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July 15, 2015

Ubiquiti Networks
1250 S. Grove Ave., Suite 100
Barrington, IL 60010

Dear Alexandros Pavlos,

Enclosed is the EMC test report for compliance testing of the Ubiquiti Networks, AirFiber 3X, tested to the requirements of Title 47 of the Code of Federal Regulations (CFR), Part 90 Subpart Z and RSS-197, Issue 1, February 2010 for Land Mobile Radio Services.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
MET LABORATORIES, INC.

Jennifer Warnell
Documentation Department

Reference: (\Ubiquiti Networks\EMC85689-FCC90Z Rev. 2)

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Electromagnetic Compatibility Criteria Test Report

For the

**Ubiquiti Networks
Model AirFiber 3X**

Tested under

**The FCC Verification Rules
Contained in Title 47 of the CFR, Part 90, Subpart Z
&
RSS-197, Issue 1, February 2010
for Private Land Mobile Radio Services**

MET Report: EMC85689-FCC90Z Rev. 2

July 15, 2015

**Prepared For:
Ubiquiti Networks
1250 S. Grove Ave., Suite 100
Barrington, IL 60010**

**Prepared By:
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Baltimore, MD 21230**

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MET Report: EMC85689-FCC90Z Rev. 2



Djed Mouada
Project Engineer, Electromagnetic Compatibility Lab



Jennifer Warnell
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Engineering Statement: 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 / is not capable of operation in accordance with the requirements of Part 90, Subpart Z of the FCC Rules and RSS-197, Issue 1, February 2010 of Industry Canada Standards under normal use and maintenance.



Asad Bajwa,
Director, Electromagnetic Compatibility Lab

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	June 29, 2015	Initial Issue.
1	July 13, 2015	Engineer corrections.

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List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
d	Measurement Distance
dB	Decibels
dBμA	Decibels above one microamp
dBμV	Decibels above one microvolt
dBμA/m	Decibels above one microamp per meter
dBμV/m	Decibels above one microvolt per meter
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
f	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
H	Magnetic Field
HCP	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	kilohertz
kPa	kilopascal
kV	kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
μH	microhenry
μ	microfarad
μs	microseconds
NEBS	Network Equipment-Building System
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane

Executive Summary

1. Testing Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 90, Subpart Z. All tests were conducted using measurement procedure ANSI TIA/EIA-603-A-2004.

Title 47 of the CFR, Part 90, Subpart Z, Reference and Test Description	RSS-197, Issue 1, February 2010 RSS-102, Issue 5, March 2015	Results
§2.1046, §90.1231 Power and antenna limits	5.6.1 Transmitter Output Power	Compliant
§2.1049 Occupied Bandwidth	5.2 Occupied Bandwidth	Compliant
§2.1051; §90.1323(a) Spurious Emissions at Antenna Terminals	5.7 Spurious Emissions at Antenna Terminals	Compliant
§2.1053; §90.1323 Radiated Spurious Emissions	5.7 Radiated Spurious Emissions	Compliant
§2.1055 Frequency Stability	5.3 Frequency Stability	Compliant
§2.1046, §90.1231 Peak Spectral Density	5.6.2 exposure	Compliant
§90.1335RF exposure	RSS-102(3.2) exposure	Compliant

Table 1. Summary of Test Results

Equipment Configuration

2. Equipment Configuration

2.1. Overview

MET Laboratories, Inc. was contracted by Ubiquiti Networks to perform testing on the AirFiber 3X.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Ubiquiti Networks., AirFiber 3X.

An EMC evaluation to determine compliance of the TB 4.9 with the requirements of Part 90, Subpart Z, was conducted. (All references are to the most current version of Title 47 of the Code of Federal Regulations in effect). In accordance with §2.1033, the following data is presented in support of the Certification of the TB4.9. Ubiquiti Networks. should retain a copy of this document and it should be kept on file for at least five years after the manufacturing of the EUT has been **permanently** discontinued. The results obtained relate only to the item(s) tested.

Model(s) Tested:	AirFiber 3X	
Model(s) Covered:	AirFiber 3X	
EUT Specifications:	Primary Power Source: 18VDC	
	FCC ID: SWX-AF3X	
	IC: 6545A-AF3X	
	Type of Modulations:	OFDM
	RF Output Power:	31.654 dBm, 17.95dBm, 14.953dBm
	Equipment Code:	TNB
	EUT Frequency Ranges:	3650MHz-3700MHz
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
Evaluated by:	Djed Mouada	
Report Date(s):	July 15, 2015	

Table 2. EUT Specifications

2.2. Test Site

All testing was performed at MET Laboratories, Inc., 914 W. Patapsco Ave., Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories.

2.3. Description of Test Sample

The AirFiber 3X, Equipment Under Test (EUT), is a 3.3GHz – 3.9GHz, Point-to-Point radio that uses OFDM MIMO Uncorrelated Cross-Polarized communication with a 50MHz/40MHz/30MHz/28MHz/ 20MHz/10MHz/ 7MHz/5MHz/3.5MHz bandwidth configuration. The EUT would be used outdoors and pole mounted. It is powered from a PoE adapter. The reverse-polarized connectorized has the ability when professionally installed by a user with cross-polarized antennas. This is the only matter that would be able to create a functional link to work.

2.4. Ports and Cabling Information

Ref. ID	Port Name on EUT	Cable Description	Qty.	Length (m)	Shielded (Y/N)	Termination Point
1	Management Port	RJ45 Ethernet	1	2	Yes	--
2	Data Port	RJ45 Ethernet	1	2	Yes	--
3	RP sma CH0	RF coax	1	2	Yes	--
4	RP sma CH1	RF coax	1	2	Yes	--

Table 3. Ports and Cabling Information

2.5. Mode of Operation

Using internal test modes only for testing purposes the radio is set up in a continuous transmit mode. This allows for frequency, power, and channel bandwidth to be adjusted for measurement purposes. Scripts and specific command line commands are used to manipulate the radio in test mode.

2.6. Method of Monitoring EUT Operation

1. A blinking green “Data” LED will indicate error-free data is being transferred on the test cable.
2. Any other LED status besides the blinking green LED (i.e. LED light off, etc) will indicate error-free data is not being transferred on the test cable.

2.7. Modifications

2.7.1. Modifications to EUT

No modifications were made to the EUT.

2.7.2. Modifications to Test Standard

No modifications were made to the EUT.

2.8. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Ubiquiti Networks upon completion of testing.

Electromagnetic Compatibility Criteria for Intentional Radiators

3. Electromagnetic Compatibility RF Power Output Requirements

3.1. RF Power Output

Test Requirement(s): §2.1046, §90. 1321 (a) and §90. 1321 (c)

Test Procedures: The EUT was connected to a Spectrum Analyzer through an attenuator. The spectrum analyzer's channel power measuring option was used. The EUT power was adjusted to produce maximum output power as specified in the owner's manual. Measurements were performed at the low, mid and high channels for each of the EUT's bandwidths and modulations.

Limits: For Base and Fixed stations the EIRP limit is 25W / 25MHz.

For mobile and portable stations the EIRP limit is 1W / 25MHz.

Test Results: Equipment complies with 90.1321(a) for Base and Fixed Stations. The antenna gain limits provided assume a professional installation of the device to set the minimum channel bandwidth according to the installed antenna gain. If professional installation is not used, then the maximum gain of the device is 18 dBi.

Test Engineer(s): Djed Mouada

Test Date(s): 06/12/15



Figure 1. RF Power Output Test Setup

3.5 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit W	Margin
3.65175	20.21	20.51	23.373	12	35.373	3.4458788	3.5	-0.0541212
3.675	20.15	20.26	23.216	12	35.216	3.323533	3.5	-0.176467
3.69825	20.27	20.33	23.31	12	35.31	3.3962527	3.5	-0.1037473
5MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.6525	21.83	21.95	24.901	12	36.901	4.8989161	5	-0.1010839
3.675	22.06	21.37	24.739	12	36.739	4.719543572	5	-0.280456428
3.6975	21.85	22.06	24.967	12	36.967	4.9739338	5	-0.0260662
7MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.6535	23.5	23.09	26.31	12	38.31	6.7764151	7	-0.2235849
3.675	23.31	23.17	26.251	12	38.251	6.684978272	7	-0.315021728
3.6965	23.2	23.14	26.18	12	38.18	6.576578374	7	-0.423421626
10MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(DBM)	EIRP /w	Limit	Margin
3.655	25.02	24.89	27.966	12	39.966	9.9220178	10	-0.0779822
3.675	24.41	24.91	27.677	12	39.677	9.283249	10	-0.716751
3.695	25.13	24.68	27.921	12	39.921	9.8197402	10	-0.1802598
14 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.657	26.32	26.15	29.246	12	41.246	13.322938	14	-0.6770622
3.675	25.87	26.4	29.153	12	41.153	13.040673	14	-0.9593271
3.693	25.83	25.89	28.87	12	40.87	12.217997	14	-1.7820034
20MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.66	28.13	27.2	30.7	12	42.7	18.620871	20	-1.3791286
3.675	27.92	28.02	30.981	12	42.981	19.865523	20	-0.1344771
3.69	27.83	28.11	30.983	12	42.983	19.874673	20	-0.1253266
28MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.664	28.43	28.13	31.293	12	43.293	21.345189	25	-3.6548112
3.675	28.35	28.21	31.291	12	43.291	21.335361	25	-3.6646388
3.686	28.58	27.94	31.282	12	43.282	21.29119316	25	-3.708806841
30MHz								
Frequency		Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.665	28.63	28.28	31.469	12	43.469	22.22798	25	-2.7720199
3.675	28.81	28.47	31.654	12	43.654	23.1953	25	-1.8046997
3.685	28.64	28.23	31.45	12	43.45	22.130947	25	-2.8690529
40MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.67	28.88	27.58	31.289	12	43.289	21.325538	25	-3.6744618
3.675	28.44	28.03	31.25	12	43.25	21.13489	25	-3.8651096
3.68	28.42	28.05	31.249	12	43.249	21.130024	25	-3.8699755

Table 4. RF Output Power, Test Results, 12 dBi Antenna Power

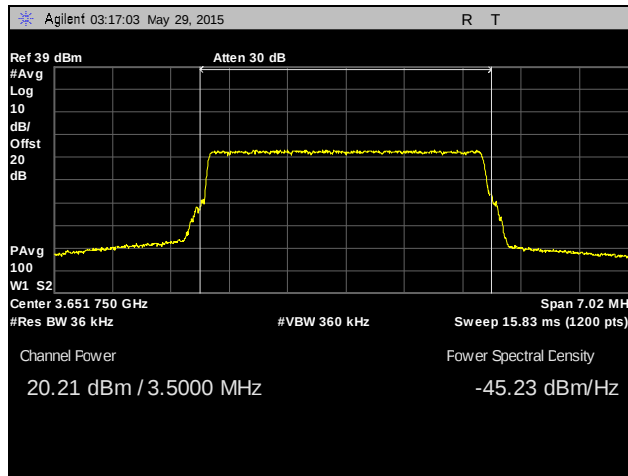
3.5 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit W	Margin
3.65175	6.15	6.29	9.231	26	35.231	3.335032	3.5	-0.164968
3.675	6.36	6.12	9.252	26	35.252	3.3511973	3.5	-0.1488027
3.69825	6.3	6.2	9.261	26	35.261	3.3581493	3.5	-0.1418507
5 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.6525	7.35	7.63	10.503	26	36.503	4.4699226	5	-0.5300774
3.675	7.55	7.72	10.646	26	36.646	4.6195535	5	-0.3804465
3.6975	7.47	7.82	10.659	26	36.659	4.633402194	5	-0.366597806
7 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.6535	9.24	9.17	12.215	26	38.215	6.6297935	7	-0.3702065
3.675	9.33	9.43	12.391	26	38.391	6.9039876	7	-0.0960124
3.6965	9.28	9.44	12.371	26	38.371	6.872266616	7	-0.127733384
10 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.655	10.81	10.64	13.736	26	39.736	9.4102248	10	-0.5897752
3.675	10.81	10.76	13.795	26	39.795	9.5389374	10	-0.4610626
3.695	10.77	10.73	13.76	26	39.76	9.4623716	10	-0.5376284
14 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.657	12.3	12.47	15.396	26	41.396	13.791135	14	-0.2088653
3.675	12.15	12.32	15.246	26	41.246	13.322938	14	-0.6770622
3.693	12.37	12.3	15.345	26	41.345	13.63013	14	-0.3698699
20 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.66	13.96	13.9	16.94	26	42.94	19.678863	20	-0.3211371
3.675	13.86	13.91	16.895	26	42.895	19.47601	20	-0.5239895
3.69	13.83	13.8	16.825	26	42.825	19.164611	20	-0.8353894
Lower 25MHz of 28 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.664	14.77	14.92	17.856	26	43.856	24.299649	25	-0.700351
3.675	14.87	14.95	17.92	26	43.92	24.660393	25	-0.3396066
3.686	14.75	14.93	17.851	26	43.851	24.271689	25	-0.7283109
Upper 25MHz of 28 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.664	14.65	14.94	17.808	26	43.808	24.032558	25	-0.967442
3.675	14.76	14.93	17.856	26	43.856	24.299649	25	-0.700351
3.686	14.93	14.99	17.97	26	43.97	24.945947	25	-0.0540527
Lower 25MHz of 30 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.665	14.95	14.45	17.717	26	43.717	23.53423	25	-1.4657696
3.675	14.93	14.91	17.93	26	43.93	24.717241	25	-0.2827585
3.685	14.96	14.91	17.945	26	43.945	24.802759	25	-0.1972406
Upper 25MHz of 30 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.665	14.81	14.93	17.881	26	43.881	24.439932	25	-0.5600676
3.675	14.93	14.75	17.851	26	43.851	24.271689	25	-0.7283109
3.685	14.46	14.71	17.597	26	43.597	22.89285724	25	-2.107142761
Lower 25MHz of 40 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.67	14.73	14.92	17.836	26	43.836	24.188002	25	-0.8119978
3.675	14.76	14.91	17.846	26	43.846	24.243761	25	-0.7562387
3.68	14.91	14.97	17.95	26	43.95	24.831331	25	-0.1686689
Upper 25MHz of 40 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.67	14.98	14.82	17.911	26	43.911	24.609342	25	-0.3906581
3.675	14.84	14.89	17.875	26	43.875	24.406191	25	-0.5938093
3.68	14.84	14.92	17.89	26	43.89	24.490632	25	-0.5093676

Table 5. RF Output Power, Test Results, 26 dBi Antenna Power

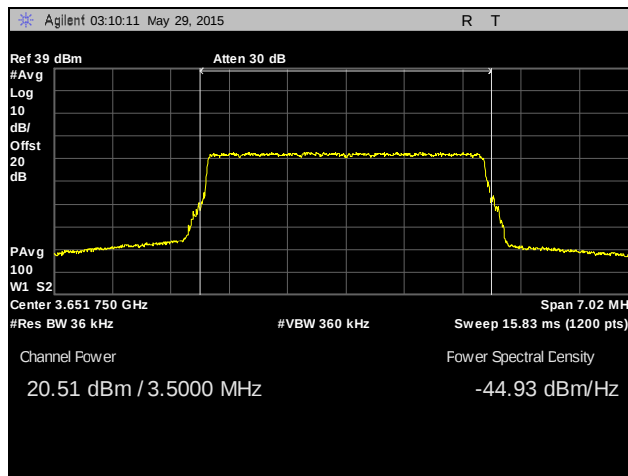
3.5 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit W	Margin
3.65175	3.1	3.48	6.304	29	35.304	3.3915639	3.5	-0.1084361
3.675	3.34	3.38	6.37	29	35.37	3.443499308	3.5	-0.056500692
3.69825	3.42	3.29	6.366	29	35.366	3.4403292	3.5	-0.0596708
5 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.6525	4.91	4.84	7.885	29	36.885	4.880901	5	-0.119099
3.675	4.92	4.9	7.92	29	36.92	4.9203954	5	-0.0796046
3.6975	4.84	4.96	7.911	29	36.911	4.910209249	5	-0.089790751
7 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.6535	6.48	6.38	9.441	29	38.441	6.983932	7	-0.016068
3.675	6.4	6.2	9.311	29	38.311	6.7779756	7	-0.2220244
3.6965	6.43	6.22	9.337	29	38.337	6.81867514	7	-0.18132486
10 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.655	7.91	7.96	10.945	29	39.945	9.8741564	10	-0.1258436
3.675	7.96	8	10.99	29	39.99	9.9770006	10	-0.0229994
3.695	7.86	7.93	10.905	29	39.905	9.7836295	10	-0.2163705
14 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.657	9.34	9.37	12.365	29	41.365	13.693044	14	-0.3069561
3.675	9.44	9.4	12.43	29	41.43	13.899526	14	-0.1004737
3.693	9.4	9.42	12.42	29	41.42	13.867558	14	-0.1324417
20 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.66	10.91	10.85	13.89	29	42.89	19.453601	20	-0.5463992
3.675	10.83	10.95	13.901	29	42.901	19.502936	20	-0.4970638
3.69	10.99	10.81	13.911	29	42.911	19.54789511	20	-0.452104891
Lower 25MHz of 28 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.664	11.93	11.81	14.881	29	43.881	24.439932	25	-0.5600676
3.675	11.92	11.84	14.89	29	43.89	24.490632	25	-0.5093676
3.686	11.85	11.96	14.916	29	43.916	24.637691	25	-0.3623092
Upper 25MHz of 28 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.664	11.79	12.08	14.948	29	43.948	24.81989844	25	-0.180101565
3.675	11.77	11.76	14.775	29	43.775	23.85063795	25	-1.149362045
3.686	11.94	11.97	14.965	29	43.965	24.917244	25	-0.0827563
Lower 25MHz of 30 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.665	11.8	11.86	14.84	29	43.84	24.21029	25	-0.7897095
3.675	11.84	11.95	14.906	29	43.906	24.581026	25	-0.4189743
3.685	11.97	11.94	14.965	29	43.965	24.917244	25	-0.0827563
Upper 25MHz of 30 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.665	11.92	11.93	14.935	29	43.935	24.745715	25	-0.2542854
3.675	11.92	11.86	14.9	29	43.9	24.547089	25	-0.4529108
3.685	11.96	11.81	14.896	29	43.896	24.524491	25	-0.4755091
Lower 25MHz of 40 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit	Margin
3.67	12.16	11.38	14.798	29	43.798	23.977285	25	-1.0227153
3.675	11.82	11.85	14.845	29	43.845	24.23818	25	-0.7618204
3.68	11.98	11.72	14.862	29	43.862	24.333243	25	-0.6667566
Upper 25MHz of 40 MHz								
Frequency	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Sum	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.67	12.21	11.49	14.875	29	43.875	24.406191	25	-0.5938093
3.675	11.85	11.98	14.926	29	43.926	24.694487	25	-0.3055135
3.68	11.85	11.92	14.895	29	43.895	24.518845	25	-0.4811555

Table 6. RF Output Power, Test Results, 29 dBi Antenna Power

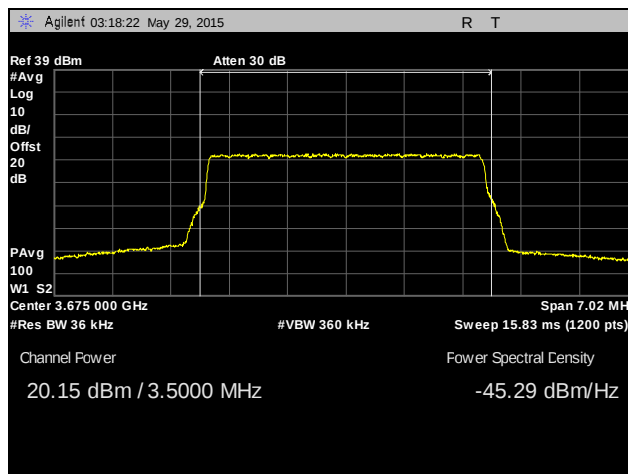
RF Output Power, 12 dBi Antenna



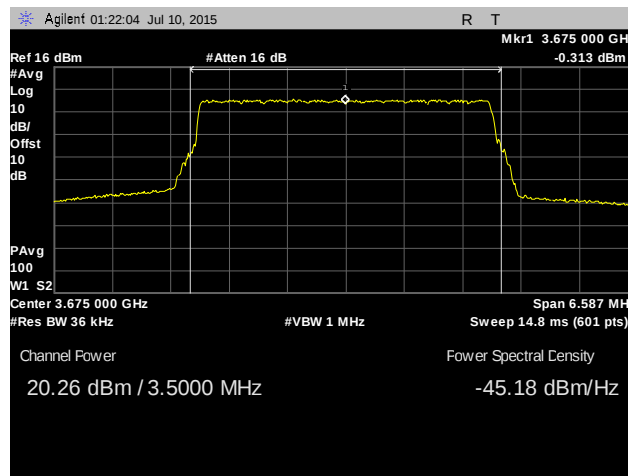
Plot 1. EIRP, Low Channel, 3.5 MHz, Chain 0, 12 dBi Antenna



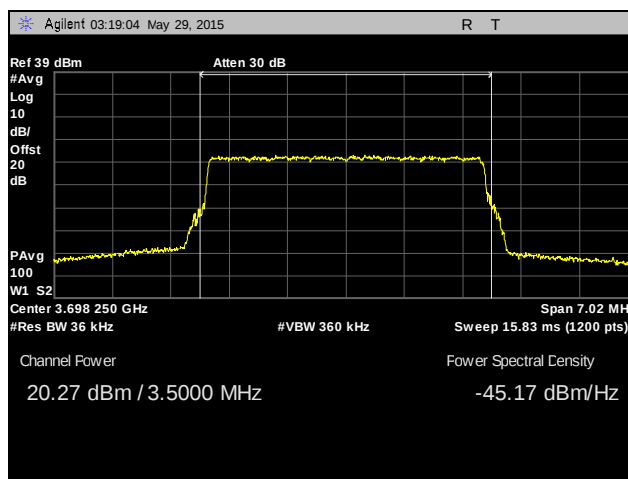
Plot 2. EIRP, Low Channel, 3.5 MHz, Chain 1, 12 dBi Antenna



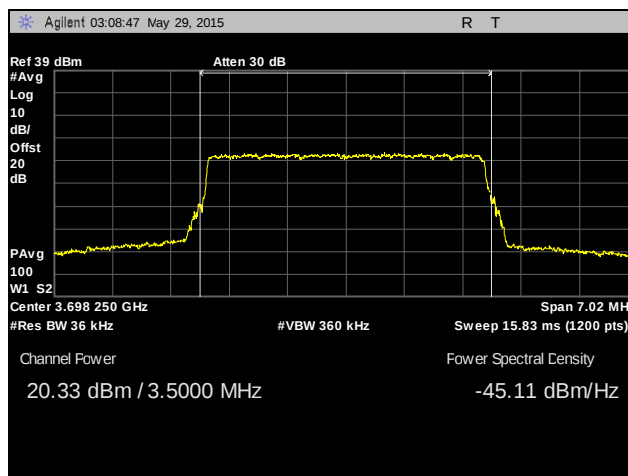
Plot 3. EIRP, Mid Channel, 3.5 MHz, Chain 0, 12 dBi Antenna



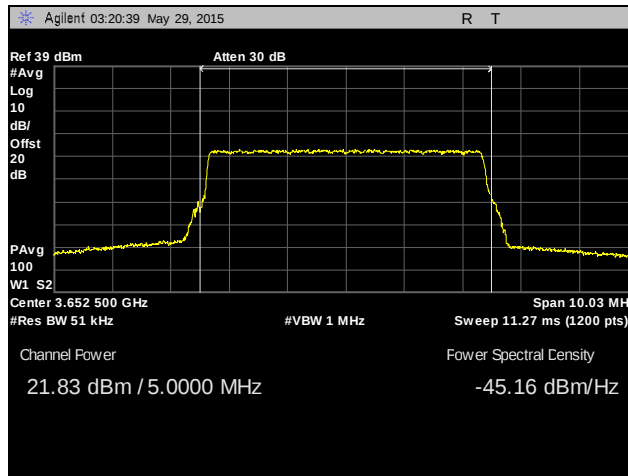
Plot 4. EIRP, Mid Channel, 3.5 MHz, Chain 1, 12 dBi Antenna



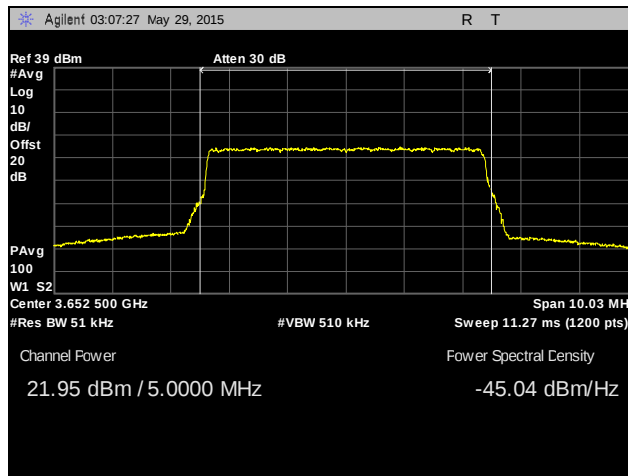
Plot 5. EIRP, High Channel, 3.5 MHz, Chain 0, 12 dBi Antenna



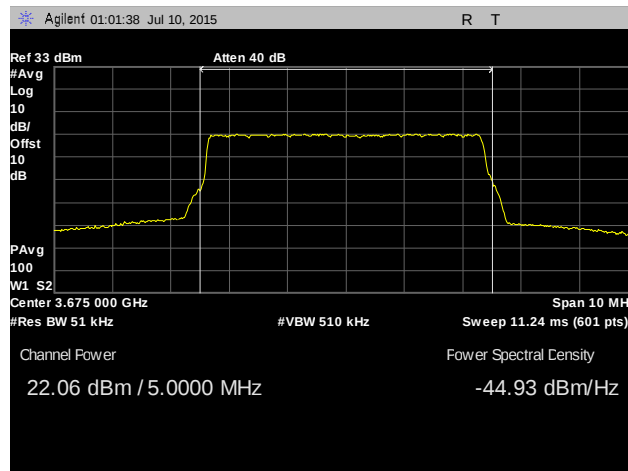
Plot 6. EIRP, High Channel, 3.5 MHz, Chain 1, 12 dBi Antenna



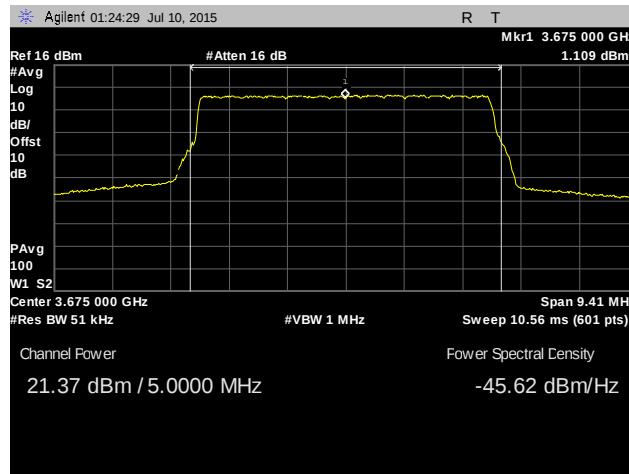
Plot 7. EIRP, Low Channel, 5 MHz, Chain 0, 12 dBi Antenna



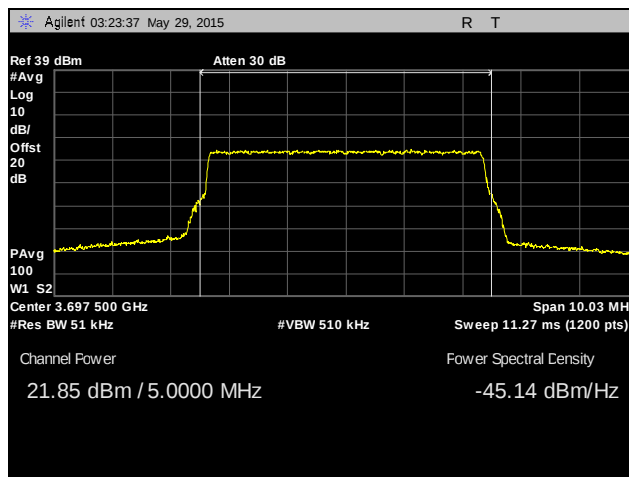
Plot 8. EIRP, Low Channel, 5 MHz, Chain 1, 12 dBi Antenna



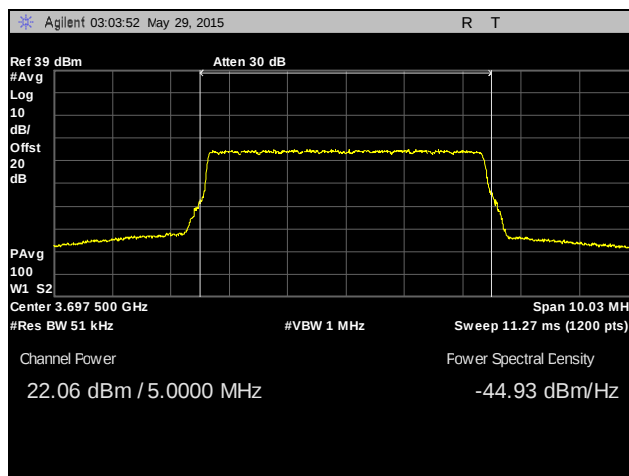
Plot 9. EIRP, Mid Channel, 5 MHz, Chain 0, 12 dBi Antenna



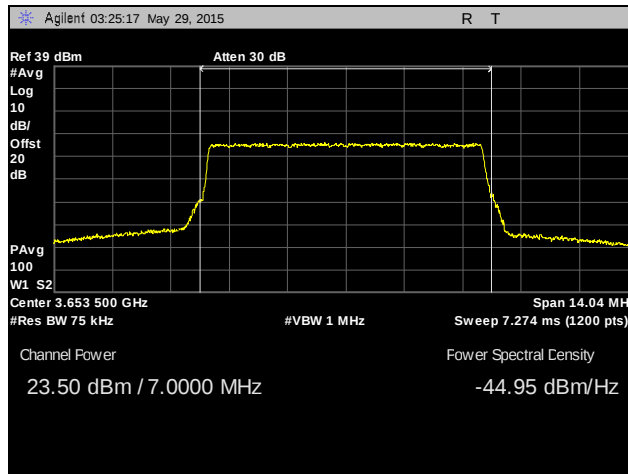
Plot 10. EIRP, Mid Channel, 5 MHz, Chain 1, 12 dBi Antenna



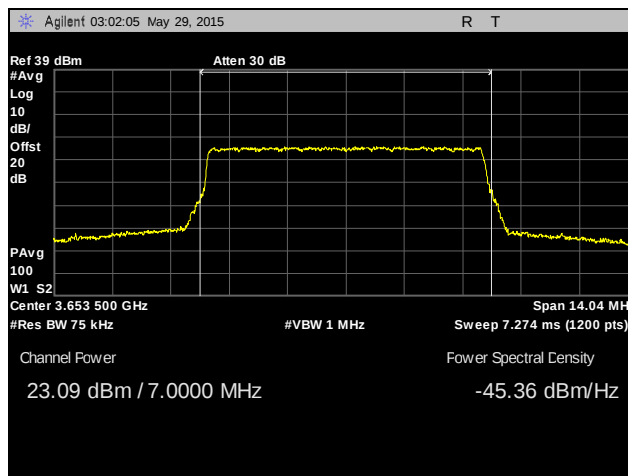
Plot 11. EIRP, High Channel, 5 MHz, Chain 0, 12 dBi Antenna



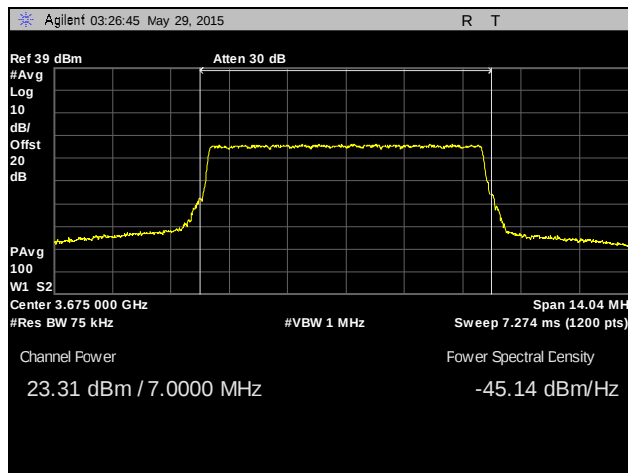
Plot 12. EIRP, High Channel, 5 MHz, Chain 1, 12 dBi Antenna



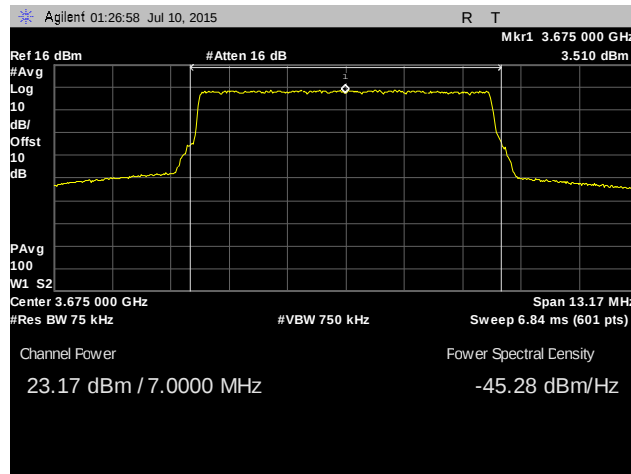
Plot 13. EIRP, Low Channel, 7 MHz, Chain 0, 12 dBi Antenna



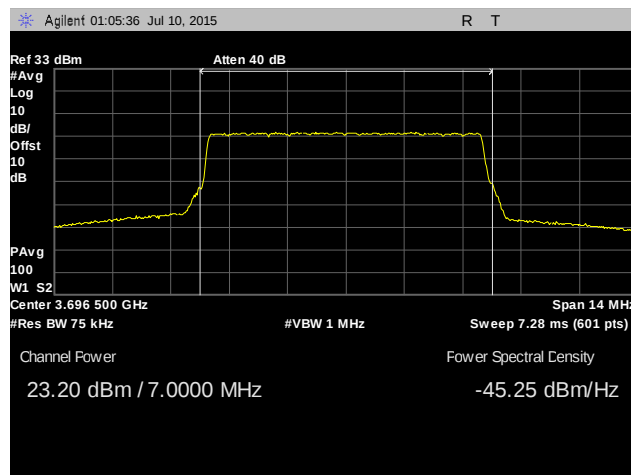
Plot 14. EIRP, Low Channel, 7 MHz, Chain 1, 12 dBi Antenna



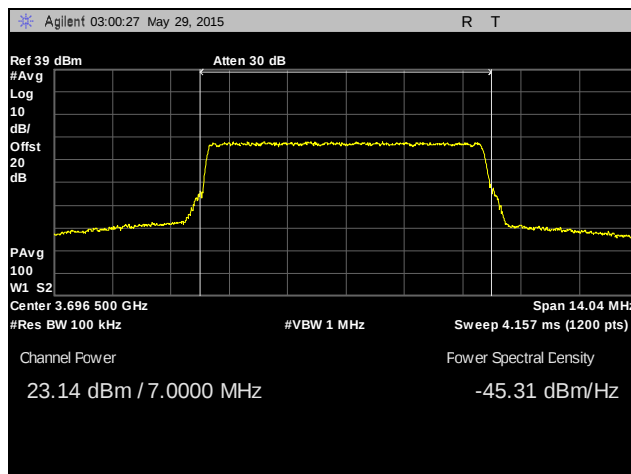
Plot 15. EIRP, Mid Channel, 7 MHz, Chain 0, 12 dBi Antenna



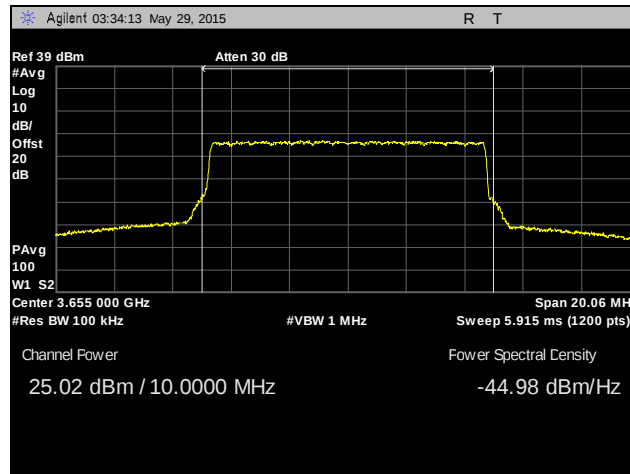
Plot 16. EIRP, Mid Channel, 7 MHz, Chain 1, 12 dBi Antenna



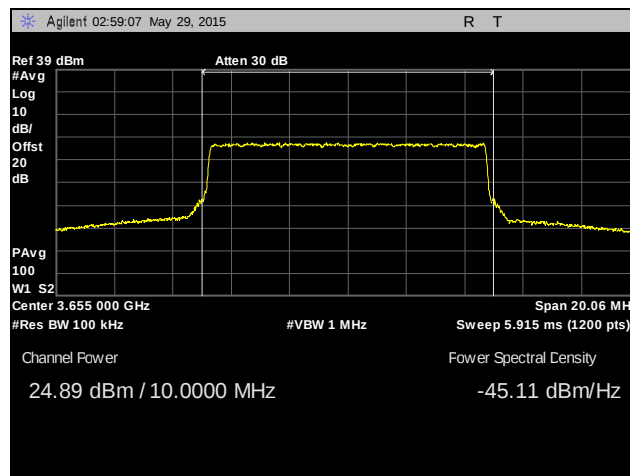
Plot 17. EIRP, High Channel, 7 MHz, Chain 0, 12 dBi Antenna



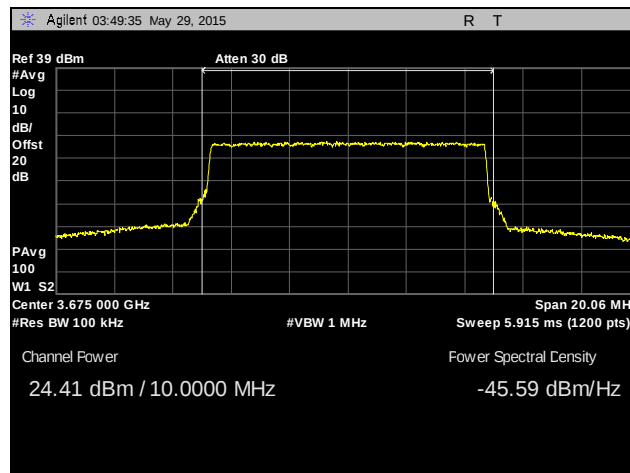
Plot 18. EIRP, High Channel, 7 MHz, Chain 1, 12 dBi Antenna



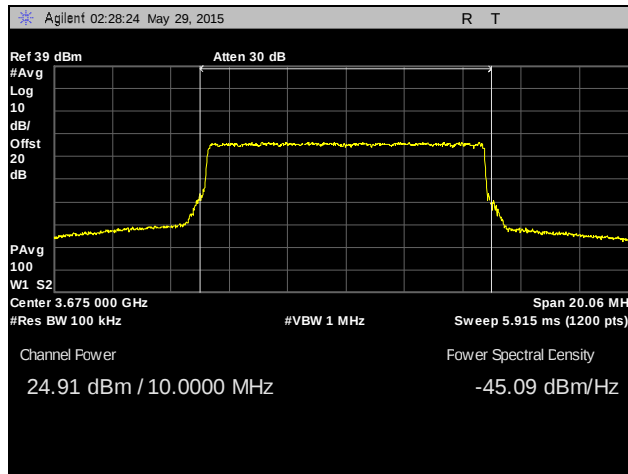
Plot 19. EIRP, Low Channel, 10 MHz, Chain 0, 12 dBi Antenna



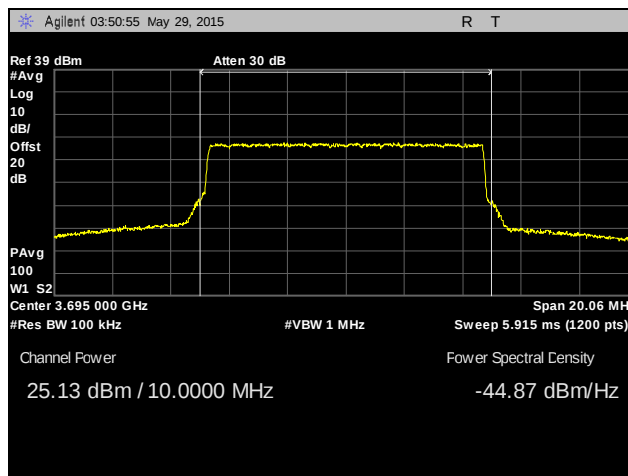
Plot 20. EIRP, Low Channel, 10 MHz, Chain 1, 12 dBi Antenna



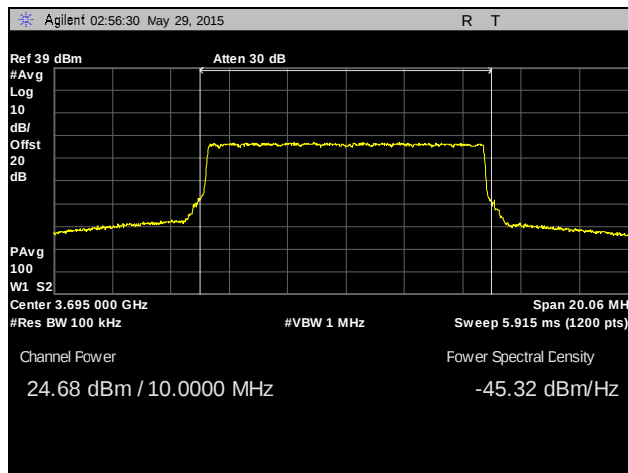
Plot 21. EIRP, Mid Channel, 10 MHz, Chain 0, 12 dBi Antenna



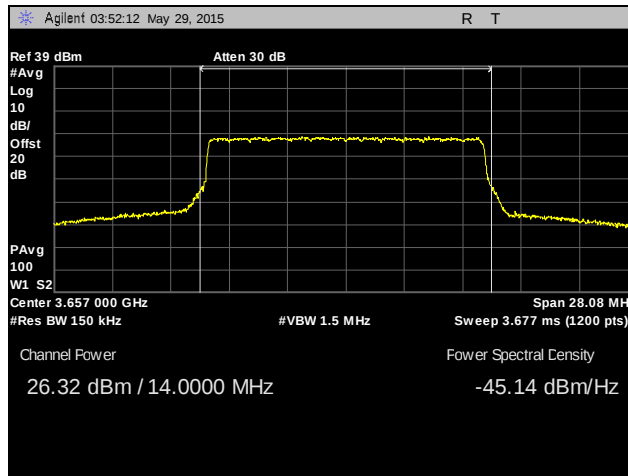
Plot 22. EIRP, Mid Channel, 10 MHz, Chain 1, 12 dBi Antenna



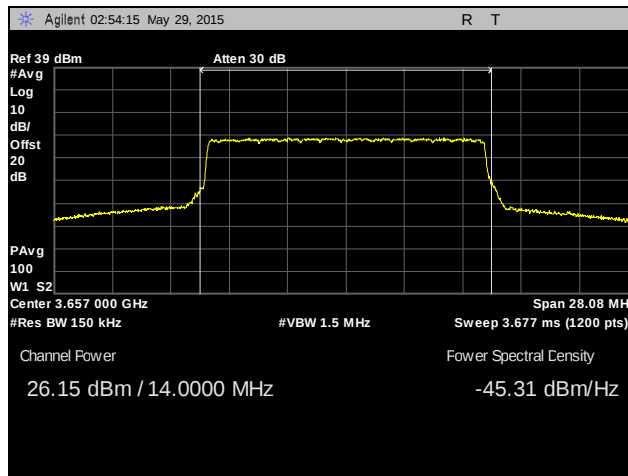
Plot 23. EIRP, High Channel, 10 MHz, Chain 0, 12 dBi Antenna



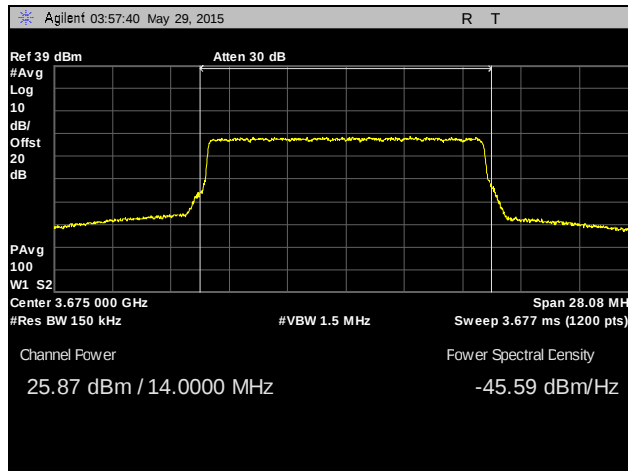
Plot 24. EIRP, High Channel, 10 MHz, Chain 1, 12 dBi Antenna



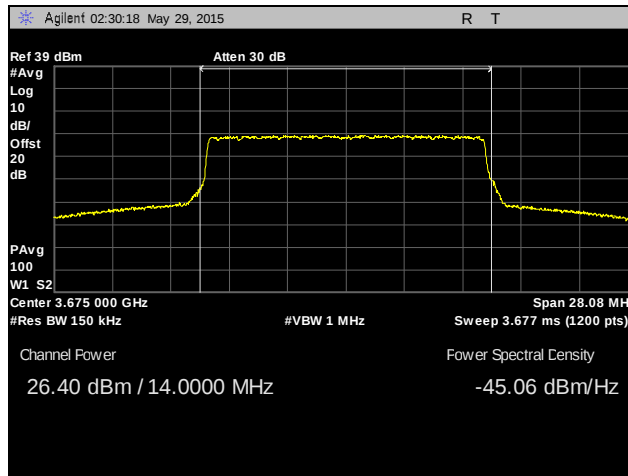
Plot 25. EIRP, Low Channel, 14 MHz, Chain 0, 12 dBi Antenna



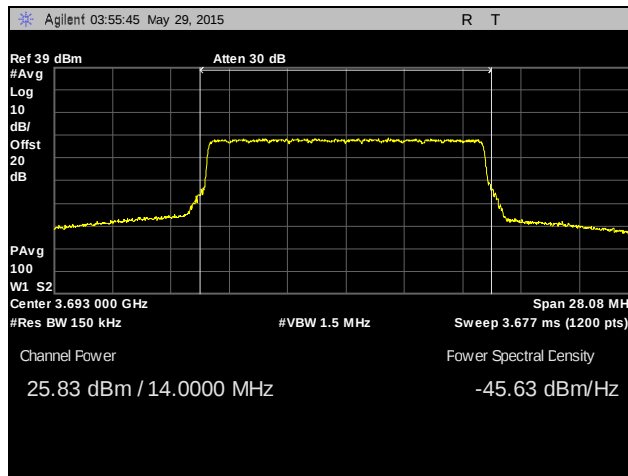
Plot 26. EIRP, Low Channel, 14 MHz, Chain 1, 12 dBi Antenna



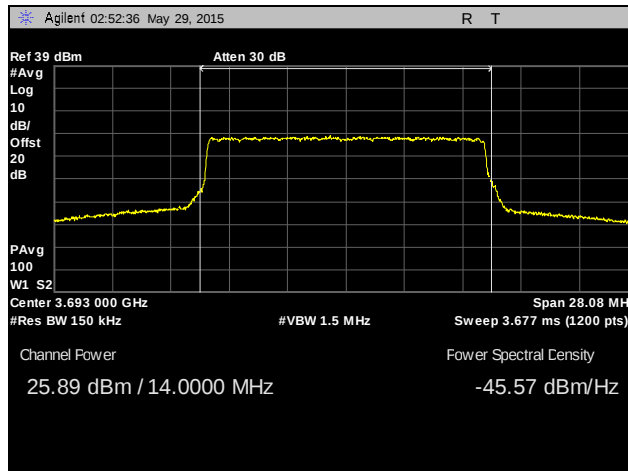
Plot 27. EIRP, Mid Channel, 14 MHz, Chain 0, 12 dBi Antenna



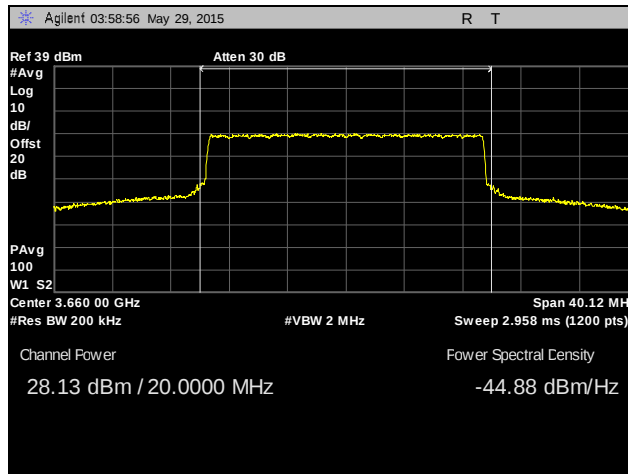
Plot 28. EIRP, Mid Channel, 14 MHz, Chain 1, 12 dBi Antenna



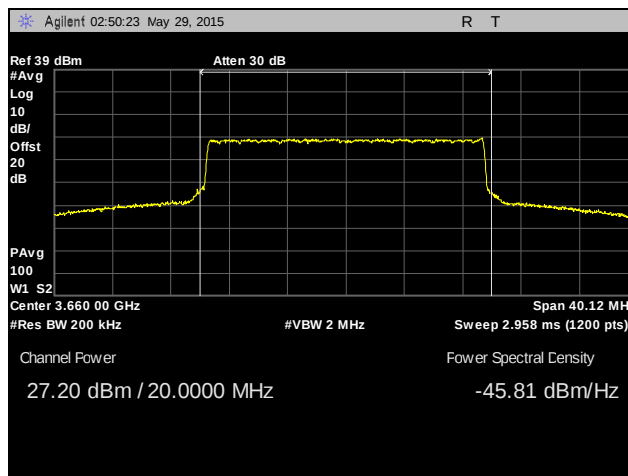
Plot 29. EIRP, High Channel, 14 MHz, Chain 0, 12 dBi Antenna



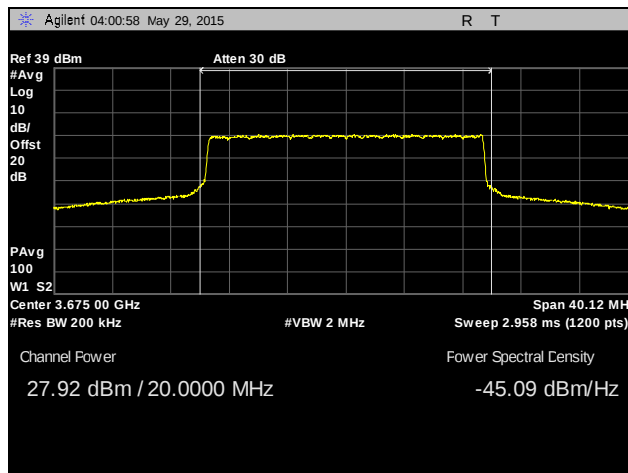
Plot 30. EIRP, High Channel, 14 MHz, Chain 1, 12 dBi Antenna



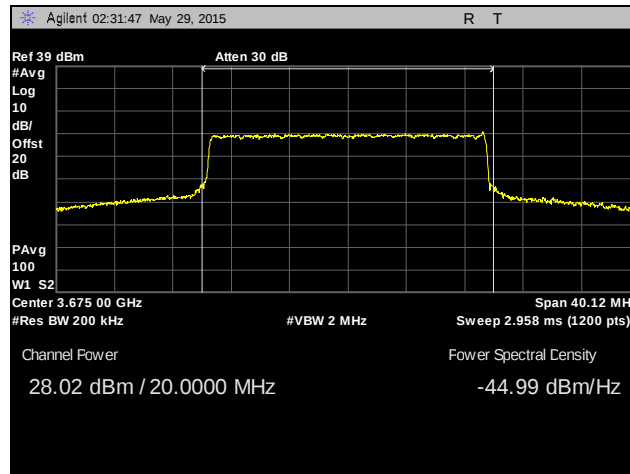
Plot 31. EIRP, Low Channel, 20 MHz, Chain 0, 12 dBi Antenna



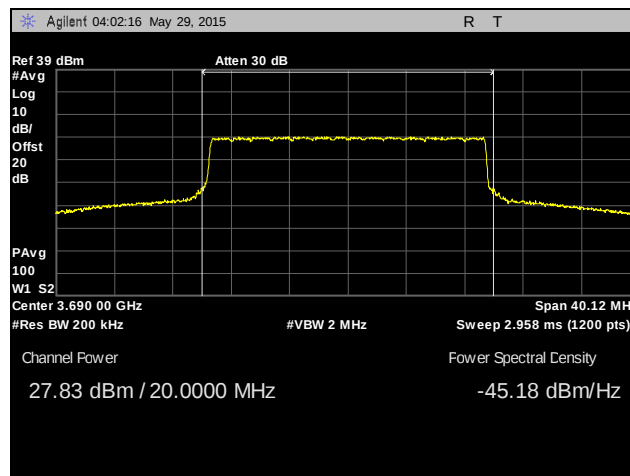
Plot 32. EIRP, Low Channel, 20 MHz, Chain 1, 12 dBi Antenna



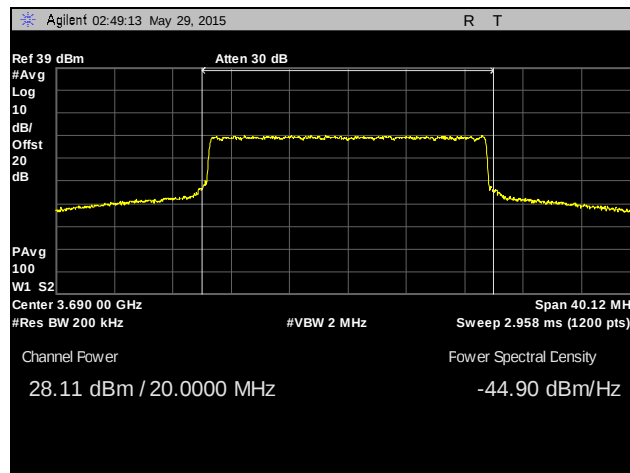
Plot 33. EIRP, Mid Channel, 20 MHz, Chain 0, 12 dBi Antenna



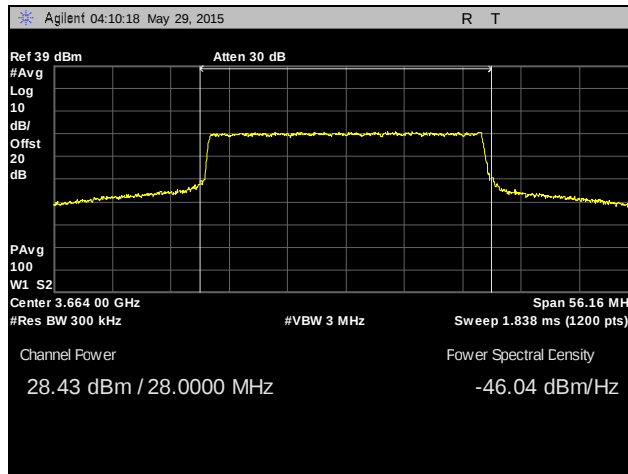
Plot 34. EIRP, Mid Channel, 20 MHz, Chain 1, 12 dBi Antenna



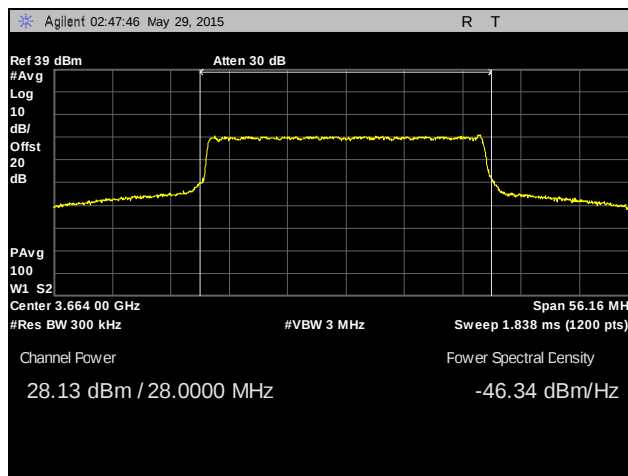
Plot 35. EIRP, High Channel, 20 MHz, Chain 0, 12 dBi Antenna



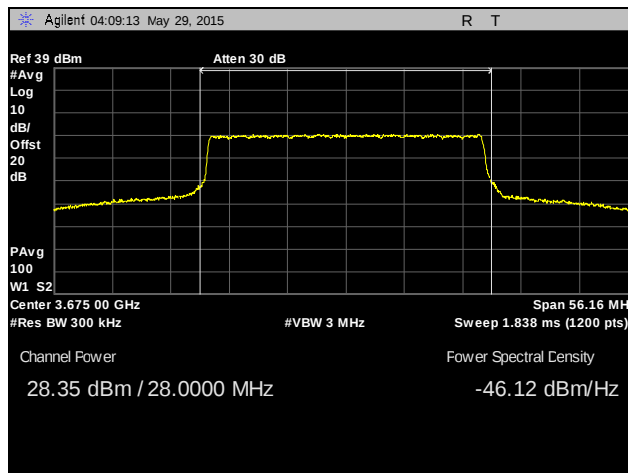
Plot 36. EIRP, High Channel, 20 MHz, Chain 1, 12 dBi Antenna



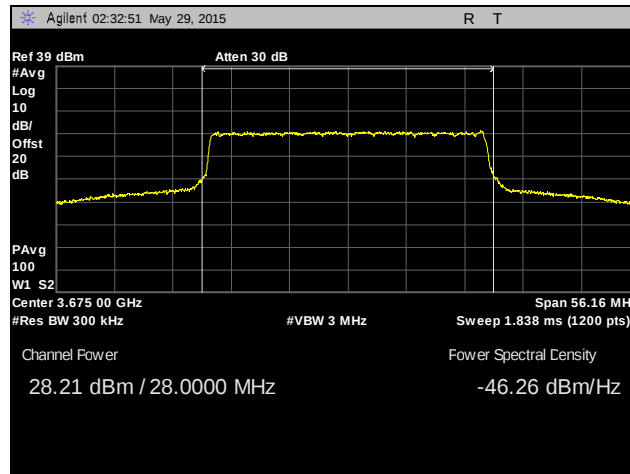
Plot 37. EIRP, Low Channel, 28 MHz, Chain 0, 12 dBi Antenna



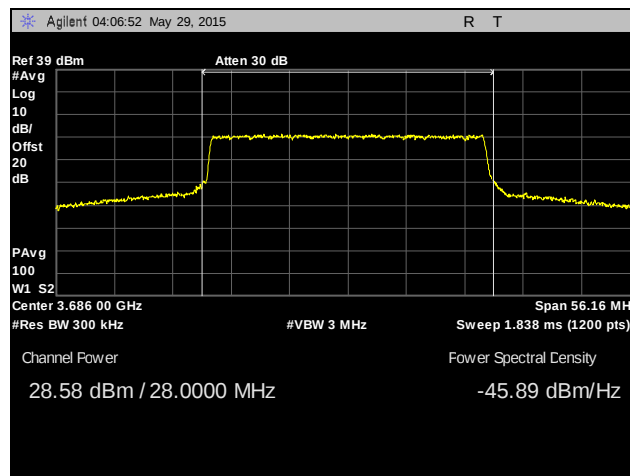
Plot 38. EIRP, Low Channel, 28 MHz, Chain 1, 12 dBi Antenna



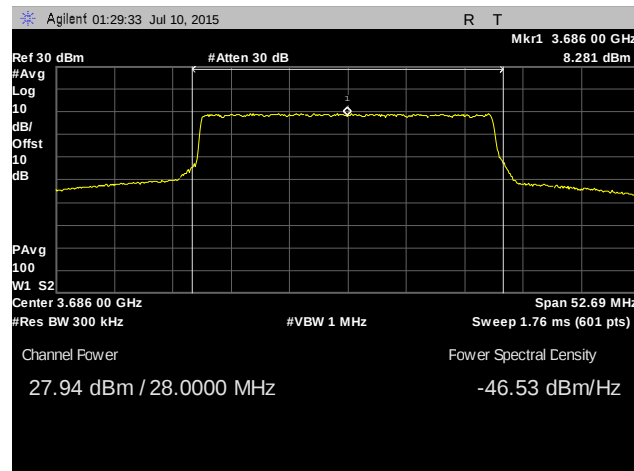
Plot 39. EIRP, Mid Channel, 28 MHz, Chain 0, 12 dBi Antenna



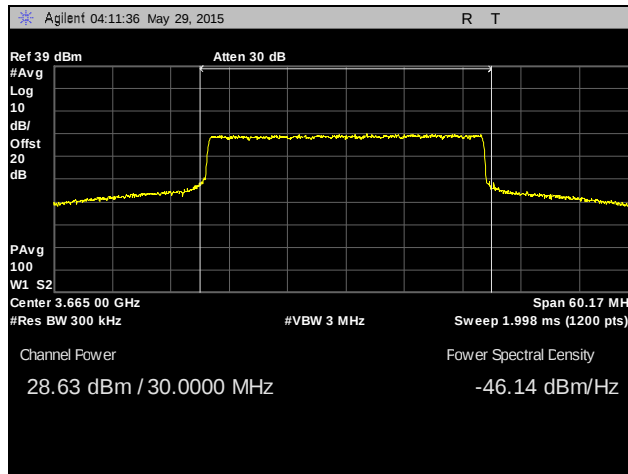
Plot 40. EIRP, Mid Channel, 28 MHz, Chain 1, 12 dBi Antenna



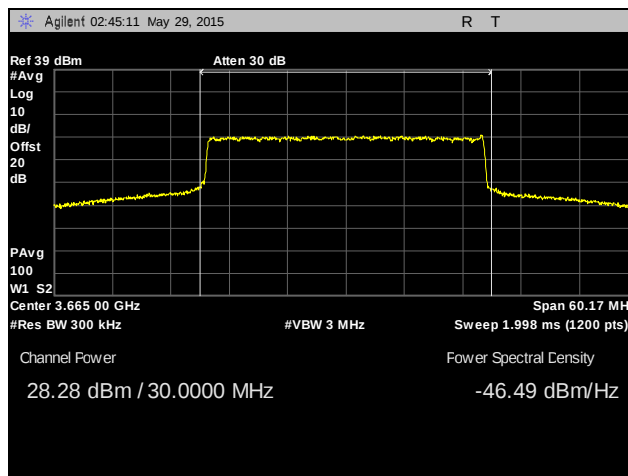
Plot 41. EIRP, High Channel, 28 MHz, Chain 0, 12 dBi Antenna



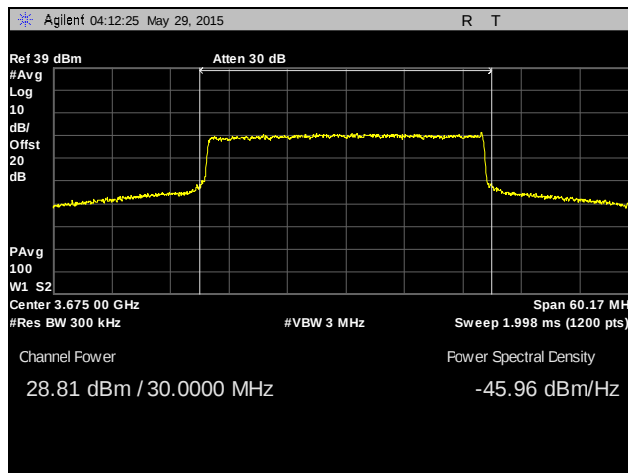
Plot 42. EIRP, High Channel, 28 MHz, Chain 1, 12 dBi Antenna



Plot 43. EIRP, Low Channel, 30 MHz, Chain 0, 12 dBi Antenna



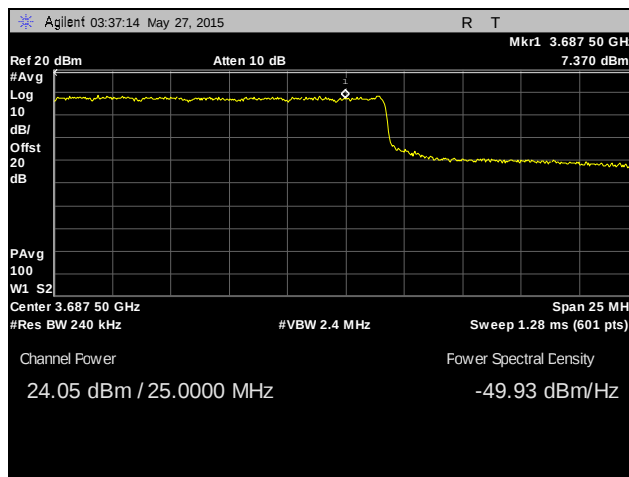
Plot 44. EIRP, Low Channel, 30 MHz, Chain 1, 12 dBi Antenna



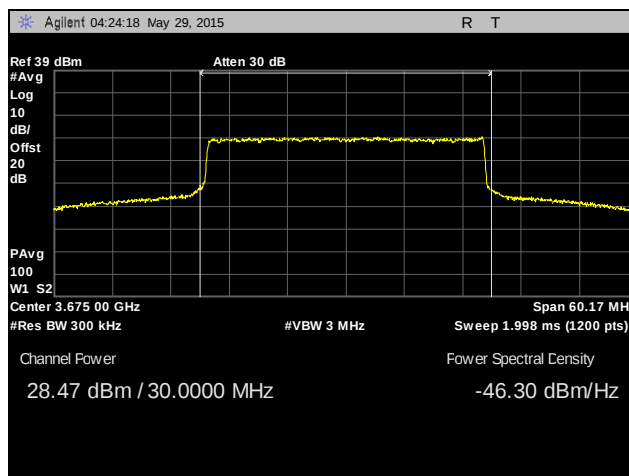
Plot 45. EIRP, Mid Channel, 30 MHz, Chain 0, 12 dBi Antenna



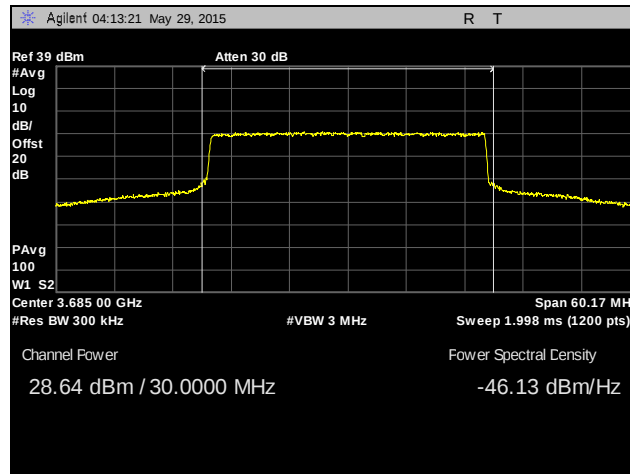
Plot 46. EIRP, Mid Channel, 30 MHz, Chain 0, Lower 25 MHz, 12 dBi Antenna



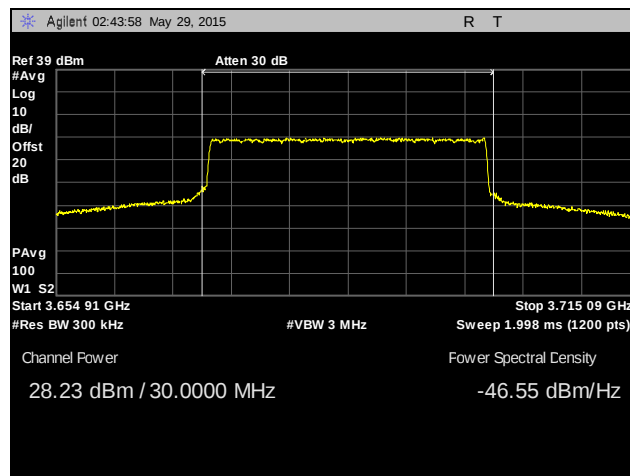
Plot 47. EIRP, Mid Channel, 30 MHz, Chain 0, Upper 25 MHz, 12 dBi Antenna



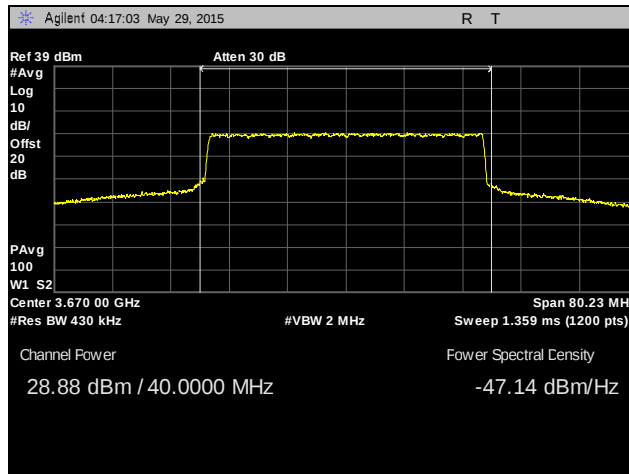
Plot 48. EIRP, Mid Channel, 30 MHz, Chain 1, 12 dBi Antenna



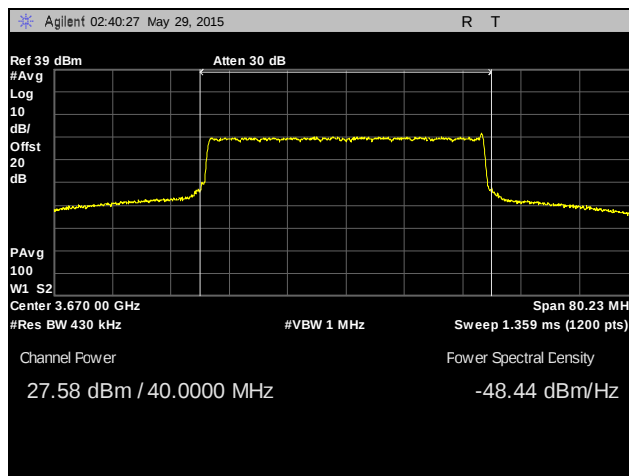
Plot 49. EIRP, High Channel, 30 MHz, Chain 0, 12 dBi Antenna



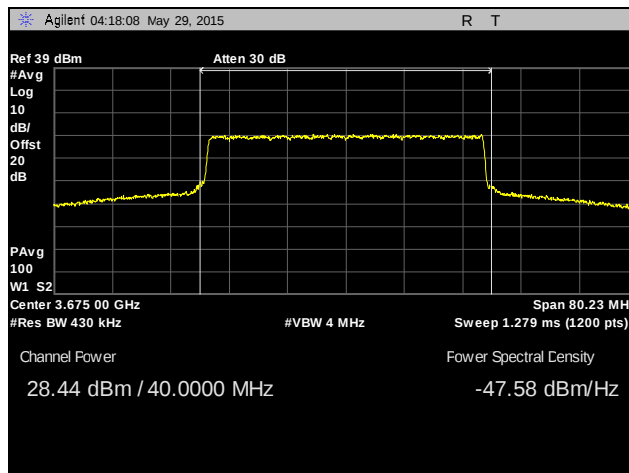
Plot 50. EIRP, High Channel, 30 MHz, Chain 1, 12 dBi Antenna



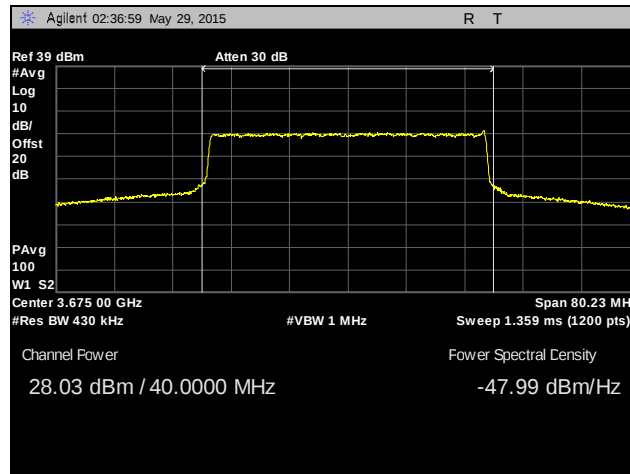
Plot 51. EIRP, Low Channel, 40 MHz, Chain 0, 12 dBi Antenna



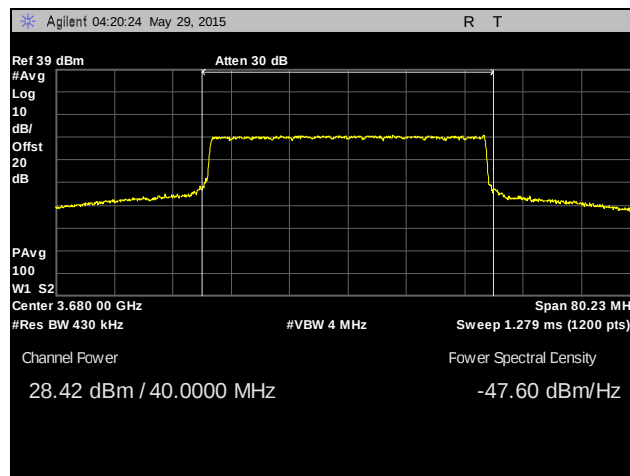
Plot 52. EIRP, Low Channel, 40 MHz, Chain 1, 12 dBi Antenna



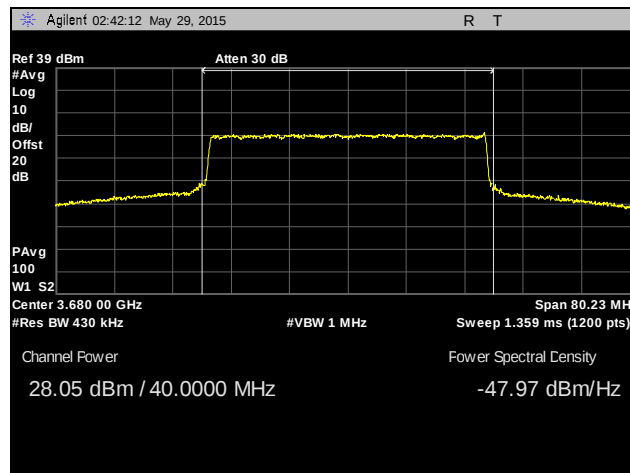
Plot 53. EIRP, Mid Channel, 40 MHz, Chain 0, 12 dBi Antenna



Plot 54. EIRP, Mid Channel, 40 MHz, Chain 1, 12 dBi Antenna

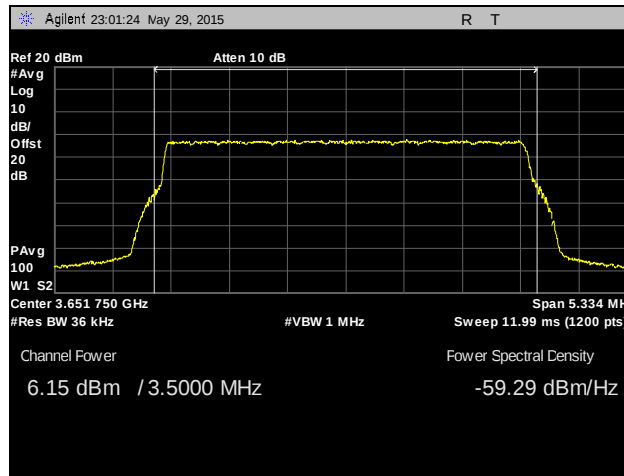


Plot 55. EIRP, High Channel, 40 MHz, Chain 0, 12 dBi Antenna

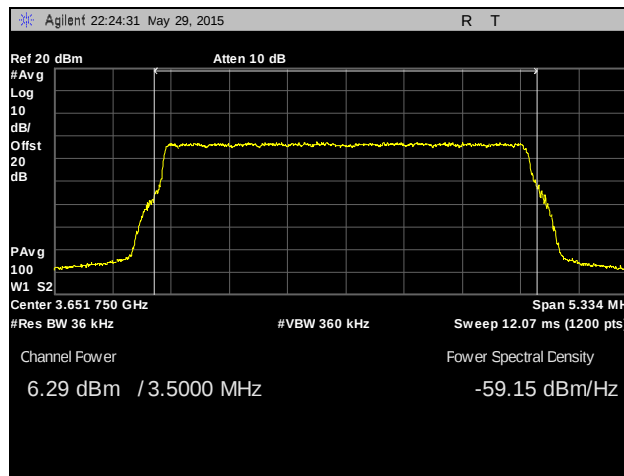


Plot 56. EIRP, High Channel, 40 MHz, Chain 1, 12 dBi Antenna

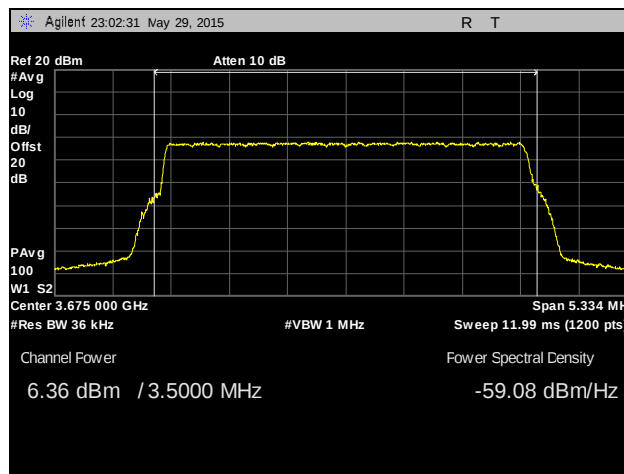
RF Output Power, 26 dBi Antenna



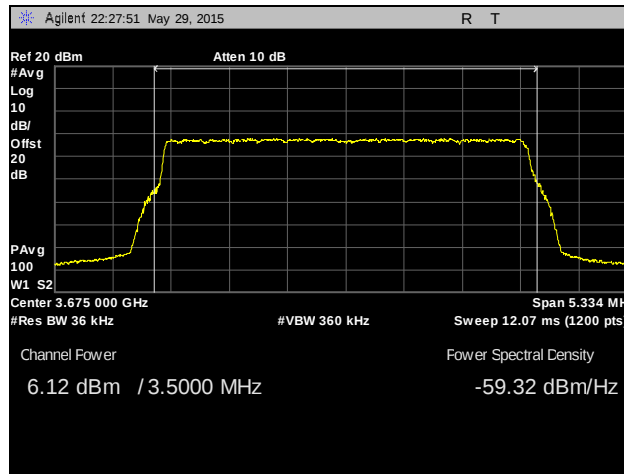
Plot 57. EIRP, Low Channel, 3.5 MHz, Chain 0, 26 dBi Antenna



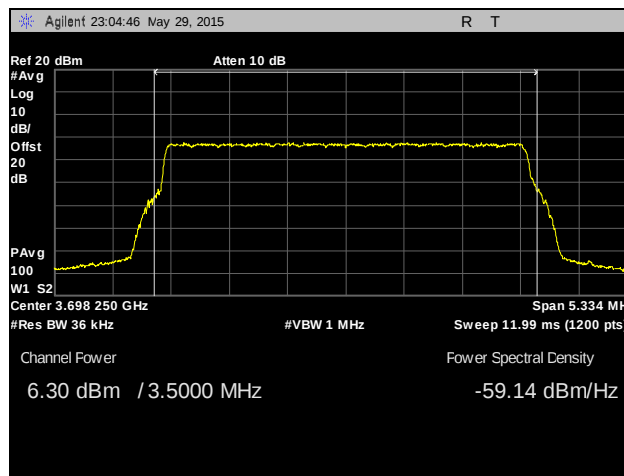
Plot 58. EIRP, Low Channel, 3.5 MHz, Chain 1, 26 dBi Antenna



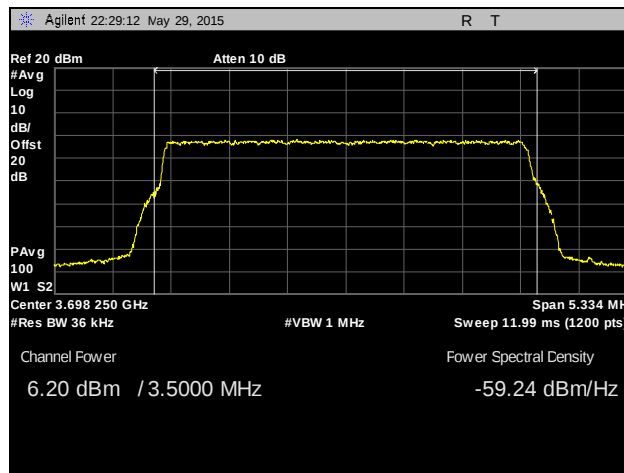
Plot 59. EIRP, Mid Channel, 3.5 MHz, Chain 0, 26 dBi Antenna



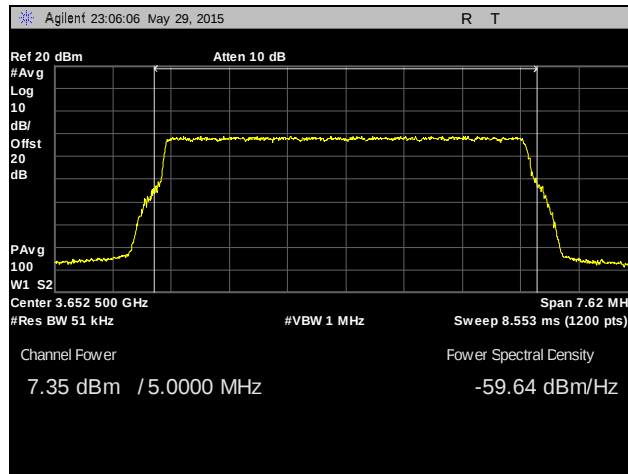
Plot 60. EIRP, Mid Channel, 3.5 MHz, Chain 1, 26 dBi Antenna



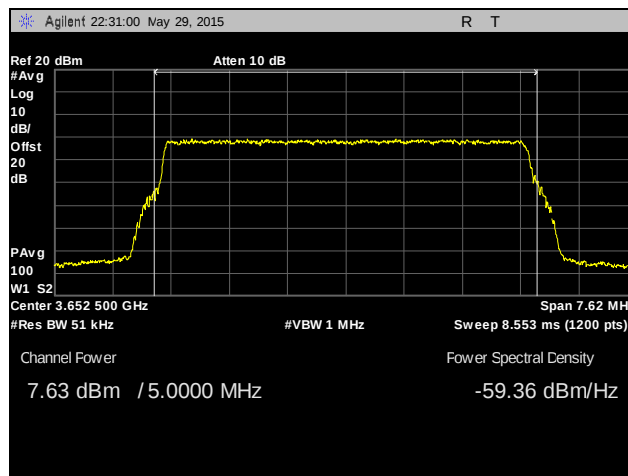
Plot 61. EIRP, High Channel, 3.5 MHz, Chain 0, 26 dBi Antenna



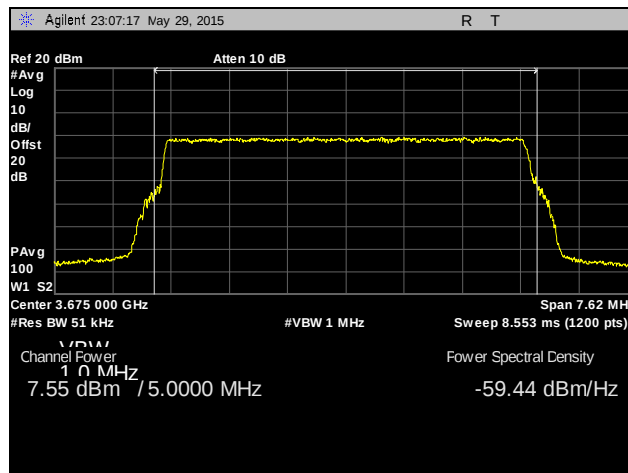
Plot 62. EIRP, High Channel, 3.5 MHz, Chain 1, 26 dBi Antenna



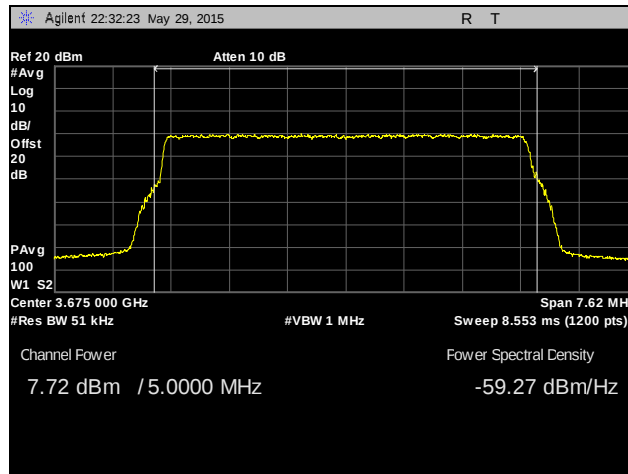
Plot 63. EIRP, Low Channel, 5 MHz, Chain 0, 26 dBi Antenna



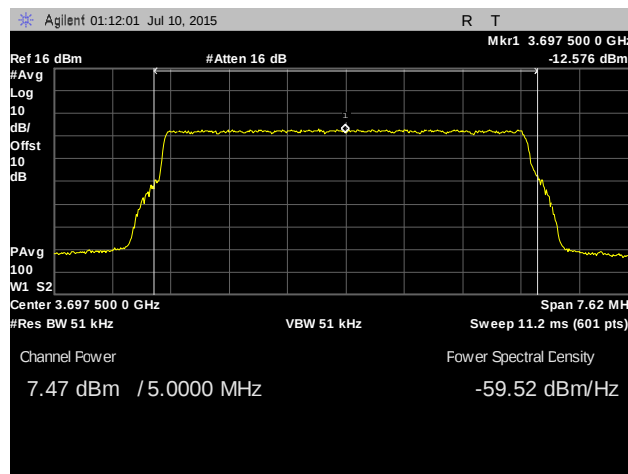
Plot 64. EIRP, Low Channel, 5 MHz, Chain 1, 26 dBi Antenna



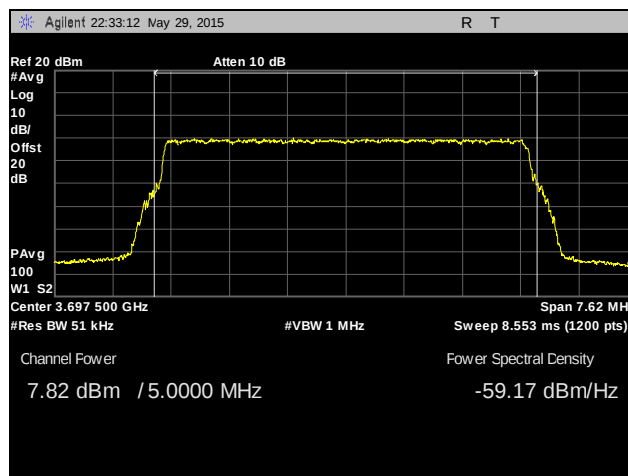
Plot 65. EIRP, Mid Channel, 5 MHz, Chain 0, 26 dBi Antenna



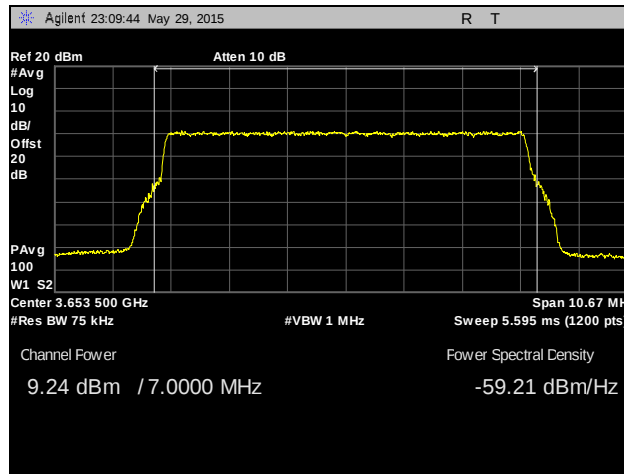
Plot 66. EIRP, Mid Channel, 5 MHz, Chain 1, 26 dBi Antenna



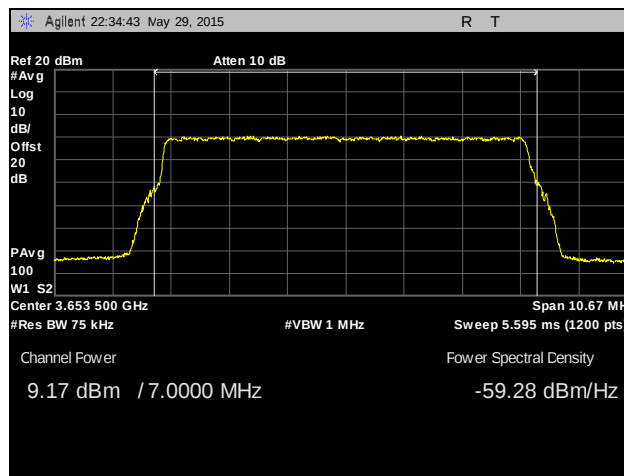
Plot 67. EIRP, High Channel, 5 MHz, Chain 0, 26 dBi Antenna



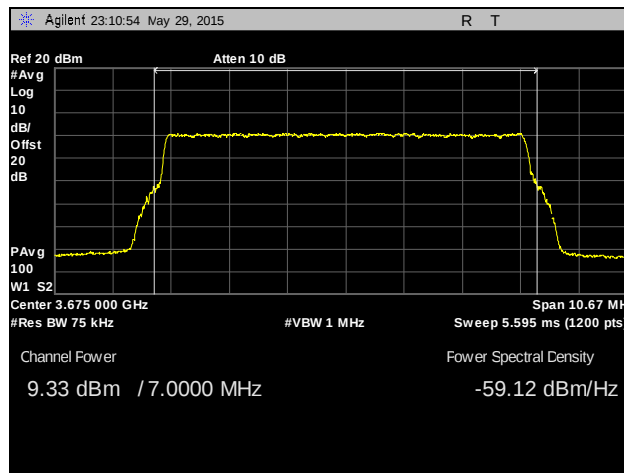
Plot 68. EIRP, High Channel, 5 MHz, Chain 1, 26 dBi Antenna



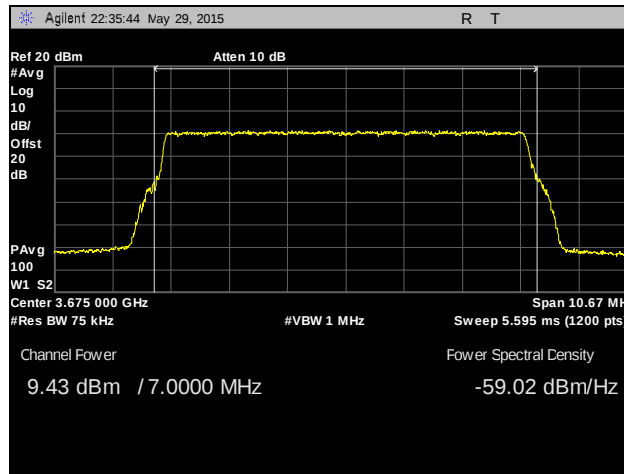
Plot 69. EIRP, Low Channel, 7 MHz, Chain 0, 26 dBi Antenna



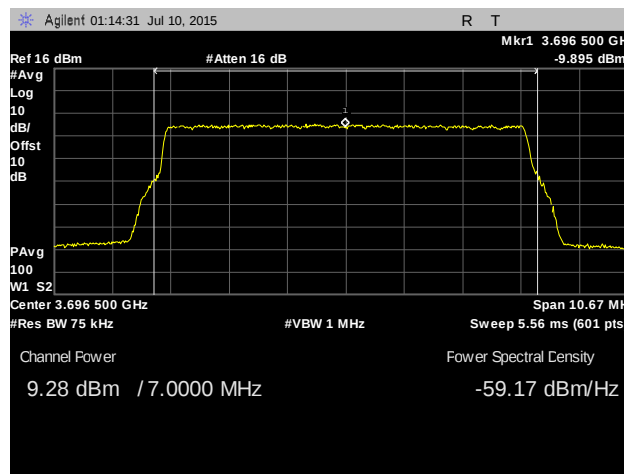
Plot 70. EIRP, Low Channel, 7 MHz, Chain 1, 26 dBi Antenna



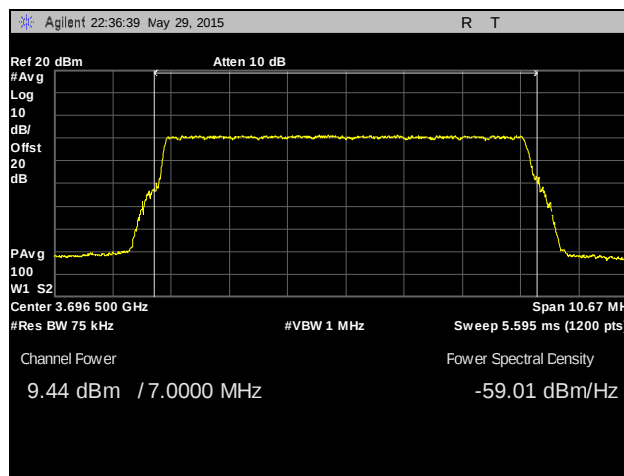
Plot 71. EIRP, Mid Channel, 7 MHz, Chain 0, 26 dBi Antenna



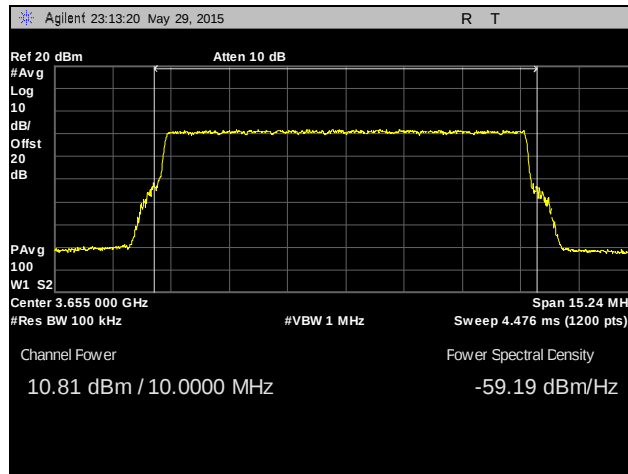
Plot 72. EIRP, Mid Channel, 7 MHz, Chain 1, 26 dBi Antenna



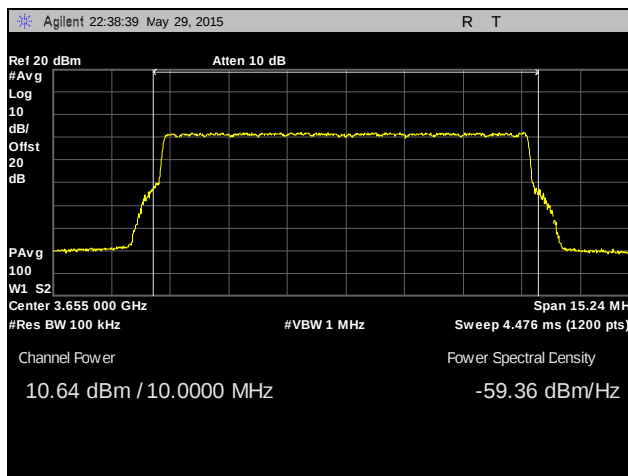
Plot 73. EIRP, High Channel, 7 MHz, Chain 0, 26 dBi Antenna



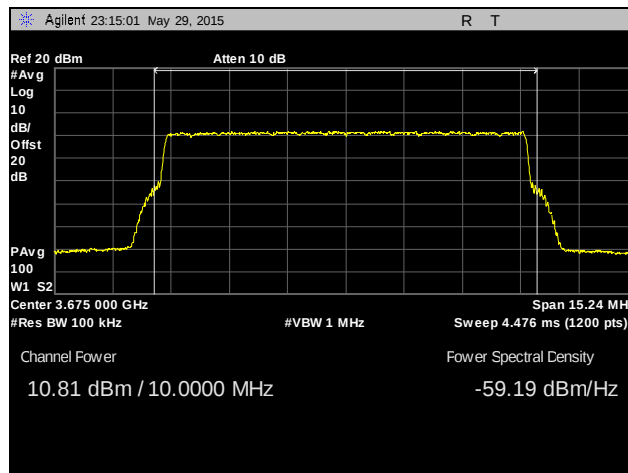
Plot 74. EIRP, High Channel, 7 MHz, Chain 1, 26 dBi Antenna



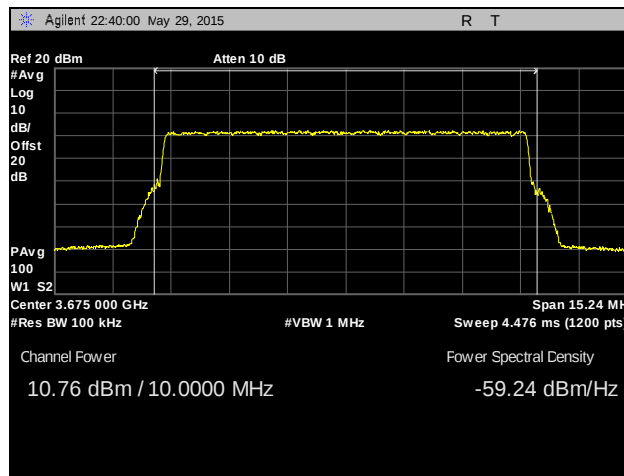
Plot 75. EIRP, Low Channel, 10 MHz, Chain 0, 26 dBi Antenna



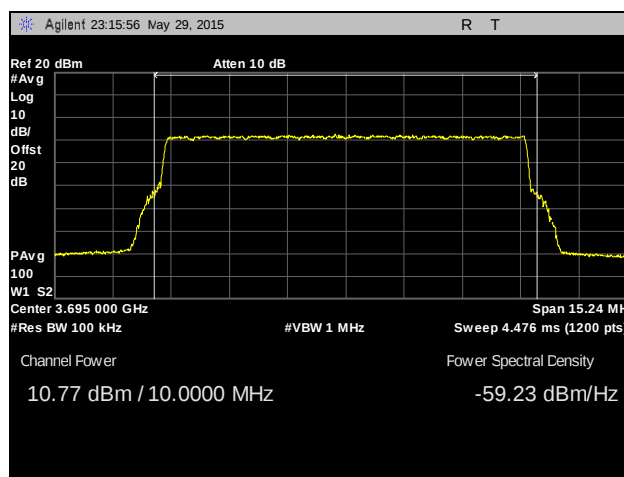
Plot 76. EIRP, Low Channel, 10 MHz, Chain 1, 26 dBi Antenna



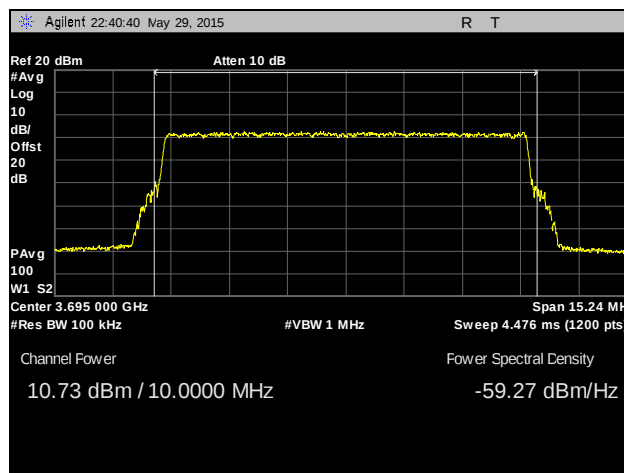
Plot 77. EIRP, Mid Channel, 10 MHz, Chain 0, 26 dBi Antenna



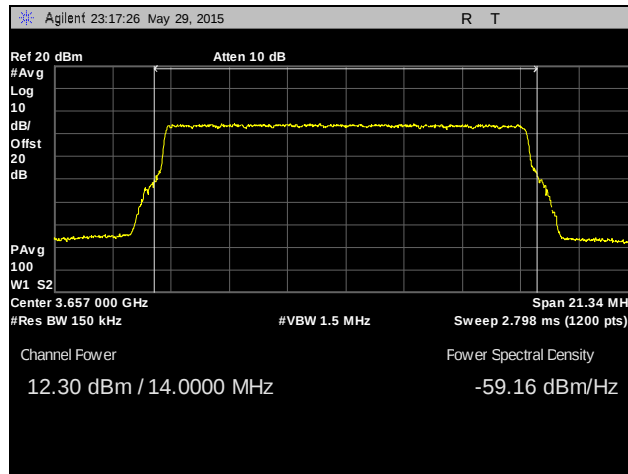
Plot 78. EIRP, Mid Channel, 10 MHz, Chain 1, 26 dBi Antenna



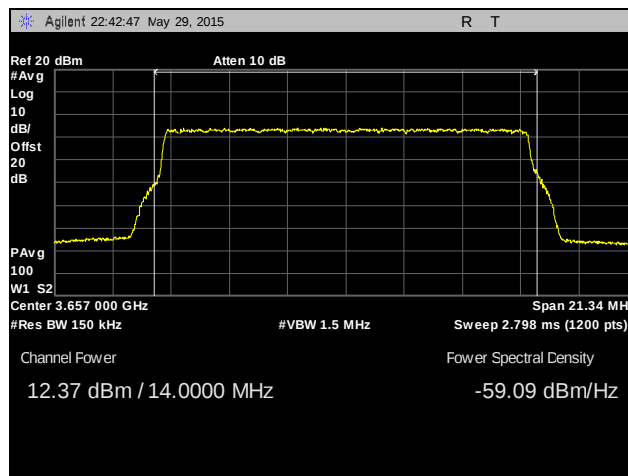
Plot 79. EIRP, High Channel, 10 MHz, Chain 0, 26 dBi Antenna



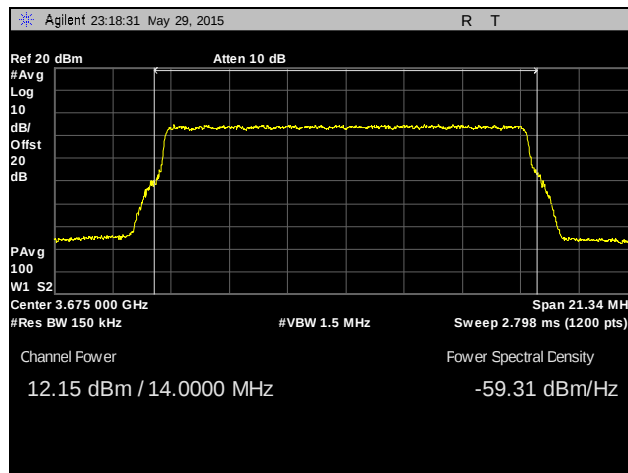
Plot 80. EIRP, High Channel, 10 MHz, Chain 1, 26 dBi Antenna



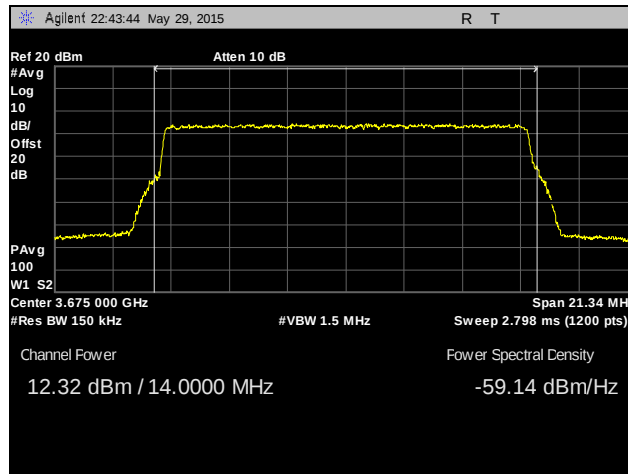
Plot 81. EIRP, Low Channel, 14 MHz, Chain 0, 26 dBi Antenna



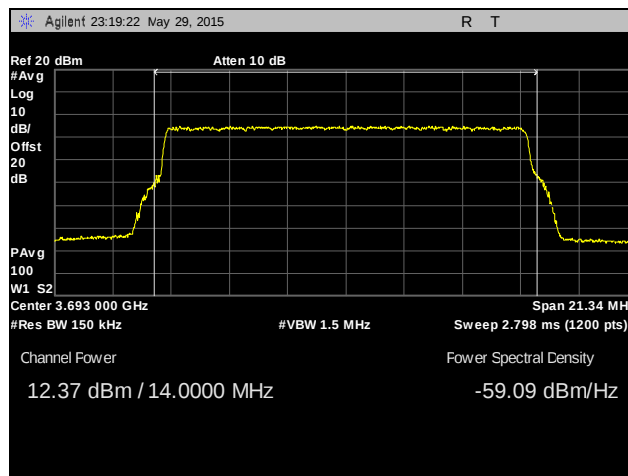
Plot 82. EIRP, Low Channel, 14 MHz, Chain 1, 26 dBi Antenna



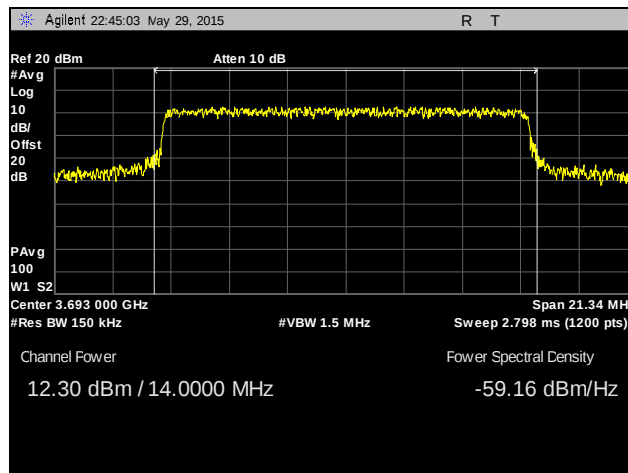
Plot 83. EIRP, Mid Channel, 14 MHz, Chain 0, 26 dBi Antenna



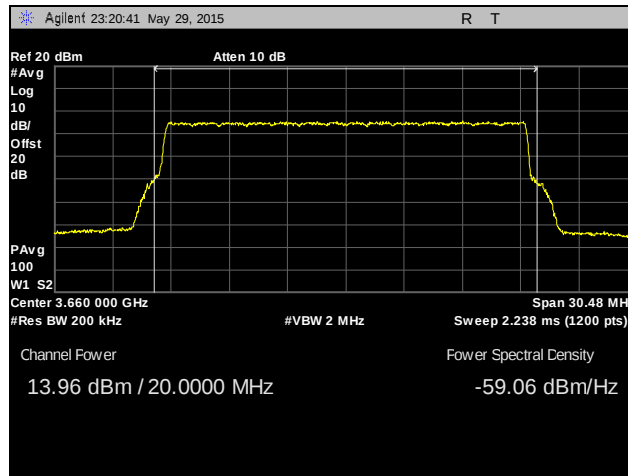
Plot 84. EIRP, Mid Channel, 14 MHz, Chain 1, 26 dBi Antenna



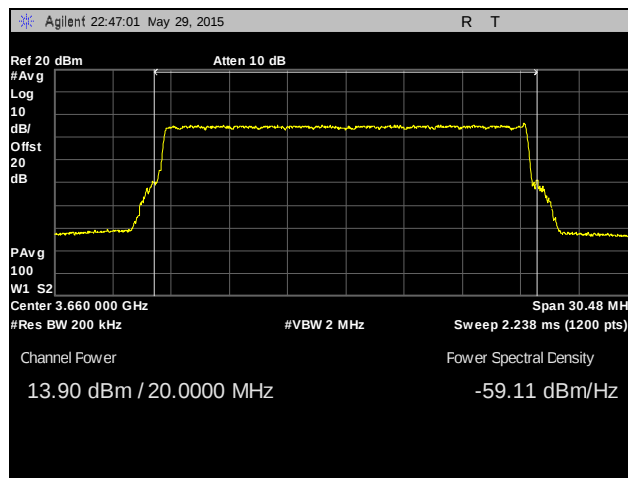
Plot 85. EIRP, High Channel, 14 MHz, Chain 0, 26 dBi Antenna



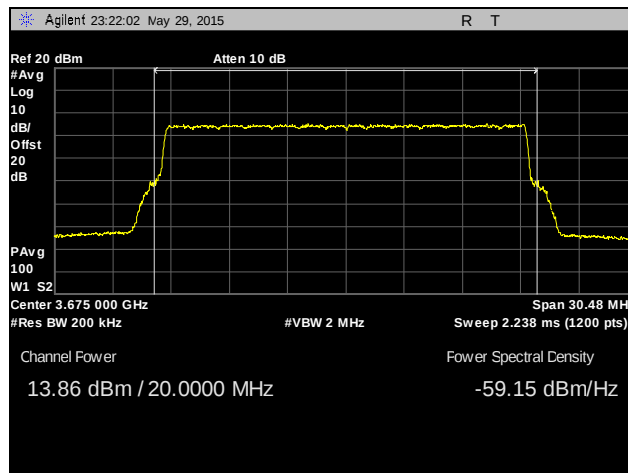
Plot 86. EIRP, High Channel, 14 MHz, Chain 1, 26 dBi Antenna



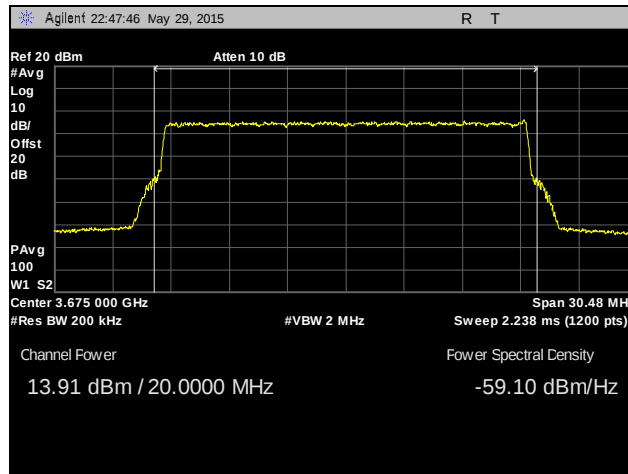
Plot 87. EIRP, Low Channel, 20 MHz, Chain 0, 26 dBi Antenna



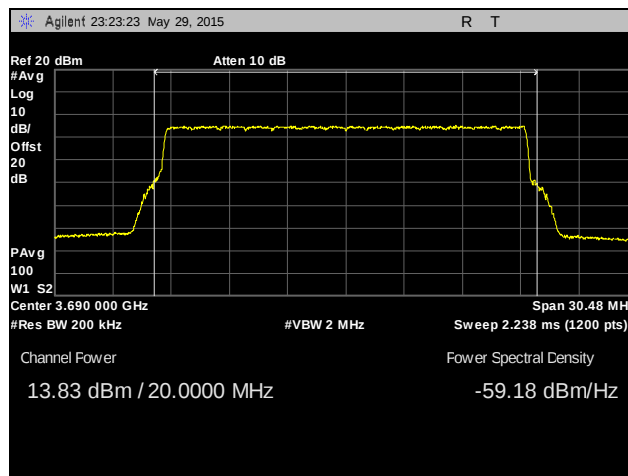
Plot 88. EIRP, Low Channel, 20 MHz, Chain 1, 26 dBi Antenna



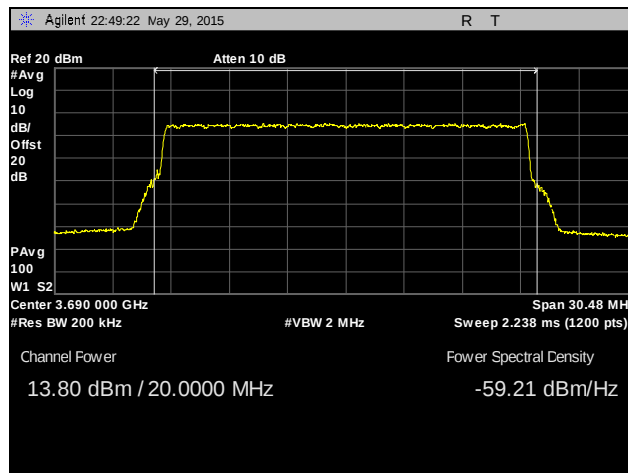
Plot 89. EIRP, Mid Channel, 20 MHz, Chain 0, 26 dBi Antenna



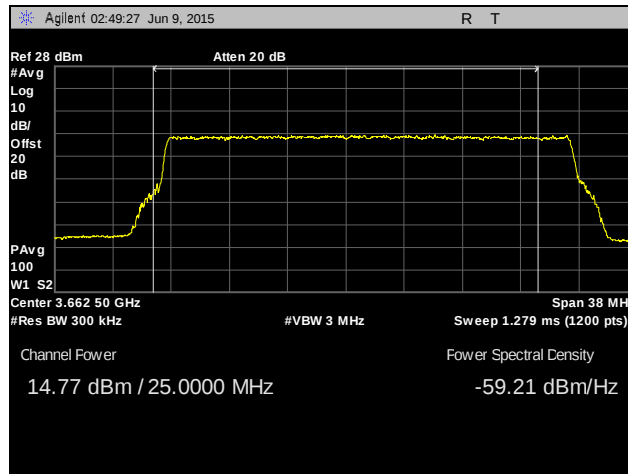
Plot 90. EIRP, Mid Channel, 20 MHz, Chain 1, 26 dBi Antenna



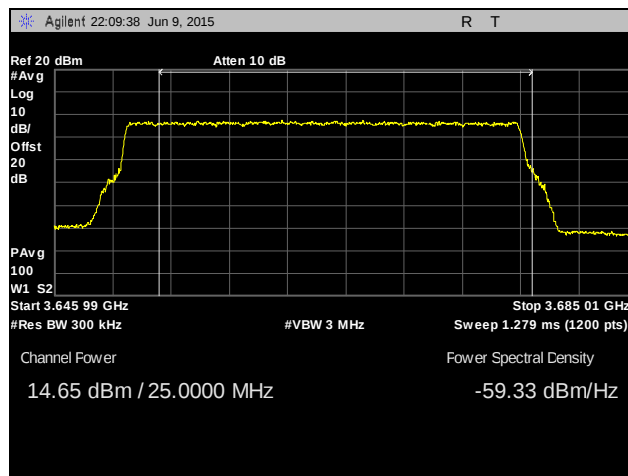
Plot 91. EIRP, High Channel, 20 MHz, Chain 0, 26 dBi Antenna



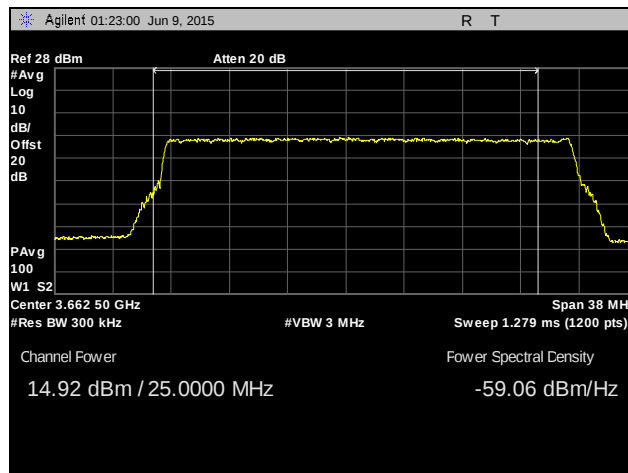
Plot 92. EIRP, High Channel, 20 MHz, Chain 1, 26 dBi Antenna



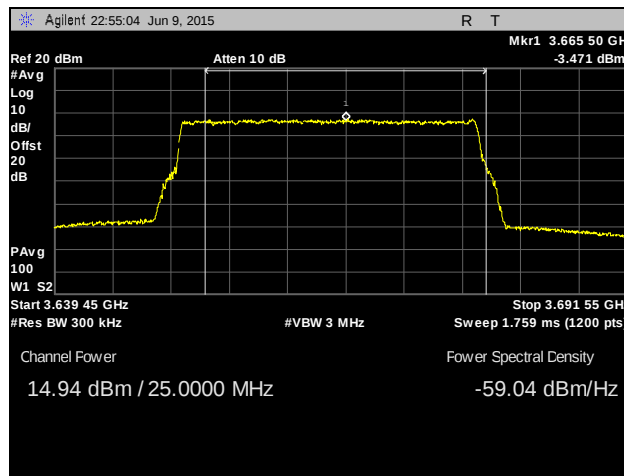
Plot 93. EIRP, Low Channel, 28 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



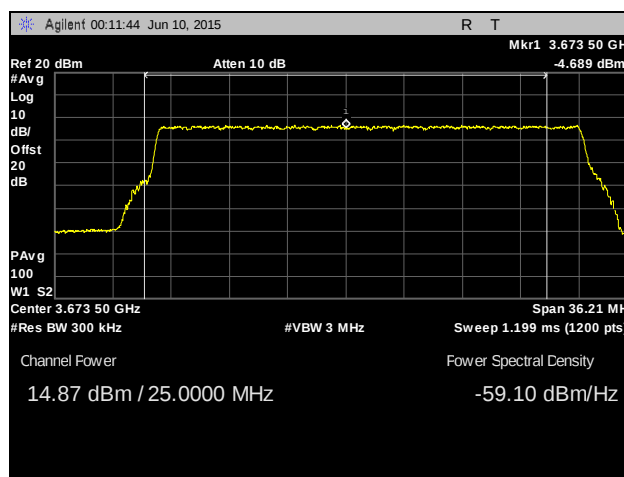
Plot 94. EIRP, Low Channel, 28 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna



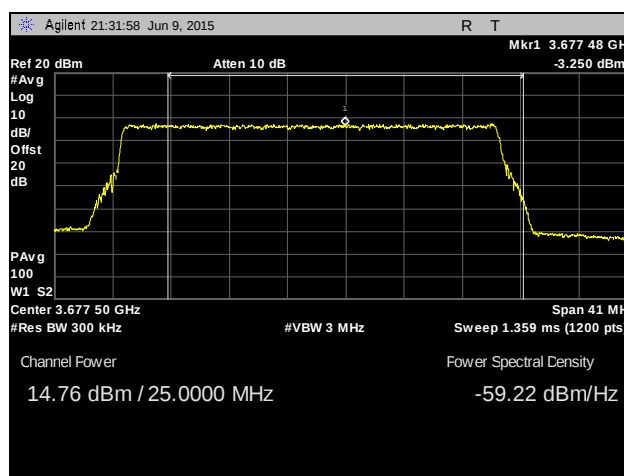
Plot 95. EIRP, Low Channel, 28 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna



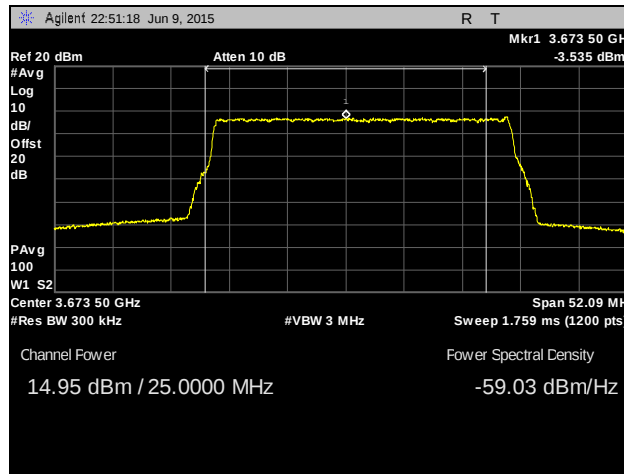
Plot 96. EIRP, Low Channel, 28 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna



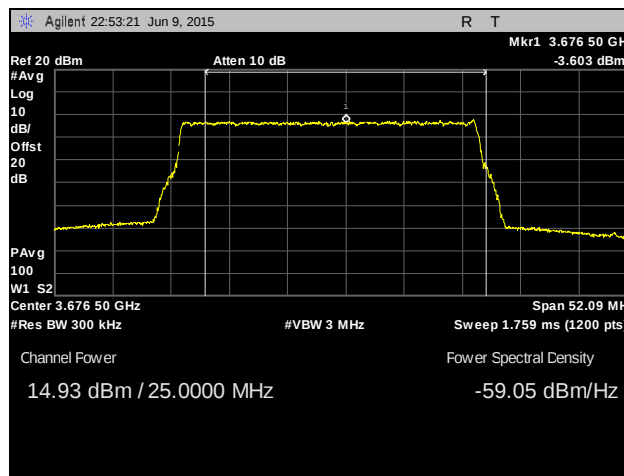
Plot 97. EIRP, Mid Channel, 28 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



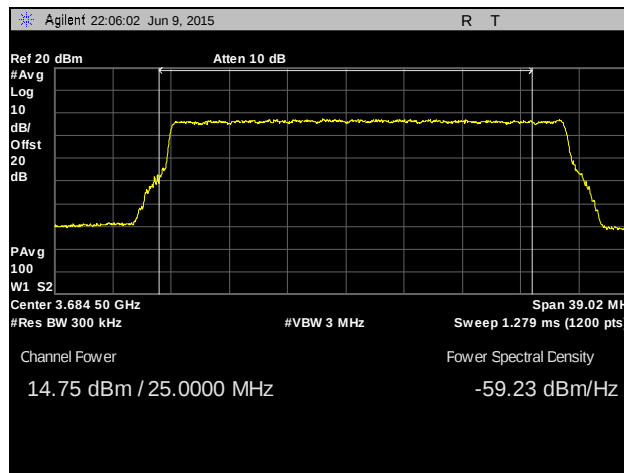
Plot 98. EIRP, Mid Channel, 28 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna



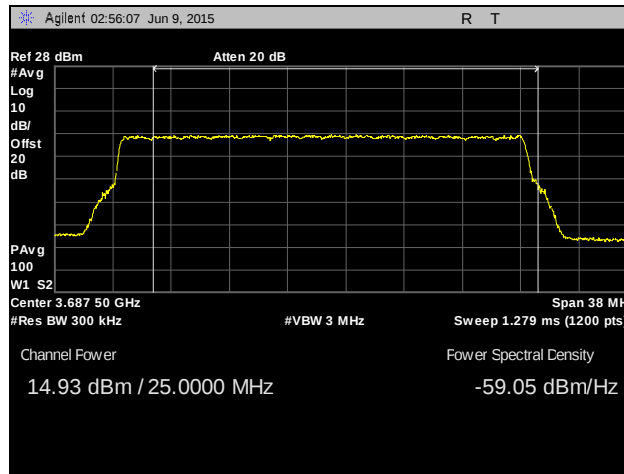
Plot 99. EIRP, Mid Channel, 28 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna



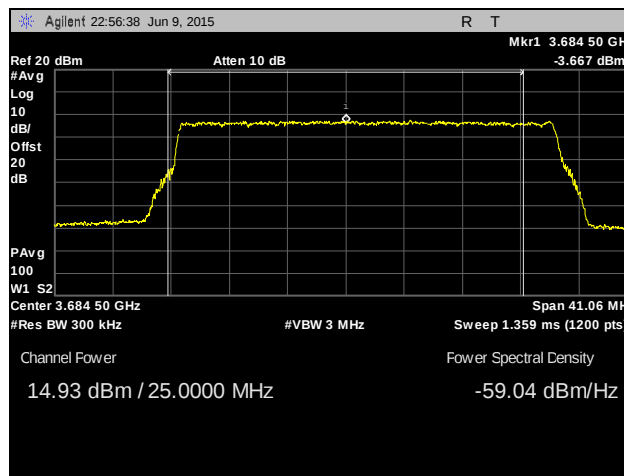
Plot 100. EIRP, Mid Channel, 28 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna



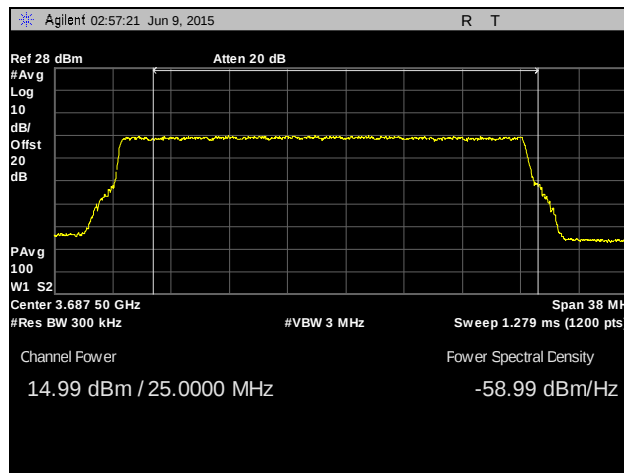
Plot 101. EIRP, High Channel, 28 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



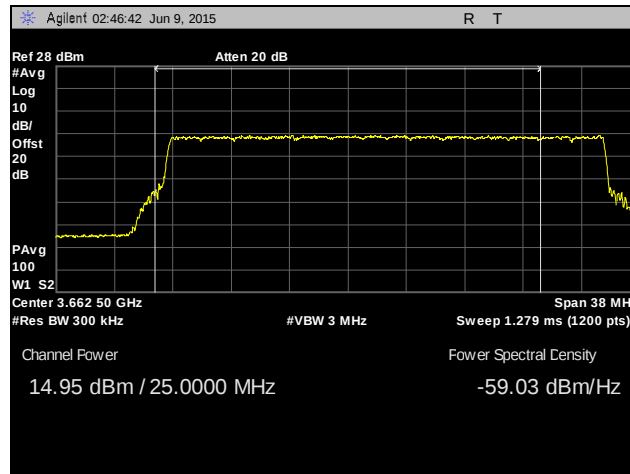
Plot 102. EIRP, High Channel, 28 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna



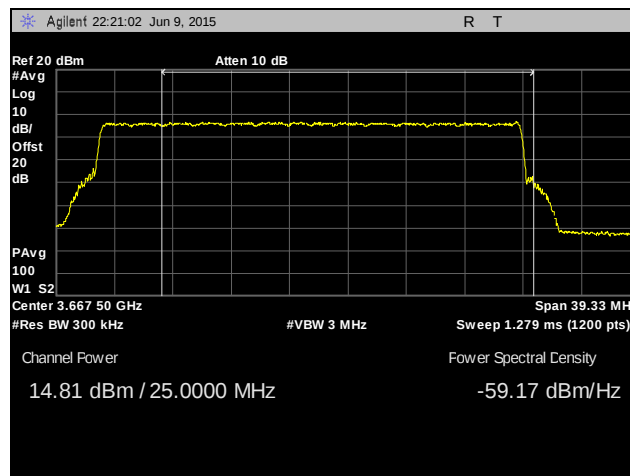
Plot 103. EIRP, High Channel, 28 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna



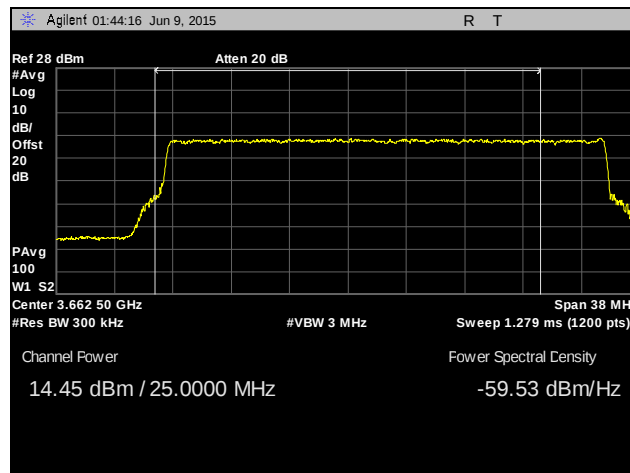
Plot 104. EIRP, High Channel, 28 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna



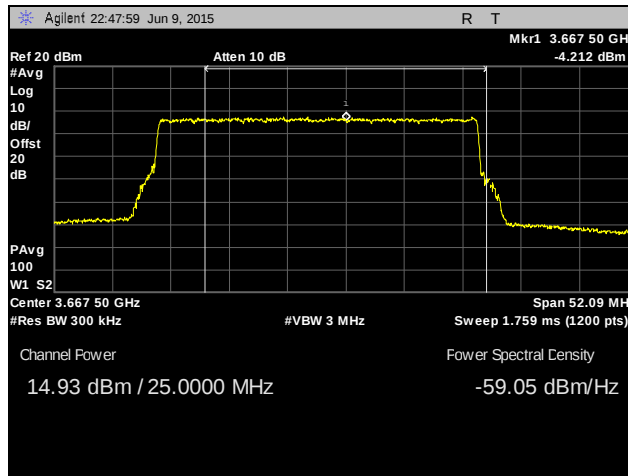
Plot 105. EIRP, Low Channel, 30 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



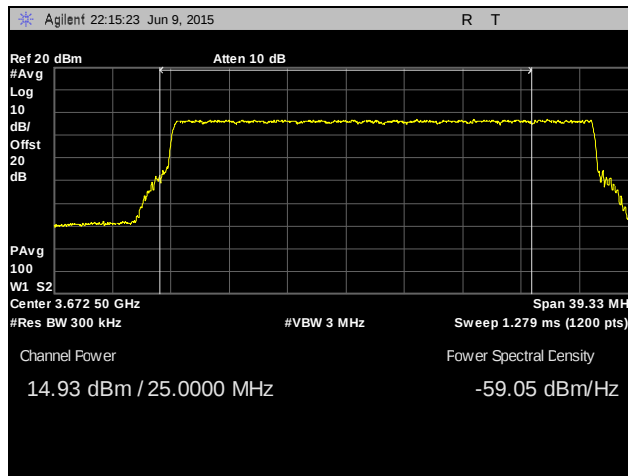
Plot 106. EIRP, Low Channel, 30 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna



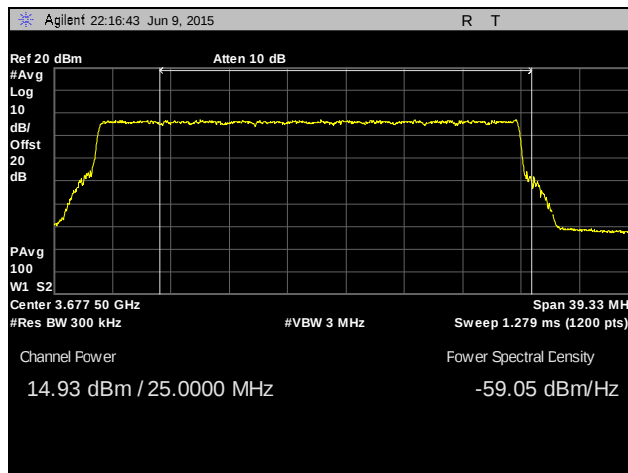
Plot 107. EIRP, Low Channel, 30 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna



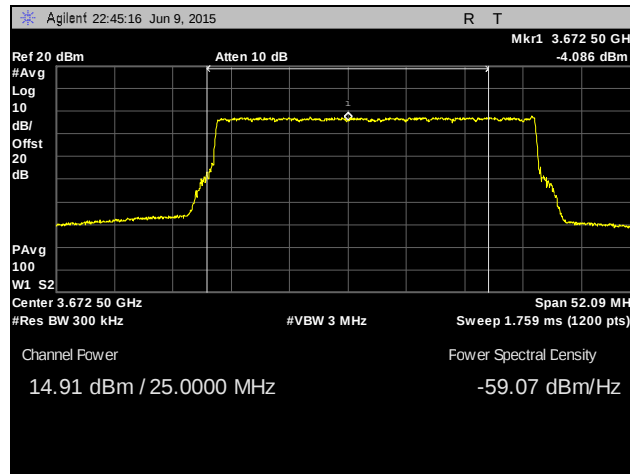
Plot 108. EIRP, Low Channel, 30 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna



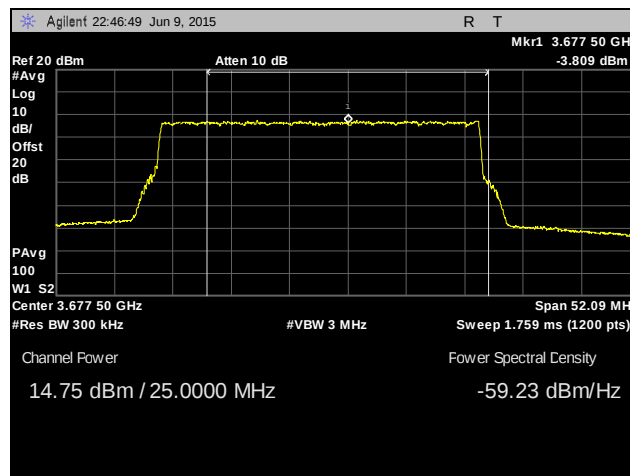
Plot 109. EIRP, Mid Channel, 30 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



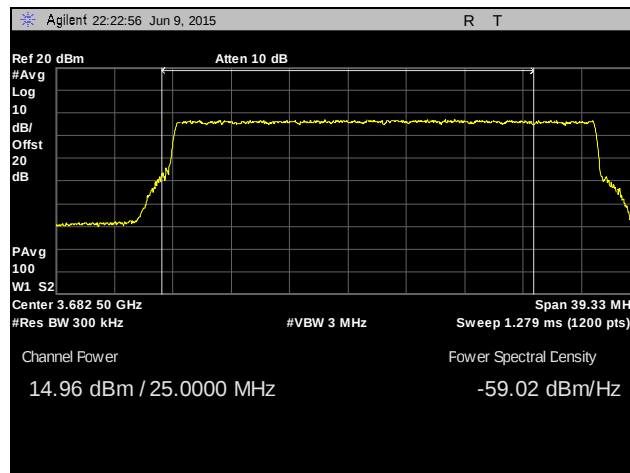
Plot 110. EIRP, Mid Channel, 30 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna



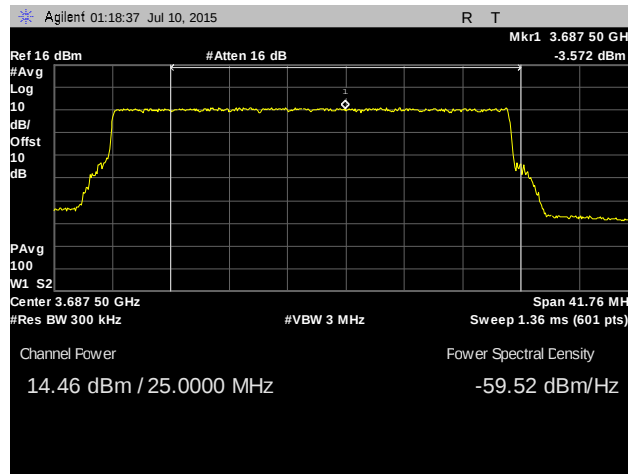
Plot 111. EIRP, Mid Channel, 30 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna



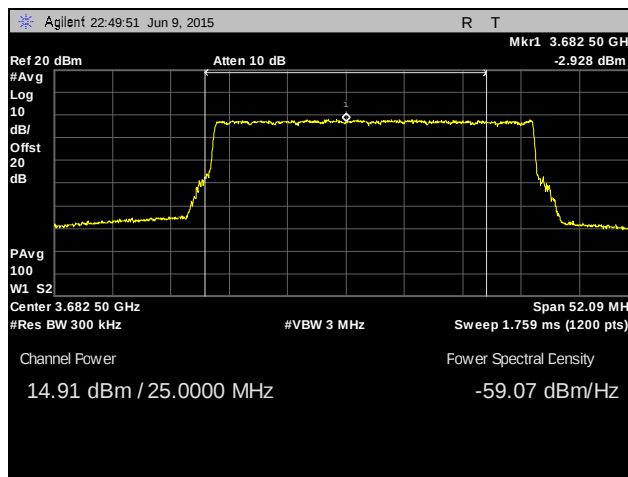
Plot 112. EIRP, Mid Channel, 30 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna



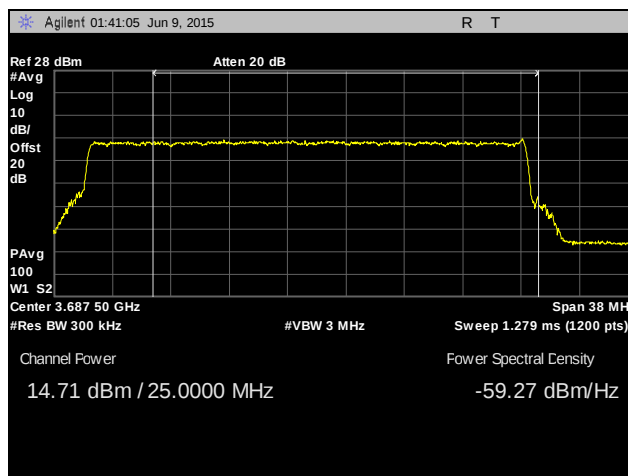
Plot 113. EIRP, High Channel, 30 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



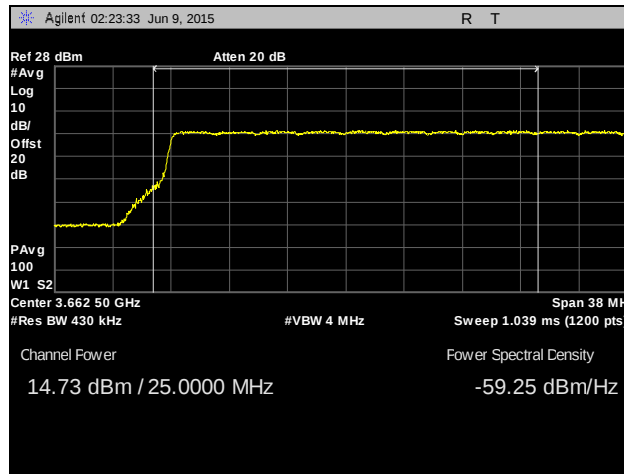
Plot 114. EIRP, High Channel, 30 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna



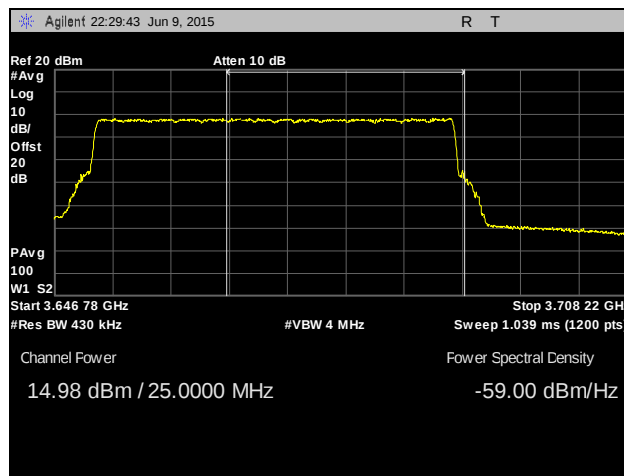
Plot 115. EIRP, High Channel, 30 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna



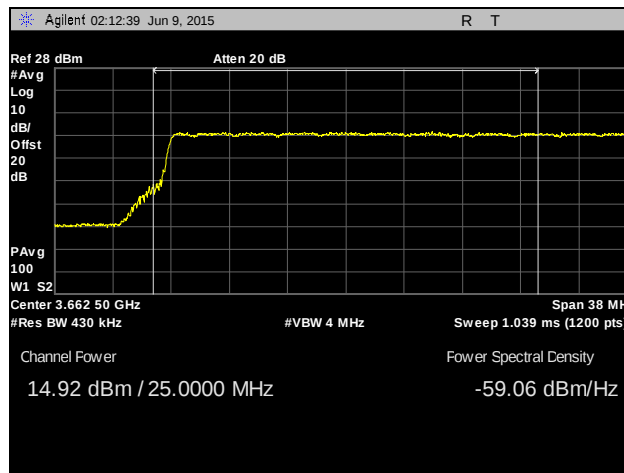
Plot 116. EIRP, High Channel, 30 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna



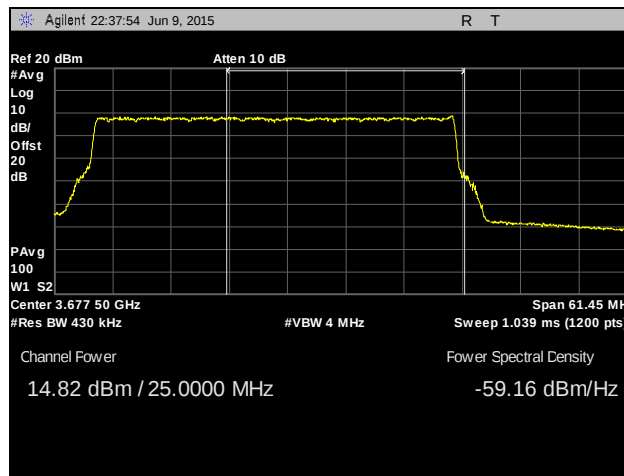
Plot 117. EIRP, Low Channel, 40 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



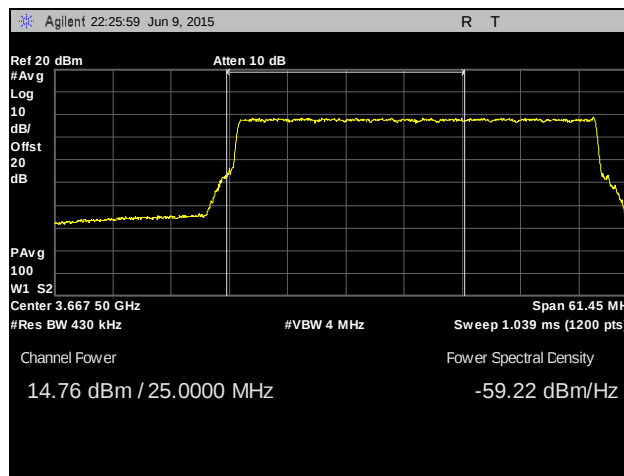
Plot 118. EIRP, Low Channel, 40 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna



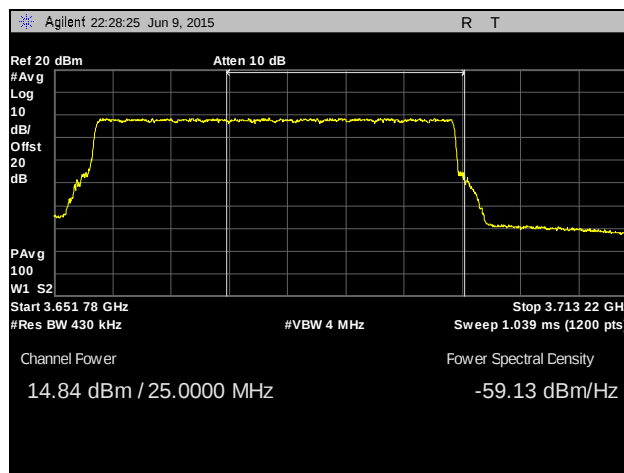
Plot 119. EIRP, Low Channel, 40 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna



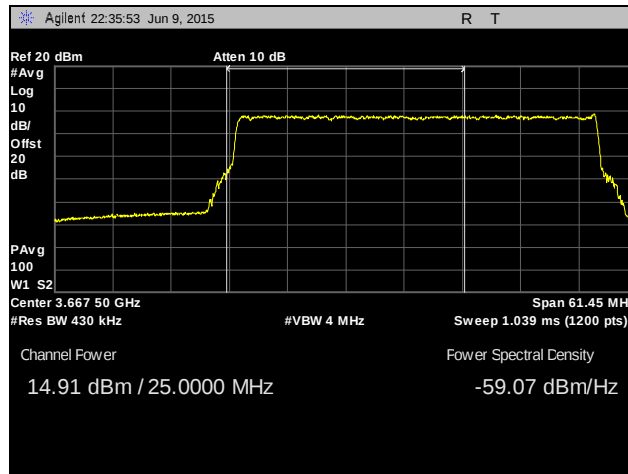
Plot 120. EIRP, Low Channel, 40 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna



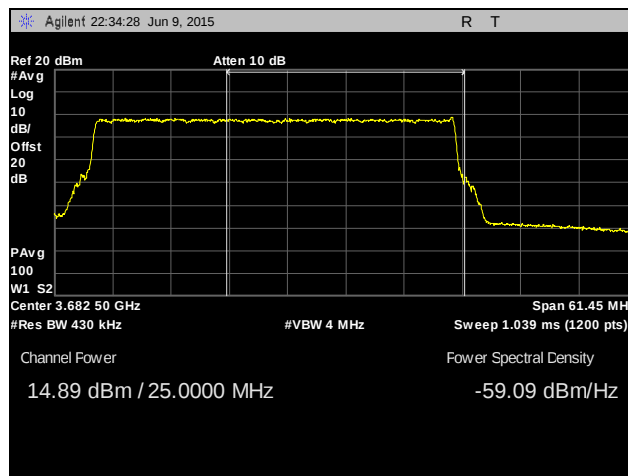
Plot 121. EIRP, Mid Channel, 40 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



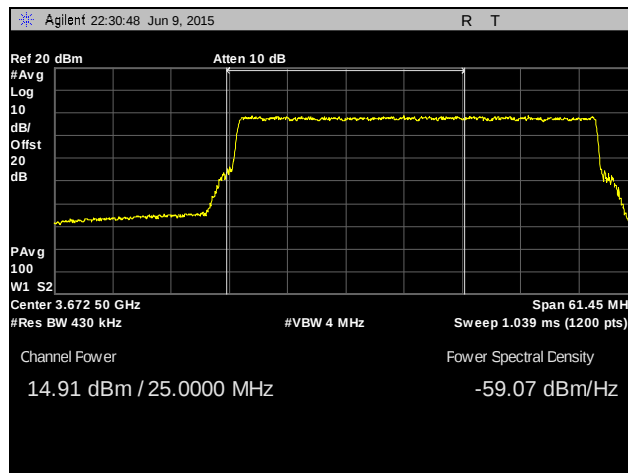
Plot 122. EIRP, Mid Channel, 40 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna



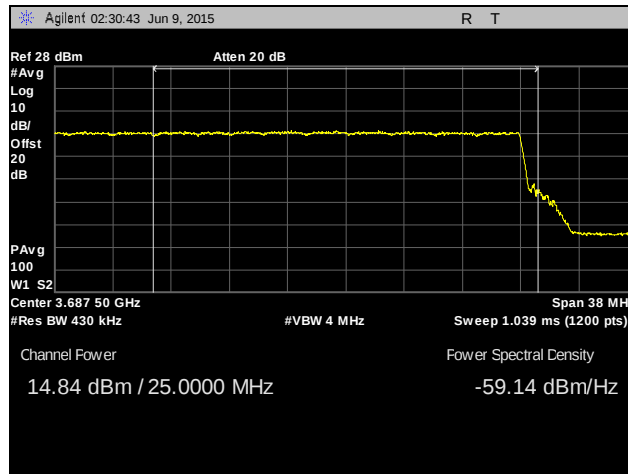
Plot 123. EIRP, Mid Channel, 40 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna



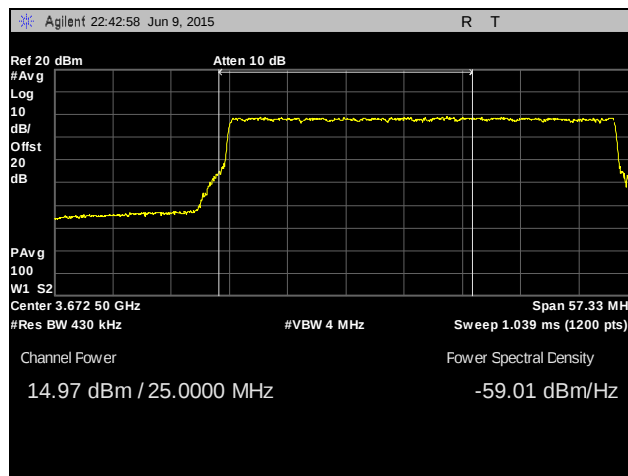
Plot 124. EIRP, Mid Channel, 40 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna



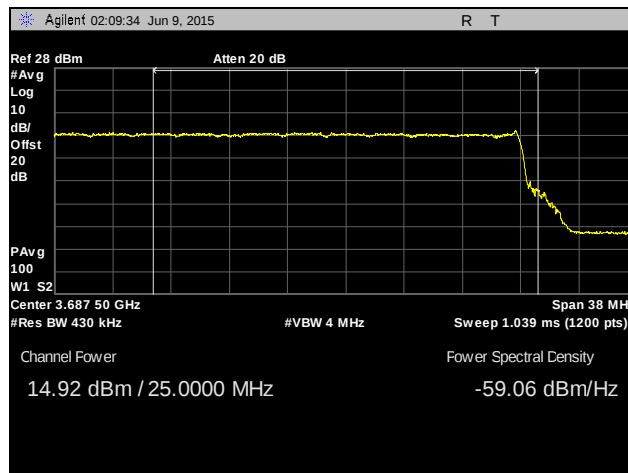
Plot 125. EIRP, High Channel, 40 MHz, Chain 0, Lower 25 MHz, 26 dBi Antenna



Plot 126. EIRP, High Channel, 40 MHz, Chain 0, Upper 25 MHz, 26 dBi Antenna

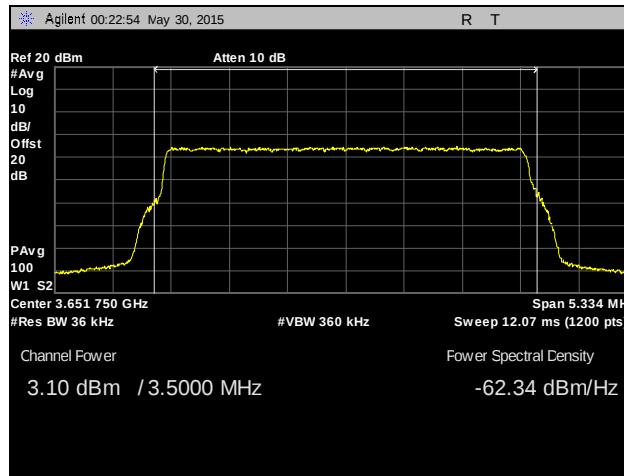


Plot 127. EIRP, High Channel, 40 MHz, Chain 1, Lower 25 MHz, 26 dBi Antenna

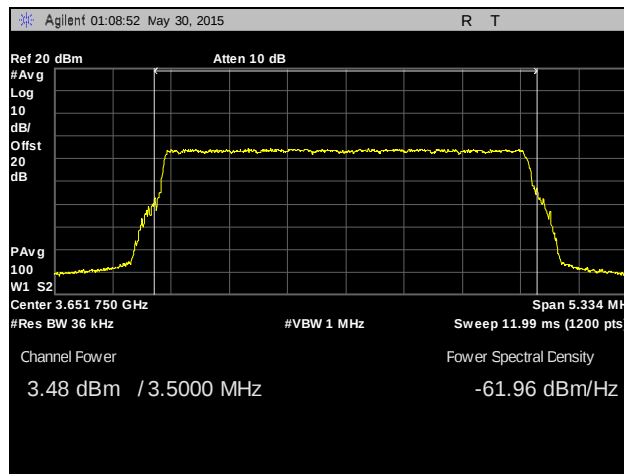


Plot 128. EIRP, High Channel, 40 MHz, Chain 1, Upper 25 MHz, 26 dBi Antenna

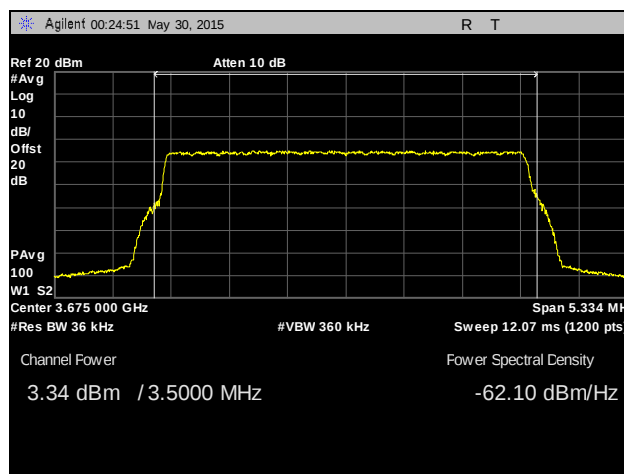
RF Output Power, 29 dBi Antenna



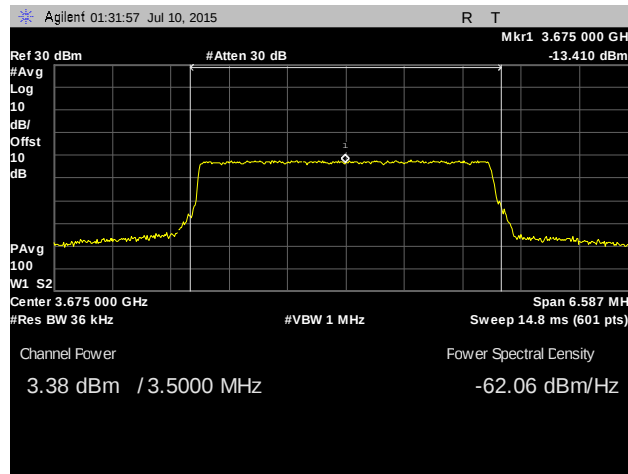
Plot 129. EIRP, Low Channel, 3.5 MHz, Chain 0, 29 dBi Antenna



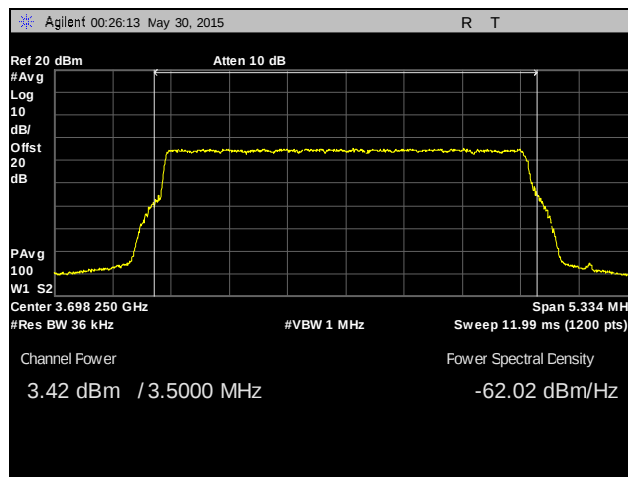
Plot 130. EIRP, Low Channel, 3.5 MHz, Chain 1, 29 dBi Antenna



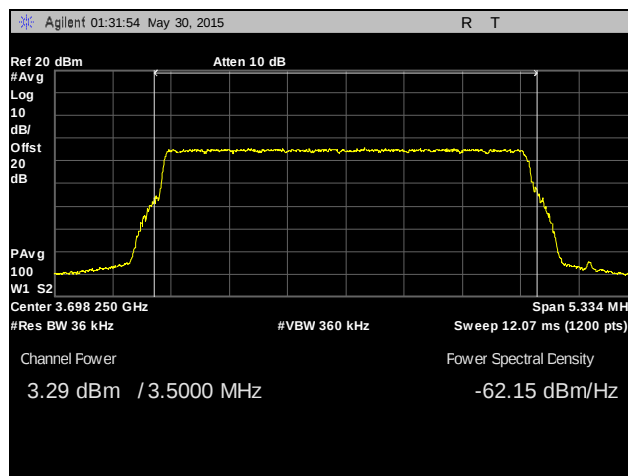
Plot 131. EIRP, Mid Channel, 3.5 MHz, Chain 0, 29 dBi Antenna



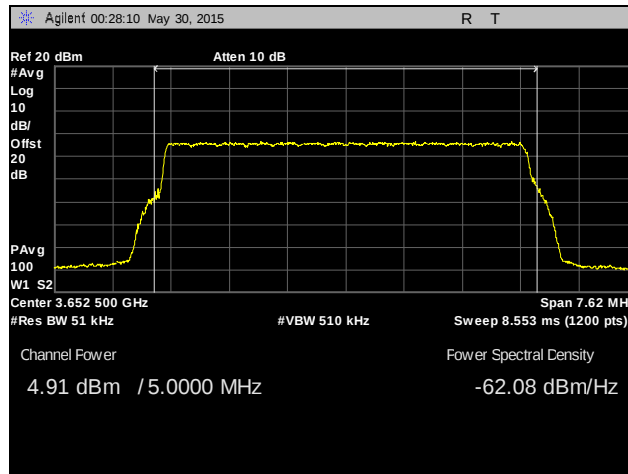
Plot 132. EIRP, Mid Channel, 3.5 MHz, Chain 1, 29 dBi Antenna



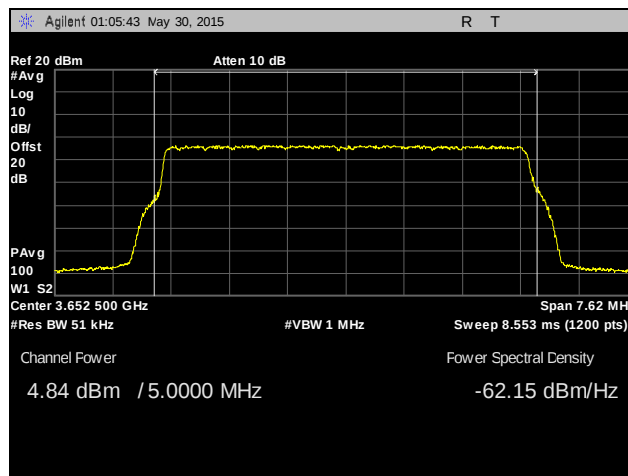
Plot 133. EIRP, High Channel, 3.5 MHz, Chain 0, 29 dBi Antenna



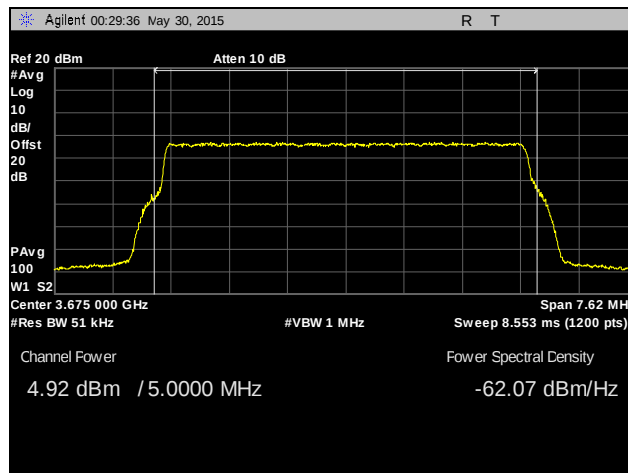
Plot 134. EIRP, High Channel, 3.5 MHz, Chain 1, 29 dBi Antenna



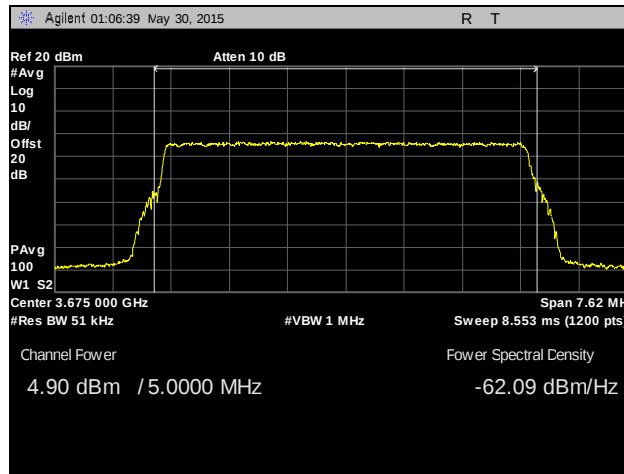
Plot 135. EIRP, Low Channel, 5 MHz, Chain 0, 29 dBi Antenna



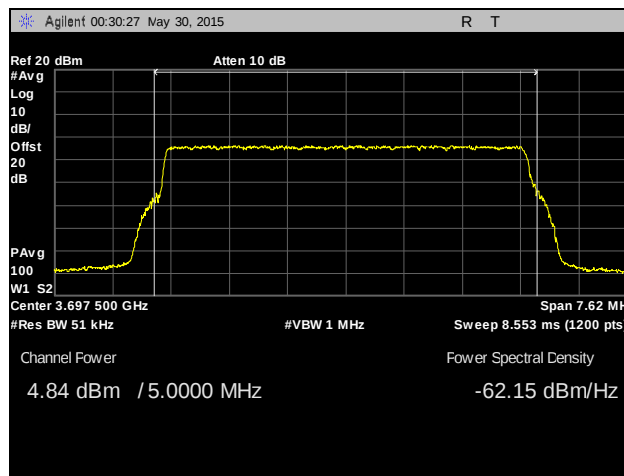
Plot 136. EIRP, Low Channel, 5 MHz, Chain 1, 29 dBi Antenna



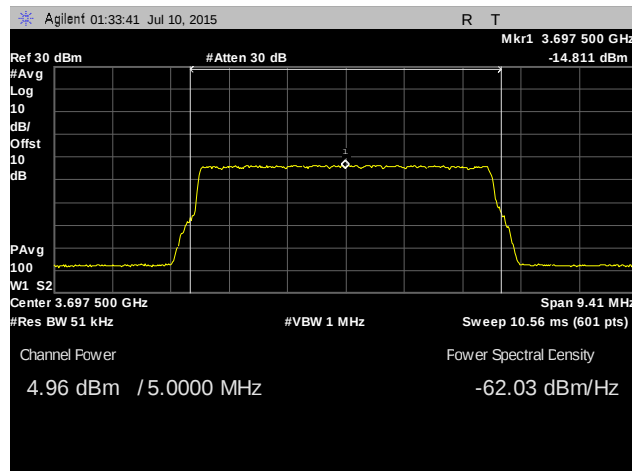
Plot 137. EIRP, Mid Channel, 5 MHz, Chain 0, 29 dBi Antenna



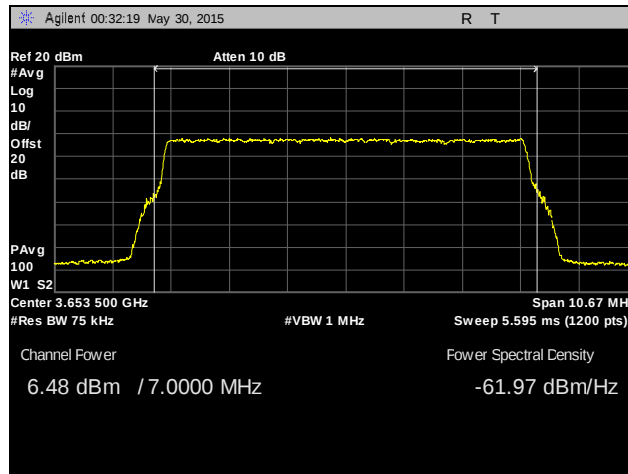
Plot 138. EIRP, Mid Channel, 5 MHz, Chain 1, 29 dBi Antenna



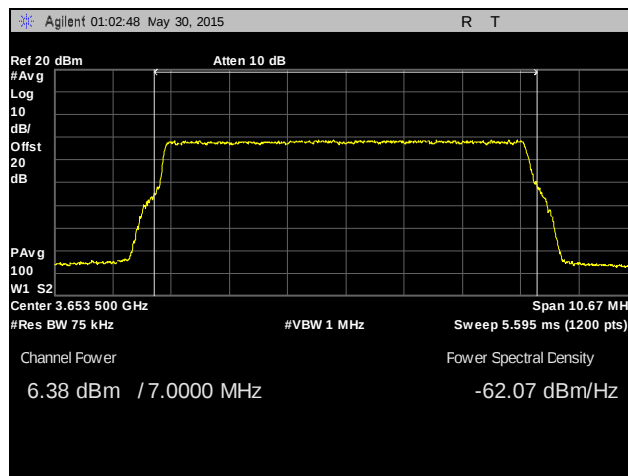
Plot 139. EIRP, High Channel, 5 MHz, Chain 0, 29 dBi Antenna



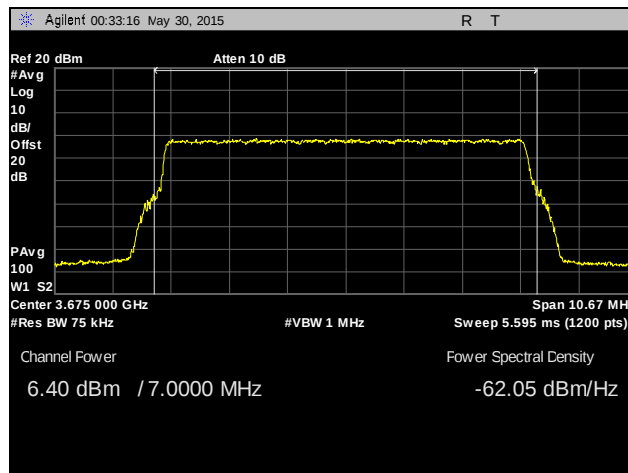
Plot 140. EIRP, High Channel, 5 MHz, Chain 1, 29 dBi Antenna



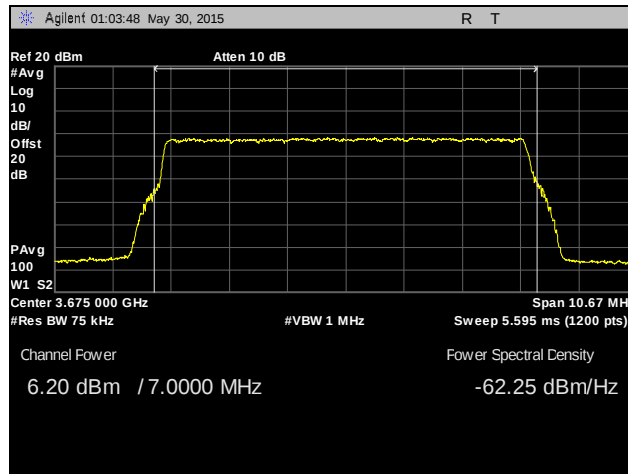
Plot 141. EIRP, Low Channel, 7 MHz, Chain 0, 29 dBi Antenna



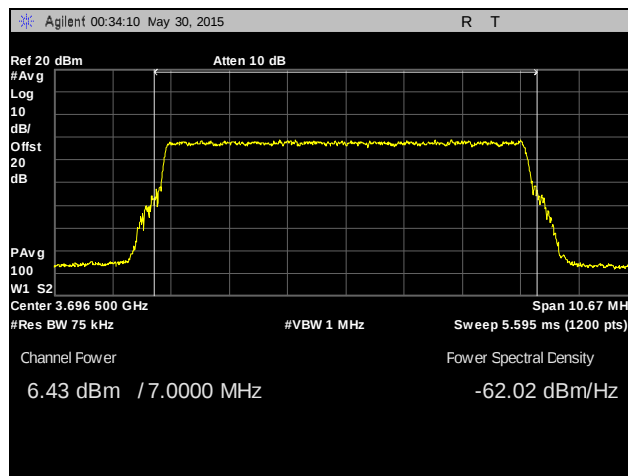
Plot 142. EIRP, Low Channel, 7 MHz, Chain 1, 29 dBi Antenna



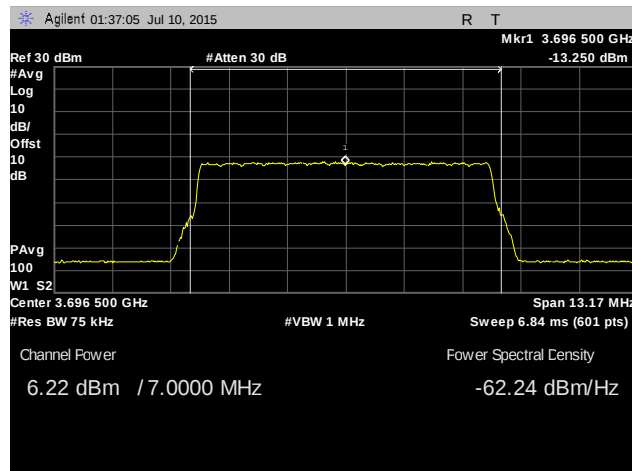
Plot 143. EIRP, Mid Channel, 7 MHz, Chain 0, 29 dBi Antenna



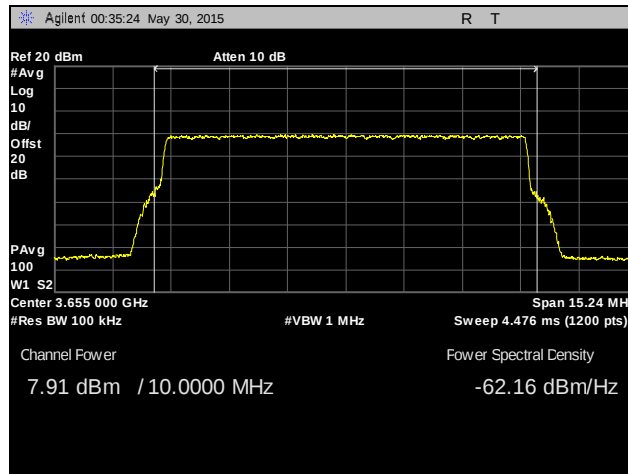
Plot 144. EIRP, Mid Channel, 7 MHz, Chain 1, 29 dBi Antenna



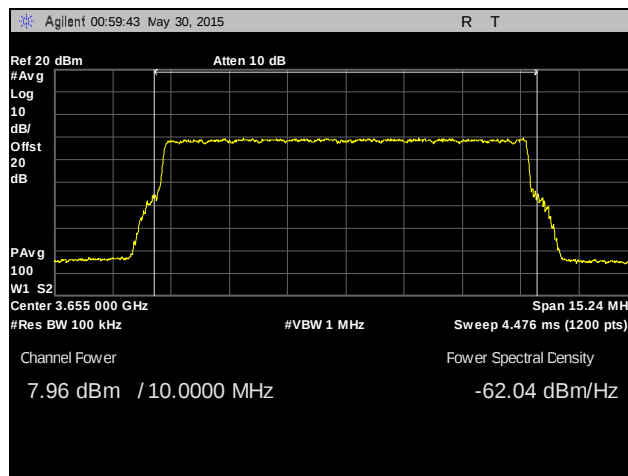
Plot 145. EIRP, High Channel, 7 MHz, Chain 0, 29 dBi Antenna



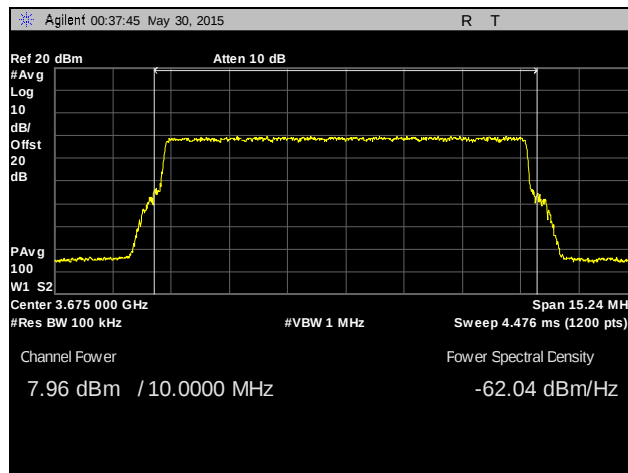
Plot 146. EIRP, High Channel, 7 MHz, Chain 1, 29 dBi Antenna



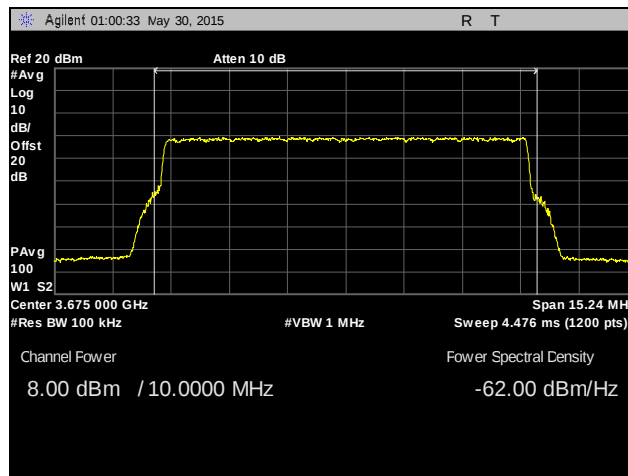
Plot 147. EIRP, Low Channel, 10 MHz, Chain 0, 29 dBi Antenna



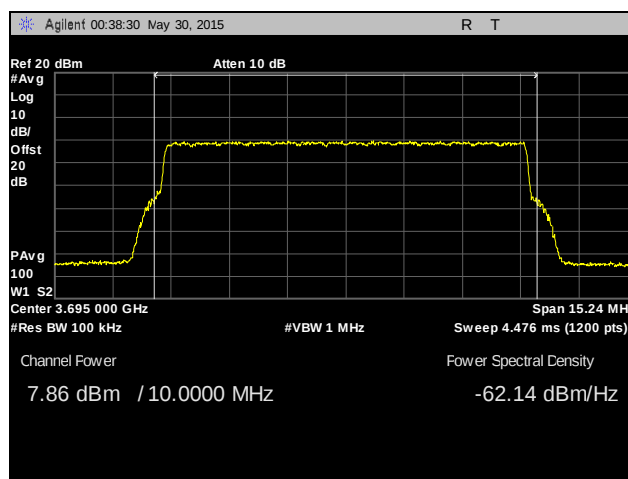
Plot 148. EIRP, Low Channel, 10 MHz, Chain 1, 29 dBi Antenna



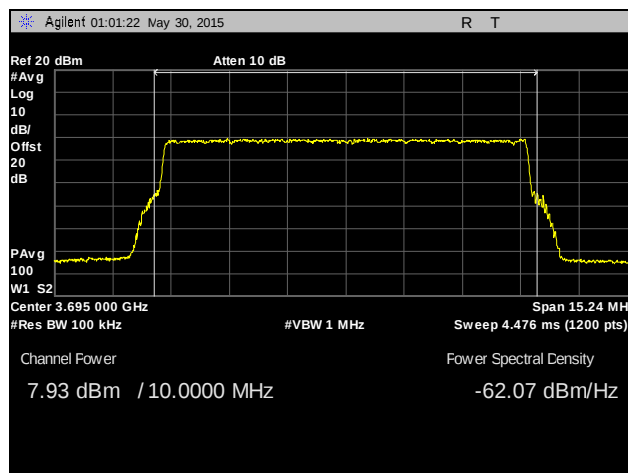
Plot 149. EIRP, Mid Channel, 10 MHz, Chain 0, 29 dBi Antenna



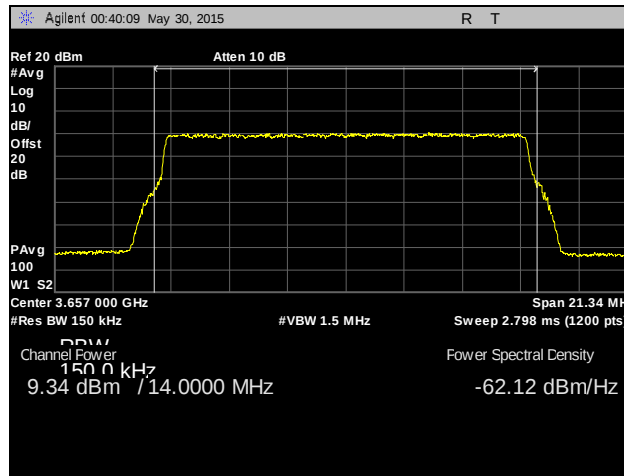
Plot 150. EIRP, Mid Channel, 10 MHz, Chain 1, 29 dBi Antenna



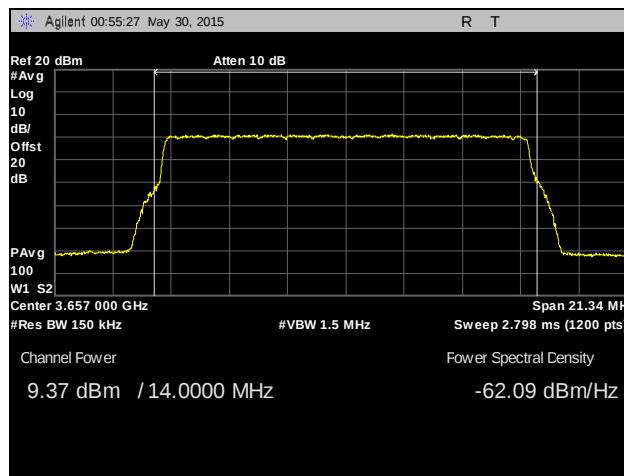
Plot 151. EIRP, High Channel, 10 MHz, Chain 0, 29 dBi Antenna



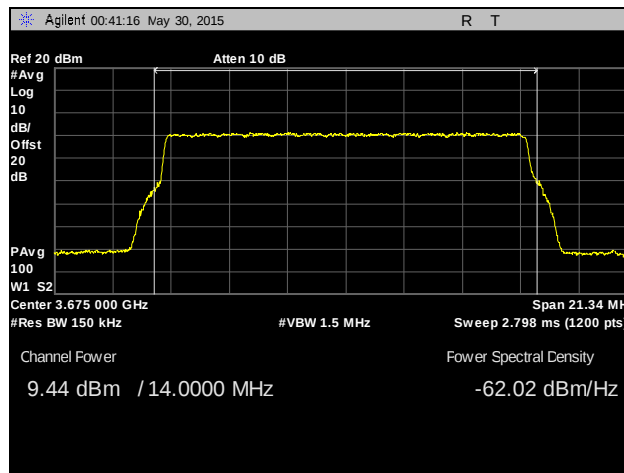
Plot 152. EIRP, High Channel, 10 MHz, Chain 1, 29 dBi Antenna



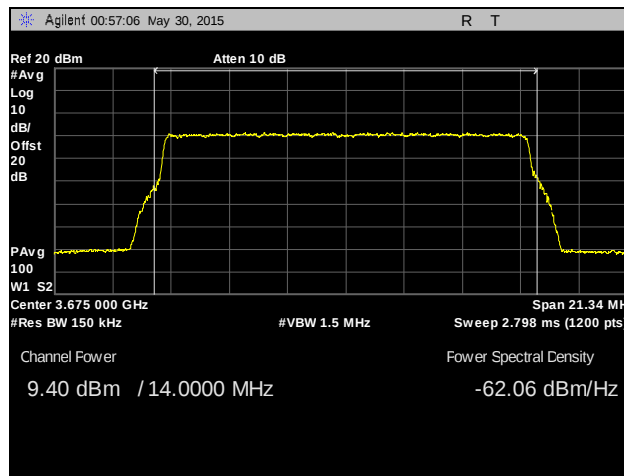
Plot 153. EIRP, Low Channel, 14 MHz, Chain 0, 29 dBi Antenna



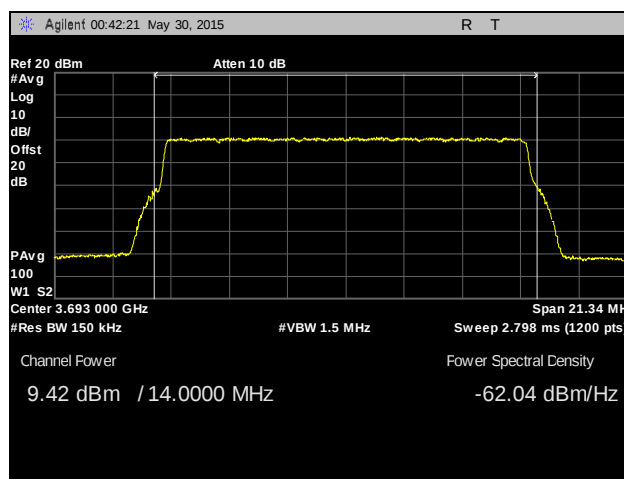
Plot 154. EIRP, Low Channel, 14 MHz, Chain 1, 29 dBi Antenna



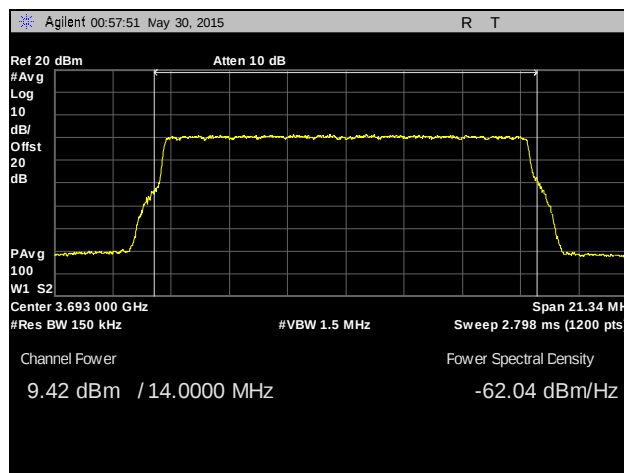
Plot 155. EIRP, Mid Channel, 14 MHz, Chain 0, 29 dBi Antenna



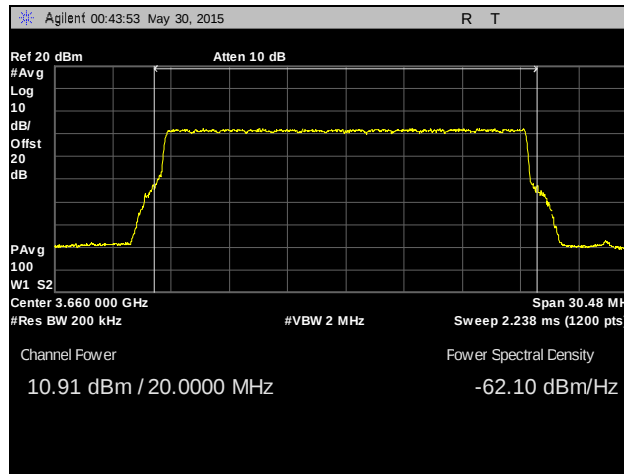
Plot 156. EIRP, Mid Channel, 14 MHz, Chain 1, 29 dBi Antenna



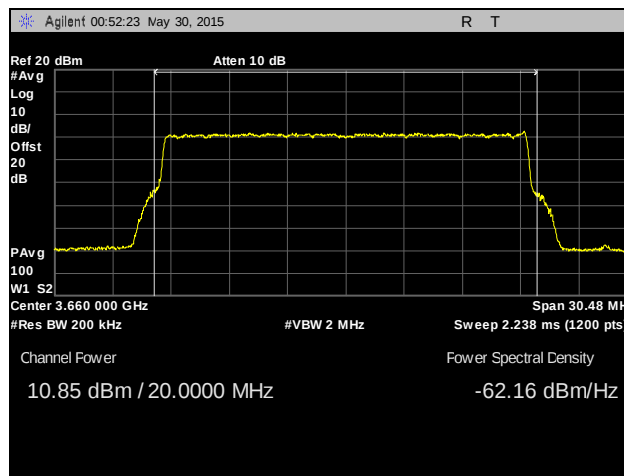
Plot 157. EIRP, High Channel, 14 MHz, Chain 0, 29 dBi Antenna



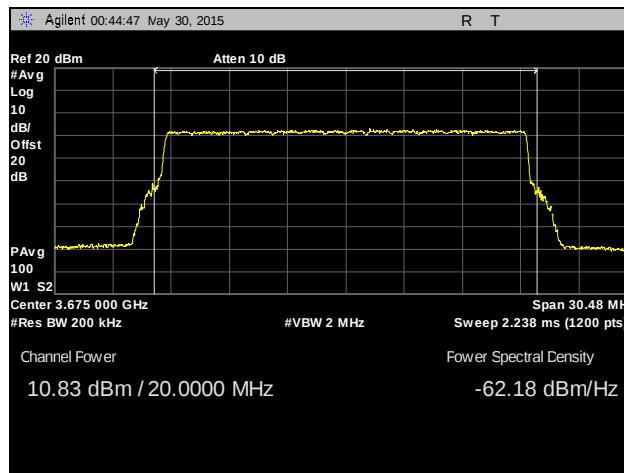
Plot 158. EIRP, High Channel, 14 MHz, Chain 1, 29 dBi Antenna



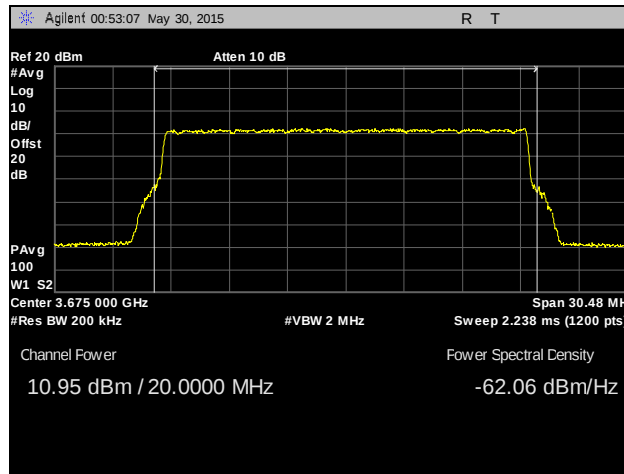
Plot 159. EIRP, Low Channel, 20 MHz, Chain 0, 29 dBi Antenna



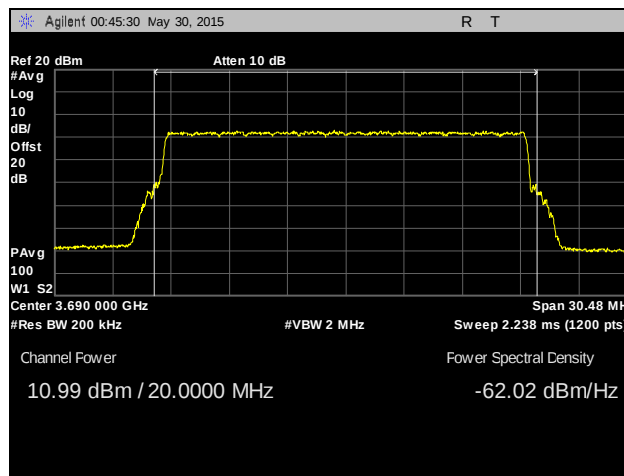
Plot 160. EIRP, Low Channel, 20 MHz, Chain 1, 29 dBi Antenna



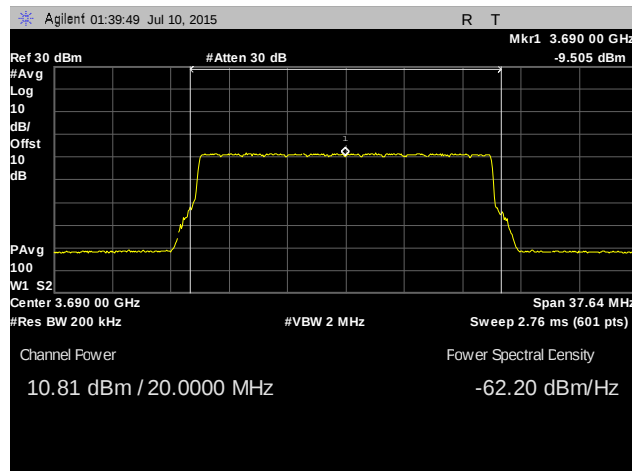
Plot 161. EIRP, Mid Channel, 20 MHz, Chain 0, 29 dBi Antenna



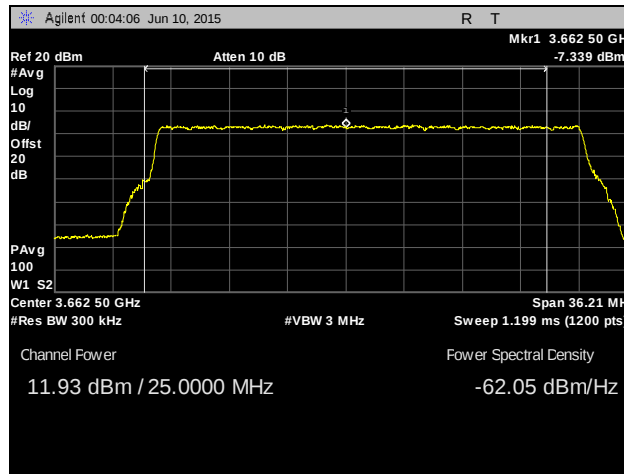
Plot 162. EIRP, Mid Channel, 20 MHz, Chain 1, 29 dBi Antenna



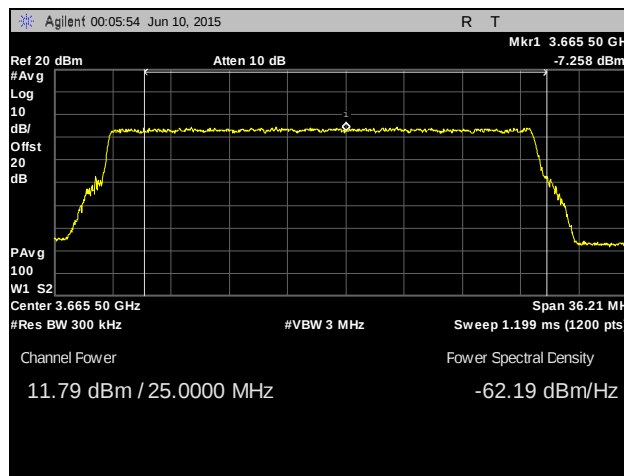
Plot 163. EIRP, High Channel, 20 MHz, Chain 0, 29 dBi Antenna



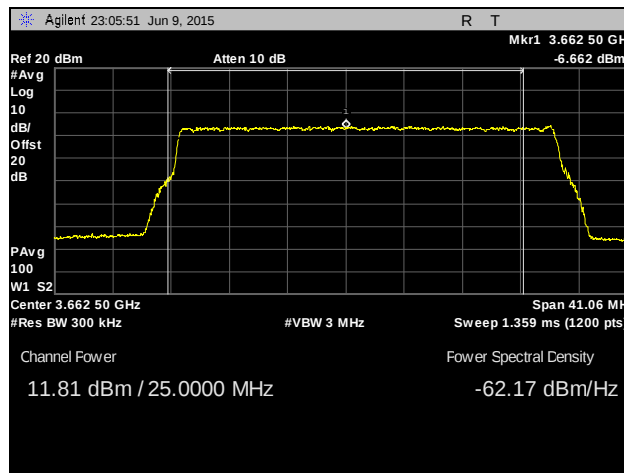
Plot 164. EIRP, High Channel, 20 MHz, Chain 1, 29 dBi Antenna



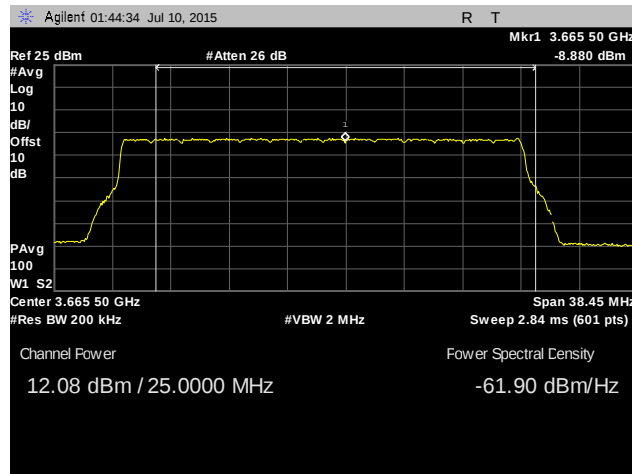
Plot 165. EIRP, Low Channel, 28 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



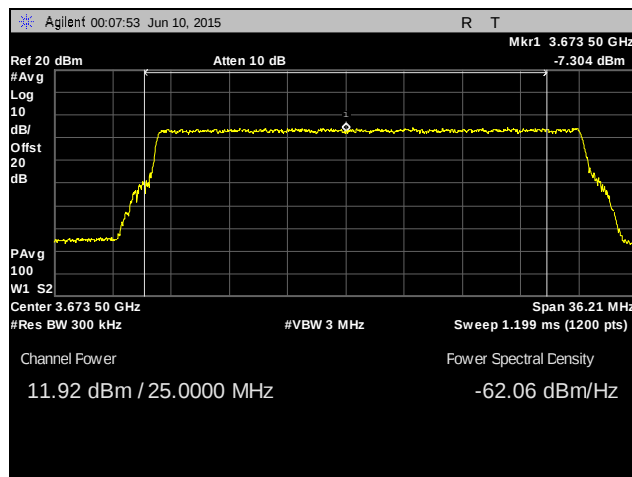
Plot 166. EIRP, Low Channel, 28 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



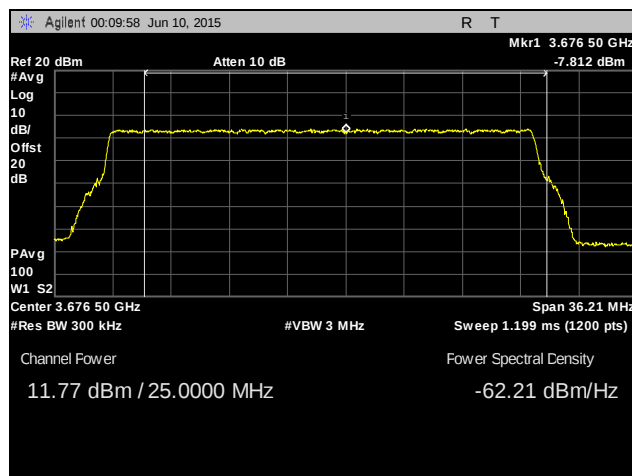
Plot 167. EIRP, Low Channel, 28 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



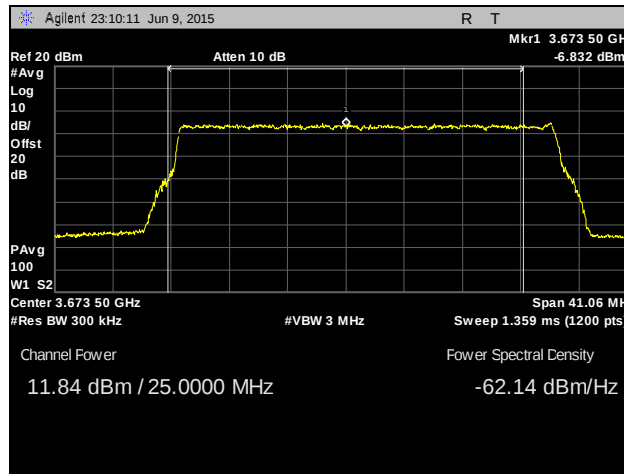
Plot 168. EIRP, Low Channel, 28 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna



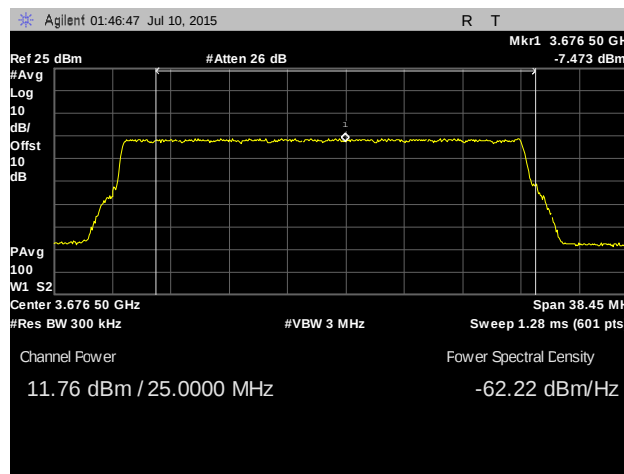
Plot 169. EIRP, Mid Channel, 28 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



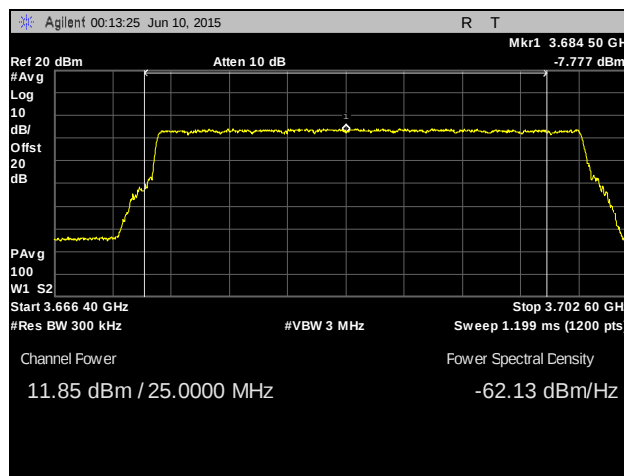
Plot 170. EIRP, Mid Channel, 28 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



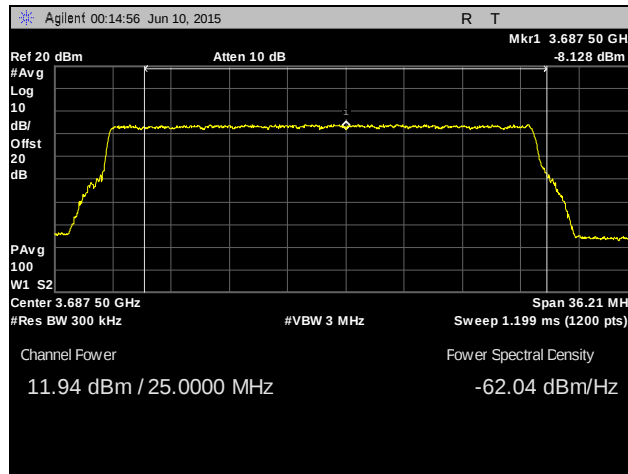
Plot 171. EIRP, Mid Channel, 28 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



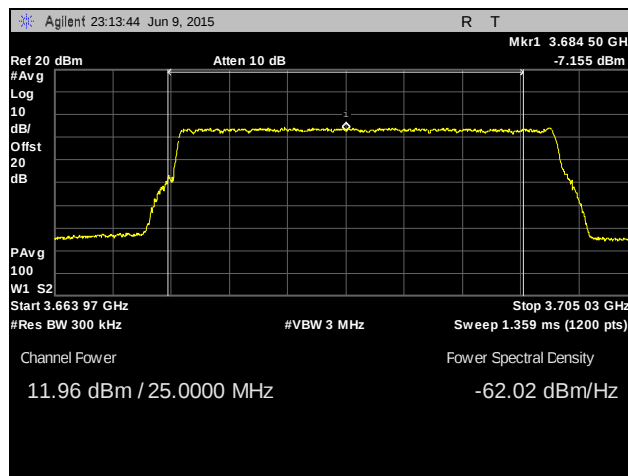
Plot 172. EIRP, Mid Channel, 28 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna



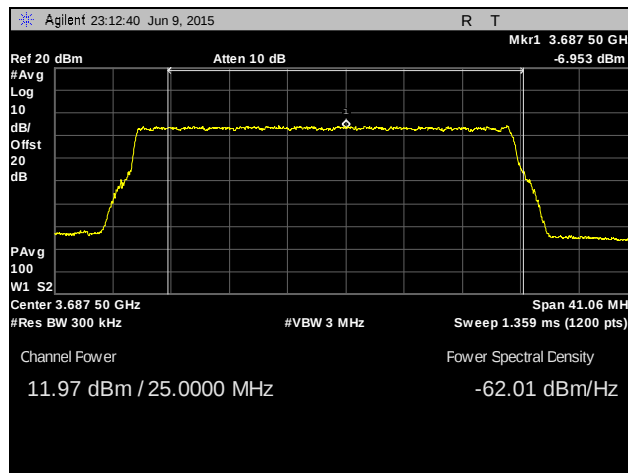
Plot 173. EIRP, High Channel, 28 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



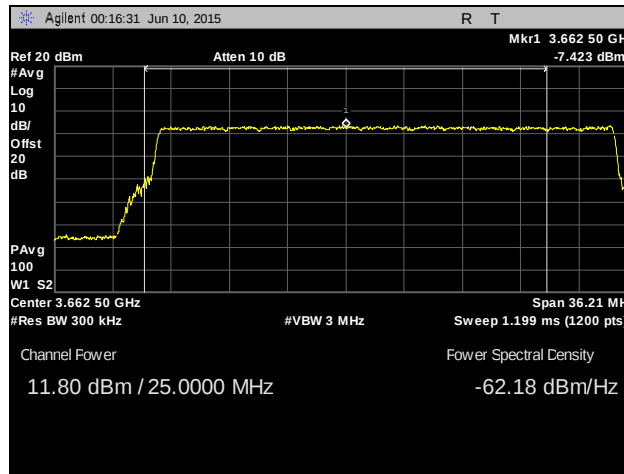
Plot 174. EIRP, High Channel, 28 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



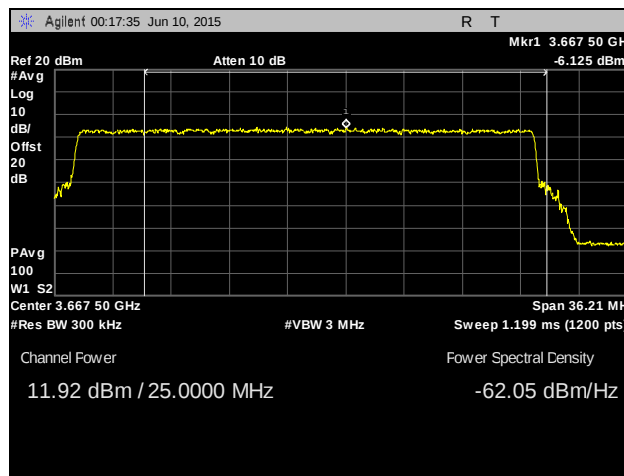
Plot 175. EIRP, High Channel, 28 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



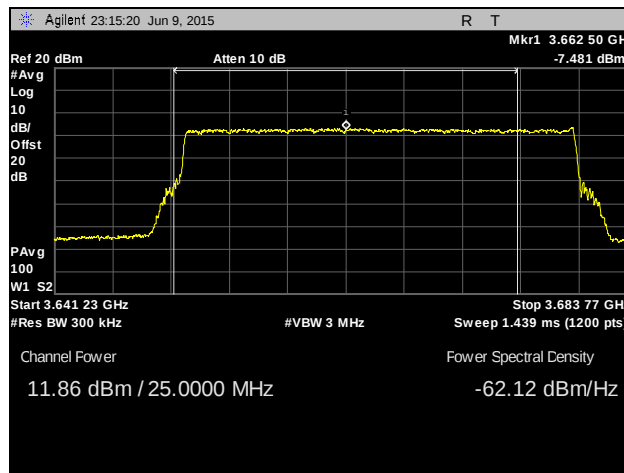
Plot 176. EIRP, High Channel, 28 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna



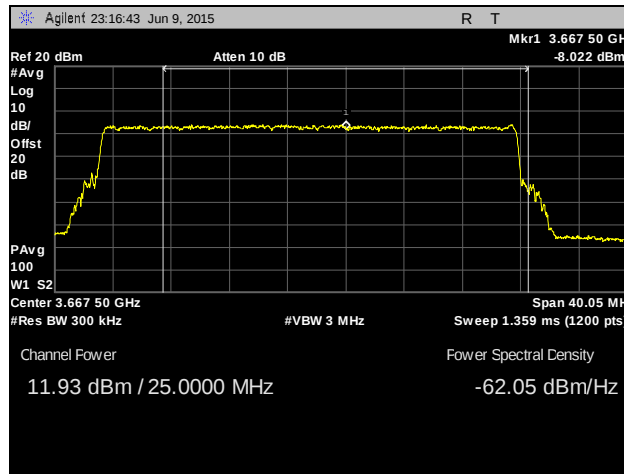
Plot 177. EIRP, Low Channel, 30 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



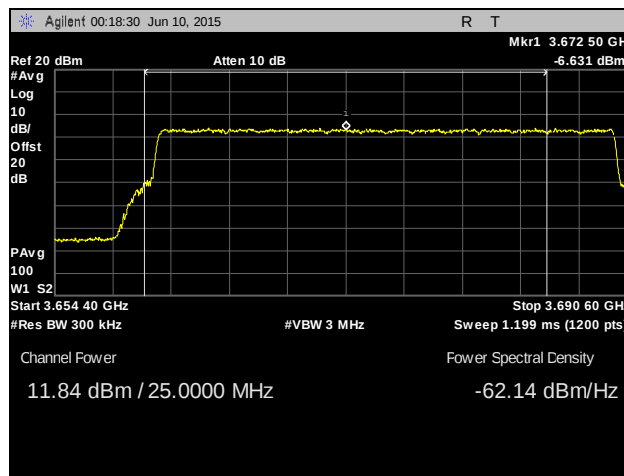
Plot 178. EIRP, Low Channel, 30 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



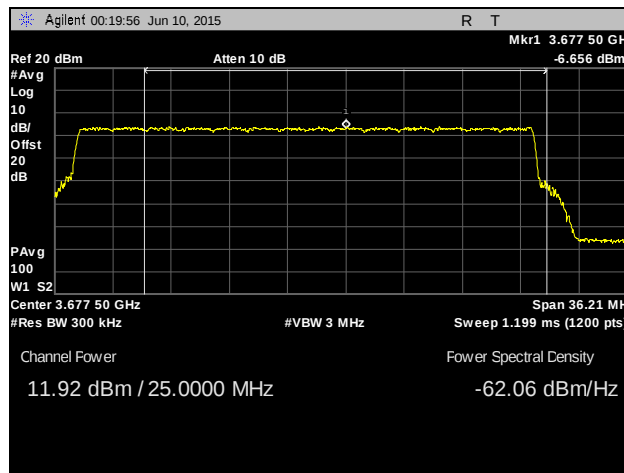
Plot 179. EIRP, Low Channel, 30 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



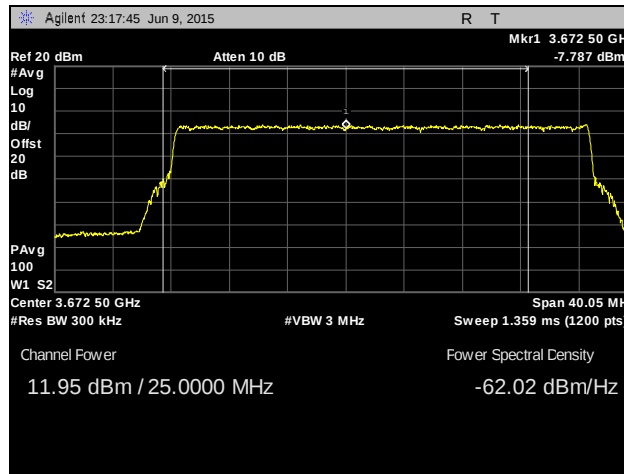
Plot 180. EIRP, Low Channel, 30 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna



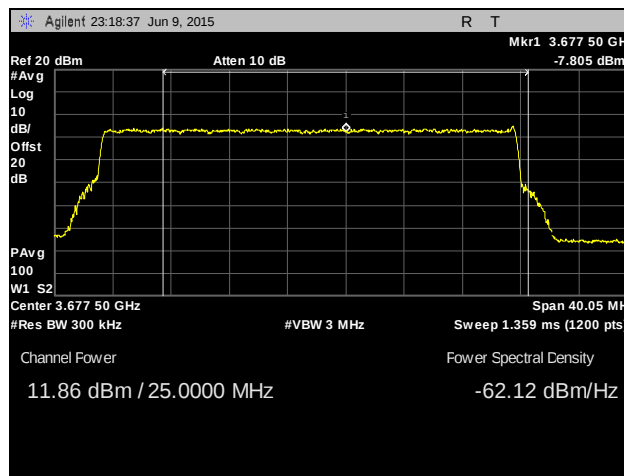
Plot 181. EIRP, Mid Channel, 30 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



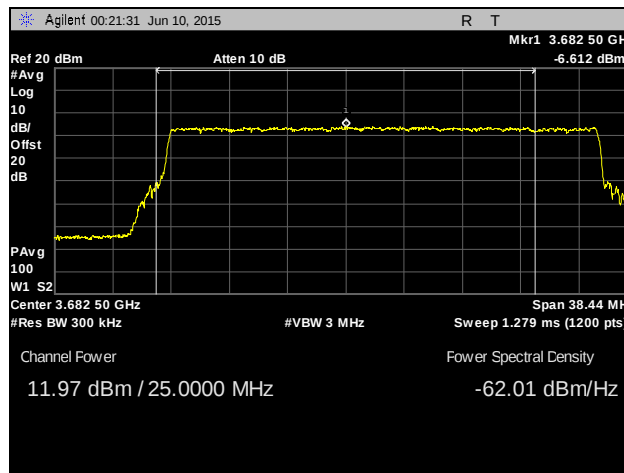
Plot 182. EIRP, Mid Channel, 30 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



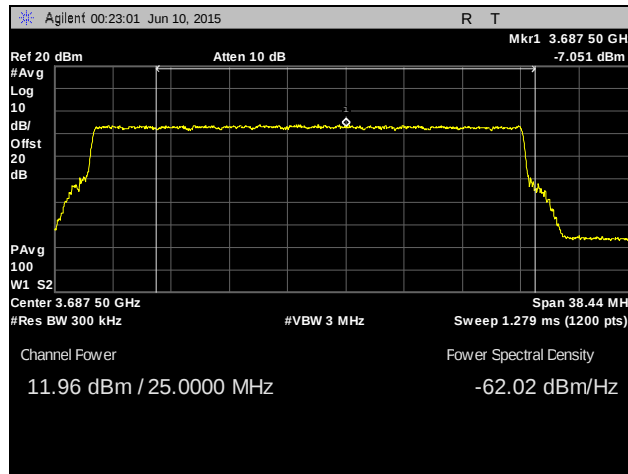
Plot 183. EIRP, Mid Channel, 30 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



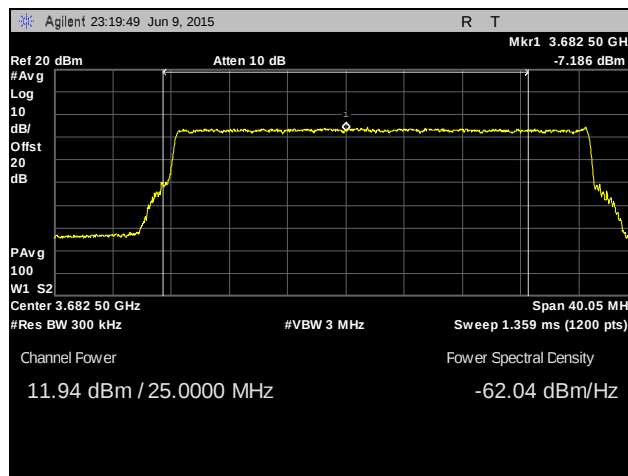
Plot 184. EIRP, Mid Channel, 30 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna



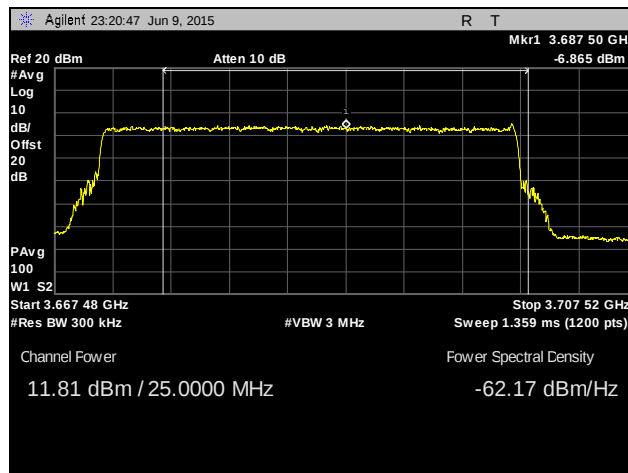
Plot 185. EIRP, High Channel, 30 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



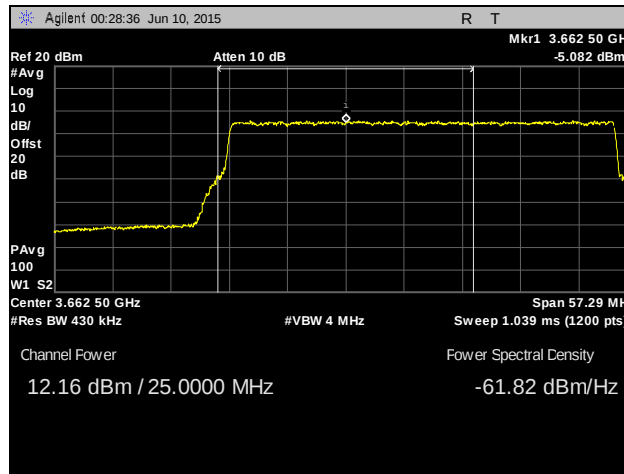
Plot 186. EIRP, High Channel, 30 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



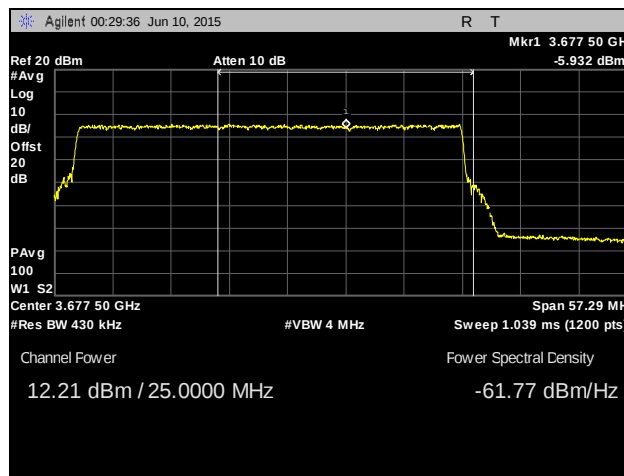
Plot 187. EIRP, High Channel, 30 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



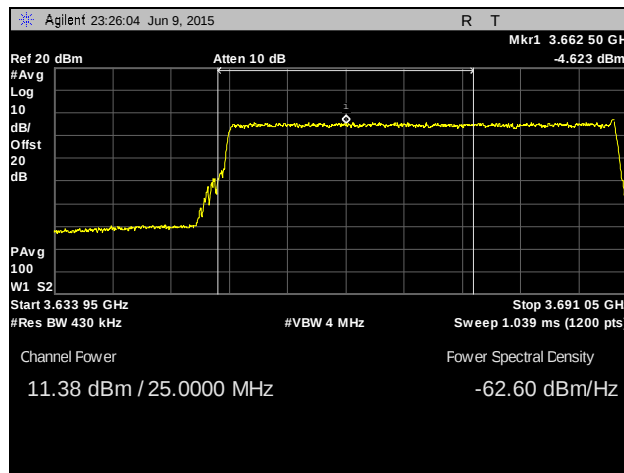
Plot 188. EIRP, High Channel, 30 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna



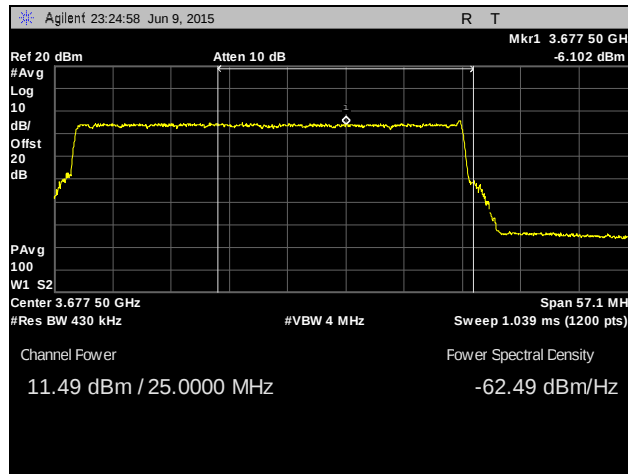
Plot 189. EIRP, Low Channel, 40 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



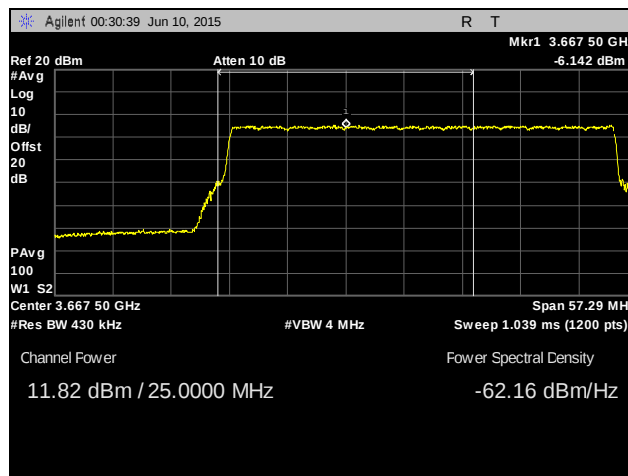
Plot 190. EIRP, Low Channel, 40 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



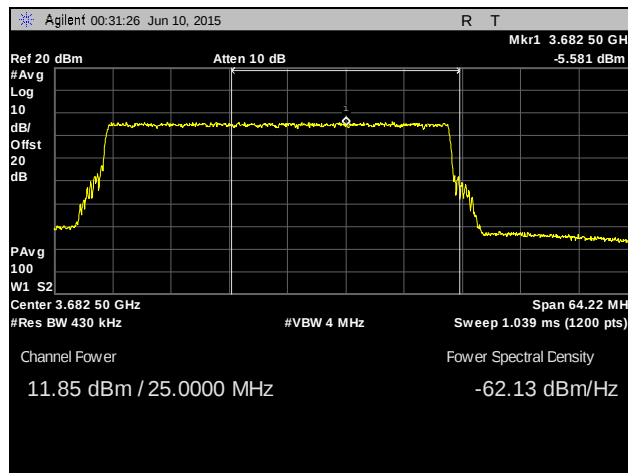
Plot 191. EIRP, Low Channel, 40 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



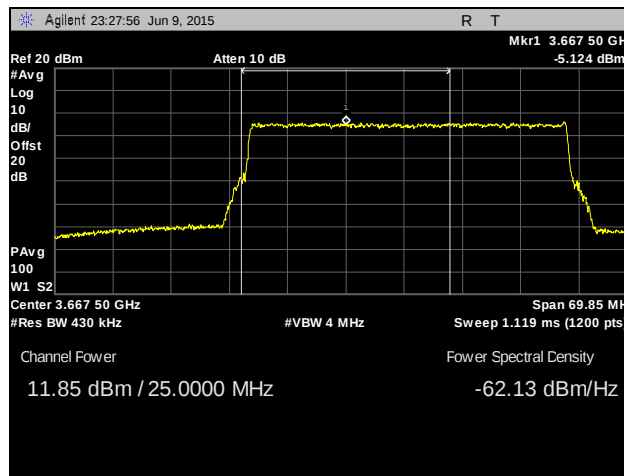
Plot 192. EIRP, Low Channel, 40 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna



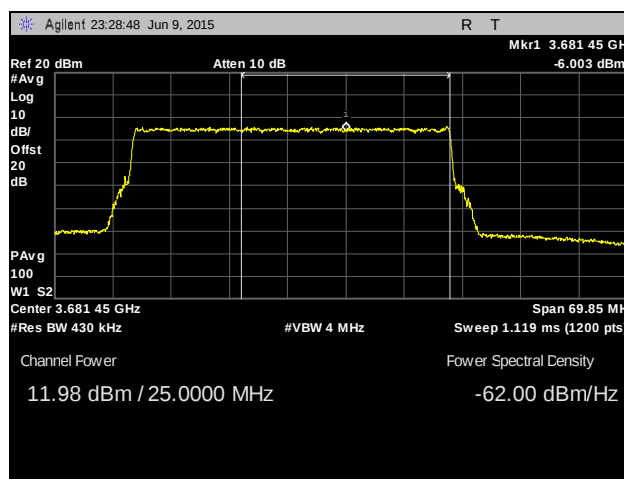
Plot 193. EIRP, Mid Channel, 40 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



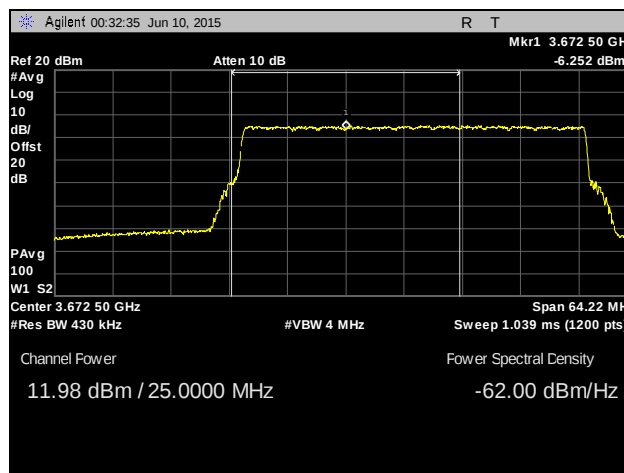
Plot 194. EIRP, Mid Channel, 40 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



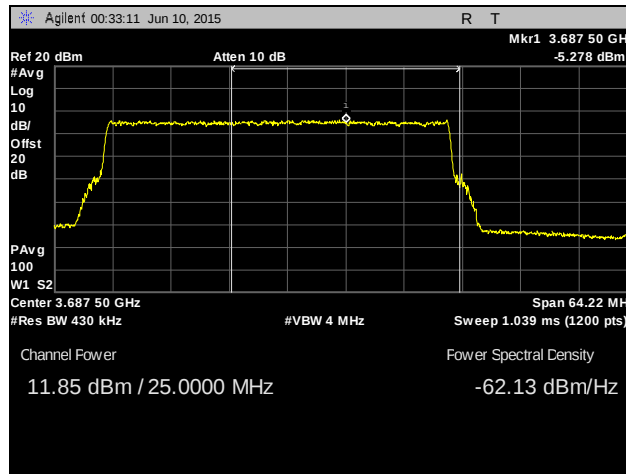
Plot 195. EIRP, Mid Channel, 40 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



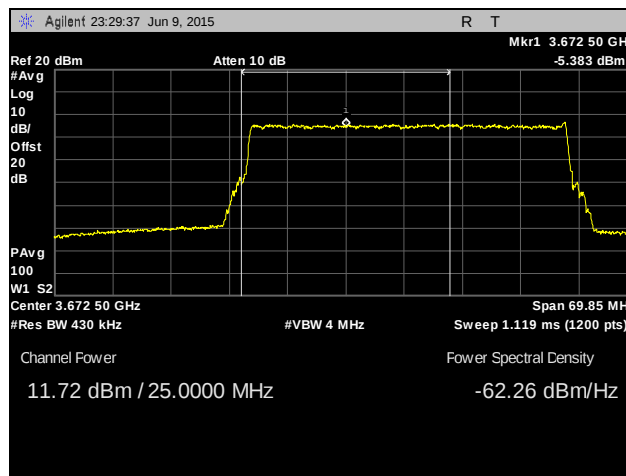
Plot 196. EIRP, Mid Channel, 40 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna



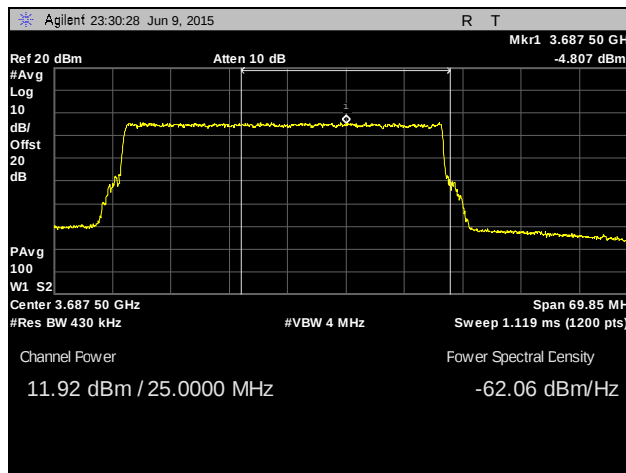
Plot 197. EIRP, High Channel, 40 MHz, Chain 0, Lower 25 MHz, 29 dBi Antenna



Plot 198. EIRP, High Channel, 40 MHz, Chain 0, Upper 25 MHz, 29 dBi Antenna



Plot 199. EIRP, High Channel, 40 MHz, Chain 1, Lower 25 MHz, 29 dBi Antenna



Plot 200. EIRP, High Channel, 40 MHz, Chain 1, Upper 25 MHz, 29 dBi Antenna

3.2. Peak Power Spectral Density

Test Requirement(s): §90. 1321 (a) and §90. 1321 (c)

Test Procedures: The EUT was connected to a Spectrum Analyzer through an attenuator. The Spectrum Analyzer was set to a RBW = 1 MHz and a VBW > 1MHz. A sample detector was selected on the spectrum analyzer along with power averaging. The Peak Power Spectral Density was determined by detecting the highest emission within the EUT's occupied bandwidth. Measurements were performed at the low, mid and high channels for each of the EUT's bandwidths and modulations.

Limits: For Base and Fixed stations the radiated Peak Power Spectral Density limit is 30dBm or 1000mW.
For mobile and portable stations the radiated Peak Power Spectral Density limit is 16dBm or 40mW

Test Results: Equipment complies with 90.1321(a) for Base and Fixed Stations. The antenna gain limits provided assume a professional installation of the device to set the minimum channel bandwidth according to the installed antenna gain. If professional installation is not used, then the maximum gain of the device is 18 dBi.

Test Engineer(s): Djed Mouada

Test Date(s): 06/12/15



Figure 2. PPSD Test Setup

3.5MHz								
Frequency	Antenna 1 PSD	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit W	Margin
3.65175	15.452	13.287	17.513	12	29.513	0.8939228	1	-0.1060772
3.675	14.651	14.716	17.694	12	29.694	0.9319659	1	-0.0680341
3.69825	15.221	14.24	17.768	12	29.768	0.9479818	1	-0.0520182
5MHz								
Frequency	Antenna 1 PSD	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.6525	13.595	14.78	17.238	12	29.238	0.8390735	1	-0.1609265
3.675	14.211	13.475	16.869	12	28.869	0.770726	1	-0.229274
3.6975	14.241	12.844	16.609	12	28.609	0.7259388	1	-0.2740612
7 MHz								
Frequency	Antenna 1 PSD	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.6535	14.392	13.192	16.844	12	28.844	0.7663021	1	-0.2336979
3.675	14.437	13.85	17.164	12	29.164	0.8248975	1	-0.1751025
3.6965	14.353	12.105	16.383	12	28.383	0.6891282	1	-0.3108718
10 MHz								
Frequency	Antenna 1 PSD	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.655	13.63	12.773	16.233	12	28.233	0.6657329	1	-0.3342671
3.675	13.006	12.5	15.771	12	27.771	0.5985494	1	-0.4014506
3.695	13.561	12.364	16.014	12	28.014	0.6329946	1	-0.3670054
14 MHz								
Frequency	Antenna 1 Power	Antenna 2 Power	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.657	13.15	12.44	15.82	12	27.82	0.6053409	1	-0.3946591
3.675	11.488	10.661	14.104	12	26.104	0.4077557	1	-0.5922443
3.693	12.591	10.879	14.829	12	26.829	0.4818368	1	-0.5181632
20 MHz								
Frequency	Antenna 1 Power	Antenna 2 Power	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.66	11.917	11.24	14.602	12	26.602	0.4572987	1	-0.5427013
3.675	9.246	11.465	13.506	12	25.506	0.3553039	1	-0.6446961
3.69	12.195	9.63	14.109	12	26.109	0.4082254	1	-0.5917746
28 MHz								
Frequency	Antenna 1 Power	Antenna 2 Power	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.664	10.169	9.257	12.747	12	24.747	0.2983321	1	-0.7016679
3.675	9.432	8.365	11.941	12	23.941	0.2477993	1	-0.7522007
3.686	9.509	8.94	12.244	12	24.244	0.2657052	1	-0.7342948
30 MHz								
Frequency		Antenna 2 Power	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.665	9.703	9.431	12.579	12	24.579	0.287012	1	-0.712988
3.675	8.808	8.41	11.624	12	23.624	0.2303563	1	-0.7696437
3.685	8.692	9.367	12.053	12	24.053	0.2542729	1	-0.7457271
40 MHz								
Frequency	Antenna 1 Power	Antenna 2 Power	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.67	8.276	8.099	11.199	12	23.199	0.2088815	1	-0.7911185
3.675	8.321	7.904	11.128	12	23.128	0.2054944	1	-0.7945056
3.68	9.28	8.643	11.983	12	23.983	0.2502073	1	-0.7497927

Table 7. Peak Power Spectral Density, Test Results, 12 dBi Antenna

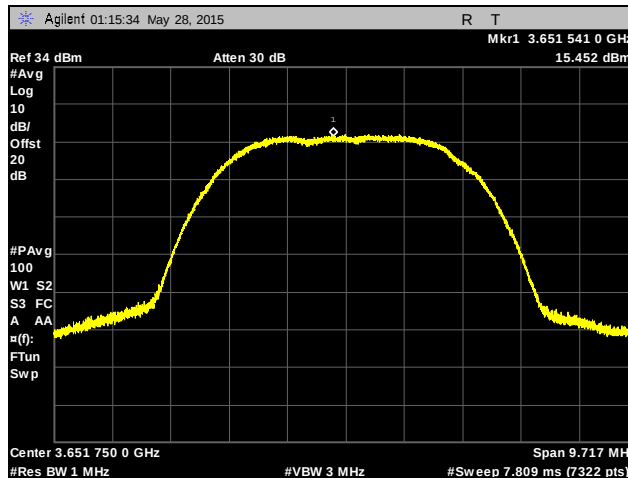
3.5 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.65175	0.988	0.822	3.916	26	29.916	0.9808441	1	-0.0191559
3.675	0.578	0.91	3.757	26	29.757	0.9455837	1	-0.0544163
3.69825	0.683	0.85	3.778	26	29.778	0.9501671	1	-0.0498329
5 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.6525	0.898	0.725	3.823	26	29.823	0.9600636	1	-0.0399364
3.675	0.951	0.49	3.737	26	29.737	0.9412392	1	-0.0587608
3.6975	0.251	0.506	3.391	26	29.391	0.8691605	1	-0.1308395
7 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.6535	0.344	0.952	3.669	26	29.669	0.9266164	1	-0.0733836
3.675	0.43	0.725	3.59	26	29.59	0.9099133	1	-0.0900867
3.6965	0.541	0.551	3.556	26	29.556	0.9028176	1	-0.0971824
10 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.655	0.967	0.488	3.744	26	29.744	0.9427575	1	-0.0572425
3.675	0.579	0.86	3.732	26	29.732	0.9401562	1	-0.0598438
3.695	0.529	0.711	3.631	26	29.631	0.9185441	1	-0.0814559
14 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.657	0.904	0.936	3.93	26	29.93	0.9840111	1	-0.0159889
3.675	0.89	0.854	3.882	26	29.882	0.9731953	1	-0.0268047
3.693	0.745	0.869	3.818	26	29.818	0.9589589	1	-0.0410411
20 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.66	0.541	0.141	3.356	26	29.356	0.8621841	1	-0.1378159
3.675	0.515	0.518	3.527	26	29.527	0.8968091	1	-0.1031909
3.69	0.831	0.888	3.87	26	29.87	0.97051	1	-0.02949
28 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.664	0.325	0.336	3.341	26	29.341	0.8592113	1	-0.1407887
3.675	0.136	0.349	3.254	26	29.254	0.8421705	1	-0.1578295
3.686	0.402	0.475	3.449	26	29.449	0.880846	1	-0.119154
30 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.665	0.487	0.463	3.485	26	29.485	0.888178	1	-0.111822
3.675	0.277	0.373	3.336	26	29.336	0.8582227	1	-0.1417773
3.685	0.203	0.376	3.301	26	29.301	0.851334	1	-0.148666
40 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.67	0.376	0.344	3.37	26	29.37	0.8649679	1	-0.1350321
3.675	0.324	0.382	3.363	26	29.363	0.8635749	1	-0.1364251
3.68	0.094	0.273	3.195	26	29.195	0.8308067	1	-0.1691933

Table 8. Peak Power Spectral Density, Test Results, 26 dBi Antenna

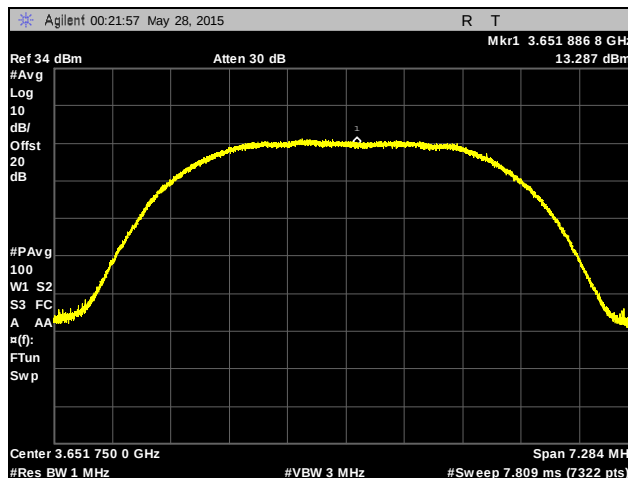
3.5 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.65175	-2.459	-2.707	0.429	29	29.429	0.8767989	1	-0.1232011
3.675	-2.322	-2.689	0.509	29	29.509	0.8930998	1	-0.1069002
3.69825	-2.402	-2.667	0.478	29	29.478	0.8867476	1	-0.1132524
5 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.6525	-2.768	-2.801	0.226	29	29.226	0.8367582	1	-0.1632418
3.675	-2.446	-2.931	0.329	29	29.329	0.8568405	1	-0.1431595
3.6975	-2.712	-2.488	0.412	29	29.412	0.8733735	1	-0.1266265
7 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.6535	-2.874	-3.777	-0.292	29	28.708	0.742677	1	-0.257323
3.675	-2.584	-2.877	0.282	29	29.282	0.8476177	1	-0.1523823
3.6965	-2.754	-2.854	0.207	29	29.207	0.8331055	1	-0.1668945
10 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.655	-3.848	-3.591	-0.707	29	28.293	0.6749941	1	-0.3250059
3.675	-3.49	-3.634	-0.551	29	28.449	0.6996809	1	-0.3003191
3.695	-2.868	-2.306	0.432	29	29.432	0.8774048	1	-0.1225952
14 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.657	-2.975	-2.911	0.067	29	29.067	0.8066776	1	-0.1933224
3.675	-2.808	-2.653	0.28	29	29.28	0.8472274	1	-0.1527726
3.693	-2.767	-2.936	0.16	29	29.16	0.8241381	1	-0.1758619
20 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.66	-3.506	-2.417	0.083	29	29.083	0.809655	1	-0.190345
3.675	-2.866	-3.251	-0.044	29	28.956	0.7863212	1	-0.2136788
3.69	-2.67	-2.023	0.676	29	29.676	0.9281112	1	-0.0718888
28 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.664	-1.553	-2.891	0.84	29	29.84	0.963829	1	-0.036171
3.675	-1.57	-2.97	0.796	29	29.796	0.9541134	1	-0.0458866
3.686	-1.95	-2.084	0.994	29	29.994	0.9986194	1	-0.0013806
30 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.665	-3.174	-2.232	0.333	29	29.333	0.8576301	1	-0.1423699
3.675	-1.75	-2.57	0.87	29	29.87	0.97051	1	-0.02949
3.685	-1.411	-3.306	0.754	29	29.754	0.9449308	1	-0.0550692
40 MHz								
Frequency	Antenna 1 PSD(dBm)	Antenna 2 PSD(dBm)	Sum(dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP /w	Limit (W)	Margin
3.67	-2.165	-2.341	0.758	29	29.758	0.9458015	1	-0.0541985
3.675	-2.103	-2.226	0.846	29	29.846	0.9651615	1	-0.0348385
3.68	-1.442	-2.719	0.977	29	29.977	0.9947181	1	-0.0052819

Table 9. Peak Power Spectral Density, Test Results, 29dBi Antenna

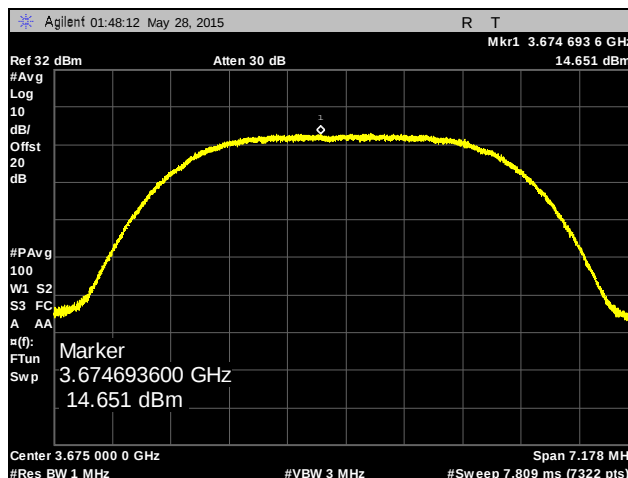
Peak Power Spectral Density, 12 dBi Antenna



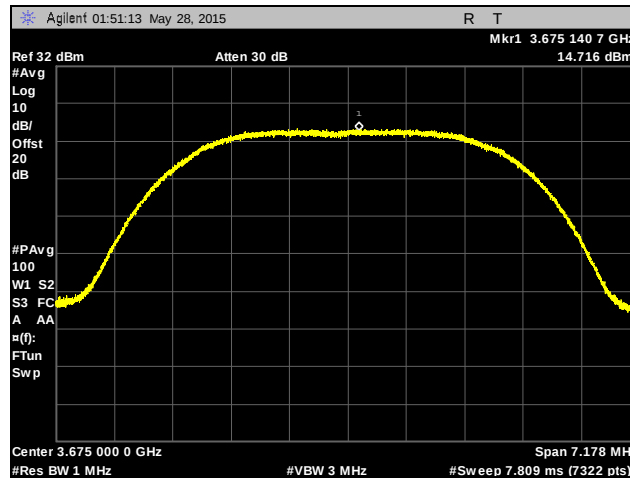
Plot 201. PSD, Low Channel, 3.5 MHz, Chain 0, 12 dBi Antenna



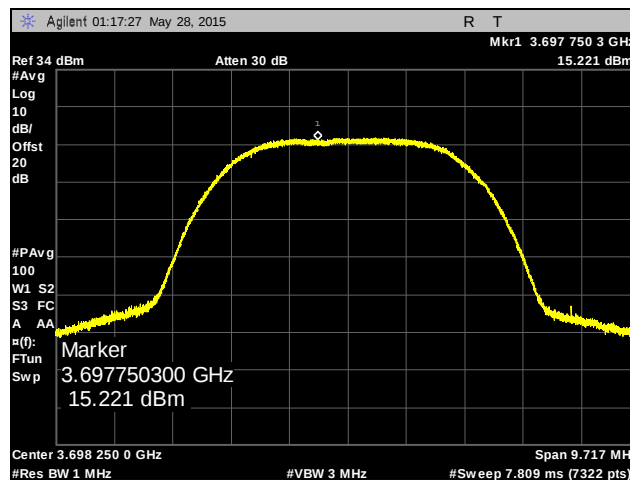
Plot 202. PSD, Low Channel, 3.5 MHz, Chain 1, 12 dBi Antenna



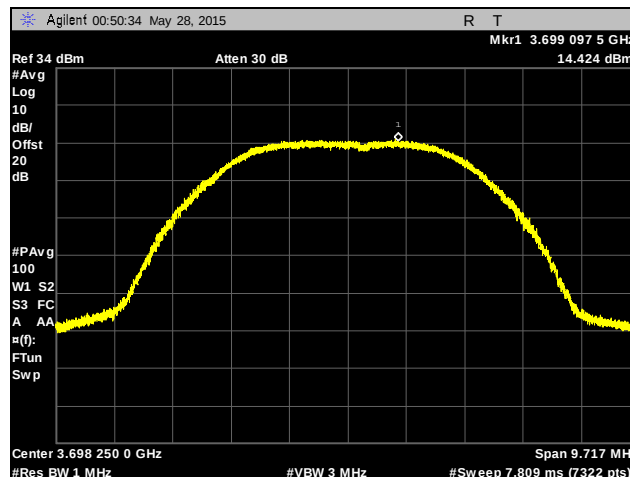
Plot 203. PSD, Mid Channel, 3.5 MHz, Chain 0, 12 dBi Antenna



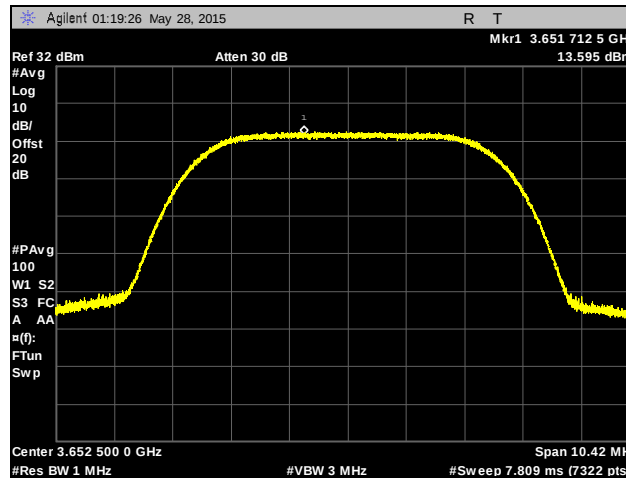
Plot 204. PSD, Mid Channel, 3.5 MHz, Chain 1, 12 dBi Antenna



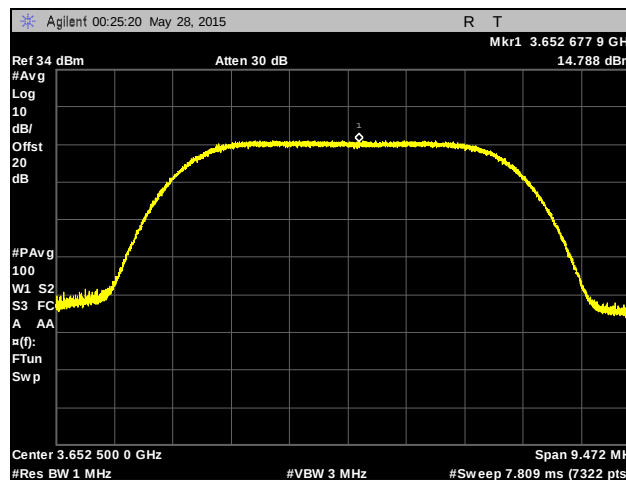
Plot 205. PSD, High Channel, 3.5 MHz, Chain 0, 12 dBi Antenna



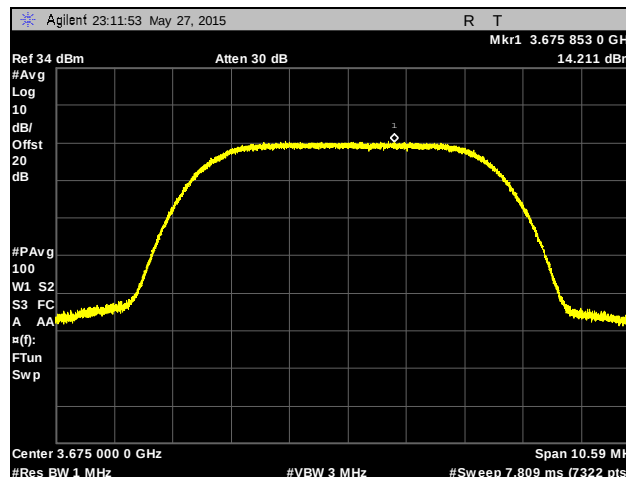
Plot 206. PSD, High Channel, 3.5 MHz, Chain 1, 12 dBi Antenna



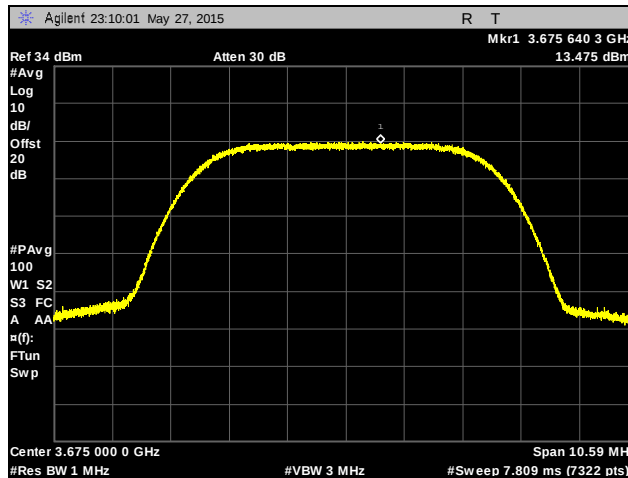
Plot 207. PSD, Low Channel, 5 MHz, Chain 0, 12 dBi Antenna



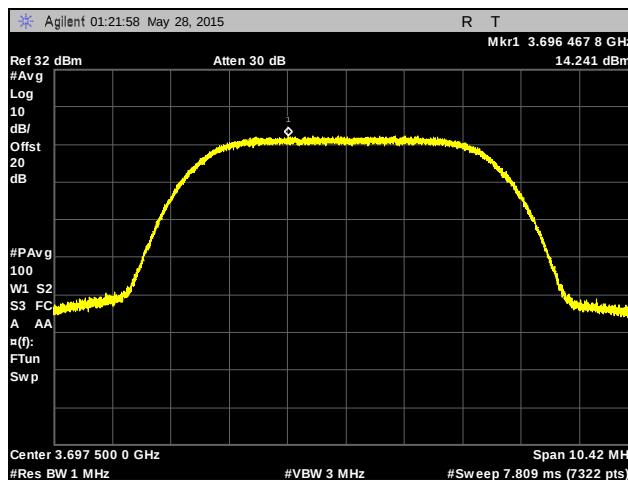
Plot 208. PSD, Low Channel, 5 MHz, Chain 1, 12 dBi Antenna



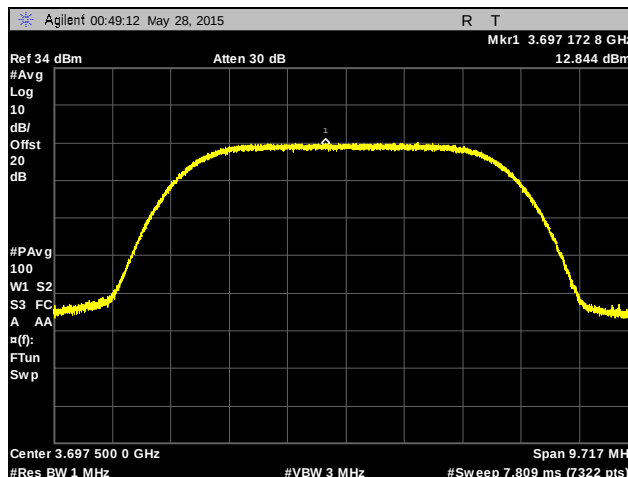
Plot 209. PSD, Mid Channel, 5 MHz, Chain 0, 12 dBi Antenna



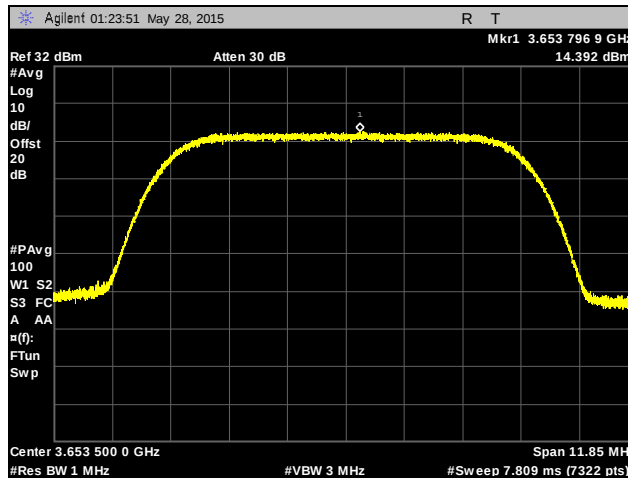
Plot 210. PSD, Mid Channel, 5 MHz, Chain 1, 12 dBi Antenna



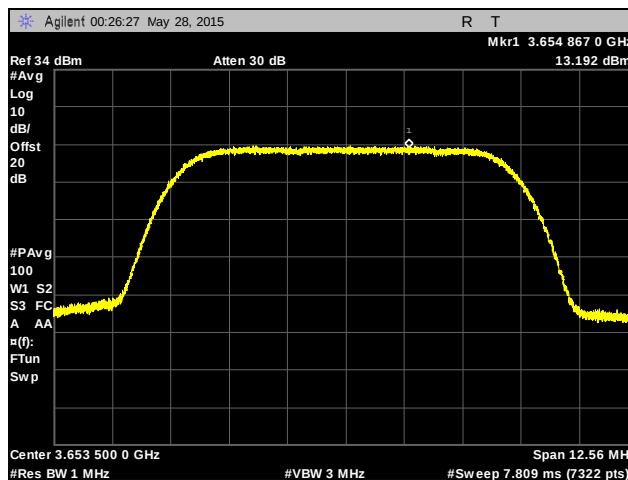
Plot 211. PSD, High Channel, 5 MHz, Chain 0, 12 dBi Antenna



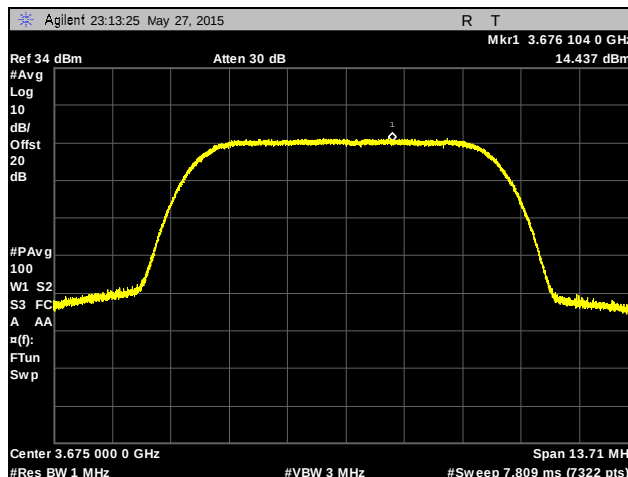
Plot 212. PSD, High Channel, 5 MHz, Chain 1, 12 dBi Antenna



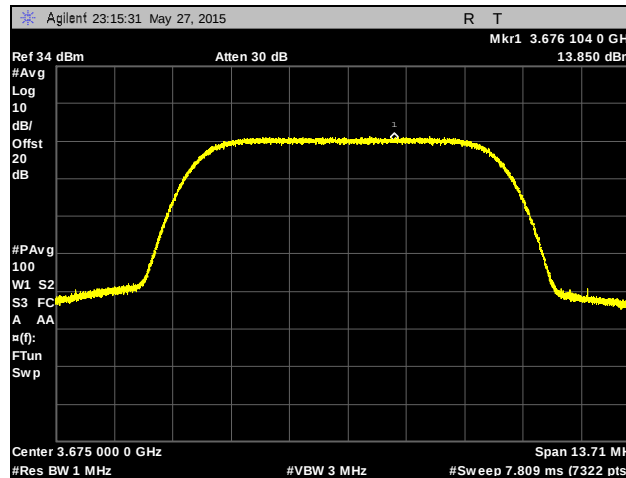
Plot 213. PSD, Low Channel, 7 MHz, Chain 0, 12 dBi Antenna



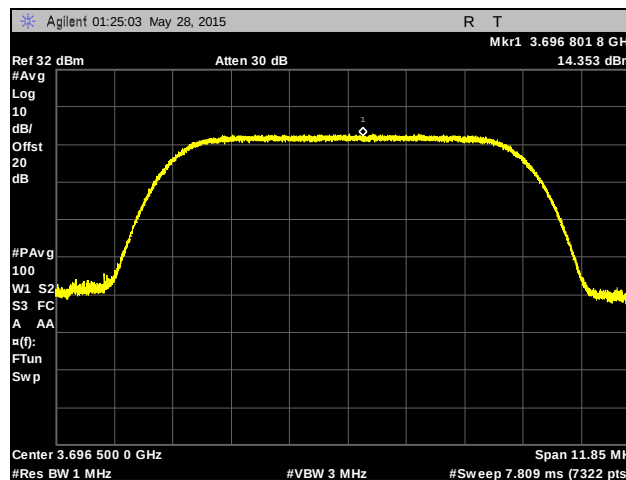
Plot 214. PSD, Low Channel, 7 MHz, Chain 1, 12 dBi Antenna



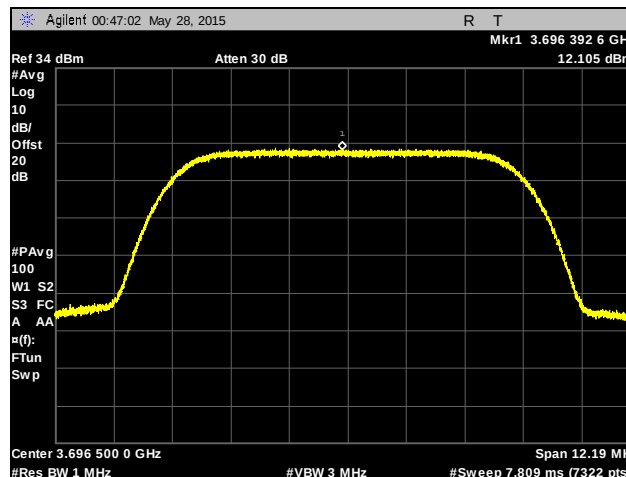
Plot 215. PSD, Mid Channel, 7 MHz, Chain 0, 12 dBi Antenna



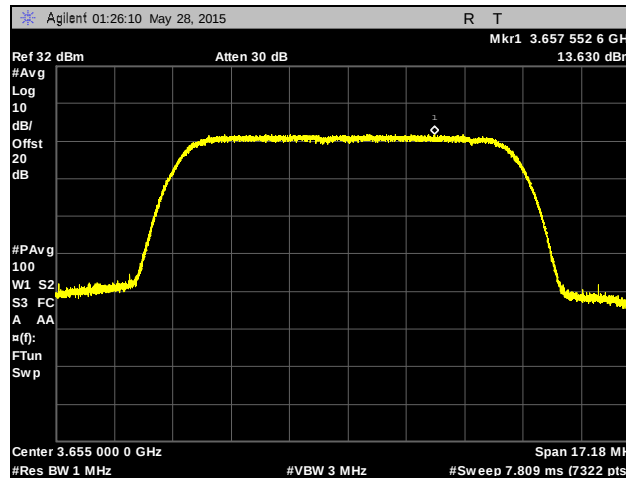
Plot 216. PSD, Mid Channel, 7 MHz, Chain 1, 12 dBi Antenna



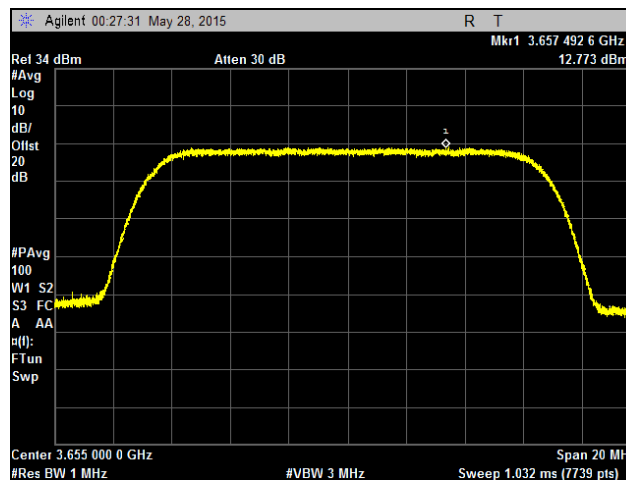
Plot 217. PSD, High Channel, 7 MHz, Chain 0, 12 dBi Antenna



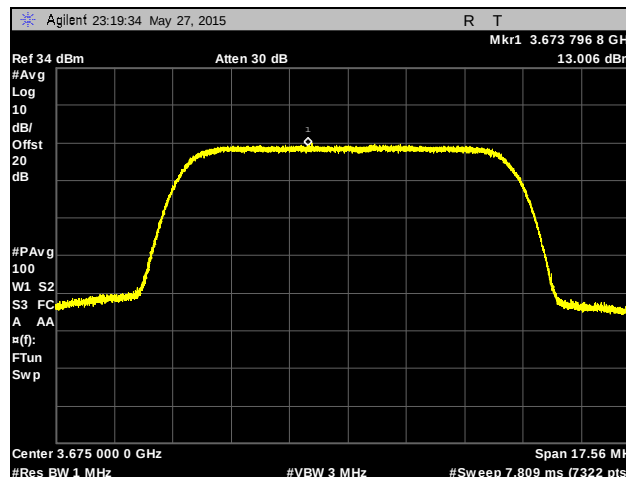
Plot 218. PSD, High Channel, 7 MHz, Chain 1, 12 dBi Antenna



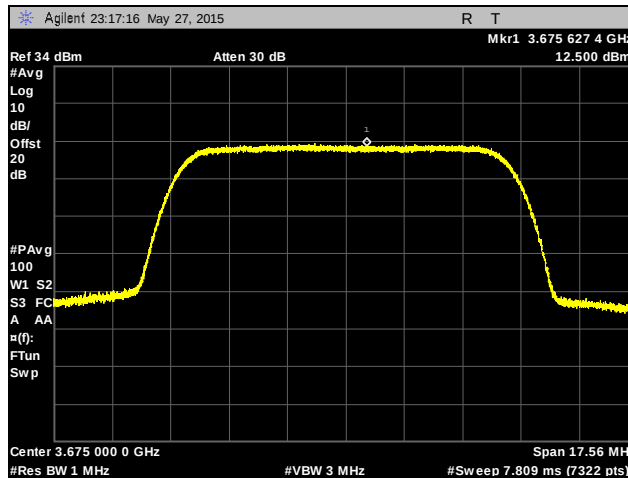
Plot 219. PSD, Low Channel, 10 MHz, Chain 0, 12 dBi Antenna



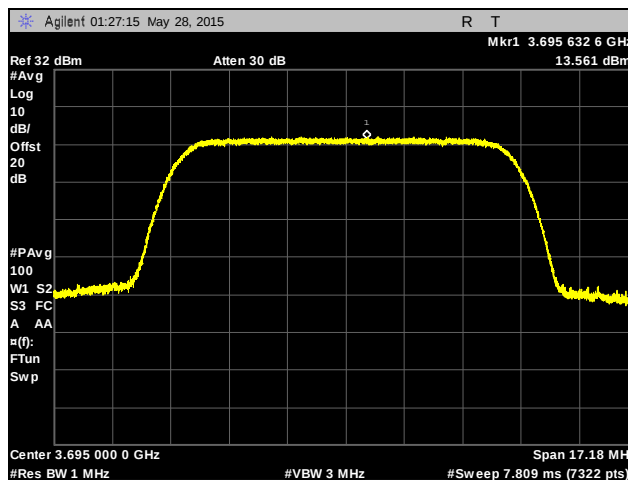
Plot 220. PSD, Low Channel, 10 MHz, Chain 1, 12 dBi Antenna



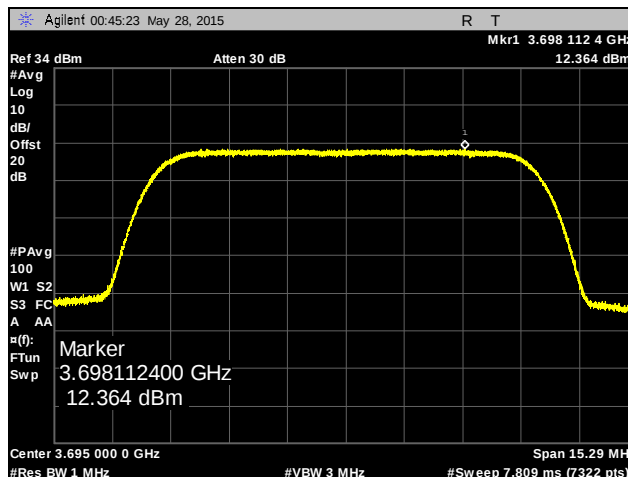
Plot 221. PSD, Mid Channel, 10 MHz, Chain 0, 12 dBi Antenna



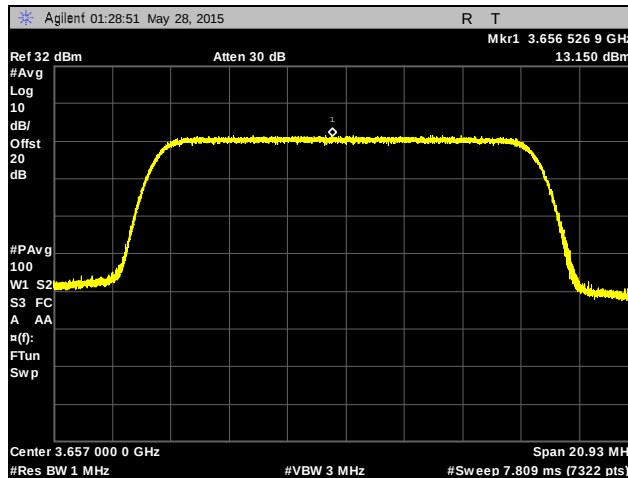
Plot 222. PSD, Mid Channel, 10 MHz, Chain 1, 12 dBi Antenna



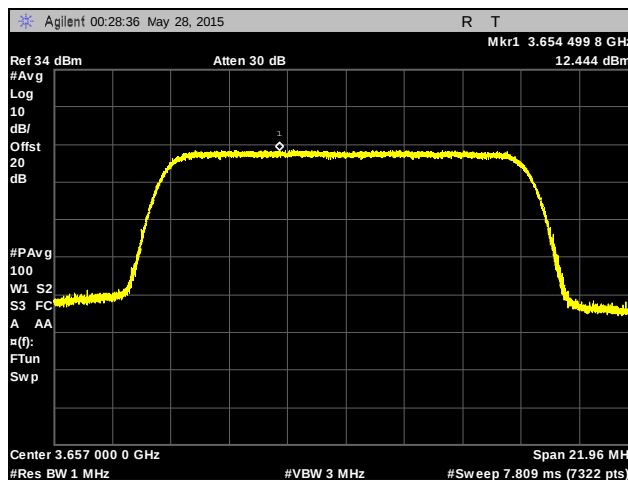
Plot 223. PSD, High Channel, 10 MHz, Chain 0, 12 dBi Antenna



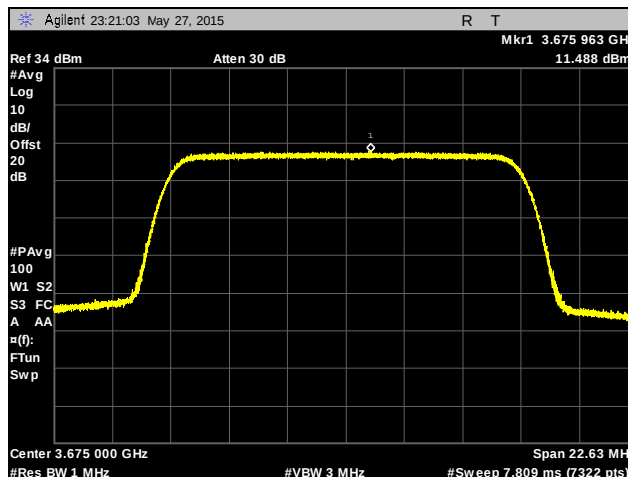
Plot 224. PSD, High Channel, 10 MHz, Chain 1, 12 dBi Antenna



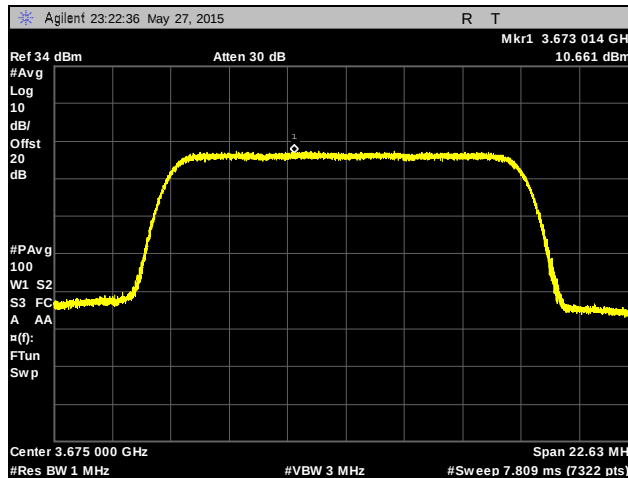
Plot 225. PSD, Low Channel, 14 MHz, Chain 0, 12 dBi Antenna



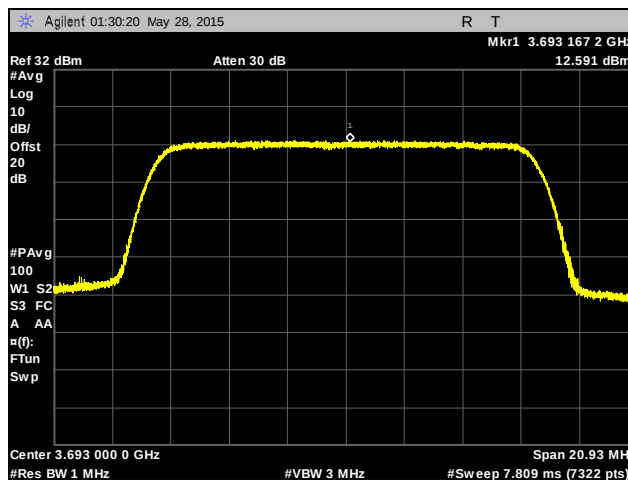
Plot 226. PSD, Low Channel, 14 MHz, Chain 1, 12 dBi Antenna



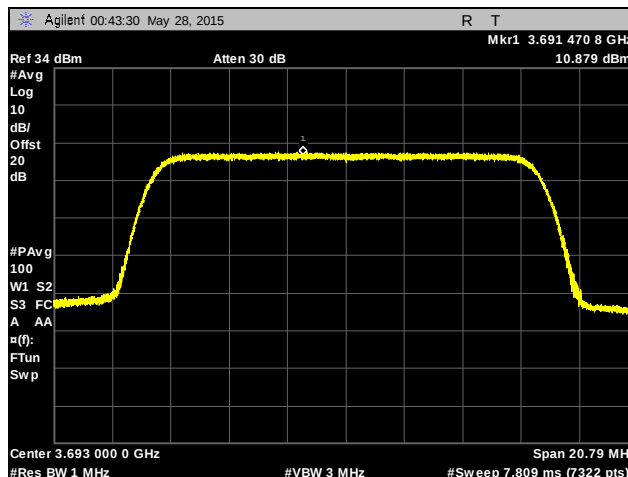
Plot 227. PSD, Mid Channel, 14 MHz, Chain 0, 12 dBi Antenna



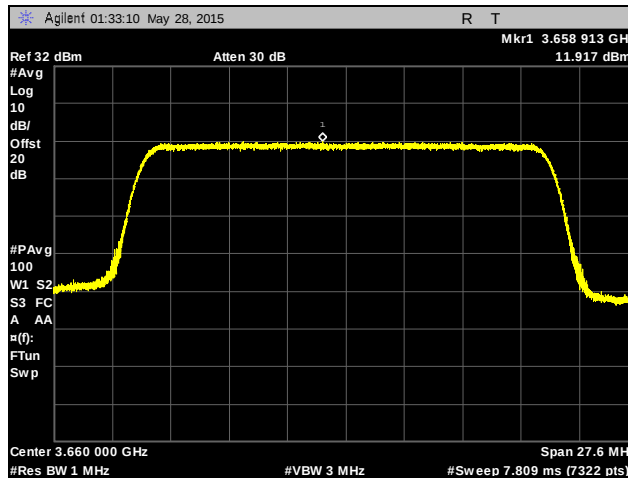
Plot 228. PSD, Mid Channel, 14 MHz, Chain 1, 12 dBi Antenna



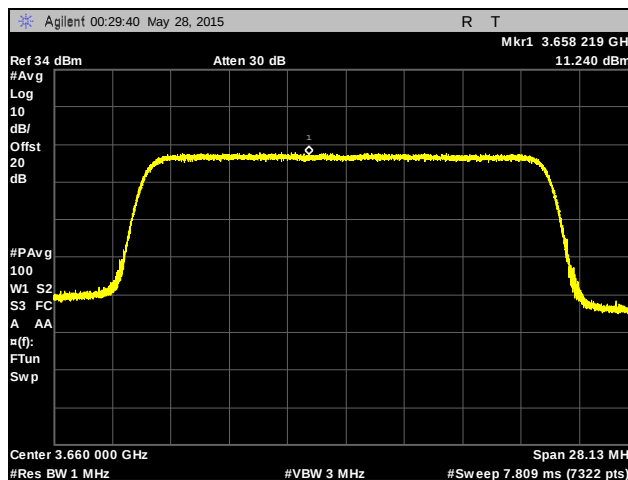
Plot 229. PSD, High Channel, 14 MHz, Chain 0, 12 dBi Antenna



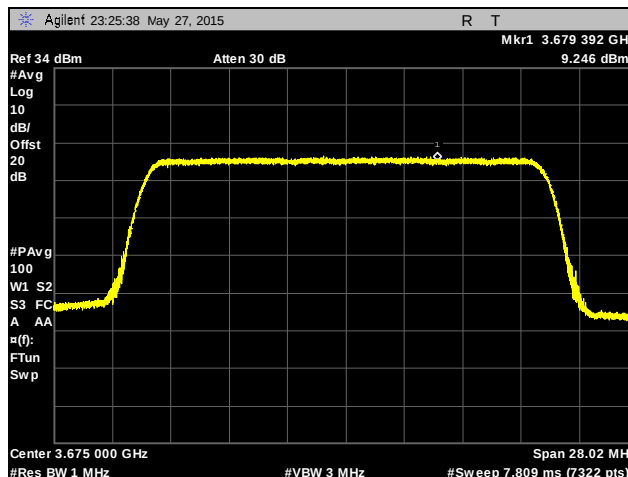
Plot 230. PSD, High Channel, 14 MHz, Chain 1, 12 dBi Antenna



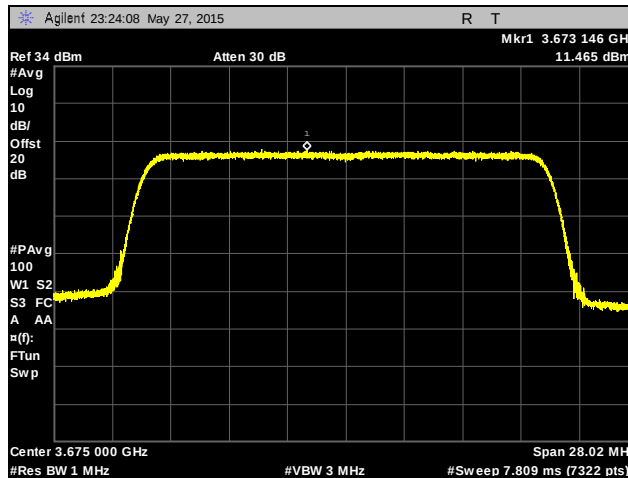
Plot 231. PSD, Low Channel, 20 MHz, Chain 0, 12 dBi Antenna



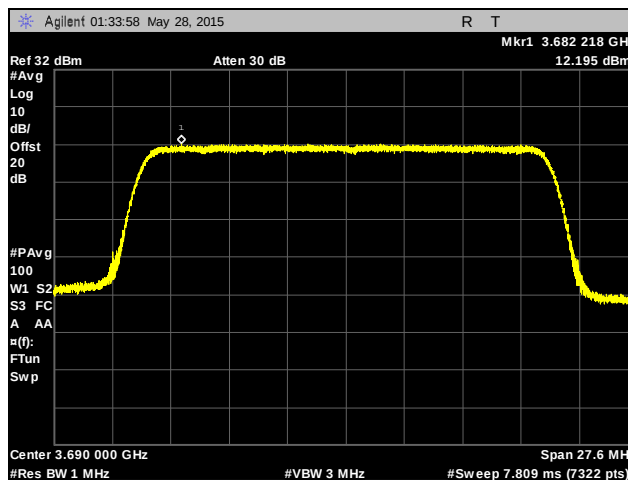
Plot 232. PSD, Low Channel, 20 MHz, Chain 1, 12 dBi Antenna



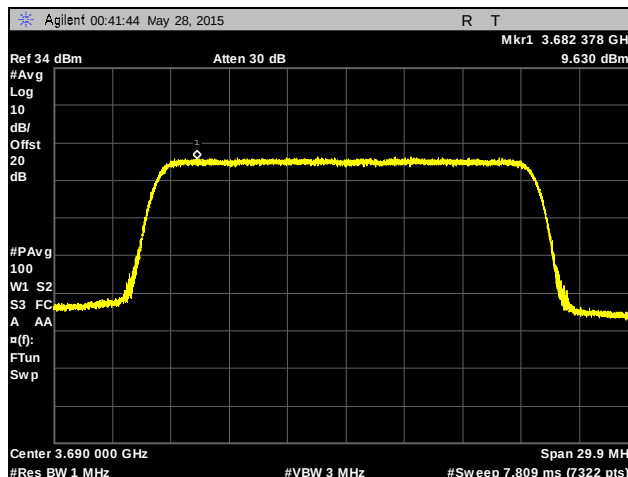
Plot 233. PSD, Mid Channel, 20 MHz, Chain 0, 12 dBi Antenna



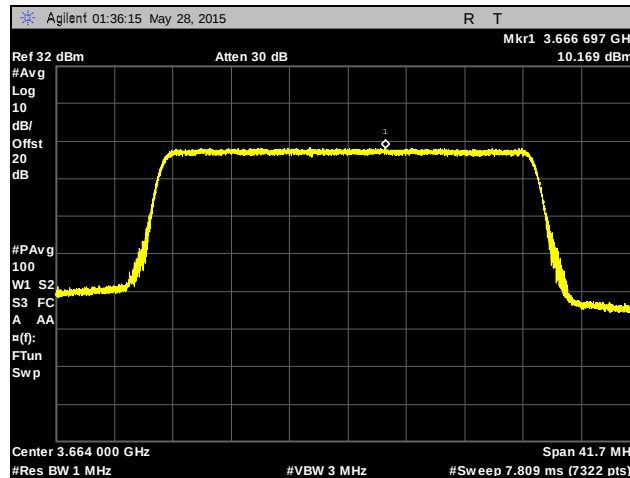
Plot 234. PSD, Mid Channel, 20 MHz, Chain 1, 12 dBi Antenna



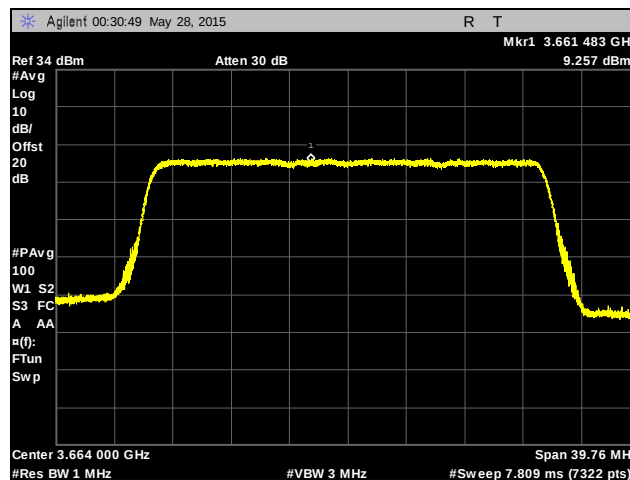
Plot 235. PSD, High Channel, 20 MHz, Chain 0, 12 dBi Antenna



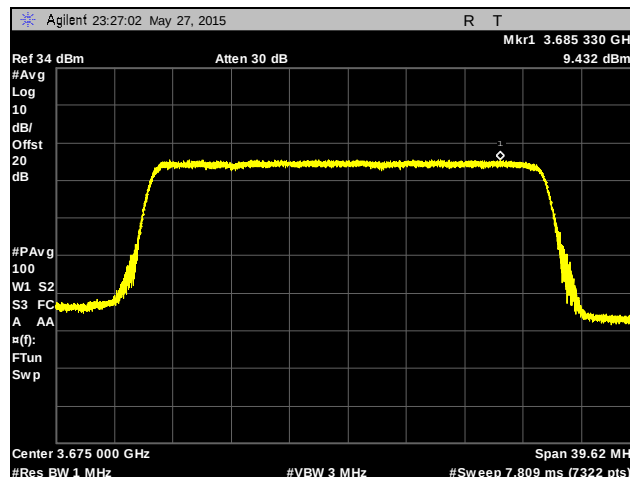
Plot 236. PSD, High Channel, 20 MHz, Chain 1, 12 dBi Antenna



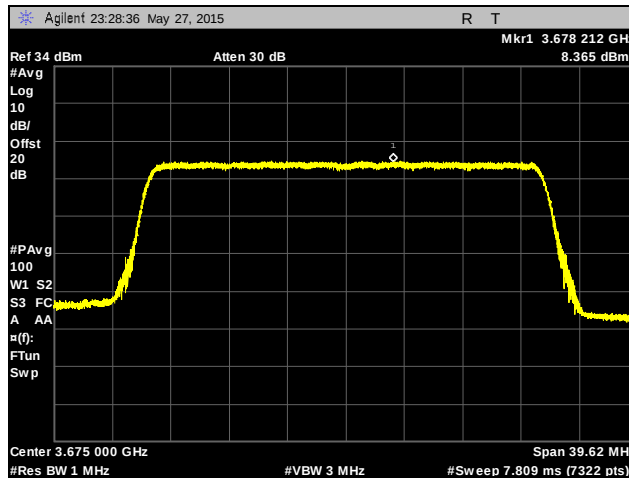
Plot 237. PSD, Low Channel, 28 MHz, Chain 0, 12 dBi Antenna



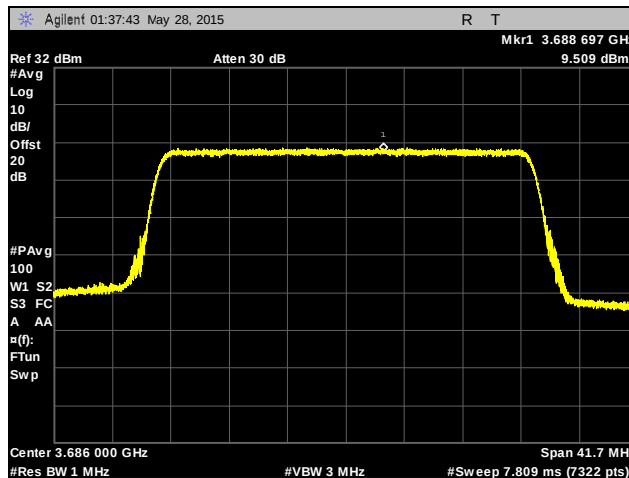
Plot 238. PSD, Low Channel, 28 MHz, Chain 1, 12 dBi Antenna



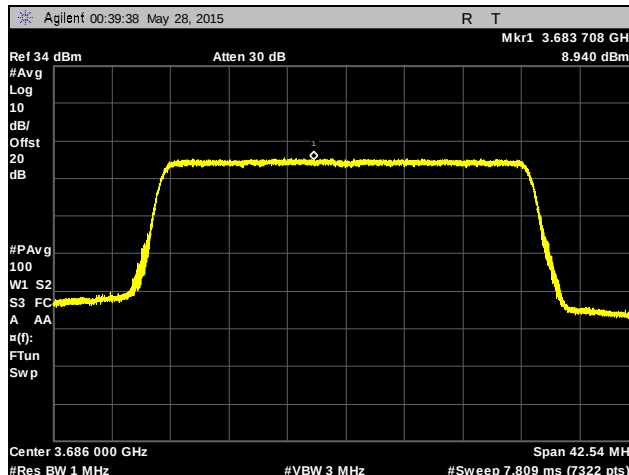
Plot 239. PSD, Mid Channel, 28 MHz, Chain 0, 12 dBi Antenna



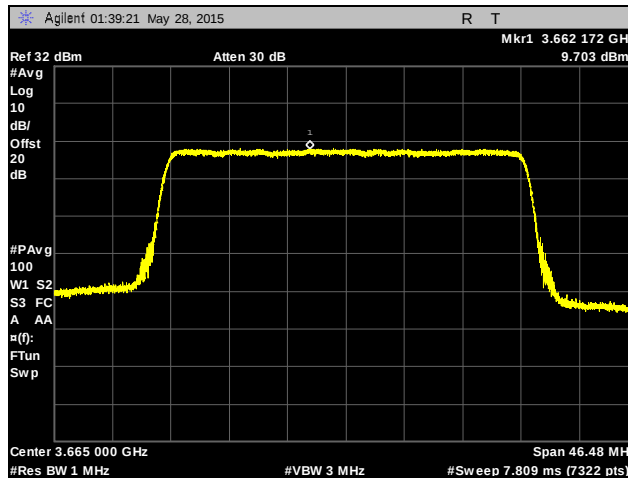
Plot 240. PSD, Mid Channel, 28 MHz, Chain 1, 12 dBi Antenna



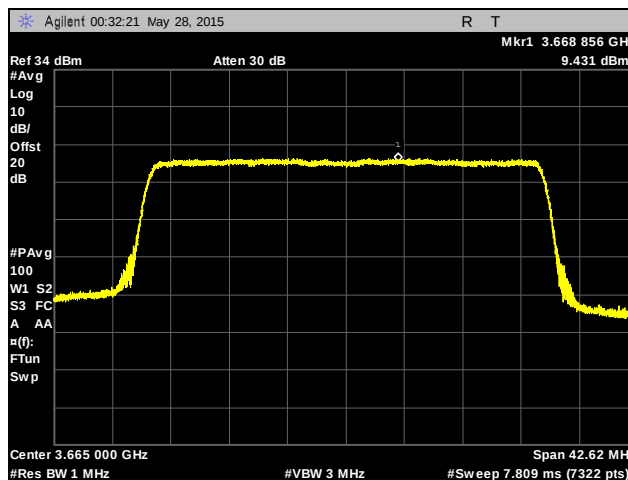
Plot 241. PSD, High Channel, 28 MHz, Chain 0, 12 dBi Antenna



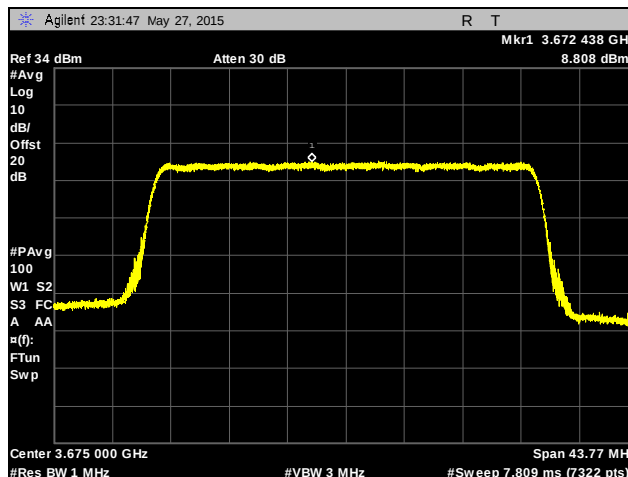
Plot 242. PSD, High Channel, 28 MHz, Chain 1, 12 dBi Antenna



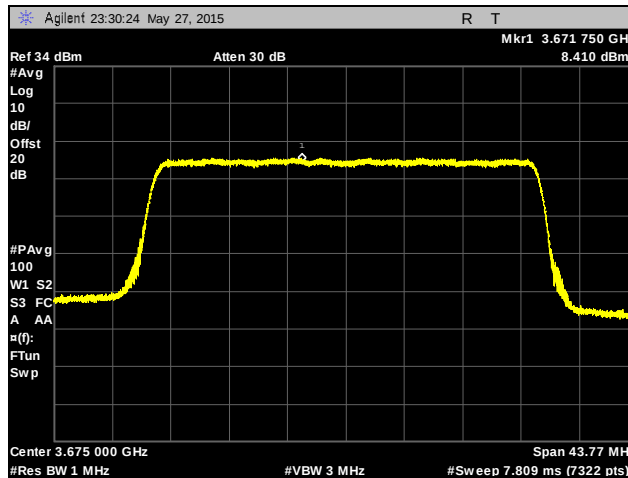
Plot 243. PSD, Low Channel, 30 MHz, Chain 0, 12 dBi Antenna



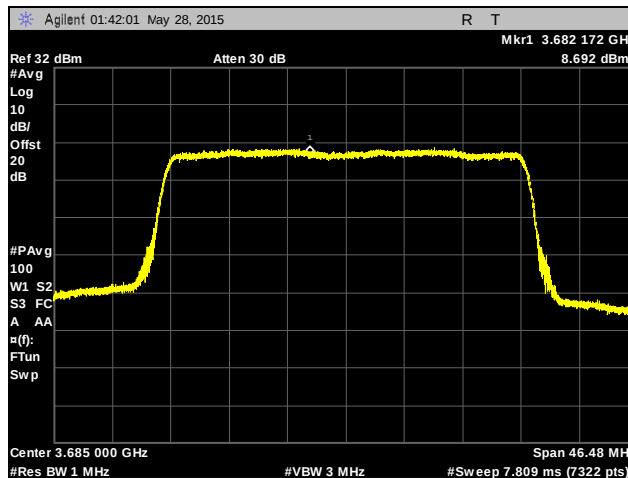
Plot 244. PSD, Low Channel, 30 MHz, Chain 1, 12 dBi Antenna



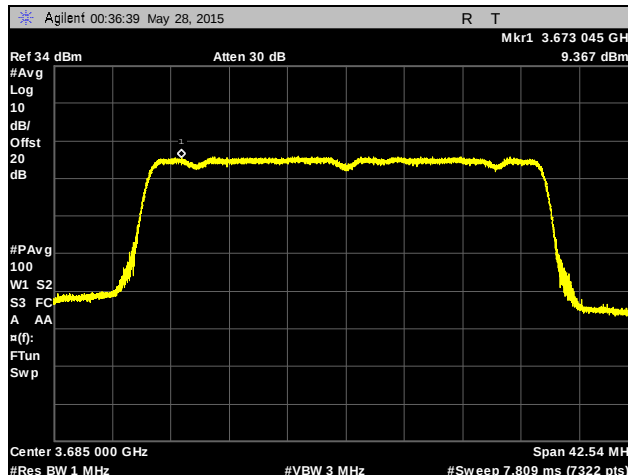
Plot 245. PSD, Mid Channel, 30 MHz, Chain 0, 12 dBi Antenna



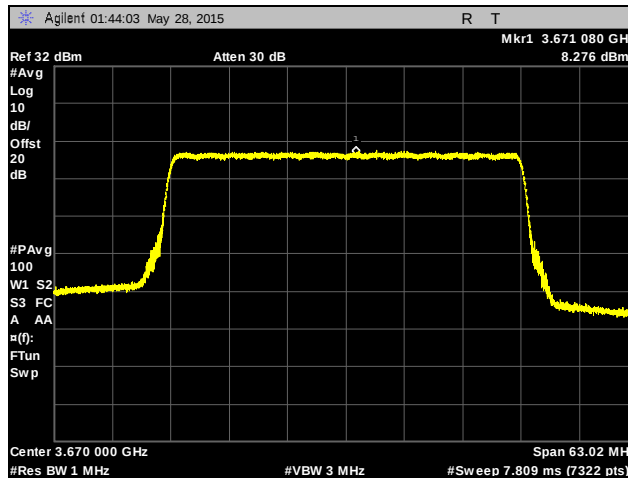
Plot 246. PSD, Mid Channel, 30 MHz, Chain 1, 12 dBi Antenna



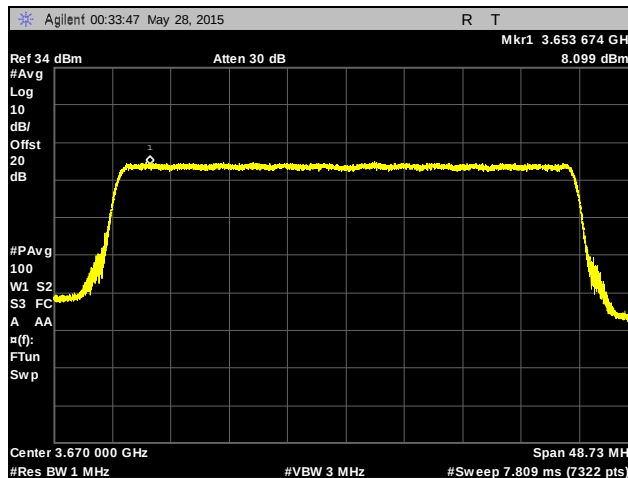
Plot 247. PSD, High Channel, 30 MHz, Chain 0, 12 dBi Antenna



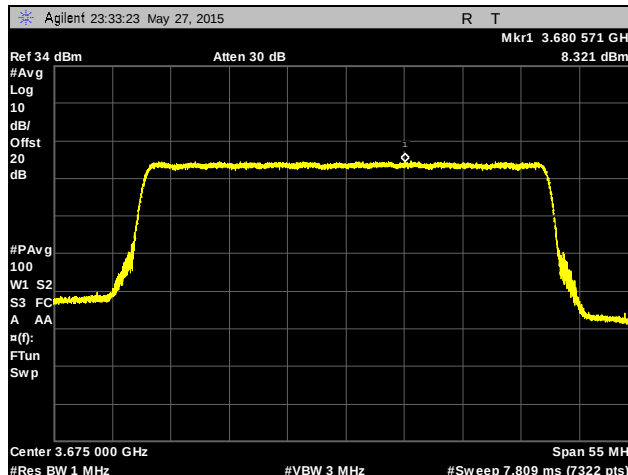
Plot 248. PSD, High Channel, 30 MHz, Chain 1, 12 dBi Antenna



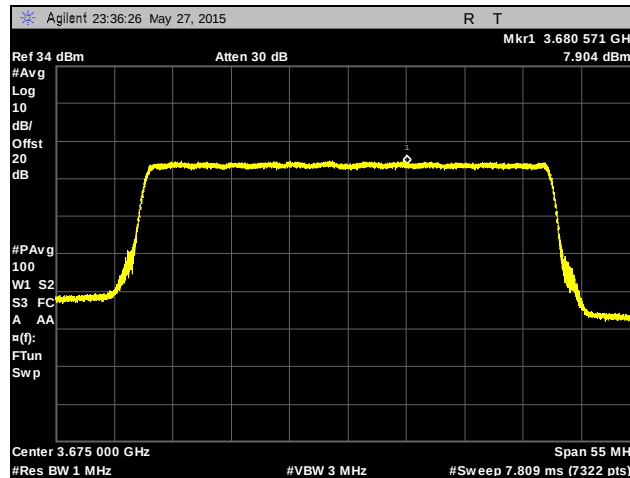
Plot 249. PSD, Low Channel, 40 MHz, Chain 0, 12 dBi Antenna



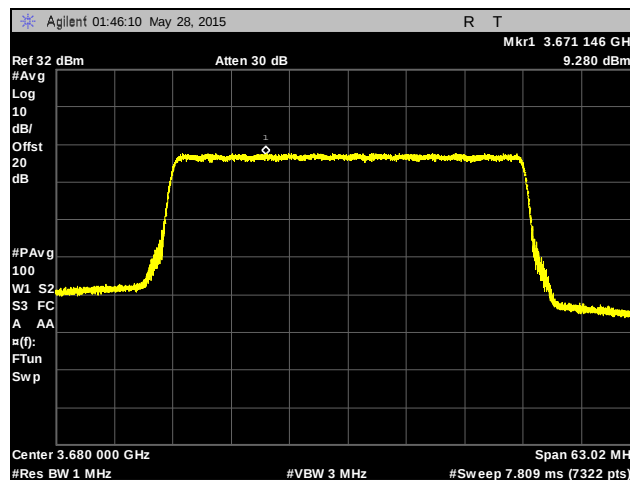
Plot 250. PSD, Low Channel, 40 MHz, Chain 1, 12 dBi Antenna



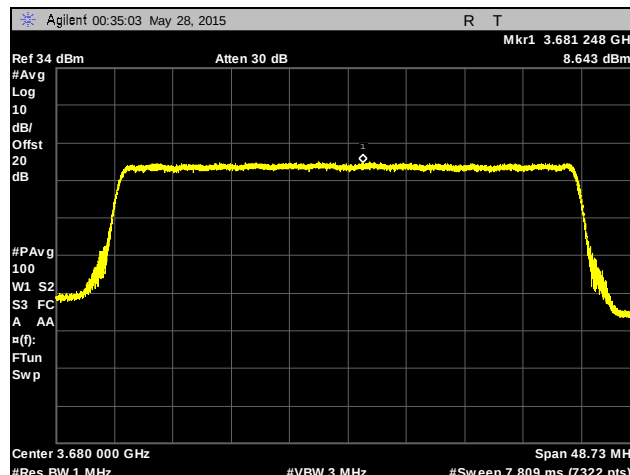
Plot 251. PSD, Mid Channel, 40 MHz, Chain 0, 12 dBi Antenna



Plot 252. PSD, Mid Channel, 40 MHz, Chain 1, 12 dBi Antenna

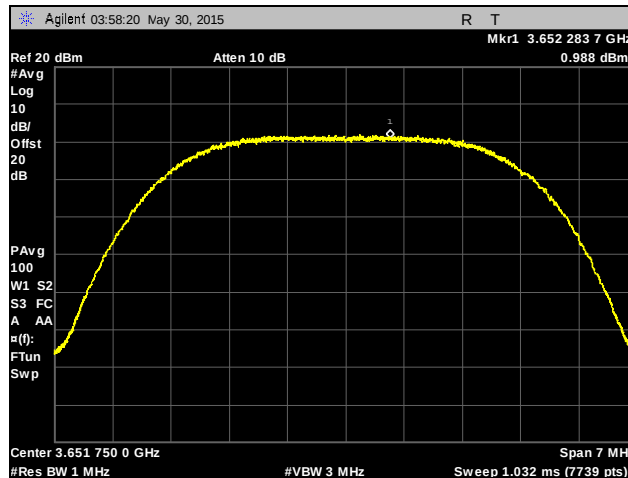


Plot 253. PSD, High Channel, 40 MHz, Chain 0, 12 dBi Antenna

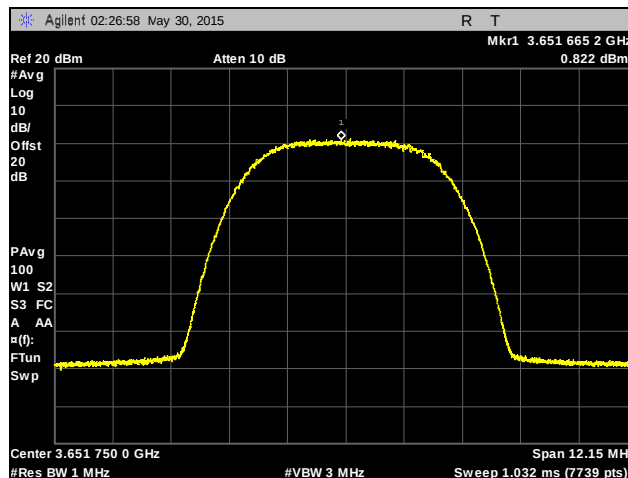


Plot 254. PSD, High Channel, 40 MHz, Chain 1, 12 dBi Antenna

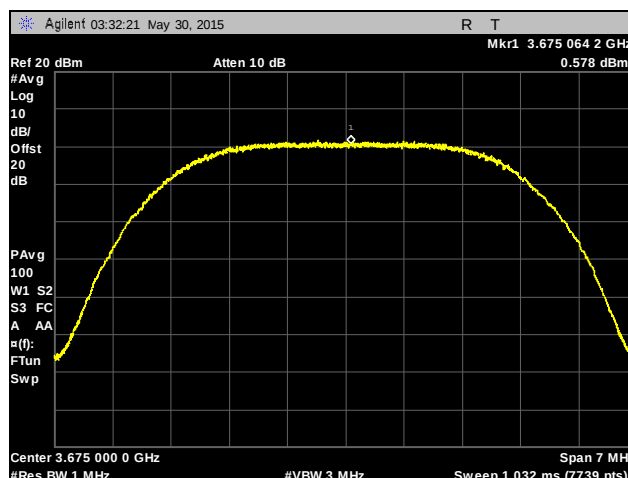
Peak Power Spectral Density, 26 dBi Antenna



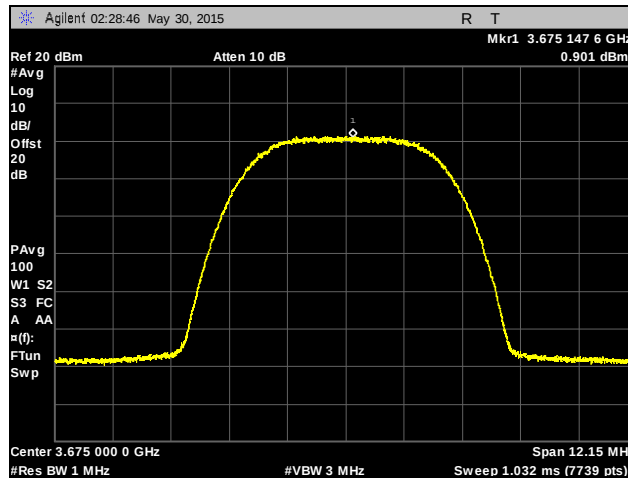
Plot 255. PSD, Low Channel, 3.5 MHz, Chain 0, 26 dBi Antenna



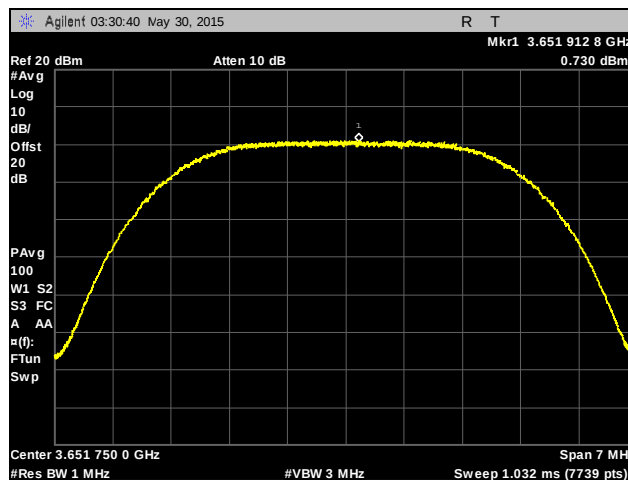
Plot 256. PSD, Low Channel, 3.5 MHz, Chain 1, 26 dBi Antenna



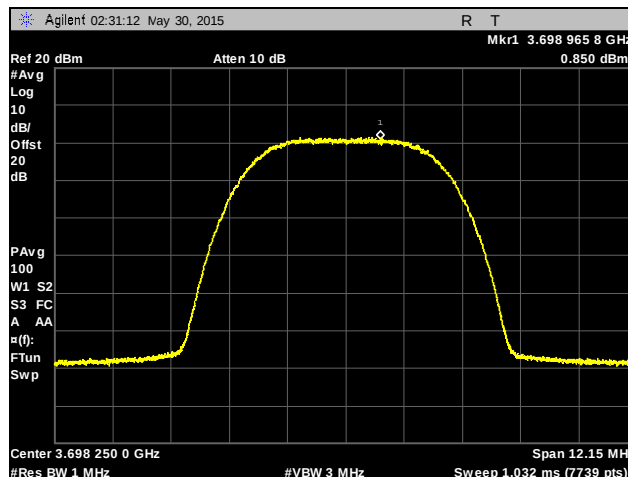
Plot 257. PSD, Mid Channel, 3.5 MHz, Chain 0, 26 dBi Antenna



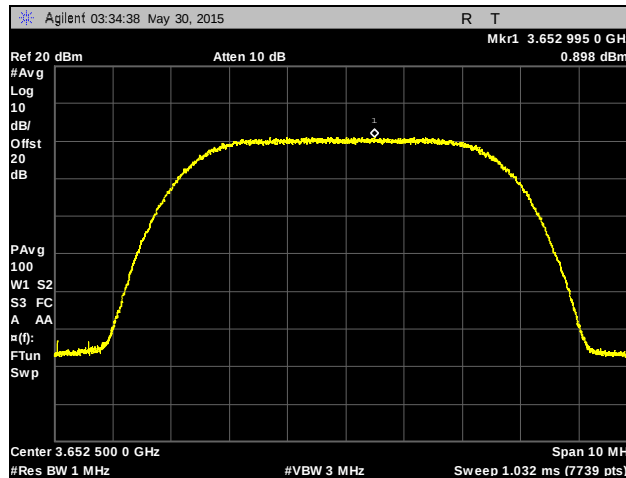
Plot 258. PSD, Mid Channel, 3.5 MHz, Chain 1, 26 dBi Antenna



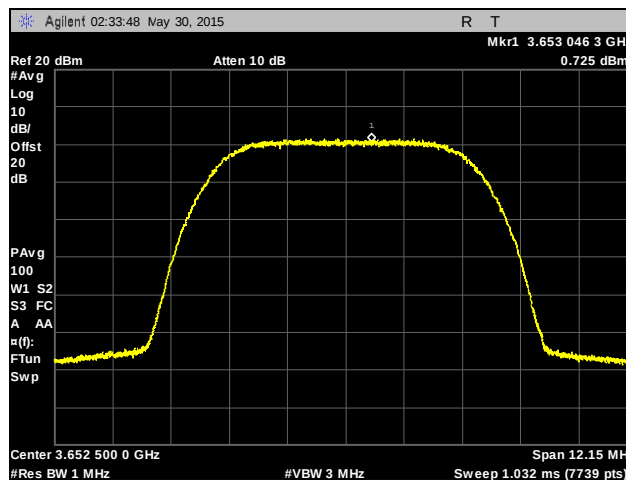
Plot 259. PSD, High Channel, 3.5 MHz, Chain 0, 26 dBi Antenna



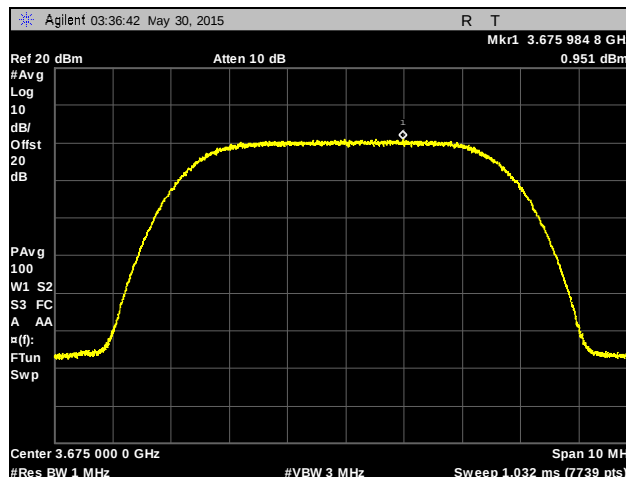
Plot 260. PSD, High Channel, 3.5 MHz, Chain 1, 26 dBi Antenna



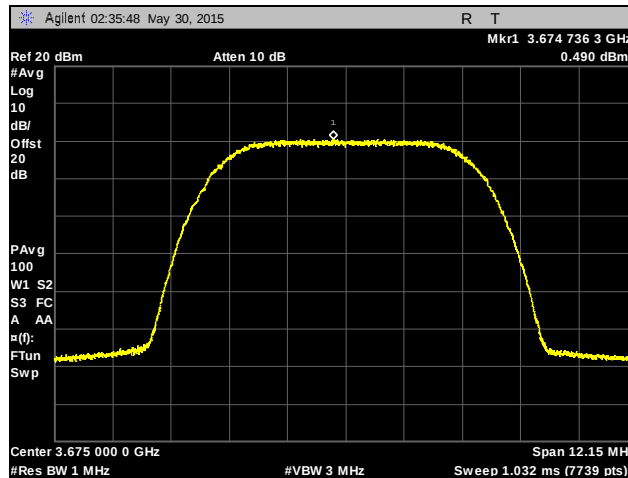
Plot 261. PSD, Low Channel, 5 MHz, Chain 0, 26 dBi Antenna



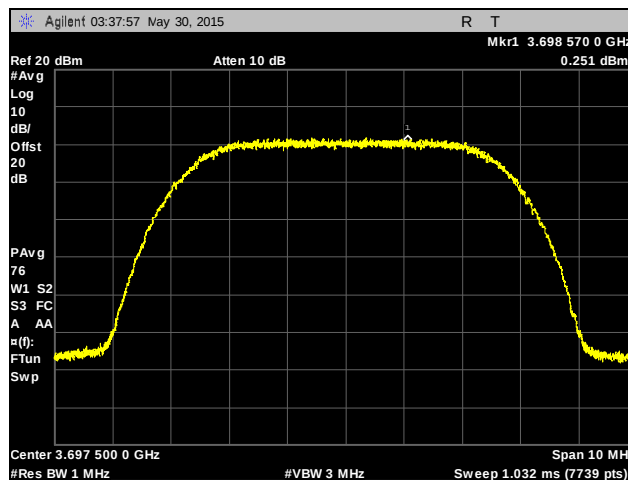
Plot 262. PSD, Low Channel, 5 MHz, Chain 1, 26 dBi Antenna



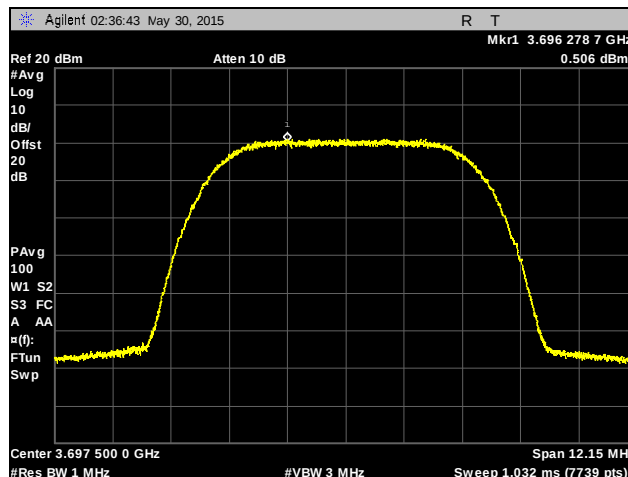
Plot 263. PSD, Mid Channel, 5 MHz, Chain 0, 26 dBi Antenna



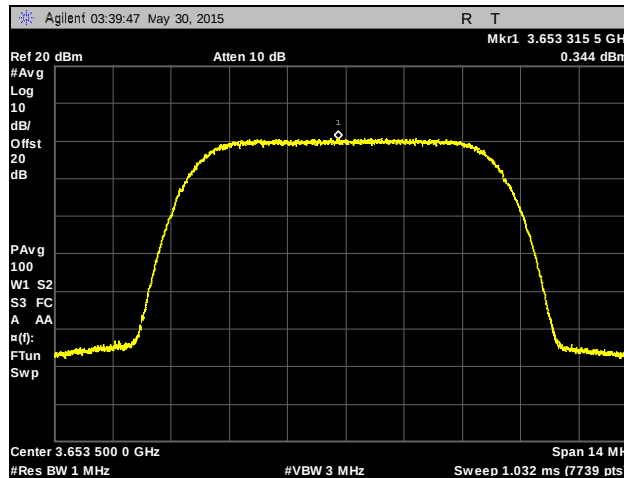
Plot 264. PSD, Mid Channel, 5 MHz, Chain 1, 26 dBi Antenna



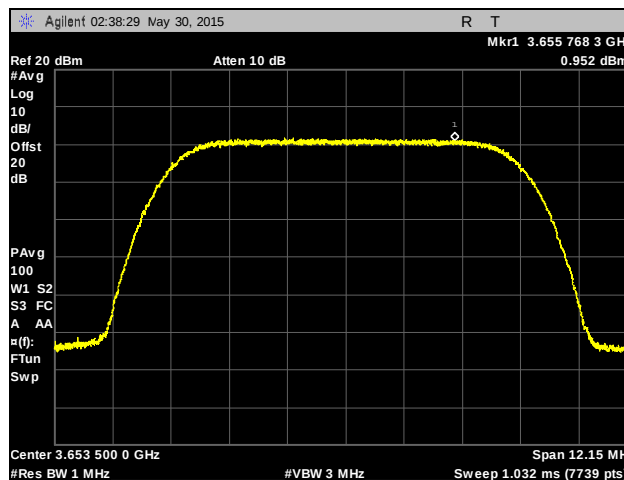
Plot 265. PSD, High Channel, 5 MHz, Chain 0, 26 dBi Antenna



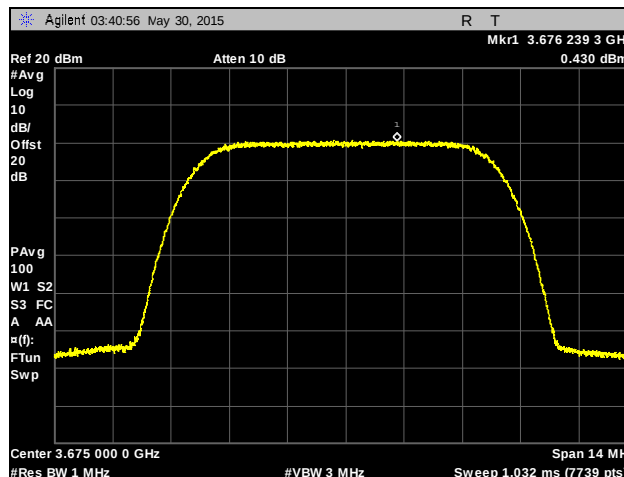
Plot 266. PSD, High Channel, 5 MHz, Chain 1, 26 dBi Antenna



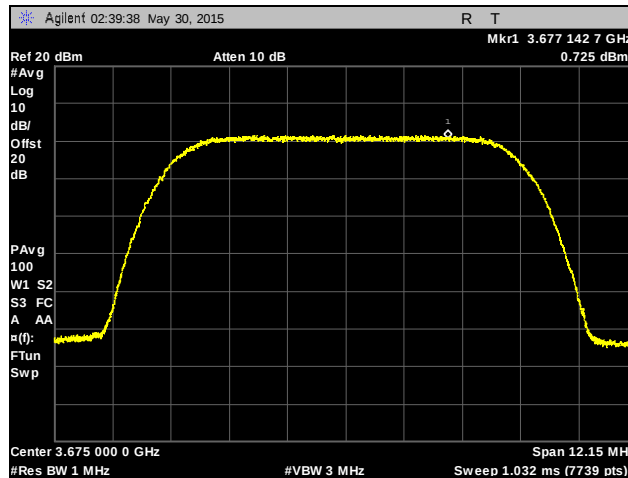
Plot 267. PSD, Low Channel, 7 MHz, Chain 0, 26 dBi Antenna



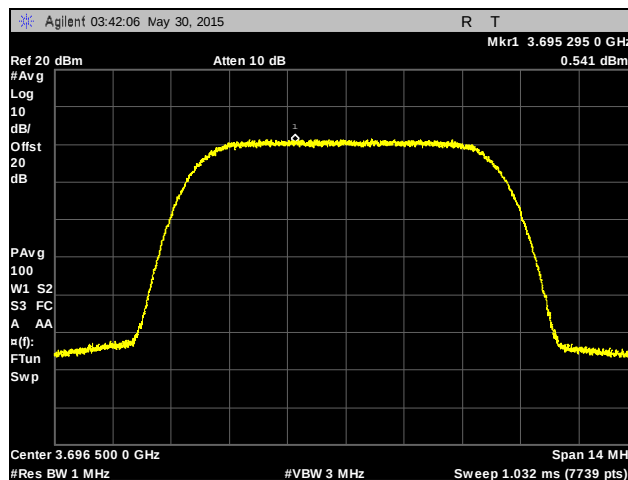
Plot 268. PSD, Low Channel, 7 MHz, Chain 1, 26 dBi Antenna



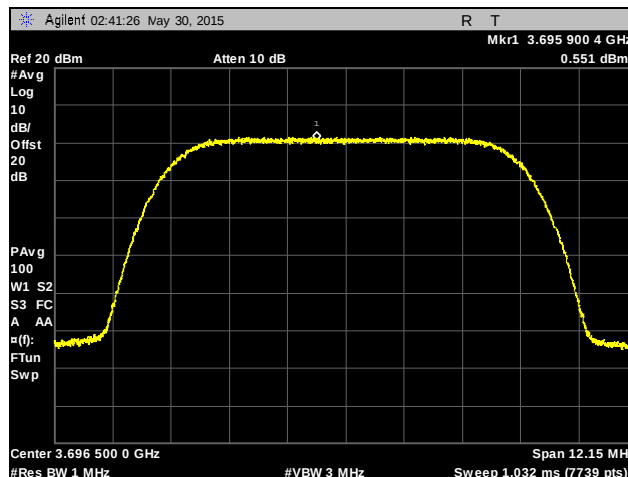
Plot 269. PSD, Mid Channel, 7 MHz, Chain 0, 26 dBi Antenna



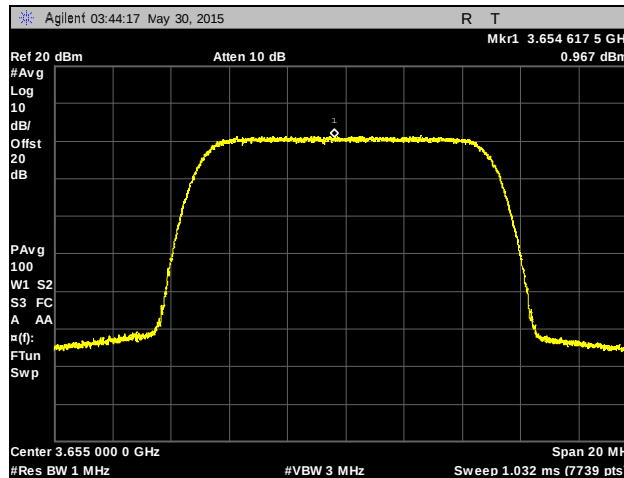
Plot 270. PSD, Mid Channel, 7 MHz, Chain 1, 26 dBi Antenna



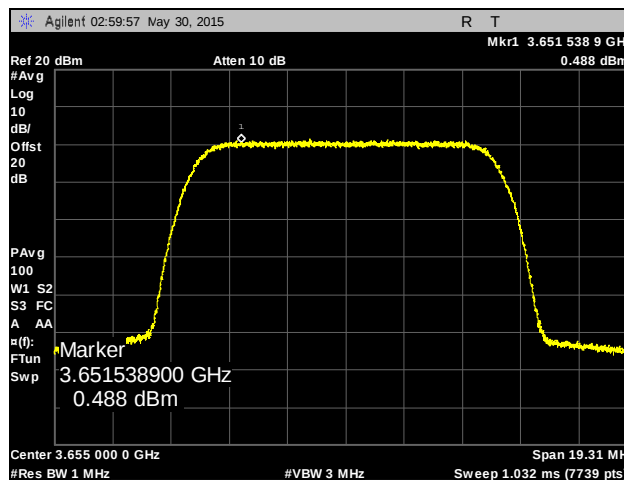
Plot 271. PSD, High Channel, 7 MHz, Chain 0, 26 dBi Antenna



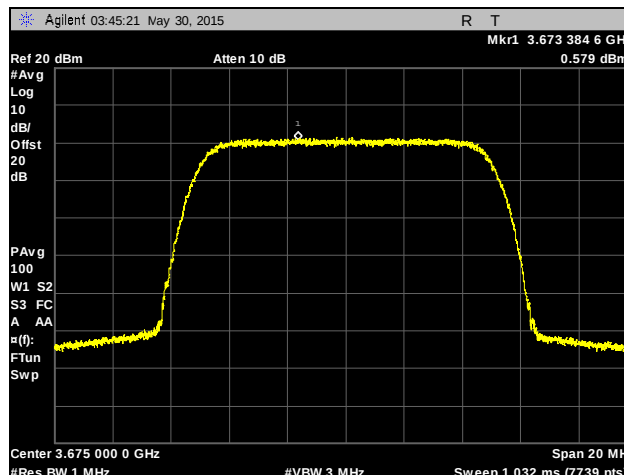
Plot 272. PSD, High Channel, 7 MHz, Chain 1, 26 dBi Antenna



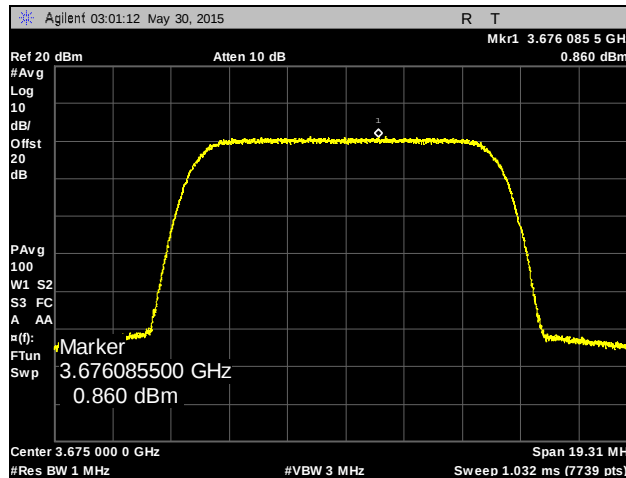
Plot 273. PSD, Low Channel, 10 MHz, Chain 0, 26 dBi Antenna



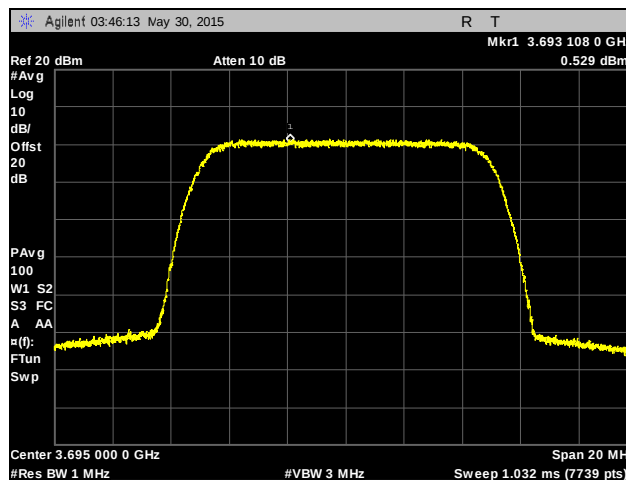
Plot 274. PSD, Low Channel, 10 MHz, Chain 1, 26 dBi Antenna



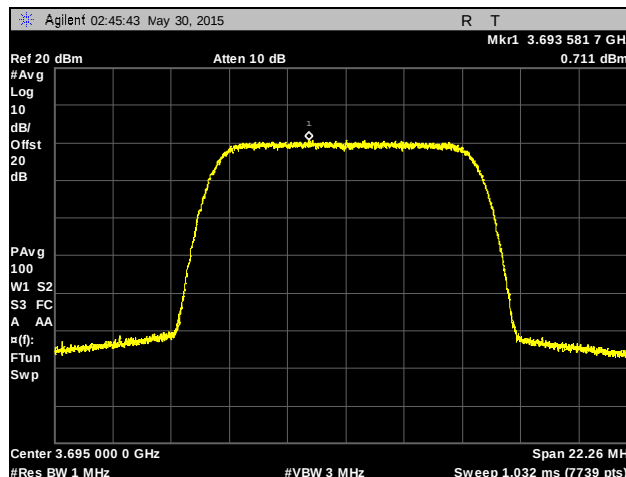
Plot 275. PSD, Mid Channel, 10 MHz, Chain 0, 26 dBi Antenna



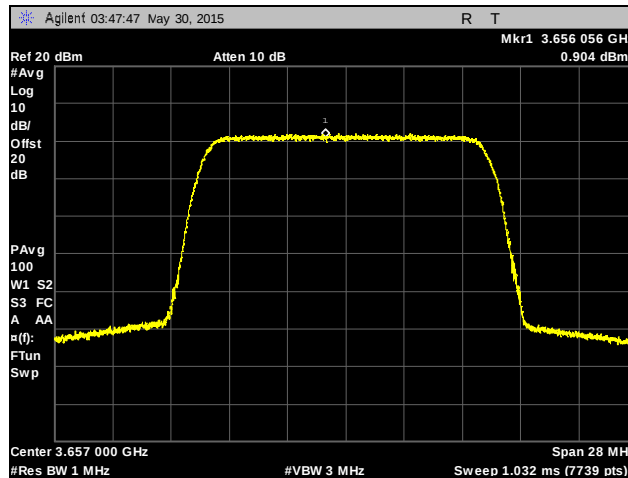
Plot 276. PSD, Mid Channel, 10 MHz, Chain 1, 26 dBi Antenna



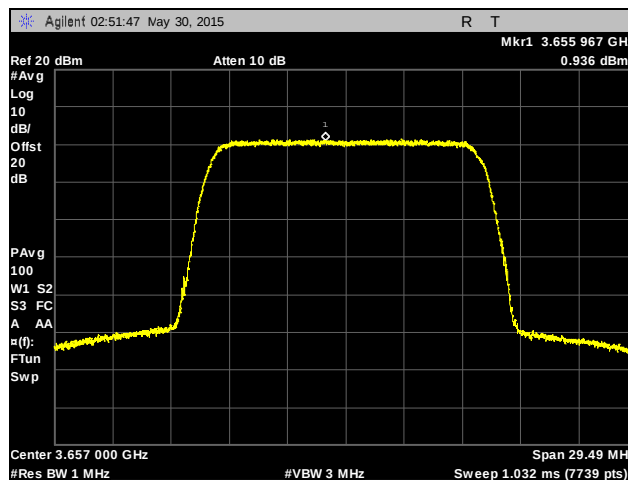
Plot 277. PSD, High Channel, 10 MHz, Chain 0, 26 dBi Antenna



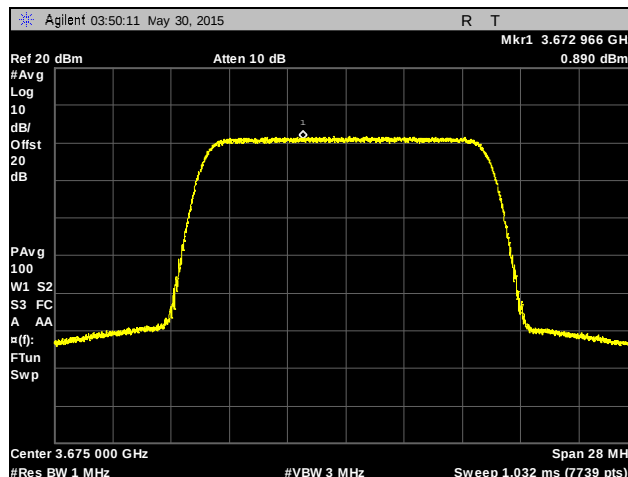
Plot 278. PSD, High Channel, 10 MHz, Chain 1, 26 dBi Antenna



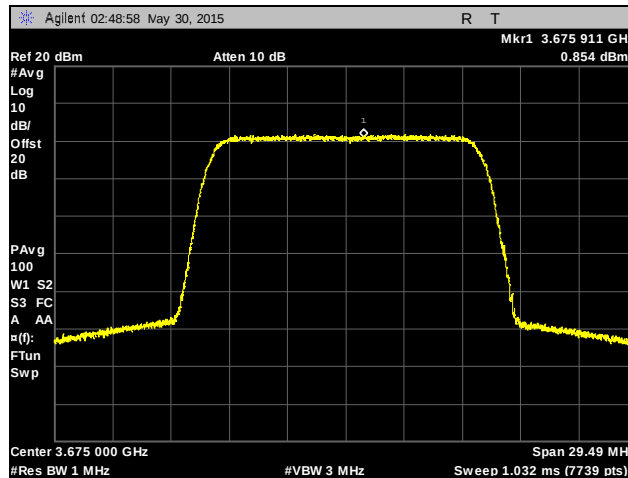
Plot 279. PSD, Low Channel, 14 MHz, Chain 0, 26 dBi Antenna



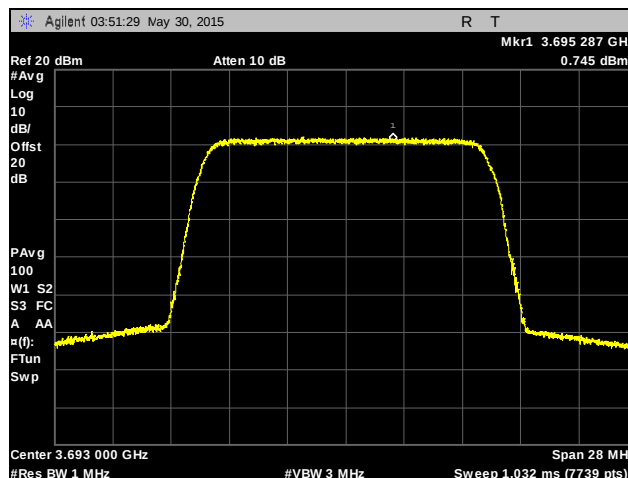
Plot 280. PSD, Low Channel, 14 MHz, Chain 1, 26 dBi Antenna



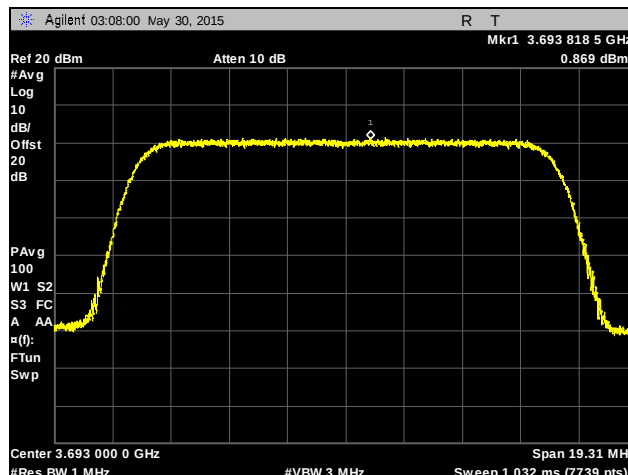
Plot 281. PSD, Mid Channel, 14 MHz, Chain 0, 26 dBi Antenna



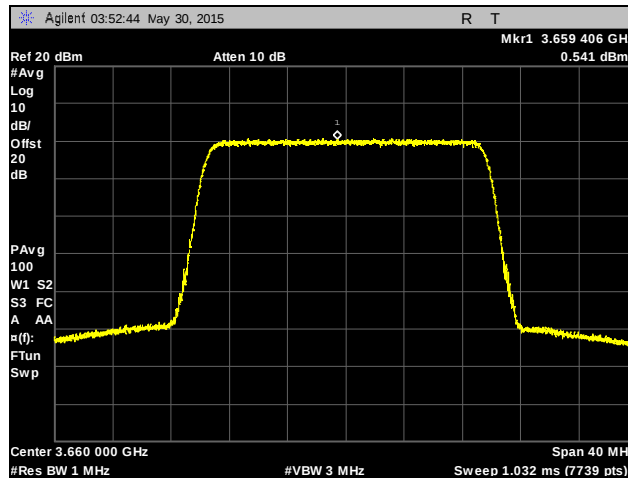
Plot 282. PSD, Mid Channel, 14 MHz, Chain 1, 26 dBi Antenna



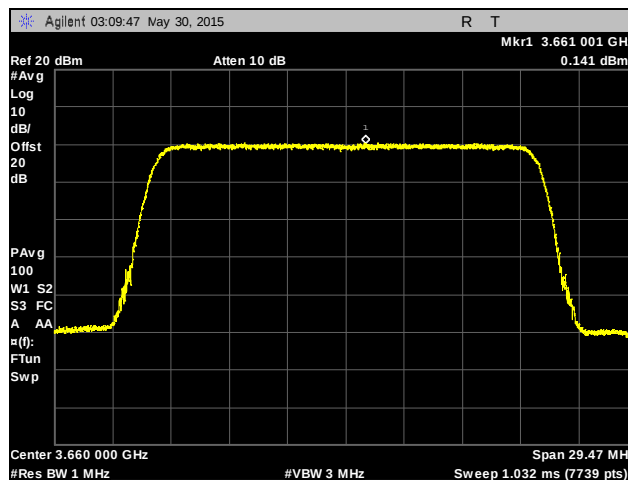
Plot 283. PSD, High Channel, 14 MHz, Chain 0, 26 dBi Antenna



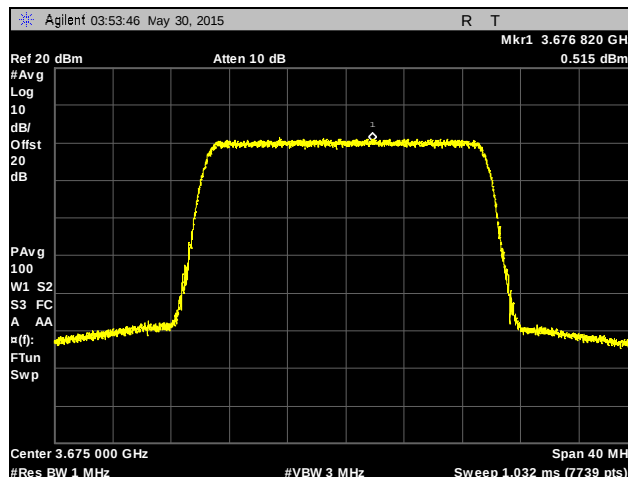
Plot 284. PSD, High Channel, 14 MHz, Chain 1, 26 dBi Antenna



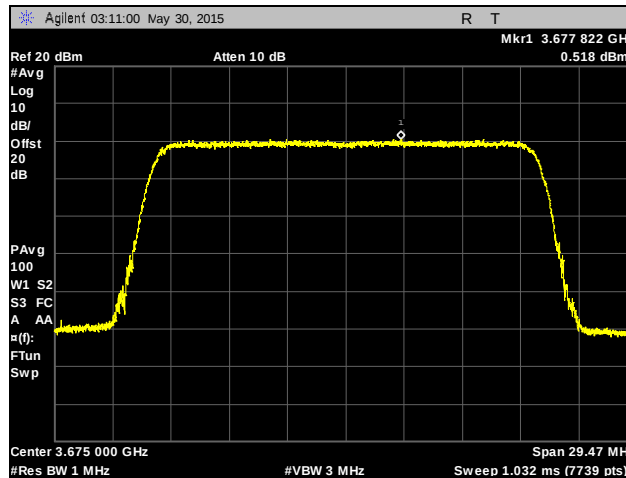
Plot 285. PSD, Low Channel, 20 MHz, Chain 0, 26 dBi Antenna



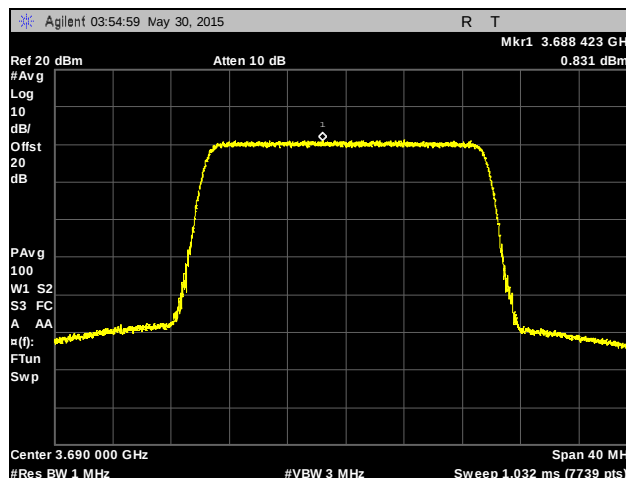
Plot 286. PSD, Low Channel, 20 MHz, Chain 1, 26 dBi Antenna



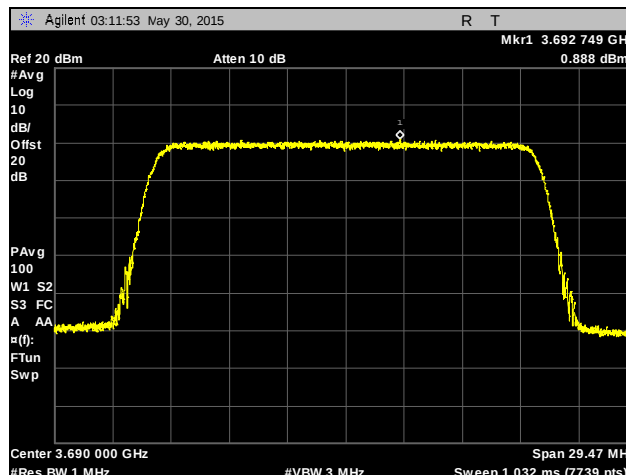
Plot 287. PSD, Mid Channel, 20 MHz, Chain 0, 26 dBi Antenna



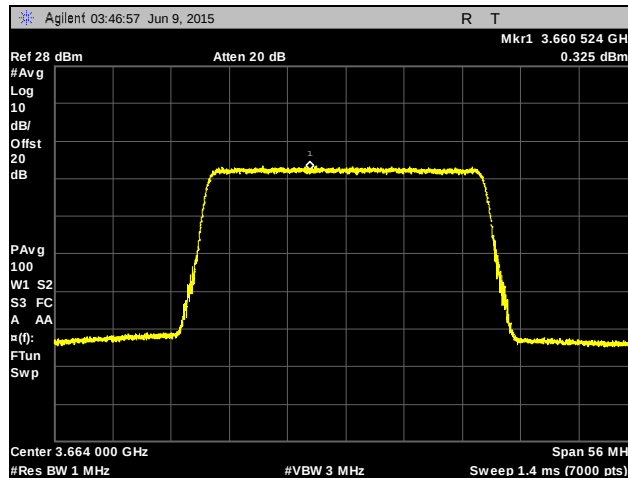
Plot 288. PSD, Mid Channel, 20 MHz, Chain 1, 26 dBi Antenna



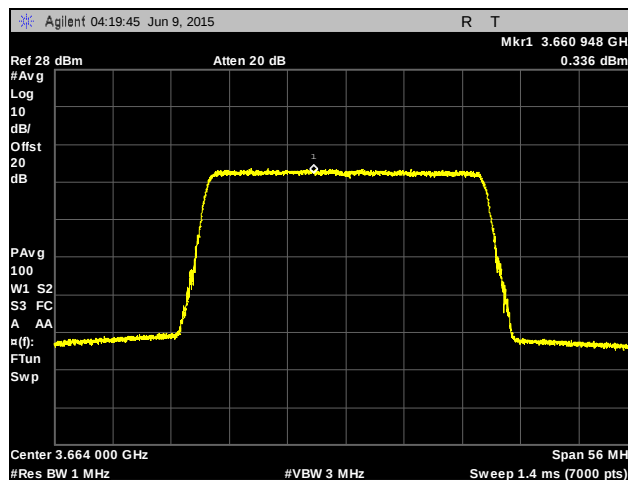
Plot 289. PSD, High Channel, 20 MHz, Chain 0, 26 dBi Antenna



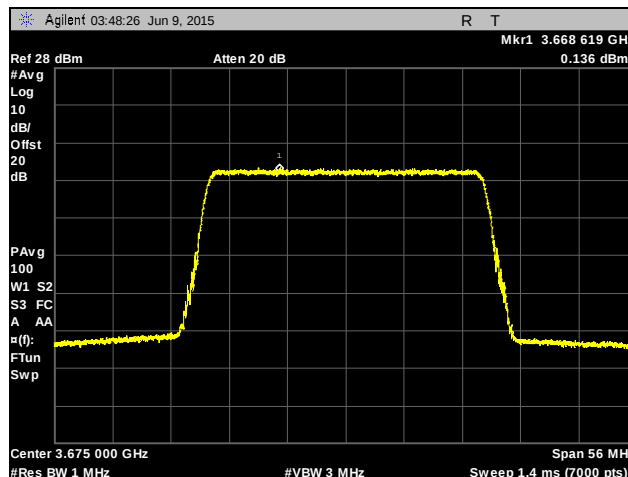
Plot 290. PSD, High Channel, 20 MHz, Chain 1, 26 dBi Antenna



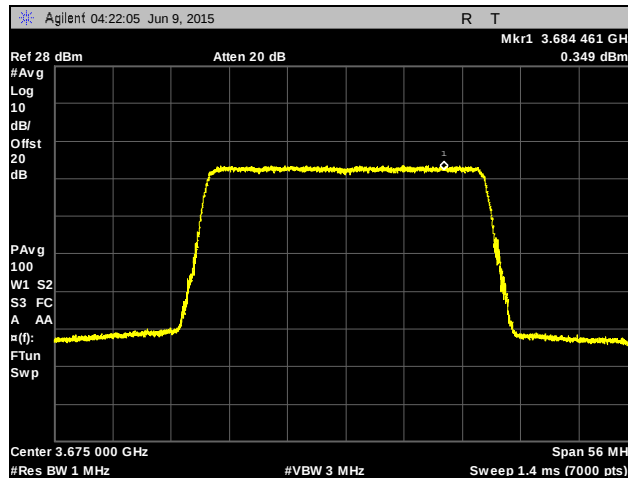
Plot 291. PSD, Low Channel, 28 MHz, Chain 0, 26 dBi Antenna



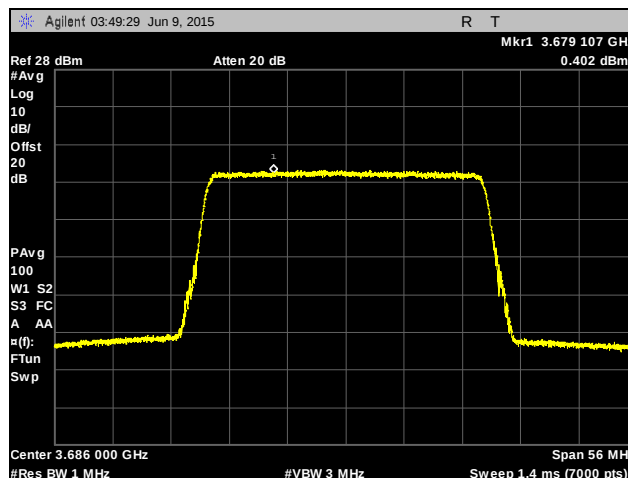
Plot 292. PSD, Low Channel, 28 MHz, Chain 1, 26 dBi Antenna



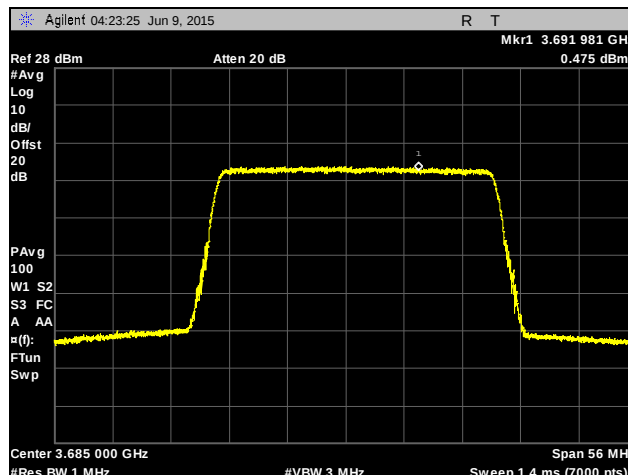
Plot 293. PSD, Mid Channel, 28 MHz, Chain 0, 26 dBi Antenna



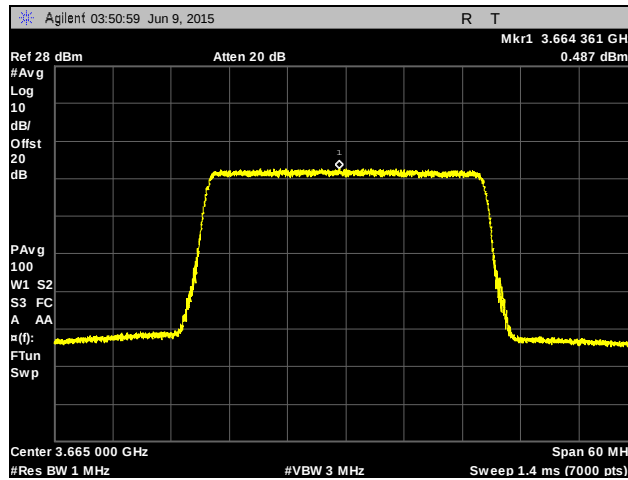
Plot 294. PSD, Mid Channel, 28 MHz, Chain 1, 26 dBi Antenna



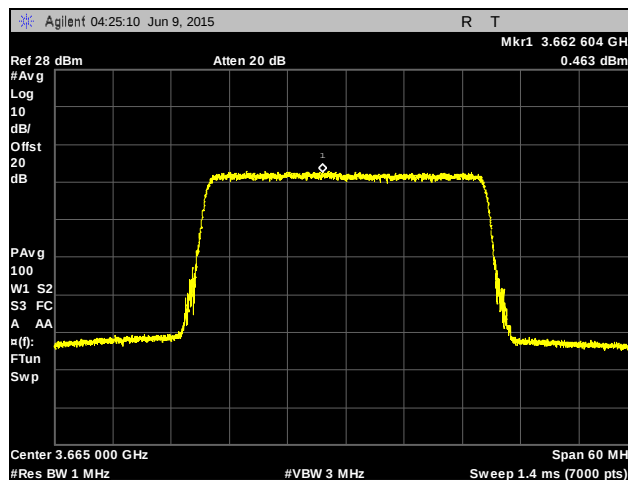
Plot 295. PSD, High Channel, 28 MHz, Chain 0, 26 dBi Antenna



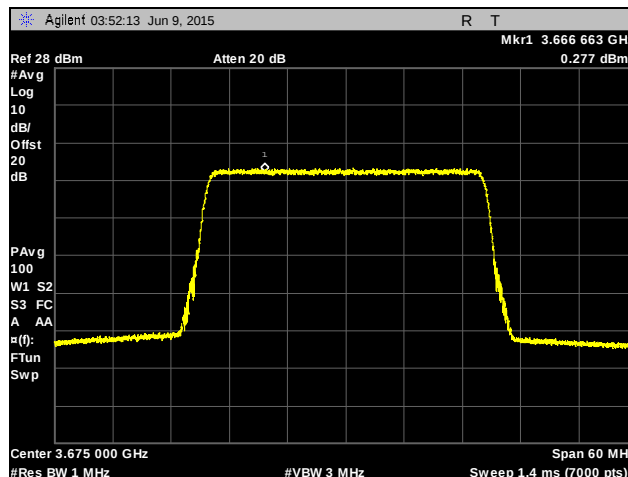
Plot 296. PSD, High Channel, 28 MHz, Chain 1, 26 dBi Antenna



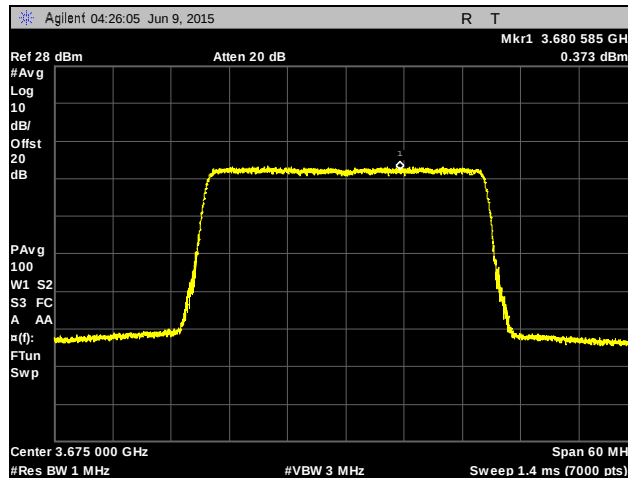
Plot 297. PSD, Low Channel, 30 MHz, Chain 0, 26 dBi Antenna



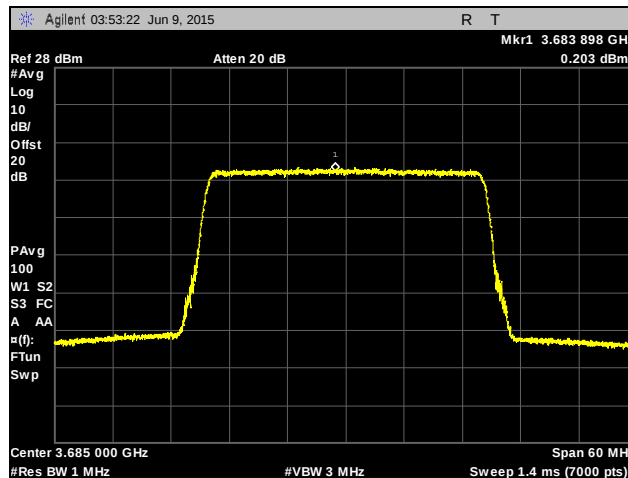
Plot 298. PSD, Low Channel, 30 MHz, Chain 1, 26 dBi Antenna



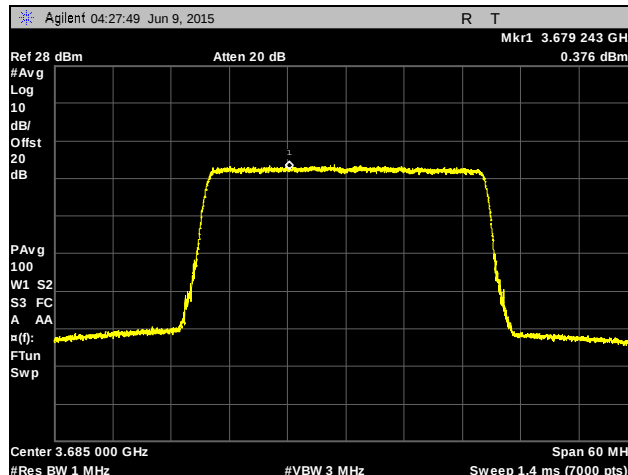
Plot 299. PSD, Mid Channel, 30 MHz, Chain 0, 26 dBi Antenna



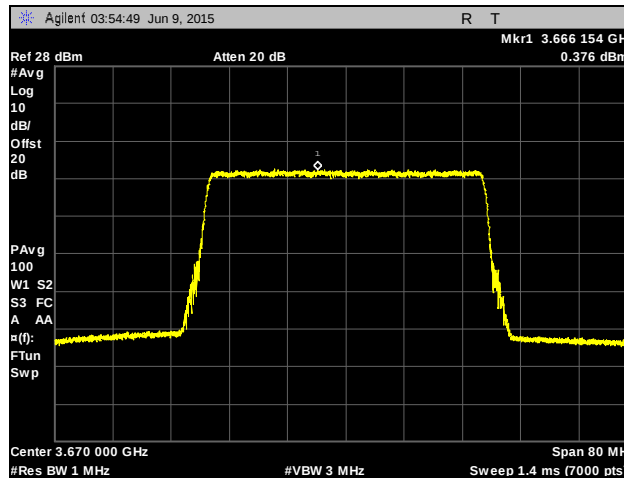
Plot 300. PSD, Mid Channel, 30 MHz, Chain 1, 26 dBi Antenna



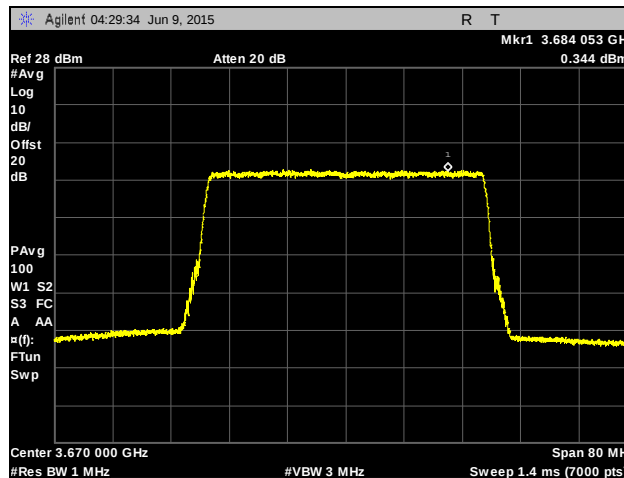
Plot 301. PSD, High Channel, 30 MHz, Chain 0, 26 dBi Antenna



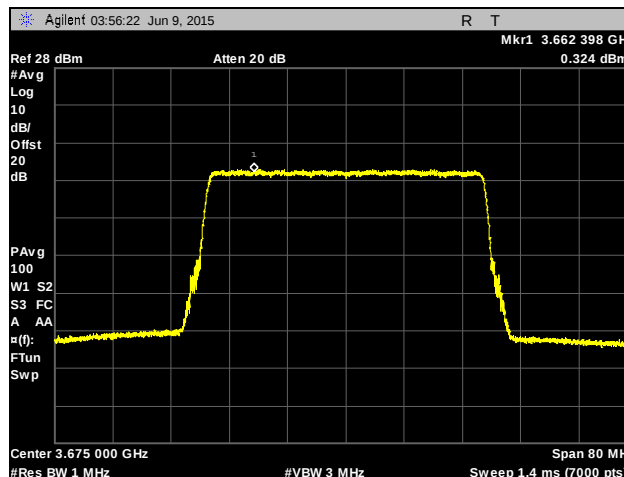
Plot 302. PSD, High Channel, 30 MHz, Chain 1, 26 dBi Antenna



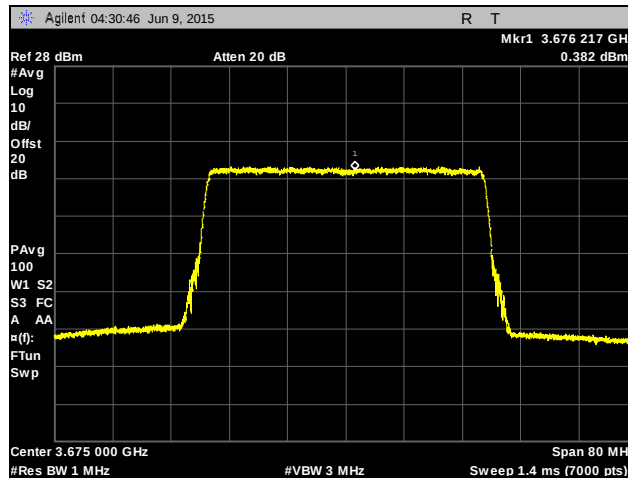
Plot 303. PSD, Low Channel, 40 MHz, Chain 0, 26 dBi Antenna



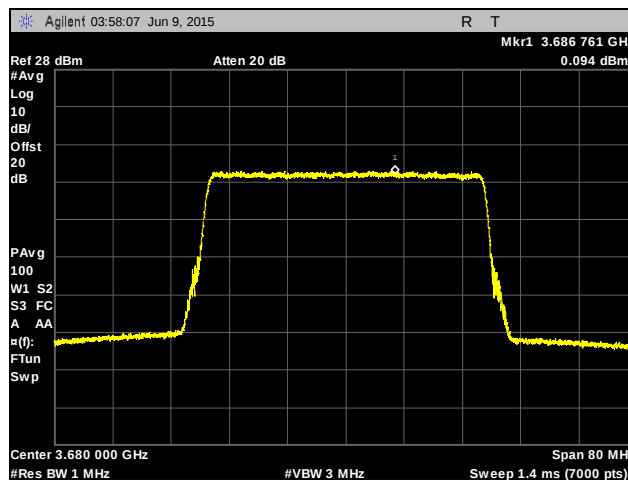
Plot 304. PSD, Low Channel, 40 MHz, Chain 1, 26 dBi Antenna



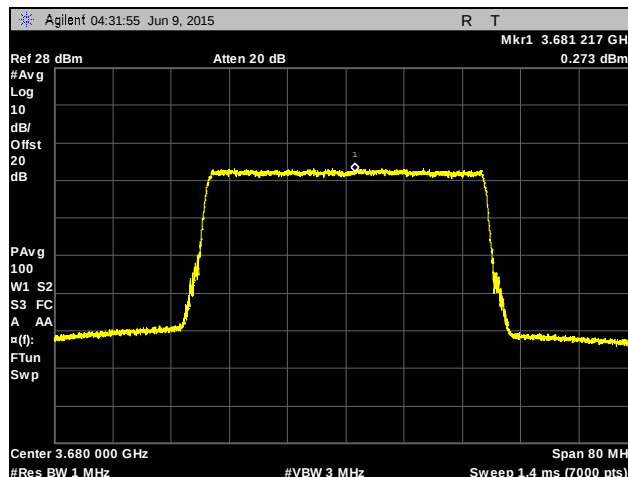
Plot 305. PSD, Mid Channel, 40 MHz, Chain 0, 26 dBi Antenna



Plot 306. PSD, Mid Channel, 40 MHz, Chain 1, 26 dBi Antenna

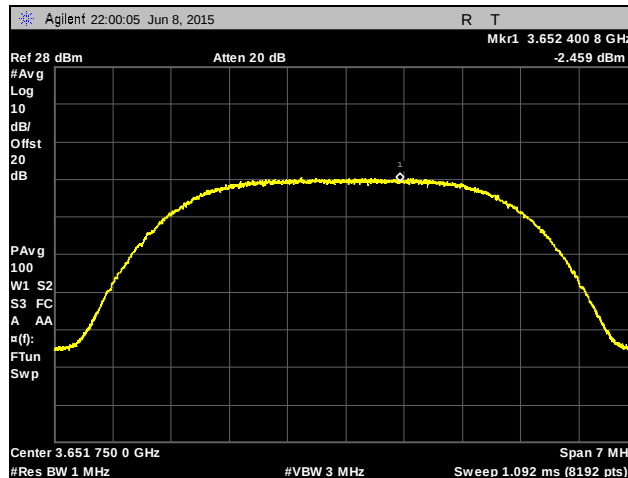


Plot 307. PSD, High Channel, 40 MHz, Chain 0, 26 dBi Antenna

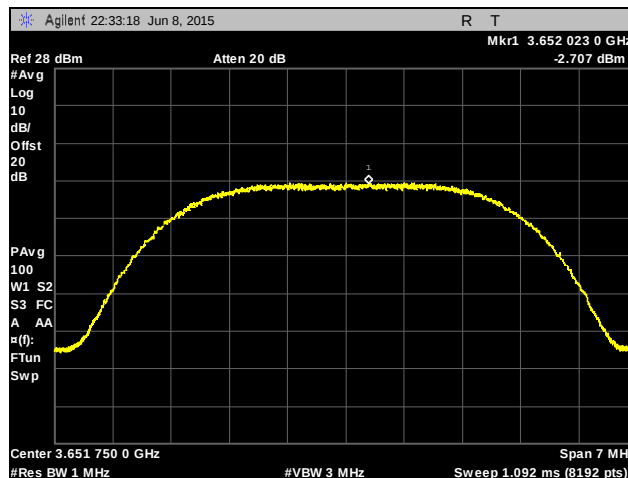


Plot 308. PSD, High Channel, 40 MHz, Chain 1, 26 dBi Antenna

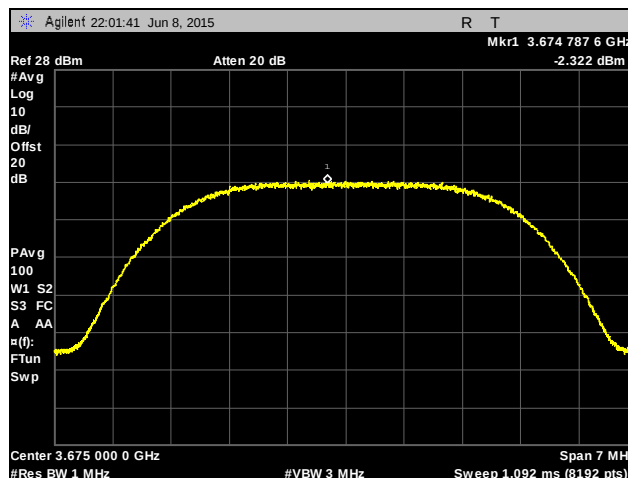
Peak Power Spectral Density, 29 dBi Antenna



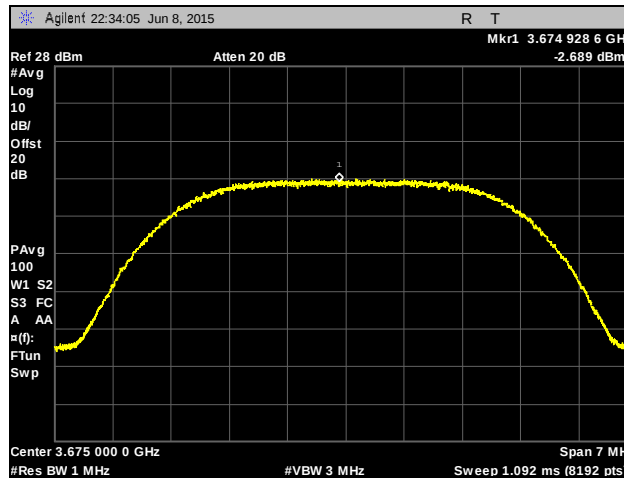
Plot 309. PSD, Low Channel, 3.5 MHz, Chain 0, 29 dBi Antenna



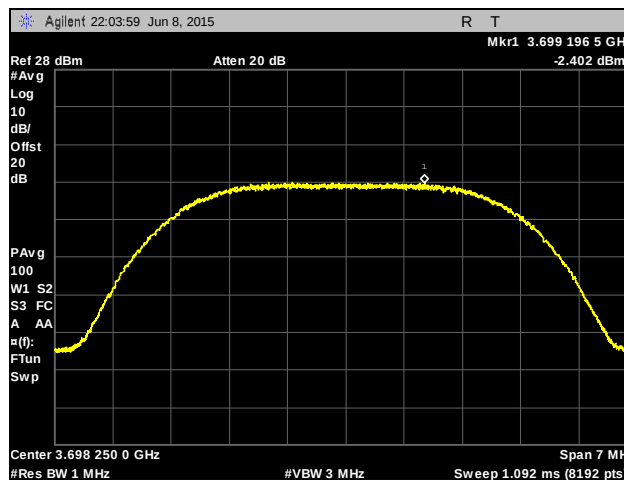
Plot 310. PSD, Low Channel, 3.5 MHz, Chain 1, 29 dBi Antenna



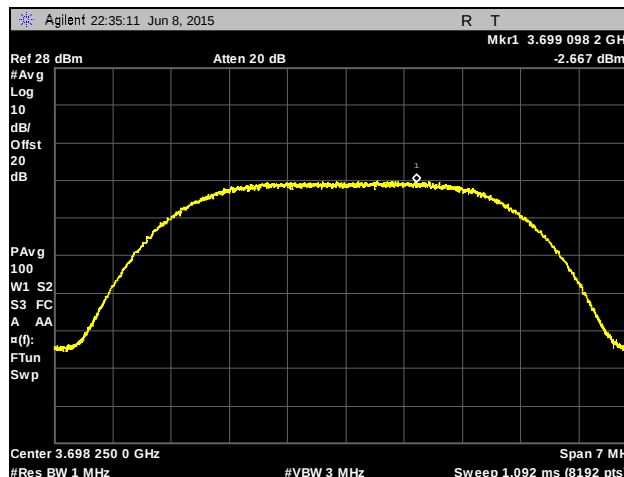
Plot 311. PSD, Mid Channel, 3.5 MHz, Chain 0, 29 dBi Antenna



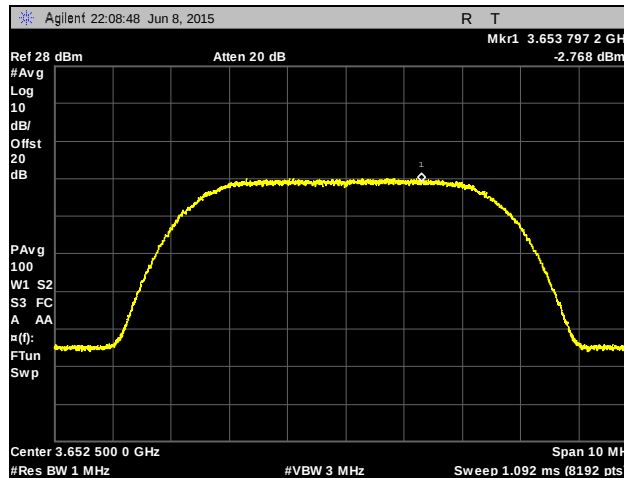
Plot 312. PSD, Mid Channel, 3.5 MHz, Chain 1, 29 dBi Antenna



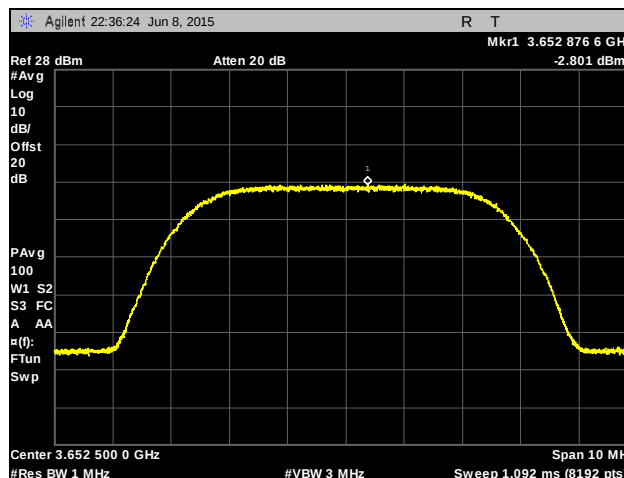
Plot 313. PSD, High Channel, 3.5 MHz, Chain 0, 29 dBi Antenna



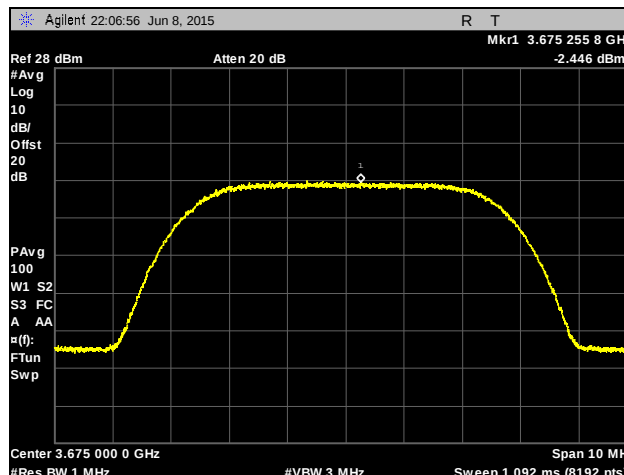
Plot 314. PSD, High Channel, 3.5 MHz, Chain 1, 29 dBi Antenna



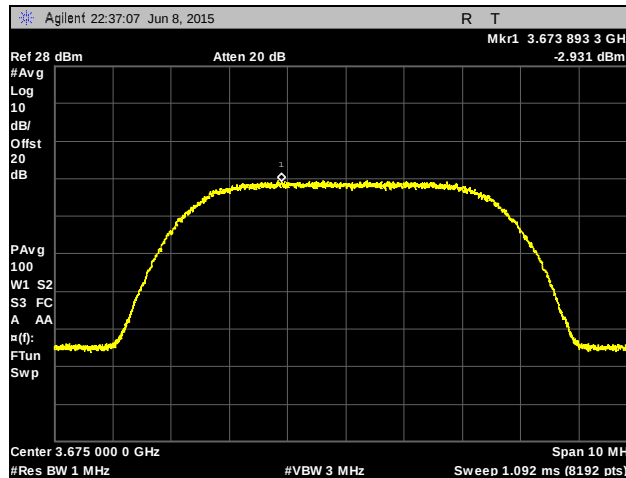
Plot 315. PSD, Low Channel, 5 MHz, Chain 0, 29 dBi Antenna



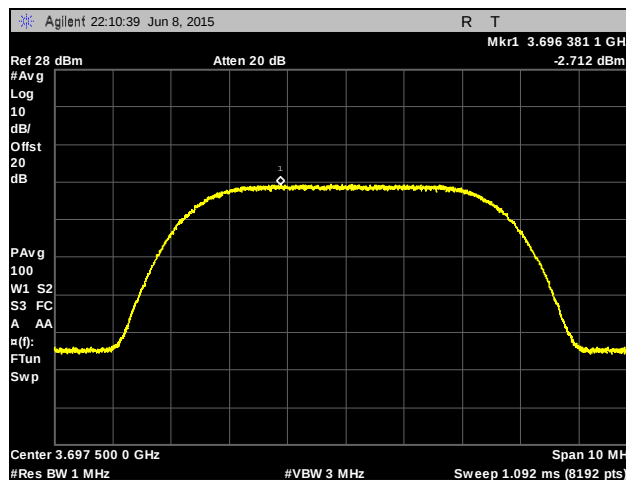
Plot 316. PSD, Low Channel, 5 MHz, Chain 1, 29 dBi Antenna



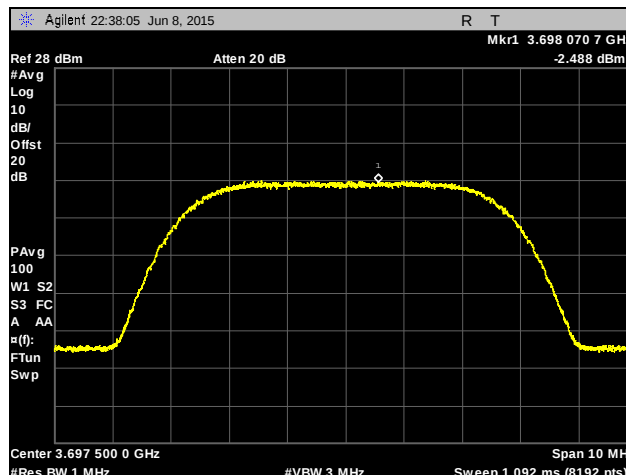
Plot 317. PSD, Mid Channel, 5 MHz, Chain 0, 29 dBi Antenna



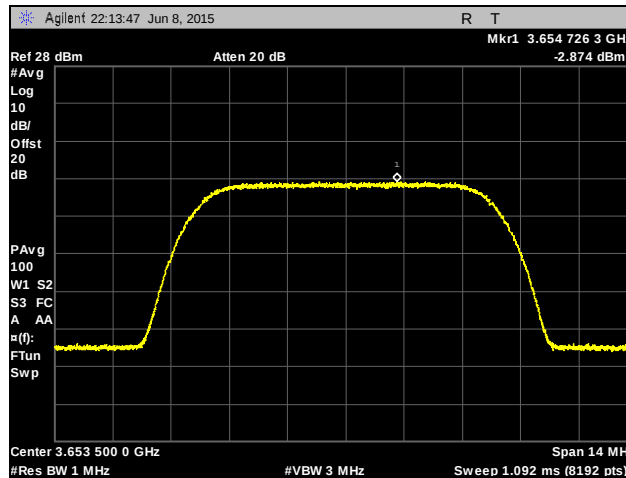
Plot 318. PSD, Mid Channel, 5 MHz, Chain 1, 29 dBi Antenna



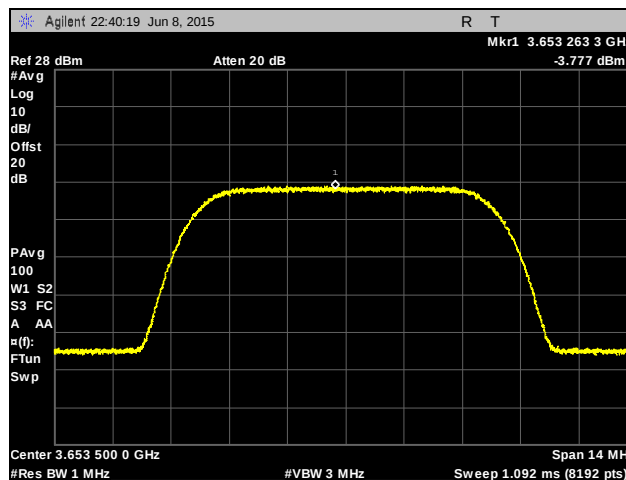
Plot 319. PSD, High Channel, 5 MHz, Chain 0, 29 dBi Antenna



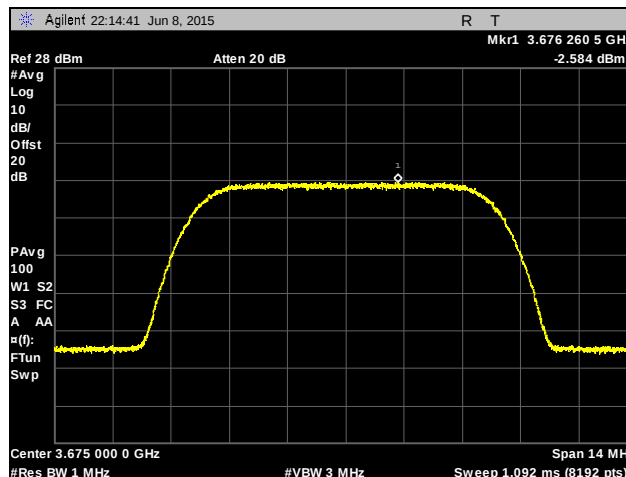
Plot 320. PSD, High Channel, 5 MHz, Chain 1, 29 dBi Antenna



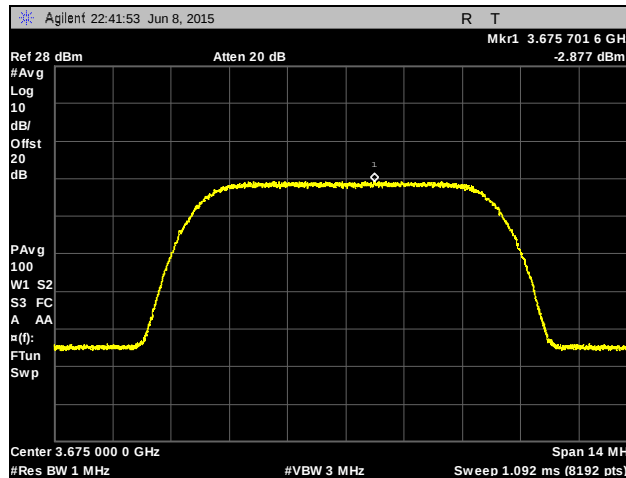
Plot 321. PSD, Low Channel, 7 MHz, Chain 0, 29 dBi Antenna



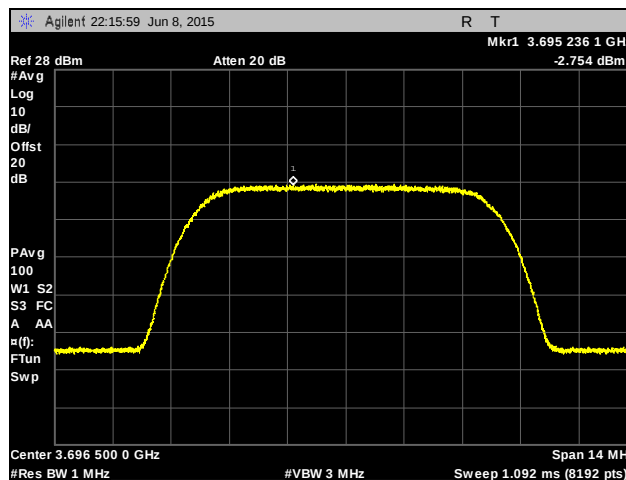
Plot 322. PSD, Low Channel, 7 MHz, Chain 1, 29 dBi Antenna



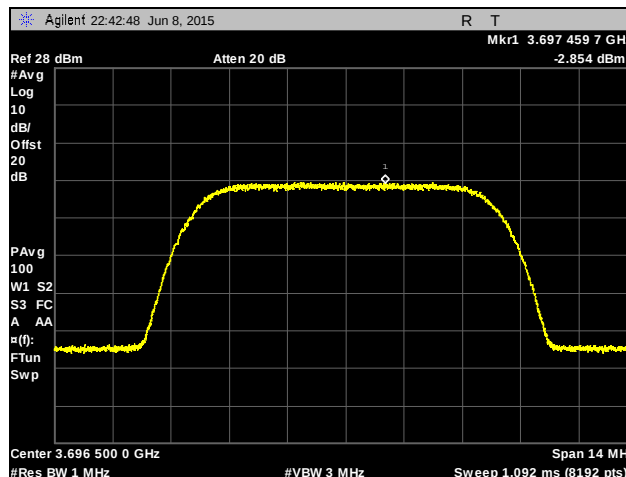
Plot 323. PSD, Mid Channel, 7 MHz, Chain 0, 29 dBi Antenna



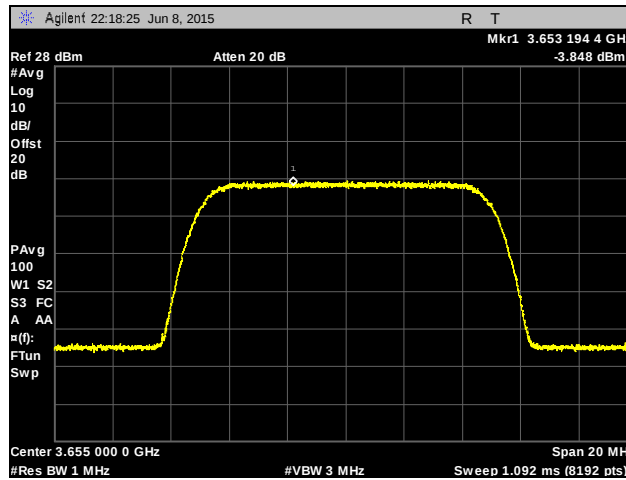
Plot 324. PSD, Mid Channel, 7 MHz, Chain 1, 29 dBi Antenna



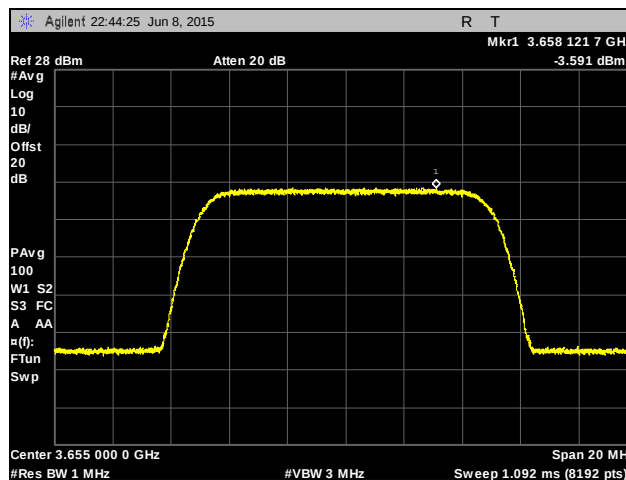
Plot 325. PSD, High Channel, 7 MHz, Chain 0, 29 dBi Antenna



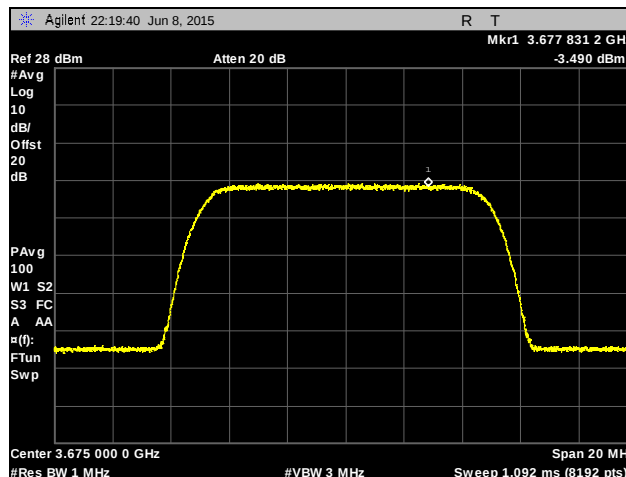
Plot 326. PSD, High Channel, 7 MHz, Chain 1, 29 dBi Antenna



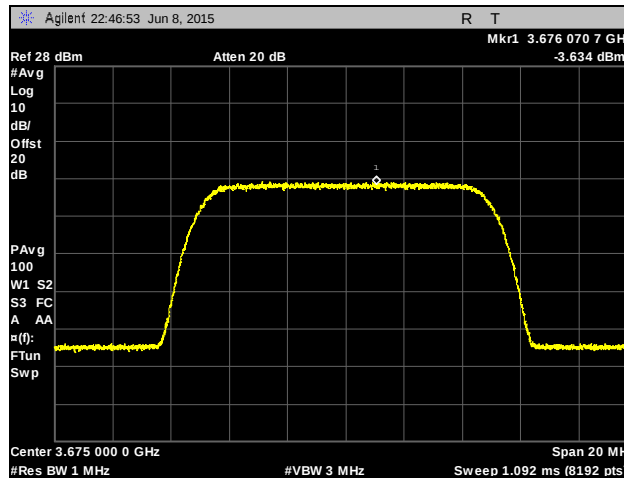
Plot 327. PSD, Low Channel, 10 MHz, Chain 0, 29 dBi Antenna



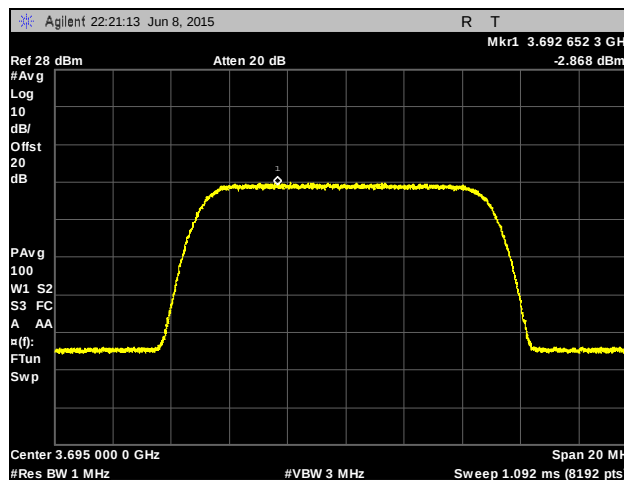
Plot 328. PSD, Low Channel, 10 MHz, Chain 1, 29 dBi Antenna



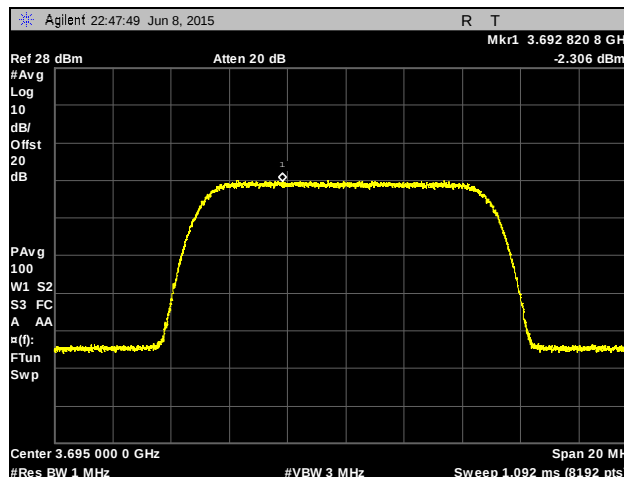
Plot 329. PSD, Mid Channel, 10 MHz, Chain 0, 29 dBi Antenna



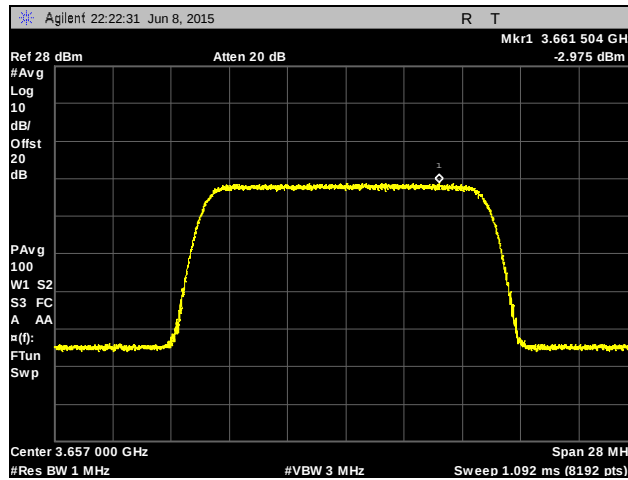
Plot 330. PSD, Mid Channel, 10 MHz, Chain 1, 29 dBi Antenna



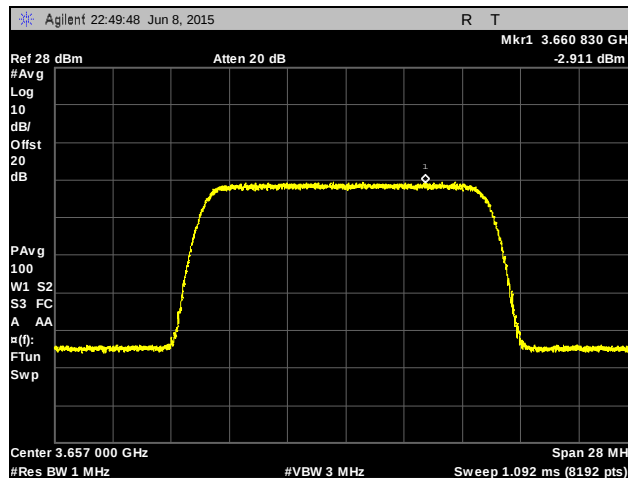
Plot 331. PSD, High Channel, 10 MHz, Chain 0, 29 dBi Antenna



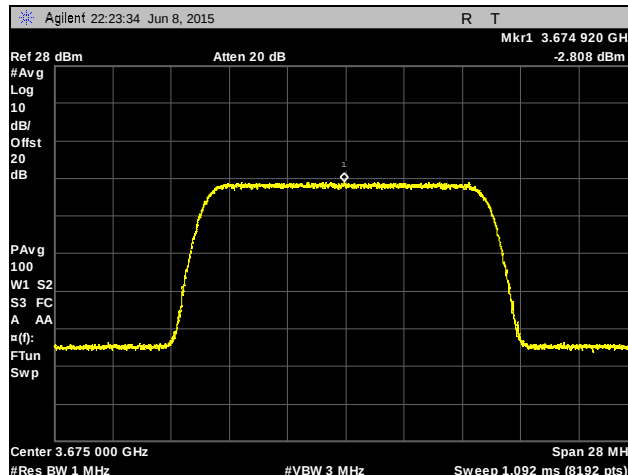
Plot 332. PSD, High Channel, 10 MHz, Chain 1, 29 dBi Antenna



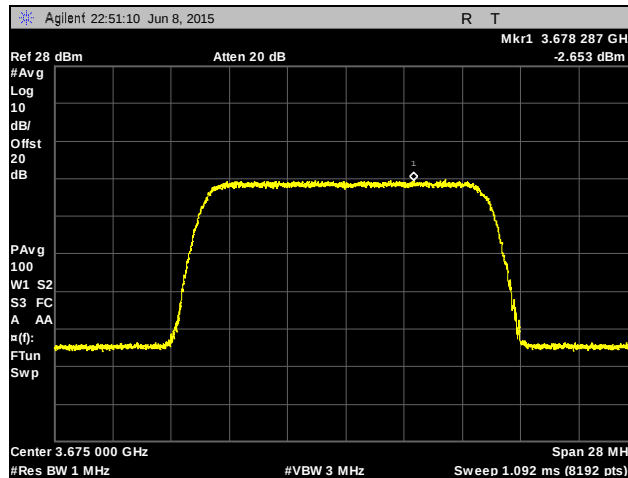
Plot 333. PSD, Low Channel, 14 MHz, Chain 0, 29 dBi Antenna



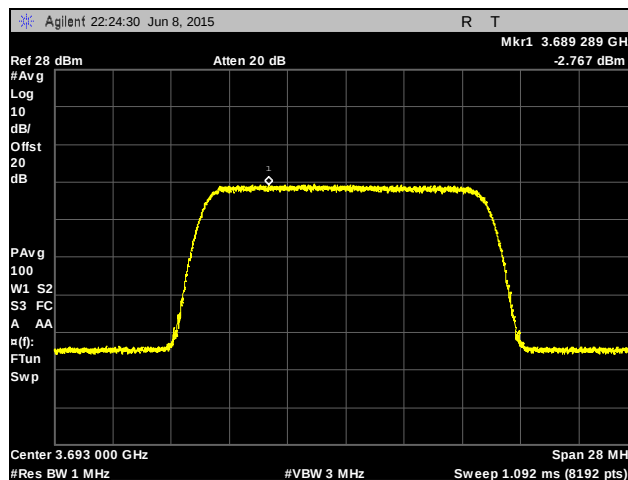
Plot 334. PSD, Low Channel, 14 MHz, Chain 1, 29 dBi Antenna



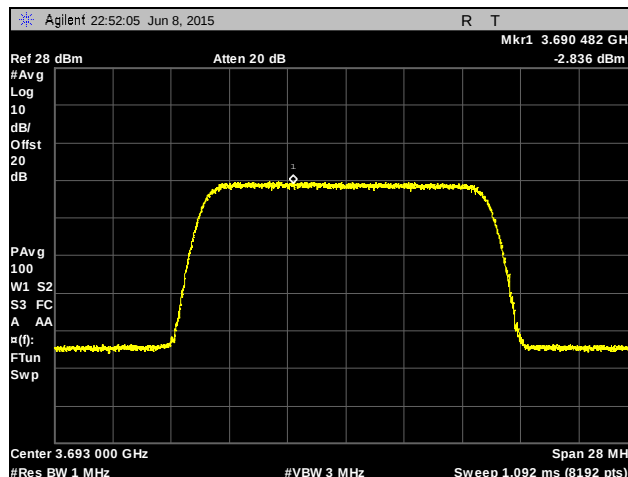
Plot 335. PSD, Mid Channel, 14 MHz, Chain 0, 29 dBi Antenna



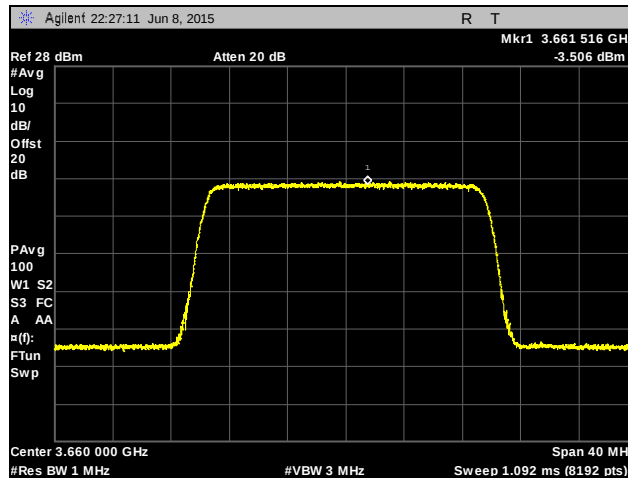
Plot 336. PSD, Mid Channel, 14 MHz, Chain 1, 29 dBi Antenna



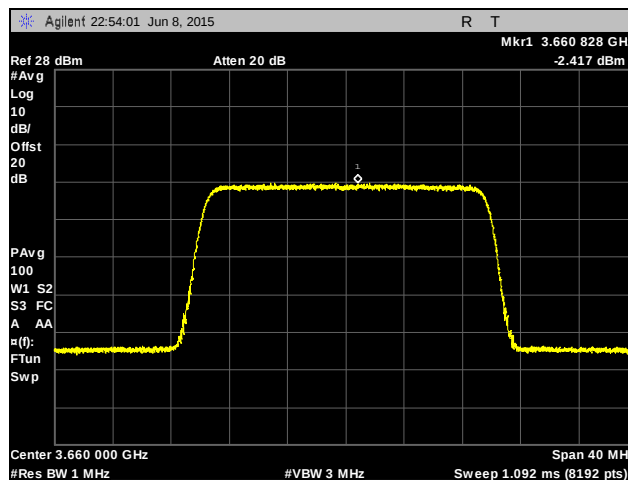
Plot 337. PSD, High Channel, 14 MHz, Chain 0, 29 dBi Antenna



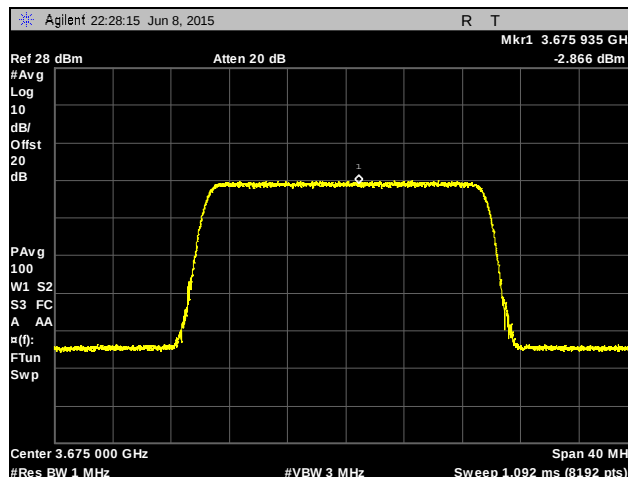
Plot 338. PSD, High Channel, 14 MHz, Chain 1, 29 dBi Antenna



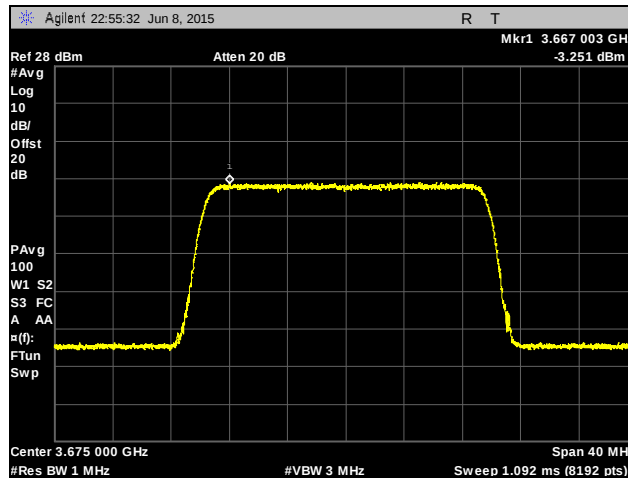
Plot 339. PSD, Low Channel, 20 MHz, Chain 0, 29 dBi Antenna



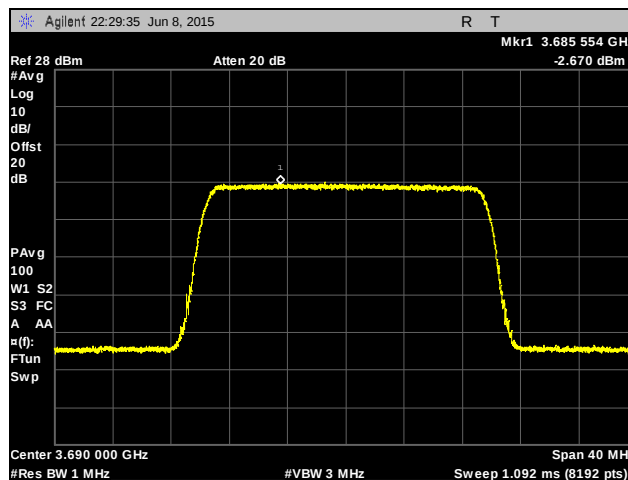
Plot 340. PSD, Low Channel, 20 MHz, Chain 1, 29 dBi Antenna



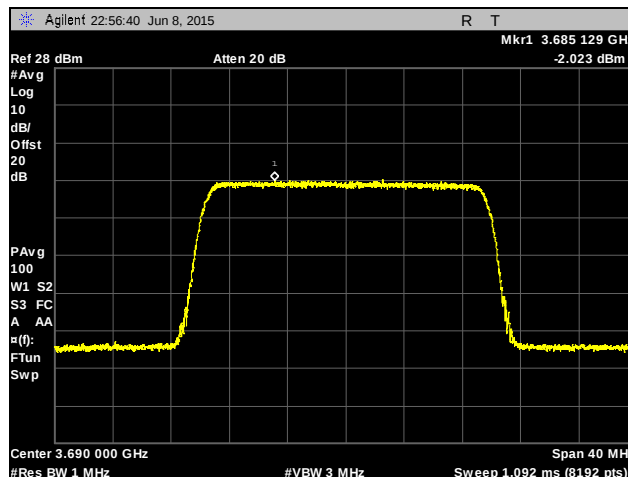
Plot 341. PSD, Mid Channel, 20 MHz, Chain 0, 29 dBi Antenna



Plot 342. PSD, Mid Channel, 20 MHz, Chain 1, 29 dBi Antenna



Plot 343. PSD, High Channel, 20 MHz, Chain 0, 29 dBi Antenna



Plot 344. PSD, High Channel, 20 MHz, Chain 1, 29 dBi Antenna