

OUTPUT POWER - 4 PORT MODE



element

XMIT 2020.03.25.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Block - DC	Fairview Microwave	SD3379	AMM	21-Sep-20	21-Sep-21
Generator - Signal	Agilent	N5173B	TIW	17-Jul-20	17-Jul-23

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method in section 5.2.4.4 of ANSI C63.26 was used to make the measurement. This method uses trace averaging across ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

RF conducted emissions testing was performed on one port. The FRIG antenna ports are essentially electrically identical (RF power variation between antenna ports is small) and port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4. The total average transmit power for four port MIMO operation was determined per ANSI C63.26-2015 paragraph 6.4.3.1.

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TxTx 2020.10.20.0 BETA XM 2020.03.25.0

EUT: FRIG (C2PC FCC/ISED Approval for 5G)	Work Order: NOKI0025
Serial Number: RY142309120	Date: 3-Dec-20
Customer: Nokia of America Corporation	Temperature: 23.4 °C
Attendees: Mitchell Hill, John Rattanavong	Humidity: 28.5% RH
Project: None	Barometric Pres.: 1028 mbar
Tested by: Brandon Hobbs	Power: 54 VDC
	Job Site: TX05

TEST SPECIFICATIONS		Test Method
FCC 27:2020		ANSI C63.26:2015
RSS-139:2015		RSS-139:2015

COMMENTS
 All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. AWS Band 1 carriers are enabled at maximum power (30 watts/carrier). The output power was measured for a single carrier over the carrier channel bandwidth on port 1. The total output power for multiport (2x2 MIMO & 4x4 MIMO) operation was determined based upon ANSI 63.26 clauses 6.4.3.1 and 6.4.3.2.4 (10 log Nout). The total output power for two port operation is single port power + 3dB [i.e. 10log(2)]. The total output power for four port operation is single port power + 6dB [i.e. 10log(4)].

DEVIATIONS FROM TEST STANDARD
 None

Configuration #	2	Signature
Initial Value		
	Duty Cycle	
		Single Port dBm/Carrier BW
		Two Port (2x2 MIMO) dBm/Carrier BW
		Four Port (4x4 MIMO) dBm/Carrier BW

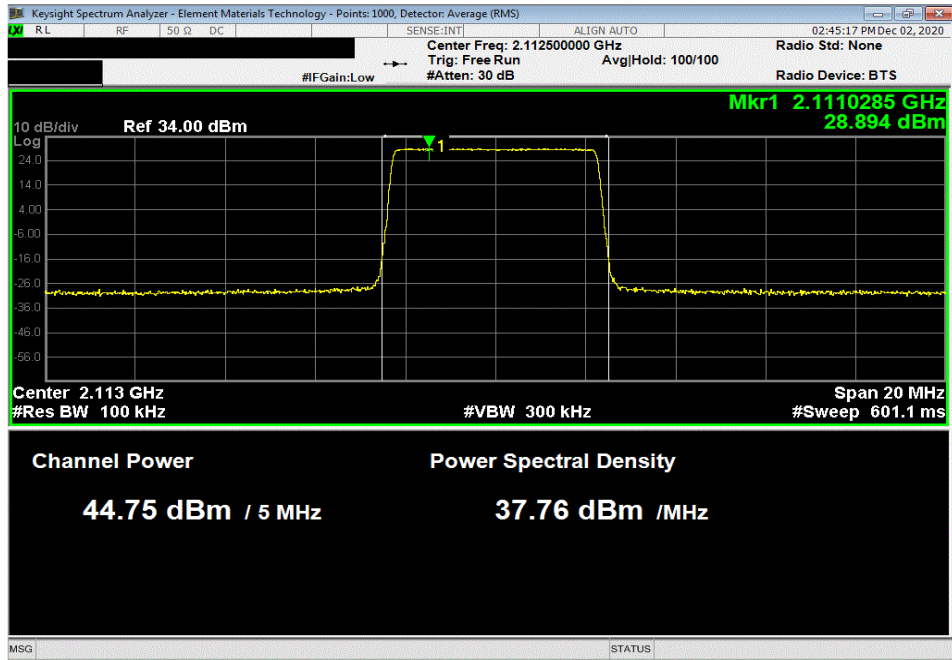
30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz						
5 MHz Bandwidth						
QPSK Modulation						
	Low Channel 2112.5 MHz	44.749	0	44.75	47.75	50.75
	Mid Channel 2132.5 MHz	44.714	0	44.71	47.71	50.71
	High Channel 2152.5 MHz	44.696	0	44.70	47.70	50.70
16-QAM Modulation						
	Low Channel 2112.5 MHz	44.597	0	44.60	47.60	50.60
	Mid Channel 2132.5 MHz	44.560	0	44.56	47.56	50.56
	High Channel 2152.5 MHz	44.666	0	44.67	47.67	50.67
64-QAM Modulation						
	Low Channel 2112.5 MHz	44.710	0	44.71	47.71	50.71
	Mid Channel 2132.5 MHz	44.760	0	44.76	47.76	50.76
	High Channel 2152.5 MHz	44.746	0	44.75	47.75	50.75
256-QAM Modulation						
	Low Channel 2112.5 MHz	44.644	0	44.64	47.64	50.64
	Mid Channel 2132.5 MHz	44.701	0	44.70	47.70	50.70
	High Channel 2152.5 MHz	44.593	0	44.59	47.59	50.59
10 MHz Bandwidth						
QPSK Modulation						
	Low Channel 2115 MHz	44.636	0	44.64	47.64	50.64
	Mid Channel 2132.5 MHz	44.834	0	44.83	47.83	50.83
	High Channel 2150 MHz	44.772	0	44.77	47.77	50.77
16-QAM Modulation						
	Low Channel 2115 MHz	44.693	0	44.69	47.69	50.69
	Mid Channel 2132.5 MHz	44.853	0	44.85	47.85	50.85
	High Channel 2150 MHz	44.705	0	44.71	47.71	50.71
64-QAM Modulation						
	Low Channel 2115 MHz	44.787	0	44.79	47.79	50.79
	Mid Channel 2132.5 MHz	45.035	0	45.04	48.04	51.04
	High Channel 2150 MHz	44.834	0	44.83	47.83	50.83
256-QAM Modulation						
	Low Channel 2115 MHz	44.672	0	44.67	47.67	50.67
	Mid Channel 2132.5 MHz	44.880	0	44.88	47.88	50.88
	High Channel 2150 MHz	44.613	0	44.61	47.61	50.61
15 MHz Bandwidth						
QPSK Modulation						
	Low Channel 2117.5 MHz	44.768	0	44.77	47.77	50.77
	Mid Channel 2132.5 MHz	44.971	0	44.97	47.97	50.97
	High Channel 2147.5 MHz	44.841	0	44.84	47.84	50.84
16-QAM Modulation						
	Low Channel 2117.5 MHz	44.690	0	44.69	47.69	50.69
	Mid Channel 2132.5 MHz	44.872	0	44.87	47.87	50.87
	High Channel 2147.5 MHz	44.752	0	44.75	47.75	50.75
64-QAM Modulation						
	Low Channel 2117.5 MHz	44.838	0	44.84	47.84	50.84
	Mid Channel 2132.5 MHz	44.892	0	44.89	47.89	50.89
	High Channel 2147.5 MHz	44.858	0	44.86	47.86	50.86
256-QAM Modulation						
	Low Channel 2117.5 MHz	44.776	0	44.78	47.78	50.78
	Mid Channel 2132.5 MHz	44.898	0	44.90	47.90	50.90
	High Channel 2147.5 MHz	44.864	0	44.86	47.86	50.86
20 MHz Bandwidth						
QPSK Modulation						
	Low Channel 2120 MHz	44.795	0	44.80	47.80	50.80
	Mid Channel 2132.5 MHz	44.999	0	45.00	48.00	51.00
	High Channel 2145 MHz	44.879	0	44.88	47.88	50.88
16-QAM Modulation						
	Low Channel 2120 MHz	44.755	0	44.76	47.76	50.76
	Mid Channel 2132.5 MHz	44.969	0	44.97	47.97	50.97
	High Channel 2145 MHz	44.883	0	44.88	47.88	50.88
64-QAM Modulation						
	Low Channel 2120 MHz	44.851	0	44.85	47.85	50.85
	Mid Channel 2132.5 MHz	44.987	0	44.99	47.99	50.99
	High Channel 2145 MHz	44.961	0	44.96	47.96	50.96
256-QAM Modulation						
	Low Channel 2120 MHz	44.818	0	44.82	47.82	50.82
	Mid Channel 2132.5 MHz	44.996	0	45.00	48.00	51.00
	High Channel 2145 MHz	44.979	0	44.98	47.98	50.98

OUTPUT POWER - 4 PORT MODE

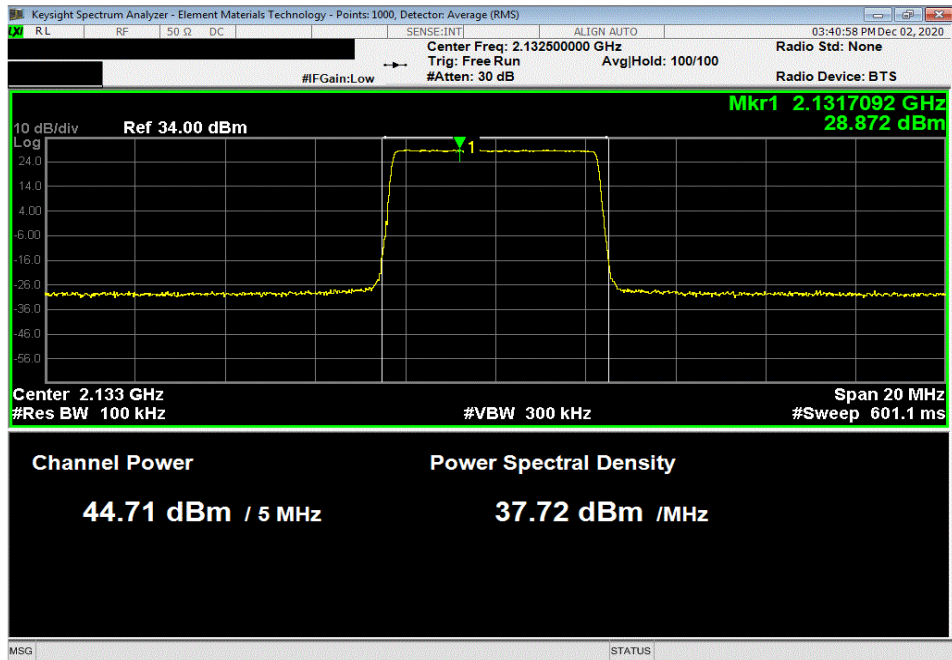


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 2112.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.749	0	44.7	47.7	50.7		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.714	0	44.7	47.7	50.7		

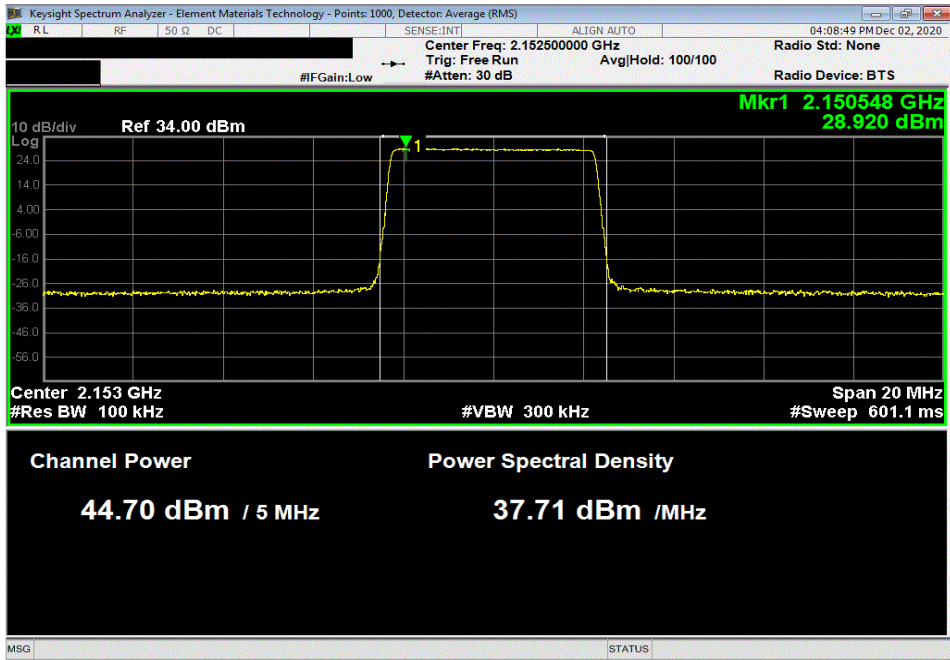


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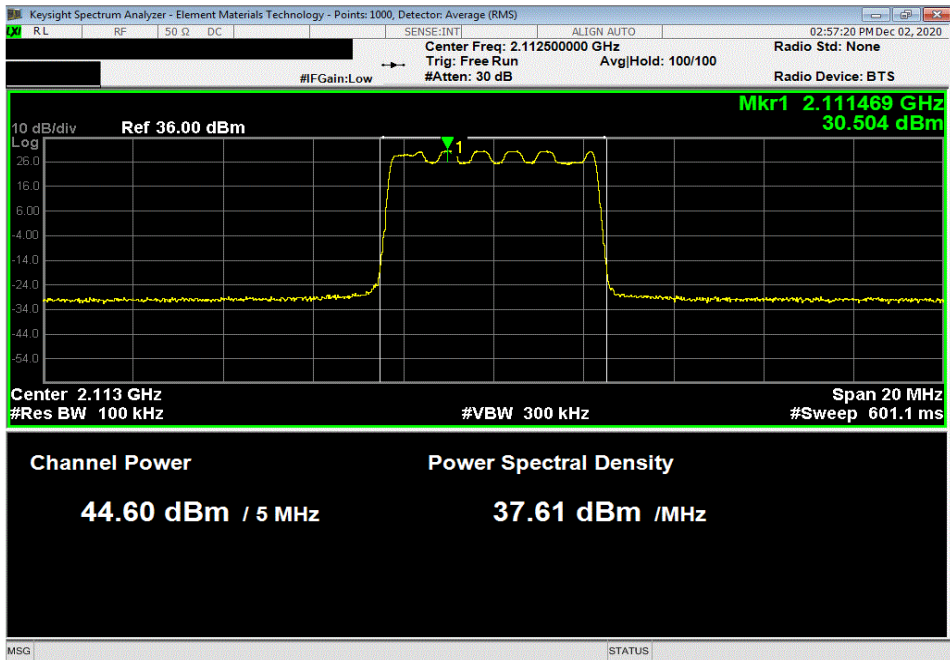


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 2152.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.696	0	44.7	47.7	50.7		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 2112.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.597	0	44.6	47.6	50.6		

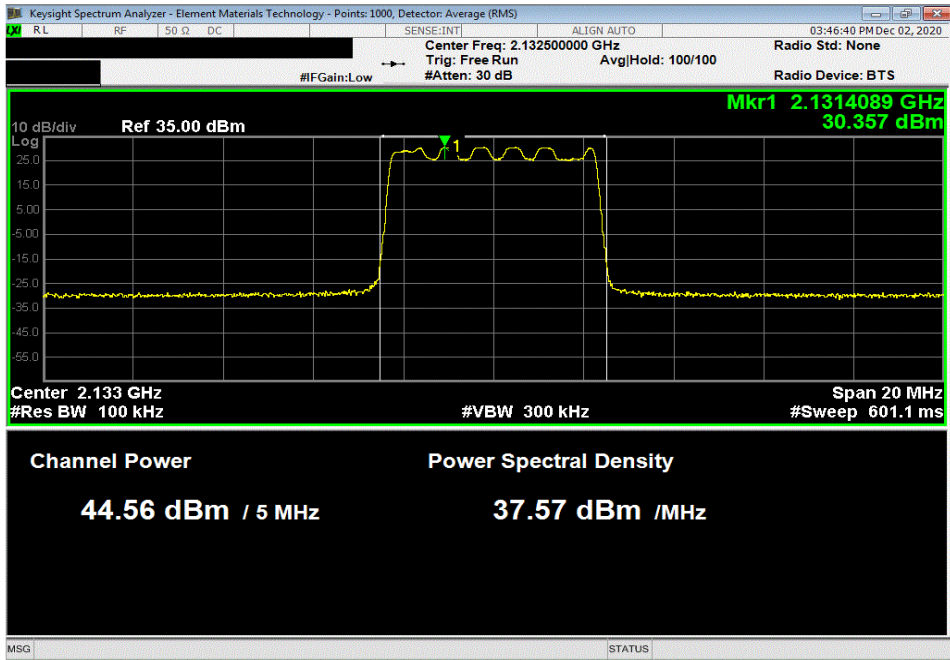


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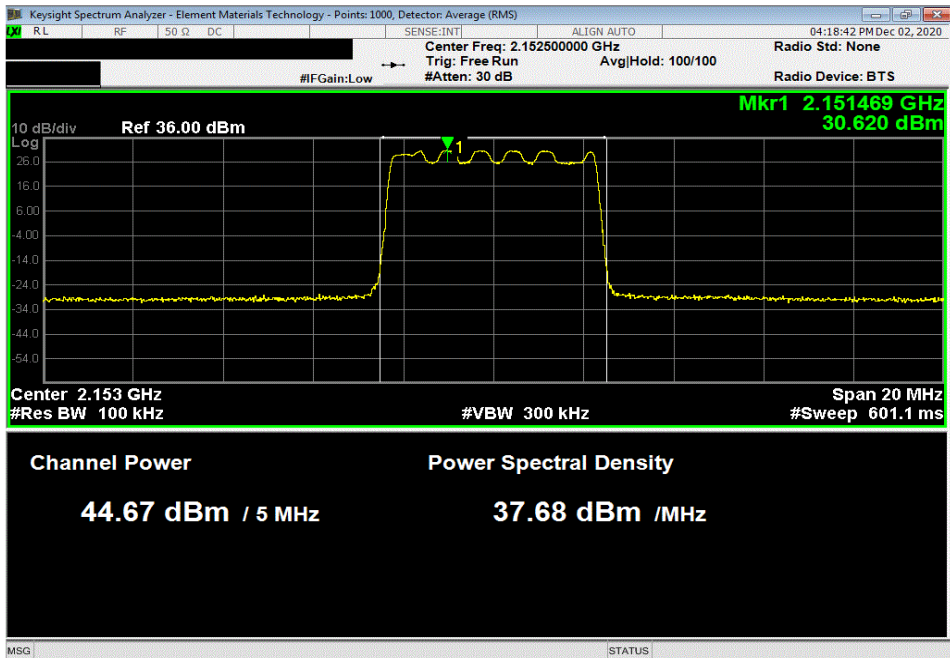


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.56	0	44.6	47.6	50.6		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 2152.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.666	0	44.7	47.7	50.7		

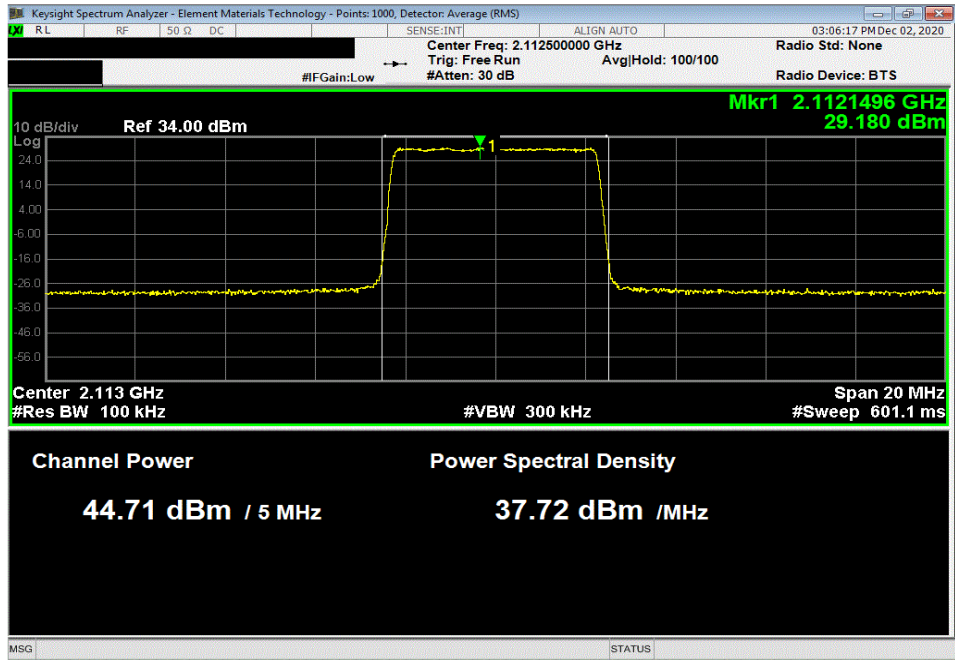


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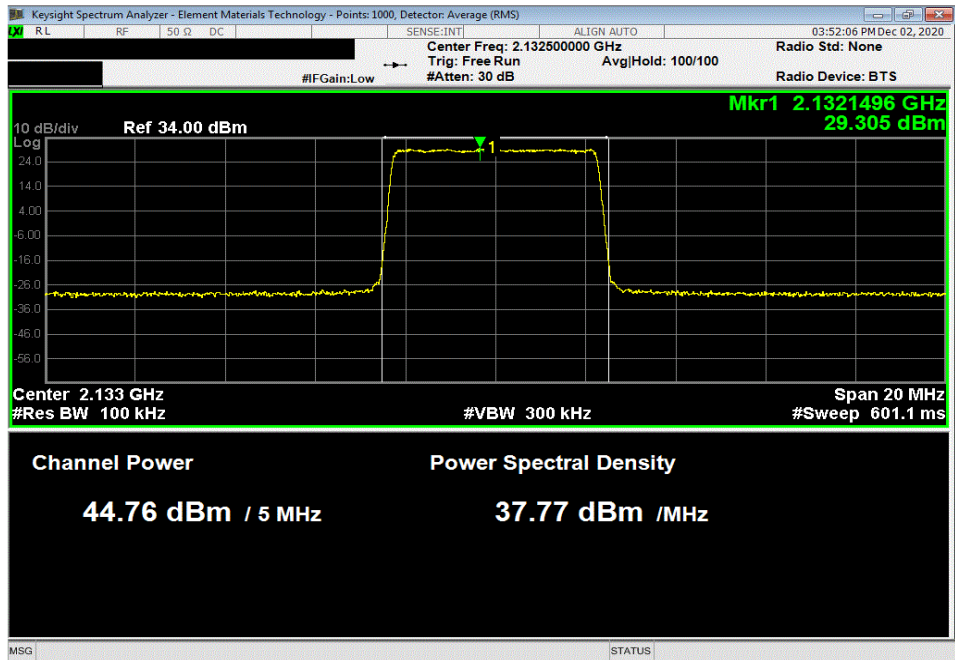


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 2112.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
44.71	0	44.7	47.7	50.7	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth , 64-QAM Modulation, Mid Channel 2132.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
44.76	0	44.8	47.8	50.8	

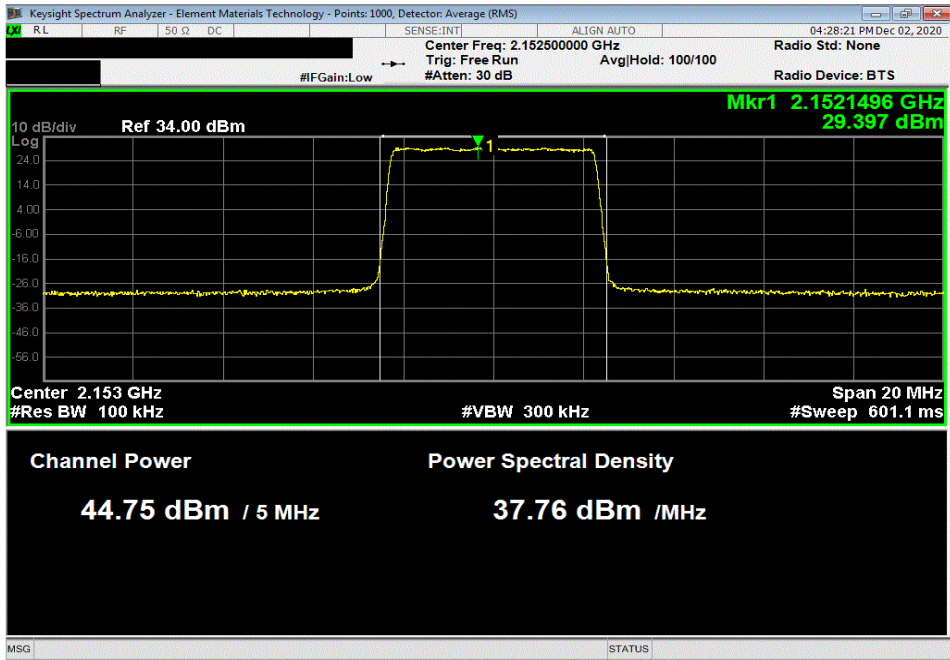


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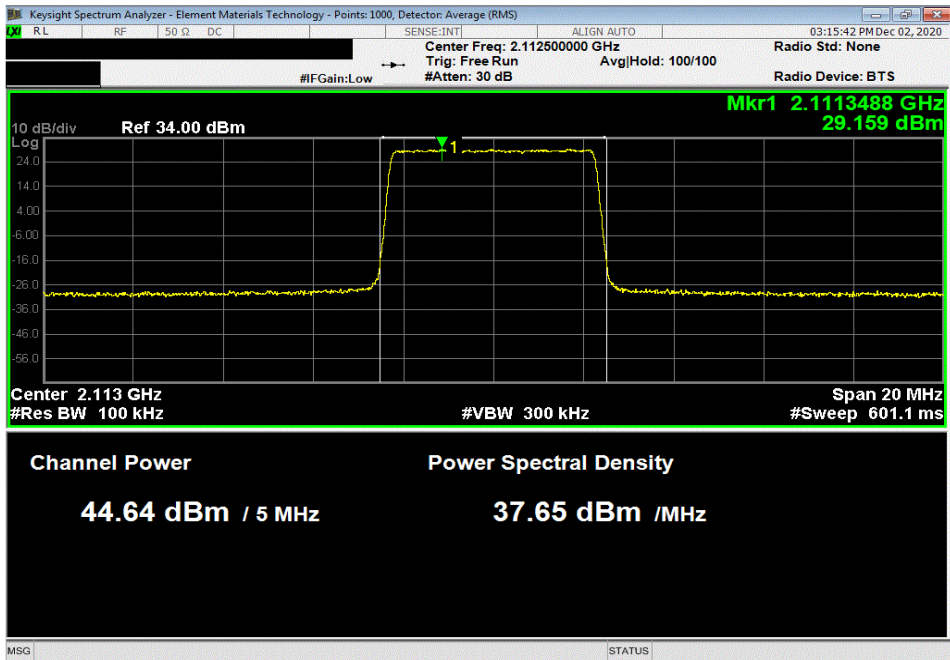


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 2152.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.746	0	44.7	47.7	50.7		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.644	0	44.6	47.6	50.6		

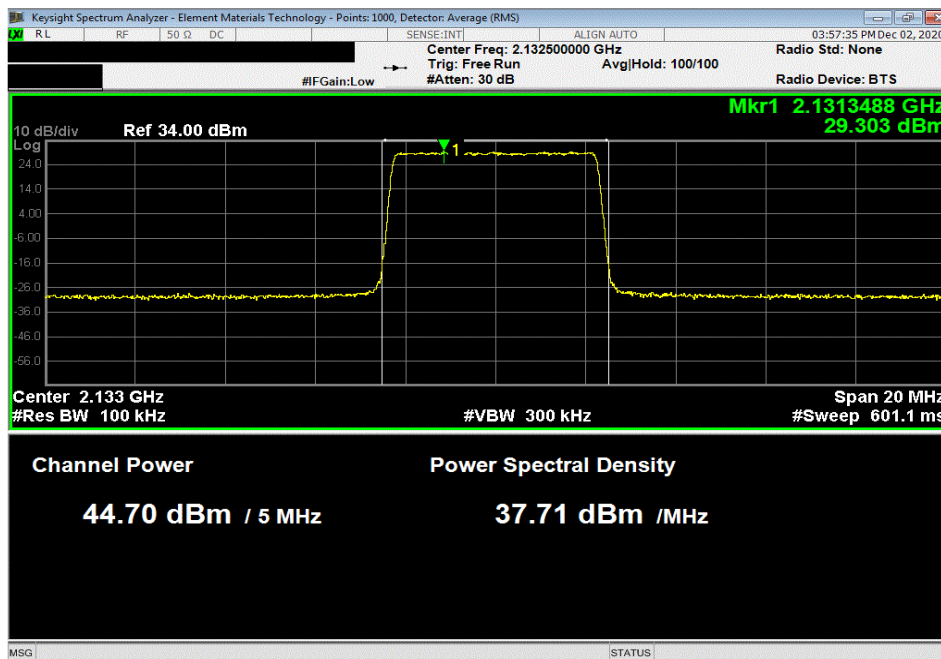


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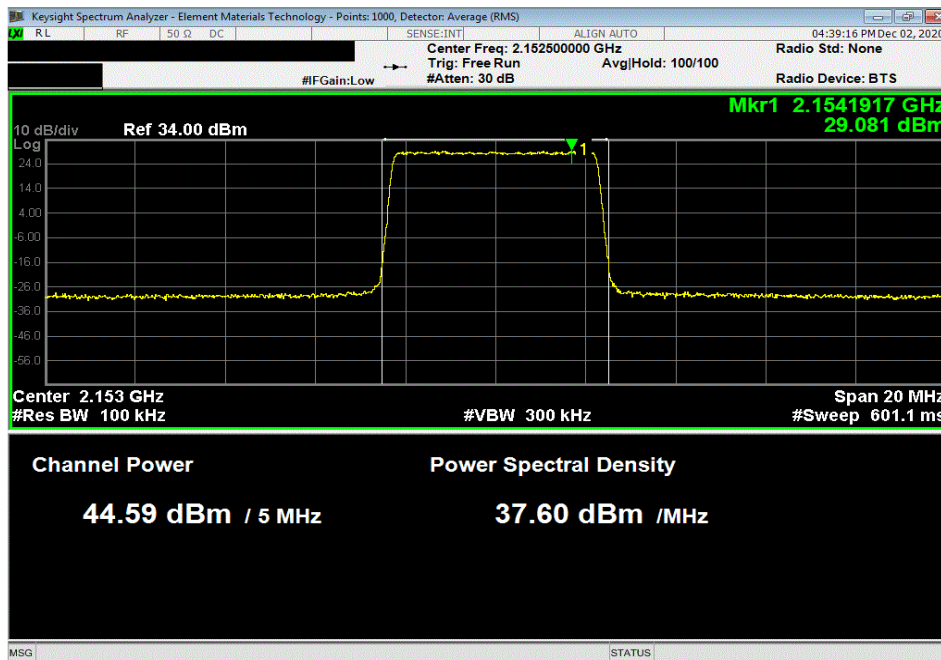


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.701	0	44.7	47.7	50.7		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2152.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.593	0	44.6	47.6	50.6		

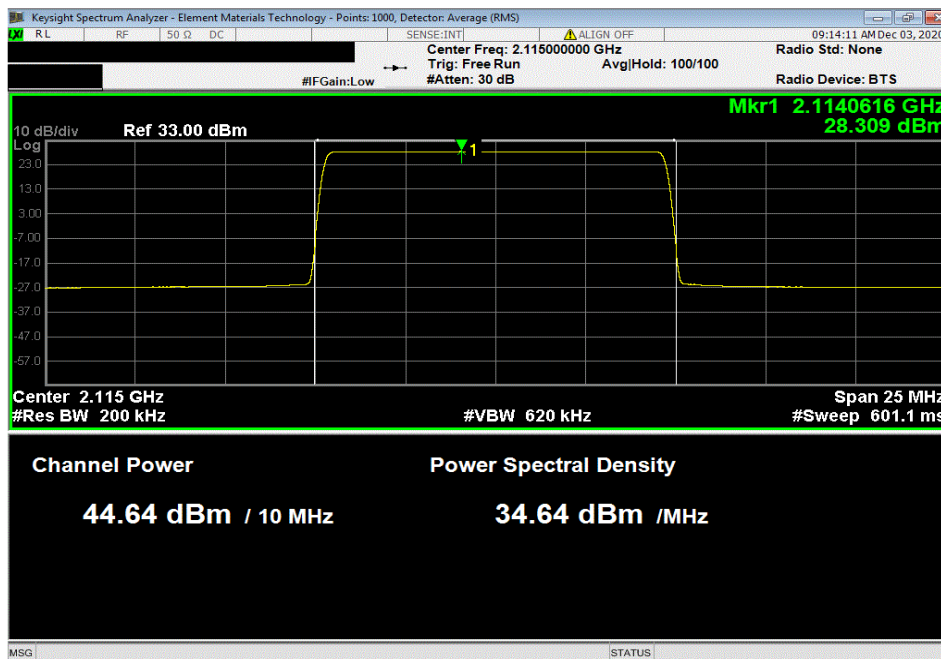


OUTPUT POWER - 4 PORT MODE

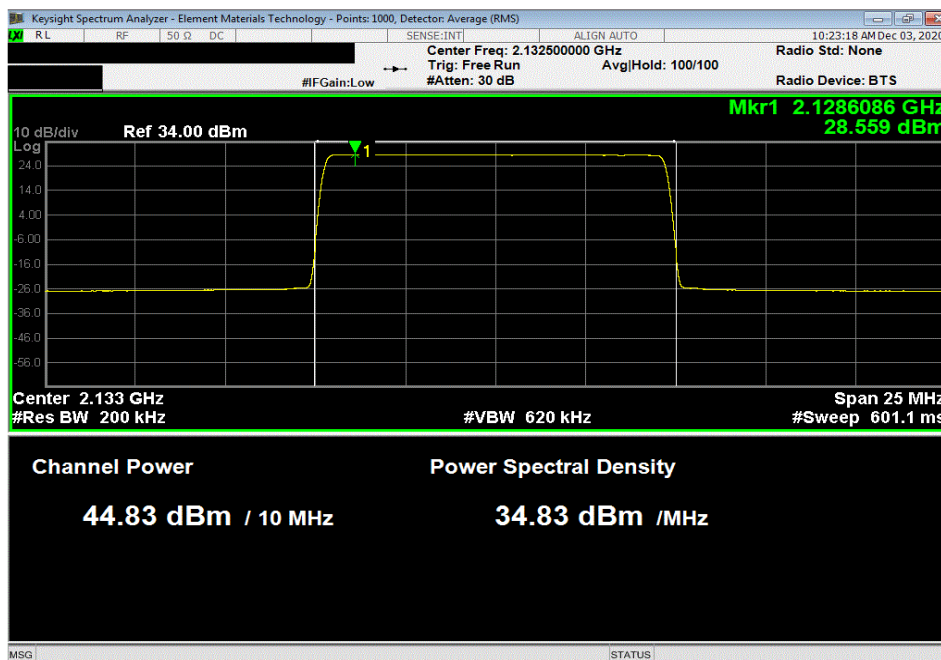


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 2115 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.636	0	44.6	47.6	50.6		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.834	0	44.8	47.8	50.8		

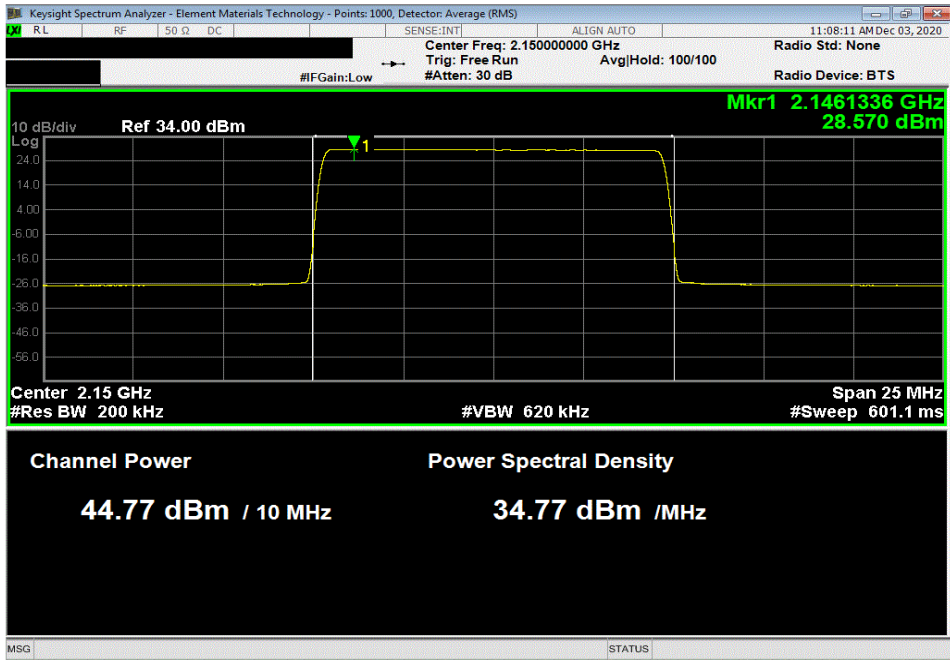


OUTPUT POWER - 4 PORT MODE

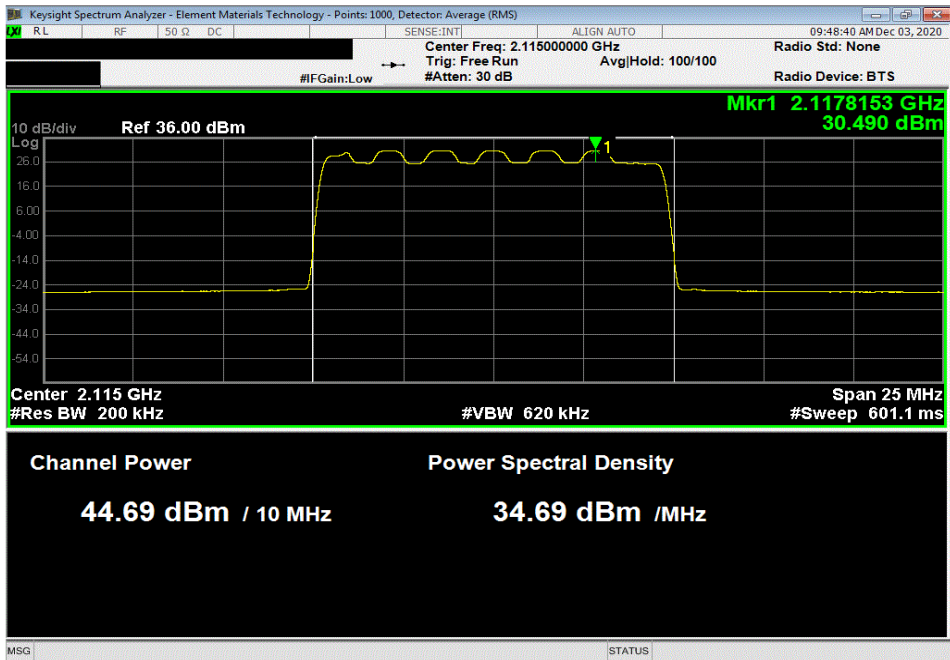


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , QPSK Modulation, High Channel 2150 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.772	0	44.8	47.8	50.8		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 2115 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.693	0	44.7	47.7	50.7		

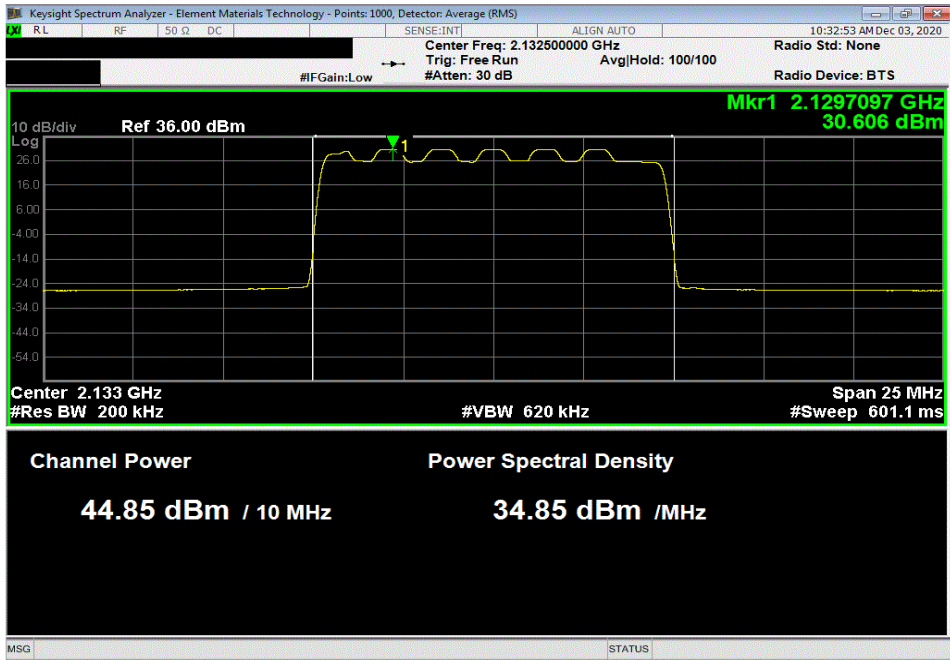


OUTPUT POWER - 4 PORT MODE

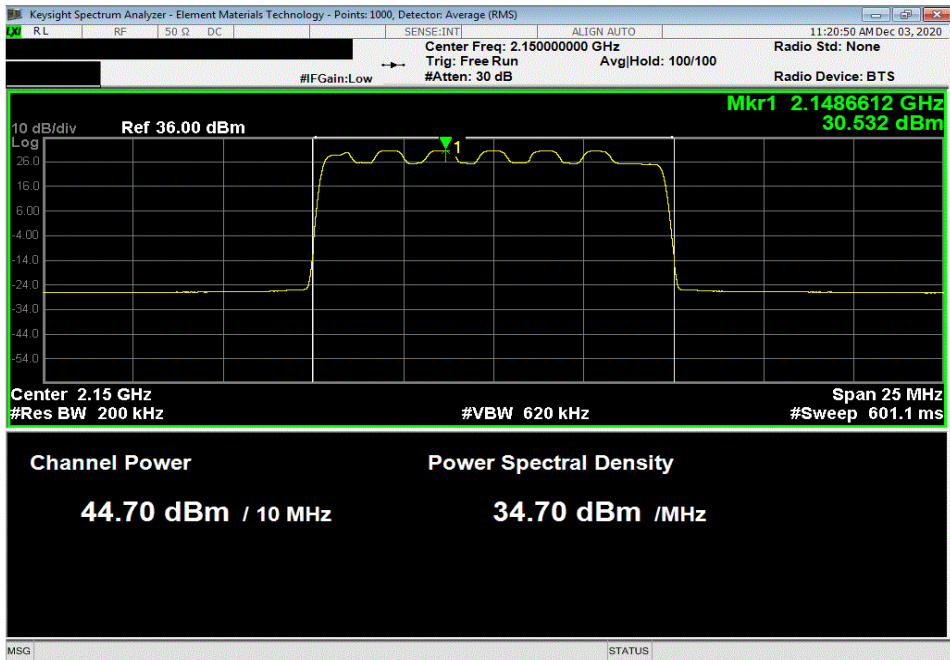


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 16-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.853	0	44.9	47.9	50.9		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2150 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.705	0	44.7	47.7	50.7		

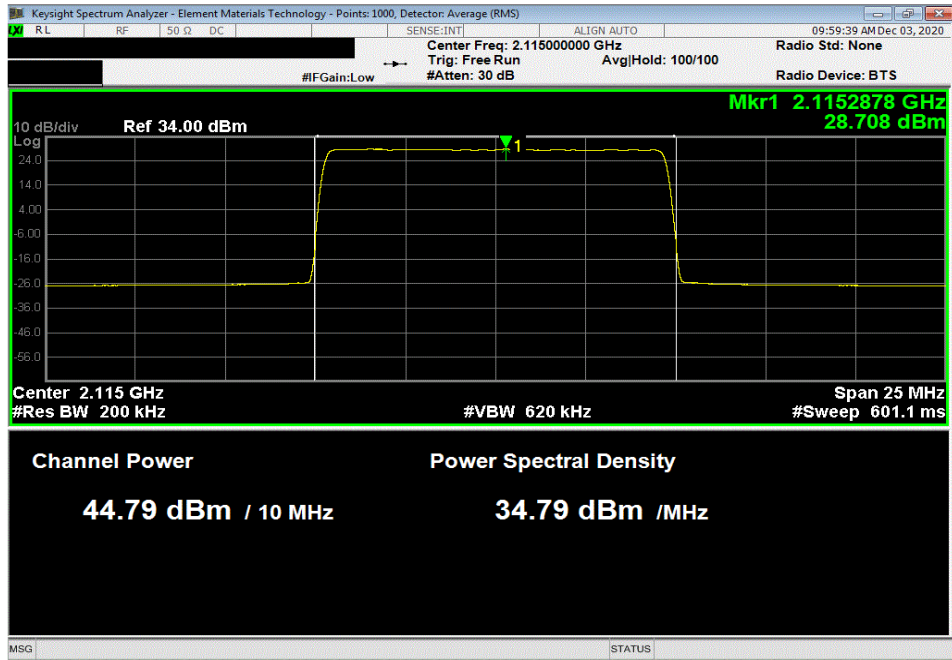


OUTPUT POWER - 4 PORT MODE

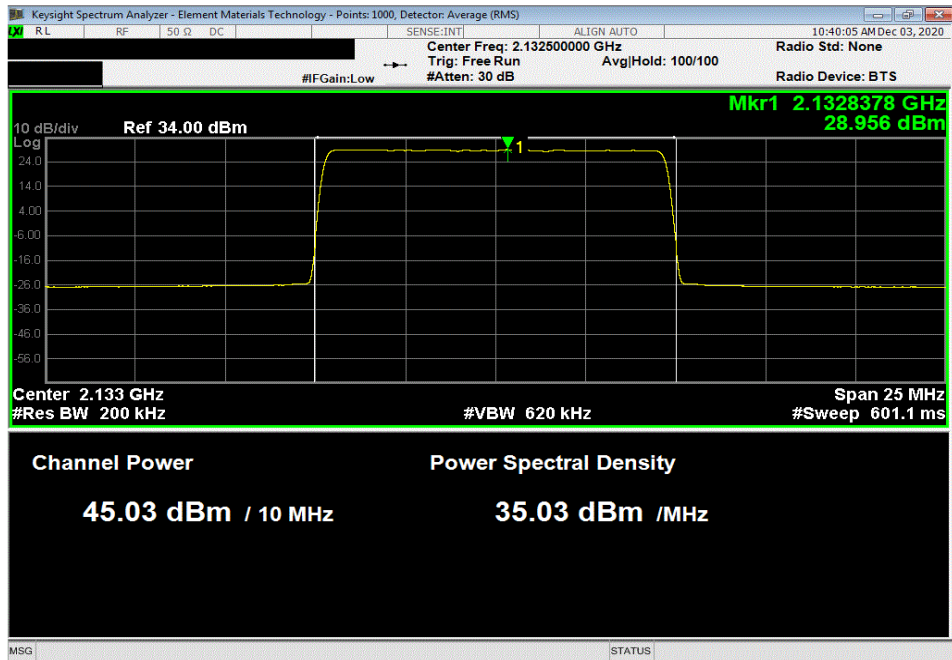


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.787	0	44.8	47.8	50.8		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 64-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
45.035	0	45.0	48.0	51.0		

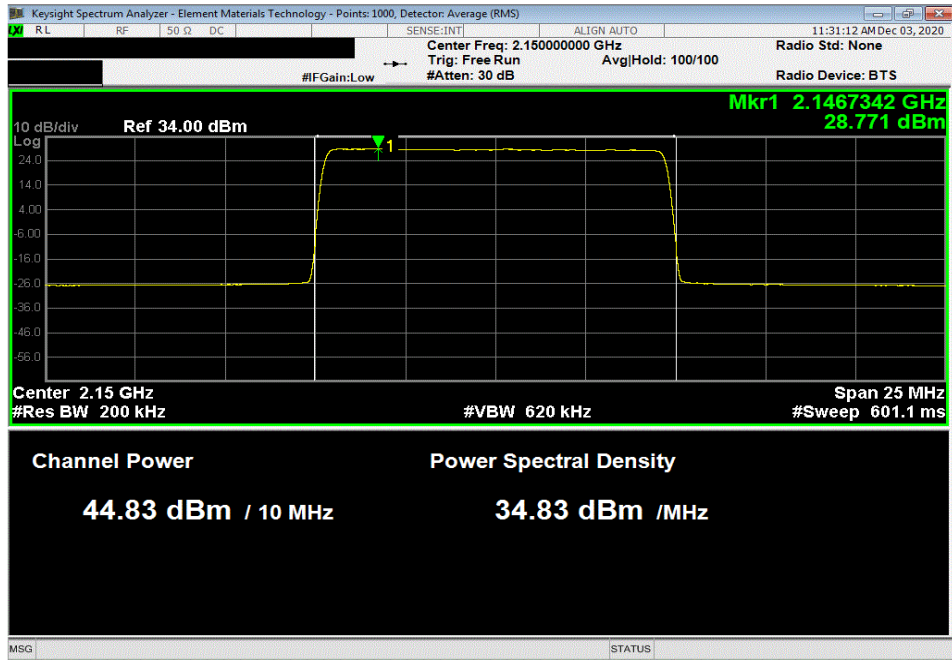


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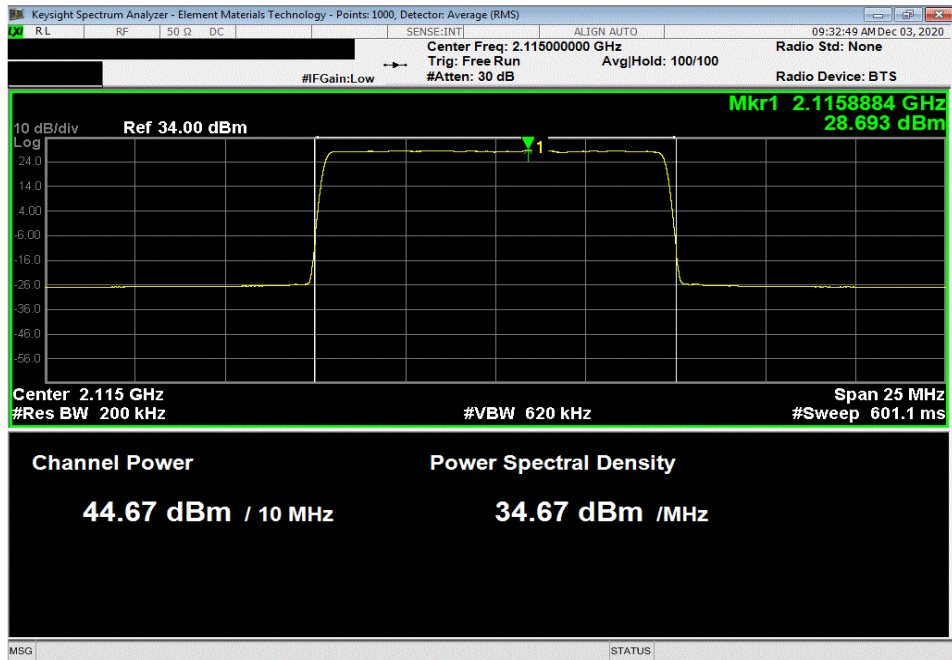


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2150 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.834	0	44.8	47.8	50.8		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 2115 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.672	0	44.7	47.7	50.7		

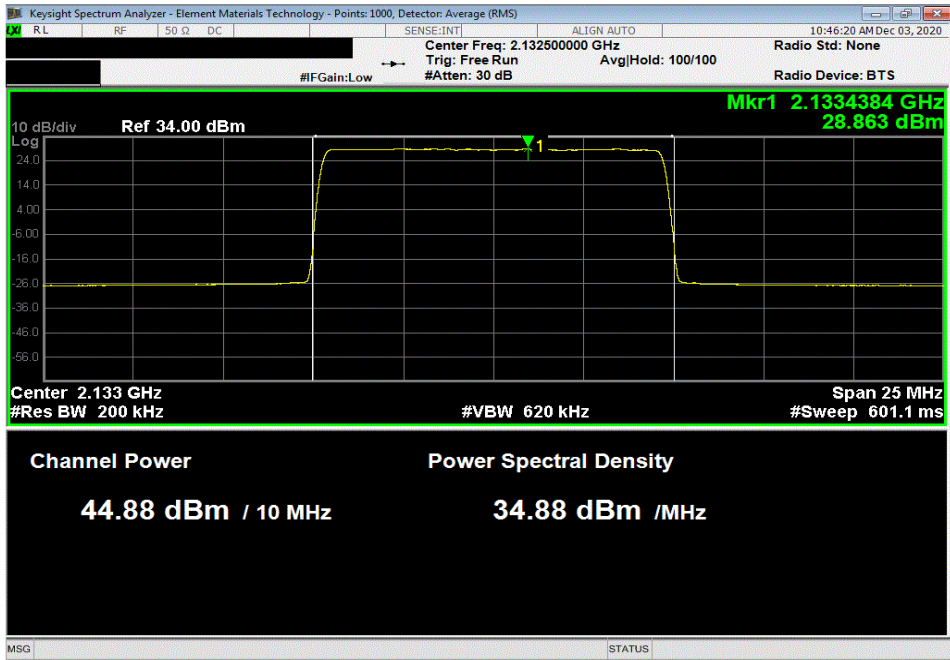


OUTPUT POWER - 4 PORT MODE

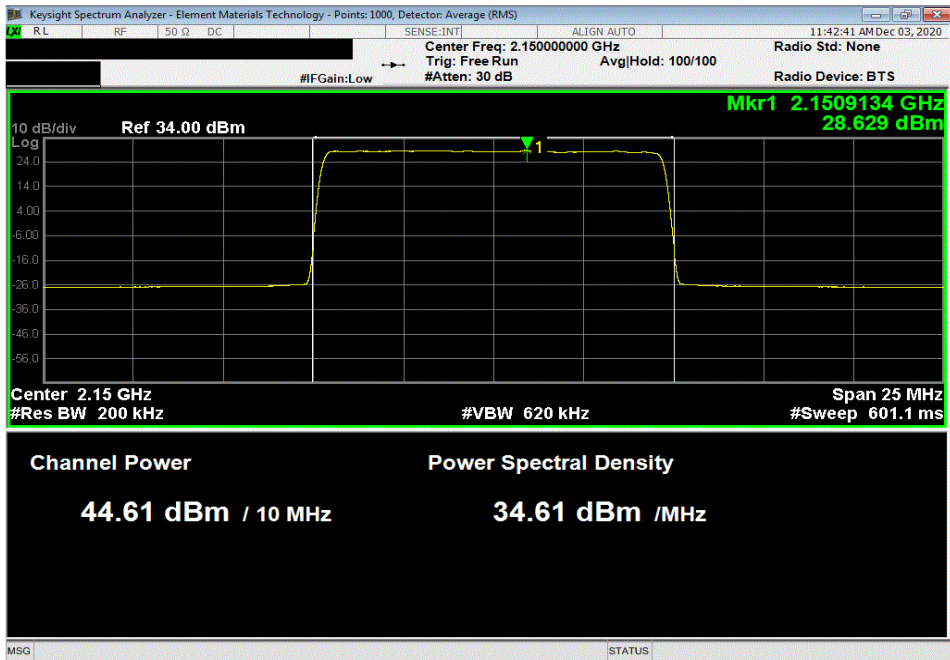


ThTx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.88	0	44.9	47.9	50.9		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 2150 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.613	0	44.6	47.6	50.6		

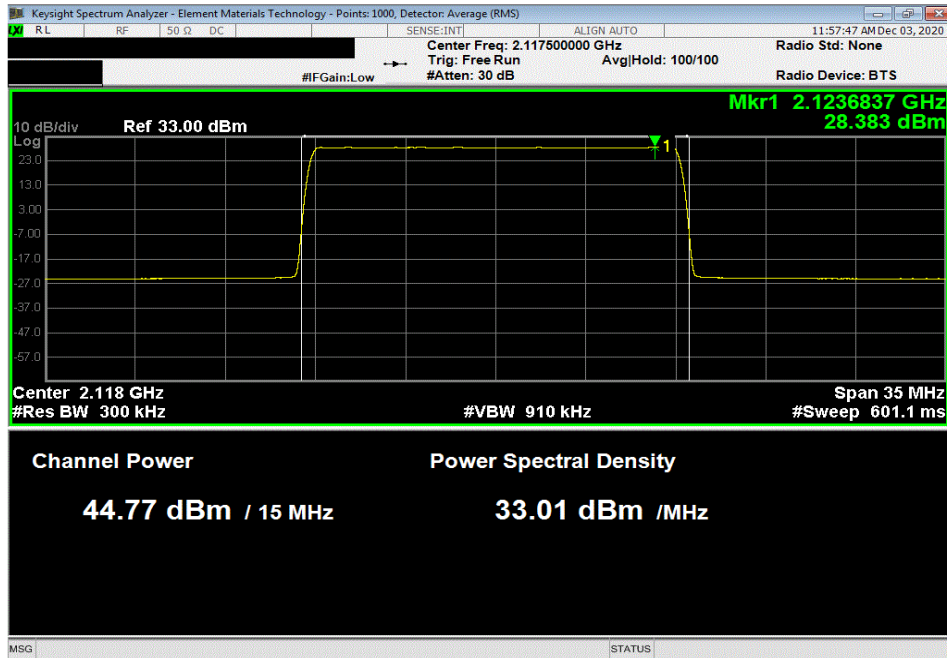


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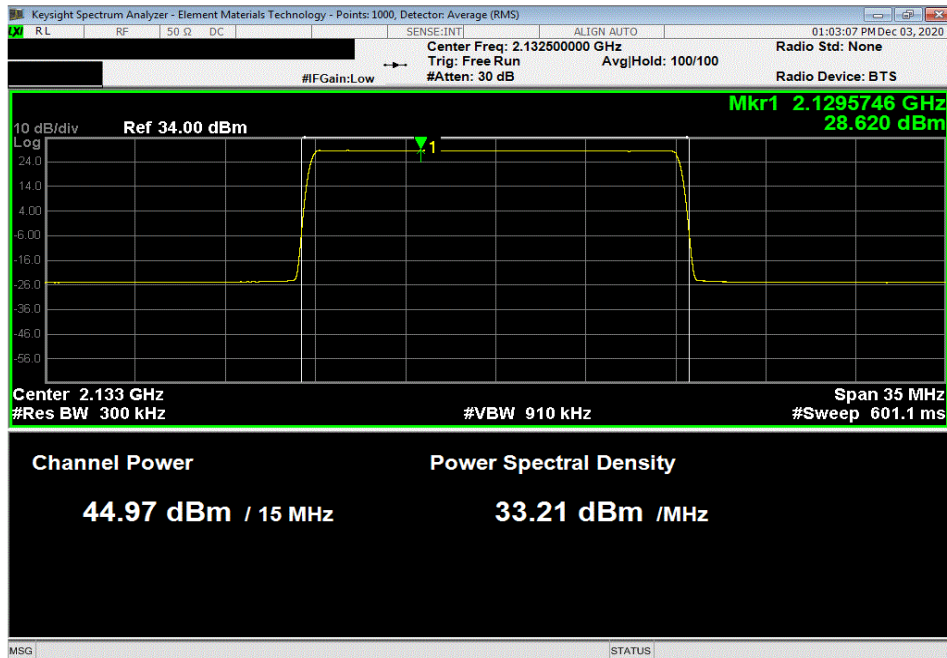


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel 2117.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.768	0	44.8	47.8	50.8		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.971	0	45.0	48.0	51.0		

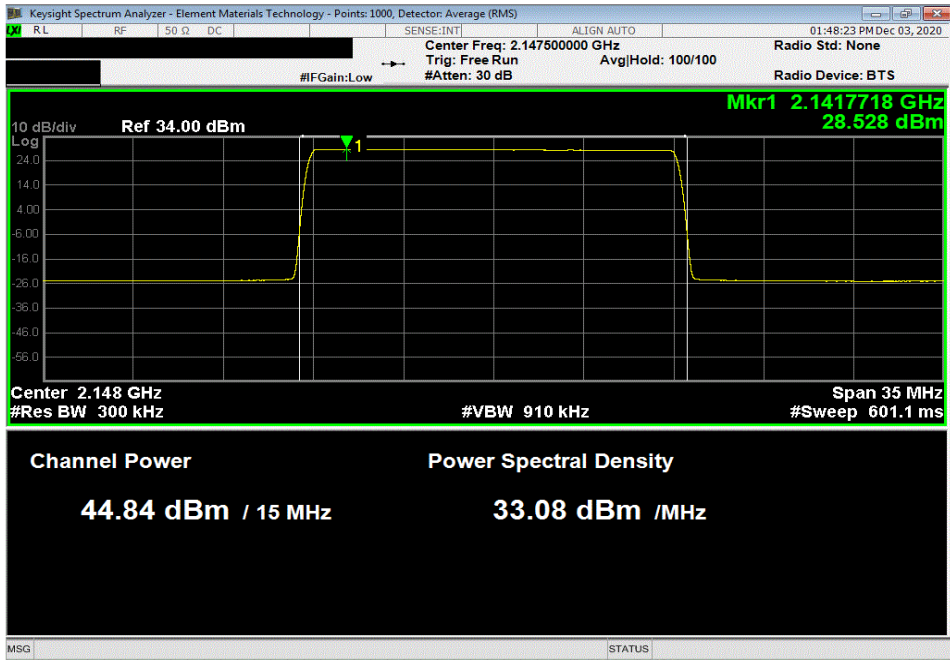


OUTPUT POWER - 4 PORT MODE

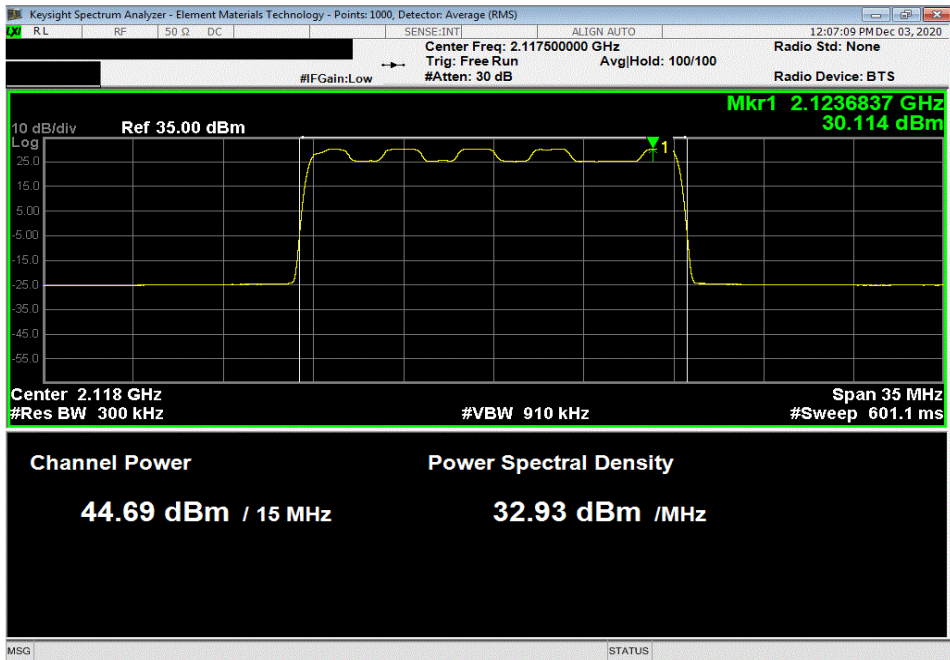


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel 2147.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.841	0	44.8	47.8	50.8		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 2117.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.69	0	44.7	47.7	50.7		

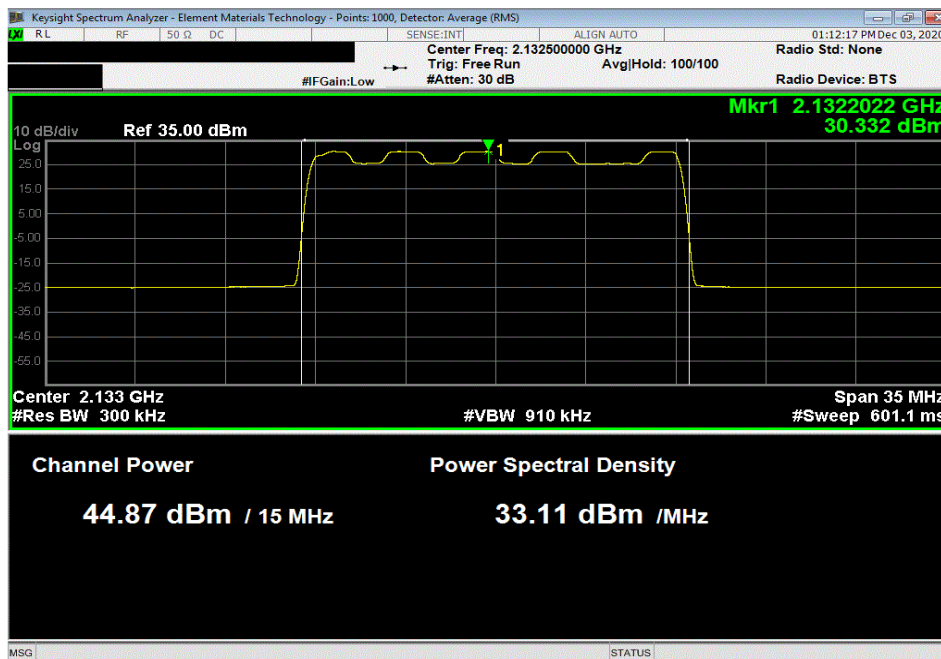


OUTPUT POWER - 4 PORT MODE

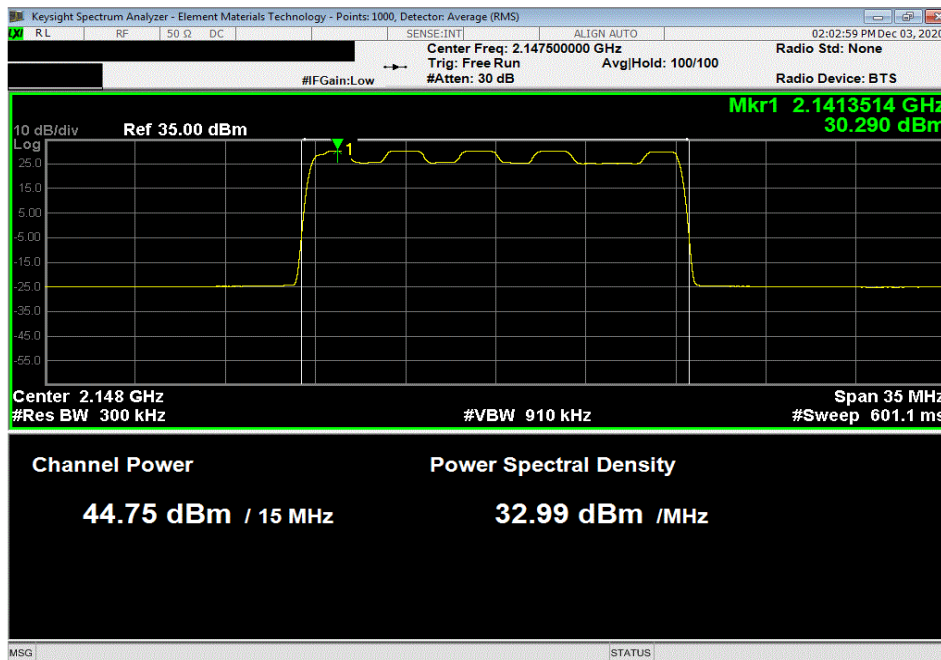


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.872	0	44.9	47.9	50.9		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 2147.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.752	0	44.8	47.8	50.8		

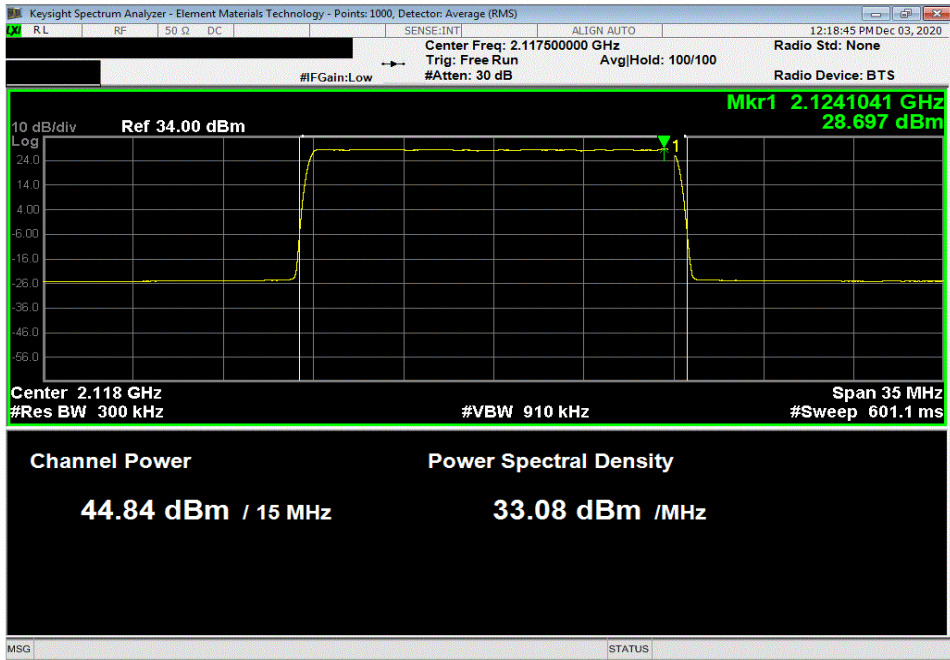


OUTPUT POWER - 4 PORT MODE

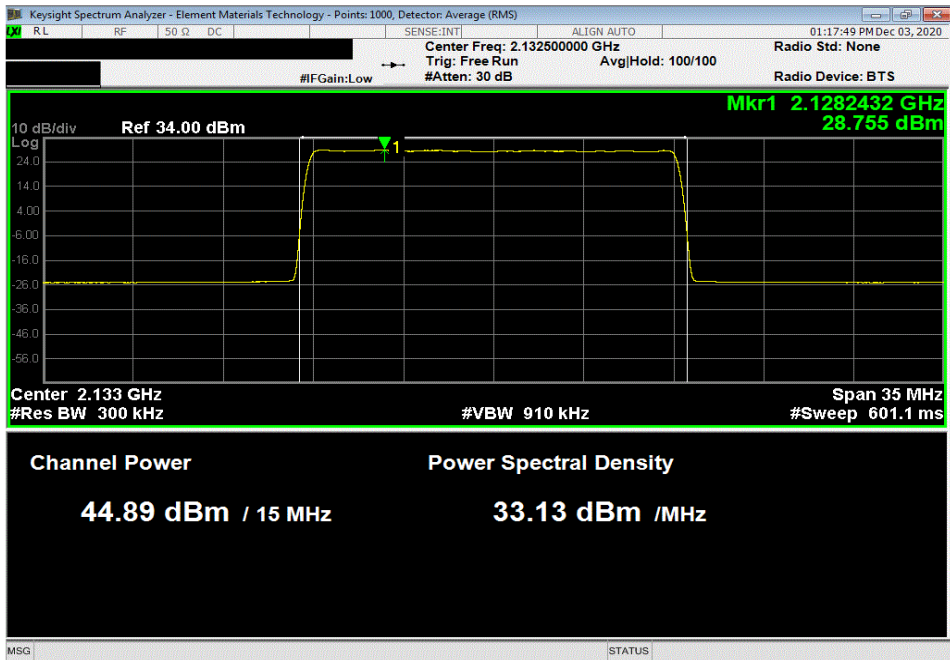


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth , 64-QAM Modulation, Low Channel 2117.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.838	0	44.8	47.8	50.8		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth , 64-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.892	0	44.9	47.9	50.9		

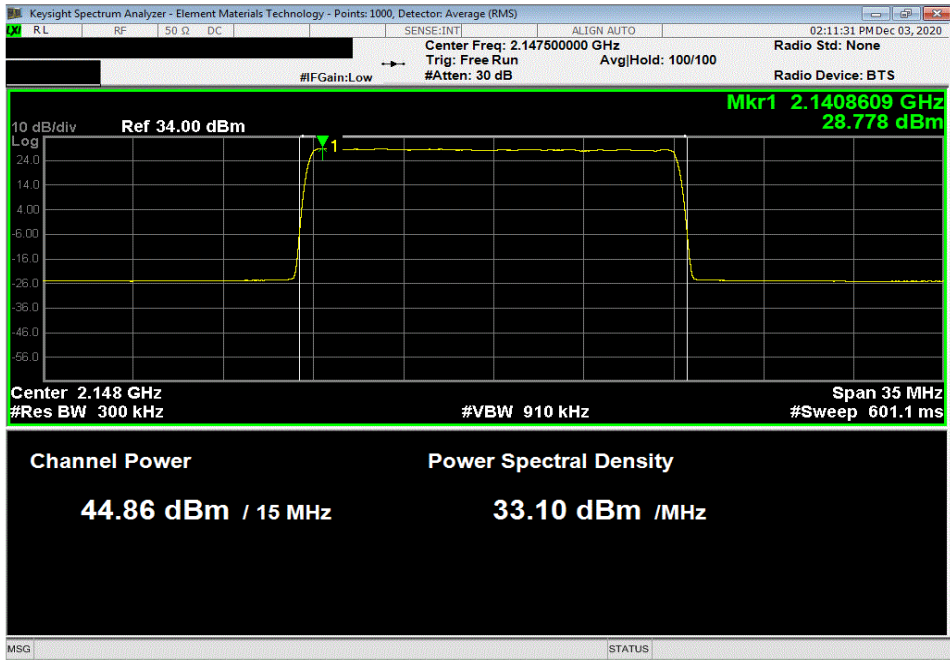


OUTPUT POWER - 4 PORT MODE

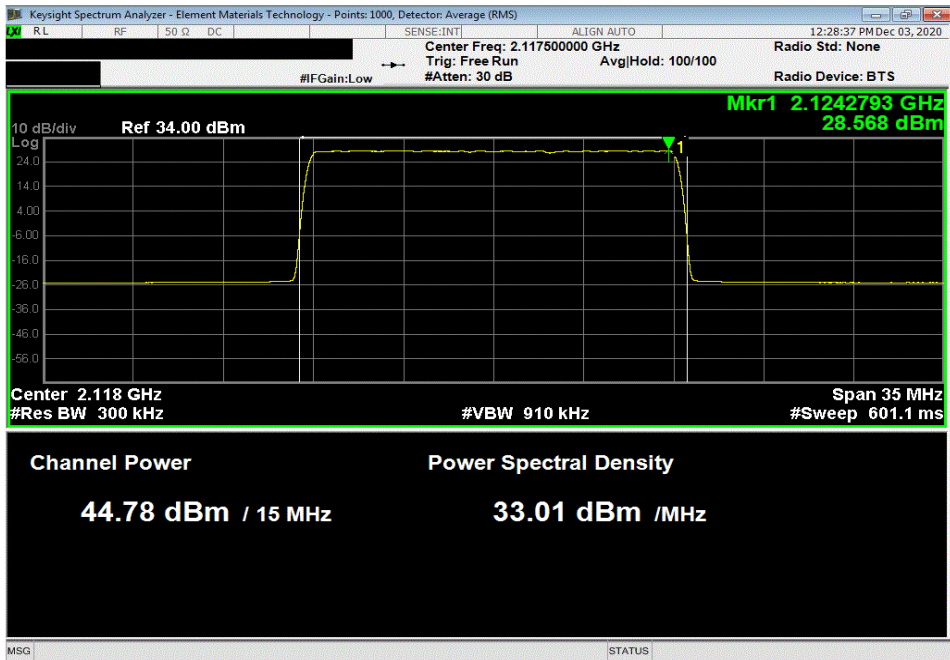


ThTx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 2147.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.858	0	44.9	47.9	50.9		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 2117.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.776	0	44.8	47.8	50.8		

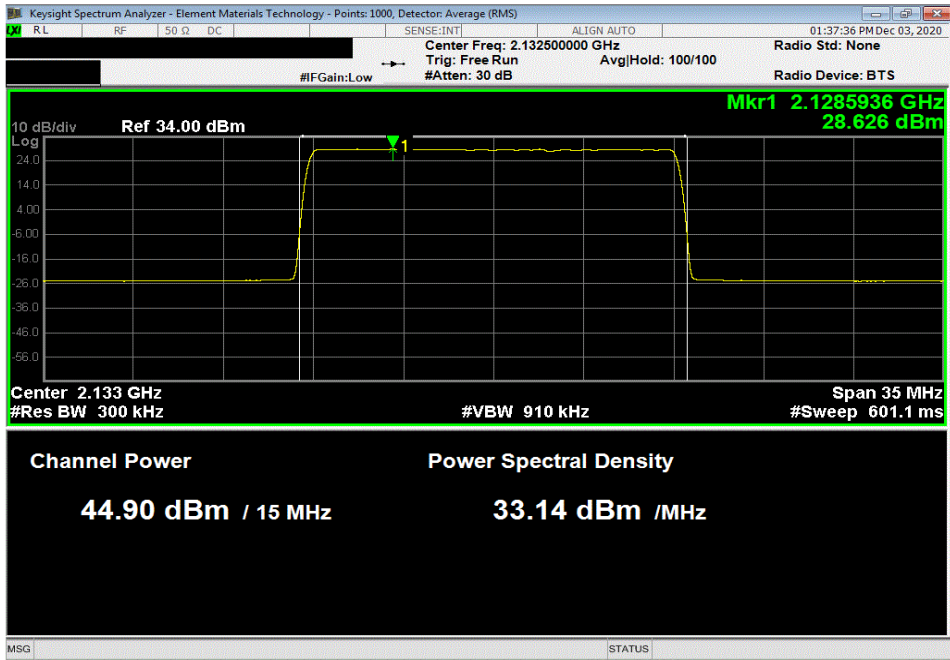


OUTPUT POWER - 4 PORT MODE

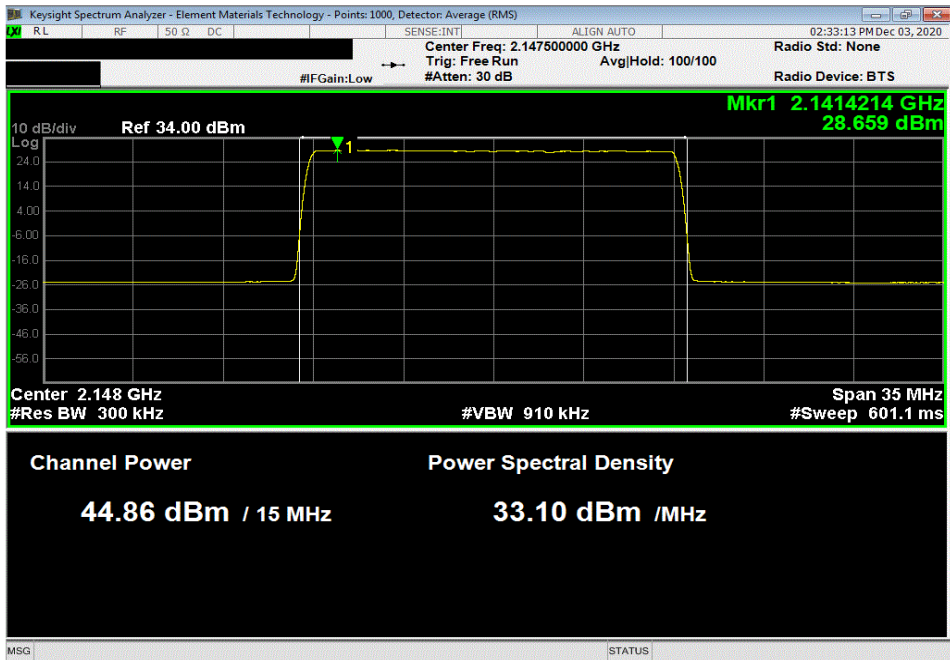


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.898	0	44.9	47.9	50.9		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth , 256-QAM Modulation, High Channel 2147.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.864	0	44.9	47.9	50.9		

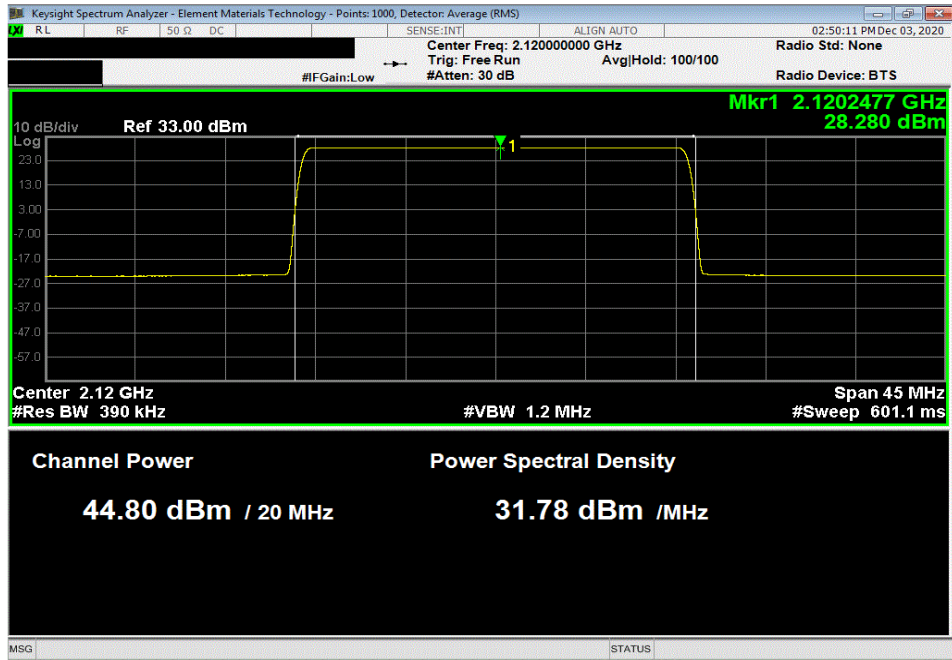


OUTPUT POWER - 4 PORT MODE

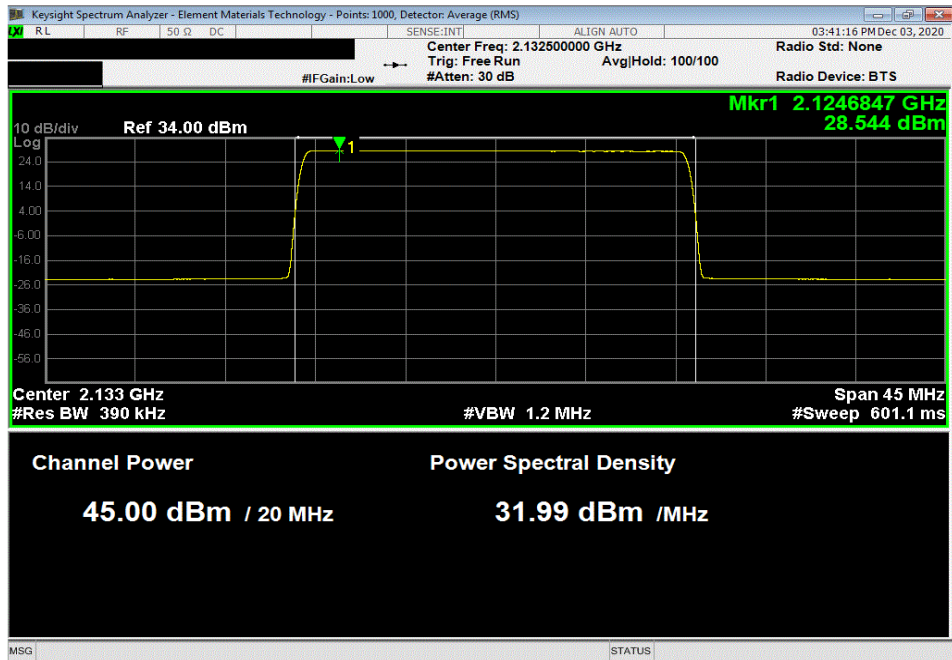


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.795	0	44.8	47.8	50.8		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.999	0	45.0	48.0	51.0		

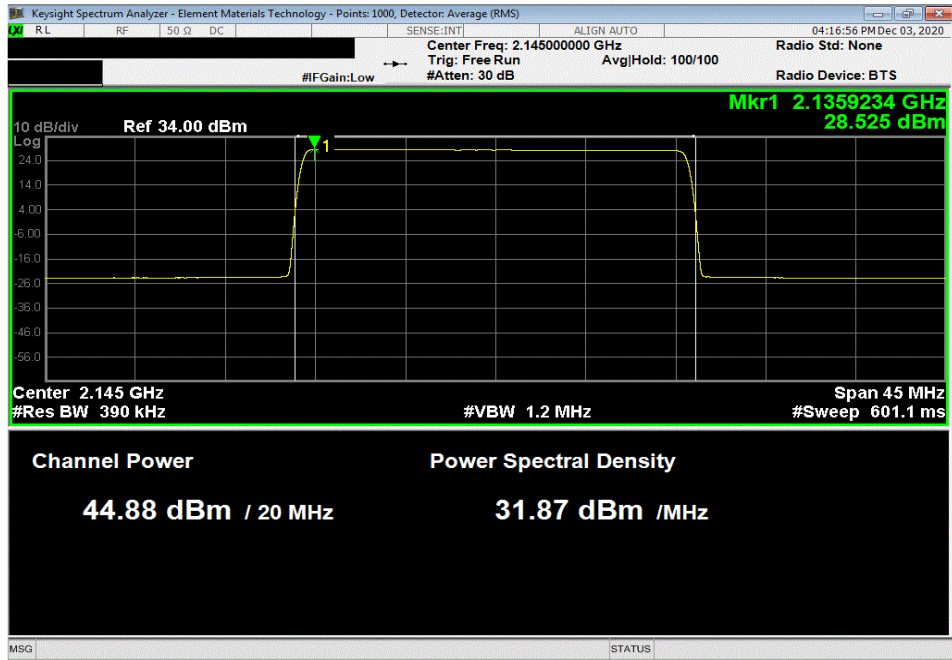


OUTPUT POWER - 4 PORT MODE

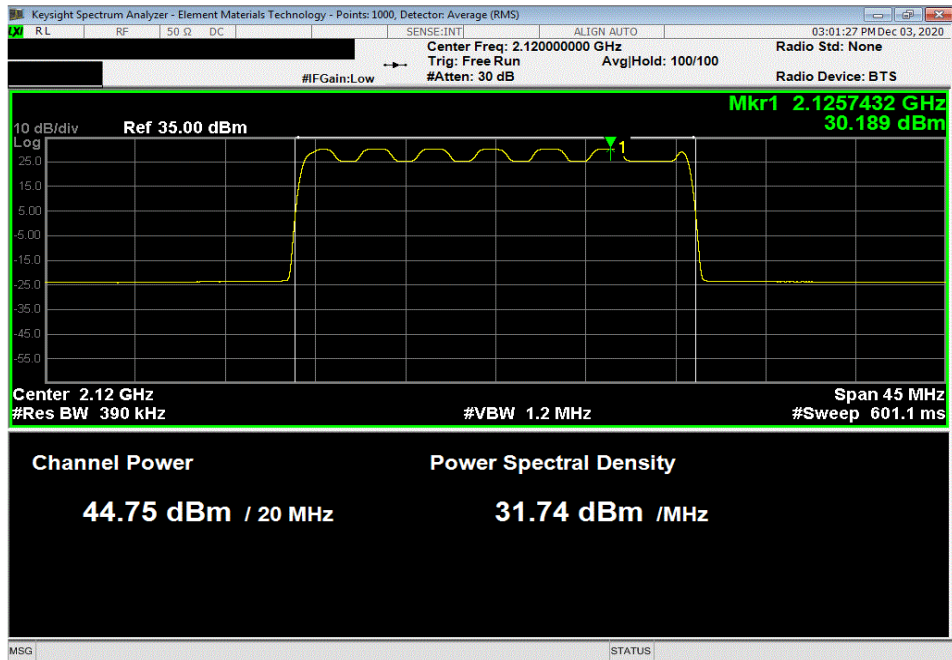


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 2145 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.879	0	44.9	47.9	50.9		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.755	0	44.8	47.8	50.8		

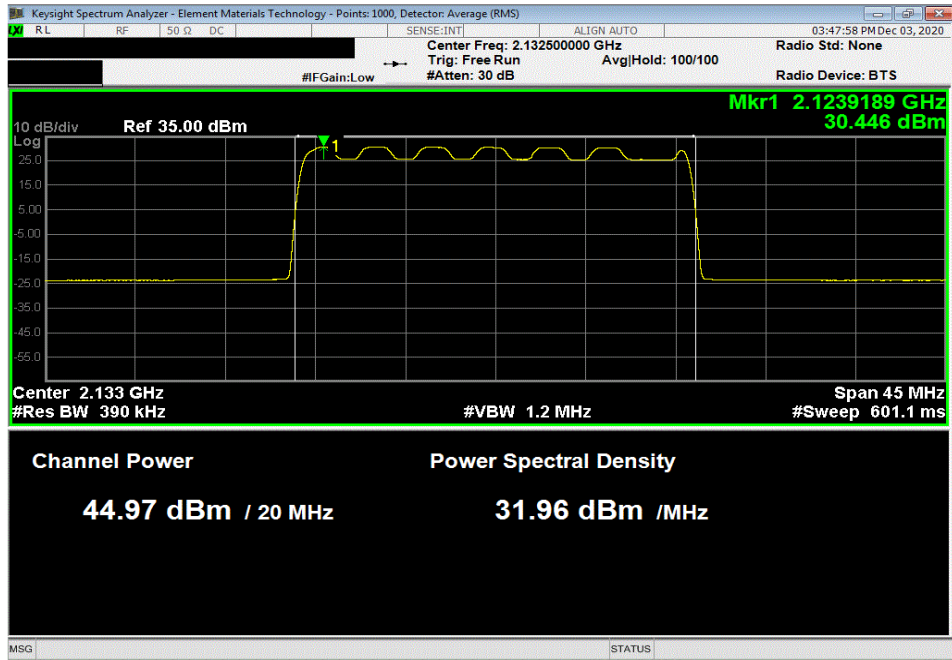


OUTPUT POWER - 4 PORT MODE

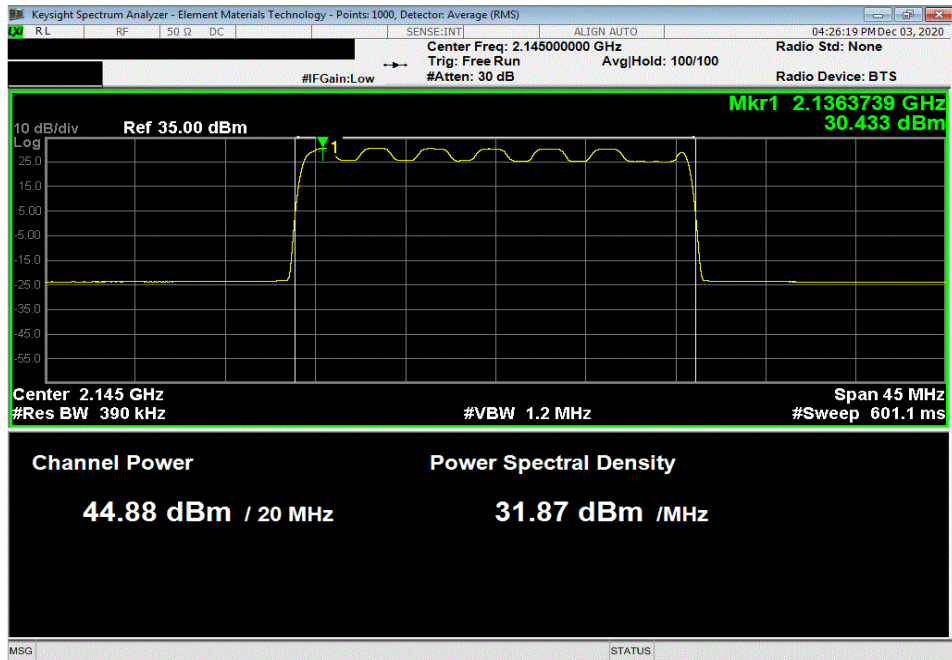


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.969	0	45.0	48.0	51.0		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2145 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.883	0	44.9	47.9	50.9		

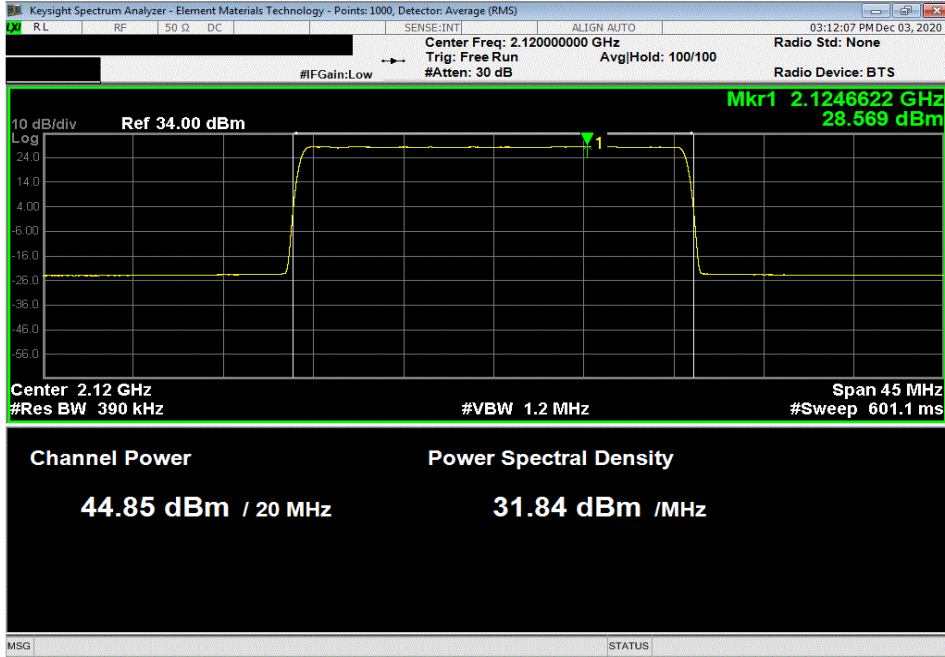


OUTPUT POWER - 4 PORT MODE

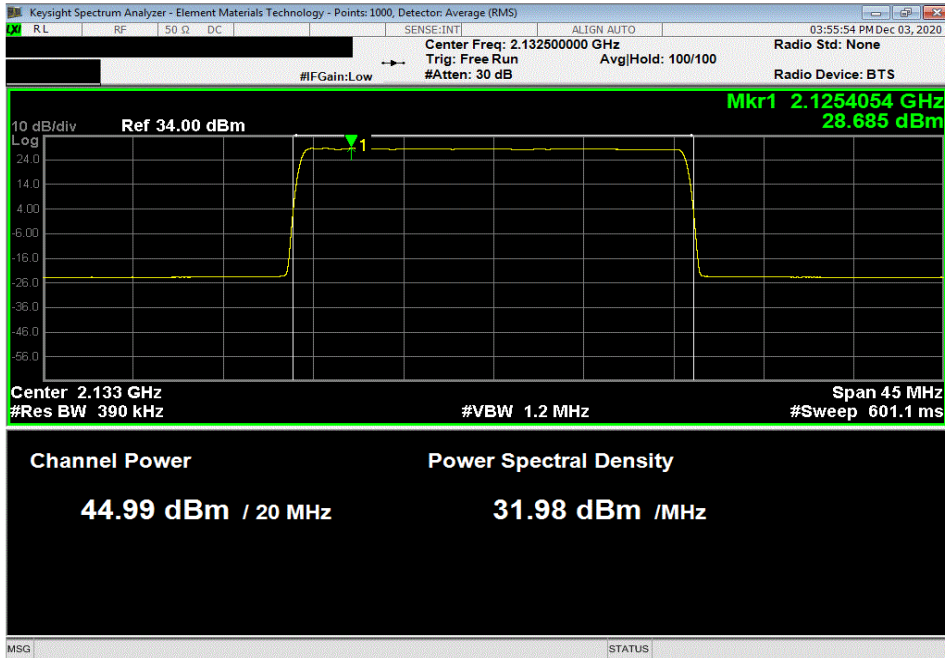


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.851	0	44.9	47.9	50.9		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.987	0	45.0	48.0	51.0		

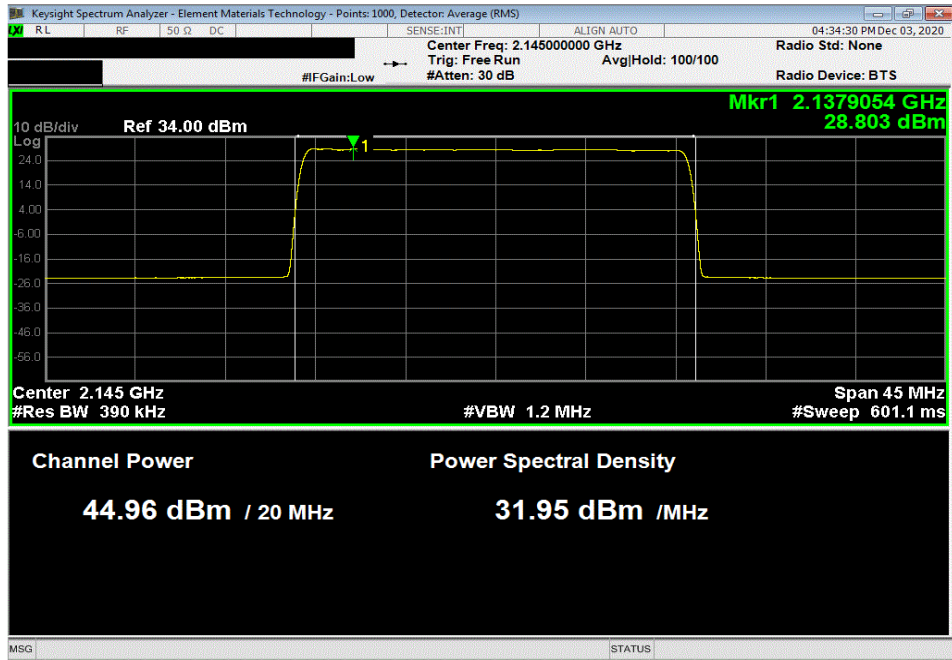


OUTPUT POWER - 4 PORT MODE

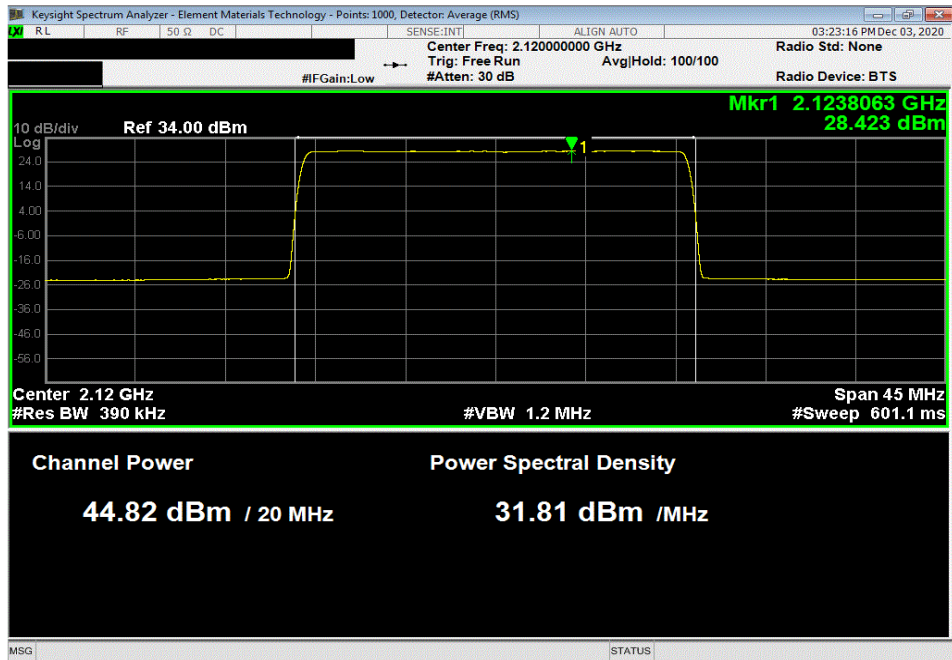


Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2145 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.961	0	45.0	48.0	51.0		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.818	0	44.8	47.8	50.8		

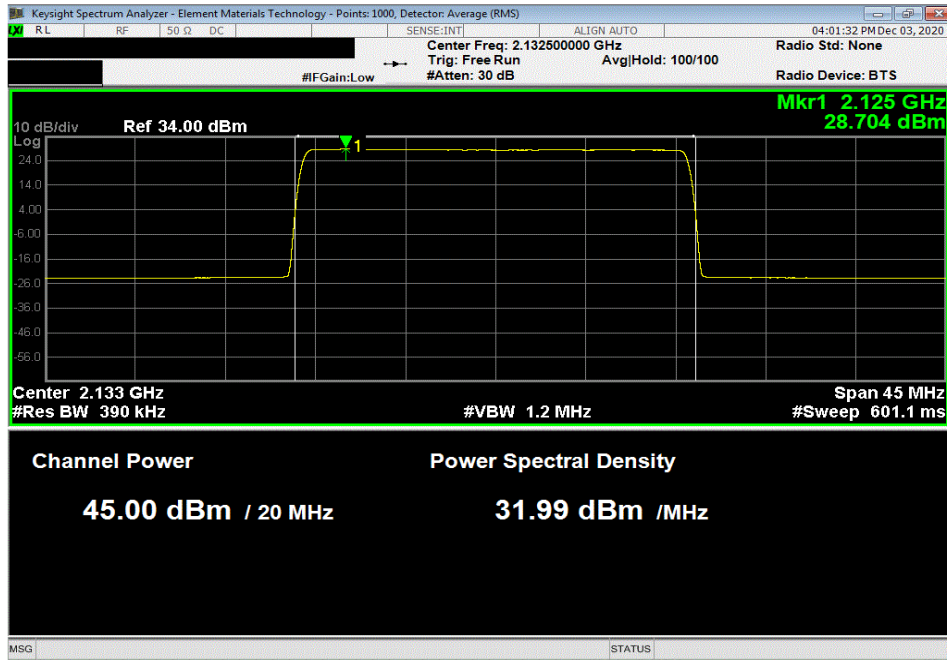


OUTPUT POWER - 4 PORT MODE



Thrx 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.996	0	45.0	48.0	51.0		



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2145 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
44.979	0	45.0	48.0	51.0		

