	0.561	TM2.0	0.05	99.5	PASS
			0.785	TM3.1	0.05	99.5	PASS
			0.452	TM3.2	0.05	99.5	PASS
			1.9627	TM3.3	0.05	99.5	PASS
		4	0.560	TM2.0	0.05	99.5	PASS
			0.523	TM3.1	0.05	99.5	PASS
			0.442	TM3.2	0.05	99.5	PASS
			0.774	TM3.3	0.05	99.5	PASS
-60		1	0.573	TM2.0	0.05	99.5	PASS
			0.655	TM3.1	0.05	99.5	PASS
			0.235	TM3.2	0.05	99.5	PASS
			0.231	TM3.3	0.05	99.5	PASS
		4	0.413	TM2.0	0.05	99.5	PASS
			0.985	TM3.1	0.05	99.5	PASS
			0.654	TM3.2	0.05	99.5	PASS
			0.325	TM3.3	0.05	99.5	PASS