

FCC REPORT

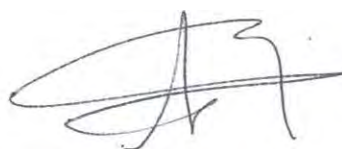
Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.**Date of Issue:**
June 11, 2018**Address:**
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea**Location of test lab:**
HCT CO., LTD.,
74, Seoicheon-ro 578beon-gil, Majang-myeon,
Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA**Report No.:** HCT-RF-1805-FC048-R1**FCC ID:** A3LMTP02P-41A**APPLICANT:** SAMSUNG Electronics Co.,Ltd.**Model:** MTP02P-41A
EUT Type: MMU(MTP02P)
Frequency Ranges: 2 496 MHz ~ 2 690 MHz
Tx Output Power: 160 W (2.5 W x 64 port)**Emission Designator:**

Mode	Emission Designator	
	QPSK (G7D)	16QAM/64QAM/256QAM (W7D)
LTE 20 MHz	18M0G7D	18M0W7D
LTE 15 MHz	13M6G7D	13M6W7D

Date of Test: May 4, 2018 ~ June 11, 2018**FCC Rule Part(s):** CFR 47 Part 2, Part 27

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

**Report prepared by : A Ram Han**
Engineer of telecommunication testing center**Approved by : Jong Seok Lee**
Manager of telecommunication testing center

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-1805-FC048	May 28, 2018	- First Approval Report
HCT-RF-1805-FC048-R1	June 11, 2018	- Modified the table of EIRP limit calculation to apply correct bandwidth conditions. (165 page) - Retested for unwanted conducted emissions in 9 kHz to 30 MHz band. : Added test equipment for emissions (12 page) : Corrected a note about applied RBW factor (1088 page) : Changed to re-tested data.(1089, 1091 ~ 1093 pages)

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1. GENERAL INFORMATION

1.1. APPLICANT INFORMATION

Company Name	Samsung Electronics Co., Ltd.
Company Address	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

1.2. PRODUCT INFORMATION

EUT Type	MMU(MTP02P)		
Power Supply	-48 VDC, 27 A		
Emission Designator	Mode	Emission Designator	
		QPSK (G7D)	16QAM/64QAM/256QAM (W7D)
	LTE 20 MHz	18M0G7D	18M0W7D
	LTE 15 MHz	13M6G7D	13M6W7D
Frequency Range	2 496 MHz ~ 2 690 MHz		
Tx Output Power	160 W (2.5 W x 64 port)		
Channel Bandwidths	LTE 20 MHz, LTE 15 MHz		
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM		
Antenna Specification	Service Beam Gain: 23 ± 0.5 dBi (32 Tx maximum gain condition)		

1.3. TEST INFORMATION

FCC Rule Parts	CFR 47 Part 2, Part 27
Measurement standards	ANSI C63.26-2015, KDB 662911 D01 v02r01
Place of Test	HCT CO., LTD. 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

2. FACILITIES AND ACCREDITATIONS

2.1. FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 (Version: 2014) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 07, 2015 (Registration Number: 90661).

2.2. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

3. TEST SPECIFICATIONS

3.1. STANDARDS

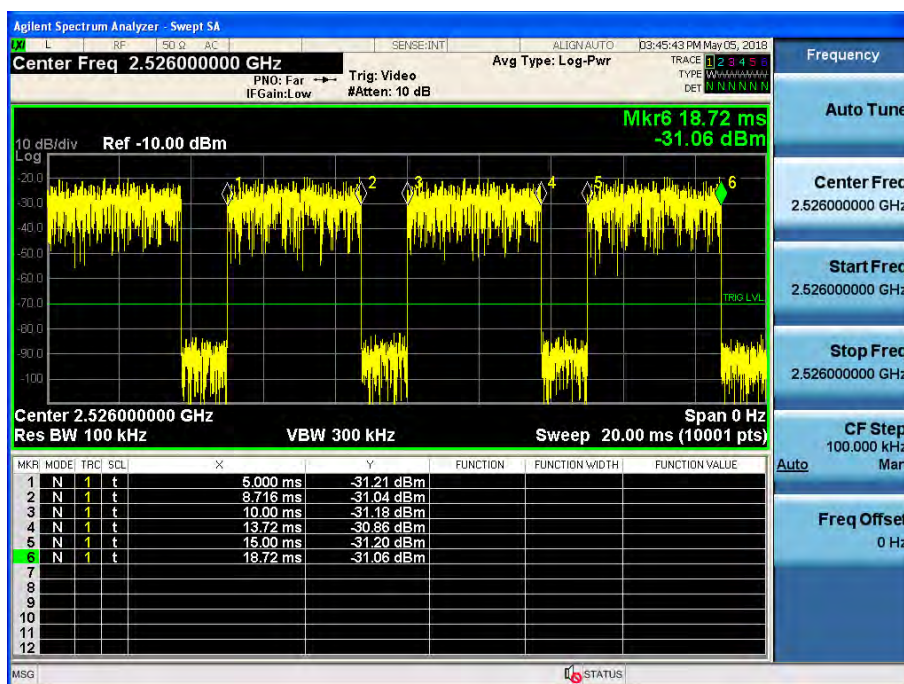
The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 2, Part 27

Description	Reference	Results
RF Output Power	§2.1046, §27.50(h)	Compliant
Occupied Bandwidth	§2.1049	Compliant
Unwanted Conducted Emissions	§2.1051, §27.53(m)	Compliant
Radiated Emissions	§2.1053, §27.53	Compliant
Frequency Stability	§2.1055, §27.54	Compliant

3.2. MODE OF OPERATION DURING THE TEST

- The EUT was operated in a manner representative of the typical usage of the equipment.
- During all testing, system components were manipulated within the confines of typical usage to maximize each emission.
- All LTE modulation types (QPSK, 16QAM, 64QAM, 256QAM) supported by the EUT have been tested.
- Unwanted conducted emissions were performed on one port with a maximum output power level.
- The dummy loads were connected to the RF output ports for radiated spurious emission testing.
- Because of the EUT using LTE-TDD technology, it cannot be configured to transmit continuously and measurement instrument cannot be configured to measure only during active transmissions. So we perform the measurement using duty cycle method.

Measurement Result of MTP02P-41A Transmit On/Off Timing



- The EUT duty cycle is calculated according to ANSI C63.26 - 5.2.4.3.4.

$$\text{Duty Cycle} = \text{On-time} / \text{Transmitter period} = 3.72 / 5 = 0.744$$

$$\text{Duty Correction} = 10 \log (1/\text{duty cycle}) = 10 \log (1/0.744) = 1.284 \text{ dB}$$

This duty correction factor is applied to output power measurement and unwanted conducted emissions.

- The tests results in plots are already including the actual value of loss for the attenuator and cable combination. Please check correction factors below table.
- The factor table contains additional 1.2 dB correction for test jig provide by applicant.

■ Correction Factor for In-Band Measurement

Port	Factor (dB)						
	2 300 MHz	2 400 MHz	2 500 MHz	2 600 MHz	2 700 MHz	2 800 MHz	2 900 MHz
0	34.969	35.090	35.099	35.127	35.264	35.252	35.309
1	34.961	35.031	35.030	35.056	35.188	35.124	35.185
2	34.897	34.977	34.982	34.998	35.108	35.066	35.115
3	34.806	34.838	34.835	34.828	34.918	34.872	34.932
4	34.935	35.035	35.041	35.022	35.099	35.049	35.175
5	35.216	35.334	35.334	35.329	35.447	35.416	35.446
6	35.149	35.274	35.279	35.317	35.410	35.396	35.444
7	34.903	34.974	34.990	35.025	35.171	35.147	35.214
8	35.126	35.243	35.262	35.345	35.395	35.388	35.434
9	35.129	35.252	35.277	35.320	35.467	35.463	35.534
10	35.080	35.179	35.193	35.225	35.334	35.342	35.425
11	35.035	35.140	35.169	35.236	35.371	35.368	35.409
12	35.128	35.254	35.275	35.309	35.425	35.474	35.563
13	35.089	35.179	35.196	35.182	35.298	35.260	35.324
14	35.080	35.214	35.219	35.290	35.378	35.416	35.501
15	35.090	35.239	35.196	35.286	35.329	35.328	35.403
16	34.980	35.092	35.101	35.162	35.264	35.249	35.283
17	35.025	35.124	35.097	35.117	35.226	35.169	35.215
18	35.057	35.160	35.192	35.239	35.355	35.358	35.397
19	35.087	35.178	35.194	35.199	35.264	35.204	35.241
20	35.152	35.274	35.282	35.342	35.441	35.441	35.544
21	35.116	35.161	35.178	35.259	35.310	35.285	35.372
22	35.236	35.404	35.399	35.446	35.587	35.598	35.716
23	34.981	35.091	35.113	35.125	35.269	35.245	35.341
24	35.270	35.419	35.412	35.463	35.598	35.597	35.682
25	34.806	34.864	34.903	34.907	35.069	35.042	35.128
26	34.886	34.981	34.963	34.977	35.115	35.072	35.142
27	35.179	35.314	35.319	35.415	35.511	35.499	35.567
28	34.985	35.104	35.095	35.099	35.221	35.192	35.268
29	35.261	35.399	35.371	35.475	35.578	35.571	35.645

Port	Factor (dB)						
	2 300 MHz	2 400 MHz	2 500 MHz	2 600 MHz	2 700 MHz	2 800 MHz	2 900 MHz
30	35.100	35.185	35.199	35.328	35.382	35.384	35.462
31	36.727	36.903	36.920	37.034	37.233	37.260	37.372
32	34.969	35.065	35.076	35.045	35.196	35.180	35.253
33	34.941	35.050	35.035	35.081	35.219	35.204	35.294
34	34.916	34.970	35.000	35.021	35.143	35.132	35.187
35	35.145	35.237	35.250	35.311	35.428	35.428	35.493
36	35.160	35.282	35.299	35.354	35.446	35.452	35.526
37	35.028	35.139	35.139	35.159	35.311	35.306	35.384
38	34.937	35.014	35.017	35.071	35.141	35.133	35.192
39	34.901	34.991	34.990	35.032	35.147	35.128	35.205
40	35.131	35.205	35.235	35.321	35.378	35.398	35.444
41	34.869	34.962	34.940	34.958	35.099	35.086	35.152
42	34.853	34.966	34.947	34.946	35.069	35.051	35.141
43	34.706	34.758	34.773	34.761	34.864	34.850	34.947
44	34.818	34.914	34.887	34.878	35.021	34.993	35.039
45	35.046	35.184	35.141	35.223	35.339	35.354	35.396
46	34.999	35.130	35.093	35.110	35.237	35.224	35.292
47	35.052	35.162	35.143	35.201	35.292	35.291	35.384
48	34.845	34.935	34.936	34.928	35.041	35.019	35.101
49	34.991	35.102	35.094	35.111	35.279	35.272	35.333
50	35.035	35.167	35.146	35.171	35.326	35.325	35.395
51	35.061	35.205	35.209	35.224	35.351	35.349	35.402
52	35.022	35.142	35.144	35.234	35.318	35.344	35.436
53	34.810	34.858	34.896	34.907	34.976	34.941	35.077
54	34.942	35.076	35.027	35.053	35.171	35.161	35.254
55	35.068	35.195	35.180	35.190	35.334	35.330	35.400
56	34.853	34.966	34.953	34.958	35.092	35.101	35.198
57	34.985	35.077	35.089	35.103	35.244	35.243	35.328
58	35.128	35.298	35.274	35.279	35.434	35.450	35.542
59	34.98	35.105	35.071	35.137	35.248	35.244	35.288
60	34.935	35.070	35.026	35.035	35.145	35.141	35.252
61	34.929	35.047	35.000	34.974	35.067	35.069	35.095
62	35.143	35.243	35.255	35.328	35.409	35.421	35.483
63	35.673	35.822	35.820	35.888	36.028	36.007	36.135

■ Correction Factor for Out-of-Band Measurement

Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
50	31.395	1 000	31.797	11 000	31.203	21 000	33.352
100	31.457	2 000	32.101	12 000	30.730	22 000	35.821
200	31.527	3 000	32.152	13 000	31.060	23 000	34.486
300	31.649	4 000	31.724	14 000	31.254	24 000	34.285
400	31.598	5 000	30.939	15 000	30.823	25 000	32.519
500	31.646	6 000	31.365	16 000	31.036	26 000	33.294
600	31.588	7 000	31.208	17 000	31.233	26 500	34.877
700	31.694	8 000	31.365	18 000	31.254		
800	31.772	9 000	31.207	19 000	32.229		
900	31.861	10 000	31.118	20 000	32.155		

3.3. MAXIMUM MEASUREMENT UNCERTAINTY

The value of the measurement uncertainty for the measurement of each parameter.

Coverage factor $k = 2$, Confidence levels of 95 %

Description	Condition	Uncertainty
RF Output Power	-	± 0.72 dB
Occupied Bandwidth	OBW ≤ 20 MHz	± 52 kHz
Unwanted Conducted Emissions	-	± 1.08 dB
Radiated Emissions	$f \leq 1$ GHz	± 4.80 dB
	$f > 1$ GHz	± 6.07 dB
Frequency Stability	-	$\pm 1.22 \times 10^{-6}$

3.4. STANDARDS ENVIRONMENTAL TEST CONDITIONS

Temperature :	+15 °C to +35 °C
Relative humidity:	30 % to 60 %
Air pressure	860 mbar to 1 060 mbar

4. TEST EQUIPMENTS

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Agilent	N9020A / Spectrum Analyzer	07/18/2017	Annual	MY49100060
Agilent	N9020A / Spectrum Analyzer	07/07/2017	Annual	MY51110068
Agilent	N9030A / Spectrum Analyzer	11/22/2017	Annual	MY49431210
AGILENT	8498A / Coaxial Attenuator	02/19/2018	Annual	51162
AGILENT	6674A / DC Power Supply	07/26/2017	Annual	3501A00901
KIKUSUI	PWR800L / DC Power Supply	02/27/2018	Annual	RE001149
Rohde&Schwarz	SMB100A / RF Signal Generator	07/18/2018	Annual	177633
KEITHLEY	S46 / Switch System	N/A	N/A	1088024
KEITHLEY	S46 / Switch System	N/A	N/A	1088025
NANGYEUL CO., LTD.	NY-THR18750 / Temperature and Humidity Chamber	10/21/2017	Annual	NY-2009012201A
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	BBHA 9120D / Horn Antenna	06/30/2017	Biennial	9120D-1300
Rohde & Schwarz	FSP / Spectrum Analyzer	09/21/2017	Annual	836650/016
Wainwright Instruments	WHKX10-900-1000-15000-40SS	07/21/2017	Annual	5
CERNEX	CBLU1183540 / Power Amplifier	01/03/2018	Annual	24613

5. RF OUTPUT POWER

FCC Rules

Test Requirements:

§ 2.1046 Measurements required: RF power output.

(a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in §2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

(b) For single sideband, independent sideband, and single channel, controlled carrier radiotelephone transmitters the procedure specified in paragraph (a) of this section shall be employed and, in addition, the transmitter shall be modulated during the test as specified and applicable in § 2.1046 (b) (1-5). In all tests, the input level of the modulating signal shall be such as to develop rated peak envelope power or carrier power, as appropriate, for the transmitter.

(c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations.

§ 27.50 Power limits and duty cycle.

(h) The following power limits shall apply in the BRS and EBS:

(1) Main, booster and base stations.

(i) The maximum EIRP of a main, booster or base station shall not exceed 33 dBW + 10log(X/Y) dBW, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition, except as provided in paragraph (h)(1)(ii) of this section.

(ii) If a main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern, the maximum EIRP in dBW in a given direction shall be determined by the following formula: $EIRP = 33 \text{ dBW} + 10 \log(X/Y) \text{ dBW} + 10 \log(360/\text{beamwidth}) \text{ dBW}$, where X is the actual channel width in MHz, Y is either (i) 6 MHz if prior to transition or the station is in the MBS following transition or (ii) 5.5 MHz if the station is in the LBS and UBS following transition, and beamwidth is the total horizontal plane beamwidth of the individual transmitting antenna for the station or any sector measured at the half-power points.

Test Procedures:

The measurement is performed in accordance with Section 5.2.4.4.2 of ANSI C63.26.

- a) Set span to $2 \times$ to $3 \times$ the OBW.
- b) Set RBW = 1% to 5% of the OBW.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e) Sweep time:
 - 1) Set = auto-couple, or
 - 2) Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ for single sweep (automation-compatible) measurement.
- f) Detector = power averaging (rms).
- g) Set sweep trigger to "free run."
- h) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- j) Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

Note:

- 1) Test was performed with test jig provided by applicant.
- 2) The conducted emission level is measured at each antenna port and then summed mathematically to determine the total emission level from the device.
- 3) Maximum ERP is sufficient level to pass the limit.
- 4) Sum data is in a tolerance of specification provided from manufacturer.

RF Output power tolerance: ± 1 dB (each port)

Maximum output power for one port: 3.147 W (33.98 dBm + 1 dB)

Maximum output sum power: $3.147 \text{ W} \times 64 = 201.408 \text{ W}$

Measured sum maximum power: 172.691 W

The measured value is lower than the specification value.

Test Results:
20 MHz Bandwidth / 1 Carrier

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 0	QPSK	Low	2 506.00	29.38	0.867
		Middle	2 593.00	29.70	0.933
		High	2 680.00	29.21	0.834
	16QAM	Low	2 506.00	29.29	0.849
		Middle	2 593.00	29.99	0.998
		High	2 680.00	29.22	0.836
	64QAM	Low	2 506.00	29.56	0.904
		Middle	2 593.00	30.19	1.045
		High	2 680.00	29.51	0.893
	256QAM	Low	2 506.00	29.29	0.849
		Middle	2 593.00	29.97	0.993
		High	2 680.00	29.45	0.881
Port 1	QPSK	Low	2 506.00	29.14	0.820
		Middle	2 593.00	29.85	0.966
		High	2 680.00	29.13	0.818
	16QAM	Low	2 506.00	29.35	0.861
		Middle	2 593.00	30.02	1.005
		High	2 680.00	29.43	0.877
	64QAM	Low	2 506.00	29.43	0.877
		Middle	2 593.00	30.02	1.005
		High	2 680.00	29.29	0.849
	256QAM	Low	2 506.00	29.67	0.927
		Middle	2 593.00	30.04	1.009
		High	2 680.00	29.20	0.832
Port 2	QPSK	Low	2 506.00	29.43	0.877
		Middle	2 593.00	29.91	0.979
		High	2 680.00	29.39	0.869
	16QAM	Low	2 506.00	29.51	0.893
		Middle	2 593.00	30.17	1.040
		High	2 680.00	29.57	0.906

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 506.00	29.52	0.895
		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.50	0.891
	256QAM	Low	2 506.00	29.50	0.891
		Middle	2 593.00	30.07	1.016
		High	2 680.00	29.38	0.867
Port 3	QPSK	Low	2 506.00	29.21	0.834
		Middle	2 593.00	29.96	0.991
		High	2 680.00	29.17	0.826
	16QAM	Low	2 506.00	29.53	0.897
		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.60	0.912
	64QAM	Low	2 506.00	29.58	0.908
		Middle	2 593.00	30.05	1.012
		High	2 680.00	29.72	0.938
	256QAM	Low	2 506.00	29.49	0.889
		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.55	0.902
Port 4	QPSK	Low	2 506.00	29.09	0.811
		Middle	2 593.00	29.75	0.944
		High	2 680.00	28.76	0.752
	16QAM	Low	2 506.00	29.31	0.853
		Middle	2 593.00	29.98	0.995
		High	2 680.00	29.20	0.832
	64QAM	Low	2 506.00	29.38	0.867
		Middle	2 593.00	29.75	0.944
		High	2 680.00	29.29	0.849
	256QAM	Low	2 506.00	29.33	0.857
		Middle	2 593.00	29.85	0.966
		High	2 680.00	29.28	0.847
Port 5	QPSK	Low	2 506.00	29.24	0.839
		Middle	2 593.00	29.64	0.920

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 680.00	29.33	0.857
		Low	2 506.00	29.40	0.871
		Middle	2 593.00	29.70	0.933
		High	2 680.00	29.43	0.877
	64QAM	Low	2 506.00	29.53	0.897
		Middle	2 593.00	29.95	0.989
		High	2 680.00	29.60	0.912
	256QAM	Low	2 506.00	29.39	0.869
		Middle	2 593.00	29.75	0.944
		High	2 680.00	29.46	0.883
Port 6	QPSK	Low	2 506.00	29.22	0.836
		Middle	2 593.00	29.92	0.982
		High	2 680.00	29.52	0.895
	16QAM	Low	2 506.00	29.51	0.893
		Middle	2 593.00	29.70	0.933
		High	2 680.00	29.52	0.895
	64QAM	Low	2 506.00	29.54	0.899
		Middle	2 593.00	29.91	0.979
		High	2 680.00	29.44	0.879
	256QAM	Low	2 506.00	29.27	0.845
		Middle	2 593.00	29.98	0.995
		High	2 680.00	29.57	0.906
Port 7	QPSK	Low	2 506.00	29.49	0.889
		Middle	2 593.00	29.54	0.899
		High	2 680.00	29.20	0.832
	16QAM	Low	2 506.00	29.30	0.851
		Middle	2 593.00	29.80	0.955
		High	2 680.00	29.52	0.895
	64QAM	Low	2 506.00	29.27	0.845
		Middle	2 593.00	29.88	0.973
		High	2 680.00	29.41	0.873
	256QAM	Low	2 506.00	29.40	0.871

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 8		Middle	2 593.00	29.85	0.966
		High	2 680.00	29.41	0.873
		Low	2 506.00	29.37	0.865
	QPSK	Middle	2 593.00	29.86	0.968
		High	2 680.00	29.47	0.885
		Low	2 506.00	29.57	0.906
	16QAM	Middle	2 593.00	29.91	0.979
		High	2 680.00	29.56	0.904
		Low	2 506.00	29.30	0.851
	64QAM	Middle	2 593.00	30.16	1.038
		High	2 680.00	29.46	0.883
		Low	2 506.00	29.64	0.920
	256QAM	Middle	2 593.00	29.91	0.979
		High	2 680.00	29.61	0.914
		Low	2 506.00	29.26	0.843
Port 9	QPSK	Middle	2 593.00	29.76	0.946
		High	2 680.00	29.26	0.843
		Low	2 506.00	29.30	0.851
	16QAM	Middle	2 593.00	29.89	0.975
		High	2 680.00	29.47	0.885
		Low	2 506.00	29.63	0.918
	64QAM	Middle	2 593.00	30.11	1.026
		High	2 680.00	29.45	0.881
		Low	2 506.00	29.50	0.891
	256QAM	Middle	2 593.00	30.12	1.028
		High	2 680.00	29.49	0.889
		Low	2 506.00	29.37	0.865
Port 10	QPSK	Middle	2 593.00	29.90	0.977
		High	2 680.00	29.40	0.871
		Low	2 506.00	29.61	0.914
	16QAM	Middle	2 593.00	29.88	0.973
		High	2 680.00	29.42	0.875
		Low	2 506.00	29.37	0.865

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 506.00	29.51	0.893
		Middle	2 593.00	29.93	0.984
		High	2 680.00	29.33	0.857
	256QAM	Low	2 506.00	29.69	0.931
		Middle	2 593.00	29.85	0.966
		High	2 680.00	29.24	0.839
Port 11	QPSK	Low	2 506.00	29.33	0.857
		Middle	2 593.00	30.03	1.007
		High	2 680.00	29.50	0.891
	16QAM	Low	2 506.00	29.58	0.908
		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.41	0.873
	64QAM	Low	2 506.00	29.62	0.916
		Middle	2 593.00	30.02	1.005
		High	2 680.00	29.67	0.927
	256QAM	Low	2 506.00	29.61	0.914
		Middle	2 593.00	30.17	1.040
		High	2 680.00	29.29	0.849
Port 12	QPSK	Low	2 506.00	29.41	0.873
		Middle	2 593.00	29.88	0.973
		High	2 680.00	29.38	0.867
	16QAM	Low	2 506.00	29.61	0.914
		Middle	2 593.00	30.18	1.042
		High	2 680.00	29.30	0.851
	64QAM	Low	2 506.00	29.46	0.883
		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.53	0.897
	256QAM	Low	2 506.00	29.44	0.879
		Middle	2 593.00	30.02	1.005
		High	2 680.00	29.45	0.881
Port 13	QPSK	Low	2 506.00	29.55	0.902
		Middle	2 593.00	29.47	0.885

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 680.00	29.19	0.830
		Low	2 506.00	29.49	0.889
		Middle	2 593.00	29.90	0.977
		High	2 680.00	29.34	0.859
	64QAM	Low	2 506.00	29.58	0.908
		Middle	2 593.00	29.91	0.979
		High	2 680.00	29.21	0.834
	256QAM	Low	2 506.00	29.62	0.916
		Middle	2 593.00	29.84	0.964
		High	2 680.00	29.44	0.879
Port 14	QPSK	Low	2 506.00	29.40	0.871
		Middle	2 593.00	29.80	0.955
		High	2 680.00	29.40	0.871
	16QAM	Low	2 506.00	29.66	0.925
		Middle	2 593.00	29.94	0.986
		High	2 680.00	29.46	0.883
	64QAM	Low	2 506.00	29.47	0.885
		Middle	2 593.00	29.90	0.977
		High	2 680.00	29.48	0.887
	256QAM	Low	2 506.00	29.50	0.891
		Middle	2 593.00	29.89	0.975
		High	2 680.00	29.61	0.914
Port 15	QPSK	Low	2 506.00	29.41	0.873
		Middle	2 593.00	29.92	0.982
		High	2 680.00	29.67	0.927
	16QAM	Low	2 506.00	29.39	0.869
		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.69	0.931
	64QAM	Low	2 506.00	29.81	0.957
		Middle	2 593.00	30.13	1.030
		High	2 680.00	29.70	0.933
	256QAM	Low	2 506.00	29.43	0.877

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 16		Middle	2 593.00	30.01	1.002
		High	2 680.00	29.78	0.951
		Low	2 506.00	29.28	0.847
	QPSK	Middle	2 593.00	29.97	0.993
		High	2 680.00	29.45	0.881
		Low	2 506.00	29.43	0.877
	16QAM	Middle	2 593.00	30.03	1.007
		High	2 680.00	29.58	0.908
		Low	2 506.00	29.40	0.871
	64QAM	Middle	2 593.00	30.14	1.033
		High	2 680.00	29.74	0.942
		Low	2 506.00	29.44	0.879
	256QAM	Middle	2 593.00	30.16	1.038
		High	2 680.00	29.57	0.906
		Low	2 506.00	29.29	0.849
Port 17	QPSK	Middle	2 593.00	30.00	1.000
		High	2 680.00	29.65	0.923
		Low	2 506.00	29.35	0.861
	16QAM	Middle	2 593.00	29.96	0.991
		High	2 680.00	29.70	0.933
		Low	2 506.00	29.37	0.865
	64QAM	Middle	2 593.00	29.87	0.971
		High	2 680.00	29.82	0.959
		Low	2 506.00	29.05	0.804
	256QAM	Middle	2 593.00	30.18	1.042
		High	2 680.00	29.62	0.916
		Low	2 506.00	29.50	0.891
Port 18	QPSK	Middle	2 593.00	29.77	0.948
		High	2 680.00	29.47	0.885
		Low	2 506.00	29.60	0.912
	16QAM	Middle	2 593.00	30.00	1.000
		High	2 680.00	29.76	0.946
		Low	2 506.00	29.50	0.891

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 506.00	29.57	0.906
		Middle	2 593.00	29.96	0.991
		High	2 680.00	29.72	0.938
	256QAM	Low	2 506.00	29.46	0.883
		Middle	2 593.00	29.98	0.995
		High	2 680.00	29.84	0.964
Port 19	QPSK	Low	2 506.00	29.56	0.904
		Middle	2 593.00	29.67	0.927
		High	2 680.00	29.65	0.923
	16QAM	Low	2 506.00	29.73	0.940
		Middle	2 593.00	29.91	0.979
		High	2 680.00	29.63	0.918
	64QAM	Low	2 506.00	29.70	0.933
		Middle	2 593.00	29.88	0.973
		High	2 680.00	29.69	0.931
	256QAM	Low	2 506.00	29.61	0.914
		Middle	2 593.00	30.10	1.023
		High	2 680.00	29.60	0.912
Port 20	QPSK	Low	2 506.00	29.53	0.897
		Middle	2 593.00	29.82	0.959
		High	2 680.00	29.45	0.881
	16QAM	Low	2 506.00	29.68	0.929
		Middle	2 593.00	29.81	0.957
		High	2 680.00	29.53	0.897
	64QAM	Low	2 506.00	29.77	0.948
		Middle	2 593.00	30.20	1.047
		High	2 680.00	29.64	0.920
	256QAM	Low	2 506.00	29.66	0.925
		Middle	2 593.00	30.00	1.000
		High	2 680.00	29.58	0.908
Port 21	QPSK	Low	2 506.00	29.47	0.885
		Middle	2 593.00	29.62	0.916

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 680.00	29.65	0.923
		Low	2 506.00	29.44	0.879
		Middle	2 593.00	29.74	0.942
		High	2 680.00	29.61	0.914
	64QAM	Low	2 506.00	29.72	0.938
		Middle	2 593.00	29.99	0.998
		High	2 680.00	29.76	0.946
	256QAM	Low	2 506.00	29.64	0.920
		Middle	2 593.00	29.96	0.991
		High	2 680.00	29.78	0.951
Port 22	QPSK	Low	2 506.00	29.36	0.863
		Middle	2 593.00	29.41	0.873
		High	2 680.00	29.50	0.891
	16QAM	Low	2 506.00	29.46	0.883
		Middle	2 593.00	29.63	0.918
		High	2 680.00	29.63	0.918
	64QAM	Low	2 506.00	29.52	0.895
		Middle	2 593.00	29.91	0.979
		High	2 680.00	29.70	0.933
	256QAM	Low	2 506.00	29.63	0.918
		Middle	2 593.00	29.82	0.959
		High	2 680.00	29.61	0.914
Port 23	QPSK	Low	2 506.00	29.41	0.873
		Middle	2 593.00	29.75	0.944
		High	2 680.00	29.54	0.899
	16QAM	Low	2 506.00	29.65	0.923
		Middle	2 593.00	29.72	0.938
		High	2 680.00	29.75	0.944
	64QAM	Low	2 506.00	29.60	0.912
		Middle	2 593.00	30.07	1.016
		High	2 680.00	29.58	0.908
	256QAM	Low	2 506.00	29.56	0.904

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 24		Middle	2 593.00	29.92	0.982
		High	2 680.00	29.65	0.923
		Low	2 506.00	29.45	0.881
	QPSK	Middle	2 593.00	29.89	0.975
		High	2 680.00	29.43	0.877
		Low	2 506.00	29.65	0.923
	16QAM	Middle	2 593.00	30.15	1.035
		High	2 680.00	29.60	0.912
		Low	2 506.00	29.90	0.977
	64QAM	Middle	2 593.00	30.12	1.028
		High	2 680.00	29.63	0.918
		Low	2 506.00	29.62	0.916
	256QAM	Middle	2 593.00	30.17	1.040
		High	2 680.00	29.52	0.895
		Low	2 506.00	29.62	0.916
Port 25	QPSK	Low	2 506.00	29.62	0.916
		Middle	2 593.00	29.75	0.944
		High	2 680.00	29.20	0.832
	16QAM	Low	2 506.00	29.62	0.916
		Middle	2 593.00	30.09	1.021
		High	2 680.00	29.35	0.861
	64QAM	Low	2 506.00	29.88	0.973
		Middle	2 593.00	30.07	1.016
		High	2 680.00	29.30	0.851
	256QAM	Low	2 506.00	29.74	0.942
		Middle	2 593.00	29.88	0.973
		High	2 680.00	29.35	0.861
Port 26	QPSK	Low	2 506.00	29.47	0.885
		Middle	2 593.00	29.93	0.984
		High	2 680.00	29.49	0.889
	16QAM	Low	2 506.00	29.56	0.904
		Middle	2 593.00	30.17	1.040
		High	2 680.00	29.57	0.906

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 506.00	29.71	0.935
		Middle	2 593.00	29.88	0.973
		High	2 680.00	29.64	0.920
	256QAM	Low	2 506.00	29.48	0.887
		Middle	2 593.00	30.01	1.002
		High	2 680.00	29.58	0.908
Port 27	QPSK	Low	2 506.00	29.30	0.851
		Middle	2 593.00	29.91	0.979
		High	2 680.00	29.60	0.912
	16QAM	Low	2 506.00	29.57	0.906
		Middle	2 593.00	29.33	0.857
		High	2 680.00	29.66	0.925
	64QAM	Low	2 506.00	29.74	0.942
		Middle	2 593.00	29.99	0.998
		High	2 680.00	29.71	0.935
	256QAM	Low	2 506.00	29.63	0.918
		Middle	2 593.00	30.10	1.023
		High	2 680.00	29.77	0.948
Port 28	QPSK	Low	2 506.00	29.32	0.855
		Middle	2 593.00	30.10	1.023
		High	2 680.00	29.45	0.881
	16QAM	Low	2 506.00	29.62	0.916
		Middle	2 593.00	29.37	0.865
		High	2 680.00	29.65	0.923
	64QAM	Low	2 506.00	29.47	0.885
		Middle	2 593.00	29.97	0.993
		High	2 680.00	29.77	0.948
	256QAM	Low	2 506.00	29.38	0.867
		Middle	2 593.00	29.66	0.925
		High	2 680.00	29.80	0.955
Port 29	QPSK	Low	2 506.00	29.29	0.849
		Middle	2 593.00	30.03	1.007

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 680.00	29.53	0.897
		Low	2 506.00	29.49	0.889
		Middle	2 593.00	29.91	0.979
		High	2 680.00	29.54	0.899
	64QAM	Low	2 506.00	29.39	0.869
		Middle	2 593.00	30.04	1.009
		High	2 680.00	29.54	0.899
	256QAM	Low	2 506.00	29.20	0.832
		Middle	2 593.00	30.02	1.005
		High	2 680.00	29.55	0.902
Port 30	QPSK	Low	2 506.00	29.65	0.923
		Middle	2 593.00	29.40	0.871
		High	2 680.00	29.53	0.897
	16QAM	Low	2 506.00	29.71	0.935
		Middle	2 593.00	30.09	1.021
		High	2 680.00	29.90	0.977
	64QAM	Low	2 506.00	29.79	0.953
		Middle	2 593.00	30.12	1.028
		High	2 680.00	29.87	0.971
	256QAM	Low	2 506.00	29.69	0.931
		Middle	2 593.00	29.53	0.897
		High	2 680.00	29.59	0.910
Port 31	QPSK	Low	2 506.00	30.11	1.026
		Middle	2 593.00	30.16	1.038
		High	2 680.00	29.48	0.887
	16QAM	Low	2 506.00	29.81	0.957
		Middle	2 593.00	29.92	0.982
		High	2 680.00	29.72	0.938
	64QAM	Low	2 506.00	29.76	0.946
		Middle	2 593.00	30.15	1.035
		High	2 680.00	29.66	0.925
	256QAM	Low	2 506.00	29.97	0.993

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 32		Middle	2 593.00	30.17	1.040
		High	2 680.00	29.45	0.881
		Low	2 506.00	29.75	0.944
	QPSK	Middle	2 593.00	30.04	1.009
		High	2 680.00	29.66	0.925
		Low	2 506.00	29.52	0.895
	16QAM	Middle	2 593.00	30.18	1.042
		High	2 680.00	29.71	0.935
		Low	2 506.00	29.57	0.906
	64QAM	Middle	2 593.00	30.14	1.033
		High	2 680.00	29.75	0.944
		Low	2 506.00	29.45	0.881
	256QAM	Middle	2 593.00	29.81	0.957
		High	2 680.00	29.56	0.904
		Low	2 506.00	29.57	0.906
Port 33	QPSK	Middle	2 593.00	30.10	1.023
		High	2 680.00	29.80	0.955
		Low	2 506.00	29.57	0.906
	16QAM	Middle	2 593.00	30.04	1.009
		High	2 680.00	29.76	0.946
		Low	2 506.00	29.49	0.889
	64QAM	Middle	2 593.00	30.10	1.023
		High	2 680.00	29.44	0.879
		Low	2 506.00	29.61	0.914
	256QAM	Middle	2 593.00	30.19	1.045
		High	2 680.00	29.65	0.923
		Low	2 506.00	29.67	0.927
Port 34	QPSK	Middle	2 593.00	29.82	0.959
		High	2 680.00	29.43	0.877
		Low	2 506.00	29.87	0.971
	16QAM	Middle	2 593.00	29.99	0.998
		High	2 680.00	29.54	0.899
		Low	2 506.00	29.84	0.964

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 506.00	29.78	0.951
		Middle	2 593.00	29.99	0.998
		High	2 680.00	29.54	0.899
	256QAM	Low	2 506.00	29.71	0.935
		Middle	2 593.00	30.15	1.035
		High	2 680.00	29.51	0.893
Port 35	QPSK	Low	2 506.00	29.44	0.879
		Middle	2 593.00	30.08	1.019
		High	2 680.00	29.75	0.944
	16QAM	Low	2 506.00	29.75	0.944
		Middle	2 593.00	30.13	1.030
		High	2 680.00	29.97	0.993
	64QAM	Low	2 506.00	29.76	0.946
		Middle	2 593.00	30.16	1.038
		High	2 680.00	30.03	1.007
	256QAM	Low	2 506.00	29.55	0.902
		Middle	2 593.00	30.13	1.030
		High	2 680.00	30.02	1.005
Port 36	QPSK	Low	2 506.00	29.86	0.968
		Middle	2 593.00	30.00	1.000
		High	2 680.00	29.93	0.984
	16QAM	Low	2 506.00	29.86	0.968
		Middle	2 593.00	30.12	1.028
		High	2 680.00	29.79	0.953
	64QAM	Low	2 506.00	29.65	0.923
		Middle	2 593.00	30.09	1.021
		High	2 680.00	29.89	0.975
	256QAM	Low	2 506.00	29.82	0.959
		Middle	2 593.00	29.94	0.986
		High	2 680.00	29.78	0.951
Port 37	QPSK	Low	2 506.00	29.72	0.938
		Middle	2 593.00	30.14	1.033

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 680.00	29.55	0.902
		Low	2 506.00	29.70	0.933
		Middle	2 593.00	30.20	1.047
		High	2 680.00	29.57	0.906
	64QAM	Low	2 506.00	29.79	0.953
		Middle	2 593.00	30.09	1.021
		High	2 680.00	29.61	0.914
	256QAM	Low	2 506.00	29.84	0.964
		Middle	2 593.00	30.16	1.038
		High	2 680.00	29.52	0.895
Port 38	QPSK	Low	2 506.00	29.54	0.899
		Middle	2 593.00	30.18	1.042
		High	2 680.00	29.78	0.951
	16QAM	Low	2 506.00	29.56	0.904
		Middle	2 593.00	30.19	1.045
		High	2 680.00	29.91	0.979
	64QAM	Low	2 506.00	29.55	0.902
		Middle	2 593.00	29.97	0.993
		High	2 680.00	30.10	1.023
	256QAM	Low	2 506.00	29.57	0.906
		Middle	2 593.00	30.17	1.040
		High	2 680.00	29.85	0.966
Port 39	QPSK	Low	2 506.00	29.68	0.929
		Middle	2 593.00	29.91	0.979
		High	2 680.00	29.40	0.871
	16QAM	Low	2 506.00	29.70	0.933
		Middle	2 593.00	29.94	0.986
		High	2 680.00	29.77	0.948
	64QAM	Low	2 506.00	29.67	0.927
		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.96	0.991
	256QAM	Low	2 506.00	29.69	0.931

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 40		Middle	2 593.00	30.00	1.000
		High	2 680.00	29.75	0.944
		Low	2 506.00	29.34	0.859
	QPSK	Middle	2 593.00	29.99	0.998
		High	2 680.00	29.72	0.938
		Low	2 506.00	29.45	0.881
	16QAM	Middle	2 593.00	29.99	0.998
		High	2 680.00	29.48	0.887
		Low	2 506.00	29.40	0.871
	64QAM	Middle	2 593.00	30.03	1.007
		High	2 680.00	29.63	0.918
		Low	2 506.00	29.27	0.845
	256QAM	Middle	2 593.00	30.14	1.033
		High	2 680.00	29.58	0.908
		Low	2 506.00	29.30	0.851
Port 41	QPSK	Middle	2 593.00	30.09	1.021
		High	2 680.00	29.69	0.931
		Low	2 506.00	29.07	0.807
	16QAM	Middle	2 593.00	29.95	0.989
		High	2 680.00	29.64	0.920
		Low	2 506.00	29.29	0.849
	64QAM	Middle	2 593.00	30.13	1.030
		High	2 680.00	29.56	0.904
		Low	2 506.00	29.38	0.867
	256QAM	Middle	2 593.00	30.19	1.045
		High	2 680.00	29.79	0.953
		Low	2 506.00	29.44	0.879
Port 42	QPSK	Middle	2 593.00	30.05	1.012
		High	2 680.00	29.56	0.904
		Low	2 506.00	29.44	0.879
	16QAM	Middle	2 593.00	29.86	0.968
		High	2 680.00	29.67	0.927
		Low	2 506.00	29.44	0.879

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 506.00	29.58	0.908
		Middle	2 593.00	30.08	1.019
		High	2 680.00	29.61	0.914
	256QAM	Low	2 506.00	29.29	0.849
		Middle	2 593.00	29.85	0.966
		High	2 680.00	29.60	0.912
Port 43	QPSK	Low	2 506.00	29.61	0.914
		Middle	2 593.00	30.02	1.005
		High	2 680.00	29.82	0.959
	16QAM	Low	2 506.00	29.65	0.923
		Middle	2 593.00	30.09	1.021
		High	2 680.00	30.01	1.002
	64QAM	Low	2 506.00	29.57	0.906
		Middle	2 593.00	30.05	1.012
		High	2 680.00	29.83	0.962
	256QAM	Low	2 506.00	29.60	0.912
		Middle	2 593.00	29.75	0.944
		High	2 680.00	29.78	0.951
Port 44	QPSK	Low	2 506.00	29.26	0.843
		Middle	2 593.00	29.62	0.916
		High	2 680.00	29.42	0.875
	16QAM	Low	2 506.00	29.22	0.836
		Middle	2 593.00	29.86	0.968
		High	2 680.00	29.56	0.904
	64QAM	Low	2 506.00	29.34	0.859
		Middle	2 593.00	29.95	0.989
		High	2 680.00	29.62	0.916
	256QAM	Low	2 506.00	29.38	0.867
		Middle	2 593.00	29.85	0.966
		High	2 680.00	29.27	0.845
Port 45	QPSK	Low	2 506.00	29.54	0.899
		Middle	2 593.00	29.81	0.957

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 680.00	29.66	0.925
		Low	2 506.00	29.46	0.883
		Middle	2 593.00	30.05	1.012
		High	2 680.00	29.62	0.916
	64QAM	Low	2 506.00	29.59	0.910
		Middle	2 593.00	29.86	0.968
		High	2 680.00	29.52	0.895
	256QAM	Low	2 506.00	29.59	0.910
		Middle	2 593.00	29.99	0.998
		High	2 680.00	29.60	0.912
Port 46	QPSK	Low	2 506.00	29.52	0.895
		Middle	2 593.00	29.96	0.991
		High	2 680.00	29.71	0.935
	16QAM	Low	2 506.00	29.55	0.902
		Middle	2 593.00	30.08	1.019
		High	2 680.00	29.75	0.944
	64QAM	Low	2 506.00	29.58	0.908
		Middle	2 593.00	30.16	1.038
		High	2 680.00	29.63	0.918
	256QAM	Low	2 506.00	29.54	0.899
		Middle	2 593.00	30.08	1.019
		High	2 680.00	29.68	0.929
Port 47	QPSK	Low	2 506.00	29.72	0.938
		Middle	2 593.00	30.07	1.016
		High	2 680.00	29.54	0.899
	16QAM	Low	2 506.00	29.54	0.899
		Middle	2 593.00	30.01	1.002
		High	2 680.00	29.56	0.904
	64QAM	Low	2 506.00	29.69	0.931
		Middle	2 593.00	29.75	0.944
		High	2 680.00	29.73	0.940
	256QAM	Low	2 506.00	29.39	0.869

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 48		Middle	2 593.00	30.20	1.047
		High	2 680.00	29.35	0.861
		Low	2 506.00	29.30	0.851
	QPSK	Middle	2 593.00	29.68	0.929
		High	2 680.00	29.49	0.889
		Low	2 506.00	29.56	0.904
	16QAM	Middle	2 593.00	29.95	0.989
		High	2 680.00	29.46	0.883
		Low	2 506.00	29.57	0.906
	64QAM	Middle	2 593.00	30.11	1.026
		High	2 680.00	29.43	0.877
		Low	2 506.00	29.50	0.891
	256QAM	Middle	2 593.00	29.79	0.953
		High	2 680.00	29.52	0.895
		Low	2 506.00	29.21	0.834
Port 49	QPSK	Middle	2 593.00	29.85	0.966
		High	2 680.00	29.72	0.938
		Low	2 506.00	29.39	0.869
	16QAM	Middle	2 593.00	29.89	0.975
		High	2 680.00	29.79	0.953
		Low	2 506.00	29.35	0.861
	64QAM	Middle	2 593.00	30.05	1.012
		High	2 680.00	29.82	0.959
		Low	2 506.00	29.28	0.847
	256QAM	Middle	2 593.00	29.84	0.964
		High	2 680.00	29.64	0.920
		Low	2 506.00	29.03	0.800
Port 50	QPSK	Middle	2 593.00	29.99	0.998
		High	2 680.00	29.42	0.875
		Low	2 506.00	29.20	0.832
	16QAM	Middle	2 593.00	29.84	0.964
		High	2 680.00	29.38	0.867
		Low	2 506.00	29.03	0.800

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 506.00	29.28	0.847
		Middle	2 593.00	30.00	1.000
		High	2 680.00	29.58	0.908
	256QAM	Low	2 506.00	28.99	0.793
		Middle	2 593.00	30.00	1.000
		High	2 680.00	29.47	0.885
Port 51	QPSK	Low	2 506.00	29.09	0.811
		Middle	2 593.00	29.80	0.955
		High	2 680.00	29.43	0.877
	16QAM	Low	2 506.00	29.30	0.851
		Middle	2 593.00	29.80	0.955
		High	2 680.00	29.64	0.920
	64QAM	Low	2 506.00	29.54	0.899
		Middle	2 593.00	29.89	0.975
		High	2 680.00	29.74	0.942
	256QAM	Low	2 506.00	29.31	0.853
		Middle	2 593.00	29.48	0.887
		High	2 680.00	29.67	0.927
Port 52	QPSK	Low	2 506.00	29.30	0.851
		Middle	2 593.00	29.99	0.998
		High	2 680.00	29.31	0.853
	16QAM	Low	2 506.00	29.63	0.918
		Middle	2 593.00	30.04	1.009
		High	2 680.00	29.64	0.920
	64QAM	Low	2 506.00	29.59	0.910
		Middle	2 593.00	30.19	1.045
		High	2 680.00	29.49	0.889
	256QAM	Low	2 506.00	29.47	0.885
		Middle	2 593.00	30.13	1.030
		High	2 680.00	29.63	0.918
Port 53	QPSK	Low	2 506.00	29.40	0.871
		Middle	2 593.00	29.80	0.955

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 680.00	29.41	0.873
		Low	2 506.00	29.50	0.891
		Middle	2 593.00	29.98	0.995
		High	2 680.00	29.53	0.897
	64QAM	Low	2 506.00	29.25	0.841
		Middle	2 593.00	29.93	0.984
		High	2 680.00	29.66	0.925
	256QAM	Low	2 506.00	29.43	0.877
		Middle	2 593.00	29.75	0.944
		High	2 680.00	29.33	0.857
Port 54	QPSK	Low	2 506.00	29.21	0.834
		Middle	2 593.00	30.04	1.009
		High	2 680.00	29.63	0.918
	16QAM	Low	2 506.00	29.27	0.845
		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.63	0.918
	64QAM	Low	2 506.00	29.46	0.883
		Middle	2 593.00	30.04	1.009
		High	2 680.00	29.72	0.938
	256QAM	Low	2 506.00	29.41	0.873
		Middle	2 593.00	30.06	1.014
		High	2 680.00	29.54	0.899
Port 55	QPSK	Low	2 506.00	29.34	0.859
		Middle	2 593.00	30.08	1.019
		High	2 680.00	29.52	0.895
	16QAM	Low	2 506.00	29.52	0.895
		Middle	2 593.00	30.09	1.021
		High	2 680.00	29.54	0.899
	64QAM	Low	2 506.00	29.41	0.873
		Middle	2 593.00	30.09	1.021
		High	2 680.00	29.44	0.879
	256QAM	Low	2 506.00	29.37	0.865

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 56		Middle	2 593.00	30.11	1.026
		High	2 680.00	29.33	0.857
		Low	2 506.00	29.45	0.881
	QPSK	Middle	2 593.00	29.44	0.879
		High	2 680.00	29.17	0.826
		Low	2 506.00	29.37	0.865
	16QAM	Middle	2 593.00	29.70	0.933
		High	2 680.00	29.50	0.891
		Low	2 506.00	29.47	0.885
	64QAM	Middle	2 593.00	29.80	0.955
		High	2 680.00	29.69	0.931
		Low	2 506.00	29.45	0.881
	256QAM	Middle	2 593.00	29.53	0.897
		High	2 680.00	29.26	0.843
Port 57	QPSK	Low	2 506.00	29.38	0.867
		Middle	2 593.00	29.84	0.964
		High	2 680.00	29.20	0.832
	16QAM	Low	2 506.00	29.49	0.889
		Middle	2 593.00	29.90	0.977
		High	2 680.00	29.60	0.912
	64QAM	Low	2 506.00	29.54	0.899
		Middle	2 593.00	30.09	1.021
		High	2 680.00	29.59	0.910
	256QAM	Low	2 506.00	29.50	0.891
		Middle	2 593.00	29.87	0.971
		High	2 680.00	29.62	0.916
Port 58	QPSK	Low	2 506.00	29.09	0.811
		Middle	2 593.00	29.56	0.904
		High	2 680.00	29.04	0.802
	16QAM	Low	2 506.00	29.07	0.807
		Middle	2 593.00	29.77	0.948
		High	2 680.00	29.38	0.867

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 506.00	29.31	0.853
		Middle	2 593.00	29.84	0.964
		High	2 680.00	29.48	0.887
	256QAM	Low	2 506.00	29.35	0.861
		Middle	2 593.00	29.79	0.953
		High	2 680.00	29.28	0.847
Port 59	QPSK	Low	2 506.00	29.13	0.818
		Middle	2 593.00	29.88	0.973
		High	2 680.00	29.20	0.832
	16QAM	Low	2 506.00	29.20	0.832
		Middle	2 593.00	29.61	0.914
		High	2 680.00	29.61	0.914
	64QAM	Low	2 506.00	29.39	0.869
		Middle	2 593.00	29.79	0.953
		High	2 680.00	29.56	0.904
	256QAM	Low	2 506.00	29.24	0.839
		Middle	2 593.00	29.88	0.973
		High	2 680.00	29.55	0.902
Port 60	QPSK	Low	2 506.00	29.09	0.811
		Middle	2 593.00	29.83	0.962
		High	2 680.00	29.23	0.838
	16QAM	Low	2 506.00	29.45	0.881
		Middle	2 593.00	29.94	0.986
		High	2 680.00	29.73	0.940
	64QAM	Low	2 506.00	29.33	0.857
		Middle	2 593.00	29.85	0.966
		High	2 680.00	29.70	0.933
	256QAM	Low	2 506.00	29.51	0.893
		Middle	2 593.00	29.99	0.998
		High	2 680.00	29.38	0.867
Port 61	QPSK	Low	2 506.00	29.07	0.807

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
		Middle	2 593.00	29.62	0.916
		High	2 680.00	29.17	0.826
	16QAM	Low	2 506.00	29.54	0.899
		Middle	2 593.00	29.53	0.897
		High	2 680.00	29.71	0.935
	64QAM	Low	2 506.00	29.47	0.885
		Middle	2 593.00	29.67	0.927
		High	2 680.00	29.55	0.902
	256QAM	Low	2 506.00	29.28	0.847
		Middle	2 593.00	29.54	0.899
		High	2 680.00	29.52	0.895
Port 62	QPSK	Low	2 506.00	29.35	0.861
		Middle	2 593.00	29.80	0.955
		High	2 680.00	29.41	0.873
	16QAM	Low	2 506.00	29.48	0.887
		Middle	2 593.00	30.01	1.002
		High	2 680.00	29.69	0.931
	64QAM	Low	2 506.00	29.35	0.861
		Middle	2 593.00	29.96	0.991
		High	2 680.00	29.59	0.910
	256QAM	Low	2 506.00	29.42	0.875
		Middle	2 593.00	29.82	0.959
		High	2 680.00	29.62	0.916
Port 63	QPSK	Low	2 506.00	29.41	0.873
		Middle	2 593.00	29.73	0.940
		High	2 680.00	29.56	0.904
	16QAM	Low	2 506.00	29.37	0.865
		Middle	2 593.00	29.96	0.991
		High	2 680.00	29.94	0.986
	64QAM	Low	2 506.00	29.31	0.853
		Middle	2 593.00	29.72	0.938
		High	2 680.00	29.62	0.916

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	256QAM	Low	2 506.00	29.28	0.847
		Middle	2 593.00	29.72	0.938
		High	2 680.00	29.79	0.953

* Because the results corrected by duty cycle are recorded, they do not match the test plot.

* This test report only contains the worst case plot data for each port and modulation.

Sum data of all port

Modulation	Channel	Frequency (MHz)	Summed Output Power (W)
QPSK	Low	2 506.00	55.869
	Middle	2 593.00	61.990
	High	2 680.00	56.572
16QAM	Low	2 506.00	57.064
	Middle	2 593.00	63.145
	High	2 680.00	58.406
64QAM	Low	2 506.00	57.597
	Middle	2 593.00	64.073
	High	2 680.00	58.636
256QAM	Low	2 506.00	56.891
	Middle	2 593.00	63.364
	High	2 680.00	57.810

15 MHz Bandwidth / 1 Carrier

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 0	QPSK	Low	2 503.50	27.89	0.615
		Middle	2 593.00	27.32	0.540
		High	2 682.50	27.77	0.598
	16QAM	Low	2 503.50	27.80	0.603
		Middle	2 593.00	28.27	0.671
		High	2 682.50	27.60	0.575
	64QAM	Low	2 503.50	27.59	0.574
		Middle	2 593.00	28.47	0.703
		High	2 682.50	28.41	0.693
	256QAM	Low	2 503.50	27.63	0.579
		Middle	2 593.00	28.26	0.670
		High	2 682.50	28.10	0.646
Port 1	QPSK	Low	2 503.50	27.82	0.605
		Middle	2 593.00	28.19	0.659
		High	2 682.50	27.85	0.610
	16QAM	Low	2 503.50	27.52	0.565
		Middle	2 593.00	28.45	0.700
		High	2 682.50	27.59	0.574
	64QAM	Low	2 503.50	27.45	0.556
		Middle	2 593.00	28.21	0.662
		High	2 682.50	28.17	0.656
	256QAM	Low	2 503.50	27.67	0.585
		Middle	2 593.00	28.40	0.692
		High	2 682.50	28.21	0.662
Port 2	QPSK	Low	2 503.50	27.92	0.619
		Middle	2 593.00	27.55	0.569
		High	2 682.50	27.71	0.590
	16QAM	Low	2 503.50	27.89	0.615
		Middle	2 593.00	28.70	0.741
		High	2 682.50	28.41	0.693

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.63	0.729
		High	2 682.50	28.27	0.671
	256QAM	Low	2 503.50	27.61	0.577
		Middle	2 593.00	28.23	0.665
		High	2 682.50	28.10	0.646
Port 3	QPSK	Low	2 503.50	27.76	0.597
		Middle	2 593.00	27.30	0.537
		High	2 682.50	27.96	0.625
	16QAM	Low	2 503.50	27.57	0.571
		Middle	2 593.00	28.59	0.723
		High	2 682.50	28.33	0.681
	64QAM	Low	2 503.50	27.61	0.577
		Middle	2 593.00	28.46	0.701
		High	2 682.50	28.21	0.662
	256QAM	Low	2 503.50	27.57	0.571
		Middle	2 593.00	28.44	0.698
		High	2 682.50	28.03	0.635
Port 4	QPSK	Low	2 503.50	27.05	0.507
		Middle	2 593.00	28.02	0.634
		High	2 682.50	28.23	0.665
	16QAM	Low	2 503.50	27.77	0.598
		Middle	2 593.00	28.37	0.687
		High	2 682.50	27.71	0.590
	64QAM	Low	2 503.50	27.76	0.597
		Middle	2 593.00	28.32	0.679
		High	2 682.50	27.63	0.579
	256QAM	Low	2 503.50	27.57	0.571
		Middle	2 593.00	28.28	0.673
		High	2 682.50	27.68	0.586
Port 5	QPSK	Low	2 503.50	27.75	0.596
		Middle	2 593.00	28.10	0.646

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 682.50	27.82	0.605
		Low	2 503.50	27.63	0.579
		Middle	2 593.00	27.92	0.619
		High	2 682.50	27.99	0.630
	64QAM	Low	2 503.50	27.62	0.578
		Middle	2 593.00	28.10	0.646
		High	2 682.50	27.93	0.621
	256QAM	Low	2 503.50	27.41	0.551
		Middle	2 593.00	28.12	0.649
		High	2 682.50	27.41	0.551
Port 6	QPSK	Low	2 503.50	27.45	0.556
		Middle	2 593.00	28.40	0.692
		High	2 682.50	27.84	0.608
	16QAM	Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.08	0.643
		High	2 682.50	27.74	0.594
	64QAM	Low	2 503.50	27.65	0.582
		Middle	2 593.00	28.07	0.641
		High	2 682.50	27.56	0.570
	256QAM	Low	2 503.50	27.37	0.546
		Middle	2 593.00	27.83	0.607
		High	2 682.50	27.71	0.590
Port 7	QPSK	Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.24	0.667
		High	2 682.50	27.72	0.592
	16QAM	Low	2 503.50	27.59	0.574
		Middle	2 593.00	27.93	0.621
		High	2 682.50	27.74	0.594
	64QAM	Low	2 503.50	27.56	0.570
		Middle	2 593.00	28.10	0.646
		High	2 682.50	27.84	0.608
	256QAM	Low	2 503.50	27.47	0.558

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 8		Middle	2 593.00	27.86	0.611
		High	2 682.50	27.52	0.565
		Low	2 503.50	27.55	0.569
	QPSK	Middle	2 593.00	28.31	0.678
		High	2 682.50	27.66	0.583
		Low	2 503.50	27.52	0.565
	16QAM	Middle	2 593.00	28.48	0.705
		High	2 682.50	27.75	0.596
		Low	2 503.50	28.01	0.632
	64QAM	Middle	2 593.00	28.50	0.708
		High	2 682.50	27.80	0.603
		Low	2 503.50	27.51	0.564
	256QAM	Middle	2 593.00	28.59	0.723
		High	2 682.50	27.84	0.608
		Low	2 503.50	27.77	0.598
Port 9	QPSK	Middle	2 593.00	28.33	0.681
		High	2 682.50	27.88	0.614
		Low	2 503.50	27.69	0.587
	16QAM	Middle	2 593.00	28.32	0.679
		High	2 682.50	28.25	0.668
		Low	2 503.50	27.54	0.568
	64QAM	Middle	2 593.00	28.43	0.697
		High	2 682.50	27.98	0.628
		Low	2 503.50	27.57	0.571
	256QAM	Middle	2 593.00	28.31	0.678
		High	2 682.50	27.90	0.617
		Low	2 503.50	27.66	0.583
Port 10	QPSK	Middle	2 593.00	28.10	0.646
		High	2 682.50	27.87	0.612
		Low	2 503.50	27.59	0.574
	16QAM	Middle	2 593.00	28.32	0.679
		High	2 682.50	27.79	0.601
		Low	2 503.50	27.66	0.583

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 503.50	27.75	0.596
		Middle	2 593.00	28.61	0.726
		High	2 682.50	27.70	0.589
	256QAM	Low	2 503.50	27.61	0.577
		Middle	2 593.00	28.31	0.678
		High	2 682.50	27.61	0.577
Port 11	QPSK	Low	2 503.50	27.58	0.573
		Middle	2 593.00	28.43	0.697
		High	2 682.50	27.98	0.628
	16QAM	Low	2 503.50	27.69	0.587
		Middle	2 593.00	28.52	0.711
		High	2 682.50	28.05	0.638
	64QAM	Low	2 503.50	27.40	0.550
		Middle	2 593.00	28.64	0.731
		High	2 682.50	27.99	0.630
	256QAM	Low	2 503.50	27.08	0.511
		Middle	2 593.00	28.60	0.724
		High	2 682.50	27.75	0.596
Port 12	QPSK	Low	2 503.50	27.72	0.592
		Middle	2 593.00	28.58	0.721
		High	2 682.50	27.53	0.566
	16QAM	Low	2 503.50	27.73	0.593
		Middle	2 593.00	28.29	0.675
		High	2 682.50	27.72	0.592
	64QAM	Low	2 503.50	27.70	0.589
		Middle	2 593.00	28.64	0.731
		High	2 682.50	27.67	0.585
	256QAM	Low	2 503.50	27.42	0.552
		Middle	2 593.00	28.49	0.706
		High	2 682.50	27.71	0.590
Port 13	QPSK	Low	2 503.50	27.50	0.562
		Middle	2 593.00	27.64	0.581

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 682.50	27.67	0.585
		Low	2 503.50	27.58	0.573
		Middle	2 593.00	28.22	0.664
		High	2 682.50	27.79	0.601
	64QAM	Low	2 503.50	27.59	0.574
		Middle	2 593.00	28.28	0.673
		High	2 682.50	27.77	0.598
	256QAM	Low	2 503.50	27.97	0.627
		Middle	2 593.00	27.94	0.622
		High	2 682.50	27.45	0.556
Port 14	QPSK	Low	2 503.50	27.56	0.570
		Middle	2 593.00	28.34	0.682
		High	2 682.50	28.04	0.637
	16QAM	Low	2 503.50	27.87	0.612
		Middle	2 593.00	28.18	0.658
		High	2 682.50	27.73	0.593
	64QAM	Low	2 503.50	27.73	0.593
		Middle	2 593.00	27.99	0.630
		High	2 682.50	27.65	0.582
	256QAM	Low	2 503.50	27.80	0.603
		Middle	2 593.00	28.08	0.643
		High	2 682.50	27.97	0.627
Port 15	QPSK	Low	2 503.50	27.43	0.553
		Middle	2 593.00	27.94	0.622
		High	2 682.50	27.80	0.603
	16QAM	Low	2 503.50	27.61	0.577
		Middle	2 593.00	28.23	0.665
		High	2 682.50	27.70	0.589
	64QAM	Low	2 503.50	27.84	0.608
		Middle	2 593.00	27.98	0.628
		High	2 682.50	27.74	0.594
	256QAM	Low	2 503.50	27.43	0.553

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 16		Middle	2 593.00	28.17	0.656
		High	2 682.50	27.68	0.586
		Low	2 503.50	27.93	0.621
	QPSK	Middle	2 593.00	28.63	0.729
		High	2 682.50	27.92	0.619
		Low	2 503.50	27.86	0.611
	16QAM	Middle	2 593.00	28.77	0.753
		High	2 682.50	27.89	0.615
		Low	2 503.50	27.55	0.569
	64QAM	Middle	2 593.00	27.83	0.607
		High	2 682.50	27.81	0.604
		Low	2 503.50	27.48	0.560
	256QAM	Middle	2 593.00	28.32	0.679
		High	2 682.50	27.92	0.619
		Low	2 503.50	27.72	0.592
Port 17	QPSK	Middle	2 593.00	28.43	0.697
		High	2 682.50	27.93	0.621
		Low	2 503.50	27.55	0.569
	16QAM	Middle	2 593.00	28.61	0.726
		High	2 682.50	28.09	0.644
		Low	2 503.50	27.54	0.568
	64QAM	Middle	2 593.00	28.45	0.700
		High	2 682.50	28.31	0.678
		Low	2 503.50	27.45	0.556
	256QAM	Middle	2 593.00	28.35	0.684
		High	2 682.50	27.92	0.619
		Low	2 503.50	28.06	0.640
Port 18	QPSK	Middle	2 593.00	28.06	0.640
		High	2 682.50	27.85	0.610
		Low	2 503.50	28.24	0.667
	16QAM	Middle	2 593.00	28.31	0.678
		High	2 682.50	28.08	0.643
		Low	2 503.50	28.06	0.640

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 503.50	27.72	0.592
		Middle	2 593.00	28.06	0.640
		High	2 682.50	27.91	0.618
	256QAM	Low	2 503.50	27.79	0.601
		Middle	2 593.00	28.15	0.653
		High	2 682.50	27.80	0.603
Port 19	QPSK	Low	2 503.50	27.89	0.615
		Middle	2 593.00	27.82	0.605
		High	2 682.50	28.18	0.658
	16QAM	Low	2 503.50	27.95	0.624
		Middle	2 593.00	28.34	0.682
		High	2 682.50	28.22	0.664
	64QAM	Low	2 503.50	28.03	0.635
		Middle	2 593.00	28.19	0.659
		High	2 682.50	28.06	0.640
	256QAM	Low	2 503.50	28.08	0.643
		Middle	2 593.00	28.13	0.650
		High	2 682.50	27.97	0.627
Port 20	QPSK	Low	2 503.50	27.93	0.621
		Middle	2 593.00	28.07	0.641
		High	2 682.50	27.86	0.611
	16QAM	Low	2 503.50	27.75	0.596
		Middle	2 593.00	28.15	0.653
		High	2 682.50	27.97	0.627
	64QAM	Low	2 503.50	27.77	0.598
		Middle	2 593.00	28.45	0.700
		High	2 682.50	27.98	0.628
	256QAM	Low	2 503.50	27.49	0.561
		Middle	2 593.00	28.10	0.646
		High	2 682.50	28.15	0.653
Port 21	QPSK	Low	2 503.50	27.66	0.583
		Middle	2 593.00	27.79	0.601

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 682.50	27.85	0.610
		Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.18	0.658
		High	2 682.50	27.89	0.615
	64QAM	Low	2 503.50	27.56	0.570
		Middle	2 593.00	28.22	0.664
		High	2 682.50	28.19	0.659
	256QAM	Low	2 503.50	27.66	0.583
		Middle	2 593.00	27.86	0.611
		High	2 682.50	27.74	0.594
Port 22	QPSK	Low	2 503.50	27.62	0.578
		Middle	2 593.00	27.67	0.585
		High	2 682.50	27.88	0.614
	16QAM	Low	2 503.50	27.42	0.552
		Middle	2 593.00	27.84	0.608
		High	2 682.50	27.83	0.607
	64QAM	Low	2 503.50	27.85	0.610
		Middle	2 593.00	27.95	0.624
		High	2 682.50	27.92	0.619
	256QAM	Low	2 503.50	27.48	0.560
		Middle	2 593.00	28.19	0.659
		High	2 682.50	27.64	0.581
Port 23	QPSK	Low	2 503.50	27.47	0.558
		Middle	2 593.00	27.97	0.627
		High	2 682.50	27.46	0.557
	16QAM	Low	2 503.50	27.84	0.608
		Middle	2 593.00	28.04	0.637
		High	2 682.50	27.71	0.590
	64QAM	Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.06	0.640
		High	2 682.50	27.85	0.610
	256QAM	Low	2 503.50	27.42	0.552

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 24		Middle	2 593.00	27.99	0.630
		High	2 682.50	27.70	0.589
		Low	2 503.50	27.82	0.605
	QPSK	Middle	2 593.00	28.78	0.755
		High	2 682.50	27.91	0.618
		Low	2 503.50	27.90	0.617
	16QAM	Middle	2 593.00	28.17	0.656
		High	2 682.50	27.94	0.622
		Low	2 503.50	27.90	0.617
	64QAM	Middle	2 593.00	28.21	0.662
		High	2 682.50	27.95	0.624
		Low	2 503.50	27.99	0.630
	256QAM	Middle	2 593.00	28.36	0.685
		High	2 682.50	27.61	0.577
		Low	2 503.50	27.86	0.611
Port 25	QPSK	Middle	2 593.00	28.32	0.679
		High	2 682.50	27.23	0.528
		Low	2 503.50	27.86	0.611
	16QAM	Middle	2 593.00	27.98	0.628
		High	2 682.50	27.27	0.533
		Low	2 503.50	28.22	0.664
	64QAM	Middle	2 593.00	27.88	0.614
		High	2 682.50	27.48	0.560
		Low	2 503.50	28.00	0.631
	256QAM	Middle	2 593.00	28.61	0.726
		High	2 682.50	27.26	0.532
		Low	2 503.50	28.03	0.635
Port 26	QPSK	Middle	2 593.00	28.39	0.690
		High	2 682.50	27.22	0.527
		Low	2 503.50	27.93	0.621
	16QAM	Middle	2 593.00	28.38	0.689
		High	2 682.50	27.23	0.528
		Low	2 503.50	28.00	0.631

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 503.50	28.02	0.634
		Middle	2 593.00	28.38	0.689
		High	2 682.50	27.30	0.537
	256QAM	Low	2 503.50	27.51	0.564
		Middle	2 593.00	28.60	0.724
		High	2 682.50	27.74	0.594
Port 27	QPSK	Low	2 503.50	27.69	0.587
		Middle	2 593.00	28.29	0.675
		High	2 682.50	27.59	0.574
	16QAM	Low	2 503.50	28.11	0.647
		Middle	2 593.00	28.64	0.731
		High	2 682.50	27.59	0.574
	64QAM	Low	2 503.50	27.88	0.614
		Middle	2 593.00	28.79	0.757
		High	2 682.50	27.95	0.624
	256QAM	Low	2 503.50	27.80	0.603
		Middle	2 593.00	28.86	0.769
		High	2 682.50	27.54	0.568
Port 28	QPSK	Low	2 503.50	27.79	0.601
		Middle	2 593.00	28.66	0.735
		High	2 682.50	27.85	0.610
	16QAM	Low	2 503.50	27.86	0.611
		Middle	2 593.00	28.71	0.743
		High	2 682.50	28.12	0.649
	64QAM	Low	2 503.50	27.94	0.622
		Middle	2 593.00	28.84	0.766
		High	2 682.50	28.20	0.661
	256QAM	Low	2 503.50	27.85	0.610
		Middle	2 593.00	28.85	0.767
		High	2 682.50	28.10	0.646
Port 29	QPSK	Low	2 503.50	27.53	0.566
		Middle	2 593.00	28.24	0.667

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 682.50	28.33	0.681
		Low	2 503.50	27.60	0.575
		Middle	2 593.00	28.62	0.728
		High	2 682.50	28.07	0.641
	64QAM	Low	2 503.50	27.86	0.611
		Middle	2 593.00	28.76	0.752
		High	2 682.50	28.03	0.635
	256QAM	Low	2 503.50	27.56	0.570
		Middle	2 593.00	28.57	0.719
		High	2 682.50	27.96	0.625
Port 30	QPSK	Low	2 503.50	28.01	0.632
		Middle	2 593.00	28.44	0.698
		High	2 682.50	28.05	0.638
	16QAM	Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.84	0.766
		High	2 682.50	27.59	0.574
	64QAM	Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.64	0.731
		High	2 682.50	27.80	0.603
	256QAM	Low	2 503.50	27.79	0.601
		Middle	2 593.00	28.88	0.773
		High	2 682.50	27.65	0.582
Port 31	QPSK	Low	2 503.50	28.47	0.703
		Middle	2 593.00	28.94	0.783
		High	2 682.50	28.56	0.718
	16QAM	Low	2 503.50	28.31	0.678
		Middle	2 593.00	28.94	0.783
		High	2 682.50	28.63	0.729
	64QAM	Low	2 503.50	28.26	0.670
		Middle	2 593.00	28.94	0.783
		High	2 682.50	28.74	0.748
	256QAM	Low	2 503.50	28.48	0.705

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 32		Middle	2 593.00	28.88	0.773
		High	2 682.50	28.66	0.735
		Low	2 503.50	27.78	0.600
	QPSK	Middle	2 593.00	28.37	0.687
		High	2 682.50	28.81	0.760
		Low	2 503.50	28.15	0.653
	16QAM	Middle	2 593.00	28.42	0.695
		High	2 682.50	28.14	0.652
		Low	2 503.50	27.86	0.611
	64QAM	Middle	2 593.00	27.98	0.628
		High	2 682.50	28.68	0.738
		Low	2 503.50	27.53	0.566
	256QAM	Middle	2 593.00	28.52	0.711
		High	2 682.50	28.11	0.647
		Low	2 503.50	28.11	0.647
Port 33	QPSK	Middle	2 593.00	28.24	0.667
		High	2 682.50	27.68	0.586
		Low	2 503.50	27.72	0.592
	16QAM	Middle	2 593.00	28.07	0.641
		High	2 682.50	28.13	0.650
		Low	2 503.50	27.56	0.570
	64QAM	Middle	2 593.00	27.65	0.582
		High	2 682.50	27.91	0.618
		Low	2 503.50	27.61	0.577
	256QAM	Middle	2 593.00	28.80	0.759
		High	2 682.50	28.22	0.664
		Low	2 503.50	28.02	0.634
Port 34	QPSK	Middle	2 593.00	27.99	0.630
		High	2 682.50	28.11	0.647
		Low	2 503.50	28.40	0.692
	16QAM	Middle	2 593.00	27.97	0.627
		High	2 682.50	28.03	0.635
		Low	2 503.50	28.02	0.634

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 503.50	28.22	0.664
		Middle	2 593.00	28.38	0.689
		High	2 682.50	28.64	0.731
	256QAM	Low	2 503.50	28.02	0.634
		Middle	2 593.00	28.54	0.714
		High	2 682.50	28.01	0.632
Port 35	QPSK	Low	2 503.50	28.08	0.643
		Middle	2 593.00	28.45	0.700
		High	2 682.50	28.36	0.685
	16QAM	Low	2 503.50	27.90	0.617
		Middle	2 593.00	28.15	0.653
		High	2 682.50	28.33	0.681
	64QAM	Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.37	0.687
		High	2 682.50	28.72	0.745
	256QAM	Low	2 503.50	27.61	0.577
		Middle	2 593.00	28.69	0.740
		High	2 682.50	28.27	0.671
Port 36	QPSK	Low	2 503.50	28.13	0.650
		Middle	2 593.00	28.42	0.695
		High	2 682.50	27.87	0.612
	16QAM	Low	2 503.50	27.77	0.598
		Middle	2 593.00	28.35	0.684
		High	2 682.50	28.79	0.757
	64QAM	Low	2 503.50	28.02	0.634
		Middle	2 593.00	28.52	0.711
		High	2 682.50	28.18	0.658
	256QAM	Low	2 503.50	28.02	0.634
		Middle	2 593.00	28.79	0.757
		High	2 682.50	28.03	0.635
Port 37	QPSK	Low	2 503.50	28.03	0.635
		Middle	2 593.00	28.37	0.687

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 682.50	27.94	0.622
		Low	2 503.50	27.93	0.621
		Middle	2 593.00	28.64	0.731
		High	2 682.50	27.99	0.630
	64QAM	Low	2 503.50	28.02	0.634
		Middle	2 593.00	28.53	0.713
		High	2 682.50	28.20	0.661
	256QAM	Low	2 503.50	28.00	0.631
		Middle	2 593.00	28.85	0.767
		High	2 682.50	28.03	0.635
Port 38	QPSK	Low	2 503.50	28.01	0.632
		Middle	2 593.00	28.41	0.693
		High	2 682.50	28.46	0.701
	16QAM	Low	2 503.50	27.90	0.617
		Middle	2 593.00	28.31	0.678
		High	2 682.50	28.28	0.673
	64QAM	Low	2 503.50	27.97	0.627
		Middle	2 593.00	28.66	0.735
		High	2 682.50	27.96	0.625
	256QAM	Low	2 503.50	28.08	0.643
		Middle	2 593.00	28.51	0.710
		High	2 682.50	28.32	0.679
Port 39	QPSK	Low	2 503.50	27.74	0.594
		Middle	2 593.00	28.41	0.693
		High	2 682.50	28.04	0.637
	16QAM	Low	2 503.50	27.96	0.625
		Middle	2 593.00	28.58	0.721
		High	2 682.50	28.27	0.671
	64QAM	Low	2 503.50	28.11	0.647
		Middle	2 593.00	28.78	0.755
		High	2 682.50	28.17	0.656
	256QAM	Low	2 503.50	27.58	0.573

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 40		Middle	2 593.00	28.89	0.774
		High	2 682.50	28.26	0.670
		Low	2 503.50	27.93	0.621
	QPSK	Middle	2 593.00	28.33	0.681
		High	2 682.50	27.43	0.553
		Low	2 503.50	27.93	0.621
	16QAM	Middle	2 593.00	28.23	0.665
		High	2 682.50	27.93	0.621
		Low	2 503.50	27.93	0.621
	64QAM	Middle	2 593.00	28.58	0.721
		High	2 682.50	28.64	0.731
		Low	2 503.50	27.95	0.624
	256QAM	Middle	2 593.00	28.91	0.778
		High	2 682.50	27.76	0.597
		Low	2 503.50	27.80	0.603
Port 41	QPSK	Middle	2 593.00	28.28	0.673
		High	2 682.50	28.07	0.641
		Low	2 503.50	27.28	0.535
	16QAM	Middle	2 593.00	28.53	0.713
		High	2 682.50	27.74	0.594
		Low	2 503.50	27.54	0.568
	64QAM	Middle	2 593.00	28.56	0.718
		High	2 682.50	28.40	0.692
		Low	2 503.50	27.75	0.596
	256QAM	Middle	2 593.00	28.35	0.684
		High	2 682.50	28.23	0.665
		Low	2 503.50	27.55	0.569
Port 42	QPSK	Middle	2 593.00	28.15	0.653
		High	2 682.50	27.71	0.590
		Low	2 503.50	27.96	0.625
	16QAM	Middle	2 593.00	28.37	0.687
		High	2 682.50	27.97	0.627
		Low	2 503.50	27.89	0.615

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 503.50	27.76	0.597
		Middle	2 593.00	28.41	0.693
		High	2 682.50	28.64	0.731
	256QAM	Low	2 503.50	27.36	0.545
		Middle	2 593.00	28.54	0.714
		High	2 682.50	27.79	0.601
Port 43	QPSK	Low	2 503.50	27.28	0.535
		Middle	2 593.00	28.41	0.693
		High	2 682.50	28.16	0.655
	16QAM	Low	2 503.50	27.74	0.594
		Middle	2 593.00	28.11	0.647
		High	2 682.50	27.76	0.597
	64QAM	Low	2 503.50	27.76	0.597
		Middle	2 593.00	28.34	0.682
		High	2 682.50	28.64	0.731
	256QAM	Low	2 503.50	27.89	0.615
		Middle	2 593.00	27.78	0.600
		High	2 682.50	27.98	0.628
Port 44	QPSK	Low	2 503.50	27.87	0.612
		Middle	2 593.00	28.05	0.638
		High	2 682.50	28.05	0.638
	16QAM	Low	2 503.50	27.60	0.575
		Middle	2 593.00	28.32	0.679
		High	2 682.50	27.85	0.610
	64QAM	Low	2 503.50	27.49	0.561
		Middle	2 593.00	27.91	0.618
		High	2 682.50	28.21	0.662
	256QAM	Low	2 503.50	27.67	0.585
		Middle	2 593.00	28.46	0.701
		High	2 682.50	28.20	0.661
Port 45	QPSK	Low	2 503.50	27.95	0.624
		Middle	2 593.00	28.10	0.646

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 682.50	27.95	0.624
		Low	2 503.50	27.60	0.575
		Middle	2 593.00	28.30	0.676
		High	2 682.50	27.74	0.594
	64QAM	Low	2 503.50	27.90	0.617
		Middle	2 593.00	28.29	0.675
		High	2 682.50	28.31	0.678
	256QAM	Low	2 503.50	27.64	0.581
		Middle	2 593.00	27.82	0.605
		High	2 682.50	27.91	0.618
Port 46	QPSK	Low	2 503.50	28.37	0.687
		Middle	2 593.00	28.11	0.647
		High	2 682.50	27.75	0.596
	16QAM	Low	2 503.50	27.57	0.571
		Middle	2 593.00	28.50	0.708
		High	2 682.50	27.90	0.617
	64QAM	Low	2 503.50	27.85	0.610
		Middle	2 593.00	28.09	0.644
		High	2 682.50	28.11	0.647
	256QAM	Low	2 503.50	27.96	0.625
		Middle	2 593.00	28.31	0.678
		High	2 682.50	27.98	0.628
Port 47	QPSK	Low	2 503.50	28.73	0.746
		Middle	2 593.00	28.14	0.652
		High	2 682.50	27.98	0.628
	16QAM	Low	2 503.50	28.25	0.668
		Middle	2 593.00	28.27	0.671
		High	2 682.50	28.32	0.679
	64QAM	Low	2 503.50	28.20	0.661
		Middle	2 593.00	28.43	0.697
		High	2 682.50	28.11	0.647
	256QAM	Low	2 503.50	27.86	0.611

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 48		Middle	2 593.00	28.27	0.671
		High	2 682.50	27.65	0.582
		Low	2 503.50	28.42	0.695
	QPSK	Middle	2 593.00	28.58	0.721
		High	2 682.50	28.24	0.667
		Low	2 503.50	28.22	0.664
	16QAM	Middle	2 593.00	28.53	0.713
		High	2 682.50	28.26	0.670
		Low	2 503.50	28.03	0.635
	64QAM	Middle	2 593.00	28.61	0.726
		High	2 682.50	28.05	0.638
		Low	2 503.50	28.20	0.661
	256QAM	Middle	2 593.00	28.42	0.695
		High	2 682.50	27.88	0.614
		Low	2 503.50	27.54	0.568
Port 49	QPSK	Middle	2 593.00	28.12	0.649
		High	2 682.50	27.99	0.630
		Low	2 503.50	27.40	0.550
	16QAM	Middle	2 593.00	28.34	0.682
		High	2 682.50	28.15	0.653
		Low	2 503.50	27.99	0.630
	64QAM	Middle	2 593.00	28.05	0.638
		High	2 682.50	27.64	0.581
		Low	2 503.50	28.13	0.650
	256QAM	Middle	2 593.00	28.53	0.713
		High	2 682.50	28.20	0.661
		Low	2 503.50	27.79	0.601
Port 50	QPSK	Middle	2 593.00	28.16	0.655
		High	2 682.50	27.92	0.619
		Low	2 503.50	27.72	0.592
	16QAM	Middle	2 593.00	28.22	0.664
		High	2 682.50	27.84	0.608
		Low	2 503.50	27.79	0.601

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 503.50	27.73	0.593
		Middle	2 593.00	28.32	0.679
		High	2 682.50	28.09	0.644
	256QAM	Low	2 503.50	27.58	0.573
		Middle	2 593.00	28.37	0.687
		High	2 682.50	28.18	0.658
Port 51	QPSK	Low	2 503.50	27.71	0.590
		Middle	2 593.00	28.73	0.746
		High	2 682.50	27.79	0.601
	16QAM	Low	2 503.50	27.22	0.527
		Middle	2 593.00	28.08	0.643
		High	2 682.50	27.81	0.604
	64QAM	Low	2 503.50	27.87	0.612
		Middle	2 593.00	28.10	0.646
		High	2 682.50	27.89	0.615
	256QAM	Low	2 503.50	27.95	0.624
		Middle	2 593.00	28.16	0.655
		High	2 682.50	28.30	0.676
Port 52	QPSK	Low	2 503.50	27.81	0.604
		Middle	2 593.00	28.58	0.721
		High	2 682.50	27.90	0.617
	16QAM	Low	2 503.50	28.00	0.631
		Middle	2 593.00	28.57	0.719
		High	2 682.50	27.68	0.586
	64QAM	Low	2 503.50	27.61	0.577
		Middle	2 593.00	28.46	0.701
		High	2 682.50	27.98	0.628
	256QAM	Low	2 503.50	27.56	0.570
		Middle	2 593.00	28.48	0.705
		High	2 682.50	27.71	0.590
Port 53	QPSK	Low	2 503.50	27.85	0.610
		Middle	2 593.00	28.25	0.668

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 682.50	27.85	0.610
		Low	2 503.50	27.62	0.578
		Middle	2 593.00	28.35	0.684
		High	2 682.50	27.63	0.579
	64QAM	Low	2 503.50	27.56	0.570
		Middle	2 593.00	28.31	0.678
		High	2 682.50	27.81	0.604
	256QAM	Low	2 503.50	27.51	0.564
		Middle	2 593.00	28.36	0.685
		High	2 682.50	27.92	0.619
Port 54	QPSK	Low	2 503.50	27.67	0.585
		Middle	2 593.00	27.81	0.604
		High	2 682.50	27.75	0.596
	16QAM	Low	2 503.50	27.56	0.570
		Middle	2 593.00	28.46	0.701
		High	2 682.50	28.01	0.632
	64QAM	Low	2 503.50	27.09	0.512
		Middle	2 593.00	28.12	0.649
		High	2 682.50	28.03	0.635
	256QAM	Low	2 503.50	27.36	0.545
		Middle	2 593.00	28.38	0.689
		High	2 682.50	27.71	0.590
Port 55	QPSK	Low	2 503.50	27.62	0.578
		Middle	2 593.00	28.19	0.659
		High	2 682.50	27.51	0.564
	16QAM	Low	2 503.50	27.50	0.562
		Middle	2 593.00	28.38	0.689
		High	2 682.50	27.79	0.601
	64QAM	Low	2 503.50	27.65	0.582
		Middle	2 593.00	28.09	0.644
		High	2 682.50	27.76	0.597
	256QAM	Low	2 503.50	27.66	0.583

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 56		Middle	2 593.00	28.27	0.671
		High	2 682.50	27.63	0.579
		Low	2 503.50	27.85	0.610
	QPSK	Middle	2 593.00	28.23	0.665
		High	2 682.50	27.58	0.573
		Low	2 503.50	27.55	0.569
	16QAM	Middle	2 593.00	28.29	0.675
		High	2 682.50	27.98	0.628
		Low	2 503.50	27.54	0.568
	64QAM	Middle	2 593.00	28.32	0.679
		High	2 682.50	28.00	0.631
		Low	2 503.50	27.97	0.627
	256QAM	Middle	2 593.00	27.98	0.628
		High	2 682.50	27.88	0.614
		Low	2 503.50	27.42	0.552
Port 57	QPSK	Middle	2 593.00	28.02	0.634
		High	2 682.50	27.36	0.545
		Low	2 503.50	27.69	0.587
	16QAM	Middle	2 593.00	27.48	0.560
		High	2 682.50	27.97	0.627
		Low	2 503.50	27.62	0.578
	64QAM	Middle	2 593.00	28.20	0.661
		High	2 682.50	28.04	0.637
		Low	2 503.50	27.57	0.571
	256QAM	Middle	2 593.00	28.04	0.637
		High	2 682.50	28.09	0.644
		Low	2 503.50	27.46	0.557
Port 58	QPSK	Middle	2 593.00	28.14	0.652
		High	2 682.50	28.14	0.652
		Low	2 503.50	27.51	0.564
	16QAM	Middle	2 593.00	28.27	0.671
		High	2 682.50	27.77	0.598
		Low	2 503.50	27.46	0.557

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 503.50	27.44	0.555
		Middle	2 593.00	28.07	0.641
		High	2 682.50	27.86	0.611
	256QAM	Low	2 503.50	27.78	0.600
		Middle	2 593.00	27.98	0.628
		High	2 682.50	28.14	0.652
Port 59	QPSK	Low	2 503.50	27.34	0.542
		Middle	2 593.00	28.34	0.682
		High	2 682.50	28.15	0.653
	16QAM	Low	2 503.50	27.35	0.543
		Middle	2 593.00	28.39	0.690
		High	2 682.50	27.58	0.573
	64QAM	Low	2 503.50	27.42	0.552
		Middle	2 593.00	27.44	0.555
		High	2 682.50	27.91	0.618
	256QAM	Low	2 503.50	27.80	0.603
		Middle	2 593.00	28.11	0.647
		High	2 682.50	28.22	0.664
Port 60	QPSK	Low	2 503.50	27.70	0.589
		Middle	2 593.00	28.29	0.675
		High	2 682.50	27.34	0.542
	16QAM	Low	2 503.50	27.44	0.555
		Middle	2 593.00	28.29	0.675
		High	2 682.50	27.70	0.589
	64QAM	Low	2 503.50	27.42	0.552
		Middle	2 593.00	28.11	0.647
		High	2 682.50	27.88	0.614
	256QAM	Low	2 503.50	27.67	0.585
		Middle	2 593.00	28.34	0.682
		High	2 682.50	27.97	0.627
Port 61	QPSK	Low	2 503.50	27.57	0.571
		Middle	2 593.00	28.07	0.641

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 682.50	27.84	0.608
		Low	2 503.50	27.76	0.597
		Middle	2 593.00	28.12	0.649
		High	2 682.50	27.90	0.617
	64QAM	Low	2 503.50	27.38	0.547
		Middle	2 593.00	27.90	0.617
		High	2 682.50	28.01	0.632
	256QAM	Low	2 503.50	27.79	0.601
		Middle	2 593.00	28.03	0.635
		High	2 682.50	28.09	0.644
Port 62	QPSK	Low	2 503.50	27.67	0.585
		Middle	2 593.00	28.41	0.693
		High	2 682.50	28.05	0.638
	16QAM	Low	2 503.50	27.36	0.545
		Middle	2 593.00	28.06	0.640
		High	2 682.50	27.77	0.598
	64QAM	Low	2 503.50	27.57	0.571
		Middle	2 593.00	27.53	0.566
		High	2 682.50	27.91	0.618
	256QAM	Low	2 503.50	27.51	0.564
		Middle	2 593.00	28.20	0.661
		High	2 682.50	28.14	0.652
Port 63	QPSK	Low	2 503.50	27.63	0.579
		Middle	2 593.00	28.25	0.668
		High	2 682.50	27.82	0.605
	16QAM	Low	2 503.50	27.84	0.608
		Middle	2 593.00	28.27	0.671
		High	2 682.50	27.85	0.610
	64QAM	Low	2 503.50	27.59	0.574
		Middle	2 593.00	28.26	0.670
		High	2 682.50	27.78	0.600
	256QAM	Low	2 503.50	27.62	0.578

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
		Middle	2 593.00	27.88	0.614
		High	2 682.50	27.86	0.611

* Because the results corrected by duty cycle are recorded, they do not match the test plot.

* This test report only contains the worst case plot data for each port and modulation.

Sum data of all port

Modulation	Channel	Frequency (MHz)	Summed Output Power (W)
QPSK	Low	2 503.50	38.455
	Middle	2 593.00	42.527
	High	2 682.50	39.410
16QAM	Low	2 503.50	38.237
	Middle	2 593.00	43.562
	High	2 682.50	39.725
64QAM	Low	2 503.50	38.103
	Middle	2 593.00	43.264
	High	2 682.50	40.771
256QAM	Low	2 503.50	37.698
	Middle	2 593.00	43.838
	High	2 682.50	39.690

20 MHz + 20 MHz Bandwidth / 2 Carriers

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 0	QPSK	Low	2 516.00	32.28	1.690
		Middle	2 583.00	32.48	1.770
		High	2 670.00	32.18	1.652
	16QAM	Low	2 516.00	32.78	1.897
		Middle	2 583.00	32.66	1.845
		High	2 670.00	32.45	1.758
	64QAM	Low	2 516.00	32.59	1.816
		Middle	2 583.00	32.72	1.871
		High	2 670.00	32.33	1.710
	256QAM	Low	2 516.00	32.52	1.786
		Middle	2 583.00	32.68	1.854
		High	2 670.00	32.41	1.742
Port 1	QPSK	Low	2 516.00	32.34	1.714
		Middle	2 583.00	32.33	1.710
		High	2 670.00	32.30	1.698
	16QAM	Low	2 516.00	32.73	1.875
		Middle	2 583.00	32.78	1.897
		High	2 670.00	32.39	1.734
	64QAM	Low	2 516.00	32.38	1.730
		Middle	2 583.00	32.79	1.901
		High	2 670.00	32.40	1.738
	256QAM	Low	2 516.00	32.40	1.738
		Middle	2 583.00	32.47	1.766
		High	2 670.00	32.43	1.750
Port 2	QPSK	Low	2 516.00	32.36	1.722
		Middle	2 583.00	32.49	1.774
		High	2 670.00	32.25	1.679
	16QAM	Low	2 516.00	32.58	1.811
		Middle	2 583.00	32.71	1.866
		High	2 670.00	32.52	1.786

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 516.00	32.94	1.968
		Middle	2 583.00	32.67	1.849
		High	2 670.00	32.36	1.722
	256QAM	Low	2 516.00	32.82	1.914
		Middle	2 583.00	32.33	1.710
		High	2 670.00	32.30	1.698
Port 3	QPSK	Low	2 516.00	32.43	1.750
		Middle	2 583.00	32.48	1.770
		High	2 670.00	32.24	1.675
	16QAM	Low	2 516.00	32.68	1.854
		Middle	2 583.00	32.51	1.782
		High	2 670.00	32.67	1.849
	64QAM	Low	2 516.00	32.64	1.837
		Middle	2 583.00	32.72	1.871
		High	2 670.00	32.32	1.706
	256QAM	Low	2 516.00	32.71	1.866
		Middle	2 583.00	32.59	1.816
		High	2 670.00	32.39	1.734
Port 4	QPSK	Low	2 516.00	32.22	1.667
		Middle	2 583.00	32.34	1.714
		High	2 670.00	32.10	1.622
	16QAM	Low	2 516.00	32.60	1.820
		Middle	2 583.00	32.51	1.782
		High	2 670.00	32.45	1.758
	64QAM	Low	2 516.00	32.61	1.824
		Middle	2 583.00	32.50	1.778
		High	2 670.00	32.33	1.710
	256QAM	Low	2 516.00	32.59	1.816
		Middle	2 583.00	32.61	1.824
		High	2 670.00	32.09	1.618
Port 5	QPSK	Low	2 516.00	32.52	1.786
		Middle	2 583.00	31.98	1.578

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 670.00	32.16	1.644
		Low	2 516.00	32.47	1.766
		Middle	2 583.00	32.38	1.730
		High	2 670.00	32.35	1.718
	64QAM	Low	2 516.00	32.65	1.841
		Middle	2 583.00	32.17	1.648
		High	2 670.00	32.26	1.683
	256QAM	Low	2 516.00	32.71	1.866
		Middle	2 583.00	32.30	1.698
		High	2 670.00	32.30	1.698
Port 6	QPSK	Low	2 516.00	32.45	1.758
		Middle	2 583.00	32.19	1.656
		High	2 670.00	32.43	1.750
	16QAM	Low	2 516.00	32.48	1.770
		Middle	2 583.00	32.42	1.746
		High	2 670.00	32.46	1.762
	64QAM	Low	2 516.00	32.40	1.738
		Middle	2 583.00	32.63	1.832
		High	2 670.00	32.63	1.832
	256QAM	Low	2 516.00	32.47	1.766
		Middle	2 583.00	32.47	1.766
		High	2 670.00	32.46	1.762
Port 7	QPSK	Low	2 516.00	32.29	1.694
		Middle	2 583.00	32.32	1.706
		High	2 670.00	32.23	1.671
	16QAM	Low	2 516.00	32.53	1.791
		Middle	2 583.00	32.39	1.734
		High	2 670.00	32.48	1.770
	64QAM	Low	2 516.00	32.74	1.879
		Middle	2 583.00	32.47	1.766
		High	2 670.00	32.41	1.742
	256QAM	Low	2 516.00	32.50	1.778

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 8		Middle	2 583.00	32.24	1.675
		High	2 670.00	32.10	1.622
		Low	2 516.00	32.37	1.726
	QPSK	Middle	2 583.00	32.53	1.791
		High	2 670.00	32.49	1.774
		Low	2 516.00	32.41	1.742
	16QAM	Middle	2 583.00	32.60	1.820
		High	2 670.00	32.61	1.824
		Low	2 516.00	32.58	1.811
	64QAM	Middle	2 583.00	32.90	1.950
		High	2 670.00	32.28	1.690
		Low	2 516.00	32.34	1.714
	256QAM	Middle	2 583.00	32.74	1.879
		High	2 670.00	32.54	1.795
		Low	2 516.00	32.52	1.786
Port 9	QPSK	Middle	2 583.00	32.49	1.774
		High	2 670.00	32.27	1.687
		Low	2 516.00	32.61	1.824
	16QAM	Middle	2 583.00	32.52	1.786
		High	2 670.00	32.40	1.738
		Low	2 516.00	32.49	1.774
	64QAM	Middle	2 583.00	32.66	1.845
		High	2 670.00	32.34	1.714
		Low	2 516.00	32.54	1.795
	256QAM	Middle	2 583.00	32.47	1.766
		High	2 670.00	32.53	1.791
		Low	2 516.00	32.42	1.746
Port 10	QPSK	Middle	2 583.00	32.33	1.710
		High	2 670.00	32.19	1.656
		Low	2 516.00	32.54	1.795
	16QAM	Middle	2 583.00	32.56	1.803
		High	2 670.00	32.27	1.687
		Low	2 516.00	32.42	1.746

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 516.00	32.61	1.824
		Middle	2 583.00	32.32	1.706
		High	2 670.00	32.23	1.671
	256QAM	Low	2 516.00	32.70	1.862
		Middle	2 583.00	32.56	1.803
		High	2 670.00	32.29	1.694
Port 11	QPSK	Low	2 516.00	32.62	1.828
		Middle	2 583.00	32.43	1.750
		High	2 670.00	32.39	1.734
	16QAM	Low	2 516.00	32.55	1.799
		Middle	2 583.00	32.70	1.862
		High	2 670.00	32.77	1.892
	64QAM	Low	2 516.00	32.77	1.892
		Middle	2 583.00	32.79	1.901
		High	2 670.00	32.56	1.803
	256QAM	Low	2 516.00	32.57	1.807
		Middle	2 583.00	32.78	1.897
		High	2 670.00	32.36	1.722
Port 12	QPSK	Low	2 516.00	32.66	1.845
		Middle	2 583.00	32.52	1.786
		High	2 670.00	32.39	1.734
	16QAM	Low	2 516.00	32.74	1.879
		Middle	2 583.00	32.62	1.828
		High	2 670.00	32.24	1.675
	64QAM	Low	2 516.00	32.75	1.884
		Middle	2 583.00	32.59	1.816
		High	2 670.00	32.23	1.671
	256QAM	Low	2 516.00	32.87	1.936
		Middle	2 583.00	32.69	1.858
		High	2 670.00	32.24	1.675
Port 13	QPSK	Low	2 516.00	32.25	1.679
		Middle	2 583.00	32.25	1.679

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 670.00	32.13	1.633
		Low	2 516.00	32.78	1.897
		Middle	2 583.00	32.27	1.687
		High	2 670.00	32.18	1.652
	64QAM	Low	2 516.00	32.65	1.841
		Middle	2 583.00	32.46	1.762
		High	2 670.00	32.34	1.714
	256QAM	Low	2 516.00	32.71	1.866
		Middle	2 583.00	32.09	1.618
		High	2 670.00	32.23	1.671
Port 14	QPSK	Low	2 516.00	32.47	1.766
		Middle	2 583.00	32.41	1.742
		High	2 670.00	32.51	1.782
	16QAM	Low	2 516.00	32.88	1.941
		Middle	2 583.00	32.69	1.858
		High	2 670.00	32.75	1.884
	64QAM	Low	2 516.00	32.68	1.854
		Middle	2 583.00	32.61	1.824
		High	2 670.00	32.50	1.778
	256QAM	Low	2 516.00	32.83	1.919
		Middle	2 583.00	32.65	1.841
		High	2 670.00	32.39	1.734
Port 15	QPSK	Low	2 516.00	32.62	1.828
		Middle	2 583.00	32.23	1.671
		High	2 670.00	32.54	1.795
	16QAM	Low	2 516.00	32.66	1.845
		Middle	2 583.00	32.48	1.770
		High	2 670.00	32.69	1.858
	64QAM	Low	2 516.00	32.71	1.866
		Middle	2 583.00	32.63	1.832
		High	2 670.00	32.37	1.726
	256QAM	Low	2 516.00	32.78	1.897

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 16		Middle	2 583.00	32.79	1.901
		High	2 670.00	32.41	1.742
		Low	2 516.00	32.83	1.919
	QPSK	Middle	2 583.00	32.48	1.770
		High	2 670.00	32.46	1.762
		Low	2 516.00	32.99	1.991
	16QAM	Middle	2 583.00	32.64	1.837
		High	2 670.00	32.72	1.871
		Low	2 516.00	32.74	1.879
	64QAM	Middle	2 583.00	32.98	1.986
		High	2 670.00	32.48	1.770
		Low	2 516.00	32.87	1.936
	256QAM	Middle	2 583.00	32.87	1.936
		High	2 670.00	32.49	1.774
		Low	2 516.00	32.47	1.766
Port 17	QPSK	Middle	2 583.00	32.72	1.871
		High	2 670.00	32.24	1.675
		Low	2 516.00	32.64	1.837
	16QAM	Middle	2 583.00	32.62	1.828
		High	2 670.00	33.04	2.014
		Low	2 516.00	32.63	1.832
	64QAM	Middle	2 583.00	33.02	2.004
		High	2 670.00	32.80	1.905
		Low	2 516.00	32.61	1.824
	256QAM	Middle	2 583.00	32.62	1.828
		High	2 670.00	32.56	1.803
		Low	2 516.00	32.81	1.910
Port 18	QPSK	Middle	2 583.00	32.77	1.892
		High	2 670.00	32.49	1.774
		Low	2 516.00	32.89	1.945
	16QAM	Middle	2 583.00	32.57	1.807
		High	2 670.00	32.88	1.941
		Low	2 516.00	32.81	1.910

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 516.00	32.89	1.945
		Middle	2 583.00	32.52	1.786
		High	2 670.00	32.49	1.774
	256QAM	Low	2 516.00	32.65	1.841
		Middle	2 583.00	32.72	1.871
		High	2 670.00	32.58	1.811
Port 19	QPSK	Low	2 516.00	32.79	1.901
		Middle	2 583.00	32.33	1.710
		High	2 670.00	32.33	1.710
	16QAM	Low	2 516.00	32.73	1.875
		Middle	2 583.00	32.34	1.714
		High	2 670.00	32.77	1.892
	64QAM	Low	2 516.00	32.98	1.986
		Middle	2 583.00	32.40	1.738
		High	2 670.00	32.35	1.718
	256QAM	Low	2 516.00	32.78	1.897
		Middle	2 583.00	32.71	1.866
		High	2 670.00	32.40	1.738
Port 20	QPSK	Low	2 516.00	32.48	1.770
		Middle	2 583.00	32.37	1.726
		High	2 670.00	32.47	1.766
	16QAM	Low	2 516.00	32.98	1.986
		Middle	2 583.00	32.40	1.738
		High	2 670.00	32.71	1.866
	64QAM	Low	2 516.00	32.64	1.837
		Middle	2 583.00	32.45	1.758
		High	2 670.00	32.48	1.770
	256QAM	Low	2 516.00	32.86	1.932
		Middle	2 583.00	32.47	1.766
		High	2 670.00	32.61	1.824
Port 21	QPSK	Low	2 516.00	32.45	1.758
		Middle	2 583.00	31.99	1.581

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 670.00	32.50	1.778
		Low	2 516.00	32.71	1.866
		Middle	2 583.00	32.42	1.746
		High	2 670.00	32.79	1.901
	64QAM	Low	2 516.00	32.97	1.982
		Middle	2 583.00	32.32	1.706
		High	2 670.00	32.69	1.858
	256QAM	Low	2 516.00	32.62	1.828
		Middle	2 583.00	32.71	1.866
		High	2 670.00	32.51	1.782
Port 22	QPSK	Low	2 516.00	32.64	1.837
		Middle	2 583.00	31.96	1.570
		High	2 670.00	32.80	1.905
	16QAM	Low	2 516.00	32.72	1.871
		Middle	2 583.00	32.51	1.782
		High	2 670.00	32.68	1.854
	64QAM	Low	2 516.00	32.82	1.914
		Middle	2 583.00	32.67	1.849
		High	2 670.00	32.58	1.811
	256QAM	Low	2 516.00	32.79	1.901
		Middle	2 583.00	32.48	1.770
		High	2 670.00	32.53	1.791
Port 23	QPSK	Low	2 516.00	32.49	1.774
		Middle	2 583.00	32.20	1.660
		High	2 670.00	32.35	1.718
	16QAM	Low	2 516.00	32.61	1.824
		Middle	2 583.00	32.66	1.845
		High	2 670.00	32.70	1.862
	64QAM	Low	2 516.00	32.87	1.936
		Middle	2 583.00	32.45	1.758
		High	2 670.00	32.33	1.710
	256QAM	Low	2 516.00	32.77	1.892

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 24		Middle	2 583.00	32.35	1.718
		High	2 670.00	32.54	1.795
		Low	2 516.00	32.54	1.795
	QPSK	Middle	2 583.00	32.74	1.879
		High	2 670.00	32.50	1.778
		Low	2 516.00	32.87	1.936
	16QAM	Middle	2 583.00	32.70	1.862
		High	2 670.00	32.73	1.875
		Low	2 516.00	32.94	1.968
	64QAM	Middle	2 583.00	33.04	2.014
		High	2 670.00	32.41	1.742
		Low	2 516.00	32.95	1.972
	256QAM	Middle	2 583.00	32.57	1.807
		High	2 670.00	32.36	1.722
		Low	2 516.00	32.65	1.841
Port 25	QPSK	Middle	2 583.00	32.52	1.786
		High	2 670.00	32.14	1.637
		Low	2 516.00	33.13	2.056
	16QAM	Middle	2 583.00	32.75	1.884
		High	2 670.00	32.45	1.758
		Low	2 516.00	32.88	1.941
	64QAM	Middle	2 583.00	32.77	1.892
		High	2 670.00	32.09	1.618
		Low	2 516.00	32.94	1.968
	256QAM	Middle	2 583.00	32.57	1.807
		High	2 670.00	32.24	1.675
		Low	2 516.00	32.67	1.849
Port 26	QPSK	Middle	2 583.00	32.35	1.718
		High	2 670.00	32.64	1.837
		Low	2 516.00	32.80	1.905
	16QAM	Middle	2 583.00	32.66	1.845
		High	2 670.00	32.70	1.862
		Low	2 516.00	32.67	1.849

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 516.00	32.80	1.905
		Middle	2 583.00	32.78	1.897
		High	2 670.00	32.68	1.854
	256QAM	Low	2 516.00	32.82	1.914
		Middle	2 583.00	32.60	1.820
		High	2 670.00	32.42	1.746
Port 27	QPSK	Low	2 516.00	32.59	1.816
		Middle	2 583.00	32.57	1.807
		High	2 670.00	32.44	1.754
	16QAM	Low	2 516.00	32.83	1.919
		Middle	2 583.00	32.31	1.702
		High	2 670.00	32.74	1.879
	64QAM	Low	2 516.00	32.81	1.910
		Middle	2 583.00	32.72	1.871
		High	2 670.00	32.63	1.832
	256QAM	Low	2 516.00	32.88	1.941
		Middle	2 583.00	32.60	1.820
		High	2 670.00	32.65	1.841
Port 28	QPSK	Low	2 516.00	32.58	1.811
		Middle	2 583.00	32.65	1.841
		High	2 670.00	32.58	1.811
	16QAM	Low	2 516.00	32.63	1.832
		Middle	2 583.00	32.70	1.862
		High	2 670.00	32.72	1.871
	64QAM	Low	2 516.00	32.70	1.862
		Middle	2 583.00	32.67	1.849
		High	2 670.00	32.71	1.866
	256QAM	Low	2 516.00	32.66	1.845
		Middle	2 583.00	32.71	1.866
		High	2 670.00	32.37	1.726
Port 29	QPSK	Low	2 516.00	32.41	1.742
		Middle	2 583.00	32.56	1.803

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 670.00	32.71	1.866
		Low	2 516.00	32.77	1.892
		Middle	2 583.00	32.74	1.879
		High	2 670.00	32.75	1.884
	64QAM	Low	2 516.00	32.63	1.832
		Middle	2 583.00	32.62	1.828
		High	2 670.00	32.63	1.832
	256QAM	Low	2 516.00	32.56	1.803
		Middle	2 583.00	32.73	1.875
		High	2 670.00	32.47	1.766
Port 30	QPSK	Low	2 516.00	32.54	1.795
		Middle	2 583.00	32.60	1.820
		High	2 670.00	32.48	1.770
	16QAM	Low	2 516.00	32.74	1.879
		Middle	2 583.00	32.83	1.919
		High	2 670.00	32.78	1.897
	64QAM	Low	2 516.00	32.73	1.875
		Middle	2 583.00	33.11	2.046
		High	2 670.00	32.50	1.778
	256QAM	Low	2 516.00	32.92	1.959
		Middle	2 583.00	32.89	1.945
		High	2 670.00	32.53	1.791
Port 31	QPSK	Low	2 516.00	32.82	1.914
		Middle	2 583.00	32.98	1.986
		High	2 670.00	33.14	2.061
	16QAM	Low	2 516.00	33.03	2.009
		Middle	2 583.00	33.18	2.080
		High	2 670.00	33.17	2.075
	64QAM	Low	2 516.00	32.99	1.991
		Middle	2 583.00	33.05	2.018
		High	2 670.00	33.01	2.000
	256QAM	Low	2 516.00	33.00	1.995

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 32		Middle	2 583.00	33.17	2.075
		High	2 670.00	33.09	2.037
		Low	2 516.00	32.71	1.866
	QPSK	Middle	2 583.00	32.77	1.892
		High	2 670.00	32.84	1.923
		Low	2 516.00	33.02	2.004
	16QAM	Middle	2 583.00	32.75	1.884
		High	2 670.00	32.94	1.968
		Low	2 516.00	32.91	1.954
	64QAM	Middle	2 583.00	32.76	1.888
		High	2 670.00	32.96	1.977
		Low	2 516.00	33.01	2.000
	256QAM	Middle	2 583.00	32.72	1.871
		High	2 670.00	32.28	1.690
		Low	2 516.00	32.74	1.879
Port 33	QPSK	Middle	2 583.00	32.75	1.884
		High	2 670.00	32.86	1.932
		Low	2 516.00	32.75	1.884
	16QAM	Middle	2 583.00	32.74	1.879
		High	2 670.00	32.77	1.892
		Low	2 516.00	33.00	1.995
	64QAM	Middle	2 583.00	32.95	1.972
		High	2 670.00	32.71	1.866
		Low	2 516.00	32.72	1.871
	256QAM	Middle	2 583.00	32.75	1.884
		High	2 670.00	32.42	1.746
		Low	2 516.00	32.65	1.841
Port 34	QPSK	Middle	2 583.00	32.86	1.932
		High	2 670.00	32.44	1.754
		Low	2 516.00	32.96	1.977
	16QAM	Middle	2 583.00	32.61	1.824
		High	2 670.00	32.67	1.849
		Low	2 516.00	32.65	1.841

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 516.00	33.02	2.004
		Middle	2 583.00	32.61	1.824
		High	2 670.00	32.62	1.828
	256QAM	Low	2 516.00	33.13	2.056
		Middle	2 583.00	32.67	1.849
		High	2 670.00	32.34	1.714
Port 35	QPSK	Low	2 516.00	32.56	1.803
		Middle	2 583.00	32.84	1.923
		High	2 670.00	32.64	1.837
	16QAM	Low	2 516.00	32.92	1.959
		Middle	2 583.00	32.91	1.954
		High	2 670.00	32.85	1.928
	64QAM	Low	2 516.00	32.72	1.871
		Middle	2 583.00	32.73	1.875
		High	2 670.00	33.14	2.061
	256QAM	Low	2 516.00	32.86	1.932
		Middle	2 583.00	32.90	1.950
		High	2 670.00	32.45	1.758
Port 36	QPSK	Low	2 516.00	32.98	1.986
		Middle	2 583.00	32.48	1.770
		High	2 670.00	32.77	1.892
	16QAM	Low	2 516.00	32.70	1.862
		Middle	2 583.00	32.64	1.837
		High	2 670.00	32.99	1.991
	64QAM	Low	2 516.00	32.99	1.991
		Middle	2 583.00	32.71	1.866
		High	2 670.00	32.95	1.972
	256QAM	Low	2 516.00	32.81	1.910
		Middle	2 583.00	32.64	1.837
		High	2 670.00	32.71	1.866
Port 37	QPSK	Low	2 516.00	33.02	2.004
		Middle	2 583.00	32.41	1.742

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 670.00	32.64	1.837
		Low	2 516.00	33.08	2.032
		Middle	2 583.00	32.71	1.866
		High	2 670.00	32.94	1.968
	64QAM	Low	2 516.00	33.02	2.004
		Middle	2 583.00	32.82	1.914
		High	2 670.00	32.81	1.910
	256QAM	Low	2 516.00	33.00	1.995
		Middle	2 583.00	32.79	1.901
		High	2 670.00	32.39	1.734
Port 38	QPSK	Low	2 516.00	32.72	1.871
		Middle	2 583.00	32.50	1.778
		High	2 670.00	32.81	1.910
	16QAM	Low	2 516.00	33.19	2.084
		Middle	2 583.00	32.80	1.905
		High	2 670.00	32.98	1.986
	64QAM	Low	2 516.00	33.07	2.028
		Middle	2 583.00	32.62	1.828
		High	2 670.00	33.00	1.995
	256QAM	Low	2 516.00	32.84	1.923
		Middle	2 583.00	32.83	1.919
		High	2 670.00	32.96	1.977
Port 39	QPSK	Low	2 516.00	32.85	1.928
		Middle	2 583.00	32.54	1.795
		High	2 670.00	32.71	1.866
	16QAM	Low	2 516.00	32.89	1.945
		Middle	2 583.00	32.75	1.884
		High	2 670.00	32.90	1.950
	64QAM	Low	2 516.00	32.93	1.963
		Middle	2 583.00	32.66	1.845
		High	2 670.00	32.73	1.875
	256QAM	Low	2 516.00	32.87	1.936

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 40		Middle	2 583.00	32.63	1.832
		High	2 670.00	32.47	1.766
		Low	2 516.00	32.47	1.766
	QPSK	Middle	2 583.00	32.68	1.854
		High	2 670.00	32.27	1.687
		Low	2 516.00	32.65	1.841
	16QAM	Middle	2 583.00	32.91	1.954
		High	2 670.00	32.60	1.820
		Low	2 516.00	32.62	1.828
	64QAM	Middle	2 583.00	32.55	1.799
		High	2 670.00	32.65	1.841
		Low	2 516.00	32.73	1.875
	256QAM	Middle	2 583.00	32.90	1.950
		High	2 670.00	32.18	1.652
		Low	2 516.00	32.50	1.778
Port 41	QPSK	Middle	2 583.00	32.67	1.849
		High	2 670.00	32.56	1.803
		Low	2 516.00	32.96	1.977
	16QAM	Middle	2 583.00	32.80	1.905
		High	2 670.00	32.74	1.879
		Low	2 516.00	32.79	1.901
	64QAM	Middle	2 583.00	32.72	1.871
		High	2 670.00	32.65	1.841
		Low	2 516.00	32.61	1.824
	256QAM	Middle	2 583.00	32.36	1.722
		High	2 670.00	32.21	1.663
		Low	2 516.00	32.51	1.782
Port 42	QPSK	Middle	2 583.00	32.46	1.762
		High	2 670.00	32.54	1.795
		Low	2 516.00	32.65	1.841
	16QAM	Middle	2 583.00	32.52	1.786
		High	2 670.00	32.60	1.820
		Low	2 516.00	32.51	1.782

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 516.00	32.69	1.858
		Middle	2 583.00	32.68	1.854
		High	2 670.00	32.57	1.807
	256QAM	Low	2 516.00	32.78	1.897
		Middle	2 583.00	32.44	1.754
		High	2 670.00	32.49	1.774
Port 43	QPSK	Low	2 516.00	32.69	1.858
		Middle	2 583.00	32.55	1.799
		High	2 670.00	32.58	1.811
	16QAM	Low	2 516.00	32.93	1.963
		Middle	2 583.00	32.59	1.816
		High	2 670.00	32.66	1.845
	64QAM	Low	2 516.00	33.00	1.995
		Middle	2 583.00	32.57	1.807
		High	2 670.00	32.80	1.905
	256QAM	Low	2 516.00	32.82	1.914
		Middle	2 583.00	32.53	1.791
		High	2 670.00	32.43	1.750
Port 44	QPSK	Low	2 516.00	32.19	1.656
		Middle	2 583.00	32.27	1.687
		High	2 670.00	32.56	1.803
	16QAM	Low	2 516.00	32.44	1.754
		Middle	2 583.00	32.36	1.722
		High	2 670.00	32.46	1.762
	64QAM	Low	2 516.00	32.72	1.871
		Middle	2 583.00	32.43	1.750
		High	2 670.00	32.55	1.799
	256QAM	Low	2 516.00	32.64	1.837
		Middle	2 583.00	32.26	1.683
		High	2 670.00	32.34	1.714
Port 45	QPSK	Low	2 516.00	32.51	1.782
		Middle	2 583.00	32.31	1.702

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 670.00	32.38	1.730
		Low	2 516.00	32.47	1.766
		Middle	2 583.00	32.39	1.734
		High	2 670.00	32.57	1.807
	64QAM	Low	2 516.00	32.68	1.854
		Middle	2 583.00	32.65	1.841
		High	2 670.00	32.52	1.786
	256QAM	Low	2 516.00	32.64	1.837
		Middle	2 583.00	32.49	1.774
		High	2 670.00	32.22	1.667
Port 46	QPSK	Low	2 516.00	32.54	1.795
		Middle	2 583.00	32.58	1.811
		High	2 670.00	32.58	1.811
	16QAM	Low	2 516.00	32.60	1.820
		Middle	2 583.00	32.54	1.795
		High	2 670.00	32.48	1.770
	64QAM	Low	2 516.00	32.70	1.862
		Middle	2 583.00	32.68	1.854
		High	2 670.00	32.61	1.824
	256QAM	Low	2 516.00	32.76	1.888
		Middle	2 583.00	32.74	1.879
		High	2 670.00	32.45	1.758
Port 47	QPSK	Low	2 516.00	32.68	1.854
		Middle	2 583.00	32.48	1.770
		High	2 670.00	32.62	1.828
	16QAM	Low	2 516.00	32.92	1.959
		Middle	2 583.00	32.34	1.714
		High	2 670.00	32.53	1.791
	64QAM	Low	2 516.00	32.83	1.919
		Middle	2 583.00	32.69	1.858
		High	2 670.00	32.58	1.811
	256QAM	Low	2 516.00	32.87	1.936

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 48		Middle	2 583.00	32.73	1.875
		High	2 670.00	32.19	1.656
		Low	2 516.00	32.69	1.858
	QPSK	Middle	2 583.00	32.68	1.854
		High	2 670.00	32.34	1.714
		Low	2 516.00	32.82	1.914
	16QAM	Middle	2 583.00	32.70	1.862
		High	2 670.00	32.71	1.866
		Low	2 516.00	32.82	1.914
	64QAM	Middle	2 583.00	32.69	1.858
		High	2 670.00	32.66	1.845
		Low	2 516.00	33.00	1.995
	256QAM	Middle	2 583.00	32.54	1.795
		High	2 670.00	32.50	1.778
		Low	2 516.00	32.22	1.667
Port 49	QPSK	Middle	2 583.00	32.05	1.603
		High	2 670.00	32.42	1.746
		Low	2 516.00	32.56	1.803
	16QAM	Middle	2 583.00	32.59	1.816
		High	2 670.00	32.47	1.766
		Low	2 516.00	32.71	1.866
	64QAM	Middle	2 583.00	32.26	1.683
		High	2 670.00	32.70	1.862
		Low	2 516.00	32.49	1.774
	256QAM	Middle	2 583.00	32.49	1.774
		High	2 670.00	32.24	1.675
		Low	2 516.00	32.40	1.738
Port 50	QPSK	Middle	2 583.00	32.31	1.702
		High	2 670.00	32.26	1.683
		Low	2 516.00	32.75	1.884
	16QAM	Middle	2 583.00	32.51	1.782
		High	2 670.00	32.47	1.766
		Low	2 516.00	32.40	1.738

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 516.00	32.61	1.824
		Middle	2 583.00	32.54	1.795
		High	2 670.00	32.70	1.862
	256QAM	Low	2 516.00	32.56	1.803
		Middle	2 583.00	32.71	1.866
		High	2 670.00	32.37	1.726
Port 51	QPSK	Low	2 516.00	32.26	1.683
		Middle	2 583.00	32.31	1.702
		High	2 670.00	32.21	1.663
	16QAM	Low	2 516.00	32.63	1.832
		Middle	2 583.00	32.47	1.766
		High	2 670.00	32.55	1.799
	64QAM	Low	2 516.00	32.56	1.803
		Middle	2 583.00	32.59	1.816
		High	2 670.00	32.31	1.702
	256QAM	Low	2 516.00	32.60	1.820
		Middle	2 583.00	32.39	1.734
		High	2 670.00	32.13	1.633
Port 52	QPSK	Low	2 516.00	32.32	1.706
		Middle	2 583.00	31.96	1.570
		High	2 670.00	32.44	1.754
	16QAM	Low	2 516.00	32.71	1.866
		Middle	2 583.00	32.56	1.803
		High	2 670.00	32.64	1.837
	64QAM	Low	2 516.00	32.75	1.884
		Middle	2 583.00	32.50	1.778
		High	2 670.00	32.56	1.803
	256QAM	Low	2 516.00	32.57	1.807
		Middle	2 583.00	32.77	1.892
		High	2 670.00	32.23	1.671
Port 53	QPSK	Low	2 516.00	32.54	1.795
		Middle	2 583.00	32.23	1.671

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 670.00	32.62	1.828
		Low	2 516.00	32.70	1.862
		Middle	2 583.00	32.43	1.750
		High	2 670.00	32.78	1.897
	64QAM	Low	2 516.00	32.74	1.879
		Middle	2 583.00	32.67	1.849
		High	2 670.00	32.72	1.871
	256QAM	Low	2 516.00	32.85	1.928
		Middle	2 583.00	32.41	1.742
		High	2 670.00	32.23	1.671
Port 54	QPSK	Low	2 516.00	32.30	1.698
		Middle	2 583.00	32.43	1.750
		High	2 670.00	32.64	1.837
	16QAM	Low	2 516.00	32.36	1.722
		Middle	2 583.00	32.70	1.862
		High	2 670.00	32.84	1.923
	64QAM	Low	2 516.00	32.41	1.742
		Middle	2 583.00	32.44	1.754
		High	2 670.00	32.60	1.820
	256QAM	Low	2 516.00	32.75	1.884
		Middle	2 583.00	32.48	1.770
		High	2 670.00	32.13	1.633
Port 55	QPSK	Low	2 516.00	32.45	1.758
		Middle	2 583.00	32.24	1.675
		High	2 670.00	32.37	1.726
	16QAM	Low	2 516.00	32.81	1.910
		Middle	2 583.00	32.51	1.782
		High	2 670.00	32.59	1.816
	64QAM	Low	2 516.00	32.42	1.746
		Middle	2 583.00	32.70	1.862
		High	2 670.00	32.64	1.837
	256QAM	Low	2 516.00	32.64	1.837

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 56		Middle	2 583.00	32.54	1.795
		High	2 670.00	32.12	1.629
		Low	2 516.00	32.63	1.832
	QPSK	Middle	2 583.00	31.99	1.581
		High	2 670.00	32.19	1.656
		Low	2 516.00	32.78	1.897
	16QAM	Middle	2 583.00	32.47	1.766
		High	2 670.00	32.62	1.828
		Low	2 516.00	32.76	1.888
	64QAM	Middle	2 583.00	32.10	1.622
		High	2 670.00	32.55	1.799
		Low	2 516.00	32.68	1.854
	256QAM	Middle	2 583.00	32.10	1.622
		High	2 670.00	31.98	1.578
		Low	2 516.00	32.36	1.722
Port 57	QPSK	Middle	2 583.00	32.26	1.683
		High	2 670.00	32.24	1.675
		Low	2 516.00	32.54	1.795
	16QAM	Middle	2 583.00	32.24	1.675
		High	2 670.00	32.39	1.734
		Low	2 516.00	32.88	1.941
	64QAM	Middle	2 583.00	32.44	1.754
		High	2 670.00	32.50	1.778
		Low	2 516.00	32.55	1.799
	256QAM	Middle	2 583.00	32.19	1.656
		High	2 670.00	32.40	1.738
		Low	2 516.00	32.28	1.690
Port 58	QPSK	Middle	2 583.00	32.12	1.629
		High	2 670.00	32.37	1.726
		Low	2 516.00	32.11	1.626
	16QAM	Middle	2 583.00	32.24	1.675
		High	2 670.00	32.39	1.734
		Low	2 516.00	32.28	1.690

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 516.00	32.56	1.803
		Middle	2 583.00	31.97	1.574
		High	2 670.00	32.40	1.738
	256QAM	Low	2 516.00	32.33	1.710
		Middle	2 583.00	32.13	1.633
		High	2 670.00	31.91	1.552
Port 59	QPSK	Low	2 516.00	32.29	1.694
		Middle	2 583.00	32.10	1.622
		High	2 670.00	32.18	1.652
	16QAM	Low	2 516.00	32.52	1.786
		Middle	2 583.00	32.41	1.742
		High	2 670.00	32.47	1.766
	64QAM	Low	2 516.00	32.52	1.786
		Middle	2 583.00	32.49	1.774
		High	2 670.00	32.29	1.694
	256QAM	Low	2 516.00	32.23	1.671
		Middle	2 583.00	32.32	1.706
		High	2 670.00	32.16	1.644
Port 60	QPSK	Low	2 516.00	32.38	1.730
		Middle	2 583.00	32.39	1.734
		High	2 670.00	32.51	1.782
	16QAM	Low	2 516.00	32.46	1.762
		Middle	2 583.00	32.46	1.762
		High	2 670.00	32.82	1.914
	64QAM	Low	2 516.00	32.70	1.862
		Middle	2 583.00	32.35	1.718
		High	2 670.00	32.65	1.841
	256QAM	Low	2 516.00	32.65	1.841
		Middle	2 583.00	32.46	1.762
		High	2 670.00	32.33	1.710
Port 61	QPSK	Low	2 516.00	32.44	1.754

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
		Middle	2 583.00	32.27	1.687
		High	2 670.00	32.32	1.706
	16QAM	Low	2 516.00	32.47	1.766
		Middle	2 583.00	31.99	1.581
		High	2 670.00	32.61	1.824
	64QAM	Low	2 516.00	32.70	1.862
		Middle	2 583.00	32.14	1.637
		High	2 670.00	32.61	1.824
	256QAM	Low	2 516.00	32.62	1.828
		Middle	2 583.00	32.23	1.671
		High	2 670.00	32.39	1.734
Port 62	QPSK	Low	2 516.00	32.38	1.730
		Middle	2 583.00	32.42	1.746
		High	2 670.00	32.19	1.656
	16QAM	Low	2 516.00	32.39	1.734
		Middle	2 583.00	32.34	1.714
		High	2 670.00	32.40	1.738
	64QAM	Low	2 516.00	32.60	1.820
		Middle	2 583.00	32.49	1.774
		High	2 670.00	32.55	1.799
	256QAM	Low	2 516.00	32.61	1.824
		Middle	2 583.00	32.70	1.862
		High	2 670.00	32.25	1.679
Port 63	QPSK	Low	2 516.00	32.53	1.791
		Middle	2 583.00	32.63	1.832
		High	2 670.00	32.52	1.786
	16QAM	Low	2 516.00	32.52	1.786
		Middle	2 583.00	32.74	1.879
		High	2 670.00	32.60	1.820
	64QAM	Low	2 516.00	32.66	1.845
		Middle	2 583.00	32.71	1.866
		High	2 670.00	32.43	1.750

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	256QAM	Low	2 516.00	32.48	1.770
		Middle	2 583.00	32.46	1.762
		High	2 670.00	32.03	1.596

* Because the results corrected by duty cycle are recorded, they do not match the test plot.

* This test report only contains the worst case plot data for each port and modulation.

Sum data of all port

Modulation	Channel	Frequency (MHz)	Summed Output Power (W)
QPSK	Low	2 516.00	114.478
	Middle	2 583.00	111.992
	High	2 670.00	112.597
16QAM	Low	2 516.00	119.542
	Middle	2 583.00	115.802
	High	2 670.00	117.701
64QAM	Low	2 516.00	120.337
	Middle	2 583.00	116.912
	High	2 670.00	115.371
256QAM	Low	2 516.00	119.550
	Middle	2 583.00	115.821
	High	2 670.00	110.602

20 MHz + 15 MHz Bandwidth / 2 Carriers

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 0	QPSK	Low	2 513.50	31.67	1.469
		Middle	2 583.00	31.82	1.521
		High	2 672.50	31.62	1.452
	16QAM	Low	2 513.50	31.77	1.503
		Middle	2 583.00	32.25	1.679
		High	2 672.50	32.06	1.607
	64QAM	Low	2 513.50	31.89	1.545
		Middle	2 583.00	32.20	1.660
		High	2 672.50	31.86	1.535
	256QAM	Low	2 513.50	31.90	1.549
		Middle	2 583.00	31.95	1.567
		High	2 672.50	31.81	1.517
Port 1	QPSK	Low	2 513.50	31.55	1.429
		Middle	2 583.00	31.77	1.503
		High	2 672.50	31.62	1.452
	16QAM	Low	2 513.50	31.82	1.521
		Middle	2 583.00	32.13	1.633
		High	2 672.50	31.87	1.538
	64QAM	Low	2 513.50	31.80	1.514
		Middle	2 583.00	31.99	1.581
		High	2 672.50	31.74	1.493
	256QAM	Low	2 513.50	31.88	1.542
		Middle	2 583.00	31.75	1.496
		High	2 672.50	31.59	1.442
Port 2	QPSK	Low	2 513.50	31.69	1.476
		Middle	2 583.00	32.00	1.585
		High	2 672.50	31.74	1.493
	16QAM	Low	2 513.50	31.62	1.452
		Middle	2 583.00	32.53	1.791
		High	2 672.50	32.09	1.618

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 513.50	31.81	1.517
		Middle	2 583.00	32.27	1.687
		High	2 672.50	32.00	1.585
	256QAM	Low	2 513.50	31.86	1.535
		Middle	2 583.00	31.74	1.493
		High	2 672.50	31.75	1.496
Port 3	QPSK	Low	2 513.50	31.66	1.466
		Middle	2 583.00	31.74	1.493
		High	2 672.50	31.65	1.462
	16QAM	Low	2 513.50	31.86	1.535
		Middle	2 583.00	32.05	1.603
		High	2 672.50	31.89	1.545
	64QAM	Low	2 513.50	31.68	1.472
		Middle	2 583.00	31.84	1.528
		High	2 672.50	31.99	1.581
	256QAM	Low	2 513.50	31.77	1.503
		Middle	2 583.00	32.07	1.611
		High	2 672.50	31.74	1.493
Port 4	QPSK	Low	2 513.50	31.73	1.489
		Middle	2 583.00	32.25	1.679
		High	2 672.50	31.30	1.349
	16QAM	Low	2 513.50	31.96	1.570
		Middle	2 583.00	32.09	1.618
		High	2 672.50	31.80	1.514
	64QAM	Low	2 513.50	31.60	1.445
		Middle	2 583.00	32.07	1.611
		High	2 672.50	31.58	1.439
	256QAM	Low	2 513.50	31.79	1.510
		Middle	2 583.00	31.70	1.479
		High	2 672.50	31.72	1.486
Port 5	QPSK	Low	2 513.50	31.61	1.449
		Middle	2 583.00	31.44	1.393

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 672.50	31.70	1.479
		Low	2 513.50	31.75	1.496
		Middle	2 583.00	31.80	1.514
		High	2 672.50	31.75	1.496
	64QAM	Low	2 513.50	31.75	1.496
		Middle	2 583.00	31.63	1.455
		High	2 672.50	31.78	1.507
	256QAM	Low	2 513.50	31.68	1.472
		Middle	2 583.00	31.63	1.455
		High	2 672.50	31.97	1.574
Port 6	QPSK	Low	2 513.50	31.76	1.500
		Middle	2 583.00	31.53	1.422
		High	2 672.50	31.65	1.462
	16QAM	Low	2 513.50	31.70	1.479
		Middle	2 583.00	31.92	1.556
		High	2 672.50	31.90	1.549
	64QAM	Low	2 513.50	31.68	1.472
		Middle	2 583.00	31.81	1.517
		High	2 672.50	31.92	1.556
	256QAM	Low	2 513.50	31.60	1.445
		Middle	2 583.00	31.81	1.517
		High	2 672.50	31.76	1.500
Port 7	QPSK	Low	2 513.50	31.81	1.517
		Middle	2 583.00	31.43	1.390
		High	2 672.50	31.63	1.455
	16QAM	Low	2 513.50	32.11	1.626
		Middle	2 583.00	32.04	1.600
		High	2 672.50	31.92	1.556
	64QAM	Low	2 513.50	31.65	1.462
		Middle	2 583.00	31.81	1.517
		High	2 672.50	31.87	1.538
	256QAM	Low	2 513.50	31.73	1.489

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 8		Middle	2 583.00	31.71	1.483
		High	2 672.50	32.05	1.603
		Low	2 513.50	31.56	1.432
	QPSK	Middle	2 583.00	31.58	1.439
		High	2 672.50	31.48	1.406
		Low	2 513.50	31.84	1.528
	16QAM	Middle	2 583.00	31.99	1.581
		High	2 672.50	31.96	1.570
		Low	2 513.50	31.69	1.476
	64QAM	Middle	2 583.00	32.07	1.611
		High	2 672.50	31.75	1.496
		Low	2 513.50	31.77	1.503
	256QAM	Middle	2 583.00	31.97	1.574
		High	2 672.50	31.88	1.542
		Low	2 513.50	31.60	1.445
Port 9	QPSK	Middle	2 583.00	31.79	1.510
		High	2 672.50	31.60	1.445
		Low	2 513.50	31.94	1.563
	16QAM	Middle	2 583.00	32.04	1.600
		High	2 672.50	31.74	1.493
		Low	2 513.50	31.74	1.493
	64QAM	Middle	2 583.00	31.90	1.549
		High	2 672.50	31.96	1.570
		Low	2 513.50	31.89	1.545
	256QAM	Middle	2 583.00	31.85	1.531
		High	2 672.50	31.96	1.570
		Low	2 513.50	31.96	1.570
Port 10	QPSK	Middle	2 583.00	31.76	1.500
		High	2 672.50	31.53	1.422
		Low	2 513.50	31.91	1.552
	16QAM	Middle	2 583.00	31.77	1.503
		High	2 672.50	31.97	1.574
		Low	2 513.50	31.96	1.570

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 513.50	31.86	1.535
		Middle	2 583.00	31.88	1.542
		High	2 672.50	31.89	1.545
	256QAM	Low	2 513.50	32.06	1.607
		Middle	2 583.00	31.91	1.552
		High	2 672.50	32.06	1.607
Port 11	QPSK	Low	2 513.50	31.82	1.521
		Middle	2 583.00	31.98	1.578
		High	2 672.50	31.38	1.374
	16QAM	Low	2 513.50	31.99	1.581
		Middle	2 583.00	31.95	1.567
		High	2 672.50	31.61	1.449
	64QAM	Low	2 513.50	32.01	1.589
		Middle	2 583.00	31.90	1.549
		High	2 672.50	32.15	1.641
	256QAM	Low	2 513.50	31.94	1.563
		Middle	2 583.00	32.04	1.600
		High	2 672.50	32.03	1.596
Port 12	QPSK	Low	2 513.50	31.86	1.535
		Middle	2 583.00	31.78	1.507
		High	2 672.50	31.55	1.429
	16QAM	Low	2 513.50	31.83	1.524
		Middle	2 583.00	32.03	1.596
		High	2 672.50	31.84	1.528
	64QAM	Low	2 513.50	31.97	1.574
		Middle	2 583.00	31.99	1.581
		High	2 672.50	31.62	1.452
	256QAM	Low	2 513.50	31.90	1.549
		Middle	2 583.00	32.03	1.596
		High	2 672.50	31.88	1.542
Port 13	QPSK	Low	2 513.50	31.73	1.489
		Middle	2 583.00	31.70	1.479

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 672.50	31.45	1.396
		Low	2 513.50	31.79	1.510
		Middle	2 583.00	31.60	1.445
		High	2 672.50	31.68	1.472
	64QAM	Low	2 513.50	31.81	1.517
		Middle	2 583.00	31.81	1.517
		High	2 672.50	31.72	1.486
	256QAM	Low	2 513.50	31.92	1.556
		Middle	2 583.00	31.63	1.455
		High	2 672.50	31.46	1.400
Port 14	QPSK	Low	2 513.50	31.58	1.439
		Middle	2 583.00	31.84	1.528
		High	2 672.50	31.51	1.416
	16QAM	Low	2 513.50	31.88	1.542
		Middle	2 583.00	31.94	1.563
		High	2 672.50	31.70	1.479
	64QAM	Low	2 513.50	31.65	1.462
		Middle	2 583.00	32.01	1.589
		High	2 672.50	31.57	1.435
	256QAM	Low	2 513.50	31.87	1.538
		Middle	2 583.00	31.83	1.524
		High	2 672.50	31.77	1.503
Port 15	QPSK	Low	2 513.50	31.89	1.545
		Middle	2 583.00	31.77	1.503
		High	2 672.50	31.67	1.469
	16QAM	Low	2 513.50	31.94	1.563
		Middle	2 583.00	31.90	1.549
		High	2 672.50	32.04	1.600
	64QAM	Low	2 513.50	31.81	1.517
		Middle	2 583.00	31.80	1.514
		High	2 672.50	32.07	1.611
	256QAM	Low	2 513.50	32.00	1.585

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 16		Middle	2 583.00	31.56	1.432
		High	2 672.50	32.06	1.607
		Low	2 513.50	31.98	1.578
	QPSK	Middle	2 583.00	32.25	1.679
		High	2 672.50	31.84	1.528
		Low	2 513.50	31.95	1.567
	16QAM	Middle	2 583.00	32.46	1.762
		High	2 672.50	32.08	1.614
		Low	2 513.50	31.92	1.556
	64QAM	Middle	2 583.00	32.38	1.730
		High	2 672.50	32.09	1.618
		Low	2 513.50	32.01	1.589
	256QAM	Middle	2 583.00	32.45	1.758
		High	2 672.50	32.03	1.596
		Low	2 513.50	31.74	1.493
Port 17	QPSK	Middle	2 583.00	31.73	1.489
		High	2 672.50	31.90	1.549
		Low	2 513.50	31.90	1.549
	16QAM	Middle	2 583.00	31.81	1.517
		High	2 672.50	32.33	1.710
		Low	2 513.50	31.99	1.581
	64QAM	Middle	2 583.00	32.04	1.600
		High	2 672.50	32.34	1.714
		Low	2 513.50	31.76	1.500
	256QAM	Middle	2 583.00	32.17	1.648
		High	2 672.50	32.15	1.641
		Low	2 513.50	31.98	1.578
Port 18	QPSK	Middle	2 583.00	31.84	1.528
		High	2 672.50	31.95	1.567
		Low	2 513.50	32.00	1.585
	16QAM	Middle	2 583.00	32.17	1.648
		High	2 672.50	31.96	1.570
		Low	2 513.50	31.98	1.578

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 513.50	31.60	1.445
		Middle	2 583.00	31.82	1.521
		High	2 672.50	31.93	1.560
	256QAM	Low	2 513.50	31.71	1.483
		Middle	2 583.00	31.73	1.489
		High	2 672.50	31.88	1.542
Port 19	QPSK	Low	2 513.50	31.74	1.493
		Middle	2 583.00	31.38	1.374
		High	2 672.50	31.96	1.570
	16QAM	Low	2 513.50	31.72	1.486
		Middle	2 583.00	31.59	1.442
		High	2 672.50	32.09	1.618
	64QAM	Low	2 513.50	31.74	1.493
		Middle	2 583.00	31.57	1.435
		High	2 672.50	31.66	1.466
	256QAM	Low	2 513.50	31.88	1.542
		Middle	2 583.00	31.75	1.496
		High	2 672.50	31.99	1.581
Port 20	QPSK	Low	2 513.50	31.76	1.500
		Middle	2 583.00	31.57	1.435
		High	2 672.50	31.73	1.489
	16QAM	Low	2 513.50	31.90	1.549
		Middle	2 583.00	31.86	1.535
		High	2 672.50	32.23	1.671
	64QAM	Low	2 513.50	32.02	1.592
		Middle	2 583.00	31.75	1.496
		High	2 672.50	32.30	1.698
	256QAM	Low	2 513.50	32.02	1.592
		Middle	2 583.00	31.74	1.493
		High	2 672.50	32.26	1.683
Port 21	QPSK	Low	2 513.50	31.77	1.503
		Middle	2 583.00	31.60	1.445

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 672.50	31.86	1.535
		Low	2 513.50	32.07	1.611
		Middle	2 583.00	31.85	1.531
		High	2 672.50	32.31	1.702
	64QAM	Low	2 513.50	31.98	1.578
		Middle	2 583.00	31.71	1.483
		High	2 672.50	32.21	1.663
	256QAM	Low	2 513.50	32.03	1.596
		Middle	2 583.00	31.69	1.476
		High	2 672.50	32.15	1.641
Port 22	QPSK	Low	2 513.50	31.86	1.535
		Middle	2 583.00	31.49	1.409
		High	2 672.50	31.74	1.493
	16QAM	Low	2 513.50	31.89	1.545
		Middle	2 583.00	31.62	1.452
		High	2 672.50	31.97	1.574
	64QAM	Low	2 513.50	31.84	1.528
		Middle	2 583.00	31.57	1.435
		High	2 672.50	32.27	1.687
	256QAM	Low	2 513.50	31.86	1.535
		Middle	2 583.00	31.52	1.419
		High	2 672.50	32.10	1.622
Port 23	QPSK	Low	2 513.50	31.86	1.535
		Middle	2 583.00	31.50	1.413
		High	2 672.50	32.04	1.600
	16QAM	Low	2 513.50	32.05	1.603
		Middle	2 583.00	31.90	1.549
		High	2 672.50	32.17	1.648
	64QAM	Low	2 513.50	31.98	1.578
		Middle	2 583.00	31.87	1.538
		High	2 672.50	31.86	1.535
	256QAM	Low	2 513.50	31.87	1.538

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 24		Middle	2 583.00	31.54	1.426
		High	2 672.50	32.07	1.611
		Low	2 513.50	31.85	1.531
	QPSK	Middle	2 583.00	32.14	1.637
		High	2 672.50	31.83	1.524
		Low	2 513.50	31.91	1.552
	16QAM	Middle	2 583.00	31.91	1.552
		High	2 672.50	31.65	1.462
		Low	2 513.50	31.99	1.581
	64QAM	Middle	2 583.00	32.11	1.626
		High	2 672.50	31.62	1.452
		Low	2 513.50	31.99	1.581
	256QAM	Middle	2 583.00	31.89	1.545
		High	2 672.50	31.66	1.466
		Low	2 513.50	32.12	1.629
Port 25	QPSK	Middle	2 583.00	31.77	1.503
		High	2 672.50	31.65	1.462
		Low	2 513.50	31.95	1.567
	16QAM	Middle	2 583.00	31.99	1.581
		High	2 672.50	31.67	1.469
		Low	2 513.50	32.26	1.683
	64QAM	Middle	2 583.00	31.77	1.503
		High	2 672.50	31.72	1.486
		Low	2 513.50	32.29	1.694
	256QAM	Middle	2 583.00	31.70	1.479
		High	2 672.50	31.72	1.486
		Low	2 513.50	31.82	1.521
Port 26	QPSK	Middle	2 583.00	31.74	1.493
		High	2 672.50	31.54	1.426
		Low	2 513.50	31.93	1.560
	16QAM	Middle	2 583.00	31.85	1.531
		High	2 672.50	31.60	1.445
		Low	2 513.50	31.82	1.521

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 513.50	31.98	1.578
		Middle	2 583.00	32.08	1.614
		High	2 672.50	31.65	1.462
	256QAM	Low	2 513.50	31.81	1.517
		Middle	2 583.00	32.02	1.592
		High	2 672.50	31.70	1.479
Port 27	QPSK	Low	2 513.50	31.89	1.545
		Middle	2 583.00	31.67	1.469
		High	2 672.50	31.82	1.521
	16QAM	Low	2 513.50	32.06	1.607
		Middle	2 583.00	31.87	1.538
		High	2 672.50	32.07	1.611
	64QAM	Low	2 513.50	32.11	1.626
		Middle	2 583.00	31.85	1.531
		High	2 672.50	32.01	1.589
	256QAM	Low	2 513.50	32.00	1.585
		Middle	2 583.00	31.95	1.567
		High	2 672.50	32.15	1.641
Port 28	QPSK	Low	2 513.50	31.83	1.524
		Middle	2 583.00	31.97	1.574
		High	2 672.50	31.61	1.449
	16QAM	Low	2 513.50	32.17	1.648
		Middle	2 583.00	32.04	1.600
		High	2 672.50	31.99	1.581
	64QAM	Low	2 513.50	32.02	1.592
		Middle	2 583.00	32.11	1.626
		High	2 672.50	31.90	1.549
	256QAM	Low	2 513.50	32.12	1.629
		Middle	2 583.00	32.29	1.694
		High	2 672.50	31.82	1.521
Port 29	QPSK	Low	2 513.50	31.82	1.521
		Middle	2 583.00	31.90	1.549

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 672.50	31.86	1.535
		Low	2 513.50	31.85	1.531
		Middle	2 583.00	32.20	1.660
		High	2 672.50	31.98	1.578
	64QAM	Low	2 513.50	31.76	1.500
		Middle	2 583.00	32.16	1.644
		High	2 672.50	31.92	1.556
	256QAM	Low	2 513.50	32.04	1.600
		Middle	2 583.00	32.10	1.622
		High	2 672.50	31.87	1.538
Port 30	QPSK	Low	2 513.50	31.75	1.496
		Middle	2 583.00	32.50	1.778
		High	2 672.50	31.99	1.581
	16QAM	Low	2 513.50	31.93	1.560
		Middle	2 583.00	32.23	1.671
		High	2 672.50	32.01	1.589
	64QAM	Low	2 513.50	32.00	1.585
		Middle	2 583.00	32.31	1.702
		High	2 672.50	32.05	1.603
	256QAM	Low	2 513.50	32.17	1.648
		Middle	2 583.00	32.26	1.683
		High	2 672.50	32.00	1.585
Port 31	QPSK	Low	2 513.50	32.02	1.592
		Middle	2 583.00	32.32	1.706
		High	2 672.50	32.32	1.706
	16QAM	Low	2 513.50	32.05	1.603
		Middle	2 583.00	32.39	1.734
		High	2 672.50	32.59	1.816
	64QAM	Low	2 513.50	32.07	1.611
		Middle	2 583.00	32.37	1.726
		High	2 672.50	32.33	1.710
	256QAM	Low	2 513.50	32.19	1.656

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 32		Middle	2 583.00	32.40	1.738
		High	2 672.50	32.34	1.714
		Low	2 513.50	32.10	1.622
	QPSK	Middle	2 583.00	32.07	1.611
		High	2 672.50	31.34	1.361
		Low	2 513.50	32.21	1.663
	16QAM	Middle	2 583.00	32.12	1.629
		High	2 672.50	32.05	1.603
		Low	2 513.50	31.75	1.496
	64QAM	Middle	2 583.00	32.27	1.687
		High	2 672.50	32.40	1.738
		Low	2 513.50	32.06	1.607
	256QAM	Middle	2 583.00	31.95	1.567
		High	2 672.50	31.87	1.538
		Low	2 513.50	32.10	1.622
Port 33	QPSK	Middle	2 583.00	32.11	1.626
		High	2 672.50	31.83	1.524
		Low	2 513.50	31.83	1.524
	16QAM	Middle	2 583.00	32.03	1.596
		High	2 672.50	32.20	1.660
		Low	2 513.50	32.20	1.660
	64QAM	Middle	2 583.00	32.27	1.687
		High	2 672.50	32.02	1.592
		Low	2 513.50	31.87	1.538
	256QAM	Middle	2 583.00	32.05	1.603
		High	2 672.50	31.86	1.535
		Low	2 513.50	32.35	1.718
Port 34	QPSK	Middle	2 583.00	31.98	1.578
		High	2 672.50	31.55	1.429
		Low	2 513.50	32.27	1.687
	16QAM	Middle	2 583.00	32.10	1.622
		High	2 672.50	32.04	1.600
		Low	2 513.50	32.35	1.718

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 513.50	32.59	1.816
		Middle	2 583.00	32.14	1.637
		High	2 672.50	31.87	1.538
	256QAM	Low	2 513.50	32.19	1.656
		Middle	2 583.00	32.01	1.589
		High	2 672.50	31.90	1.549
Port 35	QPSK	Low	2 513.50	32.15	1.641
		Middle	2 583.00	31.91	1.552
		High	2 672.50	31.72	1.486
	16QAM	Low	2 513.50	31.81	1.517
		Middle	2 583.00	32.10	1.622
		High	2 672.50	32.14	1.637
	64QAM	Low	2 513.50	32.39	1.734
		Middle	2 583.00	32.36	1.722
		High	2 672.50	32.53	1.791
	256QAM	Low	2 513.50	32.29	1.694
		Middle	2 583.00	32.26	1.683
		High	2 672.50	32.41	1.742
Port 36	QPSK	Low	2 513.50	31.96	1.570
		Middle	2 583.00	31.80	1.514
		High	2 672.50	31.79	1.510
	16QAM	Low	2 513.50	32.20	1.660
		Middle	2 583.00	32.07	1.611
		High	2 672.50	31.84	1.528
	64QAM	Low	2 513.50	32.00	1.585
		Middle	2 583.00	32.10	1.622
		High	2 672.50	32.35	1.718
	256QAM	Low	2 513.50	31.84	1.528
		Middle	2 583.00	31.91	1.552
		High	2 672.50	32.11	1.626
Port 37	QPSK	Low	2 513.50	31.94	1.563
		Middle	2 583.00	31.56	1.432

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 672.50	31.75	1.496
		Low	2 513.50	32.02	1.592
		Middle	2 583.00	32.17	1.648
		High	2 672.50	31.80	1.514
	64QAM	Low	2 513.50	32.13	1.633
		Middle	2 583.00	31.92	1.556
		High	2 672.50	32.19	1.656
	256QAM	Low	2 513.50	32.16	1.644
		Middle	2 583.00	31.90	1.549
		High	2 672.50	31.98	1.578
Port 38	QPSK	Low	2 513.50	31.99	1.581
		Middle	2 583.00	31.70	1.479
		High	2 672.50	32.45	1.758
	16QAM	Low	2 513.50	32.51	1.782
		Middle	2 583.00	31.92	1.556
		High	2 672.50	32.26	1.683
	64QAM	Low	2 513.50	31.94	1.563
		Middle	2 583.00	31.82	1.521
		High	2 672.50	32.23	1.671
	256QAM	Low	2 513.50	32.10	1.622
		Middle	2 583.00	31.96	1.570
		High	2 672.50	32.14	1.637
Port 39	QPSK	Low	2 513.50	32.01	1.589
		Middle	2 583.00	31.81	1.517
		High	2 672.50	31.73	1.489
	16QAM	Low	2 513.50	32.11	1.626
		Middle	2 583.00	32.13	1.633
		High	2 672.50	31.87	1.538
	64QAM	Low	2 513.50	32.06	1.607
		Middle	2 583.00	31.87	1.538
		High	2 672.50	32.04	1.600
	256QAM	Low	2 513.50	31.94	1.563

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 40		Middle	2 583.00	32.02	1.592
		High	2 672.50	31.97	1.574
		Low	2 513.50	31.89	1.545
	QPSK	Middle	2 583.00	31.98	1.578
		High	2 672.50	31.79	1.510
		Low	2 513.50	31.99	1.581
	16QAM	Middle	2 583.00	31.77	1.503
		High	2 672.50	32.11	1.626
		Low	2 513.50	31.84	1.528
	64QAM	Middle	2 583.00	31.76	1.500
		High	2 672.50	31.92	1.556
		Low	2 513.50	31.77	1.503
	256QAM	Middle	2 583.00	31.83	1.524
		High	2 672.50	32.12	1.629
		Low	2 513.50	31.85	1.531
Port 41	QPSK	Middle	2 583.00	32.14	1.637
		High	2 672.50	31.80	1.514
		Low	2 513.50	31.95	1.567
	16QAM	Middle	2 583.00	32.02	1.592
		High	2 672.50	31.88	1.542
		Low	2 513.50	31.94	1.563
	64QAM	Middle	2 583.00	32.03	1.596
		High	2 672.50	31.73	1.489
		Low	2 513.50	31.93	1.560
	256QAM	Middle	2 583.00	32.24	1.675
		High	2 672.50	31.98	1.578
		Low	2 513.50	32.01	1.589
Port 42	QPSK	Middle	2 583.00	31.87	1.538
		High	2 672.50	31.59	1.442
		Low	2 513.50	31.95	1.567
	16QAM	Middle	2 583.00	31.75	1.496
		High	2 672.50	31.79	1.510
		Low	2 513.50	31.87	1.538

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 513.50	31.75	1.496
		Middle	2 583.00	32.27	1.687
		High	2 672.50	31.89	1.545
	256QAM	Low	2 513.50	31.83	1.524
		Middle	2 583.00	32.10	1.622
		High	2 672.50	31.91	1.552
Port 43	QPSK	Low	2 513.50	32.10	1.622
		Middle	2 583.00	31.76	1.500
		High	2 672.50	31.66	1.466
	16QAM	Low	2 513.50	32.10	1.622
		Middle	2 583.00	32.31	1.702
		High	2 672.50	31.88	1.542
	64QAM	Low	2 513.50	32.02	1.592
		Middle	2 583.00	32.17	1.648
		High	2 672.50	31.97	1.574
	256QAM	Low	2 513.50	31.86	1.535
		Middle	2 583.00	31.91	1.552
		High	2 672.50	32.02	1.592
Port 44	QPSK	Low	2 513.50	31.76	1.500
		Middle	2 583.00	31.39	1.377
		High	2 672.50	31.63	1.455
	16QAM	Low	2 513.50	31.56	1.432
		Middle	2 583.00	31.60	1.445
		High	2 672.50	31.80	1.514
	64QAM	Low	2 513.50	32.15	1.641
		Middle	2 583.00	31.46	1.400
		High	2 672.50	32.10	1.622
	256QAM	Low	2 513.50	31.96	1.570
		Middle	2 583.00	31.50	1.413
		High	2 672.50	31.83	1.524
Port 45	QPSK	Low	2 513.50	31.98	1.578
		Middle	2 583.00	31.48	1.406

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 672.50	31.98	1.578
		Low	2 513.50	31.81	1.517
		Middle	2 583.00	31.96	1.570
		High	2 672.50	31.76	1.500
	64QAM	Low	2 513.50	31.90	1.549
		Middle	2 583.00	31.81	1.517
		High	2 672.50	32.11	1.626
	256QAM	Low	2 513.50	31.74	1.493
		Middle	2 583.00	31.57	1.435
		High	2 672.50	31.94	1.563
Port 46	QPSK	Low	2 513.50	31.97	1.574
		Middle	2 583.00	31.70	1.479
		High	2 672.50	31.57	1.435
	16QAM	Low	2 513.50	31.81	1.517
		Middle	2 583.00	31.73	1.489
		High	2 672.50	31.73	1.489
	64QAM	Low	2 513.50	32.30	1.698
		Middle	2 583.00	32.29	1.694
		High	2 672.50	32.03	1.596
	256QAM	Low	2 513.50	31.99	1.581
		Middle	2 583.00	31.76	1.500
		High	2 672.50	31.60	1.445
Port 47	QPSK	Low	2 513.50	32.13	1.633
		Middle	2 583.00	31.71	1.483
		High	2 672.50	31.51	1.416
	16QAM	Low	2 513.50	31.95	1.567
		Middle	2 583.00	31.77	1.503
		High	2 672.50	31.63	1.455
	64QAM	Low	2 513.50	32.04	1.600
		Middle	2 583.00	31.96	1.570
		High	2 672.50	32.23	1.671
	256QAM	Low	2 513.50	31.75	1.496

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 48		Middle	2 583.00	31.59	1.442
		High	2 672.50	31.74	1.493
		Low	2 513.50	32.10	1.622
	QPSK	Middle	2 583.00	31.73	1.489
		High	2 672.50	32.09	1.618
		Low	2 513.50	32.14	1.637
	16QAM	Middle	2 583.00	31.99	1.581
		High	2 672.50	31.97	1.574
		Low	2 513.50	31.97	1.574
	64QAM	Middle	2 583.00	32.01	1.589
		High	2 672.50	32.28	1.690
		Low	2 513.50	31.78	1.507
	256QAM	Middle	2 583.00	31.60	1.445
		High	2 672.50	31.88	1.542
		Low	2 513.50	31.54	1.426
Port 49	QPSK	Middle	2 583.00	31.83	1.524
		High	2 672.50	31.66	1.466
		Low	2 513.50	32.02	1.592
	16QAM	Middle	2 583.00	31.85	1.531
		High	2 672.50	32.10	1.622
		Low	2 513.50	31.75	1.496
	64QAM	Middle	2 583.00	31.82	1.521
		High	2 672.50	32.03	1.596
		Low	2 513.50	31.99	1.581
	256QAM	Middle	2 583.00	31.71	1.483
		High	2 672.50	31.88	1.542
		Low	2 513.50	31.32	1.355
Port 50	QPSK	Middle	2 583.00	31.78	1.507
		High	2 672.50	32.14	1.637
		Low	2 513.50	31.87	1.538
	16QAM	Middle	2 583.00	31.90	1.549
		High	2 672.50	31.96	1.570
		Low	2 513.50	31.32	1.355

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 513.50	31.75	1.496
		Middle	2 583.00	31.73	1.489
		High	2 672.50	32.31	1.702
	256QAM	Low	2 513.50	32.02	1.592
		Middle	2 583.00	31.87	1.538
		High	2 672.50	31.91	1.552
Port 51	QPSK	Low	2 513.50	31.88	1.542
		Middle	2 583.00	31.43	1.390
		High	2 672.50	31.90	1.549
	16QAM	Low	2 513.50	31.89	1.545
		Middle	2 583.00	31.93	1.560
		High	2 672.50	32.04	1.600
	64QAM	Low	2 513.50	31.57	1.435
		Middle	2 583.00	31.63	1.455
		High	2 672.50	32.01	1.589
	256QAM	Low	2 513.50	31.95	1.567
		Middle	2 583.00	31.64	1.459
		High	2 672.50	31.62	1.452
Port 52	QPSK	Low	2 513.50	31.89	1.545
		Middle	2 583.00	31.43	1.390
		High	2 672.50	31.66	1.466
	16QAM	Low	2 513.50	31.88	1.542
		Middle	2 583.00	31.89	1.545
		High	2 672.50	32.34	1.714
	64QAM	Low	2 513.50	32.05	1.603
		Middle	2 583.00	32.15	1.641
		High	2 672.50	32.24	1.675
	256QAM	Low	2 513.50	31.93	1.560
		Middle	2 583.00	31.45	1.396
		High	2 672.50	32.00	1.585
Port 53	QPSK	Low	2 513.50	31.94	1.563
		Middle	2 583.00	31.40	1.380

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 672.50	31.84	1.528
		Low	2 513.50	31.84	1.528
		Middle	2 583.00	31.80	1.514
		High	2 672.50	32.23	1.671
	64QAM	Low	2 513.50	32.17	1.648
		Middle	2 583.00	31.79	1.510
		High	2 672.50	32.04	1.600
	256QAM	Low	2 513.50	31.99	1.581
		Middle	2 583.00	31.14	1.300
		High	2 672.50	31.96	1.570
Port 54	QPSK	Low	2 513.50	31.54	1.426
		Middle	2 583.00	31.42	1.387
		High	2 672.50	31.68	1.472
	16QAM	Low	2 513.50	31.77	1.503
		Middle	2 583.00	31.71	1.483
		High	2 672.50	31.75	1.496
	64QAM	Low	2 513.50	31.83	1.524
		Middle	2 583.00	32.10	1.622
		High	2 672.50	32.23	1.671
	256QAM	Low	2 513.50	31.90	1.549
		Middle	2 583.00	31.55	1.429
		High	2 672.50	32.00	1.585
Port 55	QPSK	Low	2 513.50	31.67	1.469
		Middle	2 583.00	31.91	1.552
		High	2 672.50	31.43	1.390
	16QAM	Low	2 513.50	31.78	1.507
		Middle	2 583.00	31.73	1.489
		High	2 672.50	31.48	1.406
	64QAM	Low	2 513.50	31.85	1.531
		Middle	2 583.00	32.07	1.611
		High	2 672.50	31.89	1.545
	256QAM	Low	2 513.50	31.44	1.393

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 56		Middle	2 583.00	31.62	1.452
		High	2 672.50	31.91	1.552
		Low	2 513.50	31.81	1.517
	QPSK	Middle	2 583.00	31.14	1.300
		High	2 672.50	31.61	1.449
		Low	2 513.50	31.82	1.521
	16QAM	Middle	2 583.00	31.61	1.449
		High	2 672.50	31.53	1.422
		Low	2 513.50	31.70	1.479
	64QAM	Middle	2 583.00	31.27	1.340
		High	2 672.50	31.71	1.483
		Low	2 513.50	31.95	1.567
	256QAM	Middle	2 583.00	31.19	1.315
		High	2 672.50	31.78	1.507
		Low	2 513.50	31.65	1.462
Port 57	QPSK	Middle	2 583.00	31.24	1.330
		High	2 672.50	31.49	1.409
		Low	2 513.50	31.70	1.479
	16QAM	Middle	2 583.00	31.50	1.413
		High	2 672.50	31.65	1.462
		Low	2 513.50	31.65	1.462
	64QAM	Middle	2 583.00	31.55	1.429
		High	2 672.50	31.73	1.489
		Low	2 513.50	31.69	1.476
	256QAM	Middle	2 583.00	31.23	1.327
		High	2 672.50	31.74	1.493
		Low	2 513.50	31.84	1.528
Port 58	QPSK	Middle	2 583.00	30.97	1.250
		High	2 672.50	31.49	1.409
		Low	2 513.50	31.68	1.472
	16QAM	Middle	2 583.00	31.48	1.406
		High	2 672.50	31.91	1.552
		Low	2 513.50	31.84	1.528

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 513.50	31.49	1.409
		Middle	2 583.00	31.11	1.291
		High	2 672.50	31.71	1.483
	256QAM	Low	2 513.50	31.69	1.476
		Middle	2 583.00	31.18	1.312
		High	2 672.50	31.72	1.486
Port 59	QPSK	Low	2 513.50	32.01	1.589
		Middle	2 583.00	31.32	1.355
		High	2 672.50	31.49	1.409
	16QAM	Low	2 513.50	31.56	1.432
		Middle	2 583.00	31.85	1.531
		High	2 672.50	31.89	1.545
	64QAM	Low	2 513.50	31.57	1.435
		Middle	2 583.00	31.54	1.426
		High	2 672.50	32.18	1.652
	256QAM	Low	2 513.50	31.75	1.496
		Middle	2 583.00	31.24	1.330
		High	2 672.50	31.38	1.374
Port 60	QPSK	Low	2 513.50	31.78	1.507
		Middle	2 583.00	31.76	1.500
		High	2 672.50	31.61	1.449
	16QAM	Low	2 513.50	31.85	1.531
		Middle	2 583.00	31.55	1.429
		High	2 672.50	31.98	1.578
	64QAM	Low	2 513.50	31.89	1.545
		Middle	2 583.00	31.60	1.445
		High	2 672.50	31.87	1.538
	256QAM	Low	2 513.50	31.41	1.384
		Middle	2 583.00	31.72	1.486
		High	2 672.50	31.85	1.531
Port 61	QPSK	Low	2 513.50	31.59	1.442

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
		Middle	2 583.00	31.62	1.452
		High	2 672.50	31.77	1.503
		Low	2 513.50	31.58	1.439
	16QAM	Middle	2 583.00	31.61	1.449
		High	2 672.50	31.88	1.542
		Low	2 513.50	31.91	1.552
	64QAM	Middle	2 583.00	31.67	1.469
		High	2 672.50	31.74	1.493
		Low	2 513.50	31.97	1.574
	256QAM	Middle	2 583.00	31.77	1.503
		High	2 672.50	32.10	1.622
		Low	2 513.50	31.78	1.507
Port 62	QPSK	Middle	2 583.00	31.27	1.340
		High	2 672.50	31.62	1.452
		Low	2 513.50	31.79	1.510
	16QAM	Middle	2 583.00	31.63	1.455
		High	2 672.50	31.72	1.486
		Low	2 513.50	31.76	1.500
	64QAM	Middle	2 583.00	31.77	1.503
		High	2 672.50	31.66	1.466
		Low	2 513.50	31.58	1.439
	256QAM	Middle	2 583.00	31.71	1.483
		High	2 672.50	31.71	1.483
		Low	2 513.50	31.72	1.486
Port 63	QPSK	Middle	2 583.00	31.53	1.422
		High	2 672.50	31.40	1.380
		Low	2 513.50	31.82	1.521
	16QAM	Middle	2 583.00	31.60	1.445
		High	2 672.50	31.64	1.459
		Low	2 513.50	31.83	1.524
	64QAM	Middle	2 583.00	31.33	1.358
		High	2 672.50	31.85	1.531
		Low	2 513.50	31.83	1.524

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	256QAM	Low	2 513.50	31.21	1.321
		Middle	2 583.00	31.43	1.390
		High	2 672.50	31.17	1.309

* Because the results corrected by duty cycle are recorded, they do not match the test plot.

* This test report only contains the worst case plot data for each port and modulation.

Sum data of all port

Modulation	Channel	Frequency (MHz)	Summed Output Power (W)
QPSK	Low	2 513.50	97.809
	Middle	2 583.00	95.386
	High	2 672.50	94.951
16QAM	Low	2 513.50	99.386
	Middle	2 583.00	99.747
	High	2 672.50	99.886
64QAM	Low	2 513.50	99.167
	Middle	2 583.00	99.499
	High	2 672.50	101.004
256QAM	Low	2 513.50	98.953
	Middle	2 583.00	97.006
	High	2 672.50	99.165

20 MHz + 20 MHz + 20 MHz Bandwidth / 3 Carriers

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 0	QPSK	Low	2 526.00	33.93	2.472
		Middle	2 593.00	34.25	2.661
		High	2 660.00	34.05	2.541
	16QAM	Low	2 526.00	34.39	2.748
		Middle	2 593.00	34.16	2.606
		High	2 660.00	34.03	2.529
	64QAM	Low	2 526.00	34.09	2.564
		Middle	2 593.00	34.32	2.704
		High	2 660.00	33.98	2.500
	256QAM	Low	2 526.00	34.39	2.748
		Middle	2 593.00	34.25	2.661
		High	2 660.00	34.19	2.624
Port 1	QPSK	Low	2 526.00	33.90	2.455
		Middle	2 593.00	34.05	2.541
		High	2 660.00	33.76	2.377
	16QAM	Low	2 526.00	33.97	2.495
		Middle	2 593.00	34.17	2.612
		High	2 660.00	34.11	2.576
	64QAM	Low	2 526.00	34.42	2.767
		Middle	2 593.00	34.38	2.742
		High	2 660.00	34.05	2.541
	256QAM	Low	2 526.00	34.24	2.655
		Middle	2 593.00	34.18	2.618
		High	2 660.00	34.16	2.606
Port 2	QPSK	Low	2 526.00	33.84	2.421
		Middle	2 593.00	34.28	2.679
		High	2 660.00	33.91	2.460
	16QAM	Low	2 526.00	33.94	2.477
		Middle	2 593.00	34.28	2.679
		High	2 660.00	33.97	2.495

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 526.00	34.27	2.673
		Middle	2 593.00	34.42	2.767
		High	2 660.00	34.01	2.518
	256QAM	Low	2 526.00	34.23	2.649
		Middle	2 593.00	34.31	2.698
		High	2 660.00	34.03	2.529
Port 3	QPSK	Low	2 526.00	34.07	2.553
		Middle	2 593.00	34.15	2.600
		High	2 660.00	33.98	2.500
	16QAM	Low	2 526.00	33.98	2.500
		Middle	2 593.00	34.49	2.812
		High	2 660.00	34.00	2.512
	64QAM	Low	2 526.00	34.00	2.512
		Middle	2 593.00	34.18	2.618
		High	2 660.00	34.03	2.529
	256QAM	Low	2 526.00	34.33	2.710
		Middle	2 593.00	34.30	2.692
		High	2 660.00	34.05	2.541
Port 4	QPSK	Low	2 526.00	33.88	2.443
		Middle	2 593.00	34.02	2.523
		High	2 660.00	33.74	2.366
	16QAM	Low	2 526.00	34.06	2.547
		Middle	2 593.00	34.13	2.588
		High	2 660.00	33.96	2.489
	64QAM	Low	2 526.00	33.97	2.495
		Middle	2 593.00	34.31	2.698
		High	2 660.00	33.85	2.427
	256QAM	Low	2 526.00	33.88	2.443
		Middle	2 593.00	34.22	2.642
		High	2 660.00	34.19	2.624
Port 5	QPSK	Low	2 526.00	33.79	2.393
		Middle	2 593.00	33.79	2.393

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 660.00	33.74	2.366
		Low	2 526.00	34.06	2.547
		Middle	2 593.00	34.07	2.553
		High	2 660.00	34.25	2.661
	64QAM	Low	2 526.00	34.22	2.642
		Middle	2 593.00	34.18	2.618
		High	2 660.00	34.38	2.742
	256QAM	Low	2 526.00	34.05	2.541
		Middle	2 593.00	33.99	2.506
		High	2 660.00	33.87	2.438
Port 6	QPSK	Low	2 526.00	33.77	2.382
		Middle	2 593.00	33.98	2.500
		High	2 660.00	34.12	2.582
	16QAM	Low	2 526.00	34.26	2.667
		Middle	2 593.00	34.11	2.576
		High	2 660.00	33.95	2.483
	64QAM	Low	2 526.00	33.97	2.495
		Middle	2 593.00	34.14	2.594
		High	2 660.00	33.94	2.477
	256QAM	Low	2 526.00	34.01	2.518
		Middle	2 593.00	34.14	2.594
		High	2 660.00	34.09	2.564
Port 7	QPSK	Low	2 526.00	33.99	2.506
		Middle	2 593.00	33.83	2.415
		High	2 660.00	33.59	2.286
	16QAM	Low	2 526.00	34.13	2.588
		Middle	2 593.00	34.32	2.704
		High	2 660.00	33.87	2.438
	64QAM	Low	2 526.00	34.19	2.624
		Middle	2 593.00	34.35	2.723
		High	2 660.00	33.90	2.455
	256QAM	Low	2 526.00	34.10	2.570

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 8		Middle	2 593.00	34.17	2.612
		High	2 660.00	33.99	2.506
		Low	2 526.00	34.25	2.661
	QPSK	Middle	2 593.00	33.98	2.500
		High	2 660.00	33.81	2.404
		Low	2 526.00	34.33	2.710
	16QAM	Middle	2 593.00	34.10	2.570
		High	2 660.00	34.16	2.606
		Low	2 526.00	34.13	2.588
	64QAM	Middle	2 593.00	34.29	2.685
		High	2 660.00	34.02	2.523
		Low	2 526.00	34.03	2.529
	256QAM	Middle	2 593.00	34.31	2.698
		High	2 660.00	33.98	2.500
		Low	2 526.00	34.04	2.535
Port 9	QPSK	Middle	2 593.00	34.19	2.624
		High	2 660.00	34.05	2.541
		Low	2 526.00	34.00	2.512
	16QAM	Middle	2 593.00	33.94	2.477
		High	2 660.00	34.17	2.612
		Low	2 526.00	34.23	2.649
	64QAM	Middle	2 593.00	34.36	2.729
		High	2 660.00	34.05	2.541
		Low	2 526.00	33.92	2.466
	256QAM	Middle	2 593.00	34.05	2.541
		High	2 660.00	34.35	2.723
		Low	2 526.00	34.09	2.564
Port 10	QPSK	Middle	2 593.00	34.29	2.685
		High	2 660.00	33.91	2.460
		Low	2 526.00	34.20	2.630
	16QAM	Middle	2 593.00	34.27	2.673
		High	2 660.00	33.99	2.506
		Low	2 526.00	34.09	2.564

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 526.00	33.93	2.472
		Middle	2 593.00	34.23	2.649
		High	2 660.00	34.06	2.547
	256QAM	Low	2 526.00	34.04	2.535
		Middle	2 593.00	34.34	2.716
		High	2 660.00	34.00	2.512
Port 11	QPSK	Low	2 526.00	34.07	2.553
		Middle	2 593.00	34.03	2.529
		High	2 660.00	34.00	2.512
	16QAM	Low	2 526.00	34.28	2.679
		Middle	2 593.00	34.04	2.535
		High	2 660.00	34.05	2.541
	64QAM	Low	2 526.00	34.13	2.588
		Middle	2 593.00	34.28	2.679
		High	2 660.00	34.06	2.547
	256QAM	Low	2 526.00	34.27	2.673
		Middle	2 593.00	34.32	2.704
		High	2 660.00	34.13	2.588
Port 12	QPSK	Low	2 526.00	34.18	2.618
		Middle	2 593.00	34.28	2.679
		High	2 660.00	34.06	2.547
	16QAM	Low	2 526.00	34.18	2.618
		Middle	2 593.00	34.42	2.767
		High	2 660.00	34.05	2.541
	64QAM	Low	2 526.00	34.16	2.606
		Middle	2 593.00	34.25	2.661
		High	2 660.00	34.21	2.636
	256QAM	Low	2 526.00	34.16	2.606
		Middle	2 593.00	34.20	2.630
		High	2 660.00	33.96	2.489
Port 13	QPSK	Low	2 526.00	33.78	2.388
		Middle	2 593.00	34.01	2.518

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 660.00	34.08	2.559
		Low	2 526.00	34.26	2.667
		Middle	2 593.00	34.12	2.582
		High	2 660.00	34.10	2.570
	64QAM	Low	2 526.00	34.12	2.582
		Middle	2 593.00	34.13	2.588
		High	2 660.00	34.11	2.576
	256QAM	Low	2 526.00	34.19	2.624
		Middle	2 593.00	34.03	2.529
		High	2 660.00	34.05	2.541
Port 14	QPSK	Low	2 526.00	34.21	2.636
		Middle	2 593.00	34.07	2.553
		High	2 660.00	33.88	2.443
	16QAM	Low	2 526.00	34.05	2.541
		Middle	2 593.00	34.34	2.716
		High	2 660.00	33.96	2.489
	64QAM	Low	2 526.00	34.17	2.612
		Middle	2 593.00	34.33	2.710
		High	2 660.00	33.91	2.460
	256QAM	Low	2 526.00	34.14	2.594
		Middle	2 593.00	34.48	2.805
		High	2 660.00	34.28	2.679
Port 15	QPSK	Low	2 526.00	34.20	2.630
		Middle	2 593.00	34.14	2.594
		High	2 660.00	33.85	2.427
	16QAM	Low	2 526.00	34.20	2.630
		Middle	2 593.00	34.49	2.812
		High	2 660.00	34.04	2.535
	64QAM	Low	2 526.00	34.33	2.710
		Middle	2 593.00	34.25	2.661
		High	2 660.00	34.03	2.529
	256QAM	Low	2 526.00	34.16	2.606

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 16		Middle	2 593.00	34.31	2.698
		High	2 660.00	34.08	2.559
		Low	2 526.00	34.03	2.529
	QPSK	Middle	2 593.00	34.38	2.742
		High	2 660.00	34.11	2.576
		Low	2 526.00	34.35	2.723
	16QAM	Middle	2 593.00	34.61	2.891
		High	2 660.00	34.21	2.636
		Low	2 526.00	34.40	2.754
	64QAM	Middle	2 593.00	34.52	2.831
		High	2 660.00	34.11	2.576
		Low	2 526.00	34.45	2.786
	256QAM	Middle	2 593.00	34.22	2.642
		High	2 660.00	34.42	2.767
		Low	2 526.00	34.22	2.642
Port 17	QPSK	Middle	2 593.00	34.25	2.661
		High	2 660.00	33.98	2.500
		Low	2 526.00	34.46	2.793
	16QAM	Middle	2 593.00	34.49	2.812
		High	2 660.00	34.17	2.612
		Low	2 526.00	34.45	2.786
	64QAM	Middle	2 593.00	34.60	2.884
		High	2 660.00	34.46	2.793
		Low	2 526.00	34.27	2.673
	256QAM	Middle	2 593.00	34.34	2.716
		High	2 660.00	34.50	2.818
		Low	2 526.00	34.19	2.624
Port 18	QPSK	Middle	2 593.00	34.51	2.825
		High	2 660.00	34.22	2.642
		Low	2 526.00	34.11	2.576
	16QAM	Middle	2 593.00	34.34	2.716
		High	2 660.00	34.09	2.564
		Low	2 526.00	34.19	2.624

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 526.00	34.44	2.780
		Middle	2 593.00	34.35	2.723
		High	2 660.00	34.06	2.547
	256QAM	Low	2 526.00	34.25	2.661
		Middle	2 593.00	34.55	2.851
		High	2 660.00	34.13	2.588
Port 19	QPSK	Low	2 526.00	33.93	2.472
		Middle	2 593.00	34.30	2.692
		High	2 660.00	34.04	2.535
	16QAM	Low	2 526.00	34.16	2.606
		Middle	2 593.00	34.16	2.606
		High	2 660.00	34.08	2.559
	64QAM	Low	2 526.00	34.59	2.877
		Middle	2 593.00	34.36	2.729
		High	2 660.00	34.19	2.624
	256QAM	Low	2 526.00	34.51	2.825
		Middle	2 593.00	34.29	2.685
		High	2 660.00	34.27	2.673
Port 20	QPSK	Low	2 526.00	34.44	2.780
		Middle	2 593.00	34.28	2.679
		High	2 660.00	34.12	2.582
	16QAM	Low	2 526.00	34.38	2.742
		Middle	2 593.00	34.41	2.761
		High	2 660.00	34.43	2.773
	64QAM	Low	2 526.00	34.37	2.735
		Middle	2 593.00	34.21	2.636
		High	2 660.00	34.46	2.793
	256QAM	Low	2 526.00	34.28	2.679
		Middle	2 593.00	34.29	2.685
		High	2 660.00	34.20	2.630
Port 21	QPSK	Low	2 526.00	34.31	2.698
		Middle	2 593.00	34.28	2.679

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 660.00	34.16	2.606
		Low	2 526.00	34.22	2.642
		Middle	2 593.00	34.35	2.723
		High	2 660.00	34.30	2.692
	64QAM	Low	2 526.00	34.24	2.655
		Middle	2 593.00	34.35	2.723
		High	2 660.00	34.02	2.523
	256QAM	Low	2 526.00	34.24	2.655
		Middle	2 593.00	34.33	2.710
		High	2 660.00	34.23	2.649
Port 22	QPSK	Low	2 526.00	34.16	2.606
		Middle	2 593.00	34.31	2.698
		High	2 660.00	33.91	2.460
	16QAM	Low	2 526.00	34.47	2.799
		Middle	2 593.00	34.32	2.704
		High	2 660.00	34.20	2.630
	64QAM	Low	2 526.00	34.54	2.844
		Middle	2 593.00	34.19	2.624
		High	2 660.00	34.47	2.799
	256QAM	Low	2 526.00	34.33	2.710
		Middle	2 593.00	34.35	2.723
		High	2 660.00	34.34	2.716
Port 23	QPSK	Low	2 526.00	34.14	2.594
		Middle	2 593.00	34.21	2.636
		High	2 660.00	34.19	2.624
	16QAM	Low	2 526.00	34.25	2.661
		Middle	2 593.00	34.52	2.831
		High	2 660.00	34.44	2.780
	64QAM	Low	2 526.00	34.43	2.773
		Middle	2 593.00	34.24	2.655
		High	2 660.00	34.20	2.630
	256QAM	Low	2 526.00	34.18	2.618

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 24		Middle	2 593.00	34.29	2.685
		High	2 660.00	34.27	2.673
		Low	2 526.00	34.26	2.667
	QPSK	Middle	2 593.00	34.27	2.673
		High	2 660.00	34.08	2.559
		Low	2 526.00	34.18	2.618
	16QAM	Middle	2 593.00	34.30	2.692
		High	2 660.00	34.17	2.612
		Low	2 526.00	34.59	2.877
	64QAM	Middle	2 593.00	34.45	2.786
		High	2 660.00	34.16	2.606
		Low	2 526.00	34.42	2.767
	256QAM	Middle	2 593.00	34.34	2.716
		High	2 660.00	34.20	2.630
		Low	2 526.00	34.10	2.570
Port 25	QPSK	Middle	2 593.00	34.07	2.553
		High	2 660.00	33.70	2.344
		Low	2 526.00	34.18	2.618
	16QAM	Middle	2 593.00	34.35	2.723
		High	2 660.00	34.02	2.523
		Low	2 526.00	34.32	2.704
	64QAM	Middle	2 593.00	34.20	2.630
		High	2 660.00	33.92	2.466
		Low	2 526.00	34.54	2.844
	256QAM	Middle	2 593.00	34.17	2.612
		High	2 660.00	33.95	2.483
		Low	2 526.00	34.14	2.594
Port 26	QPSK	Middle	2 593.00	34.00	2.512
		High	2 660.00	33.94	2.477
		Low	2 526.00	34.28	2.679
	16QAM	Middle	2 593.00	34.33	2.710
		High	2 660.00	34.20	2.630
		Low	2 526.00	34.14	2.594

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 526.00	34.37	2.735
		Middle	2 593.00	34.30	2.692
		High	2 660.00	34.19	2.624
	256QAM	Low	2 526.00	34.28	2.679
		Middle	2 593.00	34.22	2.642
		High	2 660.00	34.03	2.529
Port 27	QPSK	Low	2 526.00	34.22	2.642
		Middle	2 593.00	34.00	2.512
		High	2 660.00	34.20	2.630
	16QAM	Low	2 526.00	34.15	2.600
		Middle	2 593.00	34.53	2.838
		High	2 660.00	34.33	2.710
	64QAM	Low	2 526.00	34.36	2.729
		Middle	2 593.00	34.44	2.780
		High	2 660.00	34.27	2.673
	256QAM	Low	2 526.00	34.48	2.805
		Middle	2 593.00	34.41	2.761
		High	2 660.00	34.28	2.679
Port 28	QPSK	Low	2 526.00	34.21	2.636
		Middle	2 593.00	34.28	2.679
		High	2 660.00	34.28	2.679
	16QAM	Low	2 526.00	34.28	2.679
		Middle	2 593.00	34.59	2.877
		High	2 660.00	34.20	2.630
	64QAM	Low	2 526.00	34.20	2.630
		Middle	2 593.00	34.36	2.729
		High	2 660.00	34.31	2.698
	256QAM	Low	2 526.00	34.20	2.630
		Middle	2 593.00	34.44	2.780
		High	2 660.00	34.27	2.673
Port 29	QPSK	Low	2 526.00	34.18	2.618
		Middle	2 593.00	34.42	2.767

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 660.00	34.30	2.692
		Low	2 526.00	34.29	2.685
		Middle	2 593.00	34.37	2.735
		High	2 660.00	34.33	2.710
	64QAM	Low	2 526.00	34.35	2.723
		Middle	2 593.00	34.49	2.812
		High	2 660.00	34.02	2.523
	256QAM	Low	2 526.00	34.21	2.636
		Middle	2 593.00	34.21	2.636
		High	2 660.00	34.42	2.767
Port 30	QPSK	Low	2 526.00	34.26	2.667
		Middle	2 593.00	34.52	2.831
		High	2 660.00	34.10	2.570
	16QAM	Low	2 526.00	34.53	2.838
		Middle	2 593.00	34.00	2.512
		High	2 660.00	34.49	2.812
	64QAM	Low	2 526.00	34.22	2.642
		Middle	2 593.00	34.57	2.864
		High	2 660.00	34.21	2.636
	256QAM	Low	2 526.00	34.14	2.594
		Middle	2 593.00	34.67	2.931
		High	2 660.00	34.36	2.729
Port 31	QPSK	Low	2 526.00	34.66	2.924
		Middle	2 593.00	34.66	2.924
		High	2 660.00	34.61	2.891
	16QAM	Low	2 526.00	34.70	2.951
		Middle	2 593.00	34.77	2.999
		High	2 660.00	34.77	2.999
	64QAM	Low	2 526.00	34.82	3.034
		Middle	2 593.00	34.88	3.076
		High	2 660.00	34.28	2.679
	256QAM	Low	2 526.00	34.78	3.006

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 32		Middle	2 593.00	34.34	2.716
		High	2 660.00	34.84	3.048
		Low	2 526.00	34.25	2.661
	QPSK	Middle	2 593.00	34.30	2.692
		High	2 660.00	34.10	2.570
		Low	2 526.00	34.45	2.786
	16QAM	Middle	2 593.00	34.28	2.679
		High	2 660.00	34.34	2.716
		Low	2 526.00	34.35	2.723
	64QAM	Middle	2 593.00	34.29	2.685
		High	2 660.00	34.19	2.624
		Low	2 526.00	34.52	2.831
	256QAM	Middle	2 593.00	34.31	2.698
		High	2 660.00	34.24	2.655
		Low	2 526.00	34.29	2.685
Port 33	QPSK	Middle	2 593.00	34.19	2.624
		High	2 660.00	34.14	2.594
		Low	2 526.00	34.08	2.559
	16QAM	Middle	2 593.00	34.16	2.606
		High	2 660.00	34.43	2.773
		Low	2 526.00	34.17	2.612
	64QAM	Middle	2 593.00	34.54	2.844
		High	2 660.00	34.19	2.624
		Low	2 526.00	34.33	2.710
	256QAM	Middle	2 593.00	34.25	2.661
		High	2 660.00	34.27	2.673
		Low	2 526.00	34.36	2.729
Port 34	QPSK	Middle	2 593.00	34.10	2.570
		High	2 660.00	34.00	2.512
		Low	2 526.00	34.67	2.931
	16QAM	Middle	2 593.00	34.25	2.661
		High	2 660.00	34.27	2.673
		Low	2 526.00	34.36	2.729

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 526.00	34.57	2.864
		Middle	2 593.00	34.45	2.786
		High	2 660.00	34.39	2.748
	256QAM	Low	2 526.00	34.48	2.805
		Middle	2 593.00	34.36	2.729
		High	2 660.00	34.21	2.636
Port 35	QPSK	Low	2 526.00	34.22	2.642
		Middle	2 593.00	34.41	2.761
		High	2 660.00	34.07	2.553
	16QAM	Low	2 526.00	34.42	2.767
		Middle	2 593.00	34.31	2.698
		High	2 660.00	34.53	2.838
	64QAM	Low	2 526.00	34.45	2.786
		Middle	2 593.00	34.31	2.698
		High	2 660.00	34.44	2.780
	256QAM	Low	2 526.00	34.33	2.710
		Middle	2 593.00	34.50	2.818
		High	2 660.00	34.10	2.570
Port 36	QPSK	Low	2 526.00	34.44	2.780
		Middle	2 593.00	34.29	2.685
		High	2 660.00	34.19	2.624
	16QAM	Low	2 526.00	34.56	2.858
		Middle	2 593.00	34.39	2.748
		High	2 660.00	34.42	2.767
	64QAM	Low	2 526.00	34.56	2.858
		Middle	2 593.00	34.59	2.877
		High	2 660.00	34.54	2.844
	256QAM	Low	2 526.00	34.44	2.780
		Middle	2 593.00	34.49	2.812
		High	2 660.00	34.47	2.799
Port 37	QPSK	Low	2 526.00	34.48	2.805
		Middle	2 593.00	34.31	2.698

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 660.00	33.99	2.506
		Low	2 526.00	34.34	2.716
		Middle	2 593.00	34.44	2.780
		High	2 660.00	34.19	2.624
	64QAM	Low	2 526.00	34.61	2.891
		Middle	2 593.00	34.49	2.812
		High	2 660.00	34.19	2.624
	256QAM	Low	2 526.00	34.31	2.698
		Middle	2 593.00	34.71	2.958
		High	2 660.00	34.20	2.630
Port 38	QPSK	Low	2 526.00	34.74	2.979
		Middle	2 593.00	34.26	2.667
		High	2 660.00	34.47	2.799
	16QAM	Low	2 526.00	34.86	3.062
		Middle	2 593.00	34.40	2.754
		High	2 660.00	34.52	2.831
	64QAM	Low	2 526.00	34.61	2.891
		Middle	2 593.00	34.44	2.780
		High	2 660.00	34.37	2.735
	256QAM	Low	2 526.00	34.70	2.951
		Middle	2 593.00	34.37	2.735
		High	2 660.00	34.56	2.858
Port 39	QPSK	Low	2 526.00	34.38	2.742
		Middle	2 593.00	34.40	2.754
		High	2 660.00	34.10	2.570
	16QAM	Low	2 526.00	34.40	2.754
		Middle	2 593.00	34.28	2.679
		High	2 660.00	34.42	2.767
	64QAM	Low	2 526.00	34.74	2.979
		Middle	2 593.00	34.49	2.812
		High	2 660.00	34.62	2.897
	256QAM	Low	2 526.00	34.51	2.825

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 40		Middle	2 593.00	34.39	2.748
		High	2 660.00	34.34	2.716
		Low	2 526.00	34.21	2.636
	QPSK	Middle	2 593.00	34.10	2.570
		High	2 660.00	34.09	2.564
		Low	2 526.00	34.08	2.559
	16QAM	Middle	2 593.00	34.26	2.667
		High	2 660.00	34.23	2.649
		Low	2 526.00	34.43	2.773
	64QAM	Middle	2 593.00	34.29	2.685
		High	2 660.00	34.26	2.667
		Low	2 526.00	34.23	2.649
	256QAM	Middle	2 593.00	34.46	2.793
		High	2 660.00	34.02	2.523
		Low	2 526.00	33.92	2.466
Port 41	QPSK	Middle	2 593.00	34.06	2.547
		High	2 660.00	34.10	2.570
		Low	2 526.00	34.59	2.877
	16QAM	Middle	2 593.00	34.33	2.710
		High	2 660.00	34.12	2.582
		Low	2 526.00	34.31	2.698
	64QAM	Middle	2 593.00	34.24	2.655
		High	2 660.00	34.04	2.535
		Low	2 526.00	34.18	2.618
	256QAM	Middle	2 593.00	34.38	2.742
		High	2 660.00	34.09	2.564
		Low	2 526.00	34.05	2.541
Port 42	QPSK	Middle	2 593.00	33.93	2.472
		High	2 660.00	33.97	2.495
		Low	2 526.00	34.30	2.692
	16QAM	Middle	2 593.00	34.18	2.618
		High	2 660.00	34.03	2.529
		Low	2 526.00	34.05	2.541

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 526.00	34.36	2.729
		Middle	2 593.00	34.19	2.624
		High	2 660.00	34.19	2.624
	256QAM	Low	2 526.00	34.37	2.735
		Middle	2 593.00	34.19	2.624
		High	2 660.00	34.21	2.636
Port 43	QPSK	Low	2 526.00	34.06	2.547
		Middle	2 593.00	34.15	2.600
		High	2 660.00	33.94	2.477
	16QAM	Low	2 526.00	34.48	2.805
		Middle	2 593.00	34.29	2.685
		High	2 660.00	34.13	2.588
	64QAM	Low	2 526.00	34.26	2.667
		Middle	2 593.00	34.42	2.767
		High	2 660.00	34.24	2.655
	256QAM	Low	2 526.00	34.18	2.618
		Middle	2 593.00	34.25	2.661
		High	2 660.00	34.30	2.692
Port 44	QPSK	Low	2 526.00	34.05	2.541
		Middle	2 593.00	33.88	2.443
		High	2 660.00	34.13	2.588
	16QAM	Low	2 526.00	34.18	2.618
		Middle	2 593.00	34.05	2.541
		High	2 660.00	34.15	2.600
	64QAM	Low	2 526.00	34.13	2.588
		Middle	2 593.00	34.20	2.630
		High	2 660.00	34.08	2.559
	256QAM	Low	2 526.00	34.15	2.600
		Middle	2 593.00	34.18	2.618
		High	2 660.00	34.02	2.523
Port 45	QPSK	Low	2 526.00	34.26	2.667
		Middle	2 593.00	34.04	2.535

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 660.00	33.83	2.415
		Low	2 526.00	34.22	2.642
		Middle	2 593.00	34.32	2.704
		High	2 660.00	34.16	2.606
	64QAM	Low	2 526.00	34.20	2.630
		Middle	2 593.00	34.30	2.692
		High	2 660.00	34.07	2.553
	256QAM	Low	2 526.00	34.16	2.606
		Middle	2 593.00	34.40	2.754
		High	2 660.00	34.09	2.564
Port 46	QPSK	Low	2 526.00	33.85	2.427
		Middle	2 593.00	34.14	2.594
		High	2 660.00	33.86	2.432
	16QAM	Low	2 526.00	34.30	2.692
		Middle	2 593.00	34.26	2.667
		High	2 660.00	34.03	2.529
	64QAM	Low	2 526.00	34.12	2.582
		Middle	2 593.00	34.39	2.748
		High	2 660.00	33.91	2.460
	256QAM	Low	2 526.00	34.44	2.780
		Middle	2 593.00	34.28	2.679
		High	2 660.00	34.09	2.564
Port 47	QPSK	Low	2 526.00	34.40	2.754
		Middle	2 593.00	34.14	2.594
		High	2 660.00	34.10	2.570
	16QAM	Low	2 526.00	34.17	2.612
		Middle	2 593.00	34.29	2.685
		High	2 660.00	34.40	2.754
	64QAM	Low	2 526.00	34.30	2.692
		Middle	2 593.00	34.43	2.773
		High	2 660.00	34.05	2.541
	256QAM	Low	2 526.00	34.23	2.649

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 48		Middle	2 593.00	34.39	2.748
		High	2 660.00	33.95	2.483
		Low	2 526.00	34.71	2.958
	QPSK	Middle	2 593.00	34.40	2.754
		High	2 660.00	34.17	2.612
		Low	2 526.00	34.32	2.704
	16QAM	Middle	2 593.00	34.23	2.649
		High	2 660.00	34.04	2.535
		Low	2 526.00	34.33	2.710
	64QAM	Middle	2 593.00	34.33	2.710
		High	2 660.00	34.21	2.636
		Low	2 526.00	34.38	2.742
	256QAM	Middle	2 593.00	34.37	2.735
		High	2 660.00	34.18	2.618
		Low	2 526.00	34.06	2.547
Port 49	QPSK	Middle	2 593.00	33.85	2.427
		High	2 660.00	33.93	2.472
		Low	2 526.00	34.20	2.630
	16QAM	Middle	2 593.00	34.24	2.655
		High	2 660.00	33.99	2.506
		Low	2 526.00	34.25	2.661
	64QAM	Middle	2 593.00	34.16	2.606
		High	2 660.00	34.07	2.553
		Low	2 526.00	34.15	2.600
	256QAM	Middle	2 593.00	34.28	2.679
		High	2 660.00	34.04	2.535
		Low	2 526.00	34.22	2.642
Port 50	QPSK	Middle	2 593.00	34.06	2.547
		High	2 660.00	34.07	2.553
		Low	2 526.00	34.38	2.742
	16QAM	Middle	2 593.00	34.18	2.618
		High	2 660.00	34.13	2.588
		Low	2 526.00	34.22	2.642

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 526.00	34.21	2.636
		Middle	2 593.00	34.29	2.685
		High	2 660.00	34.12	2.582
	256QAM	Low	2 526.00	34.18	2.618
		Middle	2 593.00	34.38	2.742
		High	2 660.00	33.98	2.500
Port 51	QPSK	Low	2 526.00	33.90	2.455
		Middle	2 593.00	33.92	2.466
		High	2 660.00	34.16	2.606
	16QAM	Low	2 526.00	34.21	2.636
		Middle	2 593.00	34.08	2.559
		High	2 660.00	33.94	2.477
	64QAM	Low	2 526.00	34.22	2.642
		Middle	2 593.00	34.09	2.564
		High	2 660.00	34.13	2.588
	256QAM	Low	2 526.00	34.15	2.600
		Middle	2 593.00	34.27	2.673
		High	2 660.00	34.08	2.559
Port 52	QPSK	Low	2 526.00	34.12	2.582
		Middle	2 593.00	33.96	2.489
		High	2 660.00	34.18	2.618
	16QAM	Low	2 526.00	34.40	2.754
		Middle	2 593.00	34.24	2.655
		High	2 660.00	33.97	2.495
	64QAM	Low	2 526.00	34.29	2.685
		Middle	2 593.00	34.26	2.667
		High	2 660.00	34.28	2.679
	256QAM	Low	2 526.00	34.08	2.559
		Middle	2 593.00	34.30	2.692
		High	2 660.00	34.08	2.559
Port 53	QPSK	Low	2 526.00	34.02	2.523
		Middle	2 593.00	33.83	2.415

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 660.00	34.09	2.564
		Low	2 526.00	34.27	2.673
		Middle	2 593.00	34.04	2.535
		High	2 660.00	34.06	2.547
	64QAM	Low	2 526.00	34.10	2.570
		Middle	2 593.00	34.25	2.661
		High	2 660.00	34.17	2.612
	256QAM	Low	2 526.00	34.16	2.606
		Middle	2 593.00	34.19	2.624
		High	2 660.00	33.91	2.460
Port 54	QPSK	Low	2 526.00	34.14	2.594
		Middle	2 593.00	33.86	2.432
		High	2 660.00	33.81	2.404
	16QAM	Low	2 526.00	34.29	2.685
		Middle	2 593.00	33.94	2.477
		High	2 660.00	33.92	2.466
	64QAM	Low	2 526.00	34.02	2.523
		Middle	2 593.00	34.25	2.661
		High	2 660.00	34.28	2.679
	256QAM	Low	2 526.00	34.12	2.582
		Middle	2 593.00	33.94	2.477
		High	2 660.00	34.15	2.600
Port 55	QPSK	Low	2 526.00	33.89	2.449
		Middle	2 593.00	33.92	2.466
		High	2 660.00	33.85	2.427
	16QAM	Low	2 526.00	34.42	2.767
		Middle	2 593.00	33.86	2.432
		High	2 660.00	33.95	2.483
	64QAM	Low	2 526.00	34.17	2.612
		Middle	2 593.00	34.28	2.679
		High	2 660.00	34.20	2.630
	256QAM	Low	2 526.00	34.35	2.723

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 56		Middle	2 593.00	34.44	2.780
		High	2 660.00	34.04	2.535
		Low	2 526.00	34.06	2.547
	QPSK	Middle	2 593.00	33.89	2.449
		High	2 660.00	33.70	2.344
		Low	2 526.00	34.39	2.748
	16QAM	Middle	2 593.00	33.82	2.410
		High	2 660.00	33.90	2.455
		Low	2 526.00	34.49	2.812
	64QAM	Middle	2 593.00	34.03	2.529
		High	2 660.00	34.21	2.636
		Low	2 526.00	34.26	2.667
	256QAM	Middle	2 593.00	34.09	2.564
		High	2 660.00	34.05	2.541
		Low	2 526.00	34.07	2.553
Port 57	QPSK	Middle	2 593.00	33.98	2.500
		High	2 660.00	33.91	2.460
		Low	2 526.00	34.42	2.767
	16QAM	Middle	2 593.00	34.15	2.600
		High	2 660.00	34.06	2.547
		Low	2 526.00	34.12	2.582
	64QAM	Middle	2 593.00	34.13	2.588
		High	2 660.00	33.93	2.472
		Low	2 526.00	34.18	2.618
	256QAM	Middle	2 593.00	34.05	2.541
		High	2 660.00	34.20	2.630
		Low	2 526.00	34.16	2.606
Port 58	QPSK	Middle	2 593.00	33.62	2.301
		High	2 660.00	33.70	2.344
		Low	2 526.00	34.24	2.655
	16QAM	Middle	2 593.00	33.87	2.438
		High	2 660.00	33.91	2.460
		Low	2 526.00	34.16	2.606

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 526.00	34.21	2.636
		Middle	2 593.00	33.78	2.388
		High	2 660.00	33.95	2.483
	256QAM	Low	2 526.00	33.88	2.443
		Middle	2 593.00	33.91	2.460
		High	2 660.00	34.02	2.523
Port 59	QPSK	Low	2 526.00	34.04	2.535
		Middle	2 593.00	33.87	2.438
		High	2 660.00	33.84	2.421
	16QAM	Low	2 526.00	33.86	2.432
		Middle	2 593.00	34.00	2.512
		High	2 660.00	33.69	2.339
	64QAM	Low	2 526.00	33.91	2.460
		Middle	2 593.00	33.86	2.432
		High	2 660.00	33.93	2.472
	256QAM	Low	2 526.00	34.07	2.553
		Middle	2 593.00	34.25	2.661
		High	2 660.00	33.81	2.404
Port 60	QPSK	Low	2 526.00	33.93	2.472
		Middle	2 593.00	33.68	2.333
		High	2 660.00	34.14	2.594
	16QAM	Low	2 526.00	34.04	2.535
		Middle	2 593.00	34.25	2.661
		High	2 660.00	34.06	2.547
	64QAM	Low	2 526.00	34.16	2.606
		Middle	2 593.00	34.23	2.649
		High	2 660.00	34.26	2.667
	256QAM	Low	2 526.00	34.21	2.636
		Middle	2 593.00	34.22	2.642
		High	2 660.00	34.08	2.559
Port 61	QPSK	Low	2 526.00	34.03	2.529

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
		Middle	2 593.00	33.82	2.410
		High	2 660.00	33.97	2.495
	16QAM	Low	2 526.00	34.28	2.679
		Middle	2 593.00	34.28	2.679
		High	2 660.00	34.14	2.594
	64QAM	Low	2 526.00	33.94	2.477
		Middle	2 593.00	33.95	2.483
		High	2 660.00	34.04	2.535
	256QAM	Low	2 526.00	34.30	2.692
		Middle	2 593.00	33.98	2.500
		High	2 660.00	34.32	2.704
Port 62	QPSK	Low	2 526.00	34.20	2.630
		Middle	2 593.00	33.87	2.438
		High	2 660.00	33.87	2.438
	16QAM	Low	2 526.00	34.11	2.576
		Middle	2 593.00	34.14	2.594
		High	2 660.00	33.92	2.466
	64QAM	Low	2 526.00	34.18	2.618
		Middle	2 593.00	34.43	2.773
		High	2 660.00	34.25	2.661
	256QAM	Low	2 526.00	34.12	2.582
		Middle	2 593.00	34.16	2.606
		High	2 660.00	34.03	2.529
Port 63	QPSK	Low	2 526.00	34.02	2.523
		Middle	2 593.00	34.12	2.582
		High	2 660.00	34.02	2.523
	16QAM	Low	2 526.00	34.18	2.618
		Middle	2 593.00	34.29	2.685
		High	2 660.00	34.19	2.624
	64QAM	Low	2 526.00	34.14	2.594
		Middle	2 593.00	34.39	2.748
		High	2 660.00	34.11	2.576

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	256QAM	Low	2 526.00	34.23	2.649
		Middle	2 593.00	34.33	2.710
		High	2 660.00	34.07	2.553

* Because the results corrected by duty cycle are recorded, they do not match the test plot.

* This test report only contains the worst case plot data for each port and modulation.

Sum data of all port

Modulation	Channel	Frequency (MHz)	Summed Output Power (W)
QPSK	Low	2 526.00	166.220
	Middle	2 593.00	165.310
	High	2 660.00	161.452
16QAM	Low	2 526.00	171.297
	Middle	2 593.00	170.433
	High	2 660.00	166.410
64QAM	Low	2 526.00	171.644
	Middle	2 593.00	172.691
	High	2 660.00	166.669
256QAM	Low	2 526.00	170.470
	Middle	2 593.00	171.699
	High	2 660.00	166.970

20 MHz + 20 MHz + 15 MHz Bandwidth / 3 Carriers

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 0	QPSK	Low	2 523.50	33.71	2.350
		Middle	2 593.00	33.68	2.333
		High	2 662.50	33.46	2.218
	16QAM	Low	2 523.50	33.80	2.399
		Middle	2 593.00	33.66	2.323
		High	2 662.50	33.55	2.265
	64QAM	Low	2 523.50	34.04	2.535
		Middle	2 593.00	33.88	2.443
		High	2 662.50	33.72	2.355
	256QAM	Low	2 523.50	33.73	2.360
		Middle	2 593.00	33.71	2.350
		High	2 662.50	33.68	2.333
Port 1	QPSK	Low	2 523.50	33.46	2.218
		Middle	2 593.00	33.60	2.291
		High	2 662.50	33.53	2.254
	16QAM	Low	2 523.50	33.67	2.328
		Middle	2 593.00	33.63	2.307
		High	2 662.50	33.57	2.275
	64QAM	Low	2 523.50	33.75	2.371
		Middle	2 593.00	33.77	2.382
		High	2 662.50	33.34	2.158
	256QAM	Low	2 523.50	33.91	2.460
		Middle	2 593.00	33.67	2.328
		High	2 662.50	33.81	2.404
Port 2	QPSK	Low	2 523.50	33.67	2.328
		Middle	2 593.00	33.65	2.317
		High	2 662.50	33.65	2.317
	16QAM	Low	2 523.50	33.55	2.265
		Middle	2 593.00	34.05	2.541
		High	2 662.50	33.48	2.228

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 523.50	33.75	2.371
		Middle	2 593.00	33.76	2.377
		High	2 662.50	33.55	2.265
	256QAM	Low	2 523.50	33.90	2.455
		Middle	2 593.00	33.80	2.399
		High	2 662.50	33.63	2.307
Port 3	QPSK	Low	2 523.50	33.70	2.344
		Middle	2 593.00	33.46	2.218
		High	2 662.50	33.60	2.291
	16QAM	Low	2 523.50	33.61	2.296
		Middle	2 593.00	33.69	2.339
		High	2 662.50	33.48	2.228
	64QAM	Low	2 523.50	33.71	2.350
		Middle	2 593.00	33.90	2.455
		High	2 662.50	33.49	2.234
	256QAM	Low	2 523.50	33.84	2.421
		Middle	2 593.00	33.63	2.307
		High	2 662.50	33.69	2.339
Port 4	QPSK	Low	2 523.50	33.59	2.286
		Middle	2 593.00	33.97	2.495
		High	2 662.50	33.78	2.388
	16QAM	Low	2 523.50	33.64	2.312
		Middle	2 593.00	33.70	2.344
		High	2 662.50	33.51	2.244
	64QAM	Low	2 523.50	33.83	2.415
		Middle	2 593.00	33.72	2.355
		High	2 662.50	33.45	2.213
	256QAM	Low	2 523.50	33.59	2.286
		Middle	2 593.00	33.70	2.344
		High	2 662.50	33.64	2.312
Port 5	QPSK	Low	2 523.50	33.64	2.312
		Middle	2 593.00	33.55	2.265

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 662.50	33.54	2.259
		Low	2 523.50	33.47	2.223
		Middle	2 593.00	33.55	2.265
		High	2 662.50	33.42	2.198
	64QAM	Low	2 523.50	33.84	2.421
		Middle	2 593.00	33.49	2.234
		High	2 662.50	33.34	2.158
	256QAM	Low	2 523.50	33.68	2.333
		Middle	2 593.00	33.47	2.223
		High	2 662.50	33.59	2.286
Port 6	QPSK	Low	2 523.50	33.55	2.265
		Middle	2 593.00	33.40	2.188
		High	2 662.50	33.87	2.438
	16QAM	Low	2 523.50	33.64	2.312
		Middle	2 593.00	33.70	2.344
		High	2 662.50	33.40	2.188
	64QAM	Low	2 523.50	33.68	2.333
		Middle	2 593.00	33.53	2.254
		High	2 662.50	33.38	2.178
	256QAM	Low	2 523.50	33.51	2.244
		Middle	2 593.00	33.40	2.188
		High	2 662.50	33.59	2.286
Port 7	QPSK	Low	2 523.50	33.40	2.188
		Middle	2 593.00	33.52	2.249
		High	2 662.50	33.02	2.004
	16QAM	Low	2 523.50	33.72	2.355
		Middle	2 593.00	33.51	2.244
		High	2 662.50	33.45	2.213
	64QAM	Low	2 523.50	33.65	2.317
		Middle	2 593.00	33.73	2.360
		High	2 662.50	33.41	2.193
	256QAM	Low	2 523.50	33.38	2.178

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 8		Middle	2 593.00	33.70	2.344
		High	2 662.50	33.58	2.280
		Low	2 523.50	33.45	2.213
	QPSK	Middle	2 593.00	33.87	2.438
		High	2 662.50	33.46	2.218
		Low	2 523.50	33.57	2.275
	16QAM	Middle	2 593.00	33.75	2.371
		High	2 662.50	33.45	2.213
		Low	2 523.50	33.72	2.355
	64QAM	Middle	2 593.00	33.75	2.371
		High	2 662.50	33.35	2.163
		Low	2 523.50	33.62	2.301
	256QAM	Middle	2 593.00	33.89	2.449
		High	2 662.50	33.69	2.339
		Low	2 523.50	33.47	2.223
Port 9	QPSK	Middle	2 593.00	33.66	2.323
		High	2 662.50	33.56	2.270
		Low	2 523.50	33.76	2.377
	16QAM	Middle	2 593.00	33.86	2.432
		High	2 662.50	33.60	2.291
		Low	2 523.50	33.67	2.328
	64QAM	Middle	2 593.00	33.60	2.291
		High	2 662.50	33.59	2.286
		Low	2 523.50	33.74	2.366
	256QAM	Middle	2 593.00	33.73	2.360
		High	2 662.50	33.64	2.312
		Low	2 523.50	33.55	2.265
Port 10	QPSK	Middle	2 593.00	33.54	2.259
		High	2 662.50	33.35	2.163
		Low	2 523.50	33.52	2.249
	16QAM	Middle	2 593.00	33.69	2.339
		High	2 662.50	33.35	2.163
		Low	2 523.50	33.55	2.265

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 523.50	33.94	2.477
		Middle	2 593.00	33.91	2.460
		High	2 662.50	33.25	2.113
	256QAM	Low	2 523.50	33.84	2.421
		Middle	2 593.00	33.66	2.323
		High	2 662.50	33.57	2.275
Port 11	QPSK	Low	2 523.50	33.74	2.366
		Middle	2 593.00	33.55	2.265
		High	2 662.50	33.67	2.328
	16QAM	Low	2 523.50	33.58	2.280
		Middle	2 593.00	33.67	2.328
		High	2 662.50	33.64	2.312
	64QAM	Low	2 523.50	33.72	2.355
		Middle	2 593.00	33.83	2.415
		High	2 662.50	33.53	2.254
	256QAM	Low	2 523.50	33.40	2.188
		Middle	2 593.00	33.67	2.328
		High	2 662.50	33.56	2.270
Port 12	QPSK	Low	2 523.50	33.63	2.307
		Middle	2 593.00	33.82	2.410
		High	2 662.50	33.44	2.208
	16QAM	Low	2 523.50	33.66	2.323
		Middle	2 593.00	33.48	2.228
		High	2 662.50	33.73	2.360
	64QAM	Low	2 523.50	33.77	2.382
		Middle	2 593.00	33.84	2.421
		High	2 662.50	33.68	2.333
	256QAM	Low	2 523.50	33.76	2.377
		Middle	2 593.00	33.62	2.301
		High	2 662.50	33.69	2.339
Port 13	QPSK	Low	2 523.50	33.56	2.270
		Middle	2 593.00	33.59	2.286

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 662.50	33.28	2.128
		Low	2 523.50	33.75	2.371
		Middle	2 593.00	33.69	2.339
		High	2 662.50	33.52	2.249
	64QAM	Low	2 523.50	33.69	2.339
		Middle	2 593.00	33.73	2.360
		High	2 662.50	33.42	2.198
	256QAM	Low	2 523.50	33.90	2.455
		Middle	2 593.00	33.69	2.339
		High	2 662.50	33.50	2.239
Port 14	QPSK	Low	2 523.50	33.69	2.339
		Middle	2 593.00	33.64	2.312
		High	2 662.50	33.63	2.307
	16QAM	Low	2 523.50	33.94	2.477
		Middle	2 593.00	33.62	2.301
		High	2 662.50	33.37	2.173
	64QAM	Low	2 523.50	33.64	2.312
		Middle	2 593.00	33.73	2.360
		High	2 662.50	33.45	2.213
	256QAM	Low	2 523.50	33.74	2.366
		Middle	2 593.00	33.58	2.280
		High	2 662.50	33.74	2.366
Port 15	QPSK	Low	2 523.50	33.59	2.286
		Middle	2 593.00	33.74	2.366
		High	2 662.50	33.46	2.218
	16QAM	Low	2 523.50	33.87	2.438
		Middle	2 593.00	33.50	2.239
		High	2 662.50	33.80	2.399
	64QAM	Low	2 523.50	33.99	2.506
		Middle	2 593.00	33.63	2.307
		High	2 662.50	33.37	2.173
	256QAM	Low	2 523.50	33.77	2.382

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 16		Middle	2 593.00	33.72	2.355
		High	2 662.50	33.59	2.286
		Low	2 523.50	33.91	2.460
	QPSK	Middle	2 593.00	33.89	2.449
		High	2 662.50	33.74	2.366
		Low	2 523.50	33.80	2.399
	16QAM	Middle	2 593.00	33.87	2.438
		High	2 662.50	33.78	2.388
		Low	2 523.50	33.85	2.427
	64QAM	Middle	2 593.00	34.09	2.564
		High	2 662.50	33.62	2.301
		Low	2 523.50	34.03	2.529
	256QAM	Middle	2 593.00	34.02	2.523
		High	2 662.50	33.80	2.399
		Low	2 523.50	33.93	2.472
Port 17	QPSK	Middle	2 593.00	33.61	2.296
		High	2 662.50	33.54	2.259
		Low	2 523.50	33.82	2.410
	16QAM	Middle	2 593.00	33.91	2.460
		High	2 662.50	33.72	2.355
		Low	2 523.50	33.81	2.404
	64QAM	Middle	2 593.00	33.75	2.371
		High	2 662.50	33.82	2.410
		Low	2 523.50	33.96	2.489
	256QAM	Middle	2 593.00	34.20	2.630
		High	2 662.50	33.83	2.415
		Low	2 523.50	33.85	2.427
Port 18	QPSK	Middle	2 593.00	34.07	2.553
		High	2 662.50	33.95	2.483
		Low	2 523.50	33.81	2.404
	16QAM	Middle	2 593.00	33.77	2.382
		High	2 662.50	33.67	2.328
		Low	2 523.50	33.85	2.427

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 523.50	33.83	2.415
		Middle	2 593.00	33.91	2.460
		High	2 662.50	33.69	2.339
	256QAM	Low	2 523.50	33.85	2.427
		Middle	2 593.00	33.59	2.286
		High	2 662.50	33.91	2.460
Port 19	QPSK	Low	2 523.50	33.75	2.371
		Middle	2 593.00	33.67	2.328
		High	2 662.50	33.55	2.265
	16QAM	Low	2 523.50	33.92	2.466
		Middle	2 593.00	33.91	2.460
		High	2 662.50	33.75	2.371
	64QAM	Low	2 523.50	33.81	2.404
		Middle	2 593.00	33.84	2.421
		High	2 662.50	33.56	2.270
	256QAM	Low	2 523.50	33.89	2.449
		Middle	2 593.00	33.54	2.259
		High	2 662.50	33.93	2.472
Port 20	QPSK	Low	2 523.50	33.90	2.455
		Middle	2 593.00	33.68	2.333
		High	2 662.50	33.61	2.296
	16QAM	Low	2 523.50	33.87	2.438
		Middle	2 593.00	33.82	2.410
		High	2 662.50	33.53	2.254
	64QAM	Low	2 523.50	33.89	2.449
		Middle	2 593.00	34.05	2.541
		High	2 662.50	33.77	2.382
	256QAM	Low	2 523.50	33.89	2.449
		Middle	2 593.00	33.74	2.366
		High	2 662.50	33.88	2.443
Port 21	QPSK	Low	2 523.50	33.79	2.393
		Middle	2 593.00	33.86	2.432

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 662.50	33.52	2.249
		Low	2 523.50	33.82	2.410
		Middle	2 593.00	33.60	2.291
		High	2 662.50	33.72	2.355
	64QAM	Low	2 523.50	33.91	2.460
		Middle	2 593.00	33.64	2.312
		High	2 662.50	33.91	2.460
	256QAM	Low	2 523.50	33.83	2.415
		Middle	2 593.00	33.84	2.421
		High	2 662.50	33.67	2.328
Port 22	QPSK	Low	2 523.50	33.74	2.366
		Middle	2 593.00	33.63	2.307
		High	2 662.50	33.56	2.270
	16QAM	Low	2 523.50	33.88	2.443
		Middle	2 593.00	33.59	2.286
		High	2 662.50	33.64	2.312
	64QAM	Low	2 523.50	34.06	2.547
		Middle	2 593.00	33.50	2.239
		High	2 662.50	33.55	2.265
	256QAM	Low	2 523.50	33.61	2.296
		Middle	2 593.00	33.85	2.427
		High	2 662.50	33.76	2.377
Port 23	QPSK	Low	2 523.50	34.06	2.547
		Middle	2 593.00	33.70	2.344
		High	2 662.50	33.69	2.339
	16QAM	Low	2 523.50	33.73	2.360
		Middle	2 593.00	33.90	2.455
		High	2 662.50	33.64	2.312
	64QAM	Low	2 523.50	33.91	2.460
		Middle	2 593.00	33.74	2.366
		High	2 662.50	33.50	2.239
	256QAM	Low	2 523.50	33.53	2.254

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 24		Middle	2 593.00	34.11	2.576
		High	2 662.50	33.80	2.399
		Low	2 523.50	33.79	2.393
	QPSK	Middle	2 593.00	33.56	2.270
		High	2 662.50	33.24	2.109
		Low	2 523.50	34.15	2.600
	16QAM	Middle	2 593.00	33.82	2.410
		High	2 662.50	33.40	2.188
		Low	2 523.50	33.77	2.382
	64QAM	Middle	2 593.00	33.88	2.443
		High	2 662.50	33.34	2.158
		Low	2 523.50	33.81	2.404
	256QAM	Middle	2 593.00	33.94	2.477
		High	2 662.50	33.64	2.312
		Low	2 523.50	34.09	2.564
Port 25	QPSK	Middle	2 593.00	33.59	2.286
		High	2 662.50	33.24	2.109
		Low	2 523.50	34.03	2.529
	16QAM	Middle	2 593.00	33.68	2.333
		High	2 662.50	33.49	2.234
		Low	2 523.50	33.90	2.455
	64QAM	Middle	2 593.00	33.80	2.399
		High	2 662.50	33.40	2.188
		Low	2 523.50	33.86	2.432
	256QAM	Middle	2 593.00	33.56	2.270
		High	2 662.50	33.23	2.104
		Low	2 523.50	33.66	2.323
Port 26	QPSK	Middle	2 593.00	33.86	2.432
		High	2 662.50	33.47	2.223
		Low	2 523.50	33.80	2.399
	16QAM	Middle	2 593.00	33.73	2.360
		High	2 662.50	33.58	2.280
		Low	2 523.50	33.66	2.323

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 523.50	34.00	2.512
		Middle	2 593.00	33.61	2.296
		High	2 662.50	33.40	2.188
	256QAM	Low	2 523.50	33.96	2.489
		Middle	2 593.00	33.88	2.443
		High	2 662.50	33.61	2.296
Port 27	QPSK	Low	2 523.50	33.76	2.377
		Middle	2 593.00	33.69	2.339
		High	2 662.50	33.71	2.350
	16QAM	Low	2 523.50	33.94	2.477
		Middle	2 593.00	33.87	2.438
		High	2 662.50	33.81	2.404
	64QAM	Low	2 523.50	33.93	2.472
		Middle	2 593.00	33.65	2.317
		High	2 662.50	33.68	2.333
	256QAM	Low	2 523.50	33.84	2.421
		Middle	2 593.00	33.77	2.382
		High	2 662.50	33.87	2.438
Port 28	QPSK	Low	2 523.50	33.71	2.350
		Middle	2 593.00	33.86	2.432
		High	2 662.50	33.50	2.239
	16QAM	Low	2 523.50	33.66	2.323
		Middle	2 593.00	33.88	2.443
		High	2 662.50	33.72	2.355
	64QAM	Low	2 523.50	33.97	2.495
		Middle	2 593.00	34.08	2.559
		High	2 662.50	33.77	2.382
	256QAM	Low	2 523.50	33.89	2.449
		Middle	2 593.00	34.11	2.576
		High	2 662.50	33.69	2.339
Port 29	QPSK	Low	2 523.50	33.77	2.382
		Middle	2 593.00	33.87	2.438

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 662.50	33.48	2.228
		Low	2 523.50	33.80	2.399
		Middle	2 593.00	33.96	2.489
		High	2 662.50	33.72	2.355
	64QAM	Low	2 523.50	33.73	2.360
		Middle	2 593.00	33.77	2.382
		High	2 662.50	33.76	2.377
	256QAM	Low	2 523.50	33.68	2.333
		Middle	2 593.00	33.66	2.323
		High	2 662.50	33.63	2.307
Port 30	QPSK	Low	2 523.50	33.93	2.472
		Middle	2 593.00	33.79	2.393
		High	2 662.50	33.71	2.350
	16QAM	Low	2 523.50	34.15	2.600
		Middle	2 593.00	34.16	2.606
		High	2 662.50	33.62	2.301
	64QAM	Low	2 523.50	34.00	2.512
		Middle	2 593.00	34.29	2.685
		High	2 662.50	33.68	2.333
	256QAM	Low	2 523.50	33.84	2.421
		Middle	2 593.00	34.12	2.582
		High	2 662.50	33.81	2.404
Port 31	QPSK	Low	2 523.50	34.53	2.838
		Middle	2 593.00	34.18	2.618
		High	2 662.50	34.32	2.704
	16QAM	Low	2 523.50	34.57	2.864
		Middle	2 593.00	34.30	2.692
		High	2 662.50	34.27	2.673
	64QAM	Low	2 523.50	34.38	2.742
		Middle	2 593.00	34.50	2.818
		High	2 662.50	34.38	2.742
	256QAM	Low	2 523.50	34.58	2.871

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 32		Middle	2 593.00	34.19	2.624
		High	2 662.50	34.42	2.767
		Low	2 523.50	34.02	2.523
	QPSK	Middle	2 593.00	33.60	2.291
		High	2 662.50	33.51	2.244
		Low	2 523.50	34.06	2.547
	16QAM	Middle	2 593.00	33.88	2.443
		High	2 662.50	33.67	2.328
		Low	2 523.50	34.02	2.523
	64QAM	Middle	2 593.00	34.08	2.559
		High	2 662.50	33.75	2.371
		Low	2 523.50	33.95	2.483
	256QAM	Middle	2 593.00	33.85	2.427
		High	2 662.50	33.79	2.393
		Low	2 523.50	33.89	2.449
Port 33	QPSK	Middle	2 593.00	33.94	2.477
		High	2 662.50	33.48	2.228
		Low	2 523.50	34.00	2.512
	16QAM	Middle	2 593.00	33.96	2.489
		High	2 662.50	33.67	2.328
		Low	2 523.50	34.01	2.518
	64QAM	Middle	2 593.00	33.96	2.489
		High	2 662.50	33.73	2.360
		Low	2 523.50	33.87	2.438
	256QAM	Middle	2 593.00	33.92	2.466
		High	2 662.50	33.95	2.483
		Low	2 523.50	34.13	2.588
Port 34	QPSK	Middle	2 593.00	33.90	2.455
		High	2 662.50	33.62	2.301
		Low	2 523.50	33.89	2.449
	16QAM	Middle	2 593.00	33.88	2.443
		High	2 662.50	33.68	2.333
		Low	2 523.50	33.89	2.449

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 523.50	34.43	2.773
		Middle	2 593.00	34.19	2.624
		High	2 662.50	33.76	2.377
	256QAM	Low	2 523.50	33.89	2.449
		Middle	2 593.00	33.72	2.355
		High	2 662.50	33.99	2.506
Port 35	QPSK	Low	2 523.50	33.86	2.432
		Middle	2 593.00	34.34	2.716
		High	2 662.50	33.74	2.366
	16QAM	Low	2 523.50	34.13	2.588
		Middle	2 593.00	34.01	2.518
		High	2 662.50	33.92	2.466
	64QAM	Low	2 523.50	34.32	2.704
		Middle	2 593.00	34.54	2.844
		High	2 662.50	33.96	2.489
	256QAM	Low	2 523.50	34.02	2.523
		Middle	2 593.00	34.11	2.576
		High	2 662.50	34.03	2.529
Port 36	QPSK	Low	2 523.50	33.82	2.410
		Middle	2 593.00	33.49	2.234
		High	2 662.50	33.65	2.317
	16QAM	Low	2 523.50	33.97	2.495
		Middle	2 593.00	33.80	2.399
		High	2 662.50	33.84	2.421
	64QAM	Low	2 523.50	34.17	2.612
		Middle	2 593.00	34.10	2.570
		High	2 662.50	34.06	2.547
	256QAM	Low	2 523.50	33.85	2.427
		Middle	2 593.00	34.00	2.512
		High	2 662.50	33.78	2.388
Port 37	QPSK	Low	2 523.50	33.92	2.466
		Middle	2 593.00	33.78	2.388

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 662.50	33.78	2.388
		Low	2 523.50	34.13	2.588
		Middle	2 593.00	34.13	2.588
		High	2 662.50	33.68	2.333
	64QAM	Low	2 523.50	34.23	2.649
		Middle	2 593.00	33.87	2.438
		High	2 662.50	33.81	2.404
	256QAM	Low	2 523.50	33.92	2.466
		Middle	2 593.00	33.79	2.393
		High	2 662.50	33.80	2.399
Port 38	QPSK	Low	2 523.50	33.94	2.477
		Middle	2 593.00	34.00	2.512
		High	2 662.50	34.00	2.512
	16QAM	Low	2 523.50	34.16	2.606
		Middle	2 593.00	33.93	2.472
		High	2 662.50	34.15	2.600
	64QAM	Low	2 523.50	33.99	2.506
		Middle	2 593.00	33.94	2.477
		High	2 662.50	34.14	2.594
	256QAM	Low	2 523.50	33.92	2.466
		Middle	2 593.00	34.06	2.547
		High	2 662.50	33.97	2.495
Port 39	QPSK	Low	2 523.50	33.69	2.339
		Middle	2 593.00	33.82	2.410
		High	2 662.50	33.65	2.317
	16QAM	Low	2 523.50	33.96	2.489
		Middle	2 593.00	34.02	2.523
		High	2 662.50	34.04	2.535
	64QAM	Low	2 523.50	33.99	2.506
		Middle	2 593.00	34.25	2.661
		High	2 662.50	33.81	2.404
	256QAM	Low	2 523.50	33.68	2.333

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 40		Middle	2 593.00	34.04	2.535
		High	2 662.50	34.05	2.541
		Low	2 523.50	33.73	2.360
	QPSK	Middle	2 593.00	33.90	2.455
		High	2 662.50	33.28	2.128
		Low	2 523.50	33.71	2.350
	16QAM	Middle	2 593.00	33.77	2.382
		High	2 662.50	33.30	2.138
		Low	2 523.50	34.00	2.512
	64QAM	Middle	2 593.00	33.92	2.466
		High	2 662.50	33.58	2.280
		Low	2 523.50	33.74	2.366
	256QAM	Middle	2 593.00	33.85	2.427
		High	2 662.50	33.42	2.198
		Low	2 523.50	33.87	2.438
Port 41	QPSK	Middle	2 593.00	33.88	2.443
		High	2 662.50	33.59	2.286
		Low	2 523.50	33.73	2.360
	16QAM	Middle	2 593.00	33.74	2.366
		High	2 662.50	33.39	2.183
		Low	2 523.50	34.10	2.570
	64QAM	Middle	2 593.00	34.08	2.559
		High	2 662.50	33.59	2.286
		Low	2 523.50	33.70	2.344
	256QAM	Middle	2 593.00	33.95	2.483
		High	2 662.50	33.81	2.404
		Low	2 523.50	34.00	2.512
Port 42	QPSK	Middle	2 593.00	33.88	2.443
		High	2 662.50	33.43	2.203
		Low	2 523.50	33.89	2.449
	16QAM	Middle	2 593.00	33.85	2.427
		High	2 662.50	33.29	2.133
		Low	2 523.50	33.70	2.344

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 523.50	34.07	2.553
		Middle	2 593.00	33.44	2.208
		High	2 662.50	33.57	2.275
	256QAM	Low	2 523.50	33.34	2.158
		Middle	2 593.00	33.88	2.443
		High	2 662.50	33.94	2.477
Port 43	QPSK	Low	2 523.50	33.91	2.460
		Middle	2 593.00	33.86	2.432
		High	2 662.50	33.44	2.208
	16QAM	Low	2 523.50	34.04	2.535
		Middle	2 593.00	33.62	2.301
		High	2 662.50	33.64	2.312
	64QAM	Low	2 523.50	33.94	2.477
		Middle	2 593.00	33.78	2.388
		High	2 662.50	33.58	2.280
	256QAM	Low	2 523.50	33.84	2.421
		Middle	2 593.00	34.08	2.559
		High	2 662.50	33.55	2.265
Port 44	QPSK	Low	2 523.50	33.62	2.301
		Middle	2 593.00	33.60	2.291
		High	2 662.50	33.37	2.173
	16QAM	Low	2 523.50	33.85	2.427
		Middle	2 593.00	33.58	2.280
		High	2 662.50	33.62	2.301
	64QAM	Low	2 523.50	33.79	2.393
		Middle	2 593.00	34.02	2.523
		High	2 662.50	33.55	2.265
	256QAM	Low	2 523.50	33.75	2.371
		Middle	2 593.00	33.60	2.291
		High	2 662.50	33.80	2.399
Port 45	QPSK	Low	2 523.50	33.64	2.312
		Middle	2 593.00	33.84	2.421

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 662.50	33.57	2.275
		Low	2 523.50	33.83	2.415
		Middle	2 593.00	33.84	2.421
		High	2 662.50	33.50	2.239
	64QAM	Low	2 523.50	33.89	2.449
		Middle	2 593.00	33.93	2.472
		High	2 662.50	33.75	2.371
	256QAM	Low	2 523.50	33.73	2.360
		Middle	2 593.00	33.89	2.449
		High	2 662.50	33.86	2.432
Port 46	QPSK	Low	2 523.50	33.82	2.410
		Middle	2 593.00	33.60	2.291
		High	2 662.50	33.61	2.296
	16QAM	Low	2 523.50	33.78	2.388
		Middle	2 593.00	33.73	2.360
		High	2 662.50	33.74	2.366
	64QAM	Low	2 523.50	33.83	2.415
		Middle	2 593.00	33.53	2.254
		High	2 662.50	33.58	2.280
	256QAM	Low	2 523.50	33.68	2.333
		Middle	2 593.00	33.61	2.296
		High	2 662.50	33.48	2.228
Port 47	QPSK	Low	2 523.50	33.64	2.312
		Middle	2 593.00	33.48	2.228
		High	2 662.50	33.67	2.328
	16QAM	Low	2 523.50	33.67	2.328
		Middle	2 593.00	34.13	2.588
		High	2 662.50	33.34	2.158
	64QAM	Low	2 523.50	33.73	2.360
		Middle	2 593.00	33.63	2.307
		High	2 662.50	33.63	2.307
	256QAM	Low	2 523.50	33.44	2.208

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 48		Middle	2 593.00	33.84	2.421
		High	2 662.50	33.56	2.270
		Low	2 523.50	33.90	2.455
	QPSK	Middle	2 593.00	33.61	2.296
		High	2 662.50	33.82	2.410
		Low	2 523.50	33.91	2.460
	16QAM	Middle	2 593.00	33.86	2.432
		High	2 662.50	33.79	2.393
		Low	2 523.50	33.91	2.460
	64QAM	Middle	2 593.00	33.79	2.393
		High	2 662.50	33.74	2.366
		Low	2 523.50	33.68	2.333
	256QAM	Middle	2 593.00	33.84	2.421
		High	2 662.50	33.47	2.223
		Low	2 523.50	33.61	2.296
Port 49	QPSK	Middle	2 593.00	33.64	2.312
		High	2 662.50	33.44	2.208
		Low	2 523.50	33.87	2.438
	16QAM	Middle	2 593.00	33.80	2.399
		High	2 662.50	33.67	2.328
		Low	2 523.50	33.71	2.350
	64QAM	Middle	2 593.00	33.97	2.495
		High	2 662.50	33.79	2.393
		Low	2 523.50	33.90	2.455
	256QAM	Middle	2 593.00	33.62	2.301
		High	2 662.50	33.51	2.244
		Low	2 523.50	33.84	2.421
Port 50	QPSK	Middle	2 593.00	33.64	2.312
		High	2 662.50	33.61	2.296
		Low	2 523.50	33.92	2.466
	16QAM	Middle	2 593.00	33.88	2.443
		High	2 662.50	33.74	2.366
		Low	2 523.50	33.84	2.421

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 523.50	33.71	2.350
		Middle	2 593.00	33.74	2.366
		High	2 662.50	33.82	2.410
	256QAM	Low	2 523.50	33.86	2.432
		Middle	2 593.00	33.71	2.350
		High	2 662.50	33.81	2.404
Port 51	QPSK	Low	2 523.50	33.69	2.339
		Middle	2 593.00	33.72	2.355
		High	2 662.50	33.39	2.183
	16QAM	Low	2 523.50	33.85	2.427
		Middle	2 593.00	33.74	2.366
		High	2 662.50	33.60	2.291
	64QAM	Low	2 523.50	33.80	2.399
		Middle	2 593.00	33.44	2.208
		High	2 662.50	33.59	2.286
	256QAM	Low	2 523.50	33.95	2.483
		Middle	2 593.00	33.53	2.254
		High	2 662.50	33.67	2.328
Port 52	QPSK	Low	2 523.50	33.89	2.449
		Middle	2 593.00	33.62	2.301
		High	2 662.50	33.56	2.270
	16QAM	Low	2 523.50	33.86	2.432
		Middle	2 593.00	33.64	2.312
		High	2 662.50	33.66	2.323
	64QAM	Low	2 523.50	33.78	2.388
		Middle	2 593.00	34.07	2.553
		High	2 662.50	33.72	2.355
	256QAM	Low	2 523.50	34.25	2.661
		Middle	2 593.00	34.05	2.541
		High	2 662.50	33.47	2.223
Port 53	QPSK	Low	2 523.50	33.66	2.323
		Middle	2 593.00	33.80	2.399

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	16QAM	High	2 662.50	33.46	2.218
		Low	2 523.50	33.93	2.472
		Middle	2 593.00	33.66	2.323
		High	2 662.50	33.56	2.270
	64QAM	Low	2 523.50	34.04	2.535
		Middle	2 593.00	33.93	2.472
		High	2 662.50	33.71	2.350
	256QAM	Low	2 523.50	34.12	2.582
		Middle	2 593.00	34.12	2.582
		High	2 662.50	33.52	2.249
Port 54	QPSK	Low	2 523.50	33.46	2.218
		Middle	2 593.00	33.57	2.275
		High	2 662.50	33.39	2.183
	16QAM	Low	2 523.50	33.51	2.244
		Middle	2 593.00	33.74	2.366
		High	2 662.50	33.76	2.377
	64QAM	Low	2 523.50	33.86	2.432
		Middle	2 593.00	33.86	2.432
		High	2 662.50	33.47	2.223
	256QAM	Low	2 523.50	33.64	2.312
		Middle	2 593.00	33.37	2.173
		High	2 662.50	33.71	2.350
Port 55	QPSK	Low	2 523.50	33.49	2.234
		Middle	2 593.00	33.79	2.393
		High	2 662.50	33.22	2.099
	16QAM	Low	2 523.50	33.60	2.291
		Middle	2 593.00	33.68	2.333
		High	2 662.50	33.44	2.208
	64QAM	Low	2 523.50	33.79	2.393
		Middle	2 593.00	33.98	2.500
		High	2 662.50	33.42	2.198
	256QAM	Low	2 523.50	33.57	2.275

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
Port 56		Middle	2 593.00	33.73	2.360
		High	2 662.50	33.61	2.296
		Low	2 523.50	33.65	2.317
	QPSK	Middle	2 593.00	33.37	2.173
		High	2 662.50	33.49	2.234
		Low	2 523.50	33.80	2.399
	16QAM	Middle	2 593.00	33.45	2.213
		High	2 662.50	33.50	2.239
		Low	2 523.50	33.47	2.223
	64QAM	Middle	2 593.00	33.71	2.350
		High	2 662.50	33.69	2.339
		Low	2 523.50	33.57	2.275
	256QAM	Middle	2 593.00	33.43	2.203
		High	2 662.50	33.33	2.153
		Low	2 523.50	33.52	2.249
Port 57	QPSK	Middle	2 593.00	33.69	2.339
		High	2 662.50	33.56	2.270
		Low	2 523.50	33.85	2.427
	16QAM	Middle	2 593.00	33.77	2.382
		High	2 662.50	33.69	2.339
		Low	2 523.50	33.62	2.301
	64QAM	Middle	2 593.00	33.77	2.382
		High	2 662.50	33.50	2.239
		Low	2 523.50	33.74	2.366
	256QAM	Middle	2 593.00	33.60	2.291
		High	2 662.50	33.66	2.323
		Low	2 523.50	33.65	2.317
Port 58	QPSK	Middle	2 593.00	33.35	2.163
		High	2 662.50	33.25	2.113
		Low	2 523.50	33.79	2.393
	16QAM	Middle	2 593.00	33.33	2.153
		High	2 662.50	33.49	2.234
		Low	2 523.50	33.65	2.317

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	64QAM	Low	2 523.50	33.69	2.339
		Middle	2 593.00	33.15	2.065
		High	2 662.50	33.48	2.228
	256QAM	Low	2 523.50	33.71	2.350
		Middle	2 593.00	33.45	2.213
		High	2 662.50	33.30	2.138
Port 59	QPSK	Low	2 523.50	33.34	2.158
		Middle	2 593.00	33.42	2.198
		High	2 662.50	33.49	2.234
	16QAM	Low	2 523.50	33.73	2.360
		Middle	2 593.00	33.39	2.183
		High	2 662.50	33.41	2.193
	64QAM	Low	2 523.50	33.34	2.158
		Middle	2 593.00	33.61	2.296
		High	2 662.50	33.65	2.317
	256QAM	Low	2 523.50	33.80	2.399
		Middle	2 593.00	33.72	2.355
		High	2 662.50	33.37	2.173
Port 60	QPSK	Low	2 523.50	33.66	2.323
		Middle	2 593.00	33.02	2.004
		High	2 662.50	33.61	2.296
	16QAM	Low	2 523.50	33.63	2.307
		Middle	2 593.00	34.03	2.529
		High	2 662.50	33.44	2.208
	64QAM	Low	2 523.50	33.78	2.388
		Middle	2 593.00	33.98	2.500
		High	2 662.50	33.65	2.317
	256QAM	Low	2 523.50	33.45	2.213
		Middle	2 593.00	33.55	2.265
		High	2 662.50	33.74	2.366
Port 61	QPSK	Low	2 523.50	33.57	2.275

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
		Middle	2 593.00	33.24	2.109
		High	2 662.50	33.62	2.301
		Low	2 523.50	33.48	2.228
	16QAM	Middle	2 593.00	33.87	2.438
		High	2 662.50	33.56	2.270
		Low	2 523.50	33.68	2.333
	64QAM	Middle	2 593.00	33.41	2.193
		High	2 662.50	33.79	2.393
		Low	2 523.50	33.86	2.432
	256QAM	Middle	2 593.00	33.65	2.317
		High	2 662.50	33.45	2.213
		Low	2 523.50	33.66	2.323
Port 62	QPSK	Middle	2 593.00	33.94	2.477
		High	2 662.50	33.39	2.183
		Low	2 523.50	33.71	2.350
	16QAM	Middle	2 593.00	33.76	2.377
		High	2 662.50	33.78	2.388
		Low	2 523.50	33.54	2.259
	64QAM	Middle	2 593.00	33.76	2.377
		High	2 662.50	33.57	2.275
		Low	2 523.50	33.65	2.317
	256QAM	Middle	2 593.00	33.63	2.307
		High	2 662.50	33.71	2.350
		Low	2 523.50	33.57	2.275
Port 63	QPSK	Middle	2 593.00	33.37	2.173
		High	2 662.50	33.30	2.138
		Low	2 523.50	33.45	2.213
	16QAM	Middle	2 593.00	33.30	2.138
		High	2 662.50	33.71	2.350
		Low	2 523.50	33.45	2.213
	64QAM	Middle	2 593.00	33.70	2.344
		High	2 662.50	33.60	2.291
		Low	2 523.50	33.45	2.213

Port	Modulation	Channel	Frequency (MHz)	Measured Output Power	
				(dBm)	(W)
	256QAM	Low	2 523.50	33.47	2.223
		Middle	2 593.00	33.61	2.296
		High	2 662.50	33.49	2.234

* Because the results corrected by duty cycle are recorded, they do not match the test plot.

* This test report only contains the worst case plot data for each port and modulation.

Sum data of all port

Modulation	Channel	Frequency (MHz)	Summed Output Power (W)
QPSK	Low	2 523.50	151.511
	Middle	2 593.00	150.031
	High	2 662.50	145.054
16QAM	Low	2 523.50	154.234
	Middle	2 593.00	152.624
	High	2 662.50	147.415
64QAM	Low	2 523.50	155.704
	Middle	2 593.00	154.783
	High	2 662.50	147.724
256QAM	Low	2 523.50	152.975
	Middle	2 593.00	152.792
	High	2 662.50	149.907

EIRP Calculation

Item	Formula	Value (dBm)
27.50(h)(1)(ii) Limit	$33 \text{ dBW} + 10 \log(X/Y) \text{ dBW} + 10 \log(360/\text{beamwidth}) \text{ dBW}$ $= 33 \text{ dBW} + 10 \log(15/6) \text{ dBW} + 10 \log(360/14) \text{ dBW}$	81.081
Total power of port 0 to 31	Sum all measured power value of W units	49.395
Sum ANT gain port 0 to 31	Total power + Antenna gain = 49.395 dBm + 23.5 dBi	72.895
Total power of port 32 to 63	Sum all measured power value of W units	49.329
Sum ANT gain port 32 to 63	Total power + Antenna gain = 49.329 dBm + 23.5 dBi	72.829
Final Calculated EIRP	Sum port 0 to 63 (with Antenna gain)	75.873

* EIRP Limit was described only for the worst case.

* EIRP Calculation was performed for point of having maximum output power.

- Port 31, 20 MHz + 20 MHz + 20 MHz / 3 Carriers, 64QAM, Middle channel.

* Antenna gain and horizontal beamwidth were quoted from manufacturer's specification

- Antenna gain (32 port) = Maximum service beam gain = 23.5 dBi

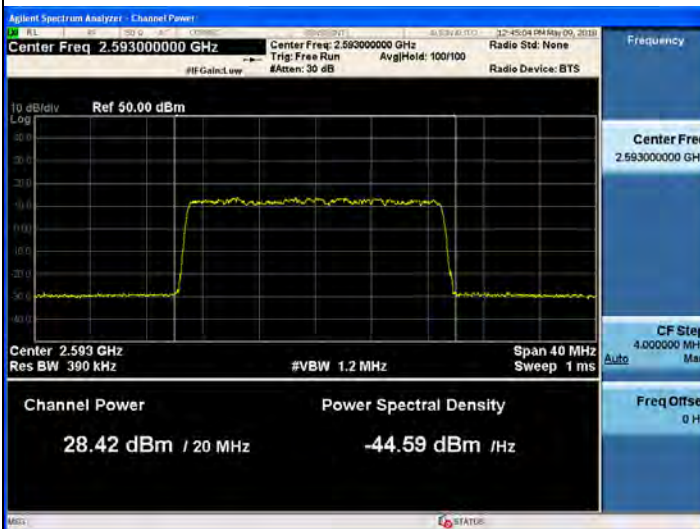
- Total horizontal plane beamwidth (maximum) = 14 °

Plots of Output Power - 20 MHz Bandwidth / 1 Carrier

Port 0

Modulation: QPSK

Channel: Middle



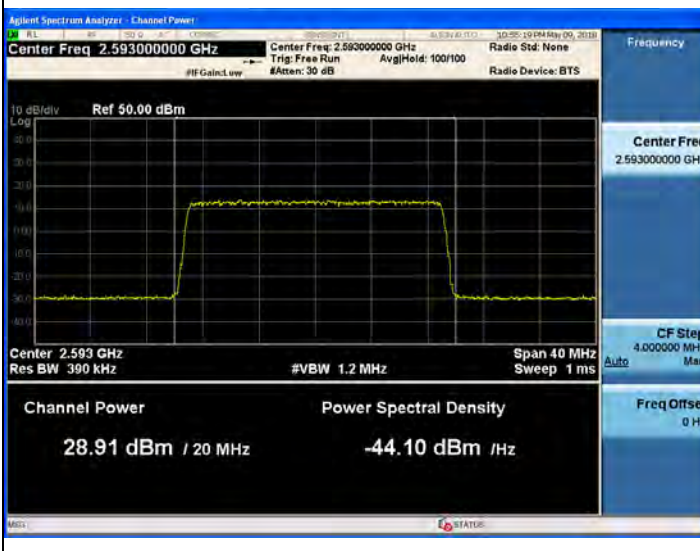
Modulation: 16QAM

Channel: Middle



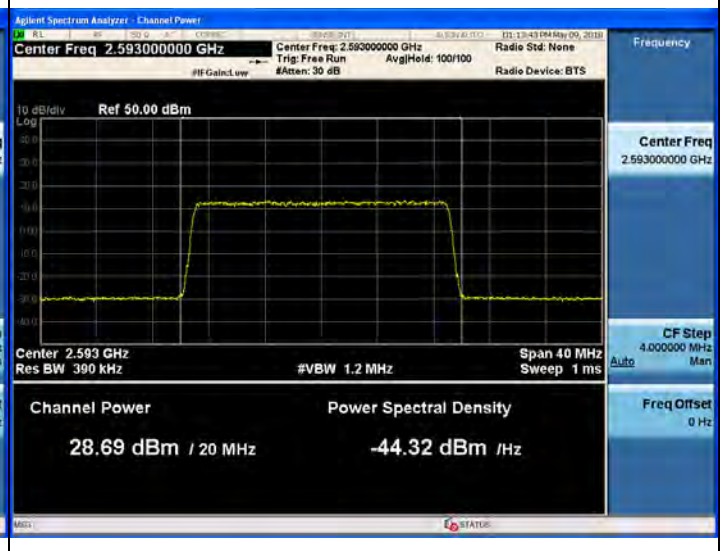
Modulation: 64QAM

Channel: Middle

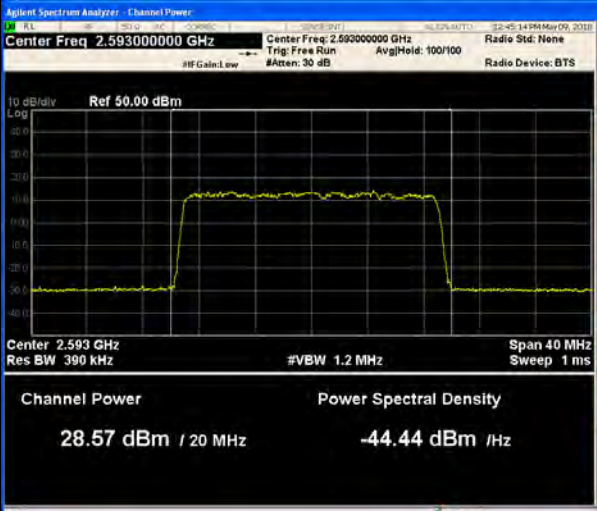
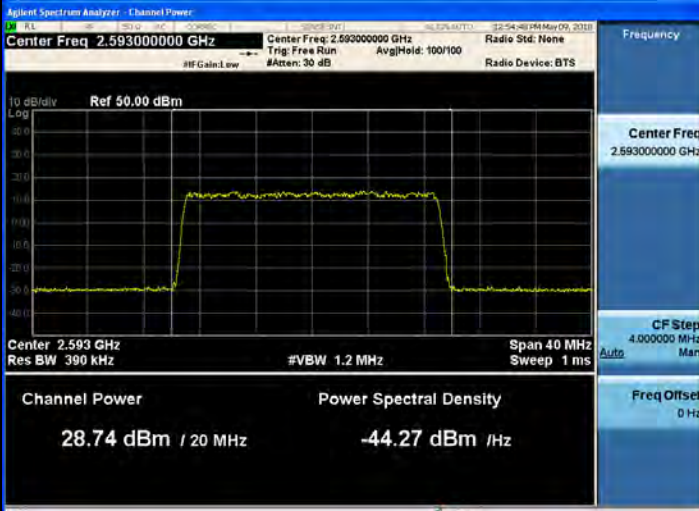
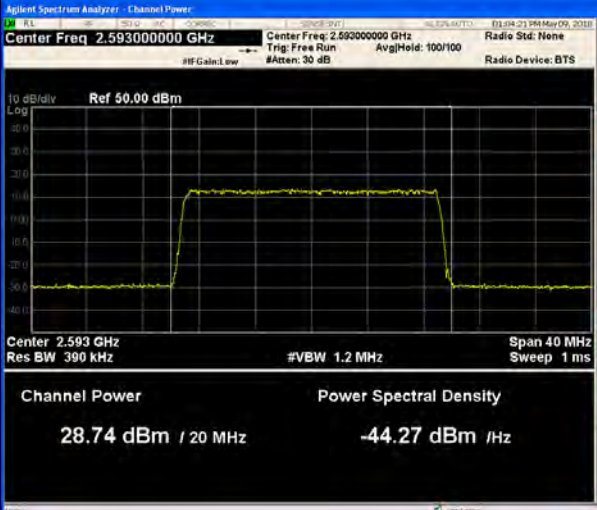
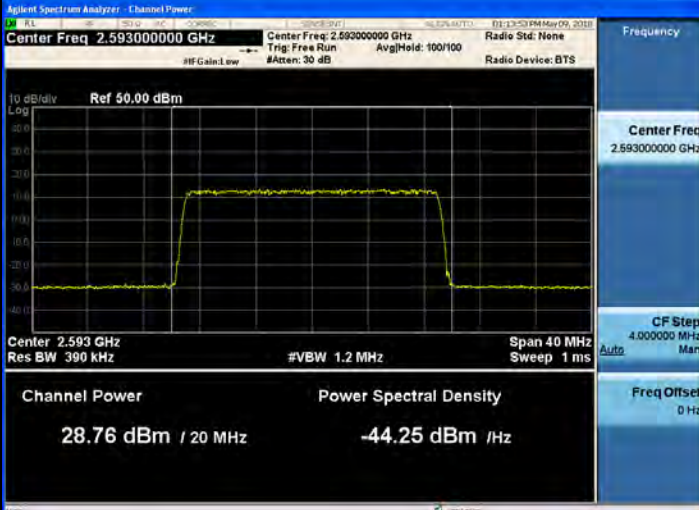


Modulation: 256QAM

Channel: Middle



Port 1

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

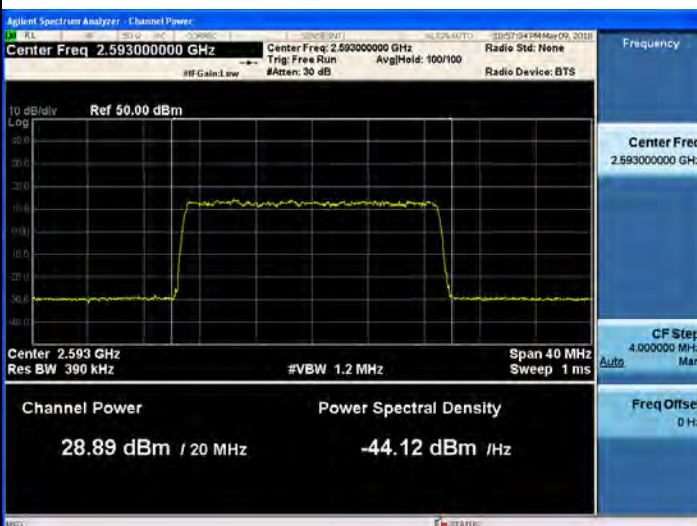
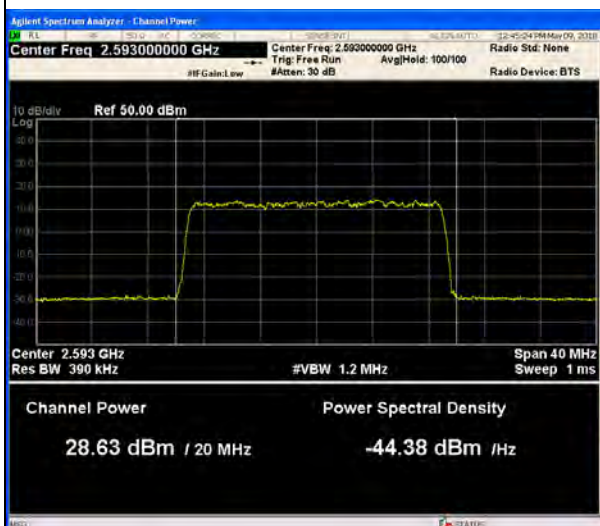
Port 2

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

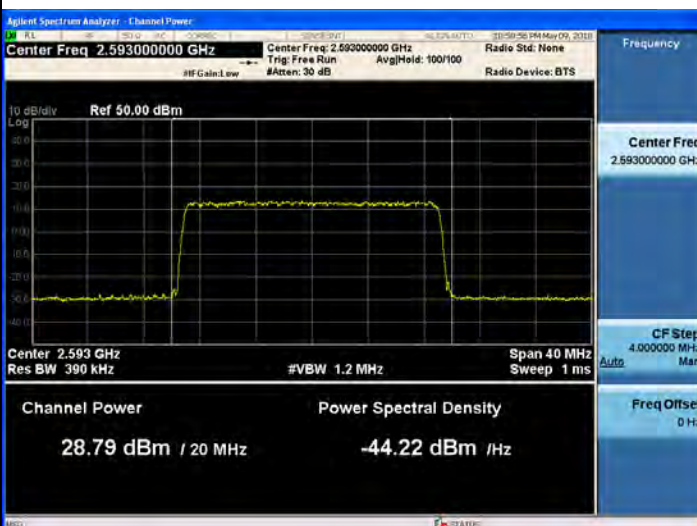
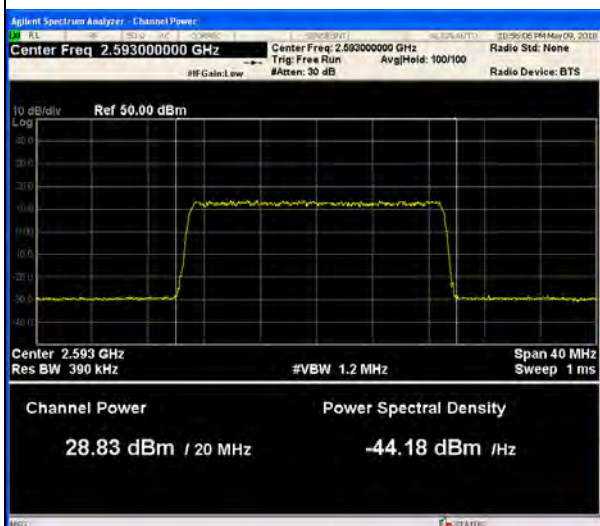


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



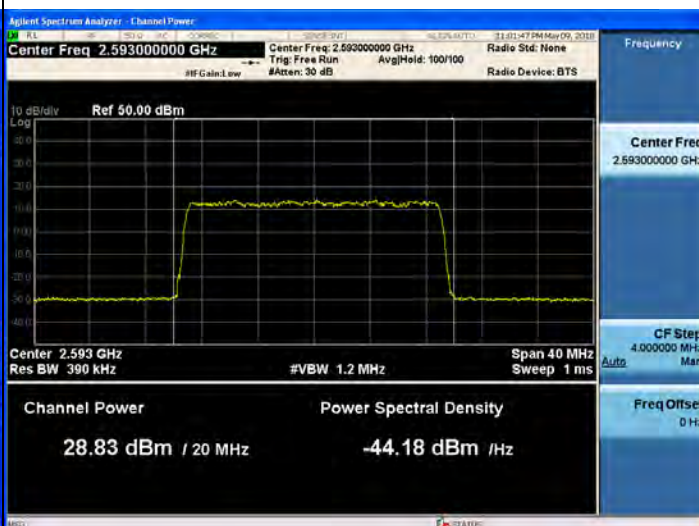
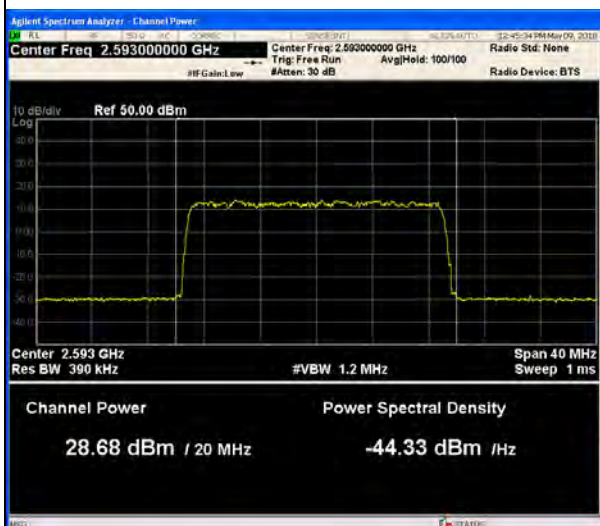
Port 3

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

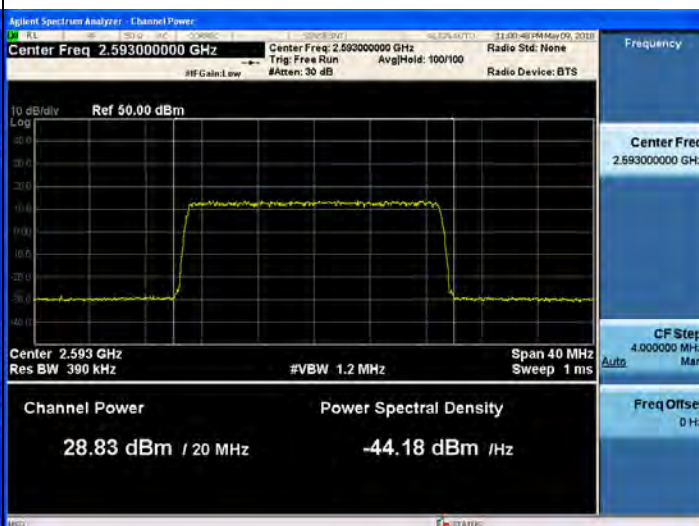
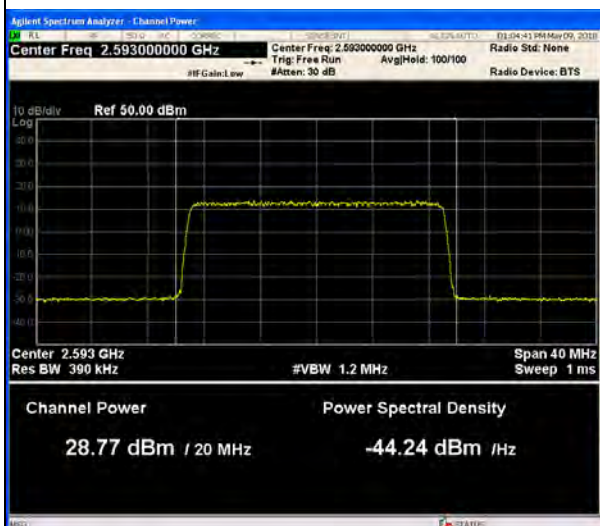


Modulation: 64QAM

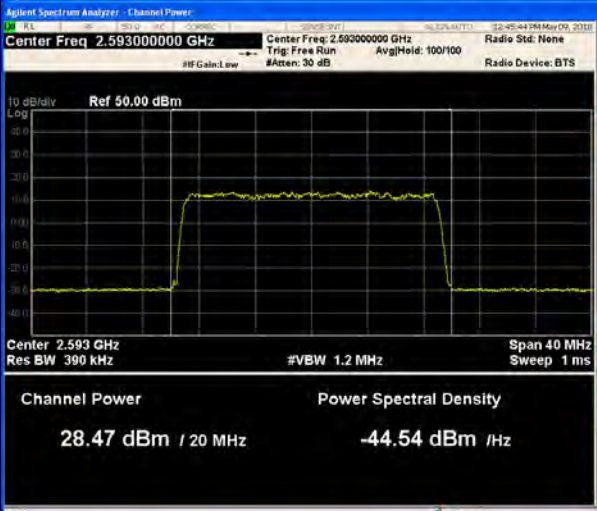
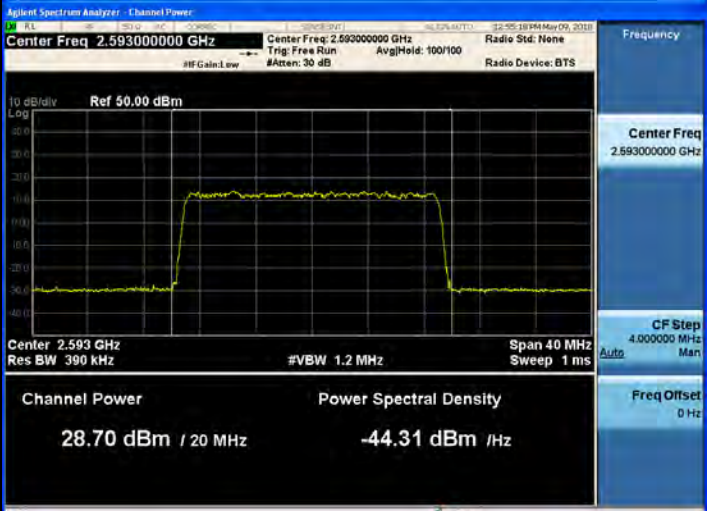
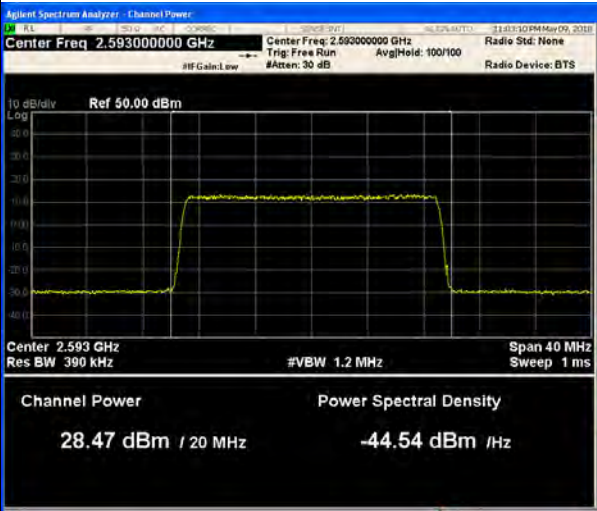
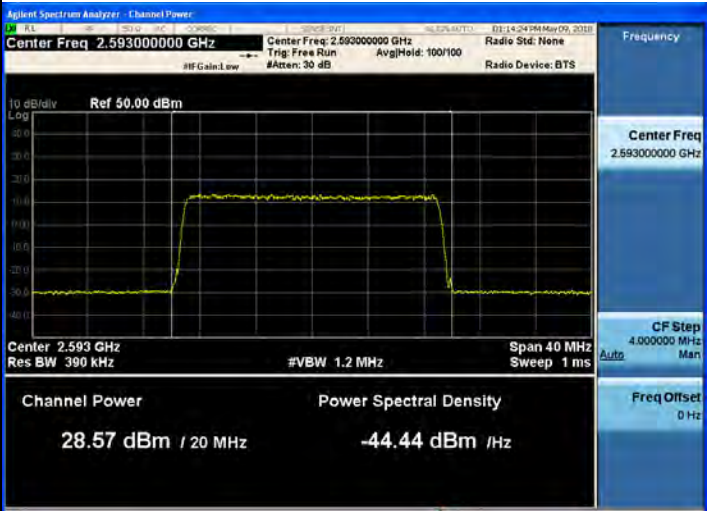
Channel: Middle

Modulation: 256QAM

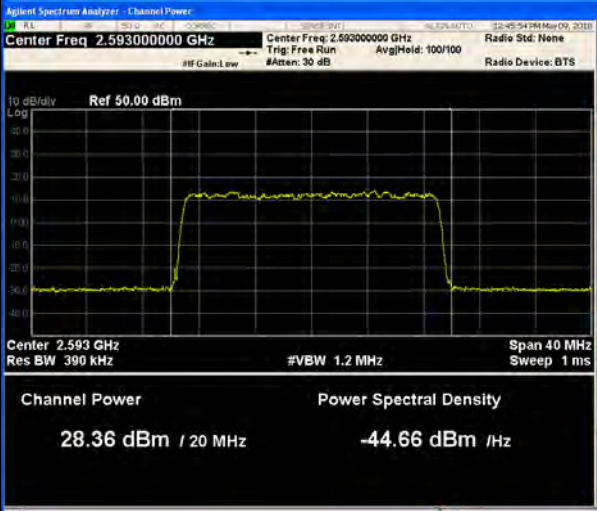
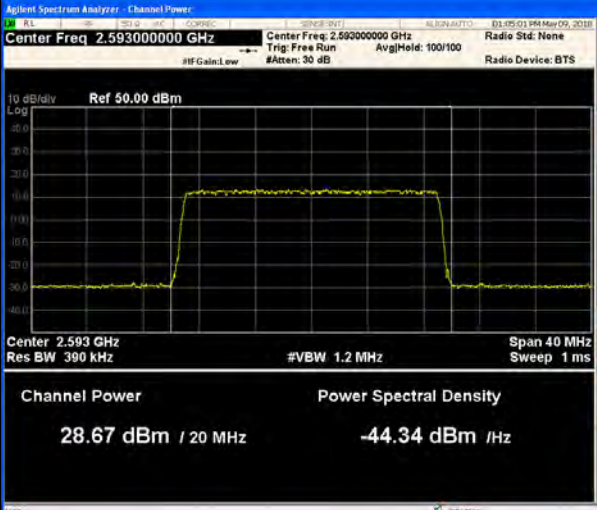
Channel: Middle



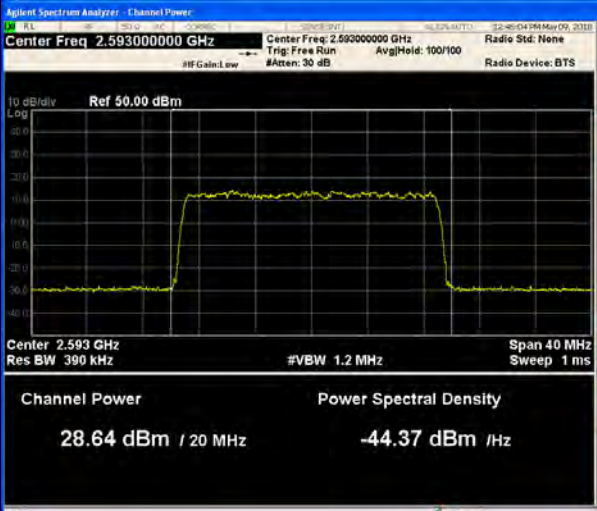
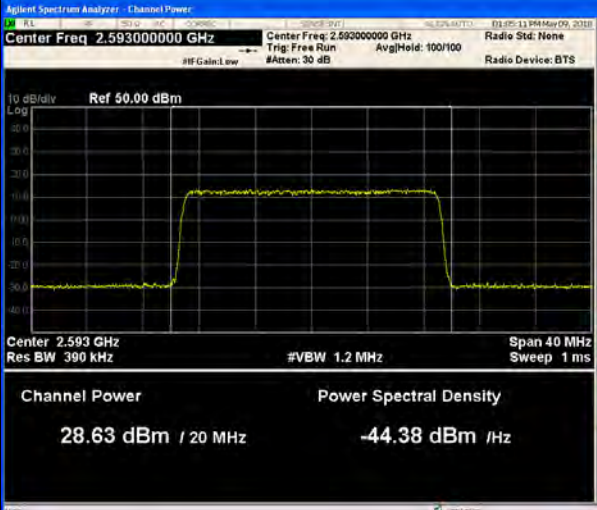
Port 4

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

Port 5

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

Port 6

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

Port 7

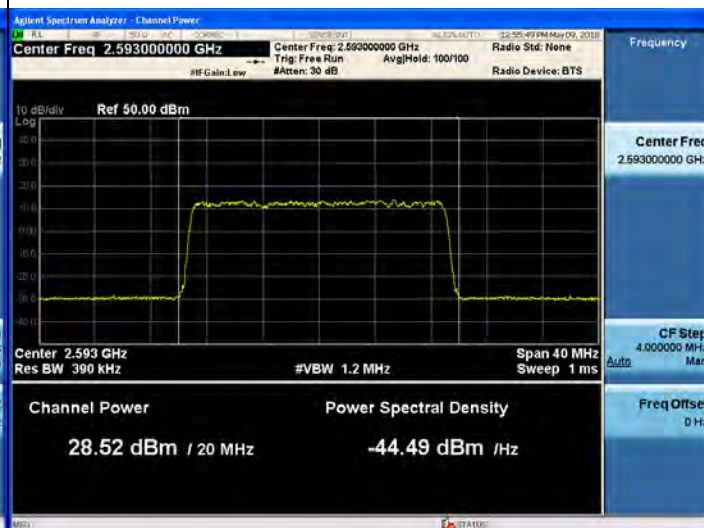
Modulation: QPSK

Channel: Middle



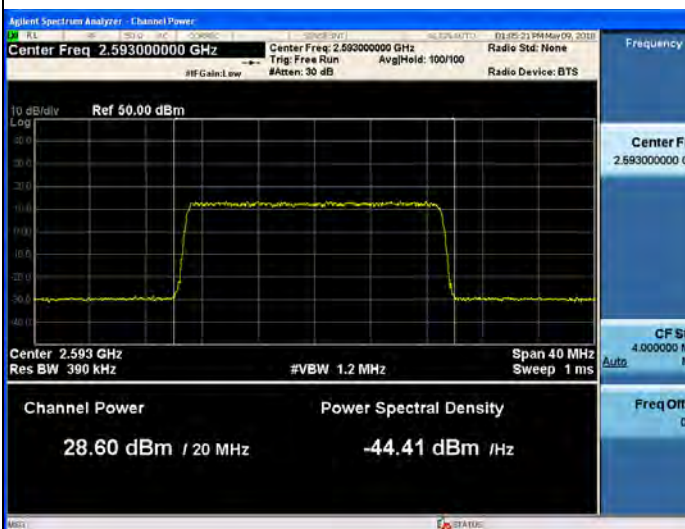
Modulation: 16QAM

Channel: Middle



Modulation: 64QAM

Channel: Middle

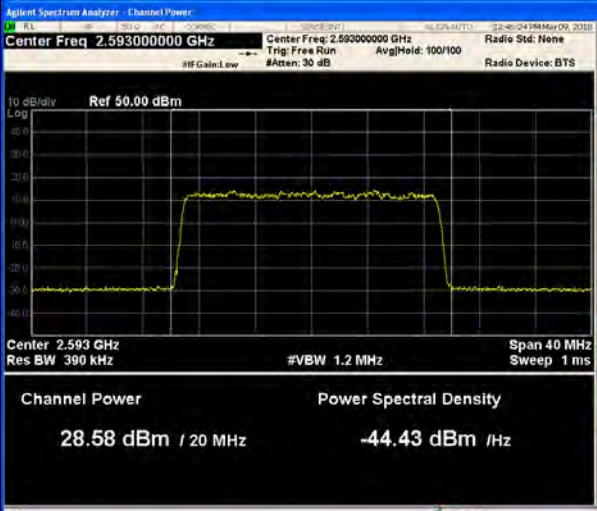
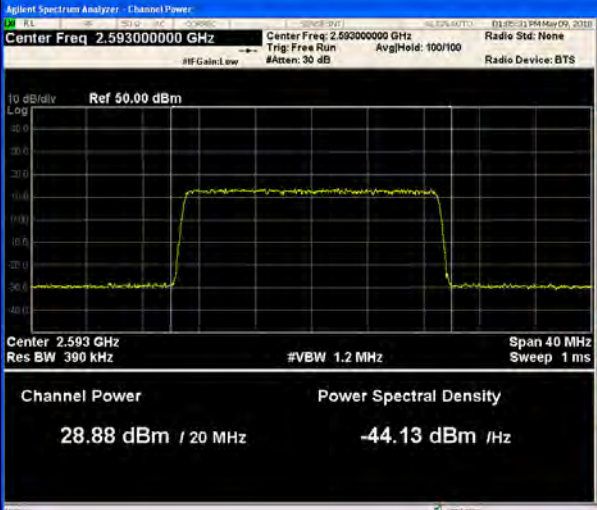


Modulation: 256QAM

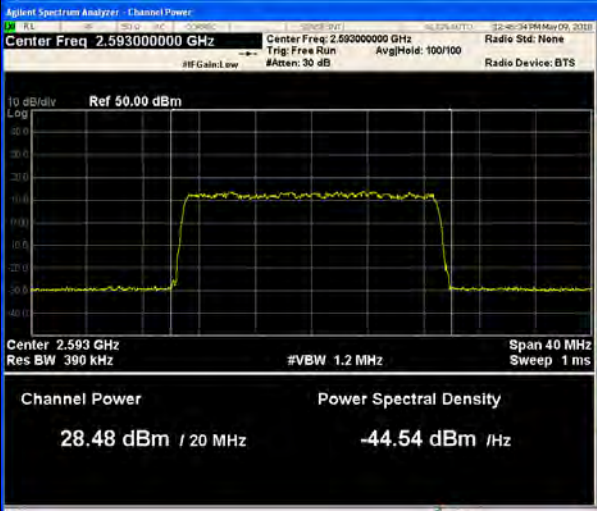
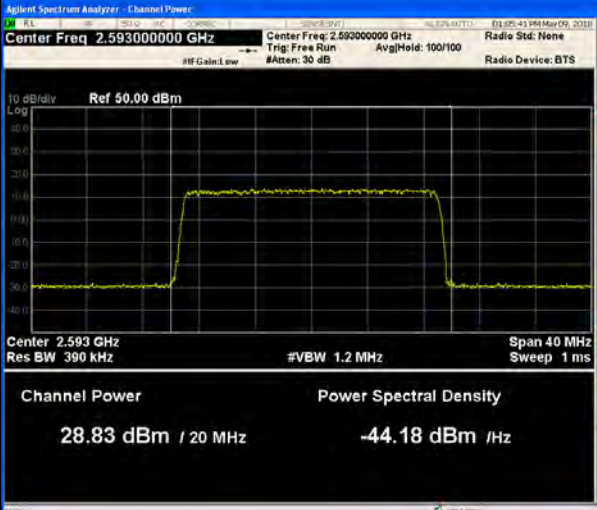
Channel: Middle



Port 8

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

Port 9

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

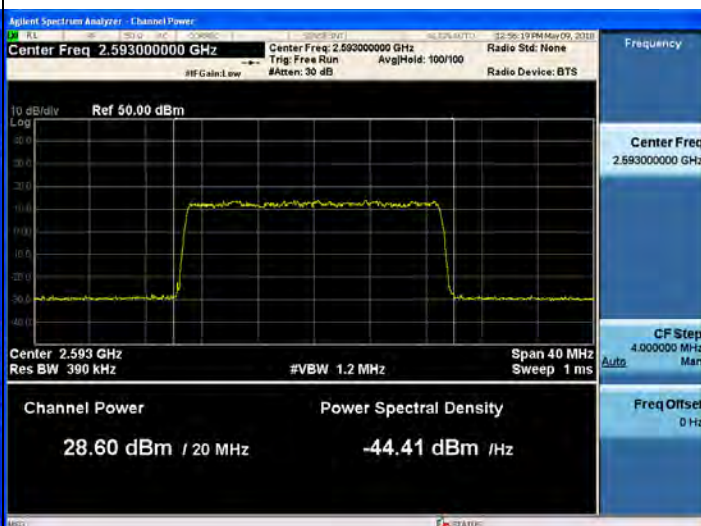
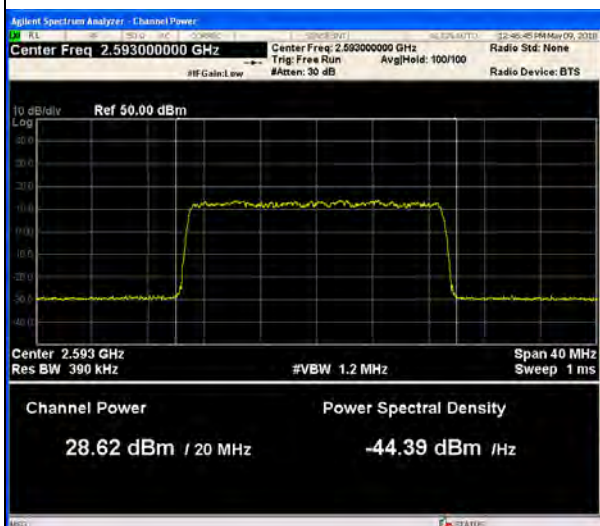
Port 10

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

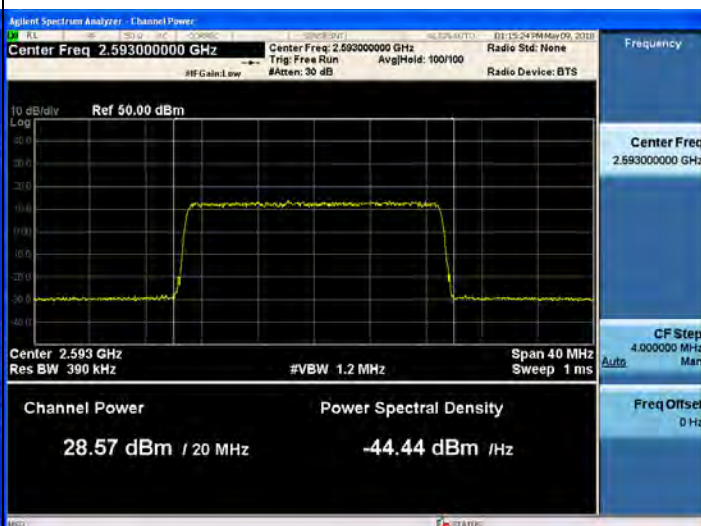
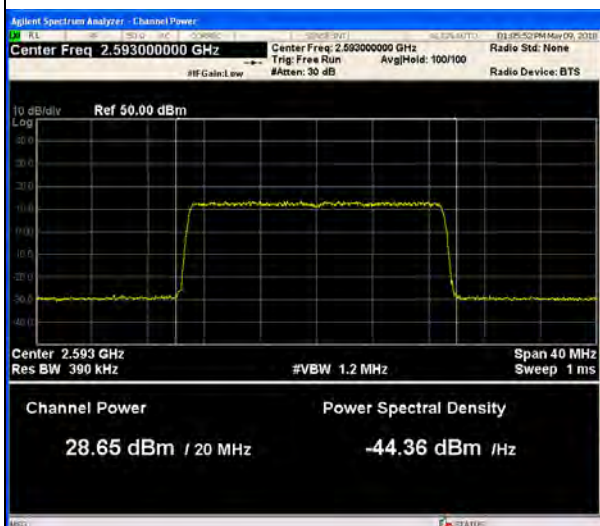


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



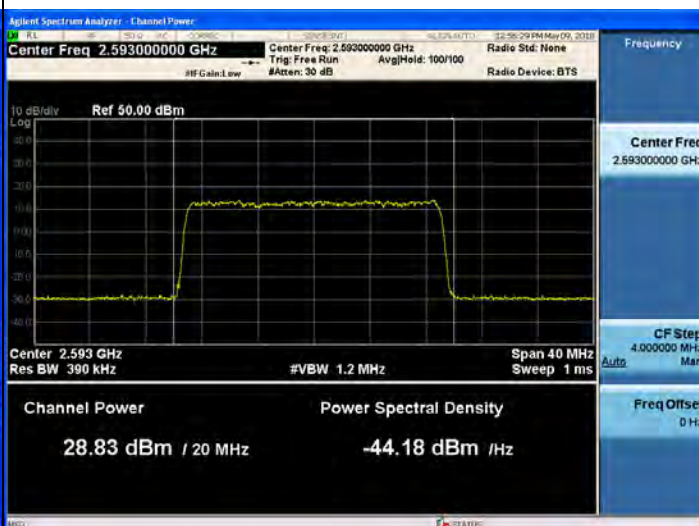
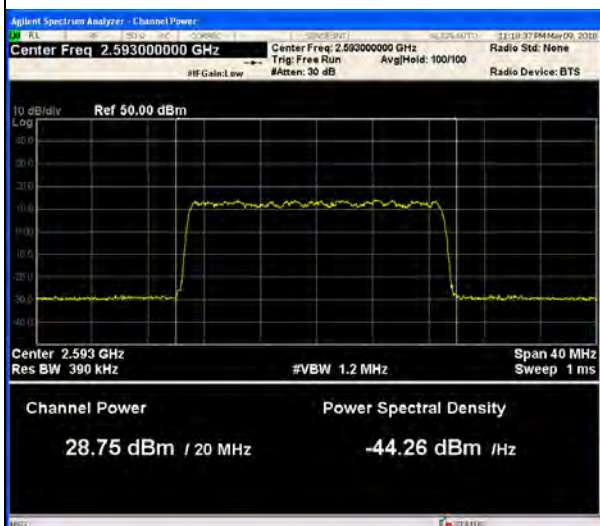
Port 11

Modulation: QPSK

Modulation: 16QAM

Channel: Middle

Channel: Middle

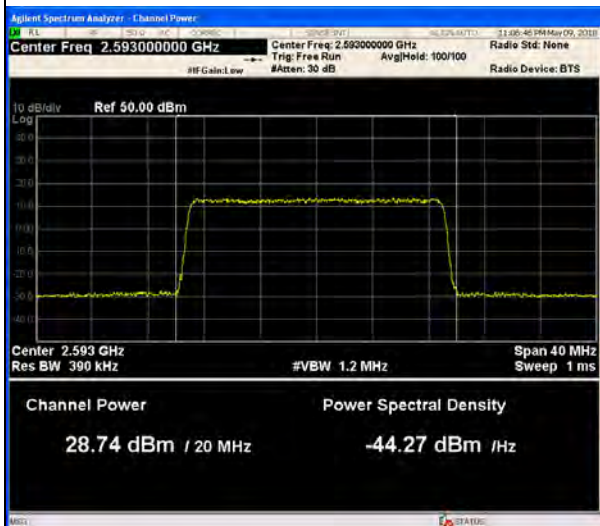


Modulation: 64QAM

Modulation: 256QAM

Channel: Middle

Channel: Middle



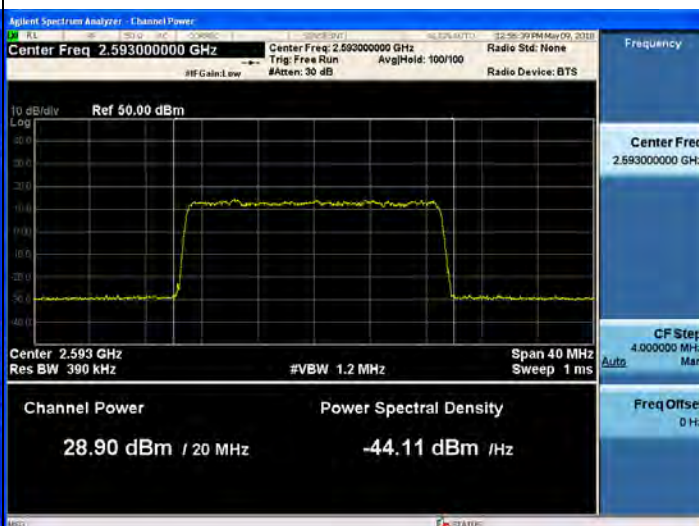
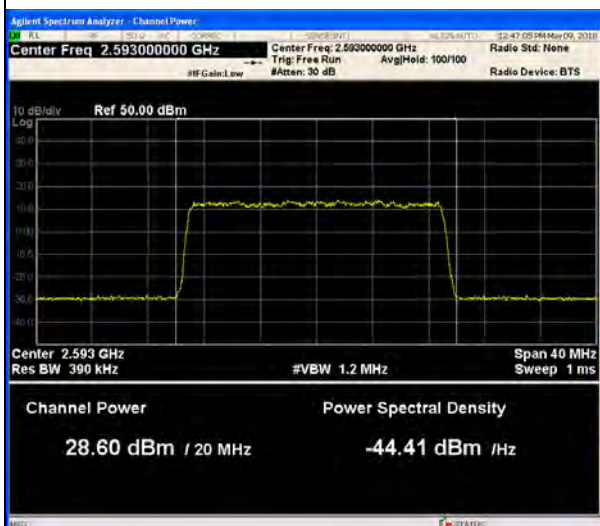
Port 12

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

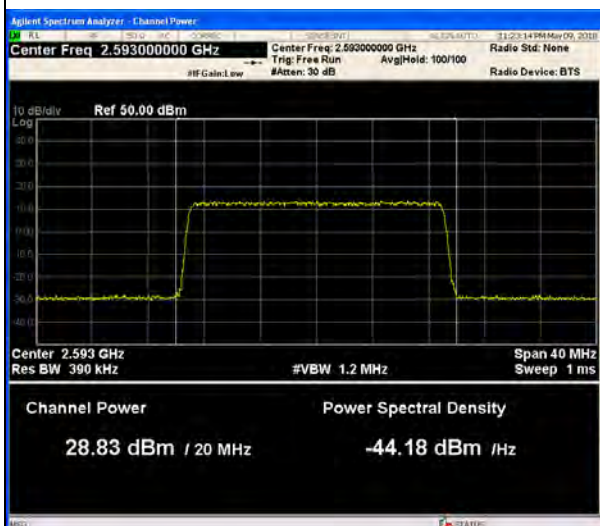


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



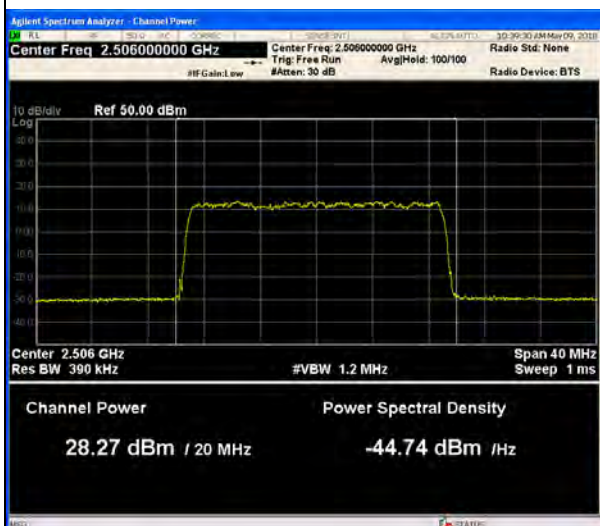
Port 13

Modulation: QPSK

Channel: Low

Modulation: 16QAM

Channel: Middle

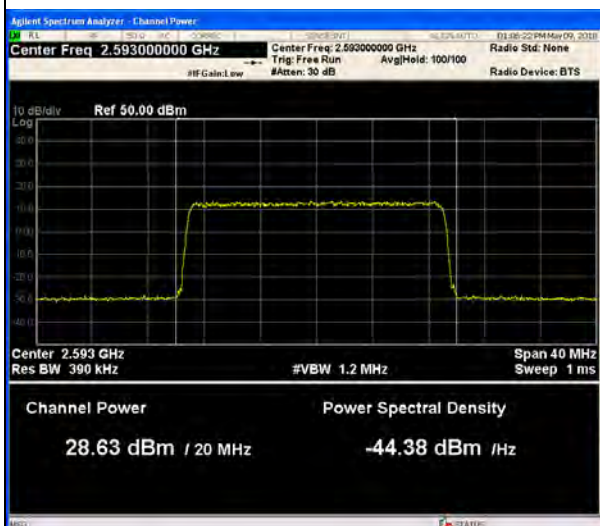


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



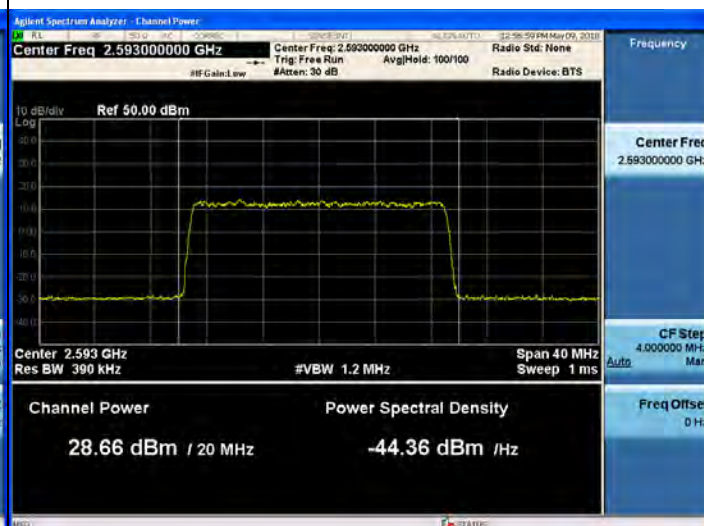
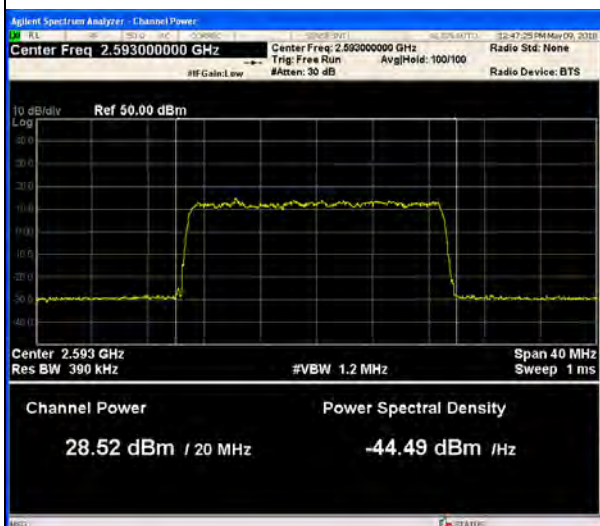
Port 14

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

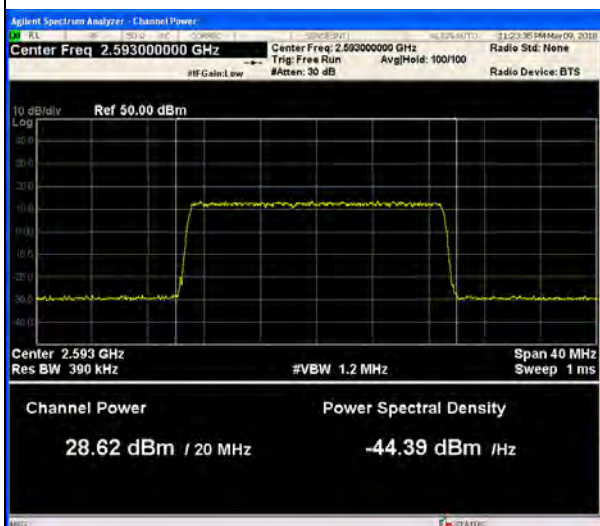


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



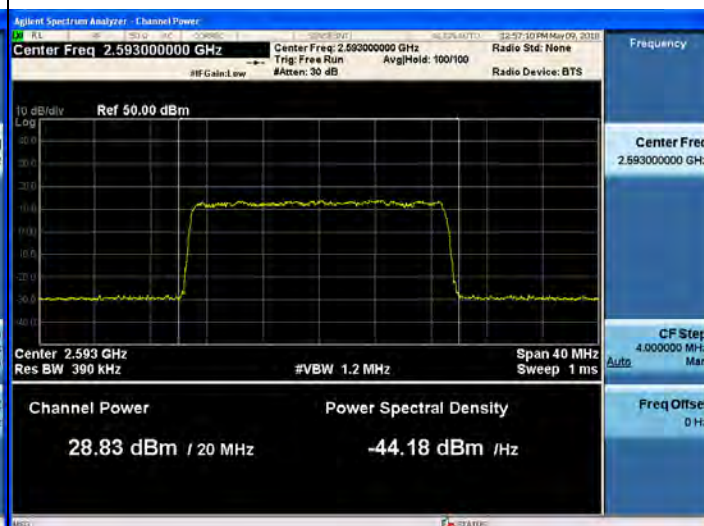
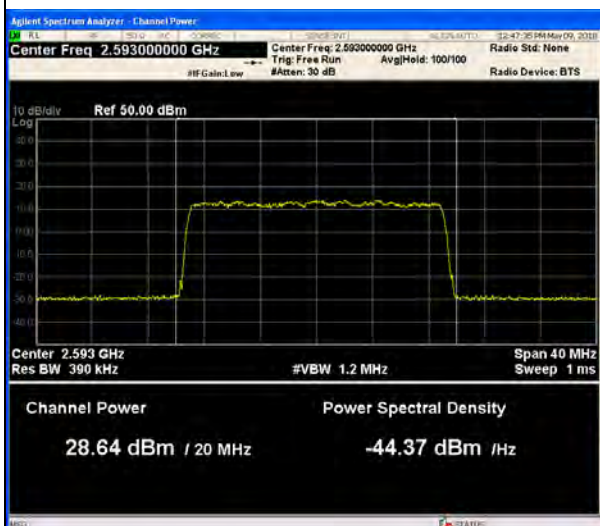
Port 15

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

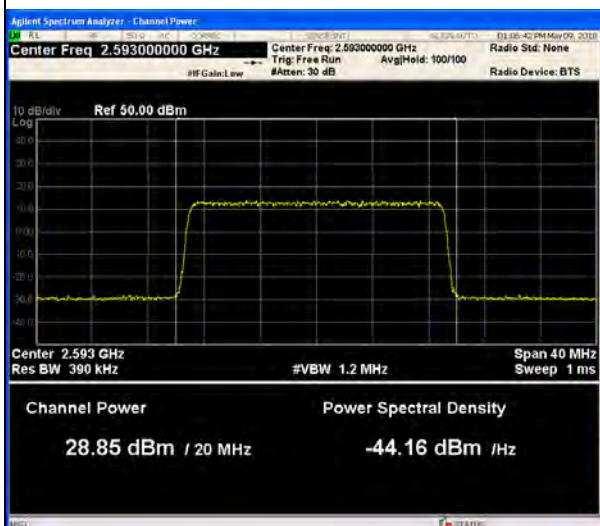


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



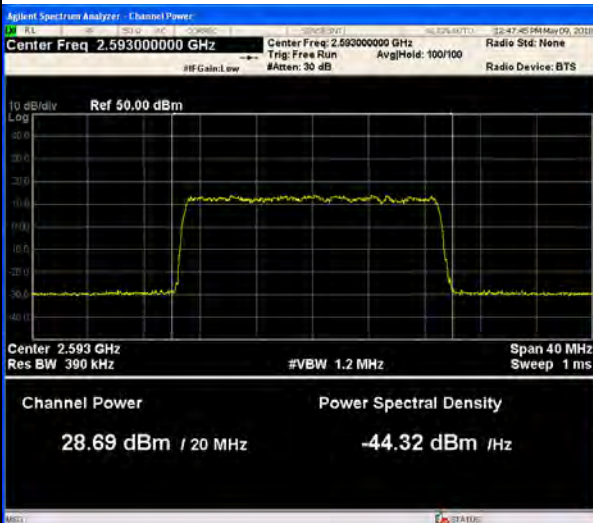
Port 16

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

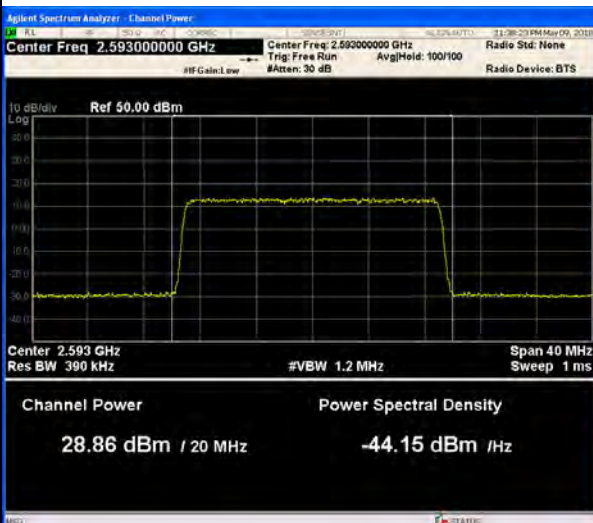


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



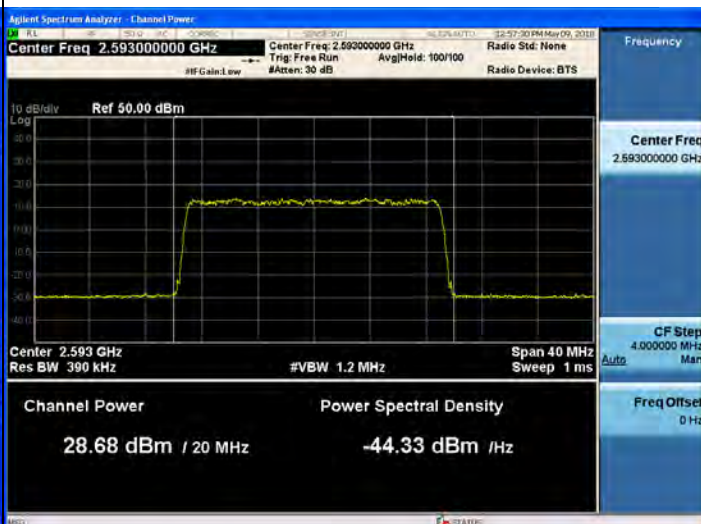
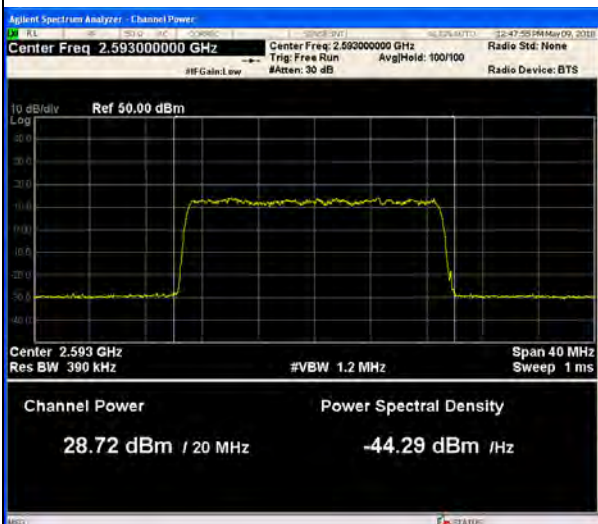
Port 17

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

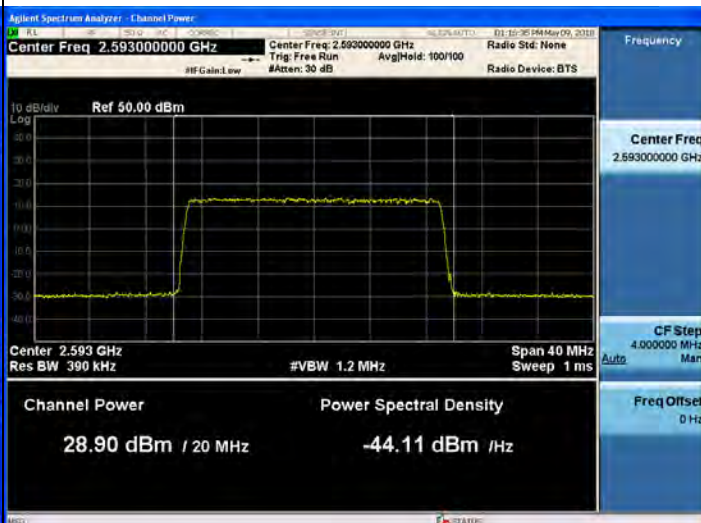
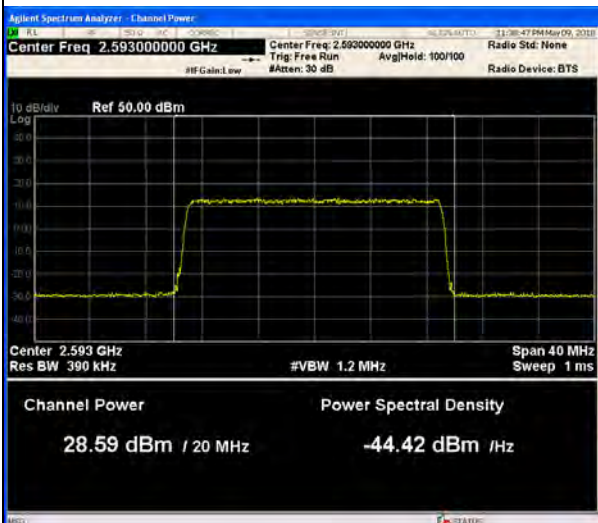


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



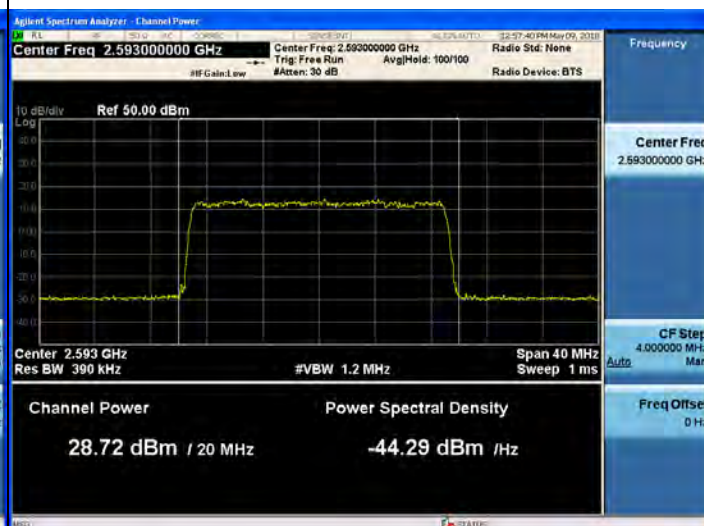
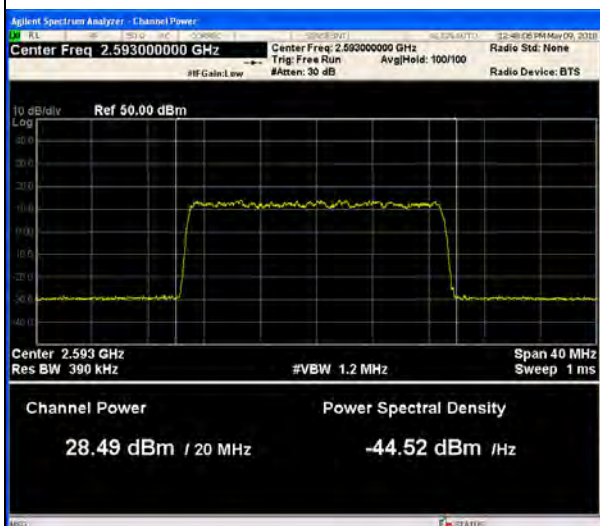
Port 18

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

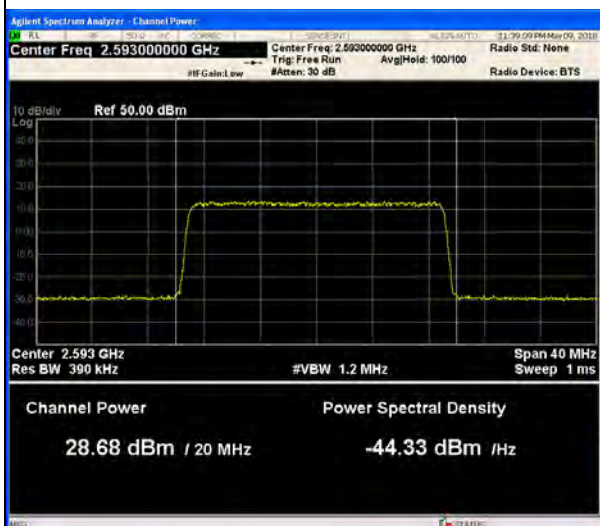


Modulation: 64QAM

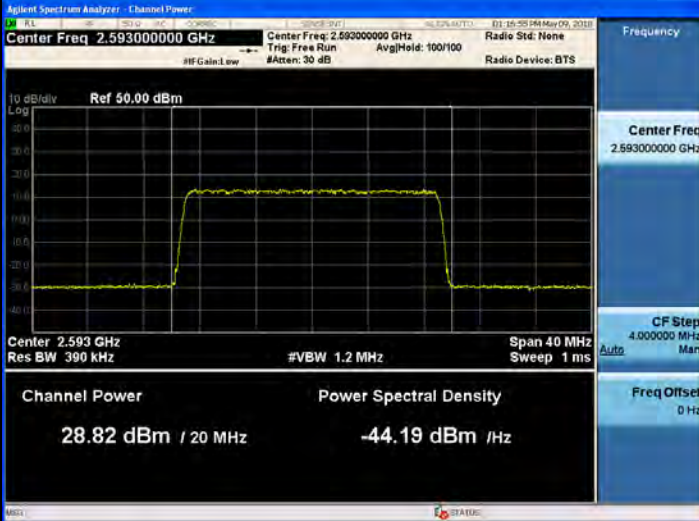
Channel: Middle

Modulation: 256QAM

Channel: Middle



Port 19

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

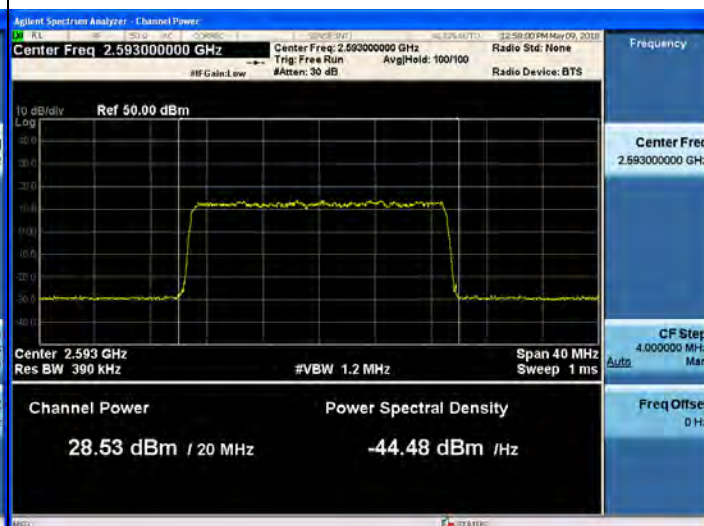
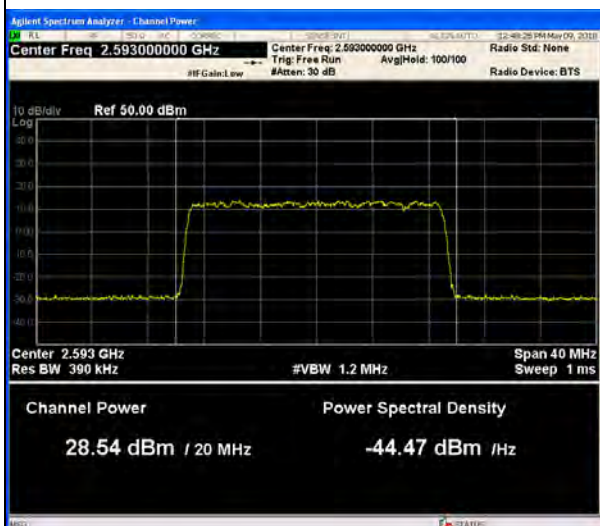
Port 20

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

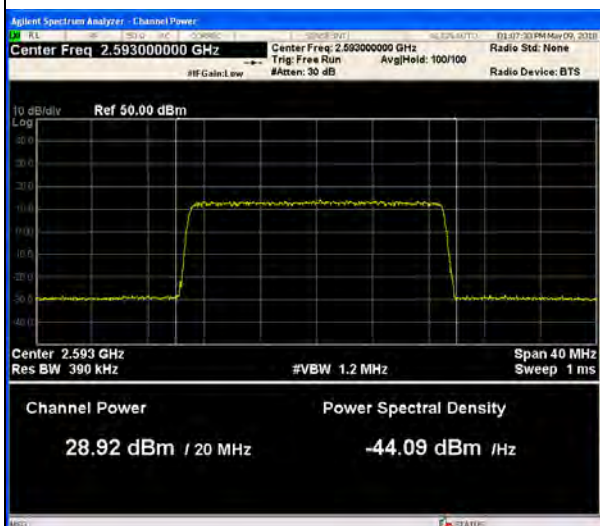


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



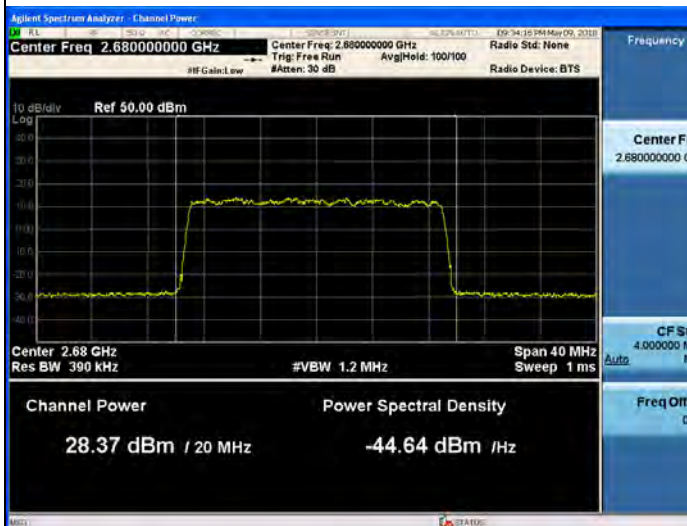
Port 21

Modulation: QPSK

Channel: High

Modulation: 16QAM

Channel: Middle

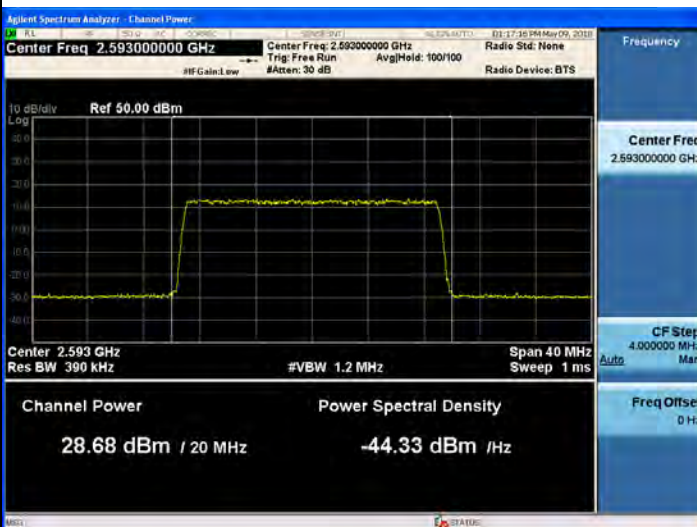


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



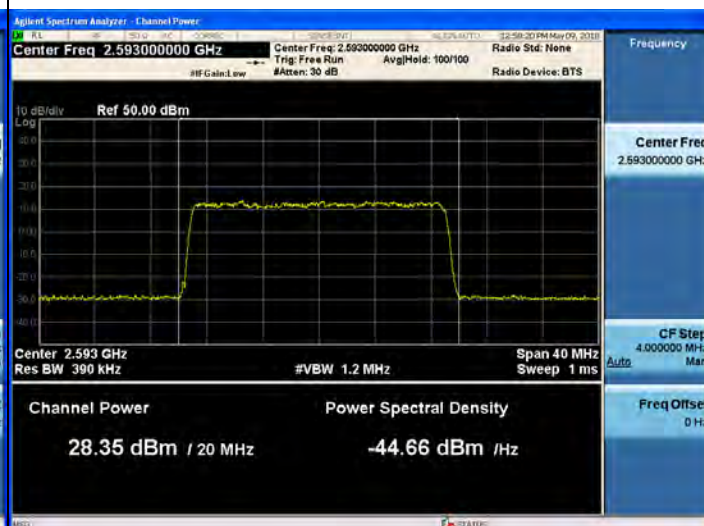
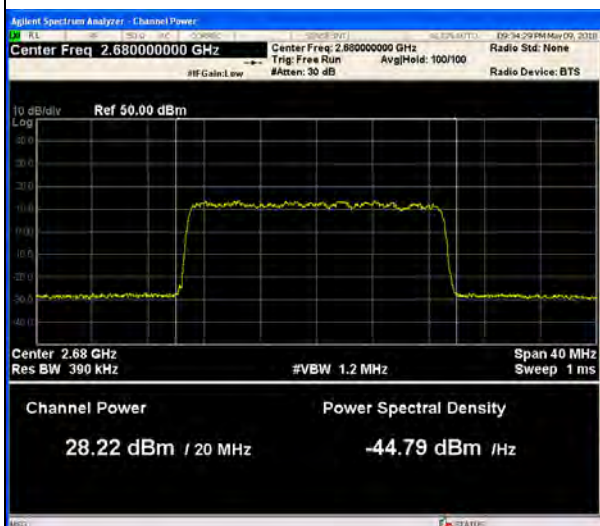
Port 22

Modulation: QPSK

Channel: High

Modulation: 16QAM

Channel: Middle

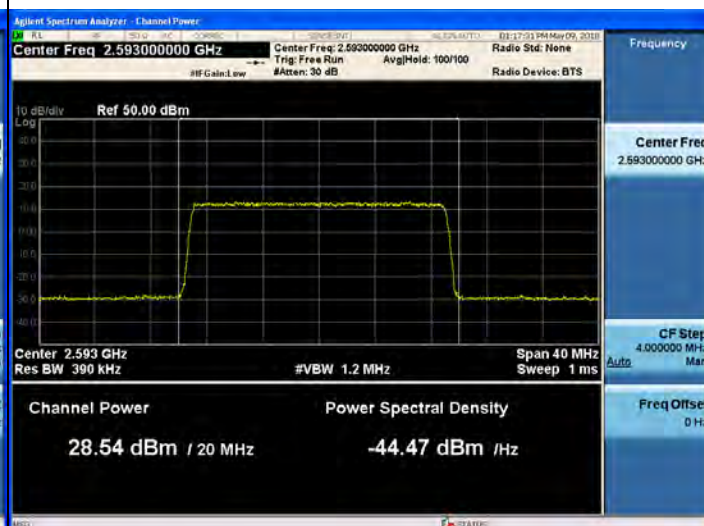
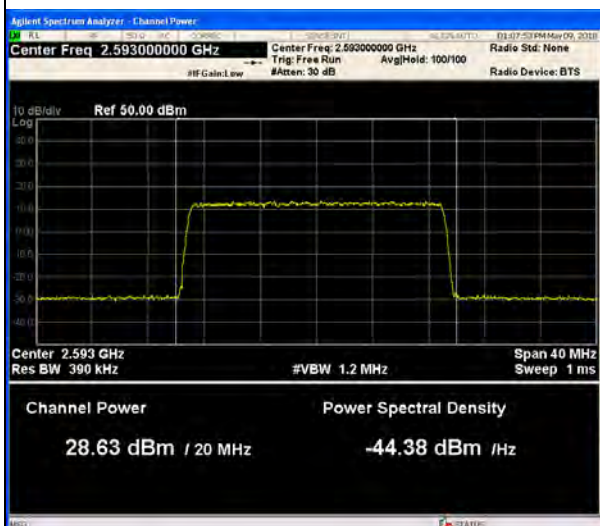


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



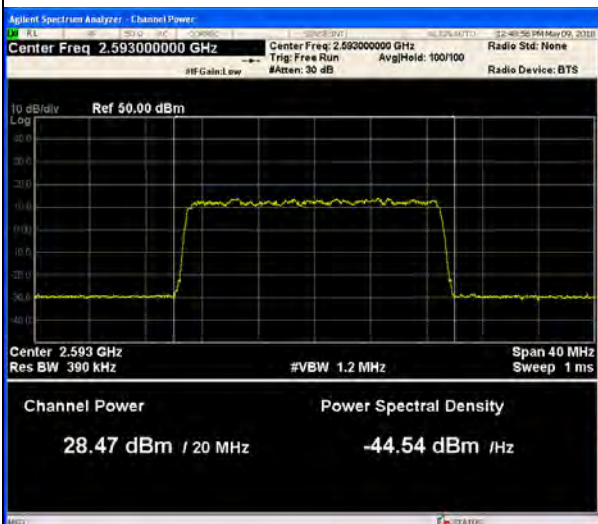
Port 23

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: High

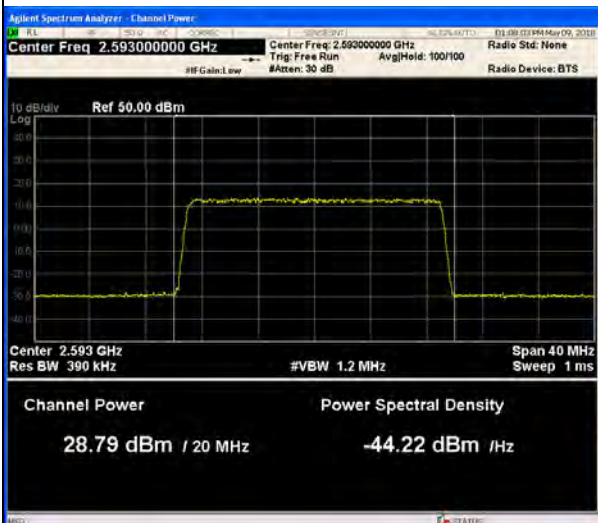


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



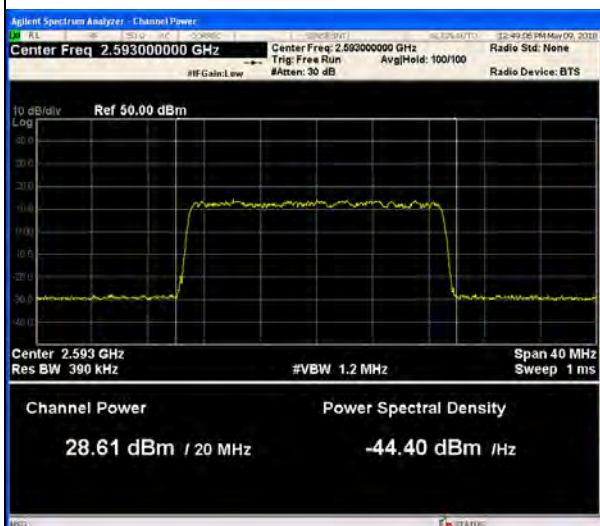
Port 24

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

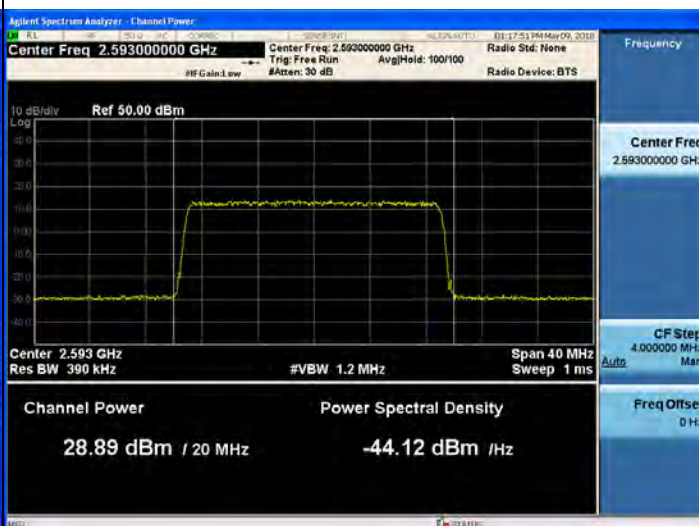
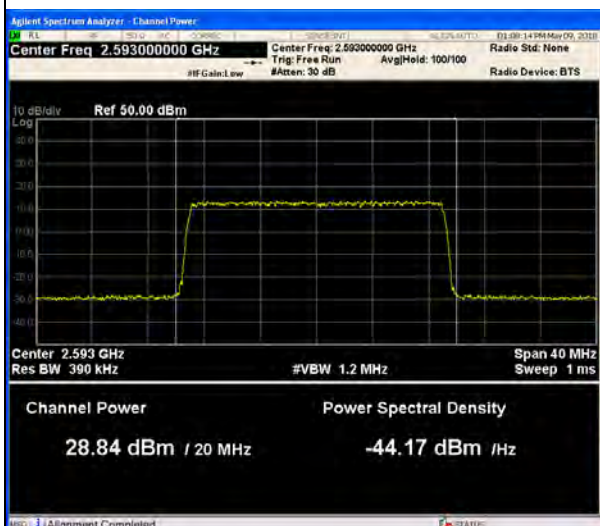


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



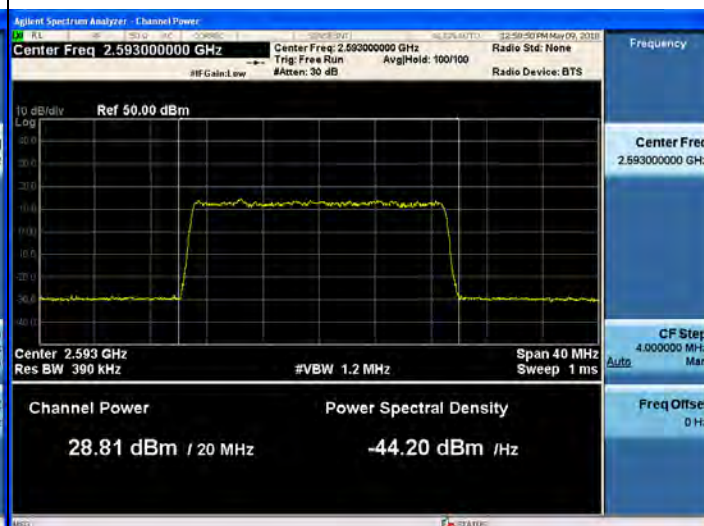
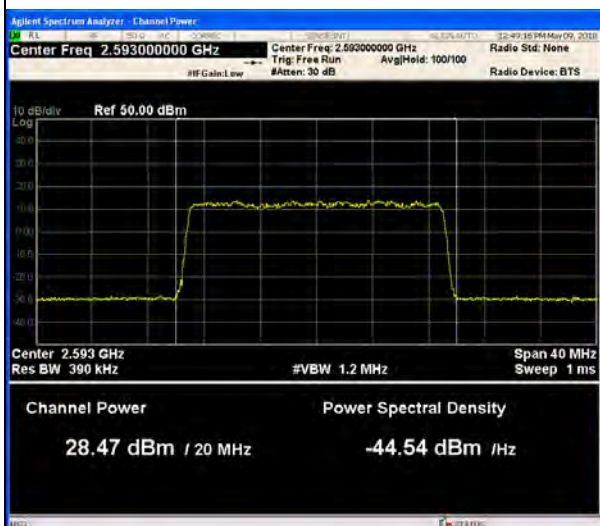
Port 25

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

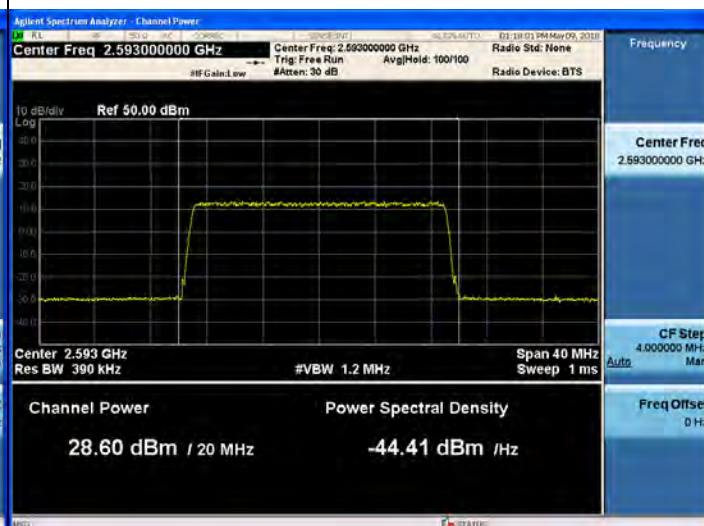
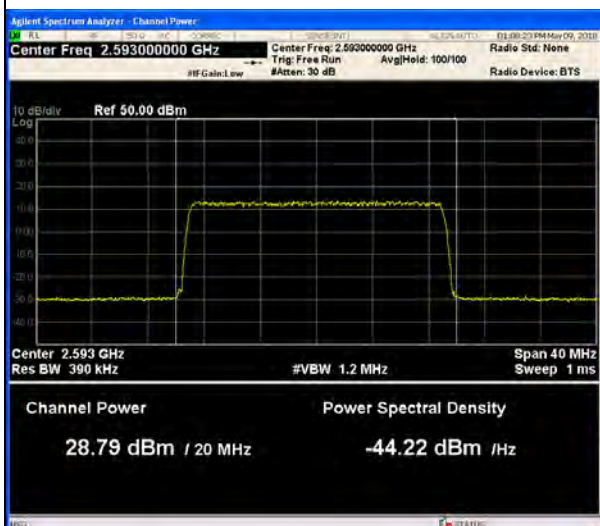


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



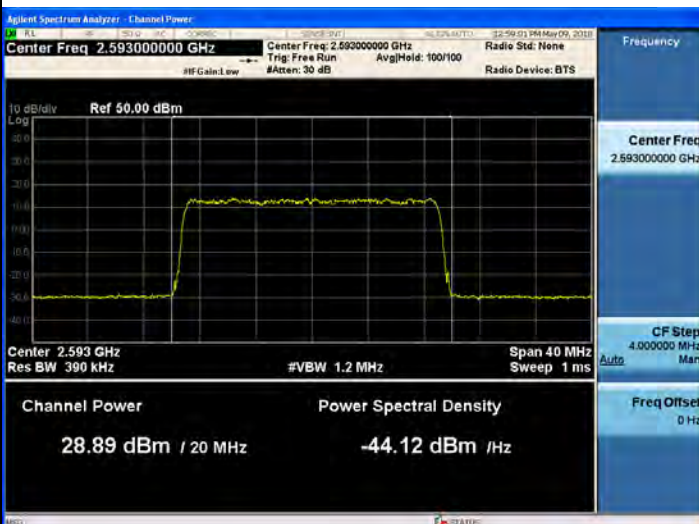
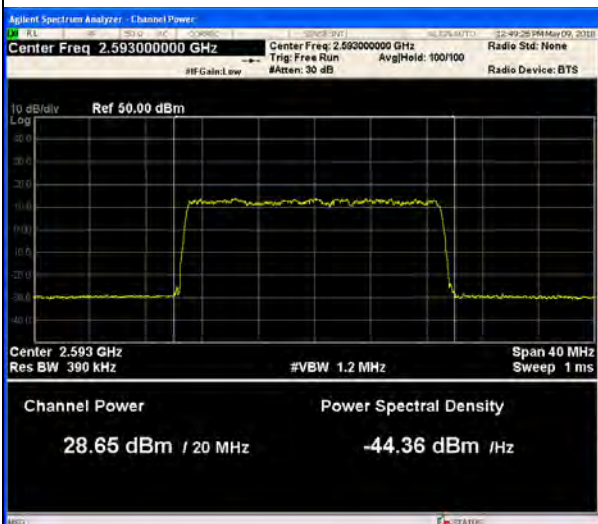
Port 26

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

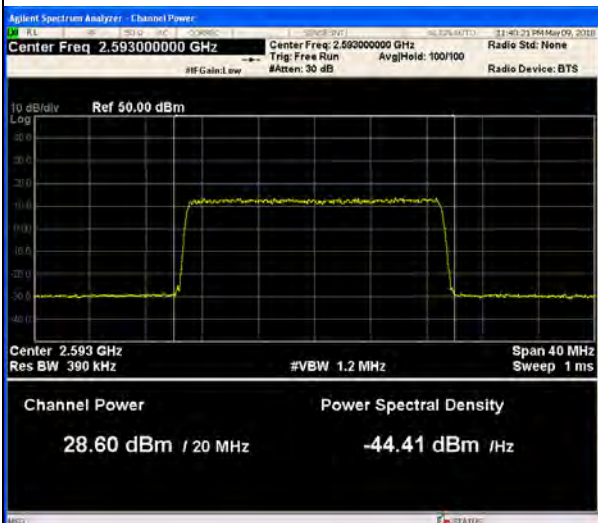


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



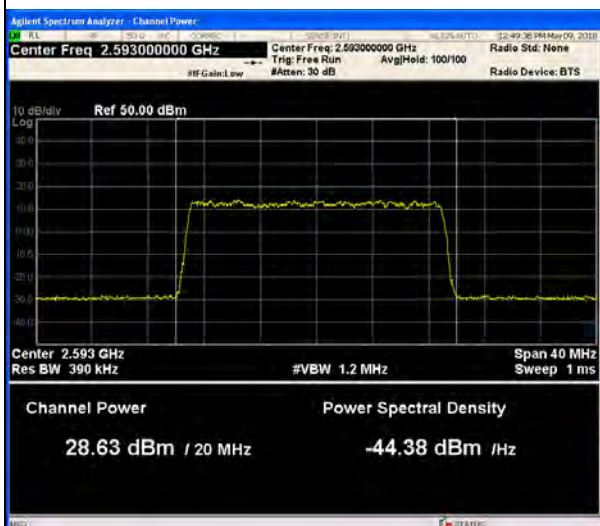
Port 27

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: High

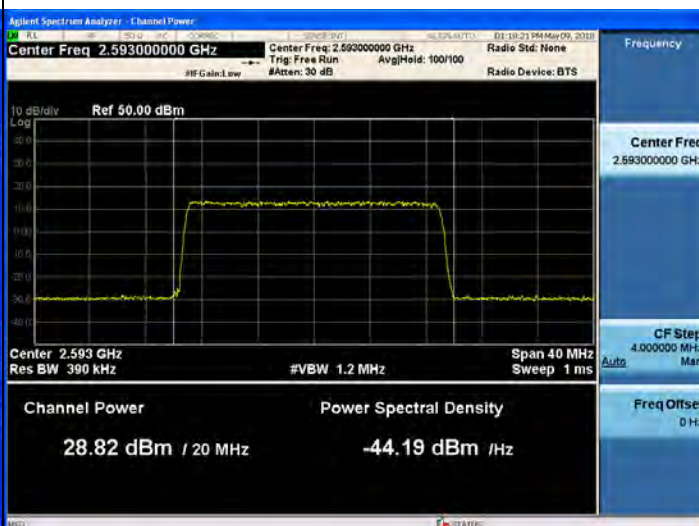
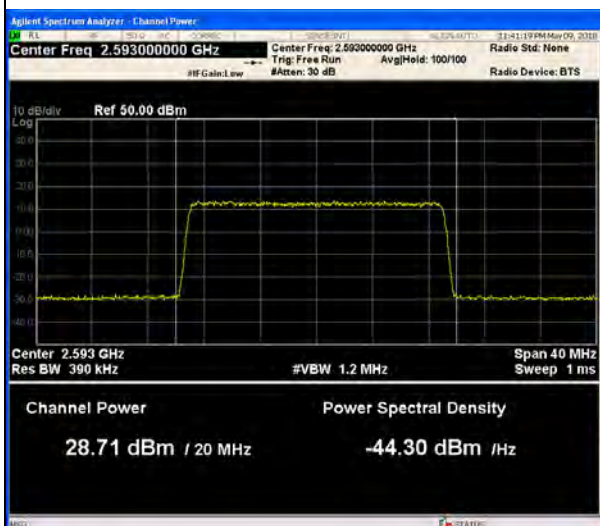


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



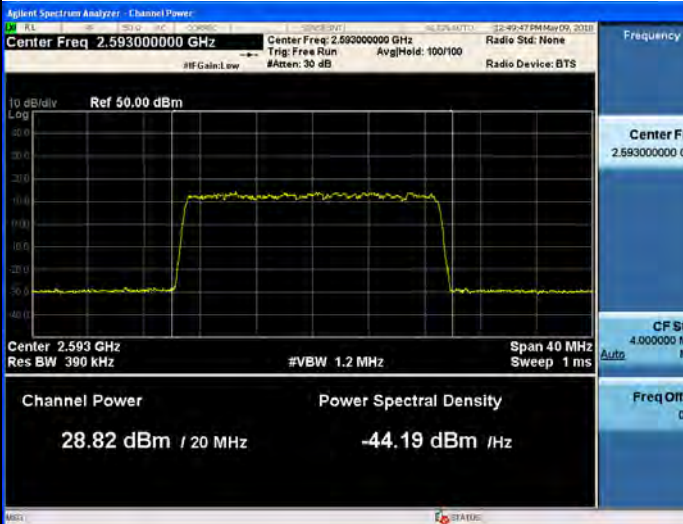
Port 28

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: High

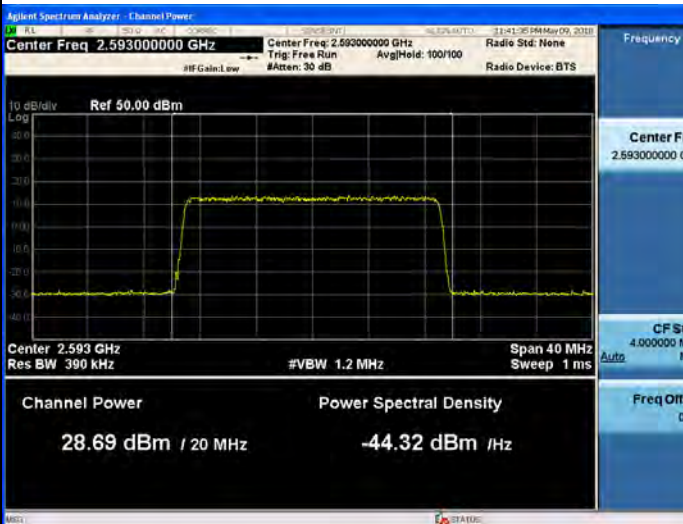


Modulation: 64QAM

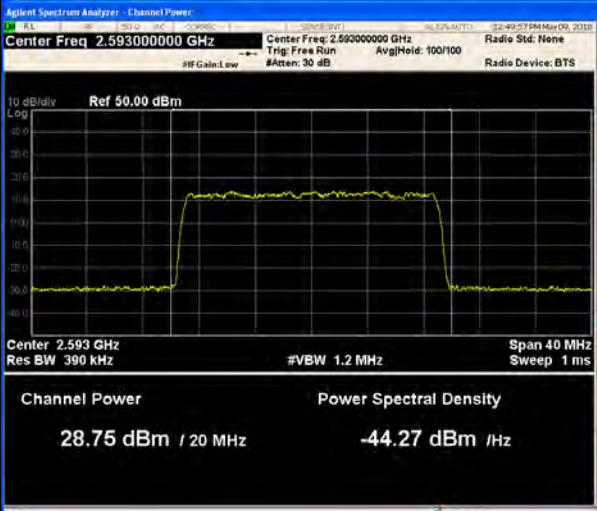
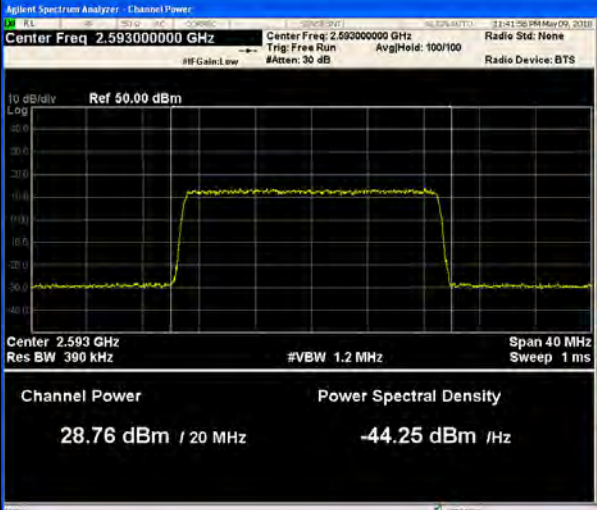
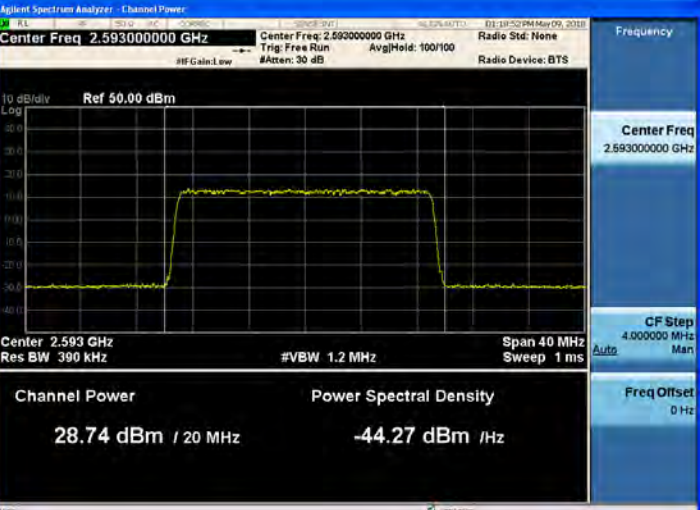
Channel: Middle

Modulation: 256QAM

Channel: High



Port 29

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

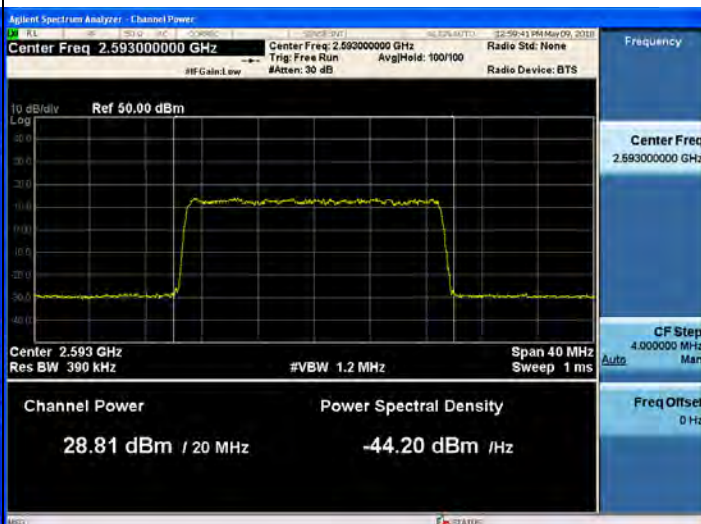
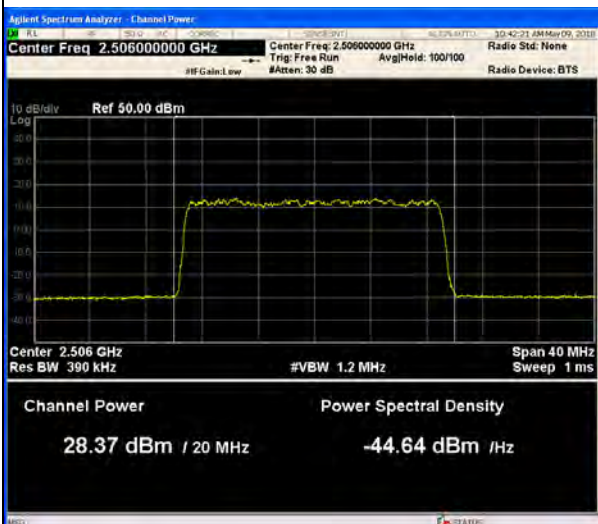
Port 30

Modulation: QPSK

Channel: Low

Modulation: 16QAM

Channel: Middle

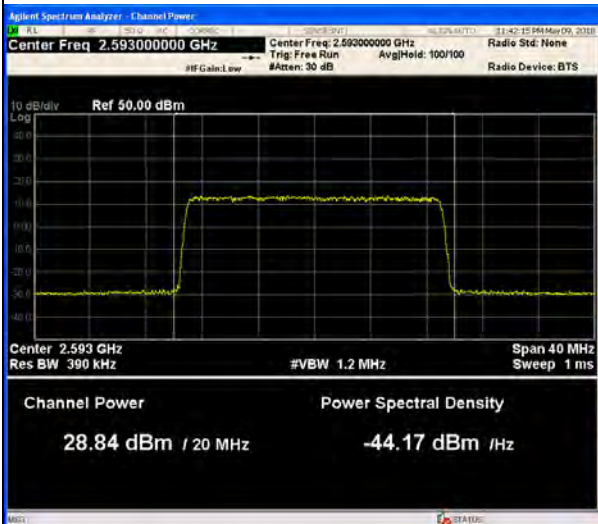


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Low



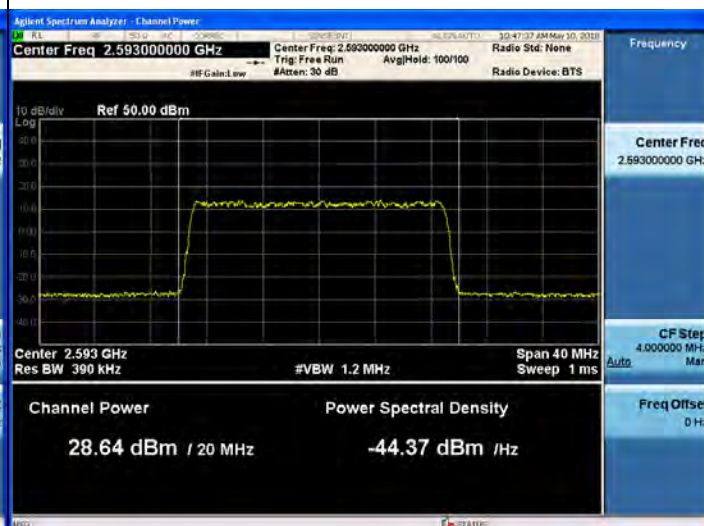
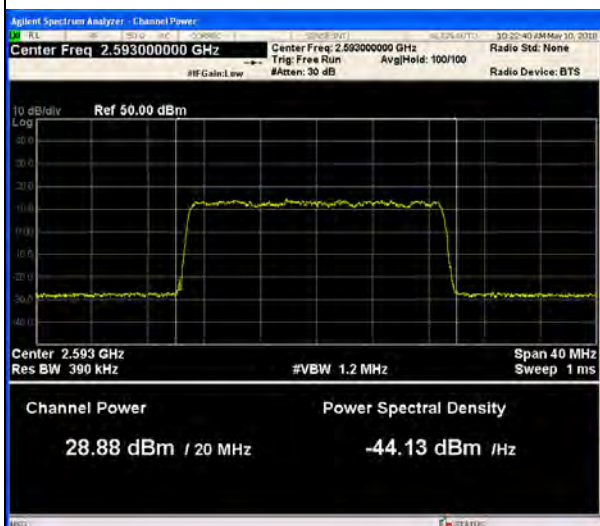
Port 31

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

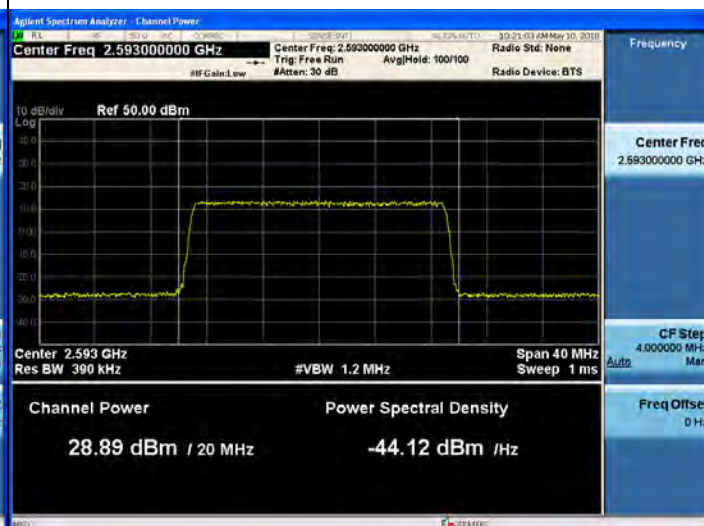
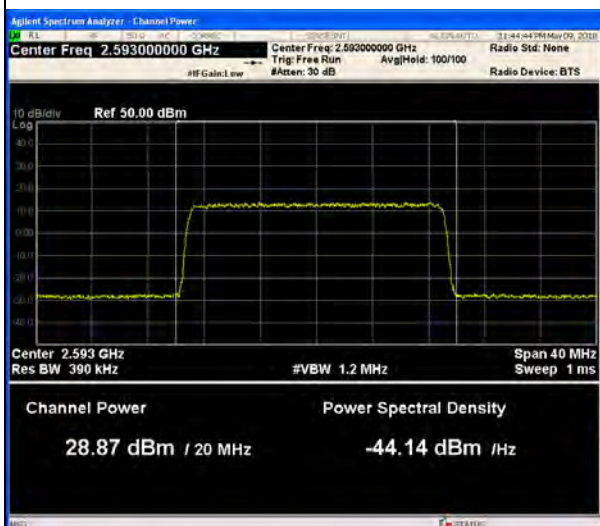


Modulation: 64QAM

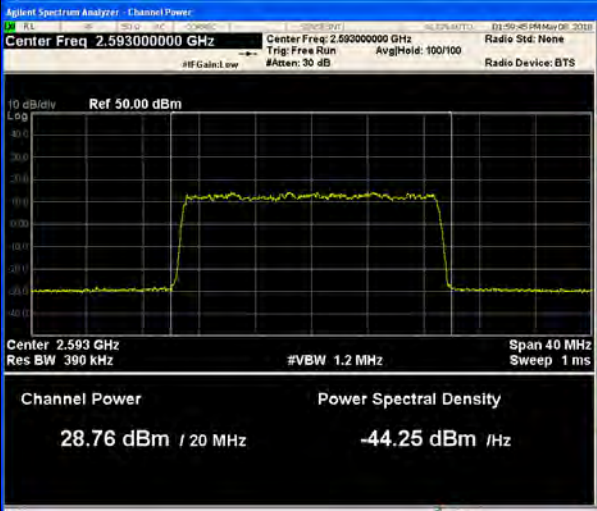
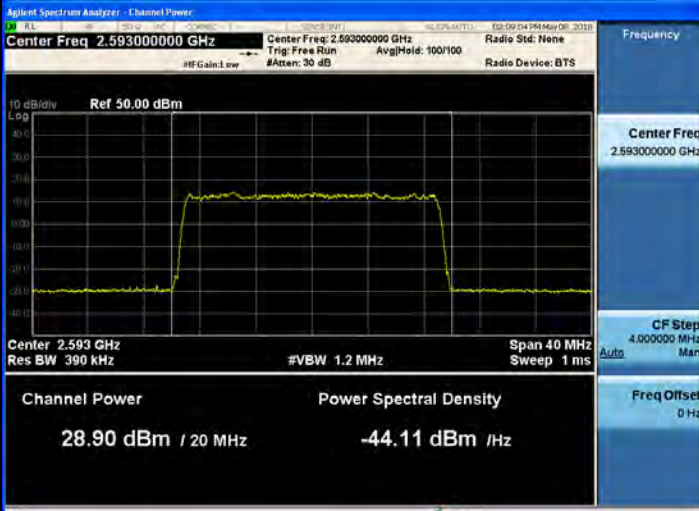
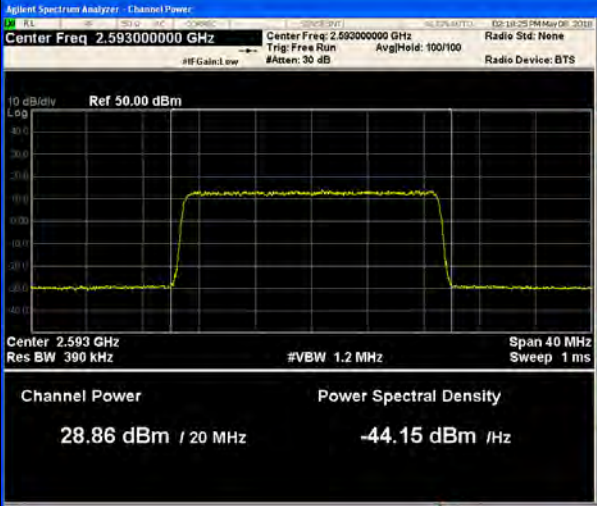
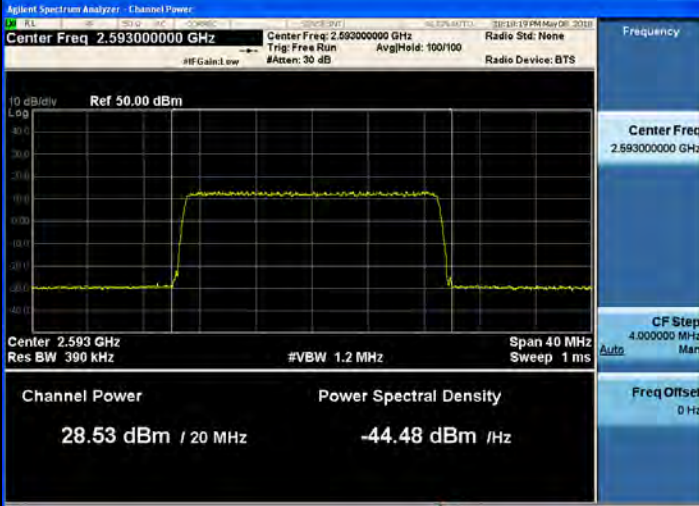
Channel: Middle

Modulation: 256QAM

Channel: Middle



Port 32

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

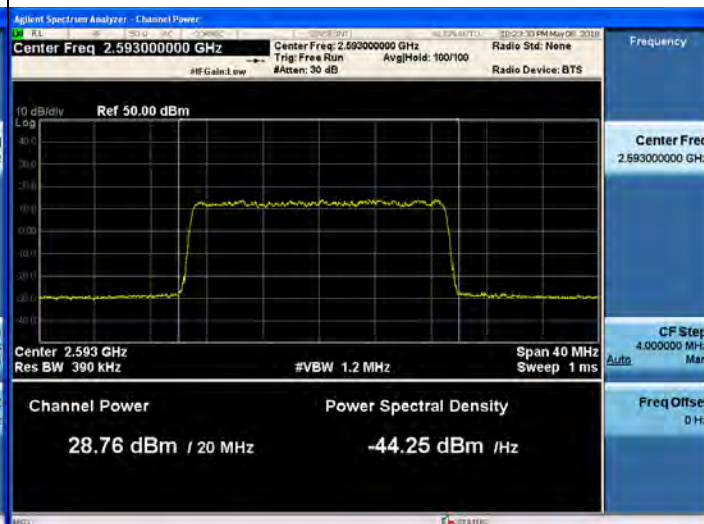
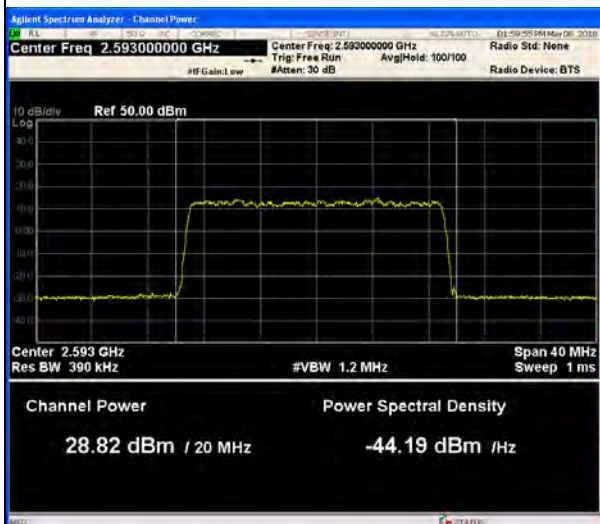
Port 33

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

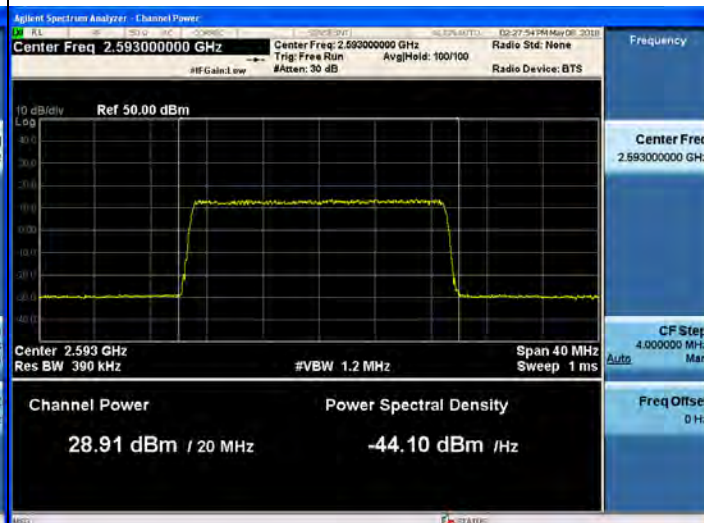
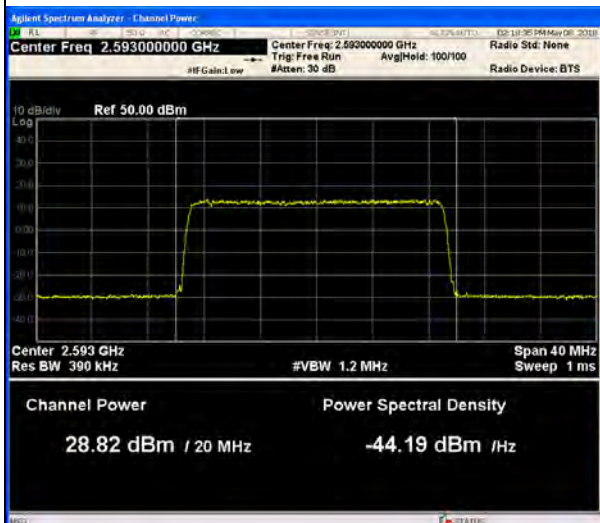


Modulation: 64QAM

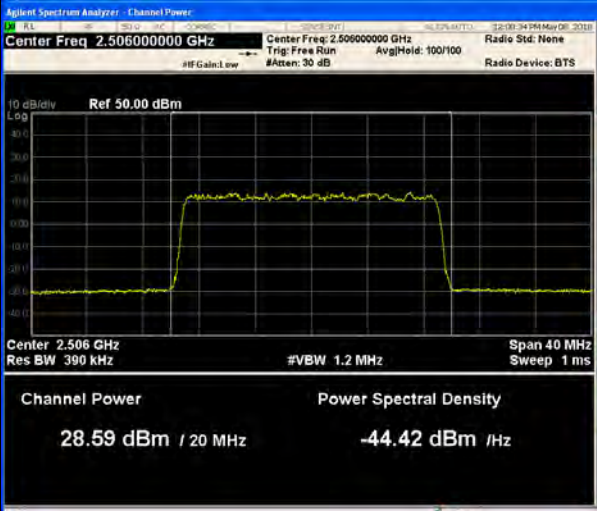
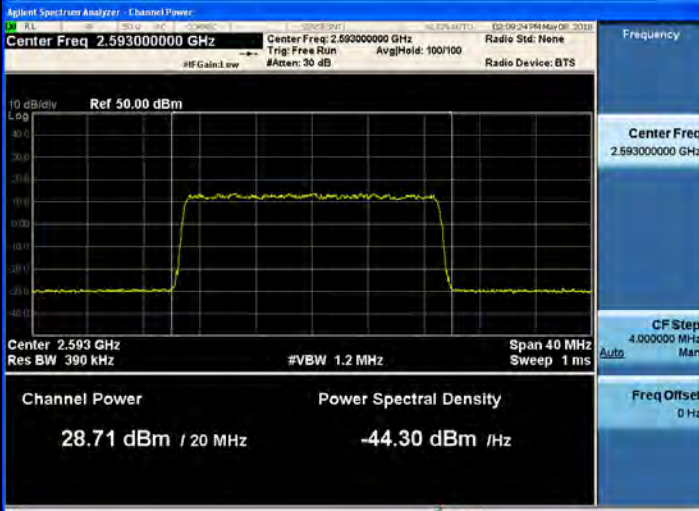
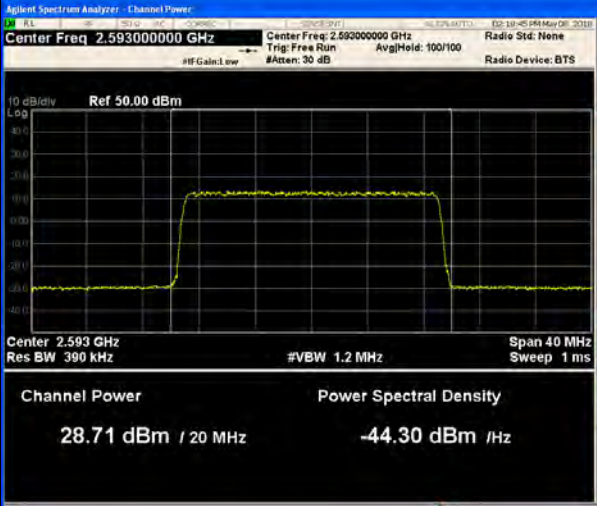
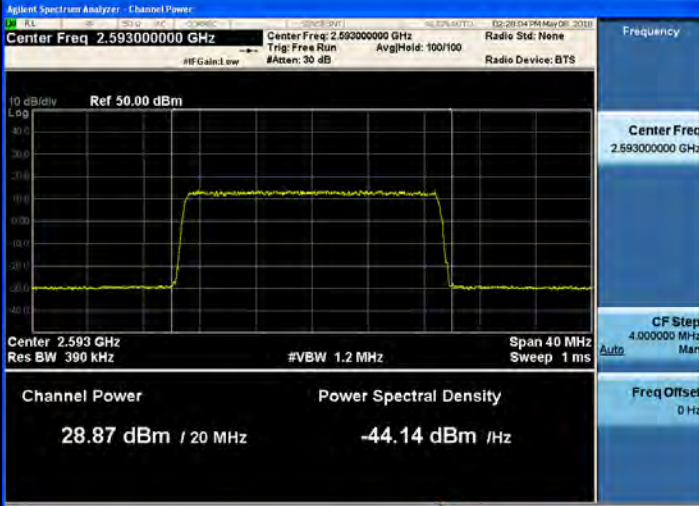
Channel: Middle

Modulation: 256QAM

Channel: Middle



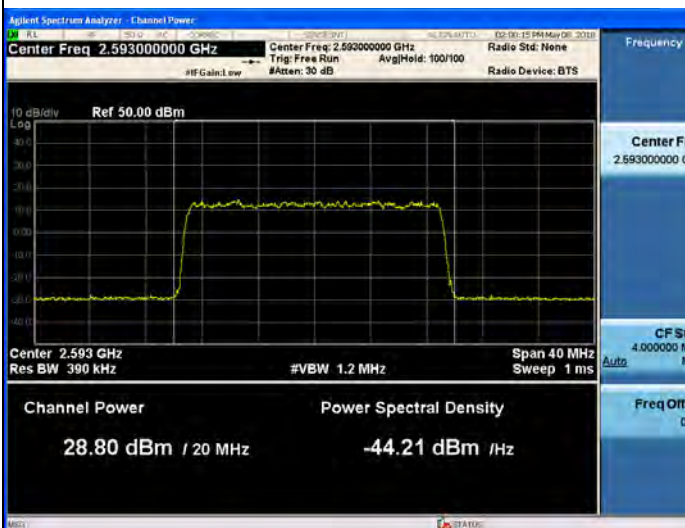
Port 34

Modulation:	QPSK	Modulation:	16QAM
Channel:	Low	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

Port 35

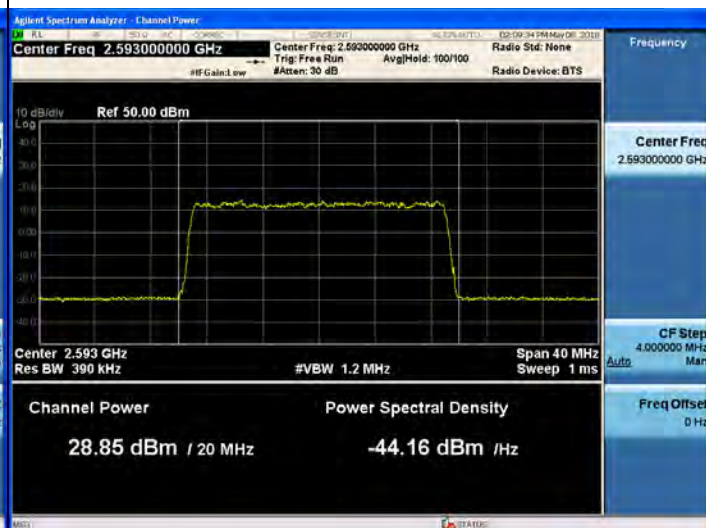
Modulation: QPSK

Channel: Middle



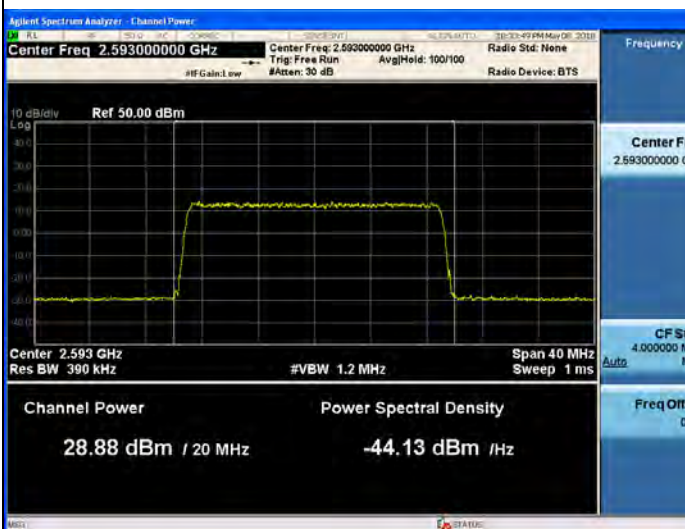
Modulation: 16QAM

Channel: Middle



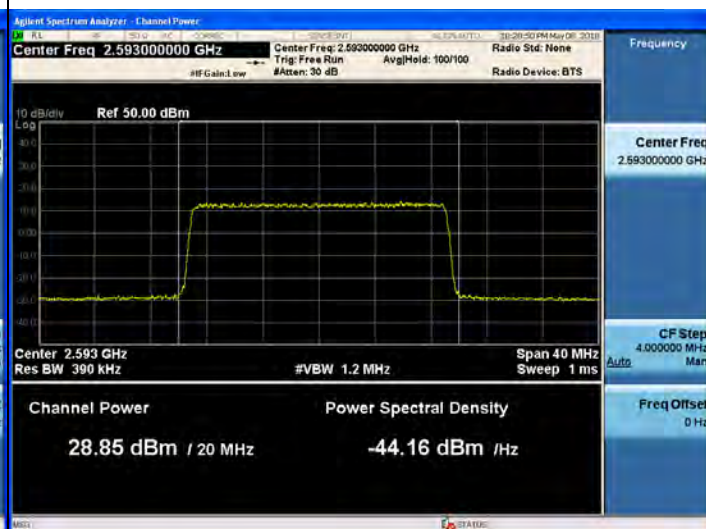
Modulation: 64QAM

Channel: Middle

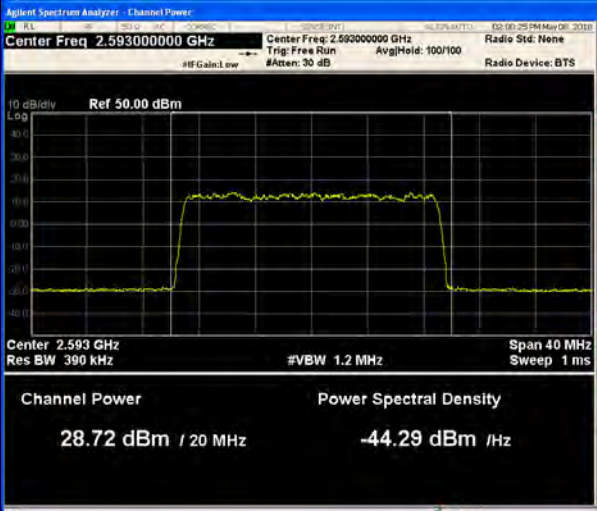
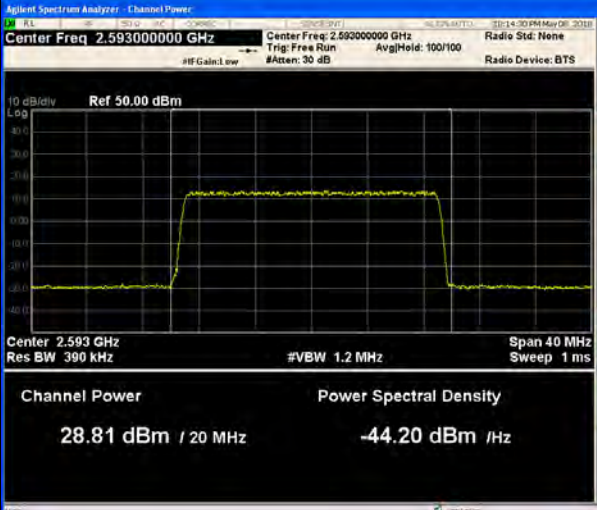


Modulation: 256QAM

Channel: Middle



Port 36

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

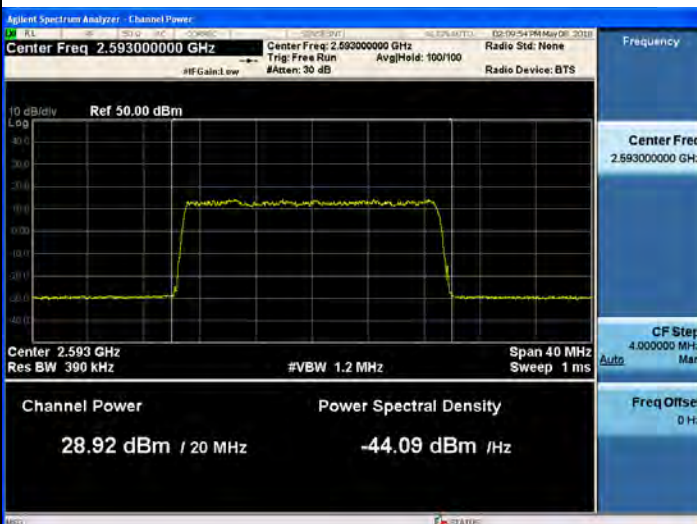
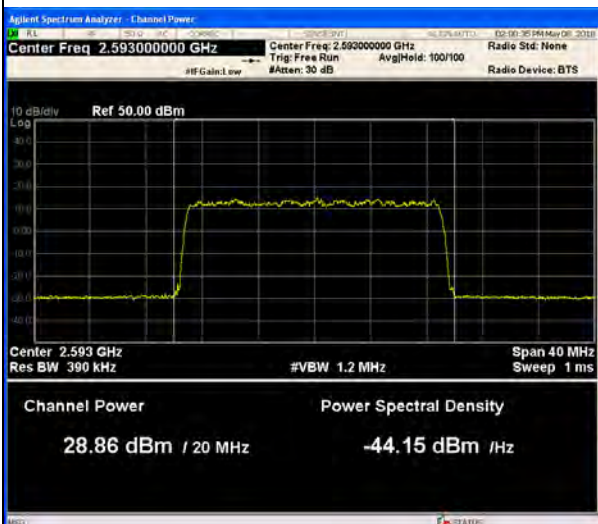
Port 37

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

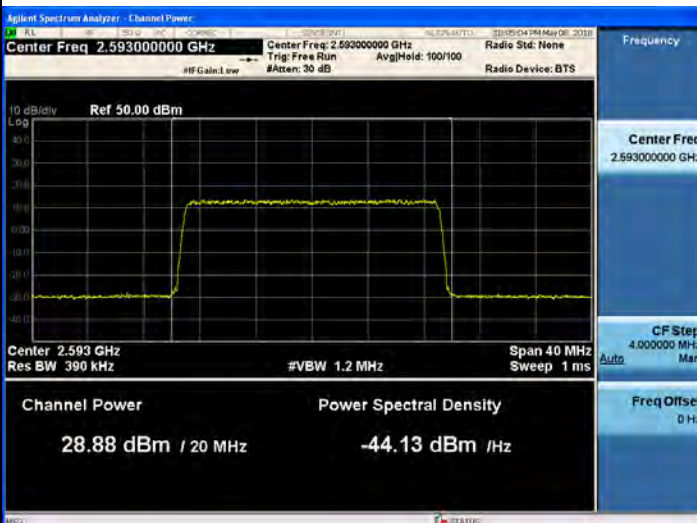
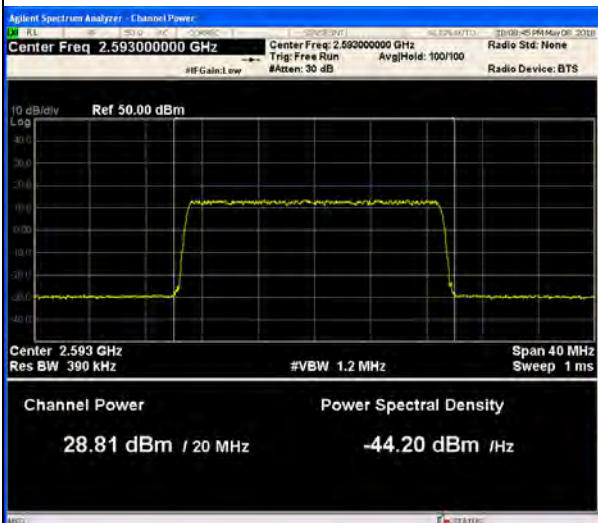


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



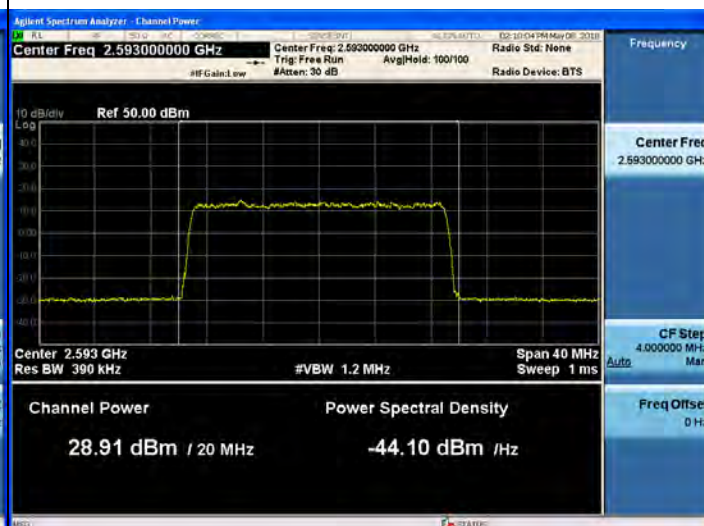
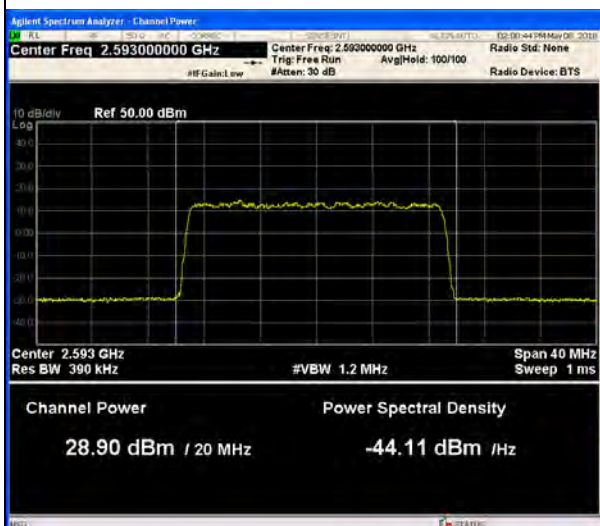
Port 38

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

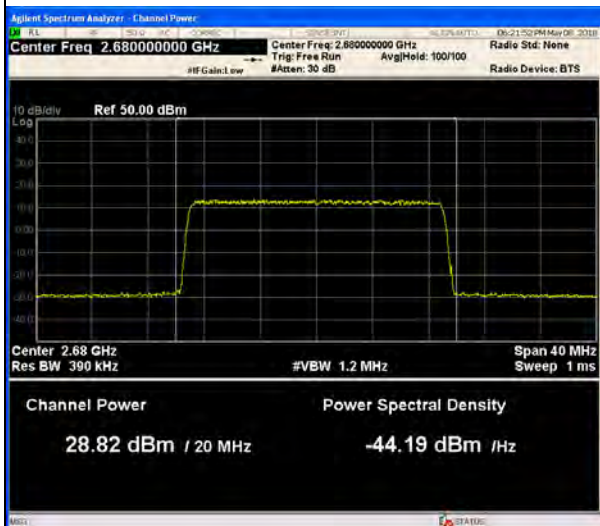


Modulation: 64QAM

Channel: High

Modulation: 256QAM

Channel: Middle



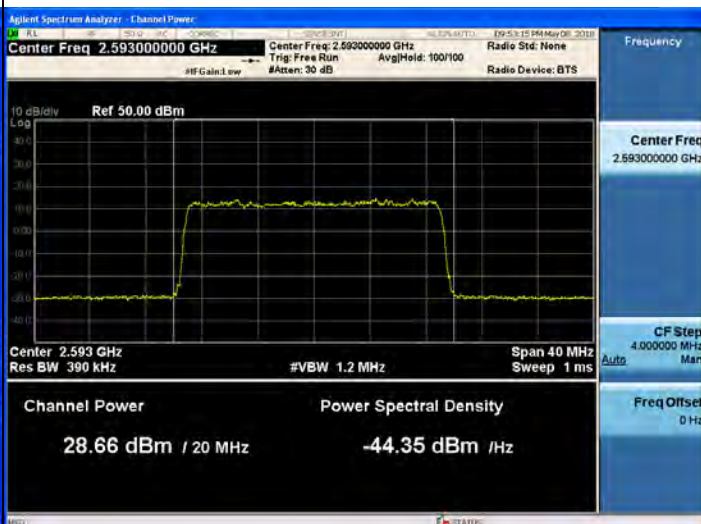
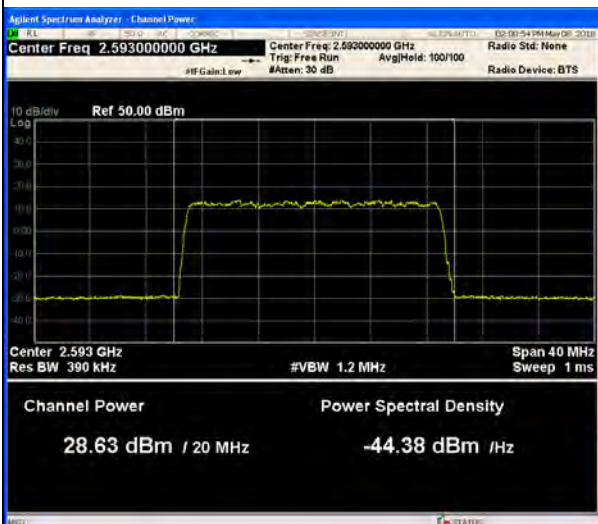
Port 39

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

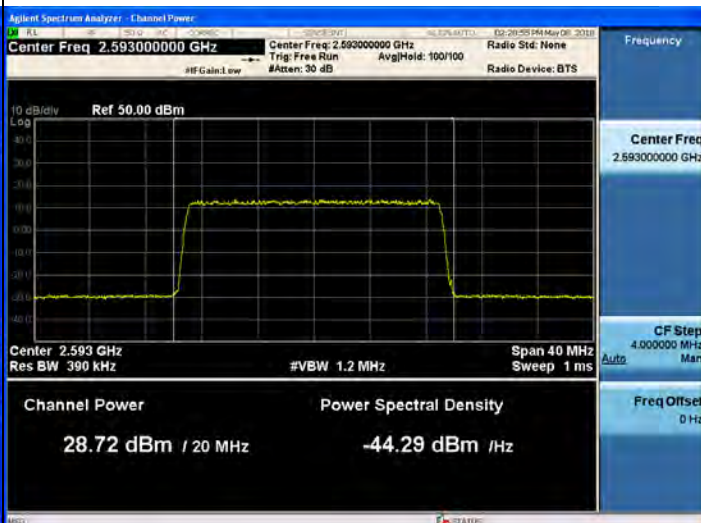
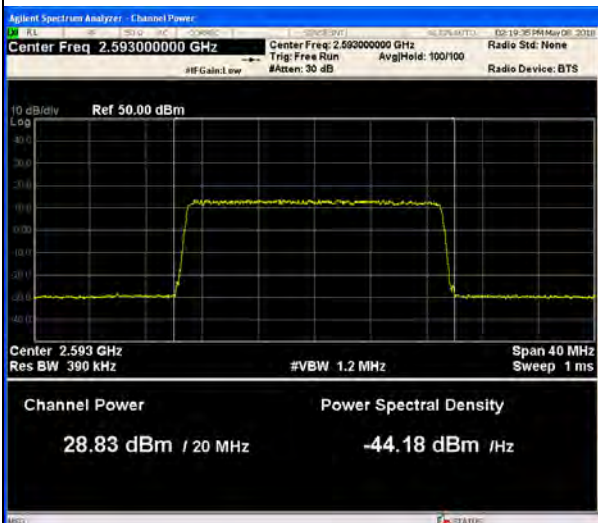


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



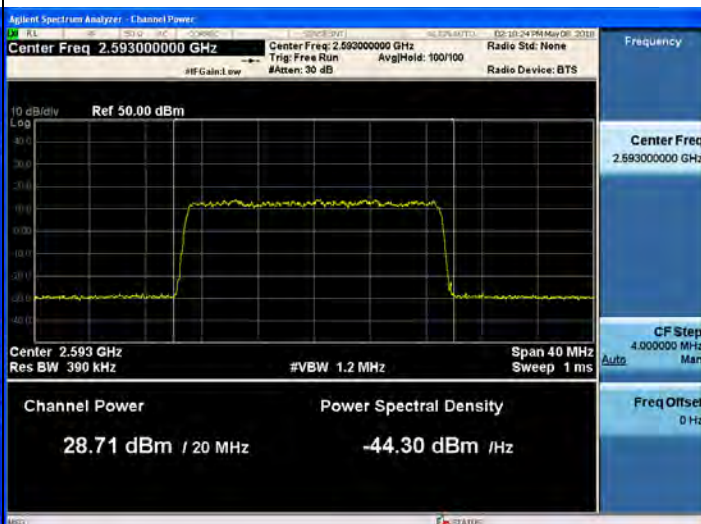
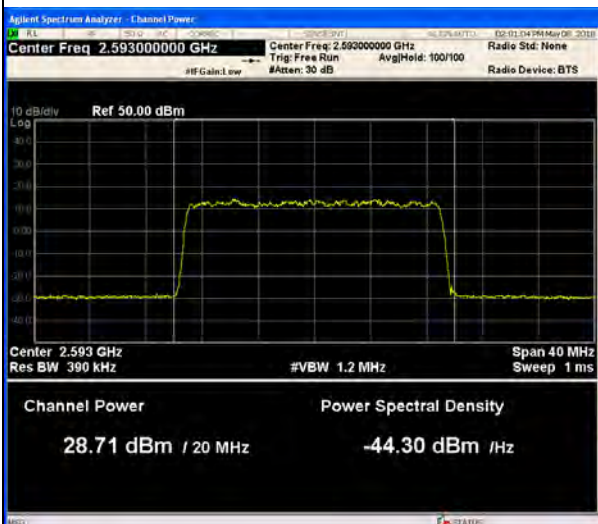
Port 40

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

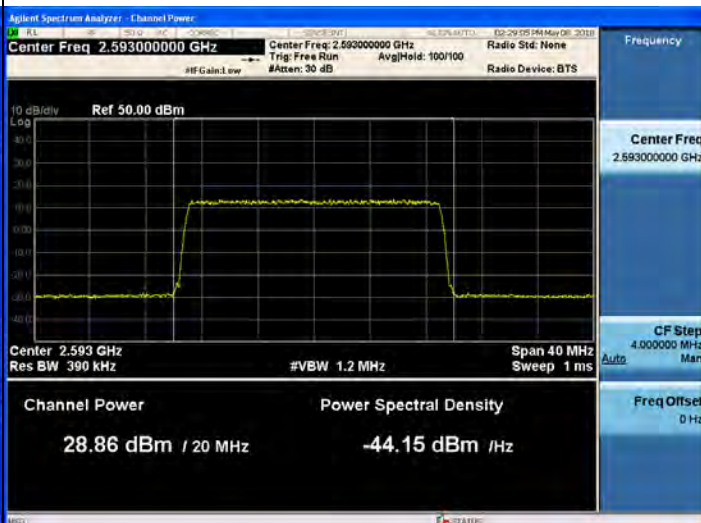
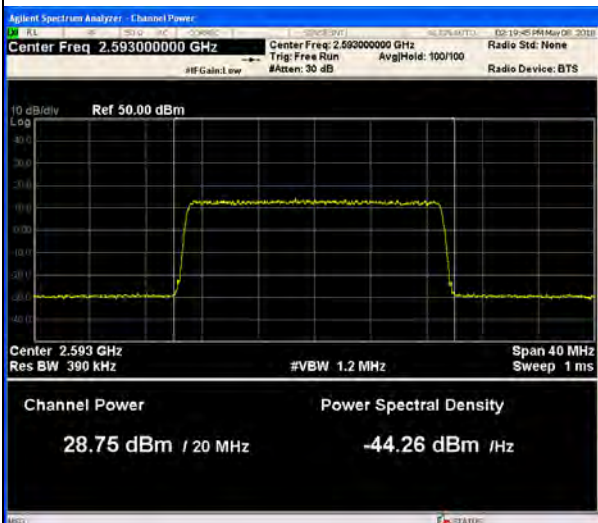


Modulation: 64QAM

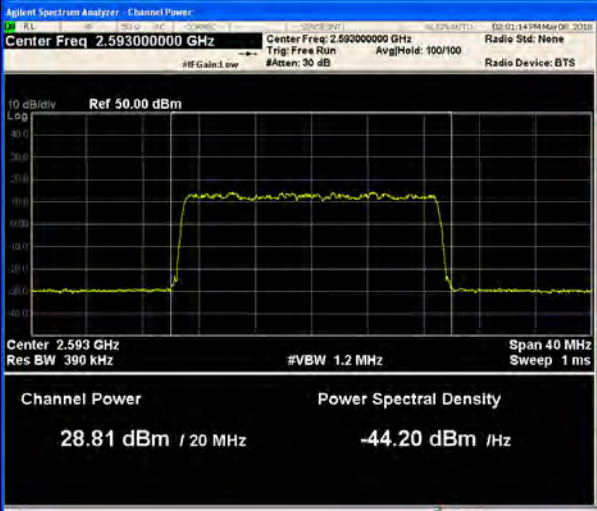
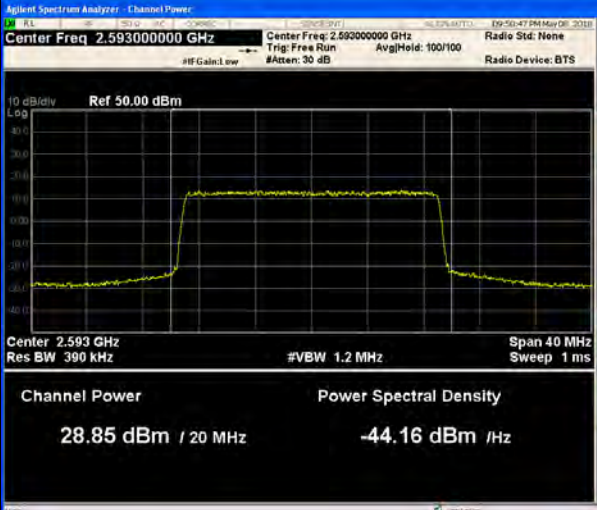
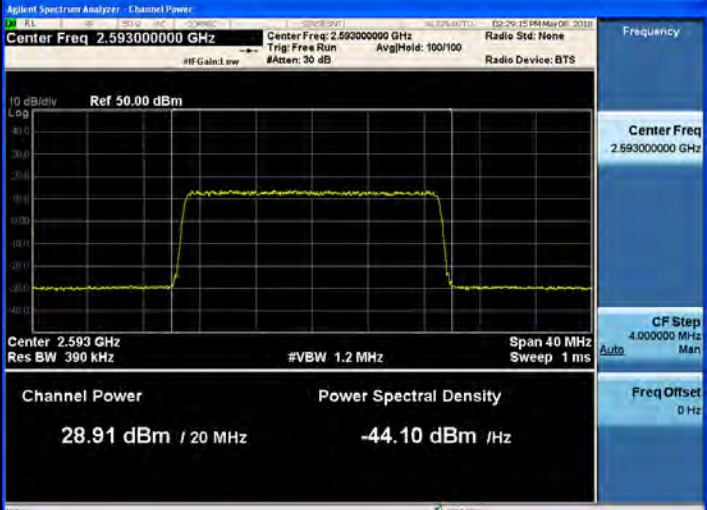
Channel: Middle

Modulation: 256QAM

Channel: Middle



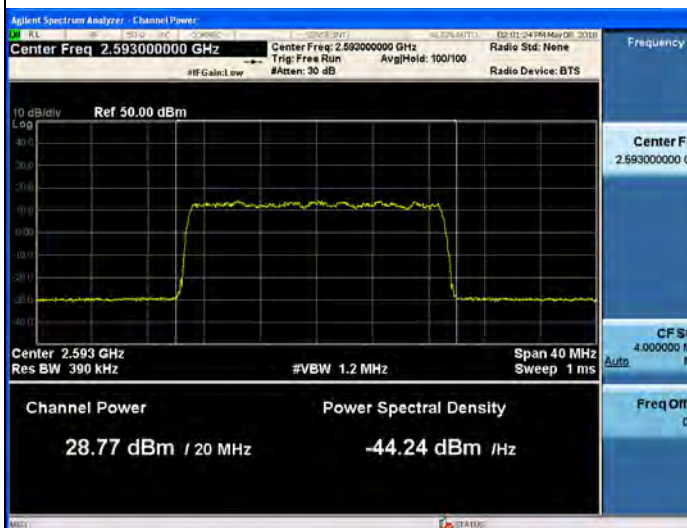
Port 41

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

Port 42

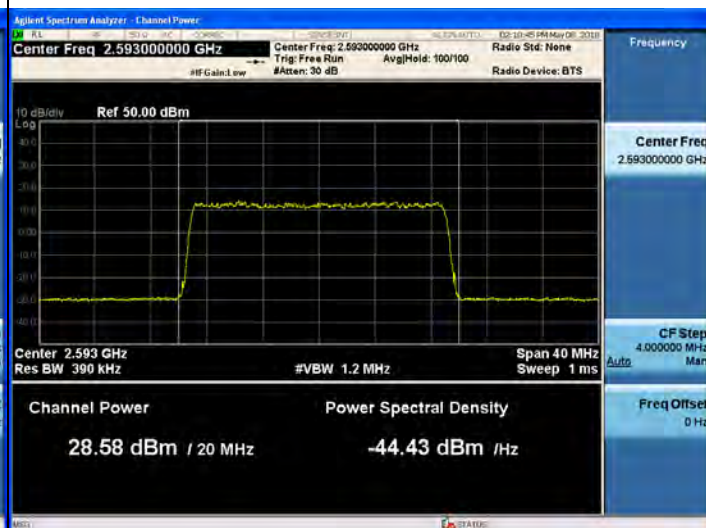
Modulation: QPSK

Channel: Middle



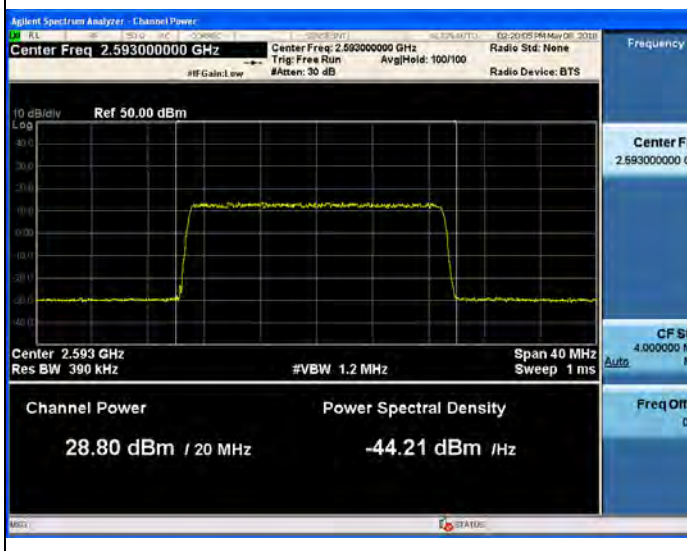
Modulation: 16QAM

Channel: Middle



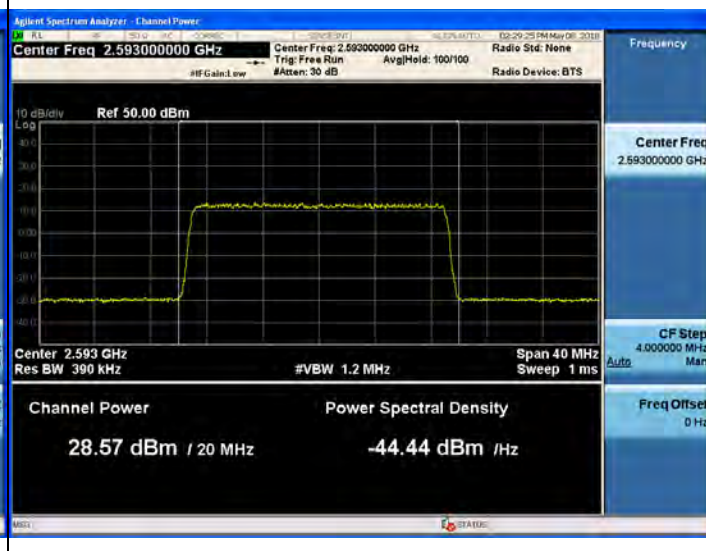
Modulation: 64QAM

Channel: Middle



Modulation: 256QAM

Channel: Middle



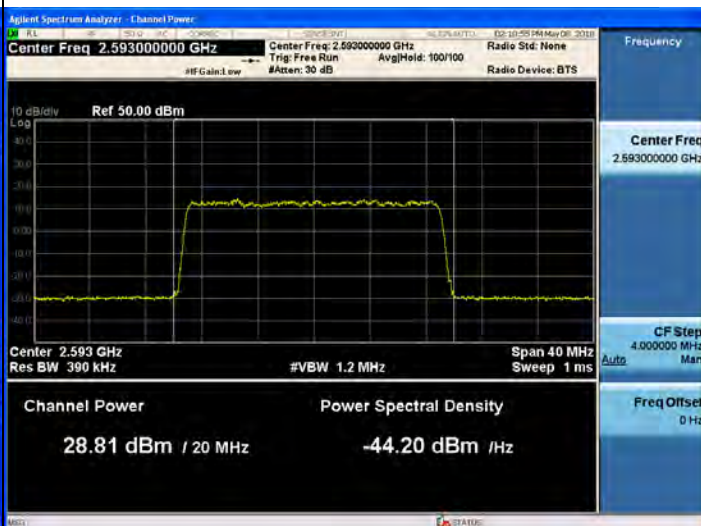
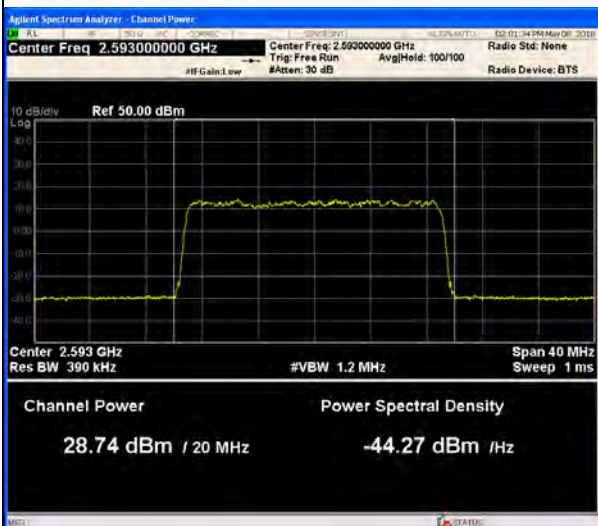
Port 43

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

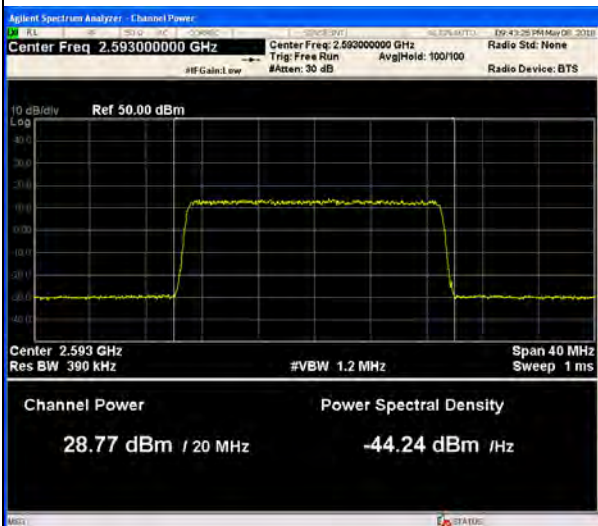


Modulation: 64QAM

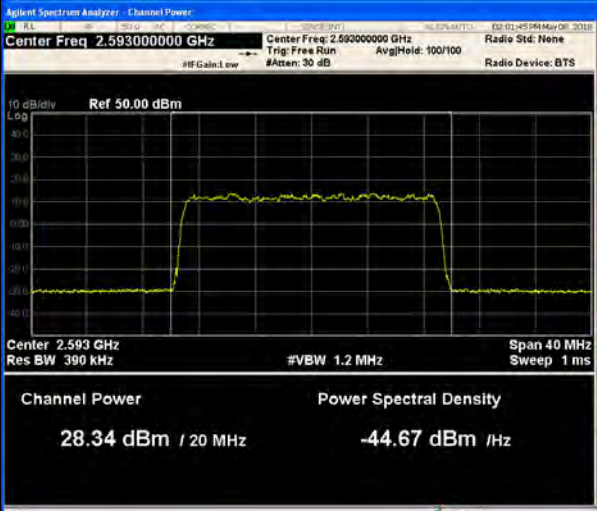
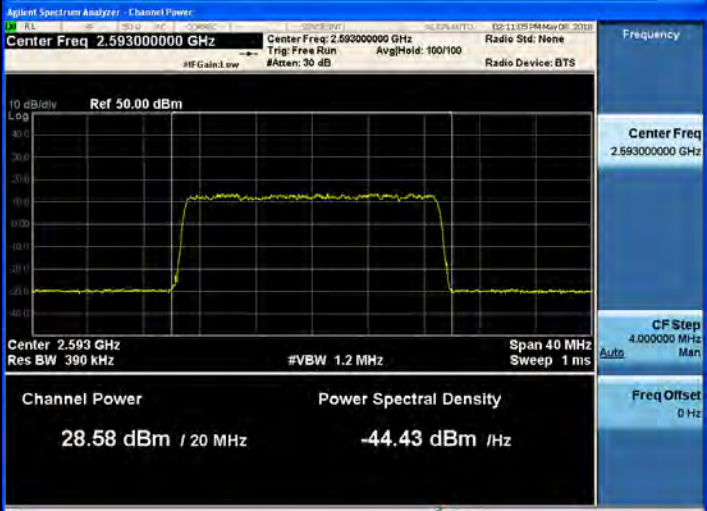
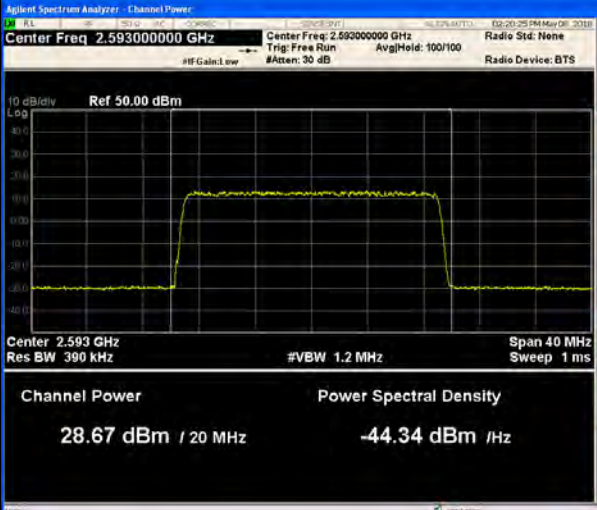
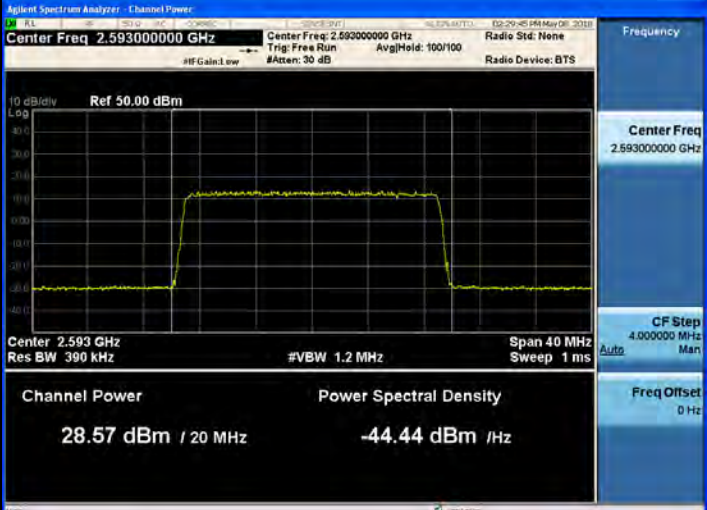
Channel: Middle

Modulation: 256QAM

Channel: High



Port 44

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

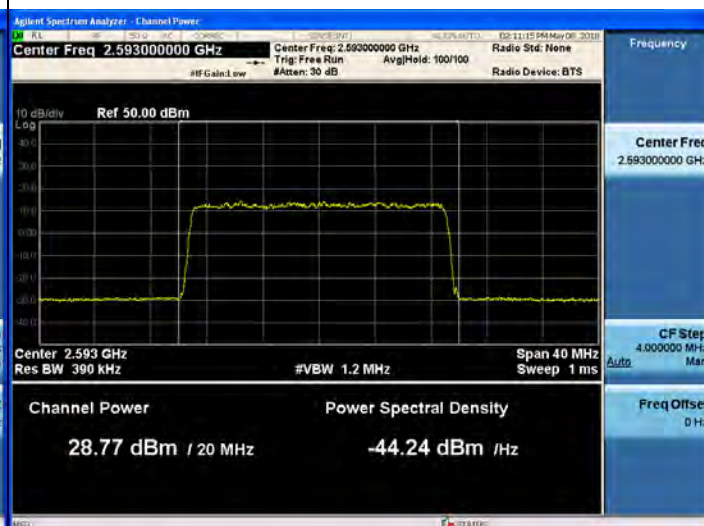
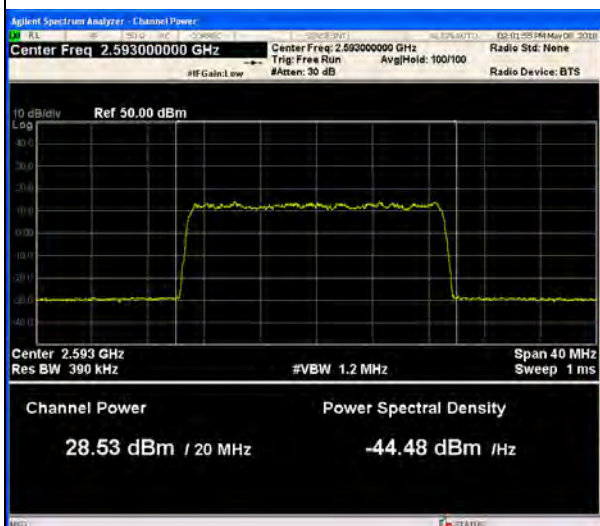
Port 45

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

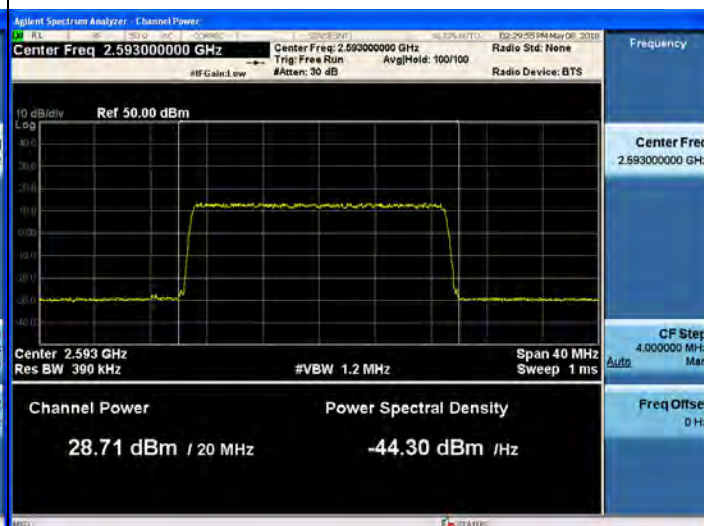
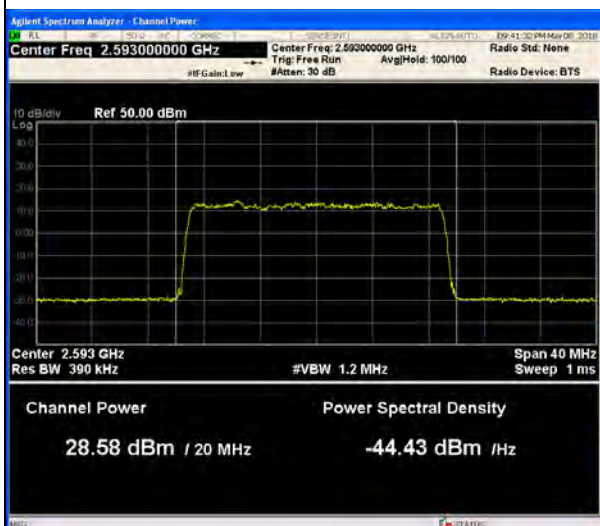


Modulation: 64QAM

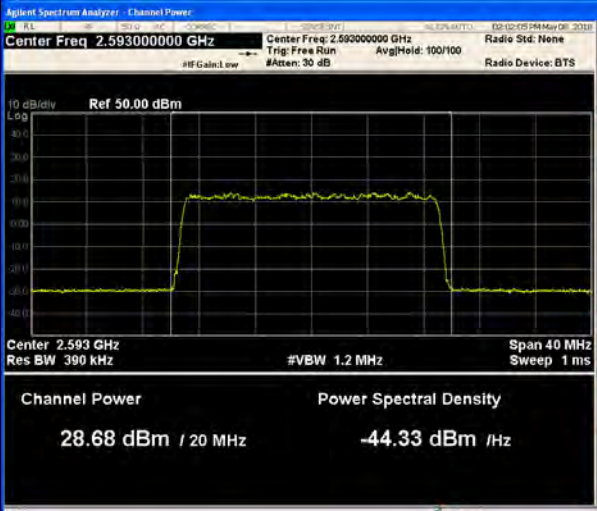
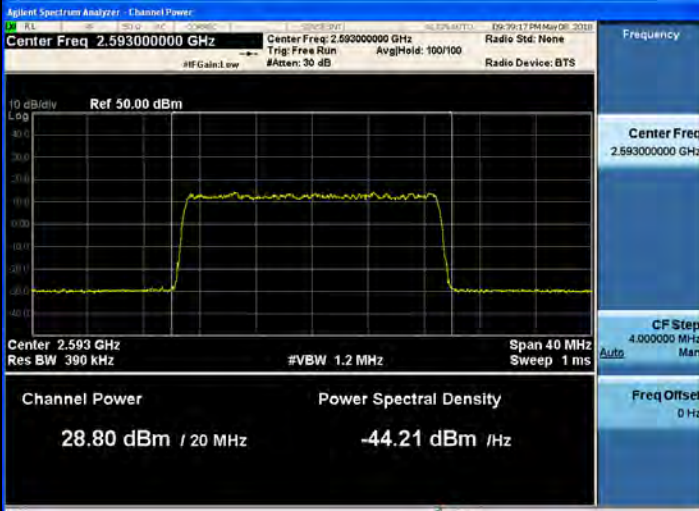
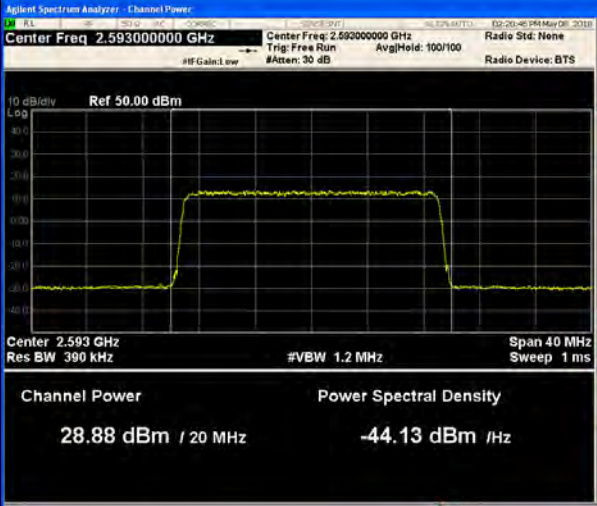
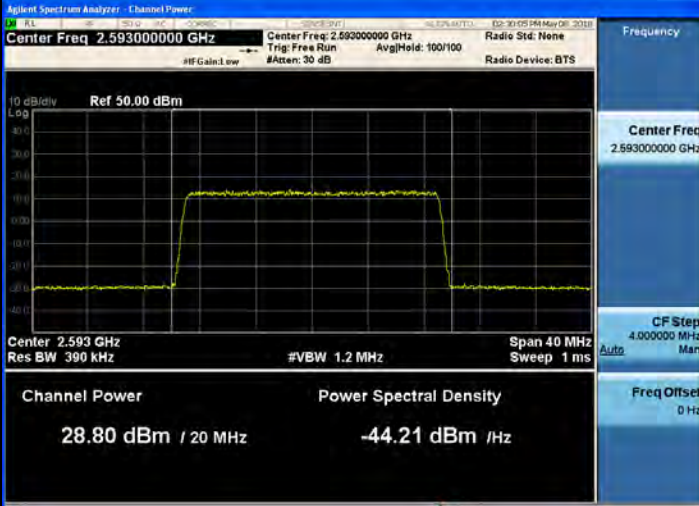
Channel: Middle

Modulation: 256QAM

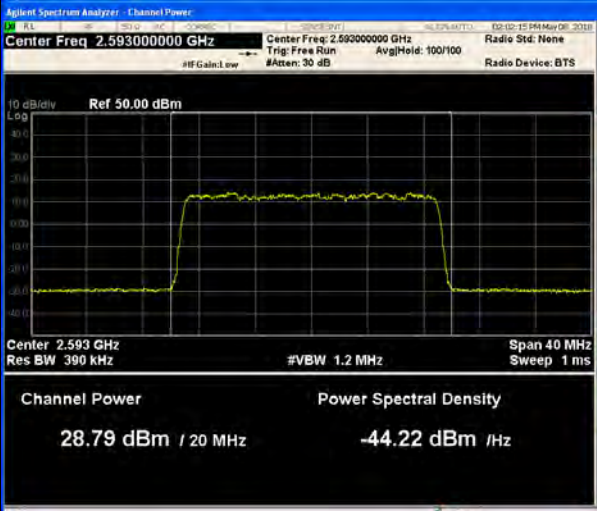
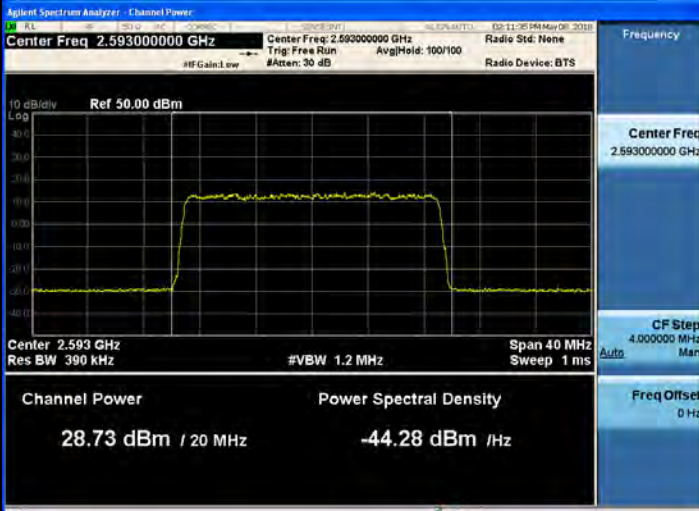
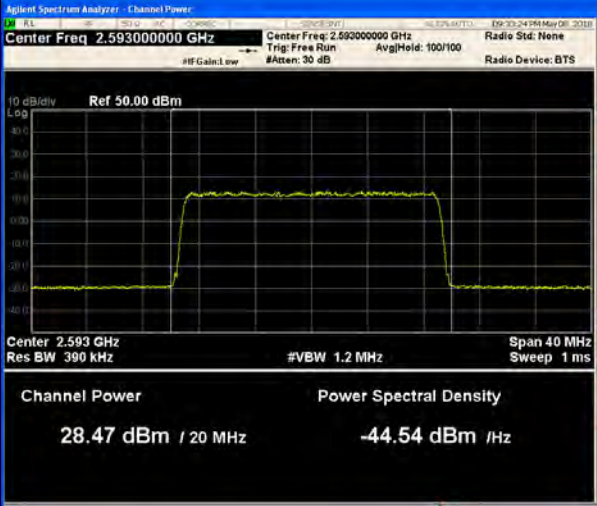
Channel: Middle



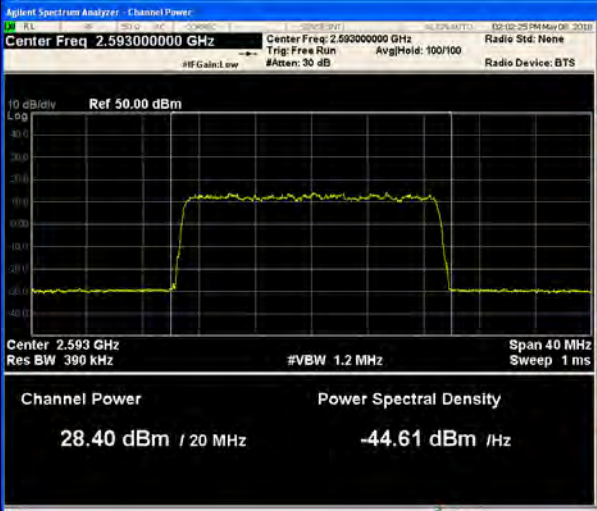
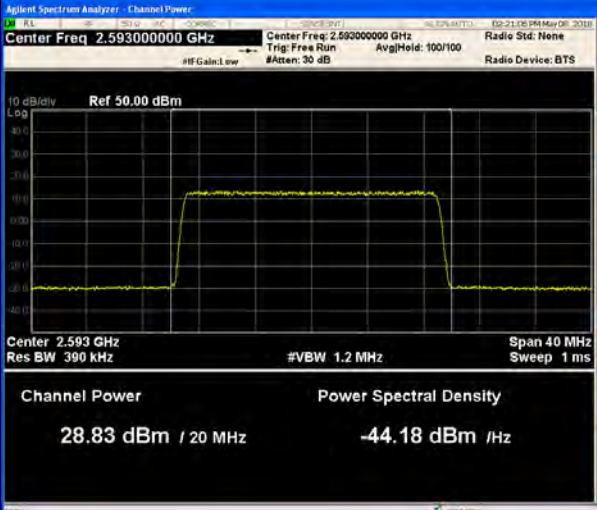
Port 46

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

Port 47

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

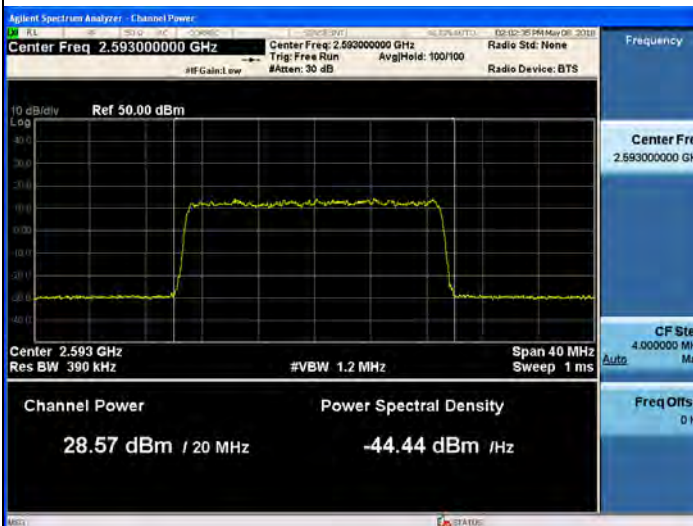
Port 48

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	Middle
			

Port 49

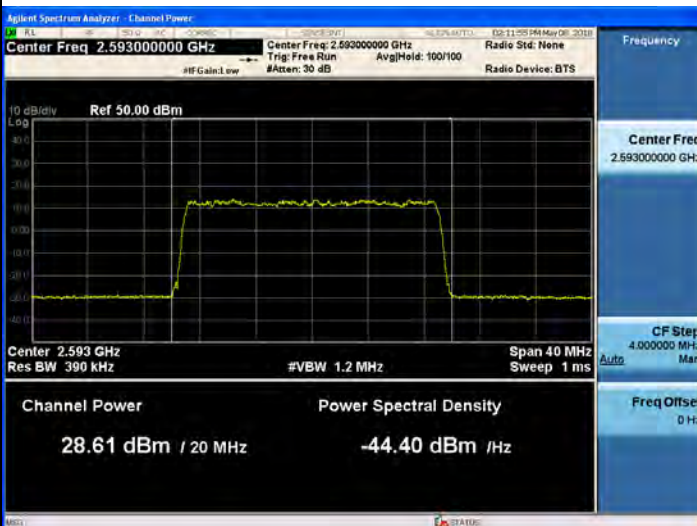
Modulation: QPSK

Channel: Middle



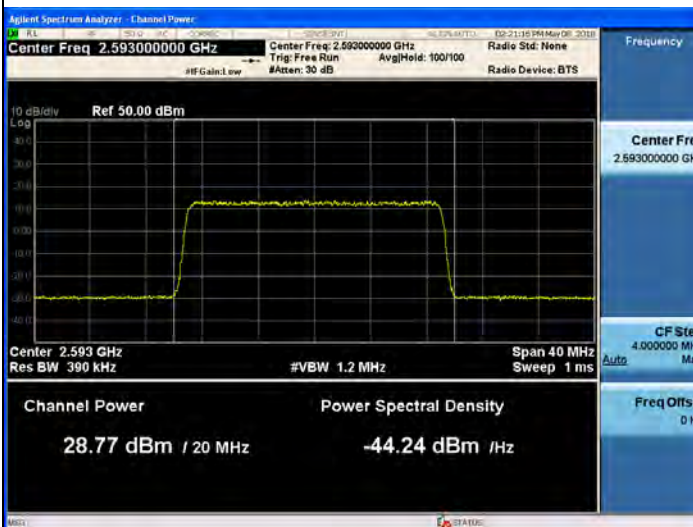
Modulation: 16QAM

Channel: Middle



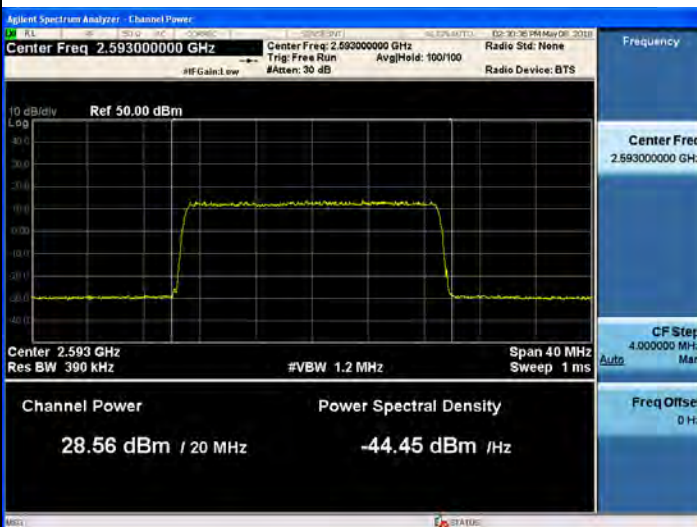
Modulation: 64QAM

Channel: Middle



Modulation: 256QAM

Channel: Middle



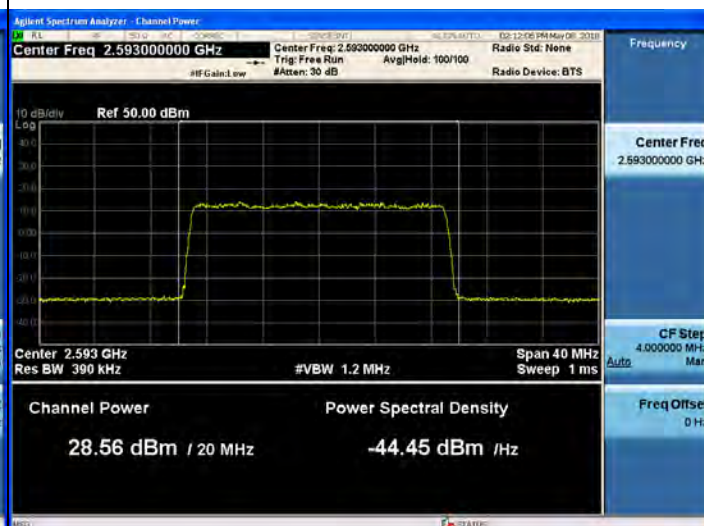
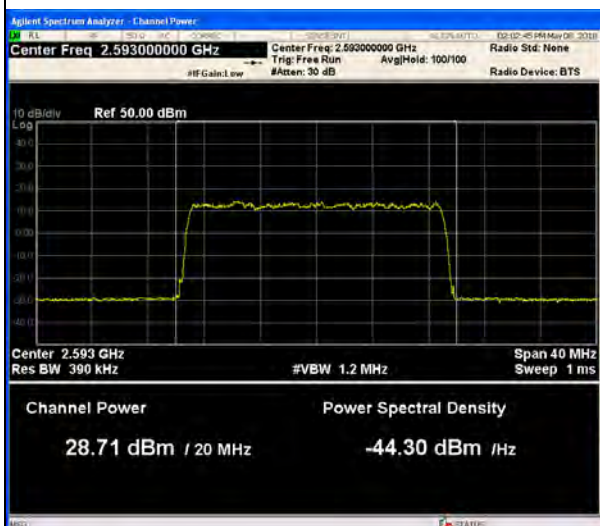
Port 50

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

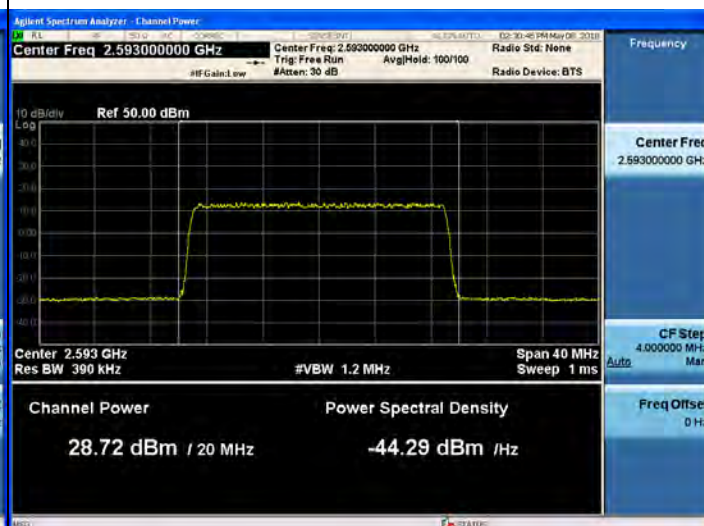
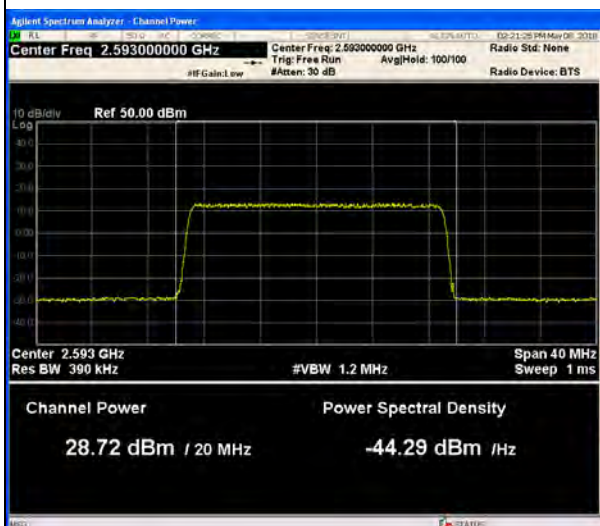


Modulation: 64QAM

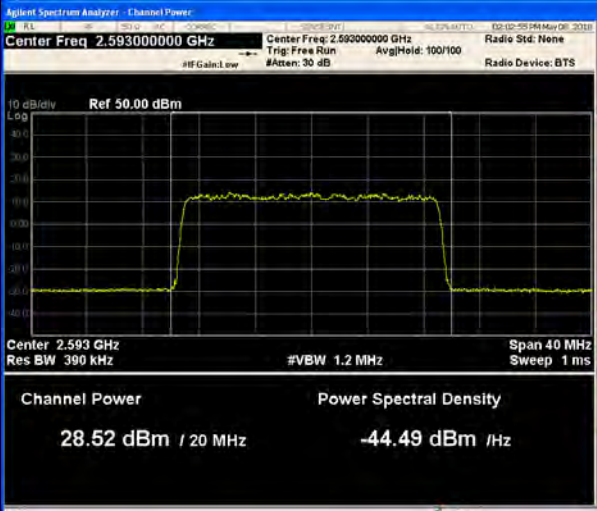
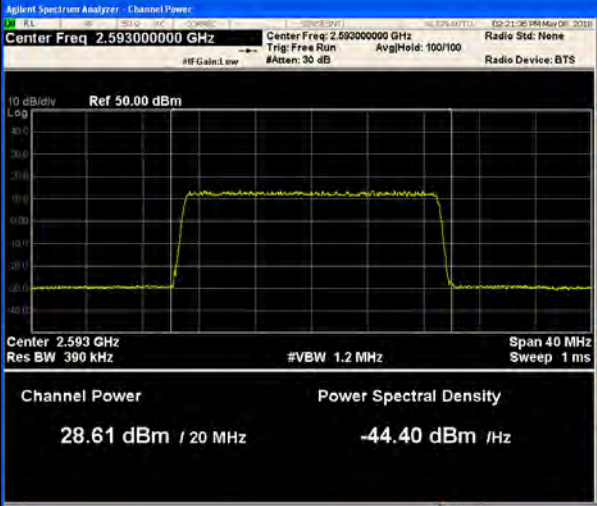
Channel: Middle

Modulation: 256QAM

Channel: Middle



Port 51

Modulation:	QPSK	Modulation:	16QAM
Channel:	Middle	Channel:	Middle
			
Modulation:	64QAM	Modulation:	256QAM
Channel:	Middle	Channel:	High
			

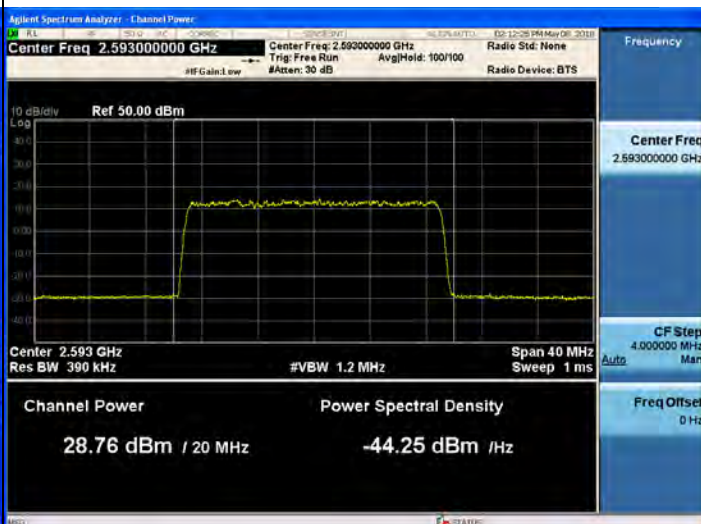
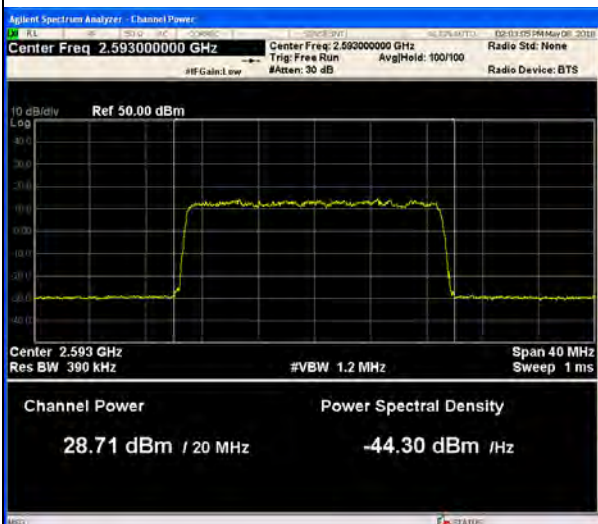
Port 52

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

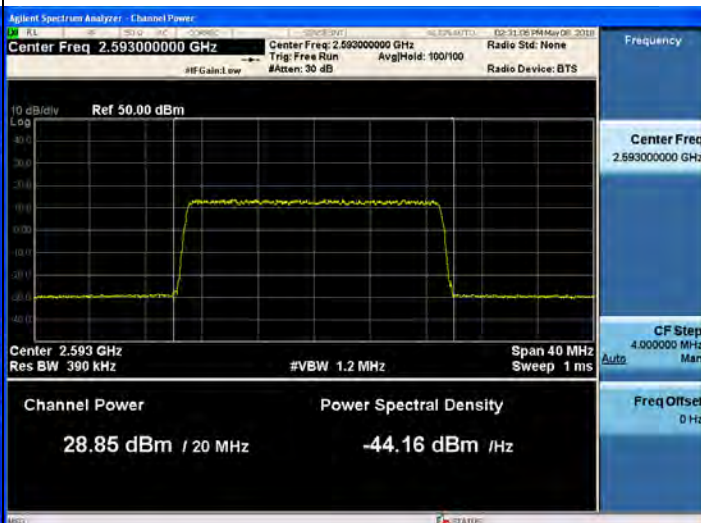
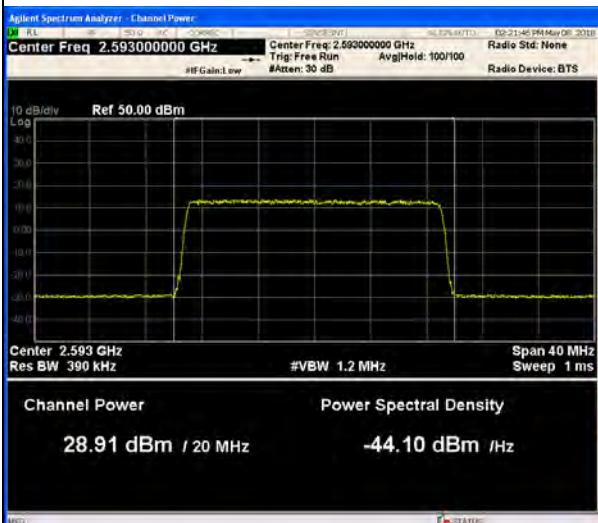


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



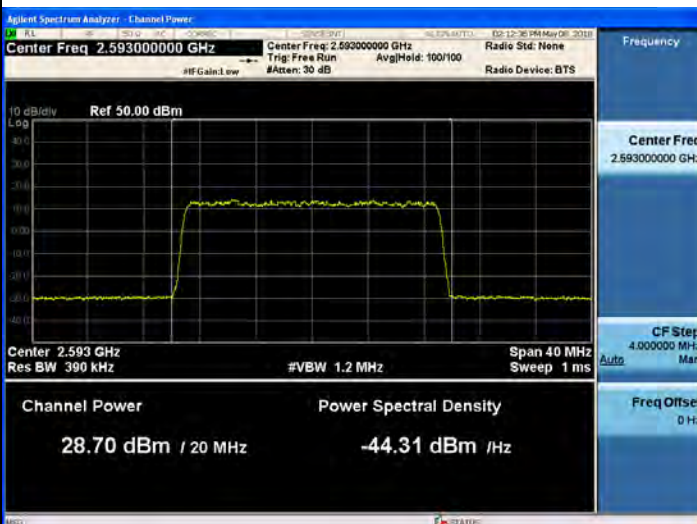
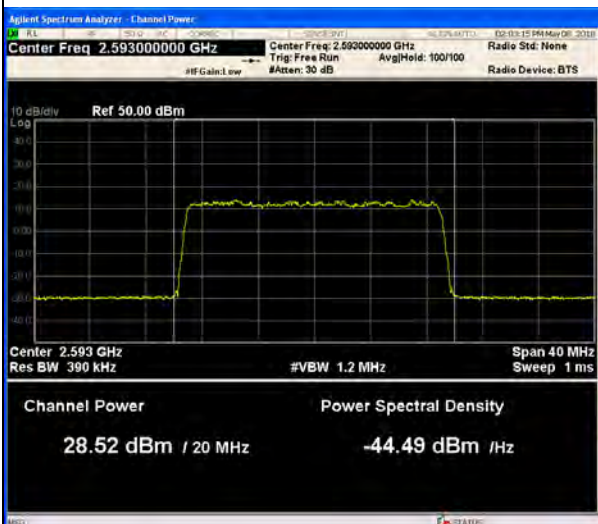
Port 53

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle

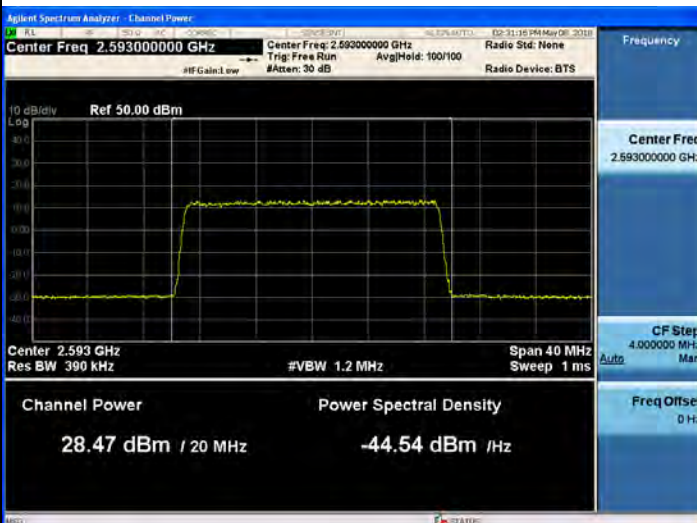
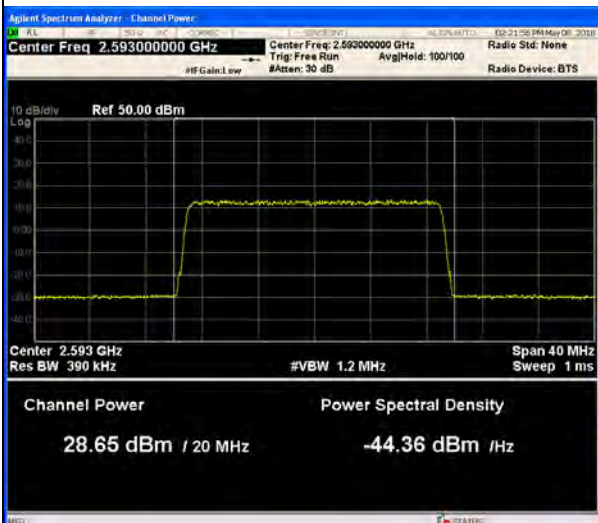


Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle



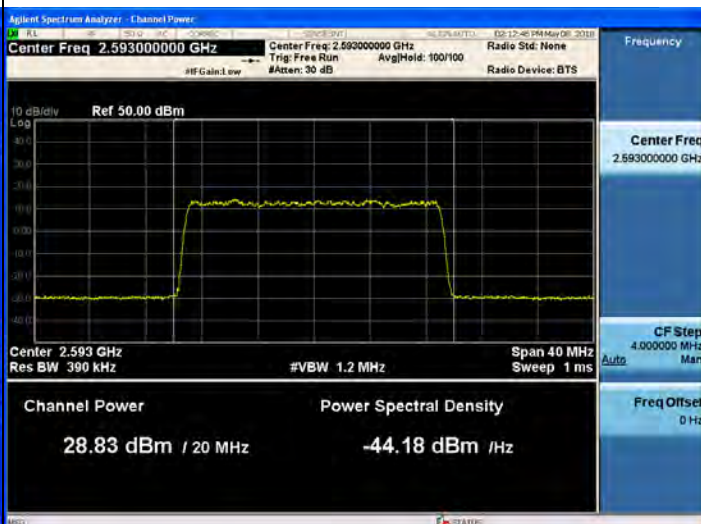
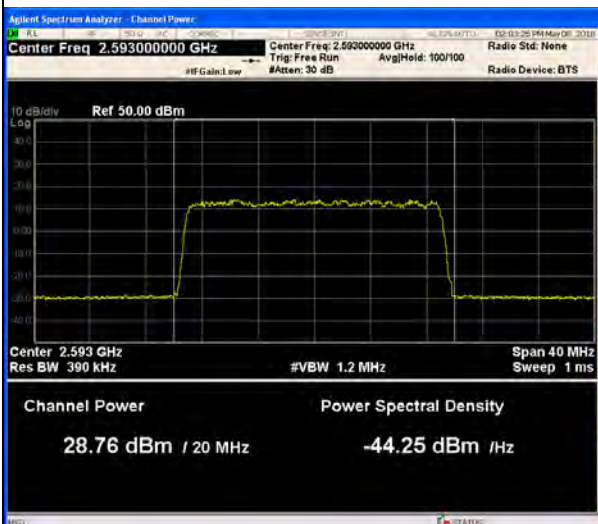
Port 54

Modulation: QPSK

Channel: Middle

Modulation: 16QAM

Channel: Middle



Modulation: 64QAM

Channel: Middle

Modulation: 256QAM

Channel: Middle

