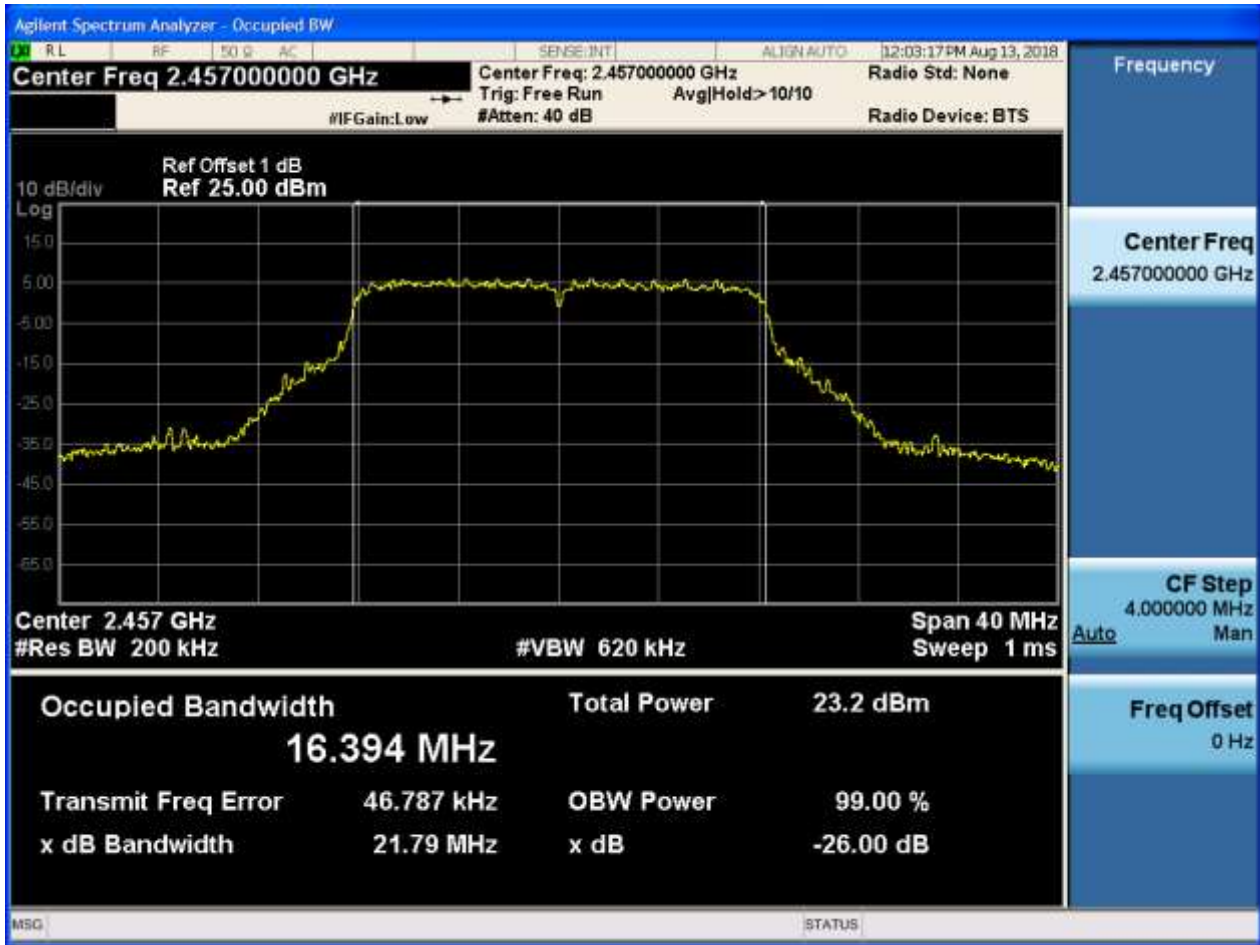


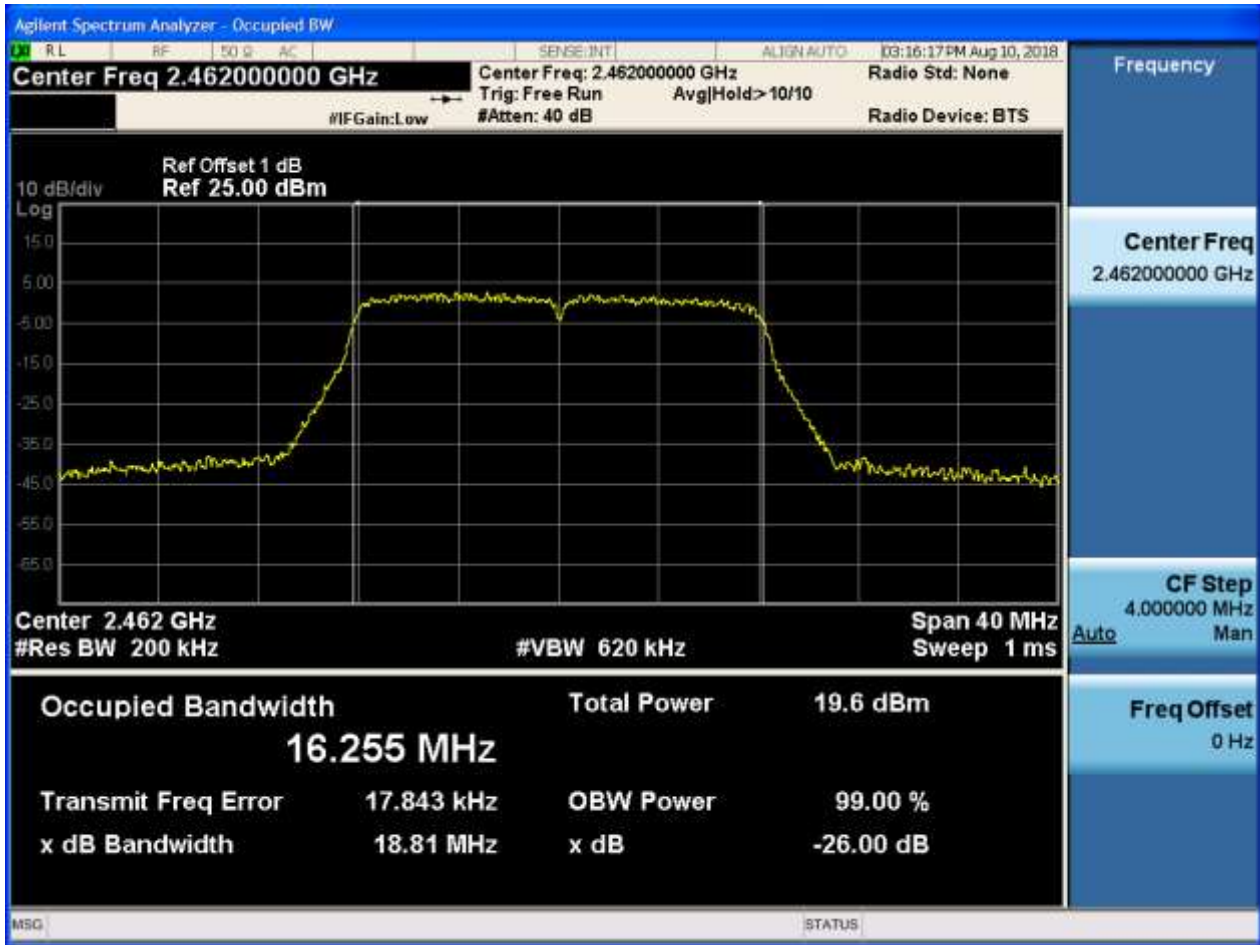


2.64 11G CDD _H_2457@Ant 2



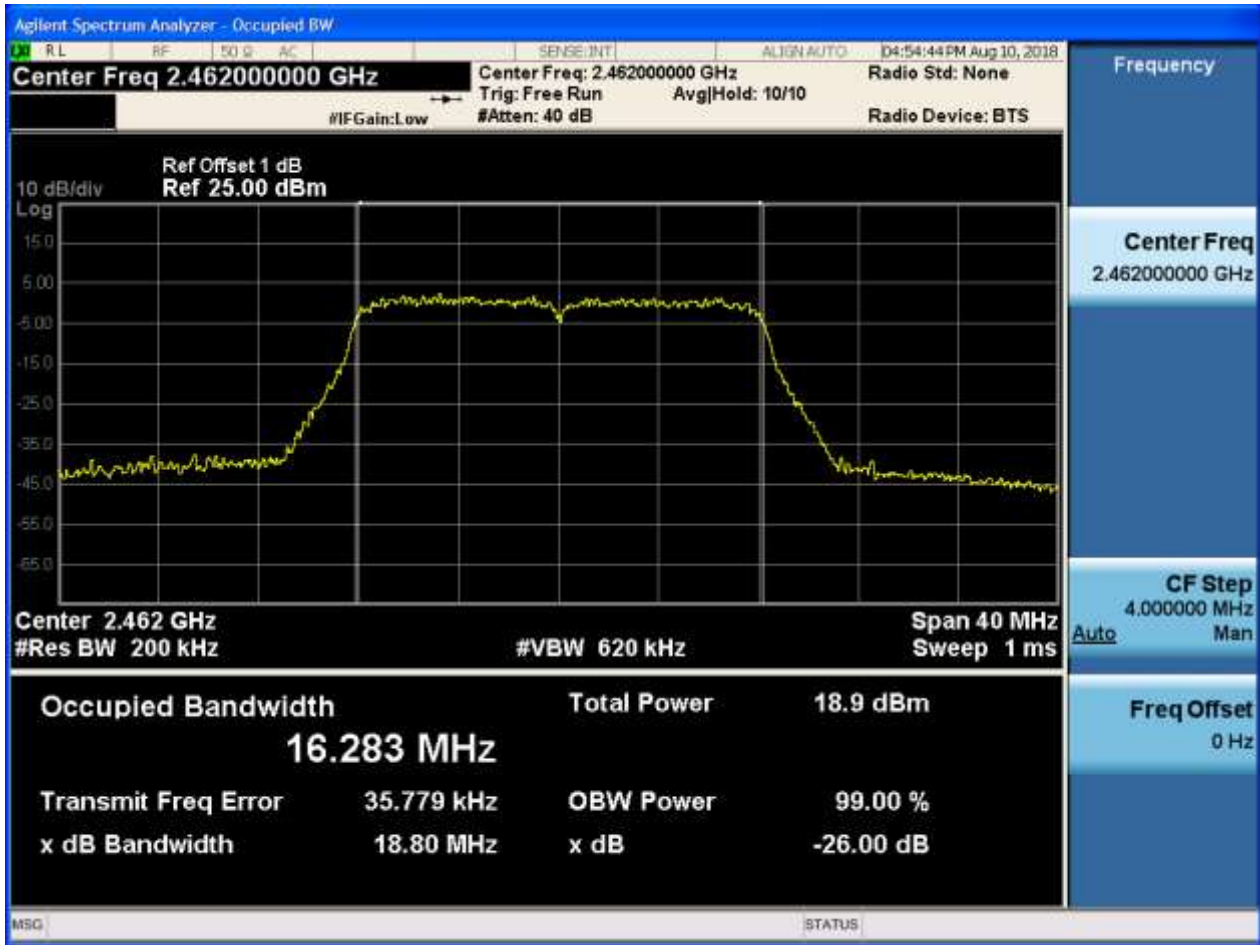


2.65 11G CDD _H_2462@Ant 1





2.66 11G CDD _H_2462@Ant 2



Appendix C: Duty Cycle

Part I - Test Results

Test Mode	TX Freq. [MHz]	Ant	Duty cycle [%]
11B	CH1,CH6,CH11	Ant 1	99.8
11B	CH1,CH6,CH11	Ant 2	99.8
11G	CH1,CH2,CH6,CH10,CH11	Ant 1	98.6
11G	CH1,CH2,CH6,CH10,CH11	Ant 2	98.4
11N20SISO	CH1,CH2,CH6,CH10,CH11	Ant 1	98.8
11N20SISO	CH1,CH2,CH6,CH10,CH11	Ant 2	98.9
11N40SISO	CH3,CH4,CH6,CH8,CH9	Ant 1	97.2
11N40SISO	CH3,CH4,CH6,CH8,CH9	Ant 2	97.2
11G CDD	CH1,CH2,CH6,CH10,CH11	Ant 1	98.6
11G CDD	CH1,CH2,CH6,CH10,CH11	Ant 2	98.8
11N20MIMO	CH1,CH2,CH6,CH10,CH11	Ant 1	97
11N20MIMO	CH1,CH2,CH6,CH10,CH11	Ant 2	96.8
11N40MIMO	CH3,CH4,CH6,CH8,CH9	Ant 1	94.4
11N40MIMO	CH3,CH4,CH6,CH8,CH9	Ant 2	94.7



Part II - Test Plots

11B_SISO_ANT1



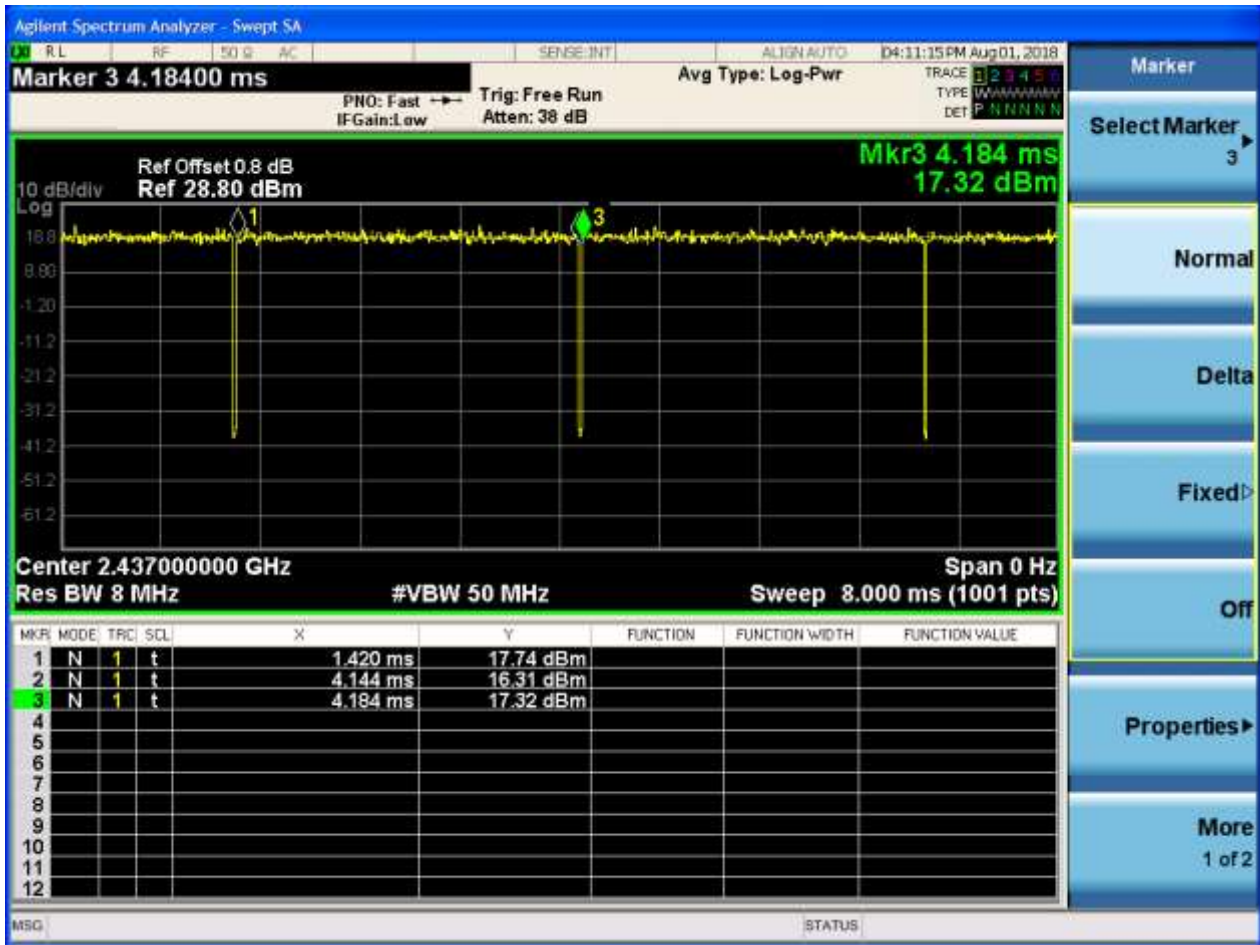


11B_SISO_ANT2





11G_SISO_ANT1





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO D4:24:59 PM Aug 01, 2018

Marker 3 4.27200 ms Avg Type: Log-Pwr

PNO: Fast IF Gain: Low Trig: Free Run Atten: 38 dB

TRACE 1 2 3 4 5 6 TYPE W W W W W W W W DET P N N N N N

Ref Offset 0.8 dB
Ref 28.80 dBm

10 dB/div
Log

**Mkr3 4.272 ms
18.21 dBm**

Center 2.437000000 GHz Span 0 Hz
Res BW 8 MHz #VBW 50 MHz Sweep 8.000 ms (1001 pts)

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.508 ms	17.47 dBm			
2	N	1	t	4.228 ms	17.67 dBm			
3	N	1	t	4.272 ms	18.21 dBm			
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

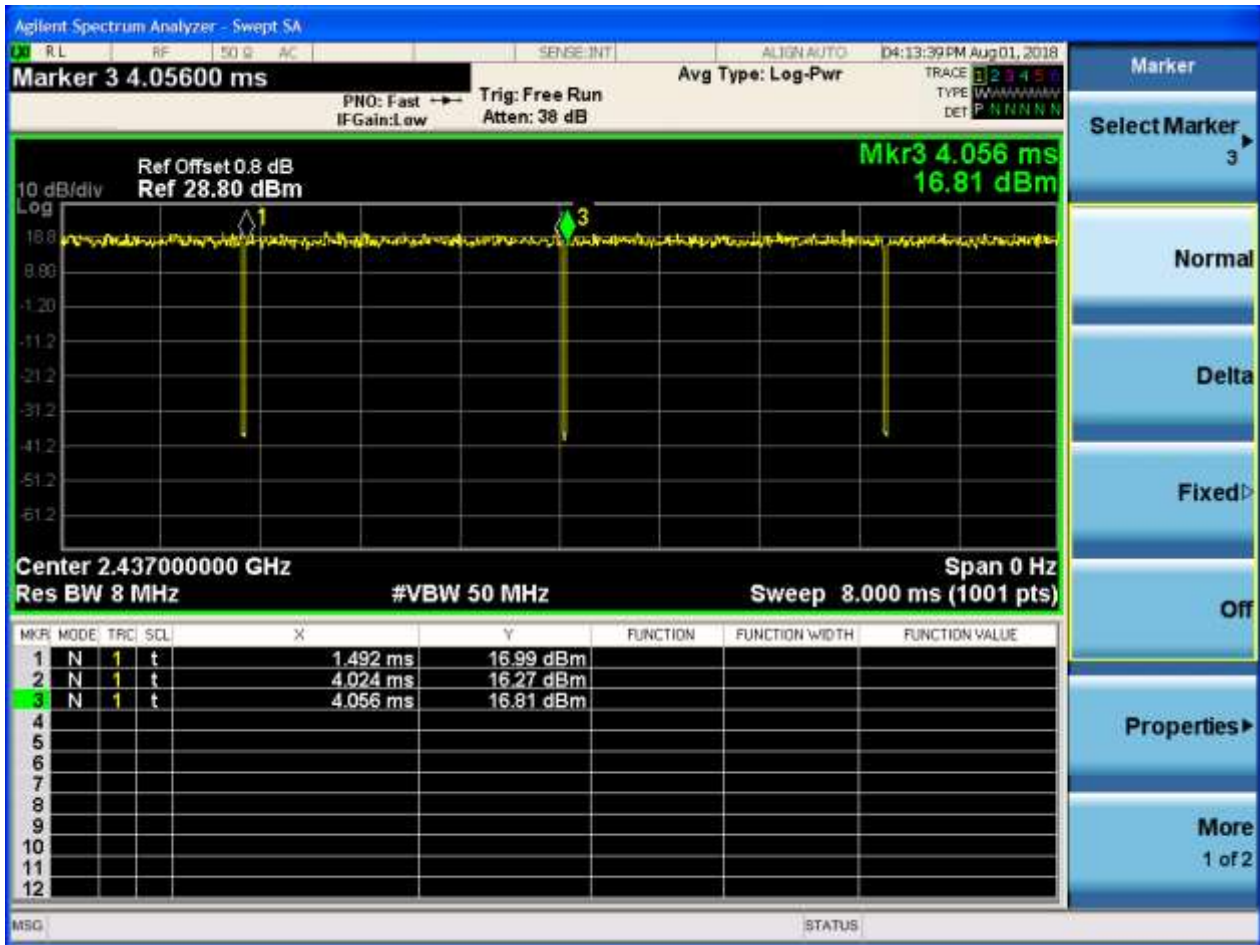
Mkr—CF

Mkr—Ref Lvl

More
1 of 2

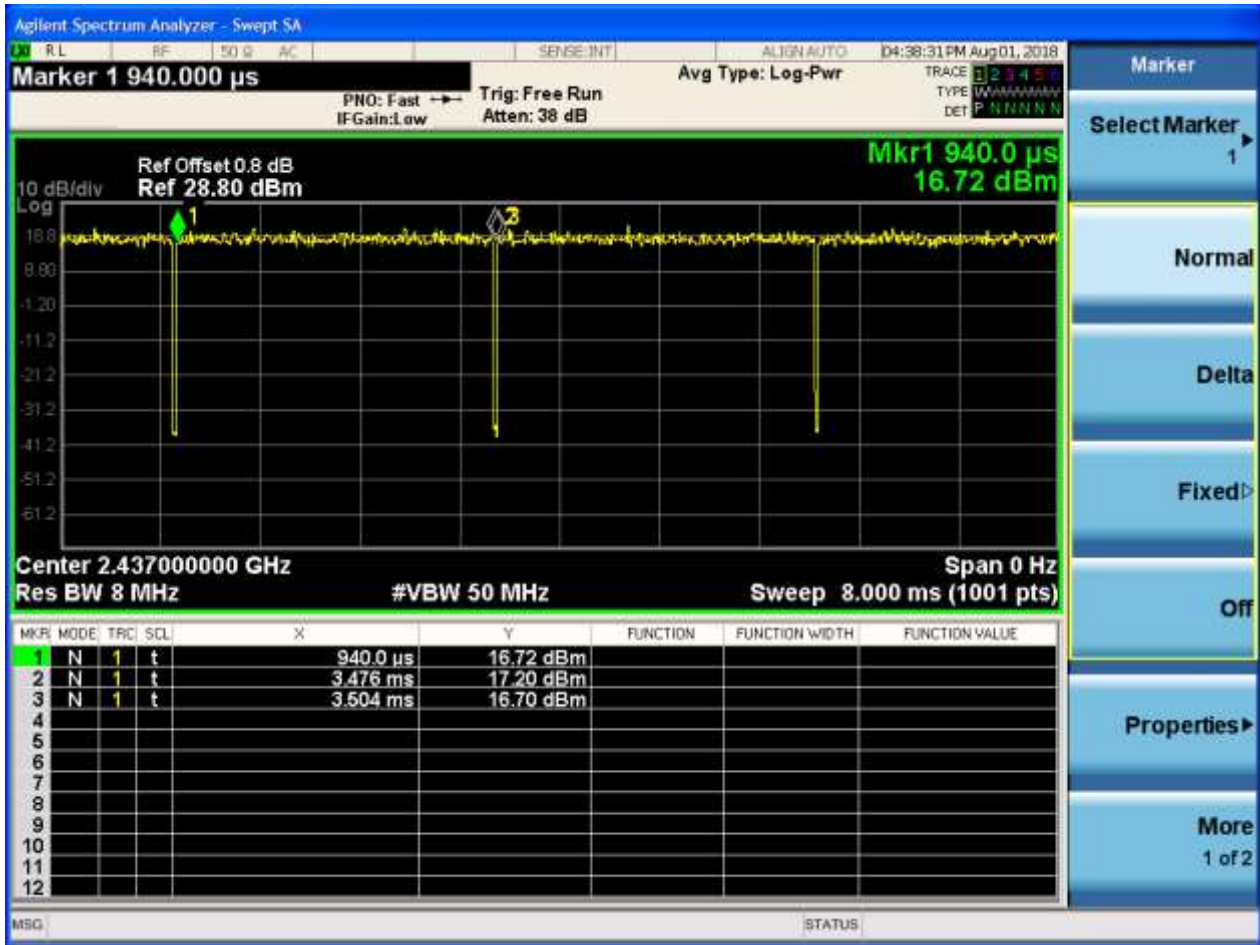


11N20_SISO_ANT1





11N20_SISO _ANT2





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO D4:32:37 PM Aug 01, 2018

Marker 3 3.00800 ms Avg Type: Log-Pwr

PNO: Fast → Trig: Free Run
IFGain: Low Atten: 38 dB

TRACE 1 2 3 4 5
TYPE W W W W W W W
DET P N N N N N

Ref Offset 0.8 dB
Ref 28.80 dBm

**Mkr3 3.008 ms
6.71 dBm**

10 dB/div
Log

Center 2.43700000 GHz
Res BW 8 MHz #VBW 50 MHz Sweep 4.000 ms (1001 pts) Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.732 ms	6.65 dBm			
2	N	1	t	2.972 ms	10.67 dBm			
3	N	1	t	3.008 ms	6.71 dBm			
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

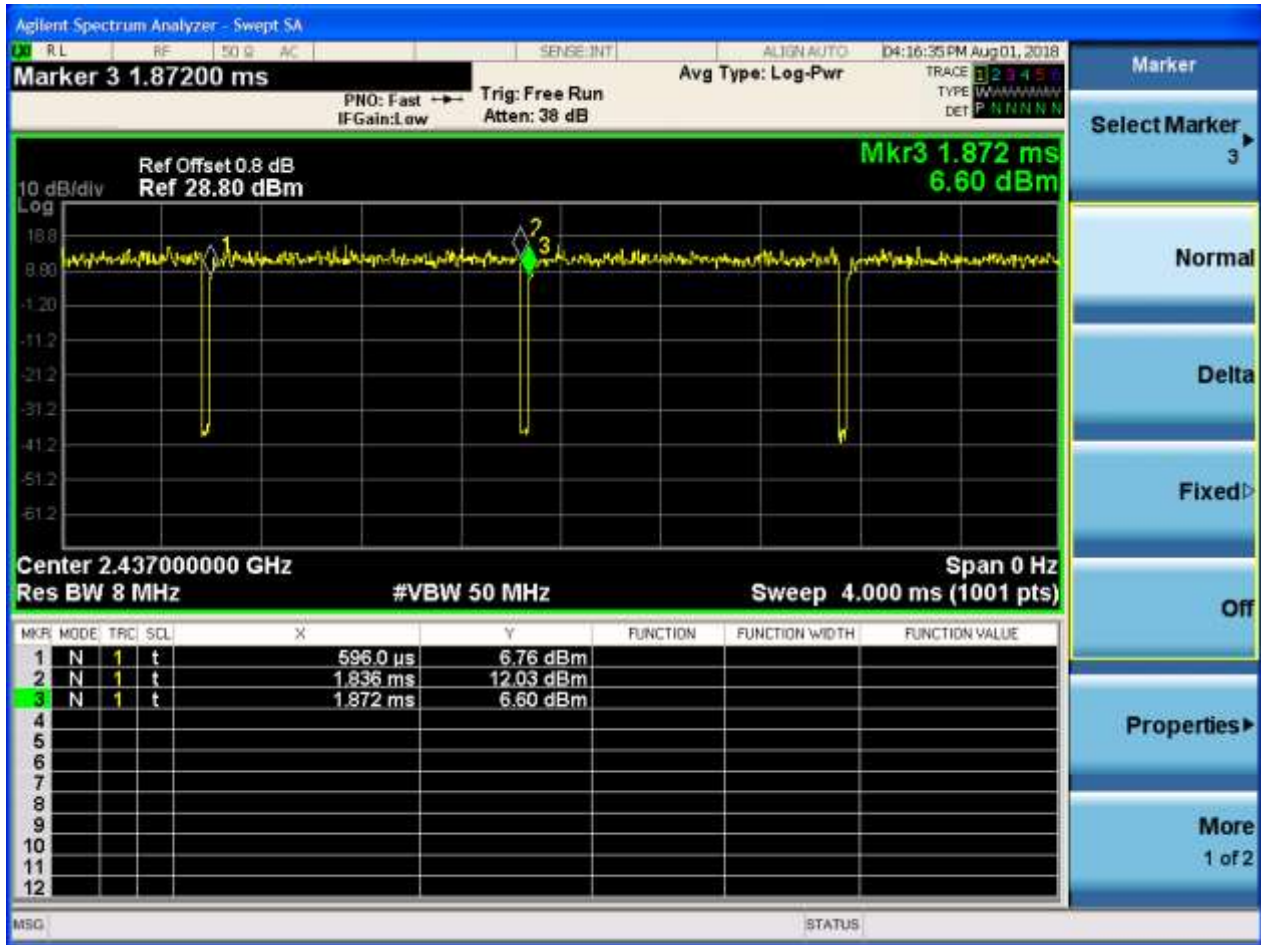
Mkr→CF

Mkr→Ref Lvl

More
1 of 2

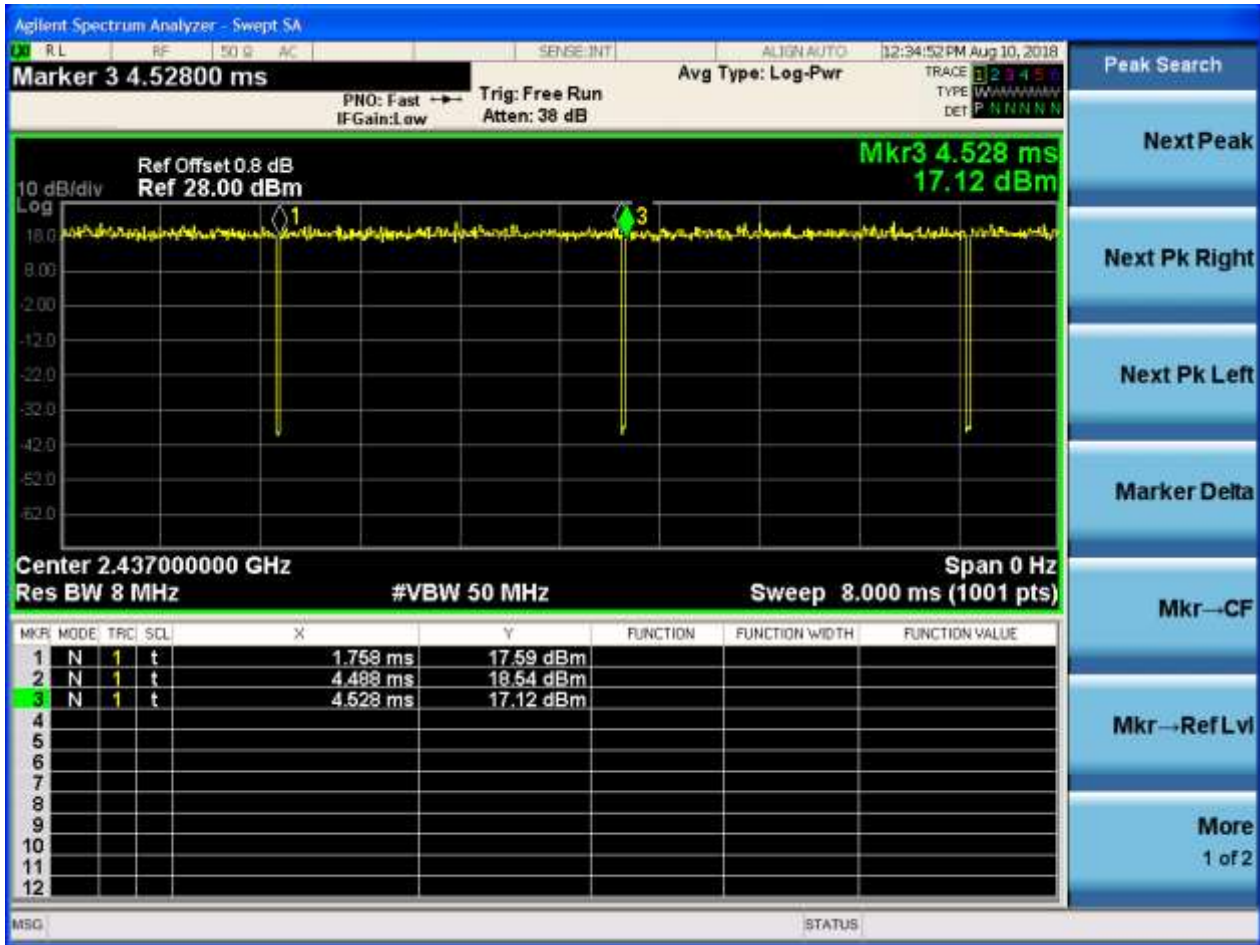


11N40_SISO_ANT1



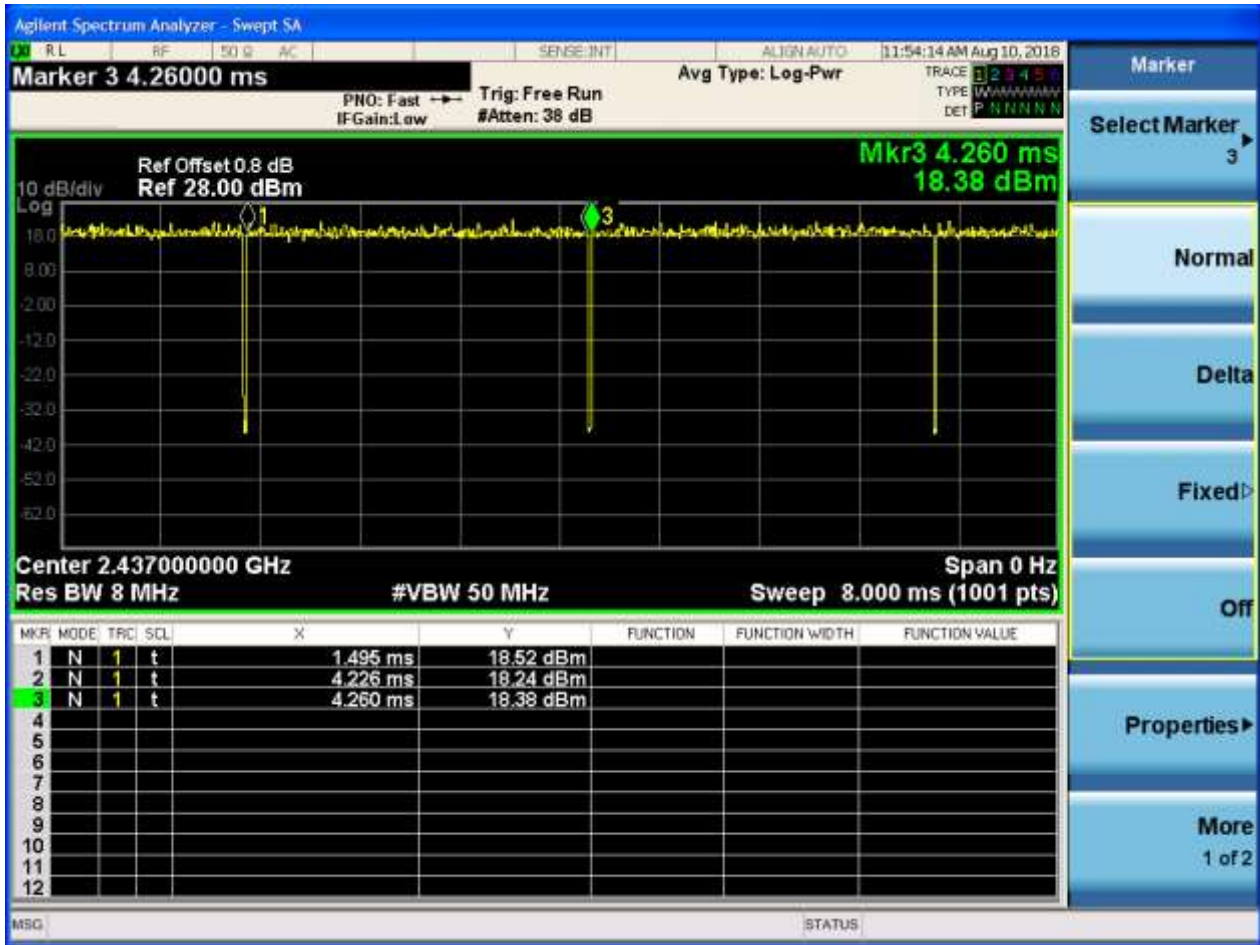


11G_CDD_ANT1



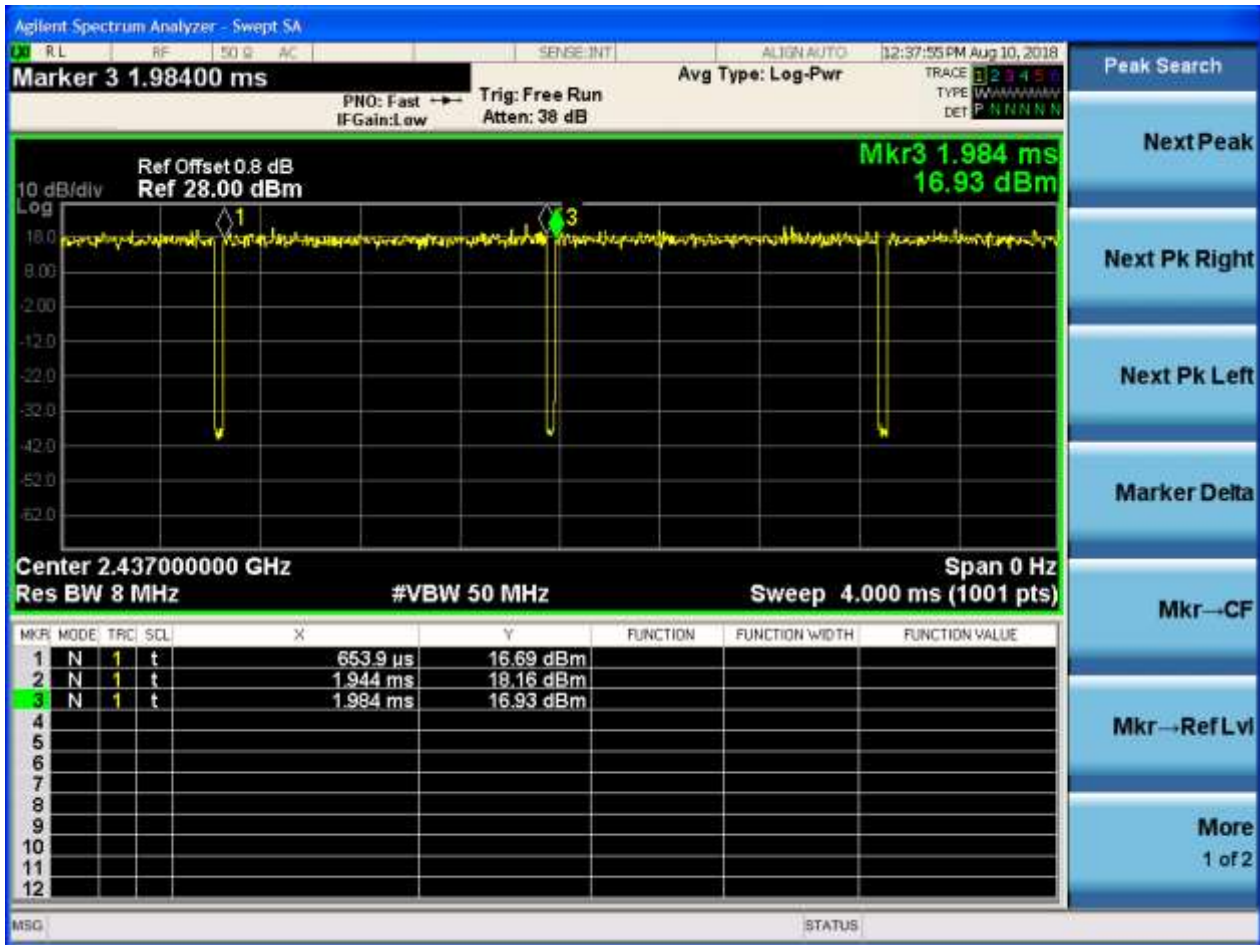


11G_CDD_ANT2





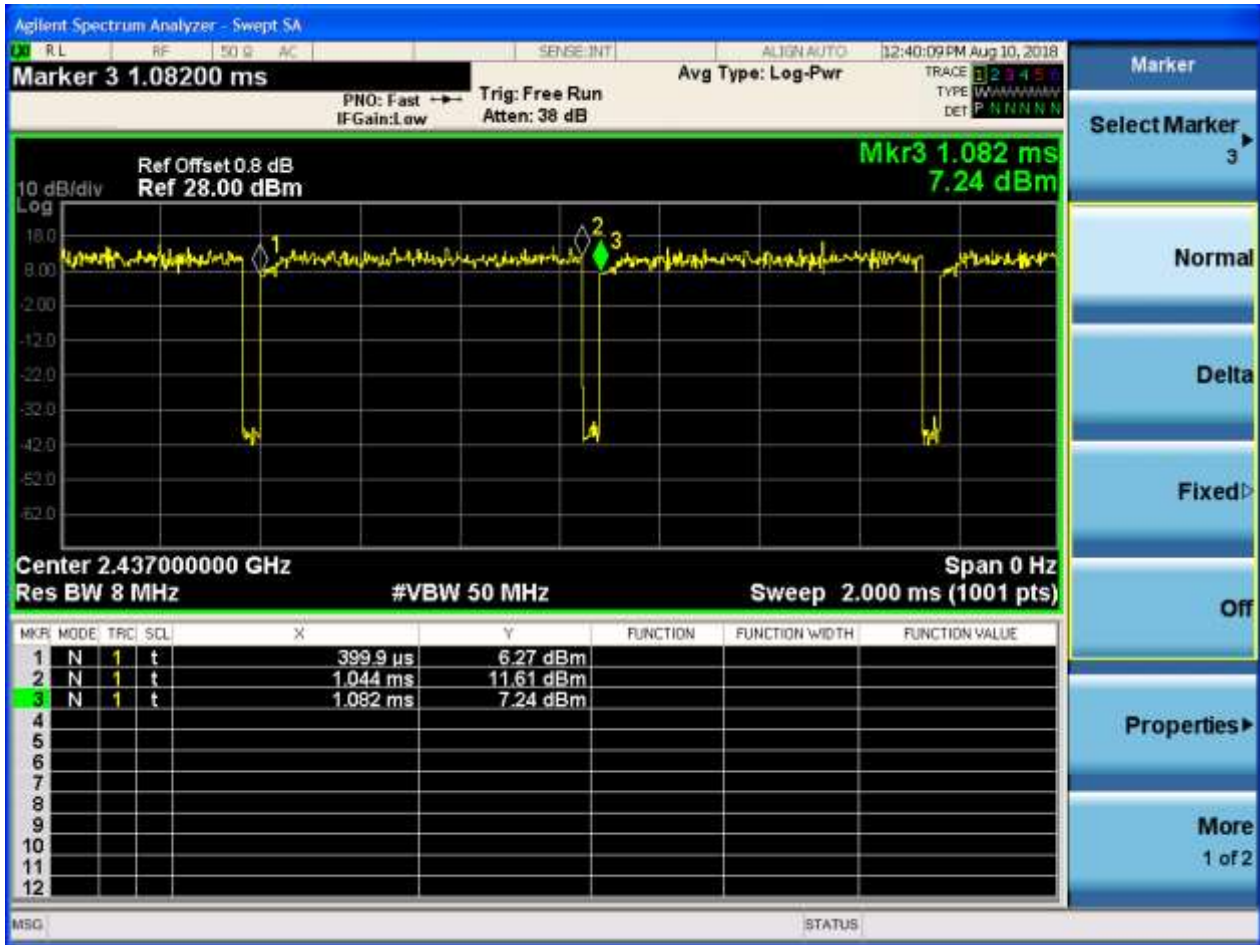
11N20_MIMO_ANT1



[illegible]

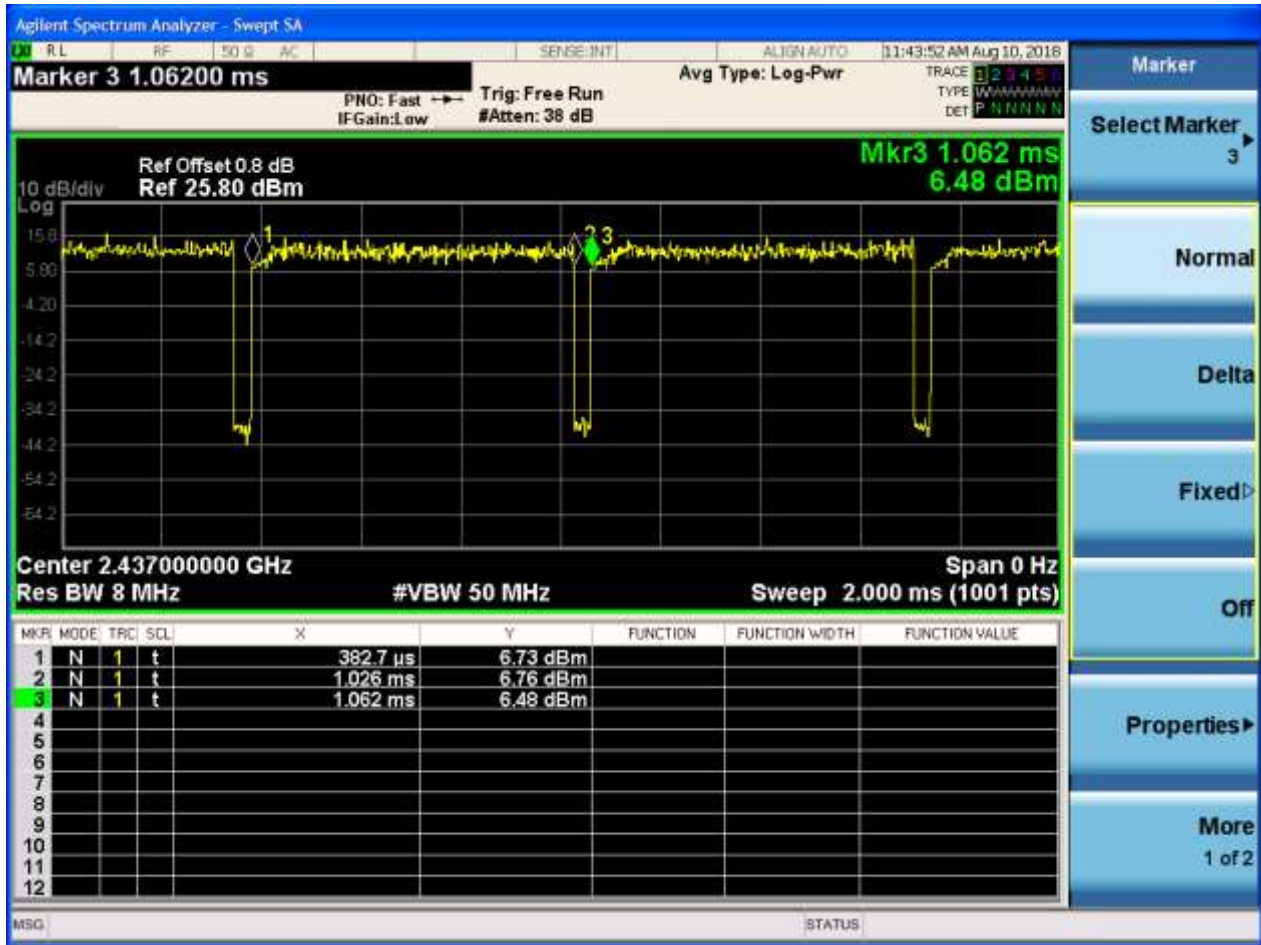


11N40_MIMO_ANT1





11N40_MIMO_ANT2



Appendix D: Maximum Conducted Average Output Power

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	EIRP[dBm]	Verdict
11B	L	2412	Ant 1	99.8	17.19	16	pass
11B	L	2412	Ant 2	99.8	17.85	13.7	pass
11B	M	2437	Ant 1	99.8	16.91	15.72	pass
11B	M	2437	Ant 2	99.8	17.60	13.45	pass
11B	H	2462	Ant 1	99.8	17.10	15.91	pass
11B	H	2462	Ant 2	99.8	17.23	13.08	pass
11G	L	2412	Ant 1	98.6	12.30	11.11	pass
11G	L	2412	Ant 2	98.4	11.98	7.83	pass
11G	L	2417	Ant 1	98.6	15.98	14.79	pass
11G	L	2417	Ant 2	98.4	16.11	11.96	pass
11G	M	2437	Ant 1	98.6	15.94	14.75	pass
11G	M	2437	Ant 2	98.4	16.30	12.15	pass
11G	H	2457	Ant 1	98.6	16.24	15.05	pass
11G	H	2457	Ant 2	98.4	16.22	12.07	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	EIRP[dBm]	Verdict
11G	H	2462	Ant 1	98.6	12.46	11.27	pass
11G	H	2462	Ant 2	98.4	11.78	7.63	pass
11N20	L	2412	Ant 1	98.8	11.95	10.76	pass
11N20	L	2412	Ant 2	98.9	11.44	7.29	pass
11N20	L	2417	Ant 1	98.8	15.00	13.81	pass
11N20	L	2417	Ant 2	98.9	15.14	10.99	pass
11N20	M	2437	Ant 1	98.8	14.82	13.63	pass
11N20	M	2437	Ant 2	98.9	15.16	11.01	pass
11N20	H	2457	Ant 1	98.8	15.16	13.97	pass
11N20	H	2457	Ant 2	98.9	15.21	11.06	pass
11N20	H	2462	Ant 1	98.8	12.14	10.95	pass
11N20	H	2462	Ant 2	98.9	11.44	7.29	pass
11N20m	L	2412	Ant 1	97	11.61	10.42	pass
11N20m	L	2412	Ant 2	96.8	11.70	7.55	pass
11N20m	L	2412	SUM	--	14.67	12.23	pass
11N20m	L	2417	Ant 1	97	14.91	13.72	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	EIRP[dBm]	Verdict
11N20m	L	2417	Ant 2	96.8	15.18	11.03	pass
11N20m	L	2417	SUM	--	18.06	15.59	pass
11N20m	M	2437	Ant 1	97	15.01	13.82	pass
11N20m	M	2437	Ant 2	96.8	15.42	11.27	pass
11N20m	M	2437	SUM	--	18.23	15.74	pass
11N20m	H	2457	Ant 1	97	15.01	13.82	pass
11N20m	H	2457	Ant 2	96.8	15.26	11.11	pass
11N20m	H	2457	SUM	--	18.15	15.68	pass
11N20m	H	2462	Ant 1	97	11.66	10.47	pass
11N20m	H	2462	Ant 2	96.8	11.49	7.34	pass
11N20m	H	2462	SUM	--	14.59	12.19	pass
11N40	L	2422	Ant 1	97.2	10.99	9.8	pass
11N40	L	2422	Ant 2	97.2	10.30	6.15	pass
11N40	L	2427	Ant 1	97.2	13.58	12.39	pass
11N40	L	2427	Ant 2	97.2	13.87	9.72	pass
11N40	M	2437	Ant 1	97.2	13.68	12.49	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	EIRP[dBm]	Verdict
11N40	M	2437	Ant 2	97.2	13.85	9.7	pass
11N40	H	2447	Ant 1	97.2	13.73	12.54	pass
11N40	H	2447	Ant 2	97.2	13.80	9.65	pass
11N40	H	2452	Ant 1	97.2	11.00	9.81	pass
11N40	H	2452	Ant 2	97.2	10.55	6.4	pass
11N40m	L	2422	Ant 1	94.4	9.84	8.65	pass
11N40m	L	2422	Ant 2	94.7	9.62	5.47	pass
11N40m	L	2422	SUM	--	12.74	10.36	pass
11N40m	L	2427	Ant 1	94.4	13.57	12.38	pass
11N40m	L	2427	Ant 2	94.7	14.04	9.89	pass
11N40m	L	2427	SUM	--	16.82	14.32	pass
11N40m	M	2437	Ant 1	94.4	13.77	12.58	pass
11N40m	M	2437	Ant 2	94.7	13.93	9.78	pass
11N40m	M	2437	SUM	--	16.86	14.41	pass
11N40m	H	2447	Ant 1	94.4	13.67	12.48	pass
11N40m	H	2447	Ant 2	94.7	13.93	9.78	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	EIRP[dBm]	Verdict
11N40m	H	2447	SUM	--	16.81	14.35	pass
11N40m	H	2452	Ant 1	94.4	10.11	8.92	pass
11N40m	H	2452	Ant 2	94.7	9.75	5.6	pass
11N40m	H	2452	SUM	--	12.94	10.58	pass
11G CDD	L	2412	Ant 1	98.6	11.94	10.75	pass
11G CDD	L	2412	Ant 2	98.8	11.92	7.77	pass
11G CDD	L	2412	SUM	--	11.94	12.52	pass
11G CDD	L	2417	Ant 1	98.6	15.77	14.58	pass
11G CDD	L	2417	Ant 2	98.8	16.19	12.04	pass
11G CDD	L	2417	SUM	--	19.00	16.50	pass
11G CDD	M	2437	Ant 1	98.6	15.96	14.77	pass
11G CDD	M	2437	Ant 2	98.8	16.39	12.24	pass
11G CDD	M	2437	SUM	--	19.19	16.70	pass
11G CDD	H	2457	Ant 1	98.6	16.06	14.87	pass
11G CDD	H	2457	Ant 2	98.8	16.17	12.02	pass
11G CDD	H	2457	SUM	--	19.13	16.69	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	EIRP[dBm]	Verdict
11G CDD	H	2462	Ant 1	98.6	11.86	10.67	pass
11G CDD	H	2462	Ant 2	98.8	11.78	7.63	pass
11G CDD	H	2462	SUM	--	14.83	10.67	pass



Part II - Test Plots

2.1 11B_L_2412@Ant 1





2.2 11B_L_2412@Ant 2





2.3 11B_M_2437@Ant 1





2.4 11B_M_2437@Ant 2





2.5 11B_H_2462@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .01 dB added.

Center Freq 2.46200000 GHz

#Avg Type: RMS
Avg/Hold: 500/500

Trace 1 2 3 4 5
Type A W W W W W W W
Det A A A A A A

PNO: Wide → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 1.01 dB
Ref 30.00 dBm

Mkr1 2.462 00 GHz
Band Power 17.227 dBm

Start 2.44200 GHz
#Res BW 200 kHz

Stop 2.48200 GHz
Sweep 1.24 ms (601 pts)

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.462 00 GHz	-5.893 dBm	Band Power	11.87 MHz	17.227 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

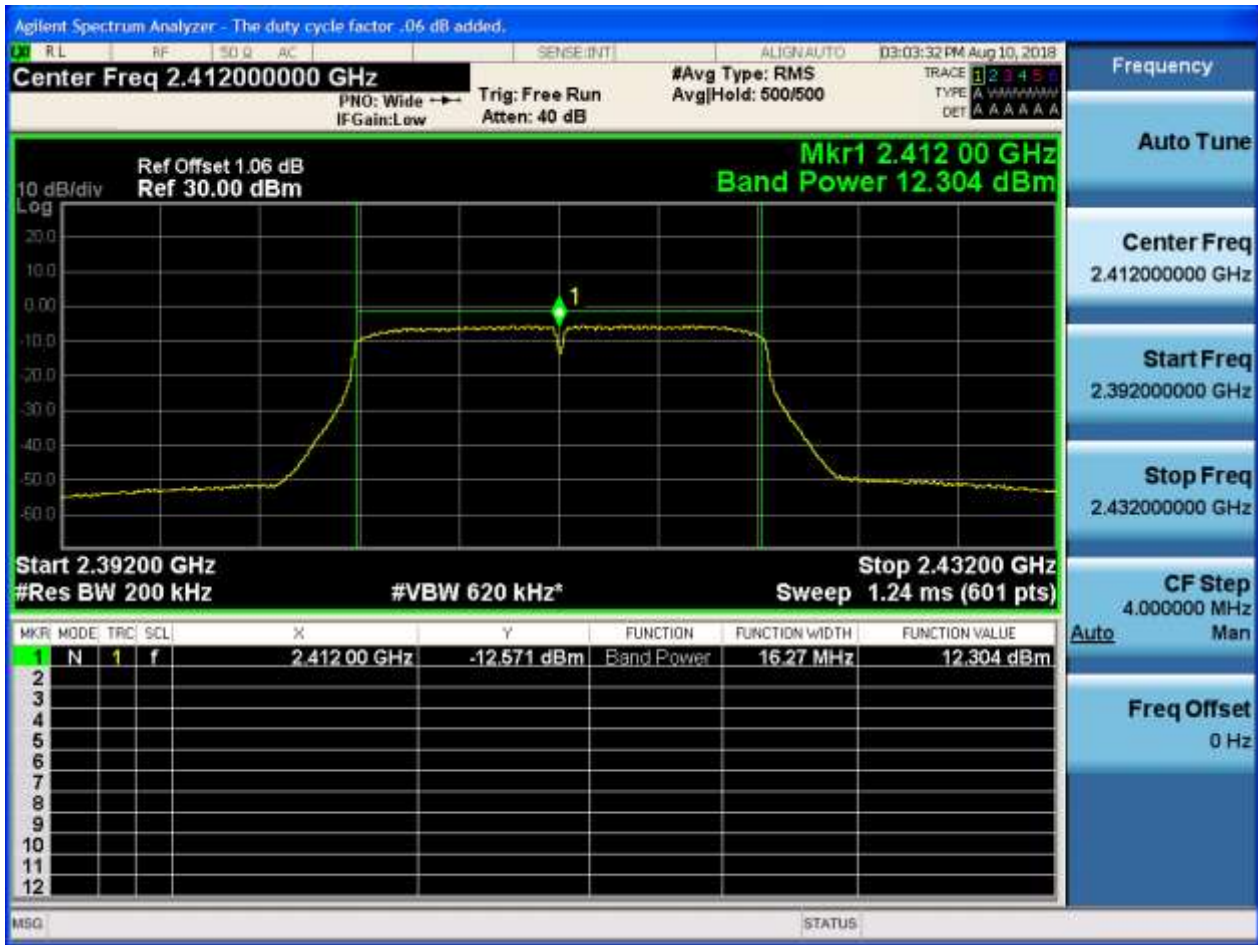
CF Step
4.000000 MHz
Man

Auto

Freq Offset
0 Hz



2.7 11G_L_2412@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .07 dB added.

Center Freq 2.41200000 GHz

#Avg Type: RMS
Avg|Hold: 500/500

Trace 1 2 3 4 5
Type A W W W W W
Det A A A A A

PNO: Wide → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 1.07 dB
Ref 30.00 dBm

Mkr1 2.412 00 GHz
Band Power 11.979 dBm

Start 2.39200 GHz
#Res BW 200 kHz

Stop 2.43200 GHz
Sweep 1.24 ms (601 pts)

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.412 00 GHz	-12.813 dBm	Band Power	16.27 MHz	11.979 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq
2.41200000 GHz

Start Freq
2.39200000 GHz

Stop Freq
2.43200000 GHz

CF Step
4.000000 MHz
Man

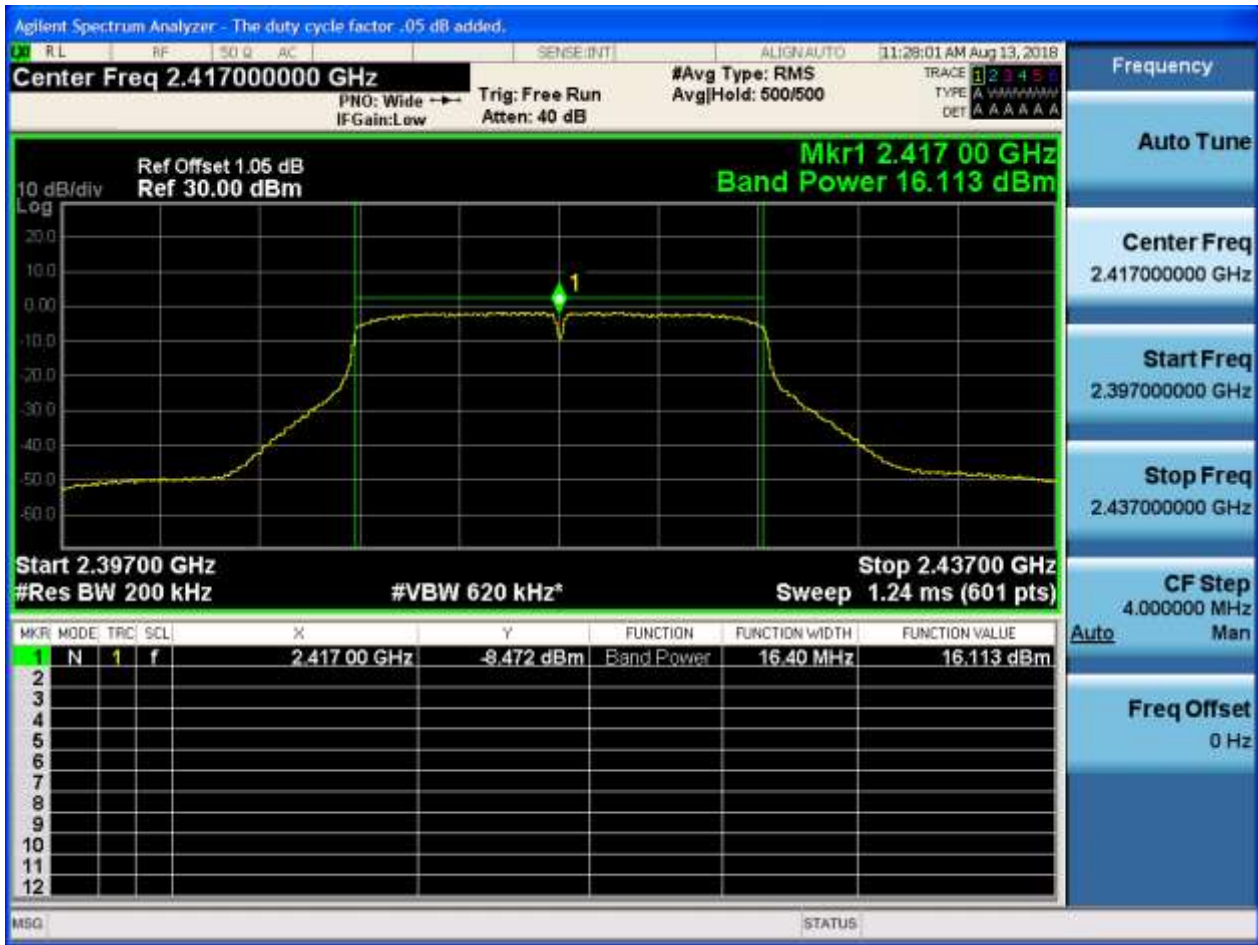
Auto

Freq Offset
0 Hz

MSG STATUS



2.10 11G_L_2417@Ant 2



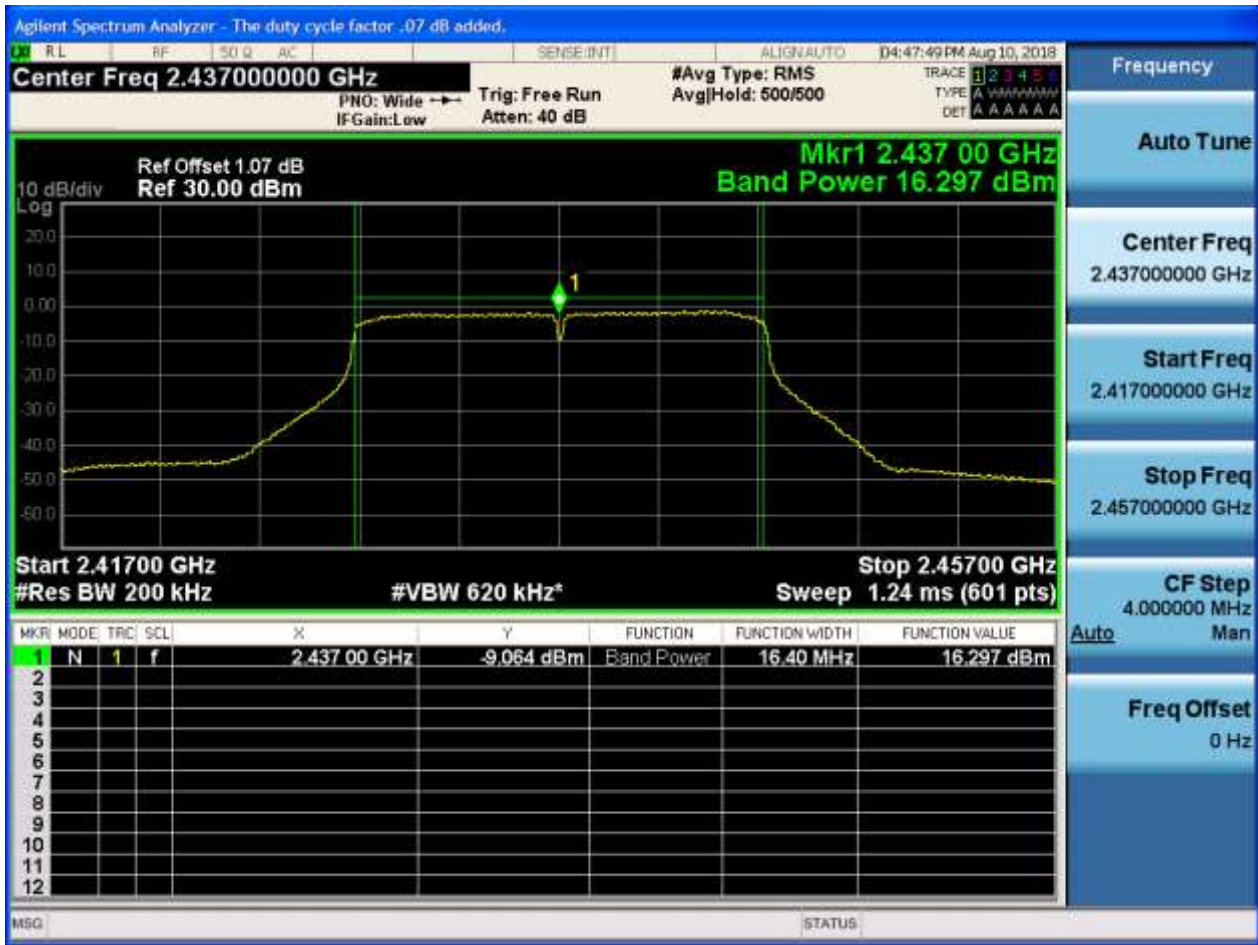


2.11 11G_M_2437@Ant 1





2.12 11G_M_2437@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .06 dB added.

Center Freq 2.45700000 GHz

#Avg Type: RMS
Avg/Hold: 500/500

Trace 1 2 3 4 5
Type A W W W W W W W
Det A A A A A A

PNO: Wide → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 1.06 dB
Ref 30.00 dBm

Mkr1 2.457 00 GHz
Band Power 16.244 dBm

Start 2.43700 GHz
#Res BW 200 kHz

Stop 2.47700 GHz
Sweep 1.24 ms (601 pts)

#VBW 620 kHz*

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.457 00 GHz	-9.957 dBm	Band Power	16.40 MHz	16.244 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq
2.45700000 GHz

Start Freq
2.43700000 GHz

Stop Freq
2.47700000 GHz

CF Step
4.000000 MHz
Man

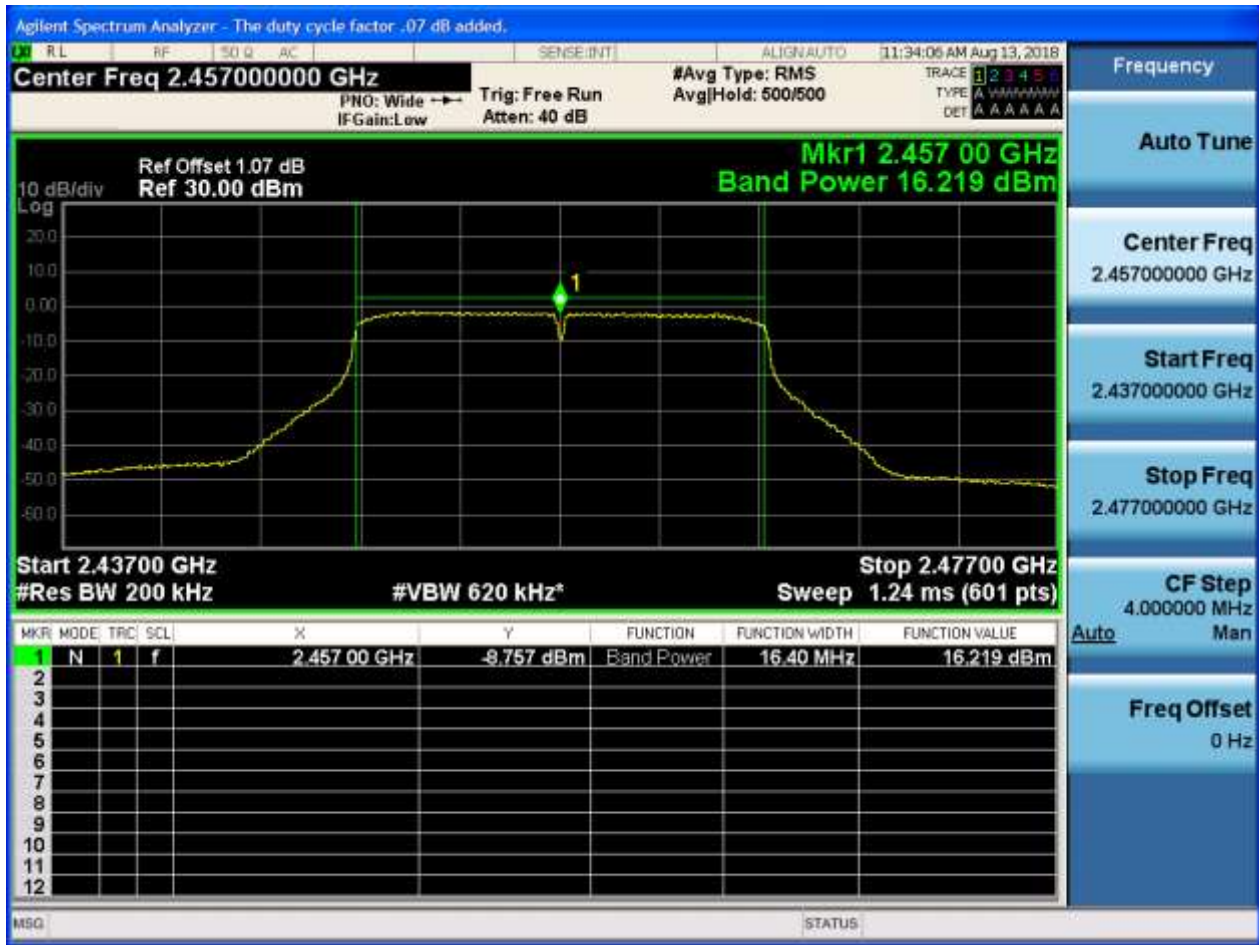
Auto

Freq Offset
0 Hz

MSG STATUS

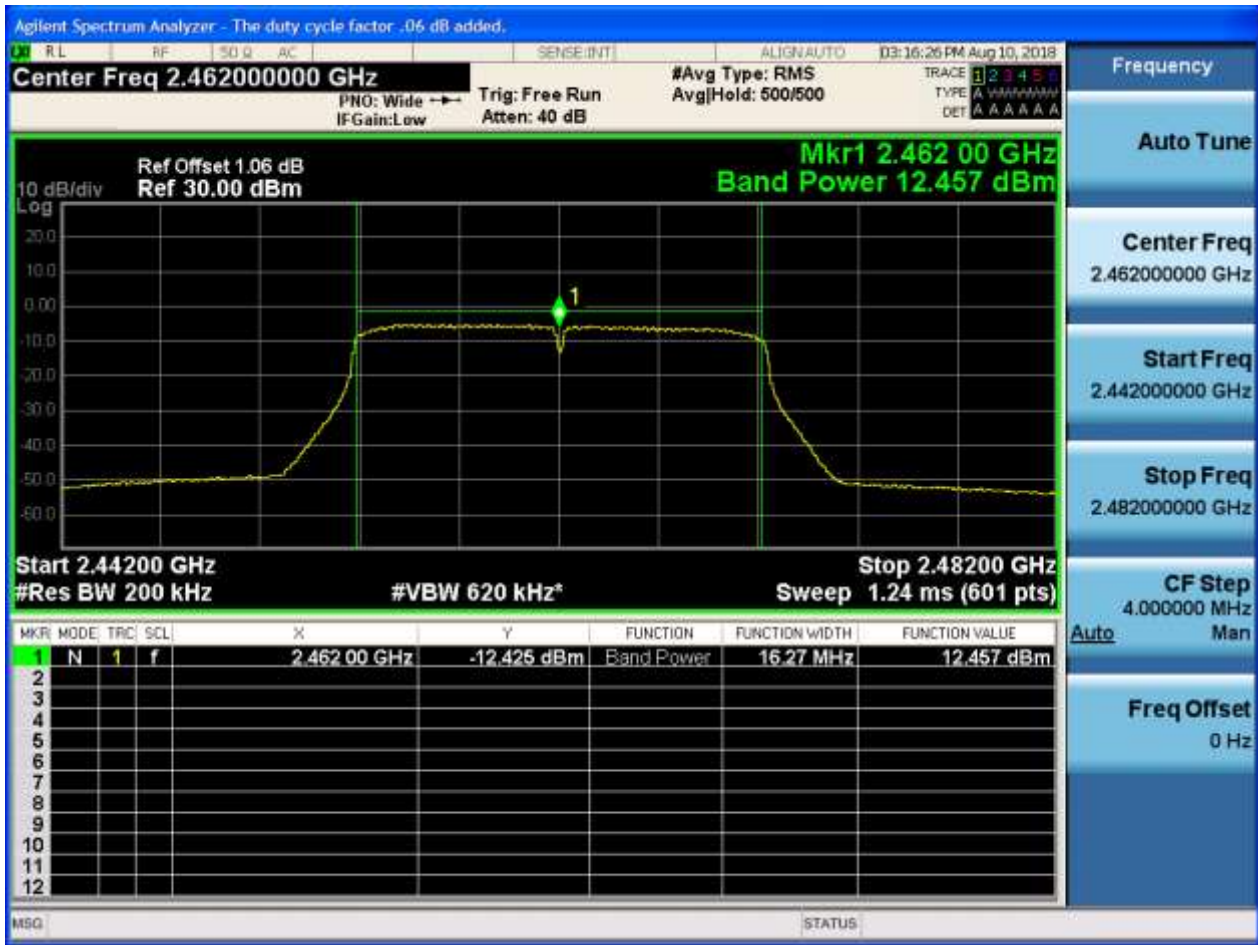


2.14 11G_H_2457@Ant 2



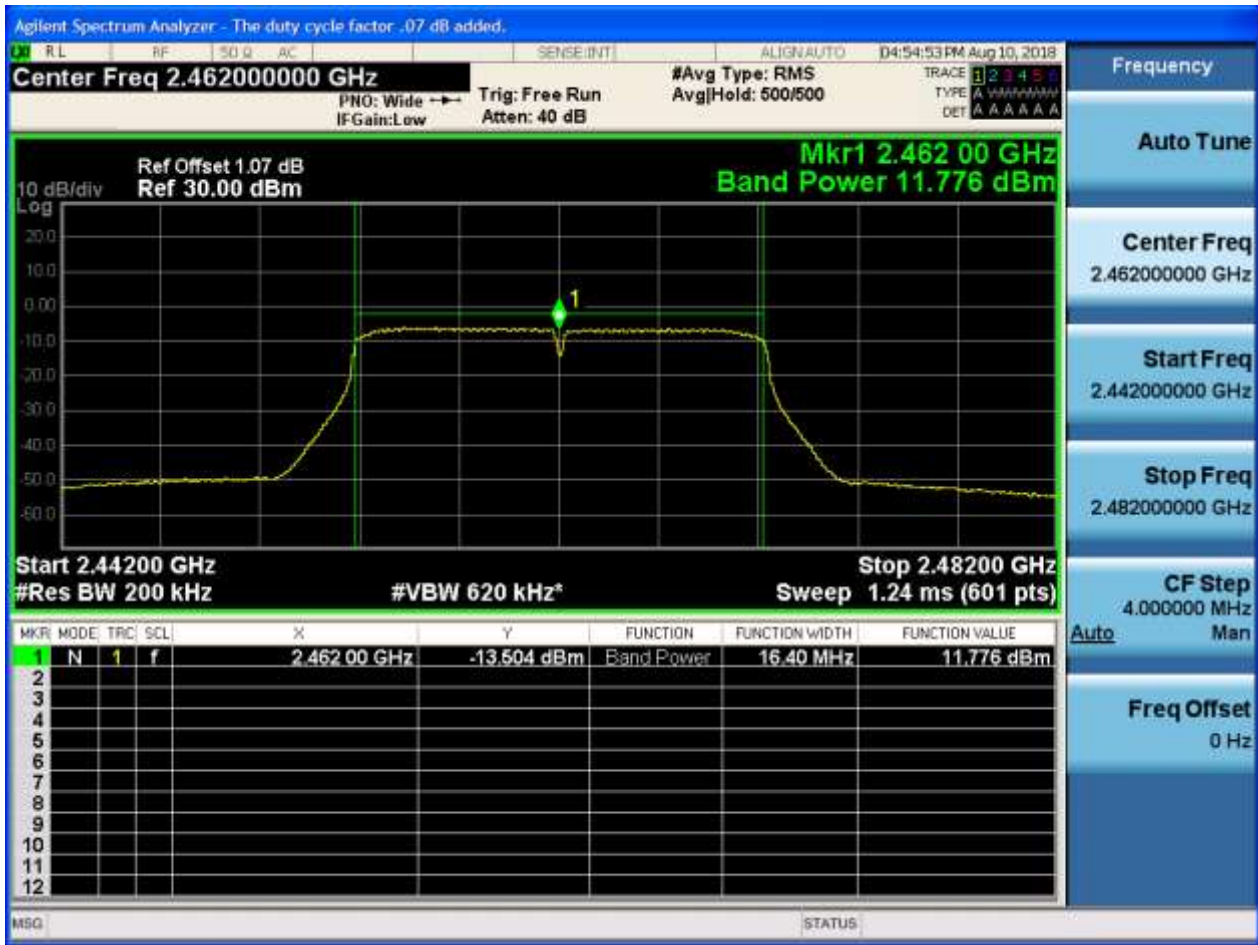


2.15 11G_H_2462@Ant 1





2.16 11G_H_2462@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .06 dB added.

Center Freq 2.41200000 GHz

#Avg Type: RMS
Avg/Hold: 500/500

Ref Offset 1.06 dB
Ref 30.00 dBm

Mkr1 2.412 00 GHz
Band Power 11.952 dBm

Start 2.39200 GHz
#Res BW 200 kHz

Stop 2.43200 GHz
Sweep 1.24 ms (601 pts)

#VBW 620 kHz*

10 dB/div
Log

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.412 00 GHz	-13.116 dBm	Band Power	17.47 MHz	11.952 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq
2.41200000 GHz

Start Freq
2.39200000 GHz

Stop Freq
2.43200000 GHz

CF Step
4.000000 MHz
Man

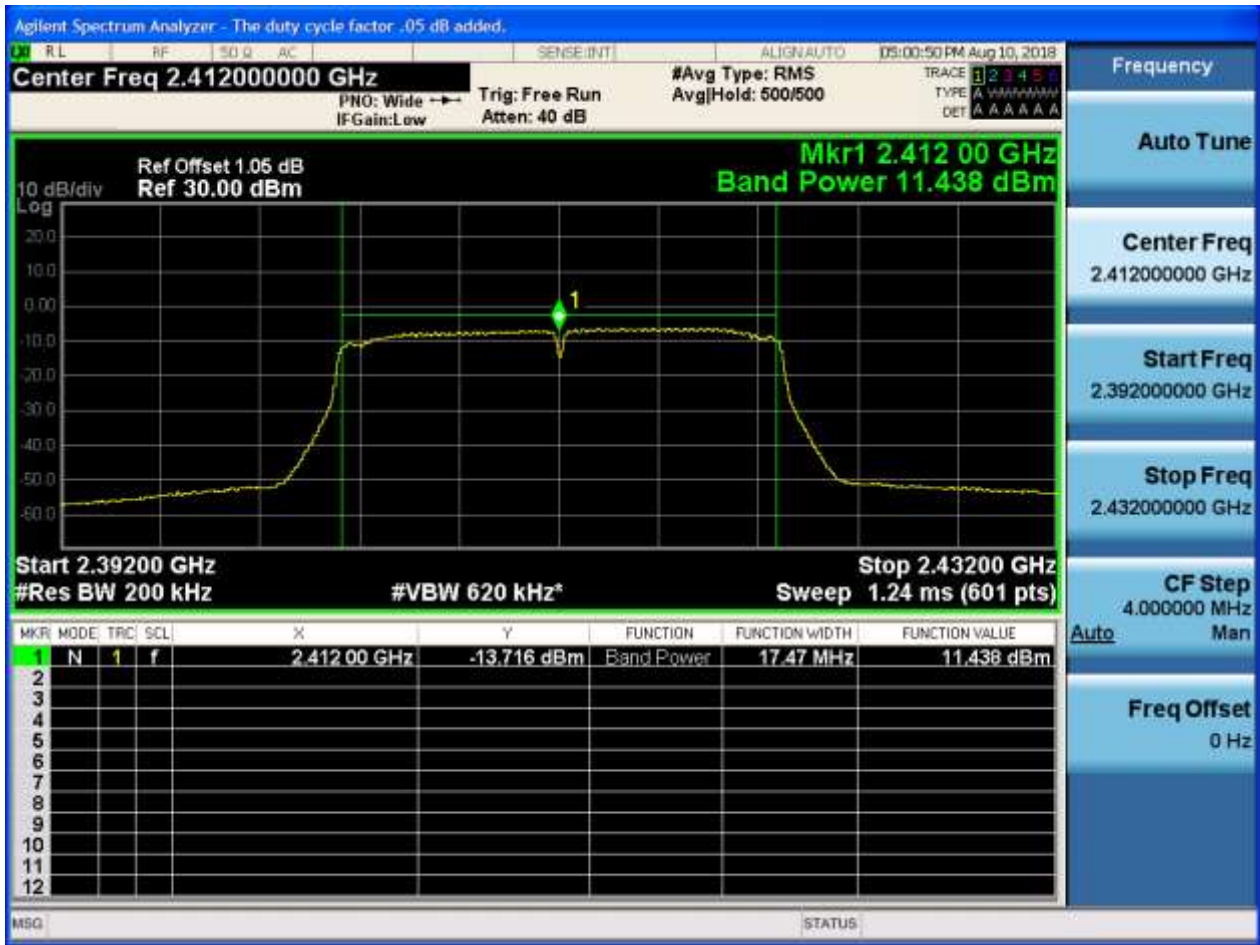
Freq Offset
0 Hz

MSG

STATUS

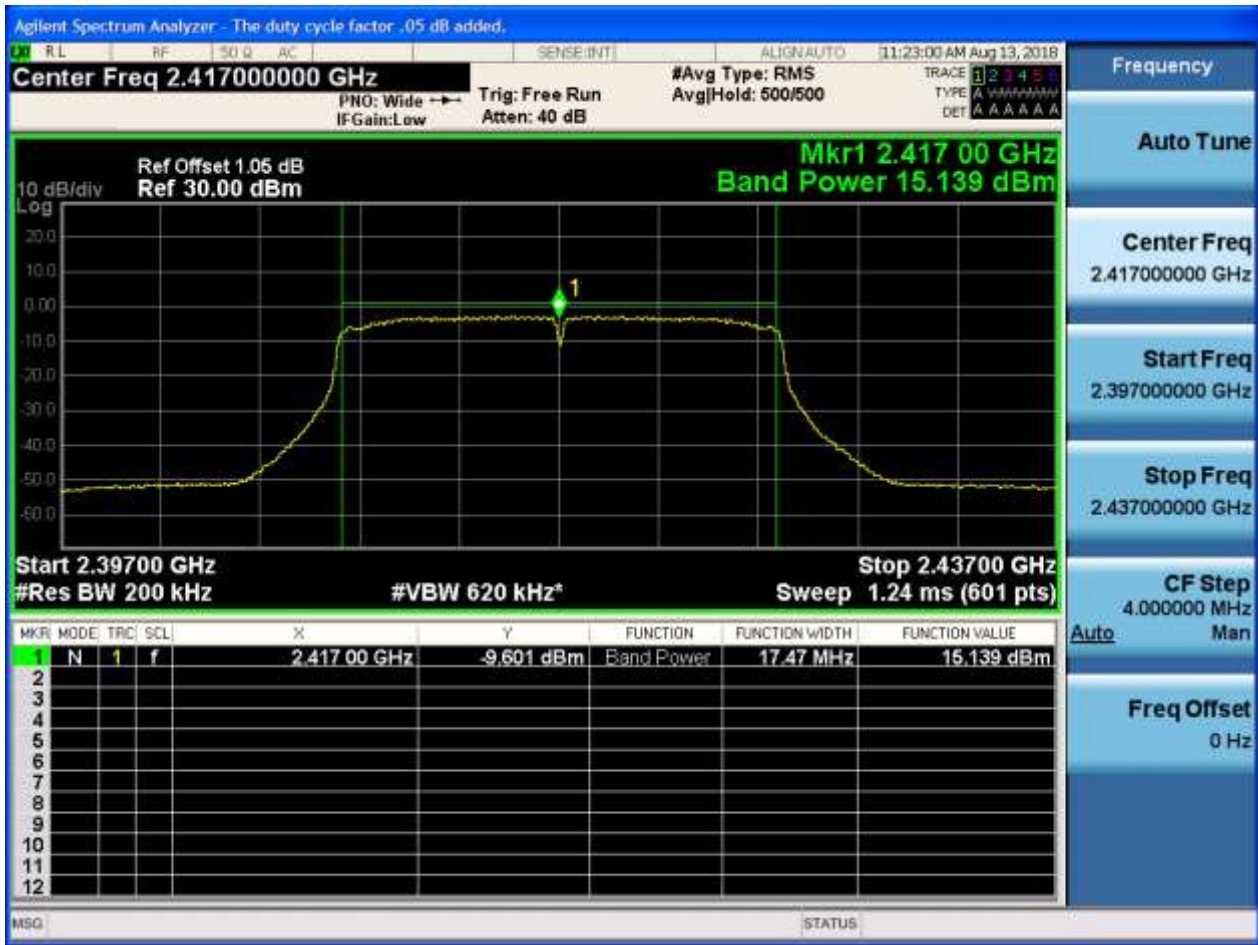


2.18 11N20_L_2412@Ant 2



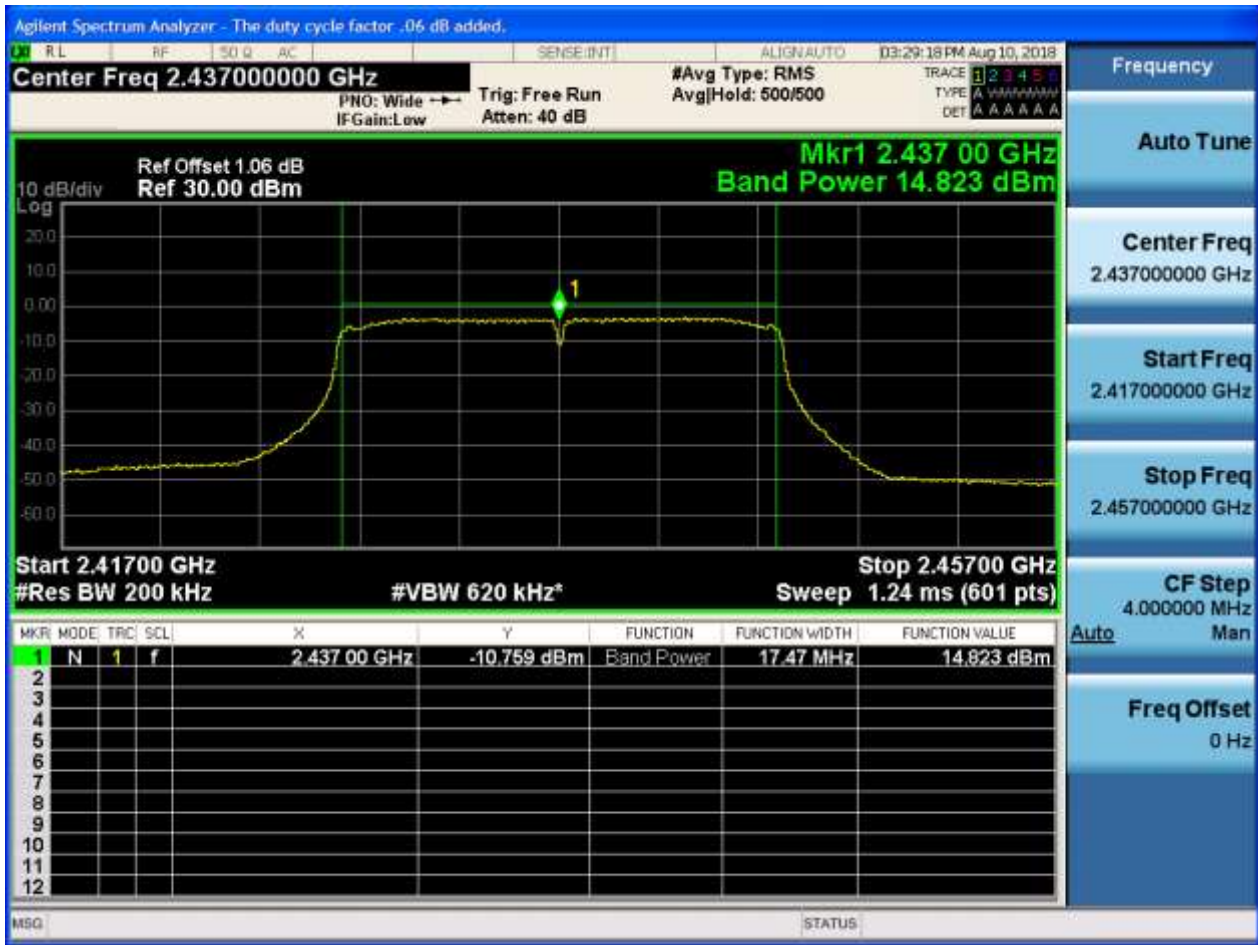


2.20 11N20_L_2417@Ant 2



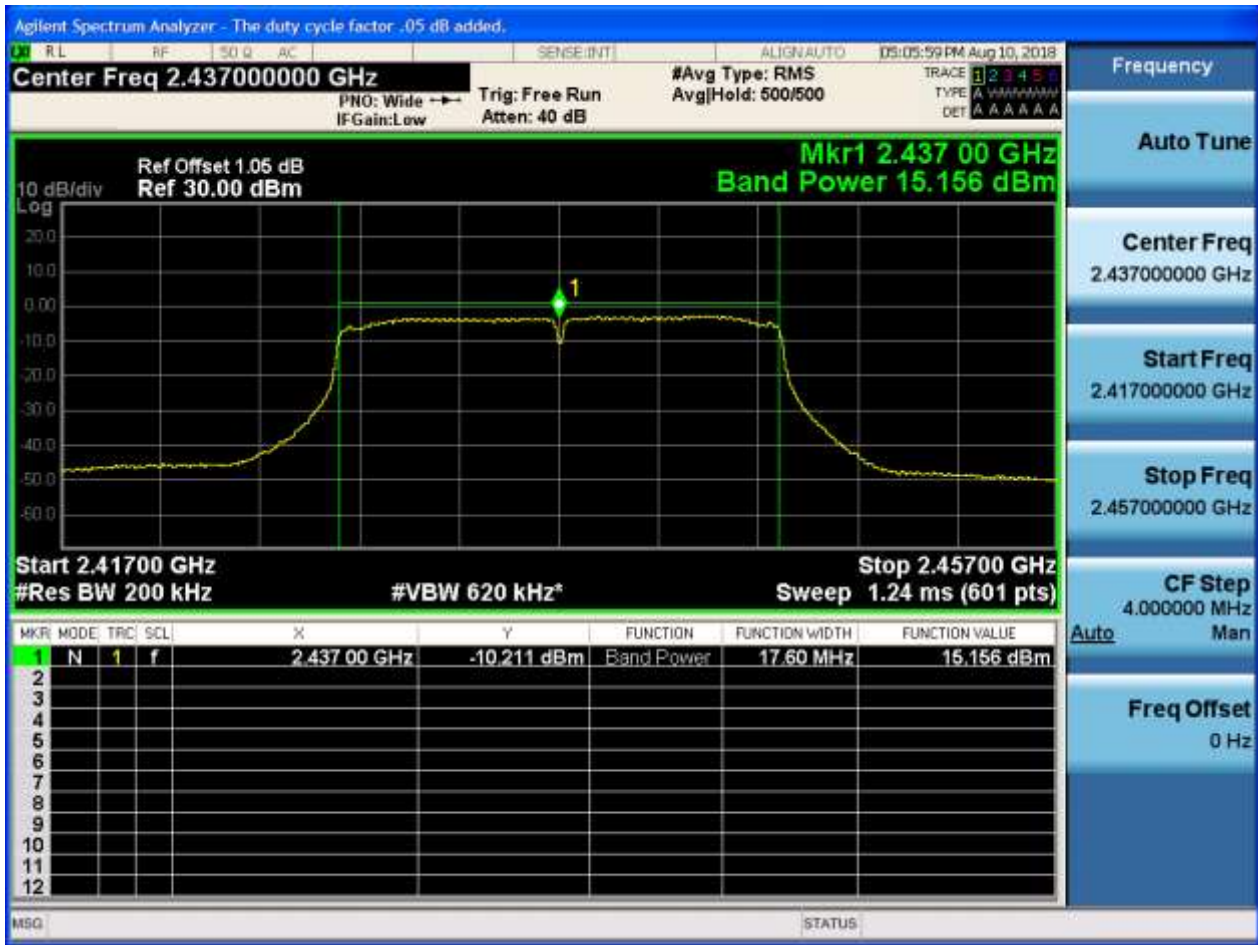


2.21 11N20_M_2437@Ant 1





2.22 11N20_M_2437@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .13 dB added.

Center Freq 2.45700000 GHz

#Avg Type: RMS
Avg/Hold: 500/500

Trace 1 2 3 4 5
Type A W W W W W W W
Det A A A A A A

PNO: Wide → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 1.13 dB
Ref 30.00 dBm

Mkr1 2.457 00 GHz
Band Power 15.160 dBm

Start 2.43700 GHz
#Res BW 200 kHz

Stop 2.47700 GHz
Sweep 1.24 ms (601 pts)

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.457 00 GHz	-9.895 dBm	Band Power	17.47 MHz	15.160 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq
2.45700000 GHz

Start Freq
2.43700000 GHz

Stop Freq
2.47700000 GHz

CF Step
4.000000 MHz
Man

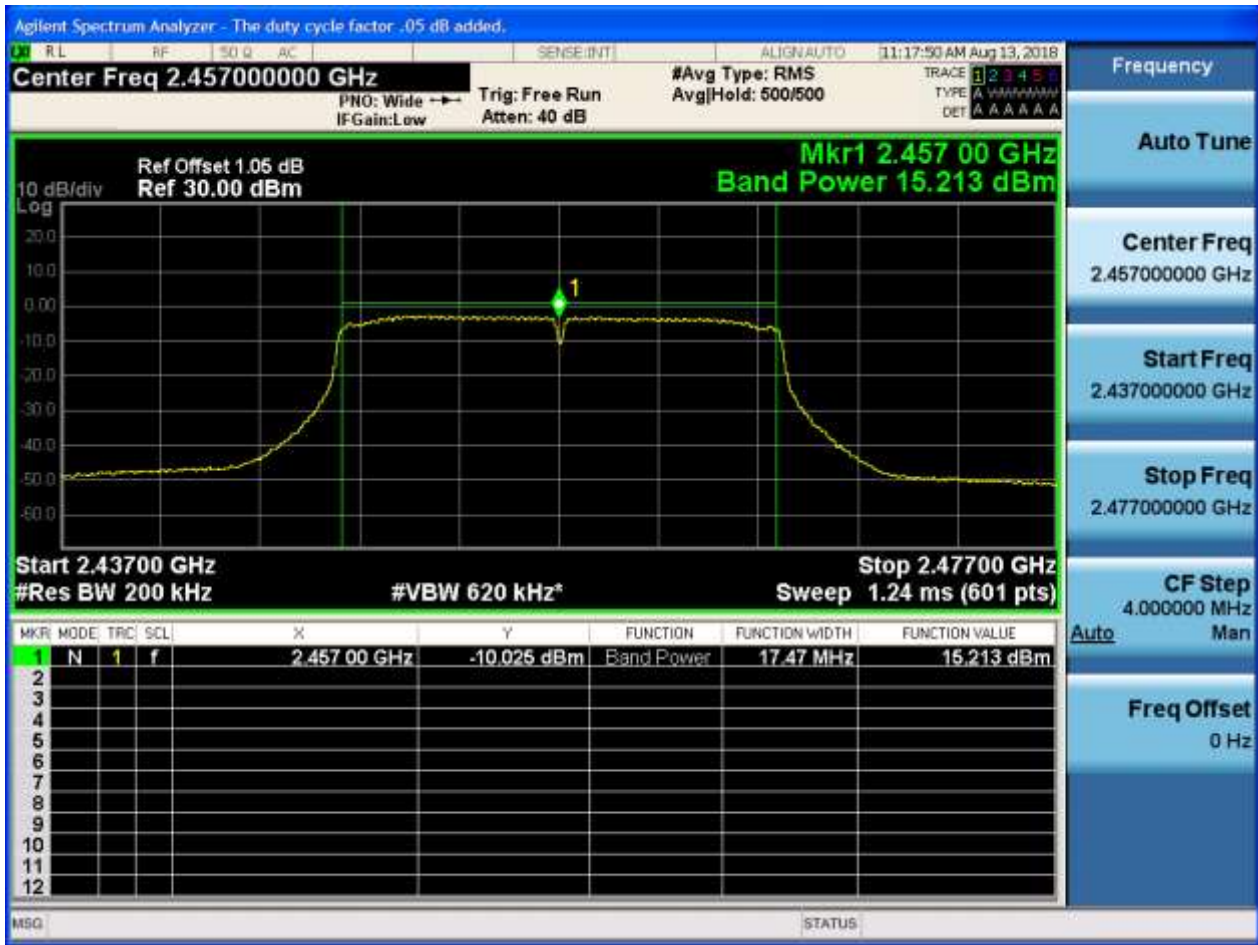
Auto

Freq Offset
0 Hz

MSG STATUS

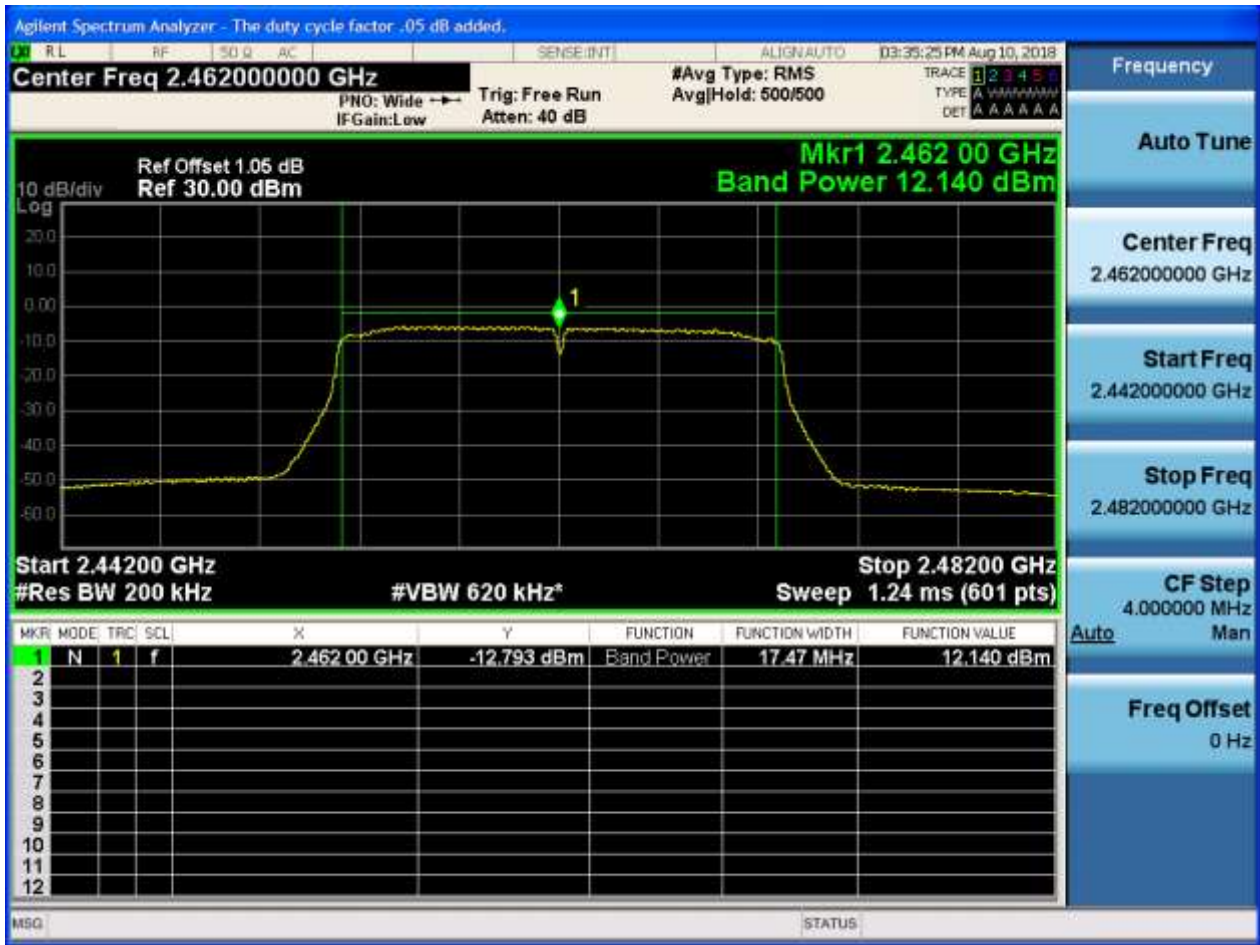


2.24 11N20_H_2457@Ant 2



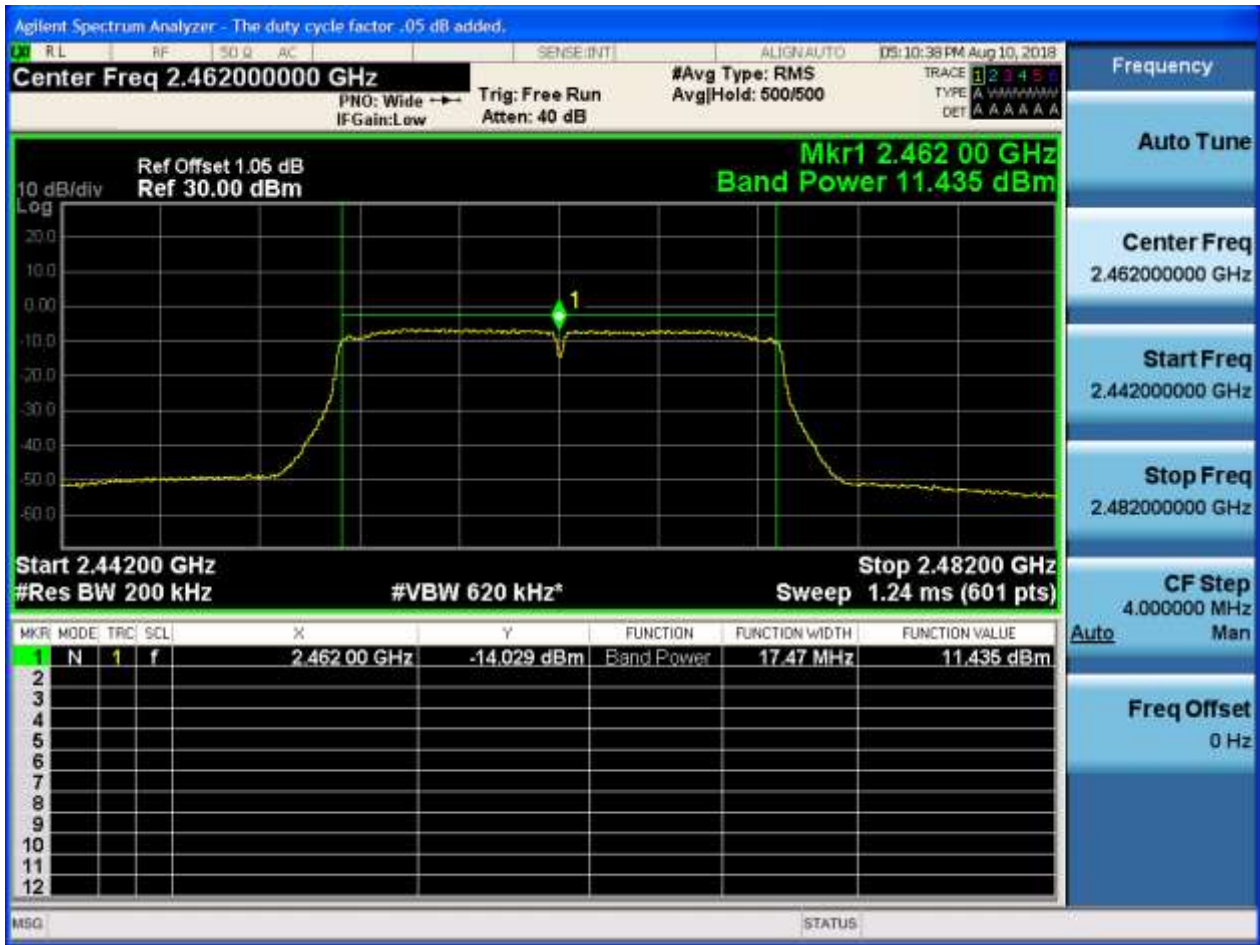


2.25 11N20_H_2462@Ant 1





2.26 11N20_H_2462@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .13 dB added.

Center Freq 2.41200000 GHz

#Avg Type: RMS
Avg/Hold: 500/500

Trace 1 2 3 4 5
Type A W W W W W W
Det A A A A A A

PNO: Wide → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 1.13 dB
Ref 30.00 dBm

Mkr1 2.412 00 GHz
Band Power 11.605 dBm

Start 2.39200 GHz
#Res BW 200 kHz

Stop 2.43200 GHz
Sweep 1.24 ms (601 pts)

#VBW 620 kHz*

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.412 00 GHz	-13.416 dBm	Band Power	17.33 MHz	11.605 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq
2.41200000 GHz

Start Freq
2.39200000 GHz

Stop Freq
2.43200000 GHz

CF Step
4.000000 MHz
Man

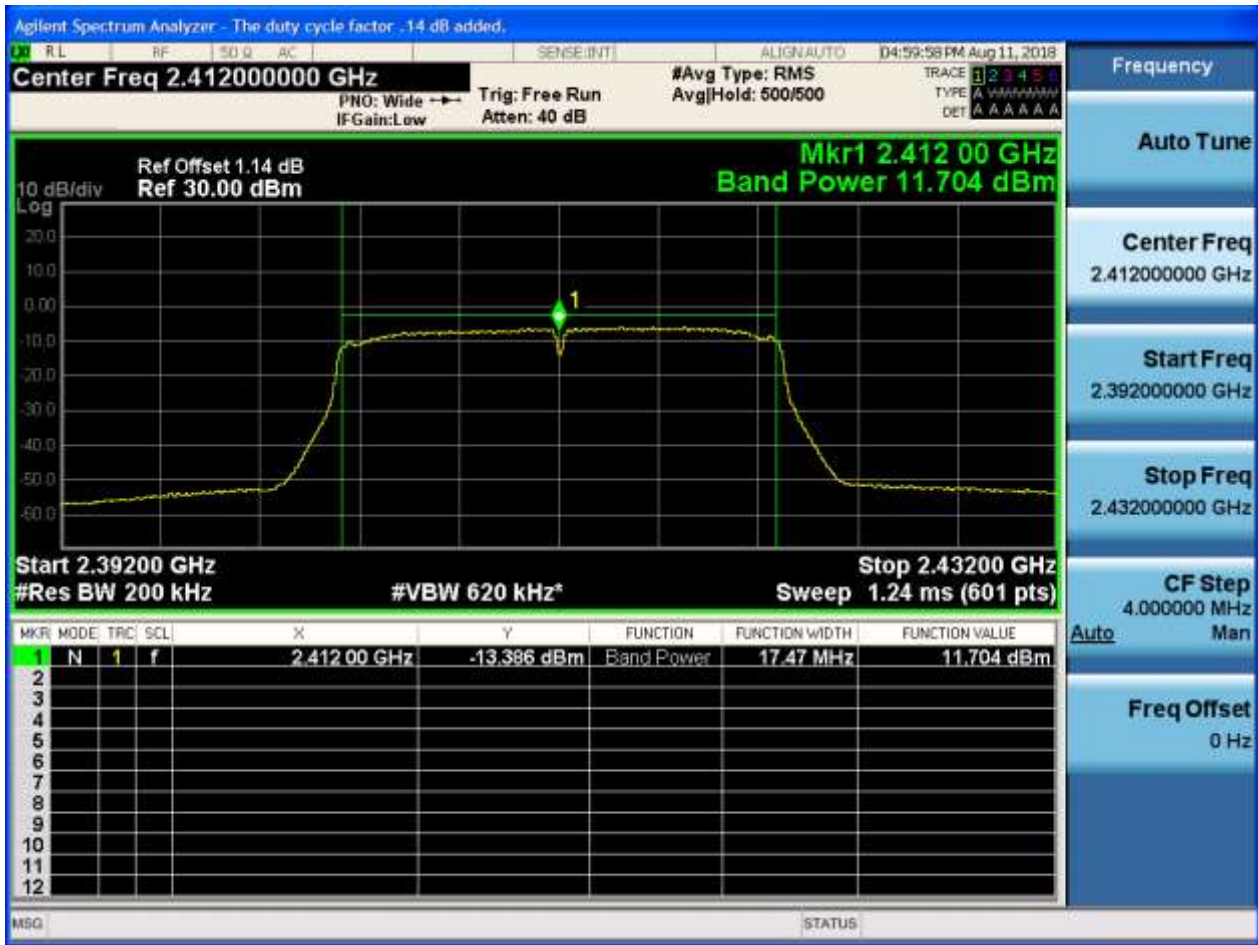
Freq Offset
0 Hz

Auto

MSG STATUS

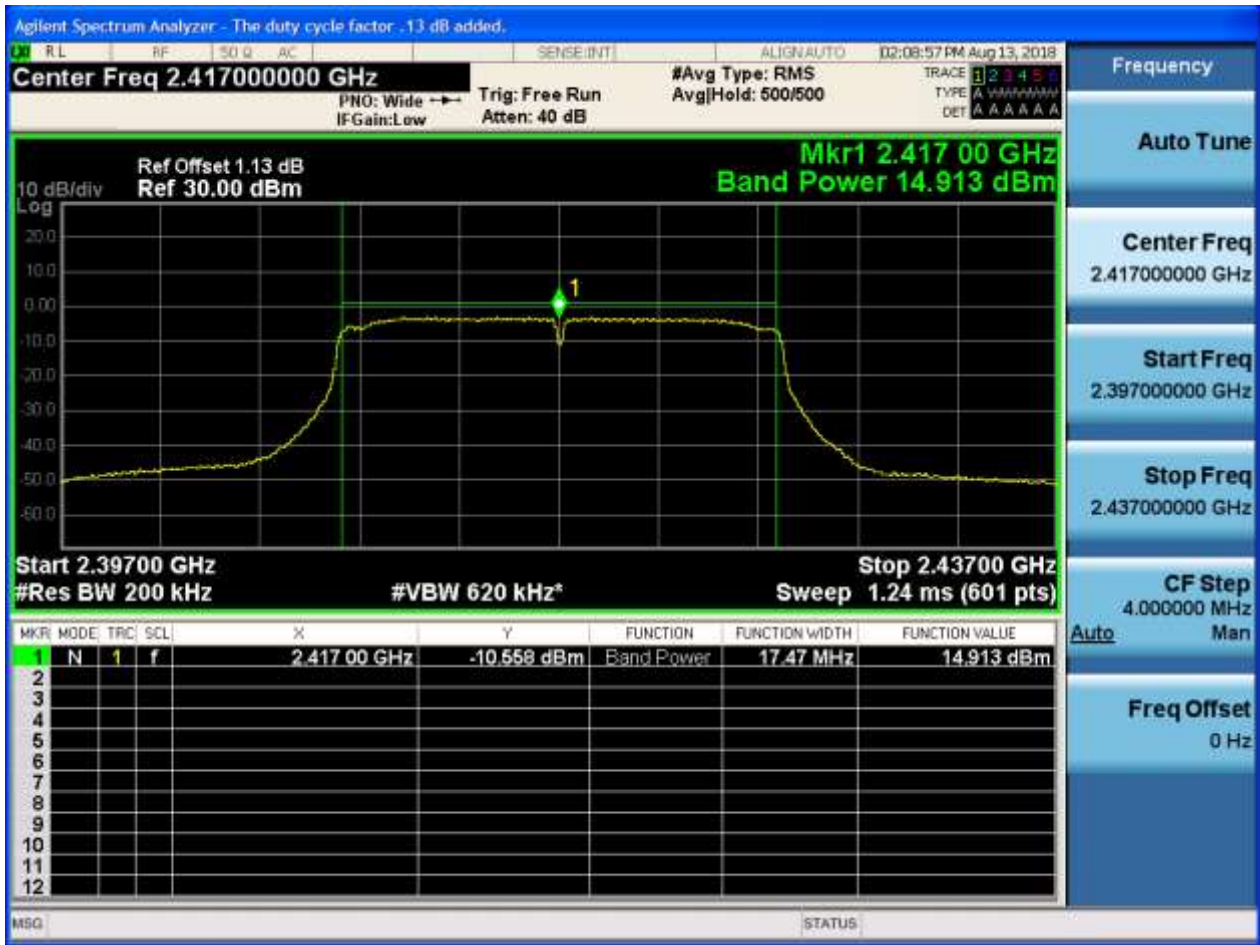


2.28 11N20m_L_2412@Ant 2



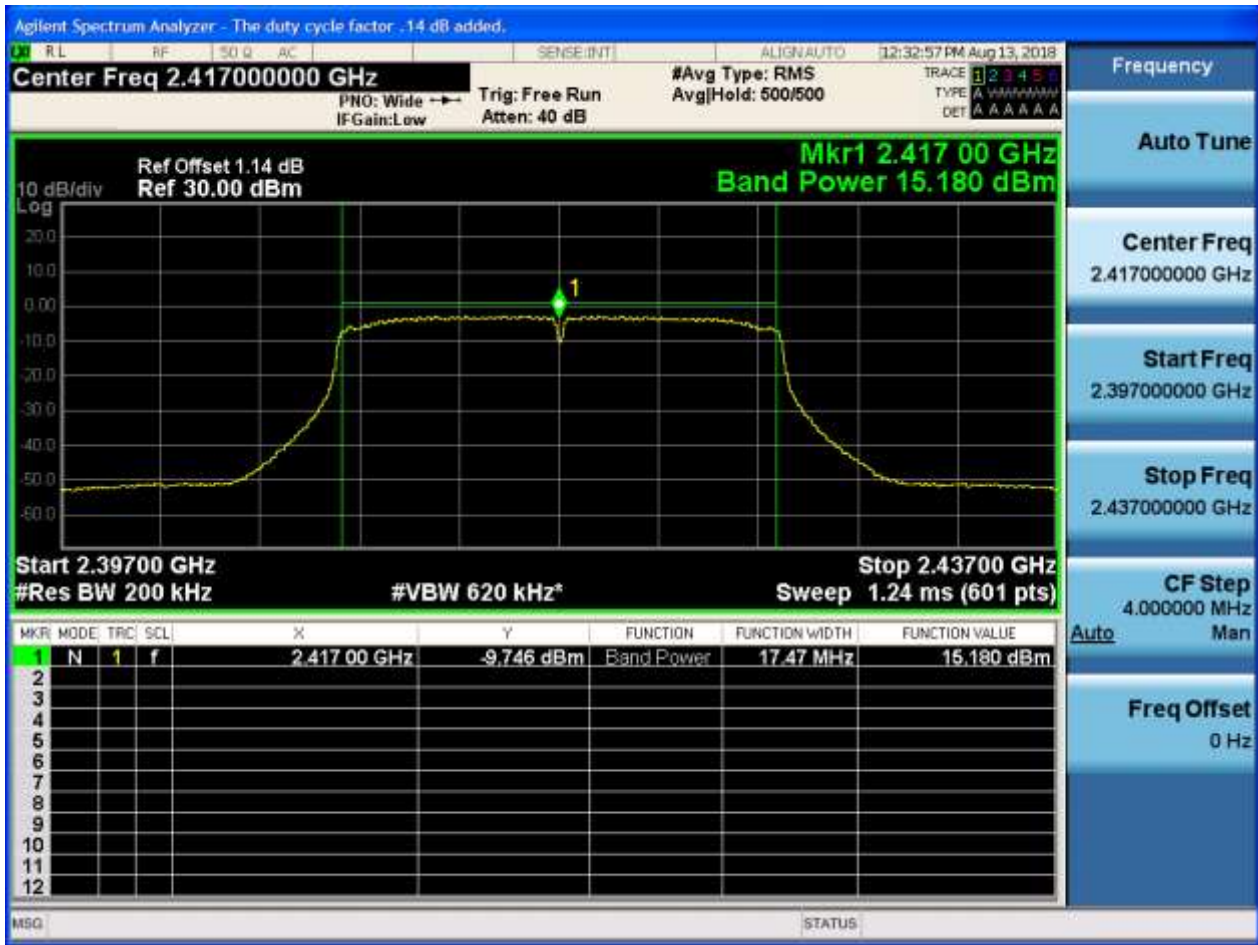


2.29 11N20m_L_2417@Ant 1



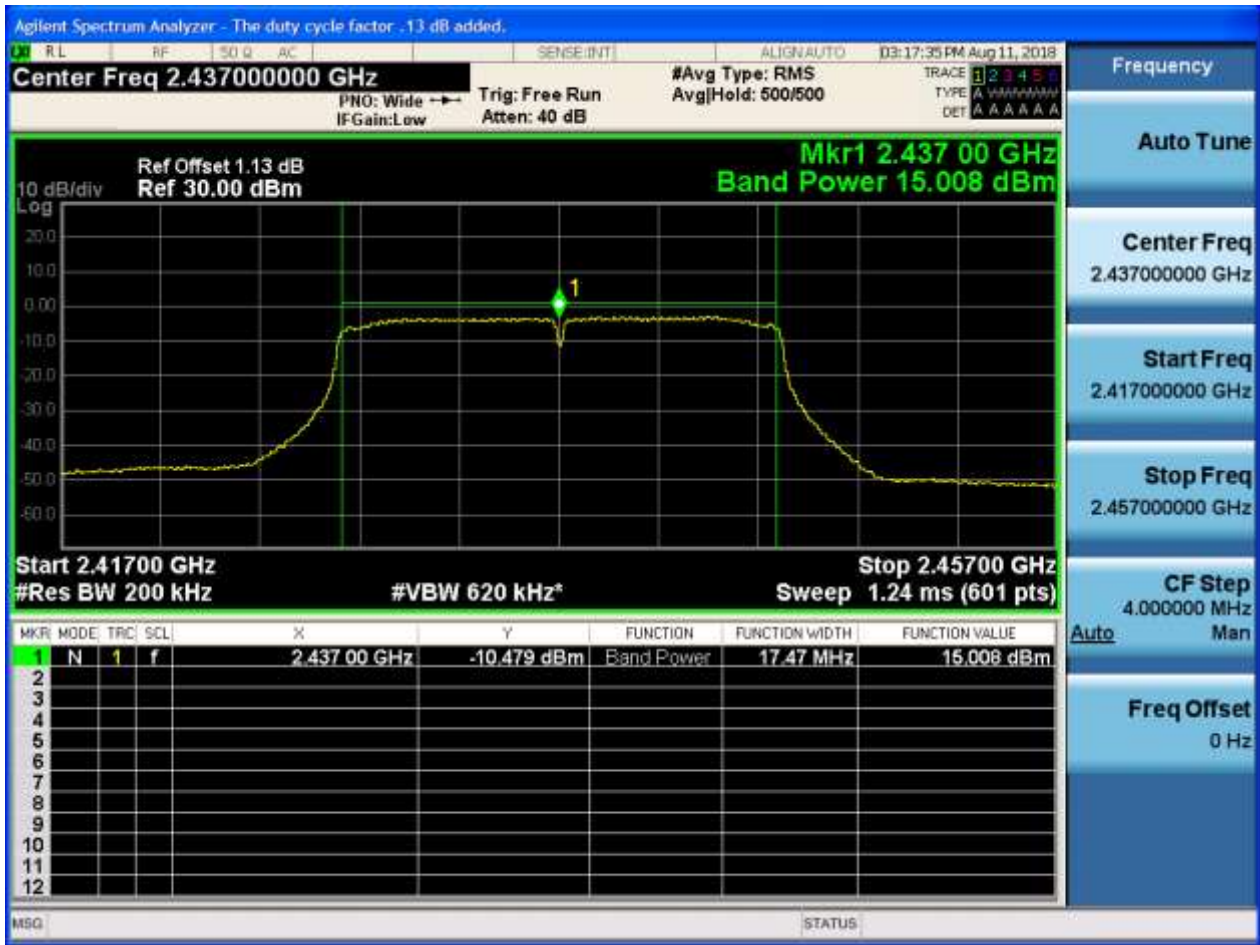


2.30 11N20m_L_2417@Ant 2





2.31 11N20m_M_2437@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .14 dB added.

Center Freq 2.437000000 GHz

#Avg Type: RMS
Avg/Hold: 500/500

Trace 1 2 3 4 5 6
Type A W W W W W W W
Det A A A A A A

PNO: Wide → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 1.14 dB
Ref 30.00 dBm

Mkr1 2.437 00 GHz
Band Power 15.420 dBm

Start 2.41700 GHz
#Res BW 200 kHz

Stop 2.45700 GHz
Sweep 1.24 ms (601 pts)

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.437 00 GHz	-9.896 dBm	Band Power	17.60 MHz	15.420 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.417000000 GHz

Stop Freq
2.457000000 GHz

CF Step
4.000000 MHz
Man

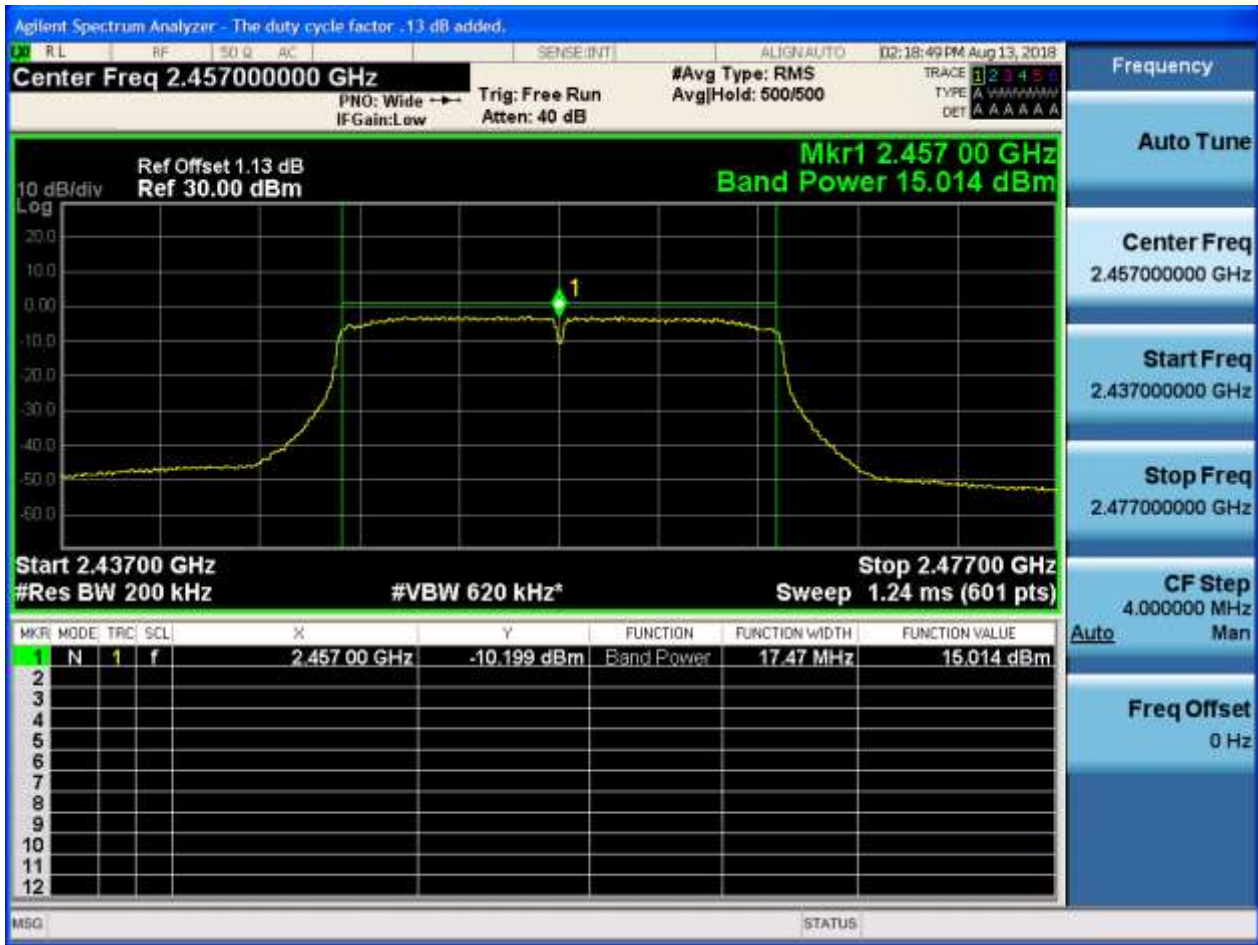
Auto

Freq Offset
0 Hz

MSG STATUS

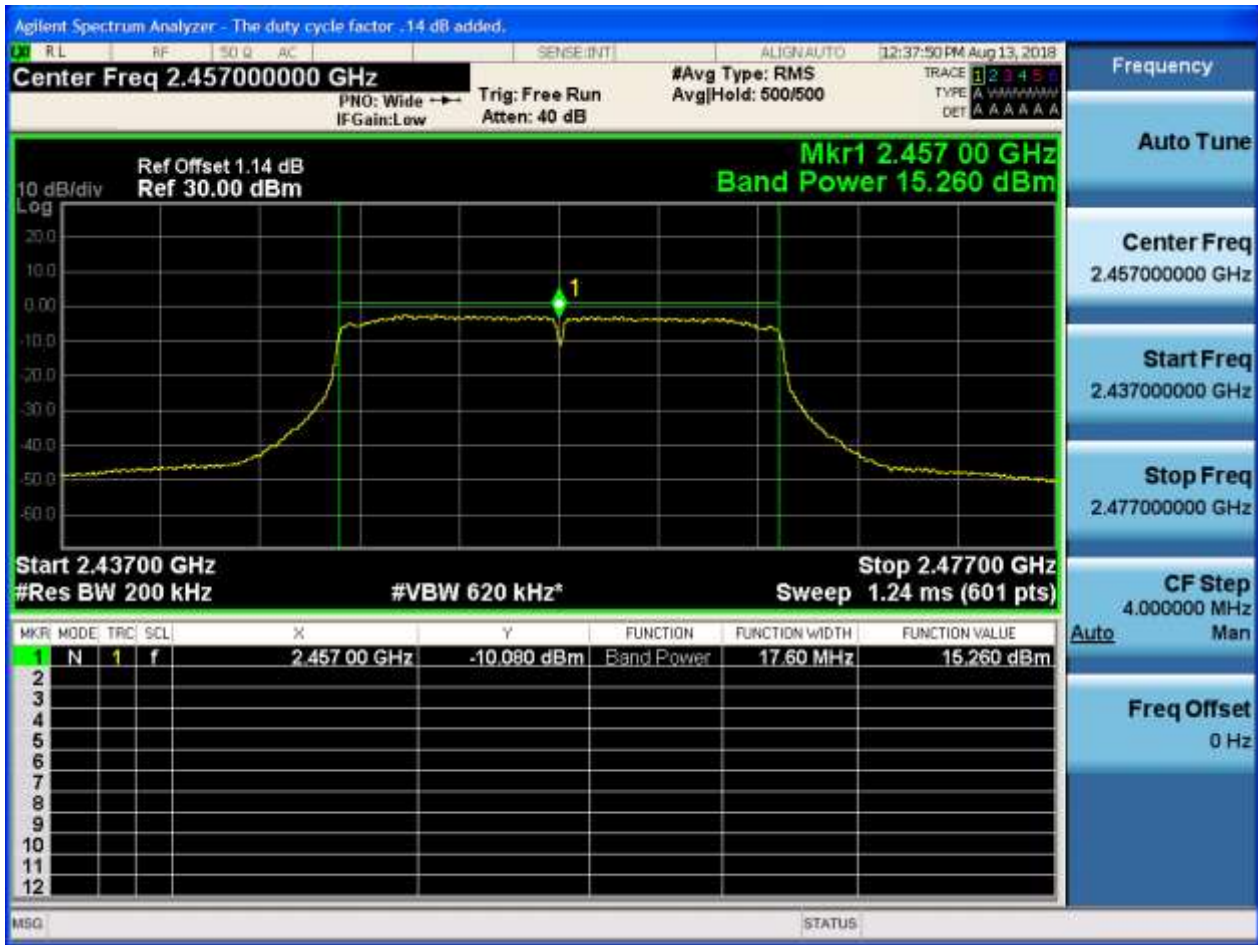


2.33 11N20m_H_2457@Ant 1





2.34 11N20m_H_2457@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .13 dB added.

Center Freq 2.462000000 GHz #Avg Type: RMS AvgHeld: 500/500

PNO: Wide → Trig: Free Run IFGain: Low Atten: 40 dB

Ref Offset 1.13 dB Ref 30.00 dBm

Mkr1 2.462 00 GHz Band Power 11.656 dBm

Start 2.44200 GHz Stop 2.48200 GHz

#Res BW 200 kHz #VBW 620 kHz* Sweep 1.24 ms (601 pts)

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.462 00 GHz	-13.477 dBm	Band Power	17.47 MHz	11.656 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq 2.462000000 GHz

Start Freq 2.442000000 GHz

Stop Freq 2.482000000 GHz

CF Step 4.000000 MHz

Man

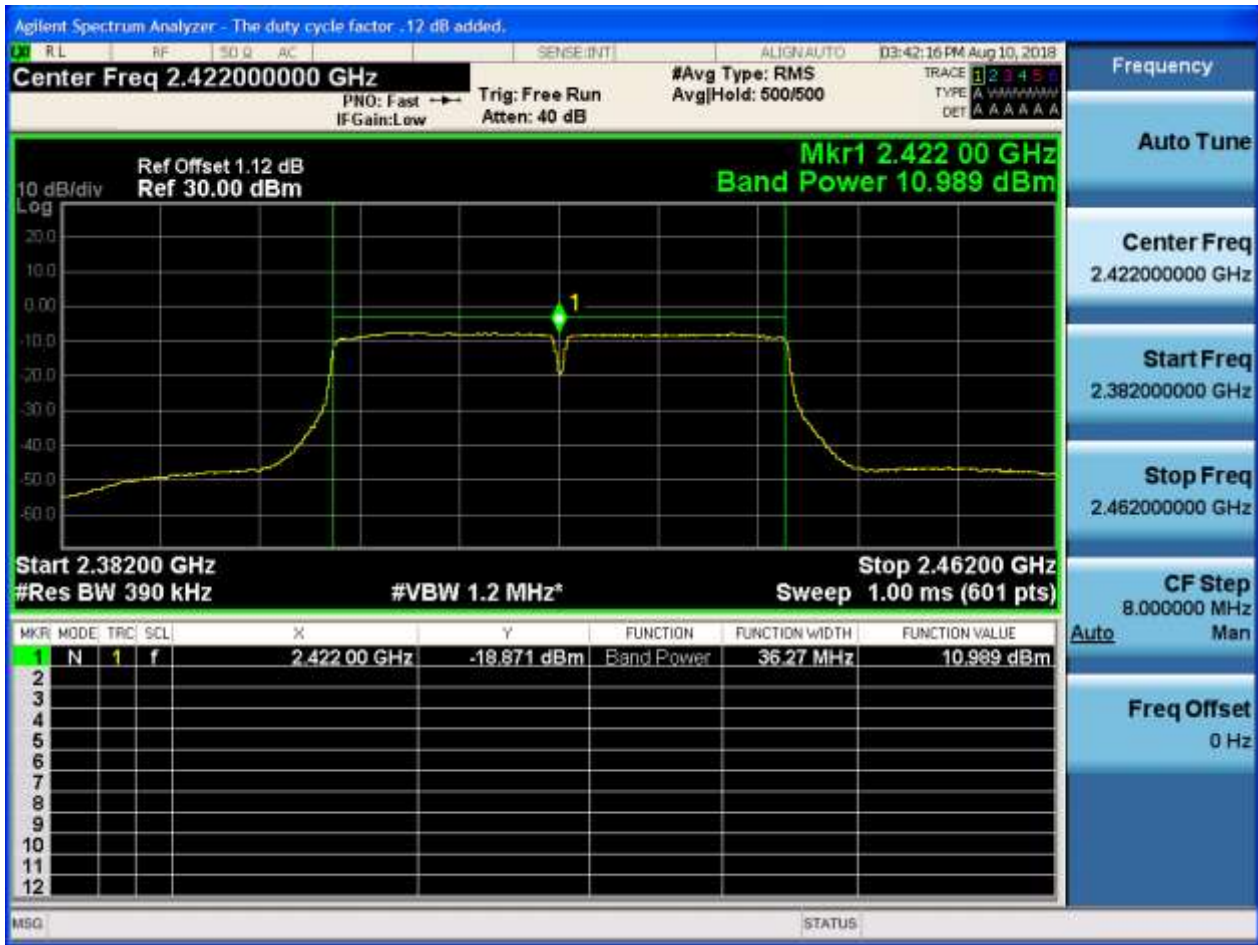
Freq Offset 0 Hz

Auto

STATUS

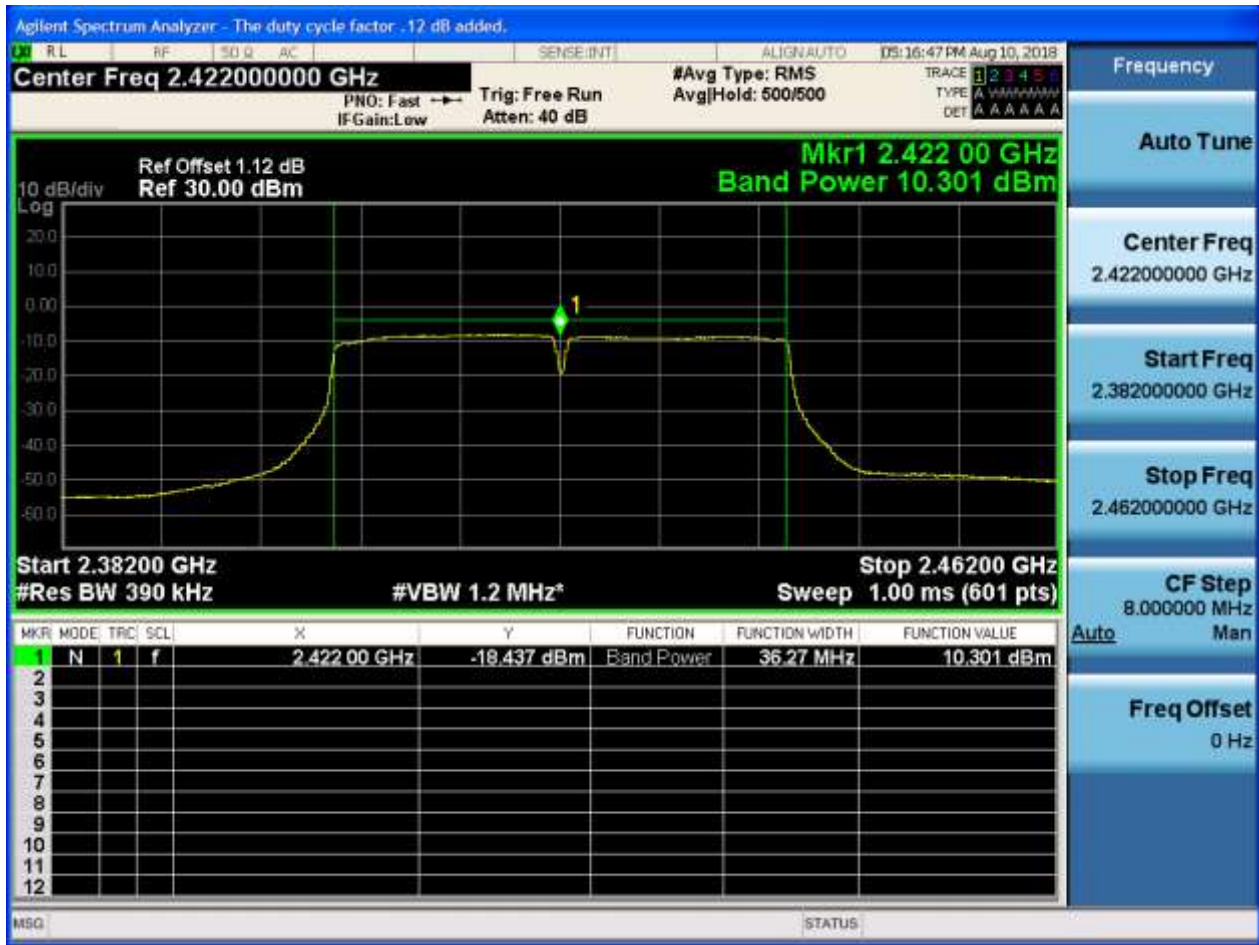


2.37 11N40_H_2422@Ant 1





2.38 11N40_H_2422@Ant 2





2.39 11N40_L_2427@Ant 1





2.40 11N40_L_2427@Ant 2





2.41 11N40_M_2437@Ant 1





2.42 11N40_M_2437@Ant 2





2.43 11N40_H_2447@Ant 1





2.44 11N40_H_2447@Ant 2



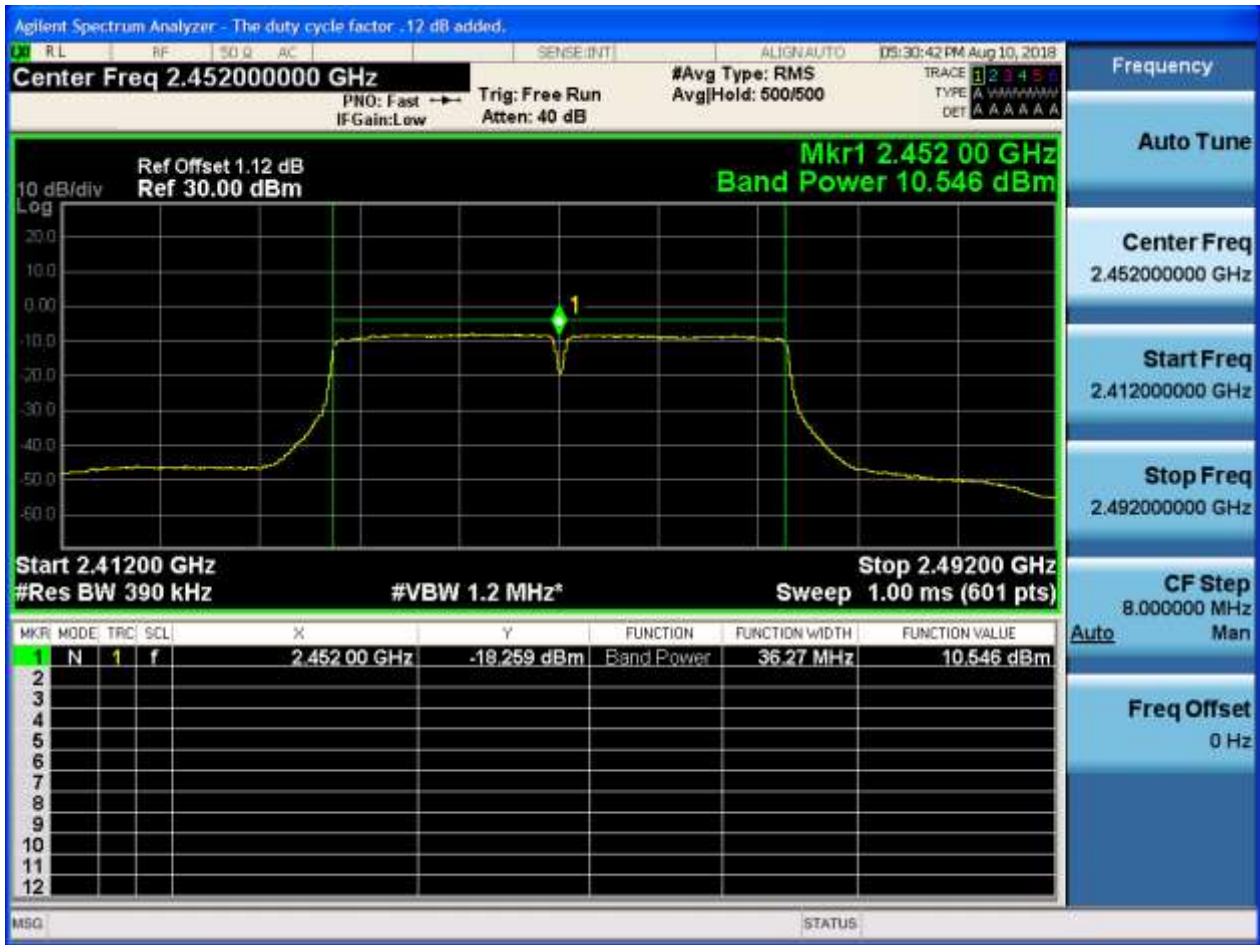


2.45 11N40_H_2452@Ant 1



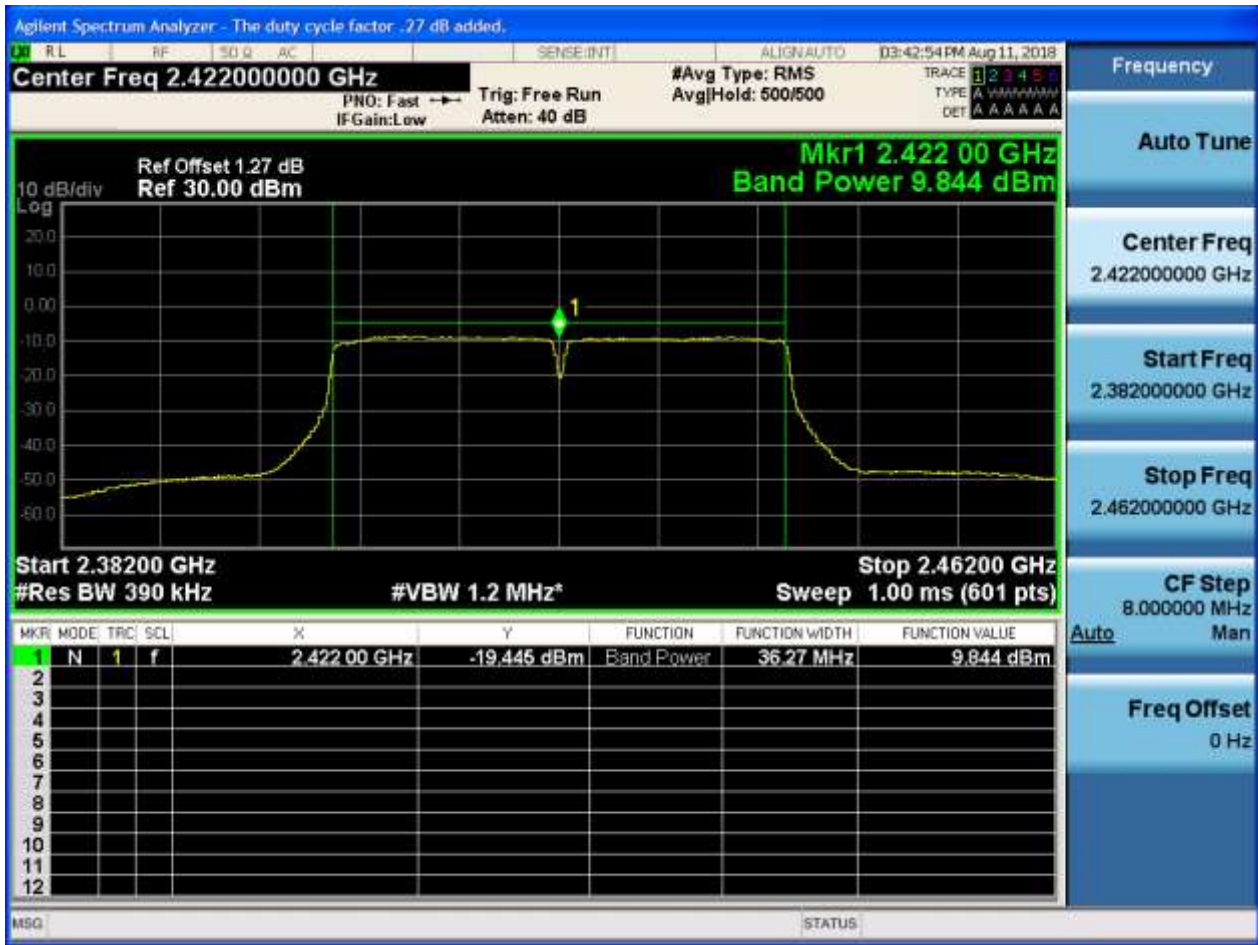


2.46 11N40_H_2452@Ant 2



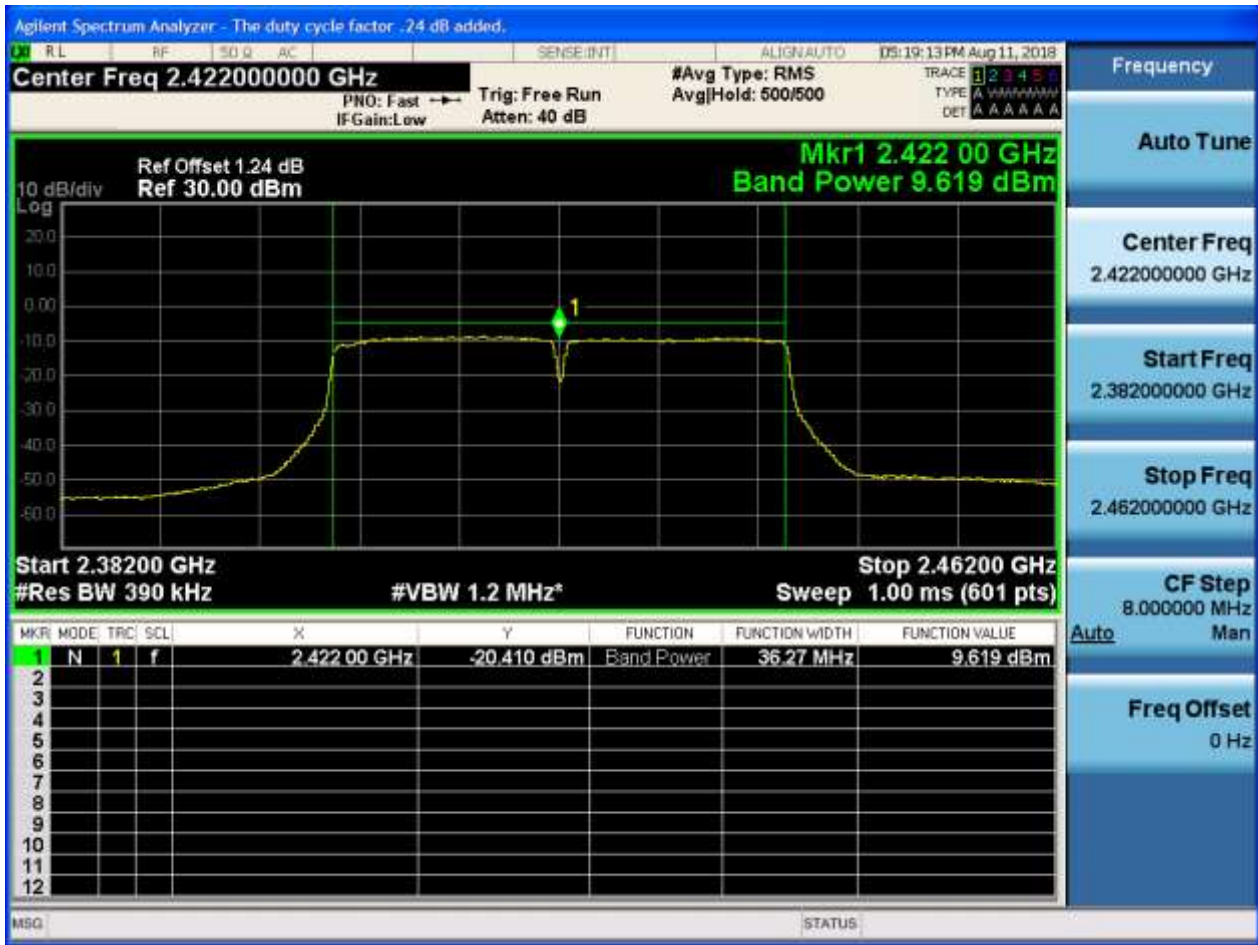


2.47 11N40m_L_2422@Ant 1





2.48 11N40m_L_2422@Ant 2





2.49 11N40m_L_2427@Ant 1





2.50 11N40m_L_2427@Ant 2





2.51 11N40m_M_2437@Ant 1





2.52 11N40m_M_2437@Ant 2





2.53 11N40m_H_2447@Ant 1



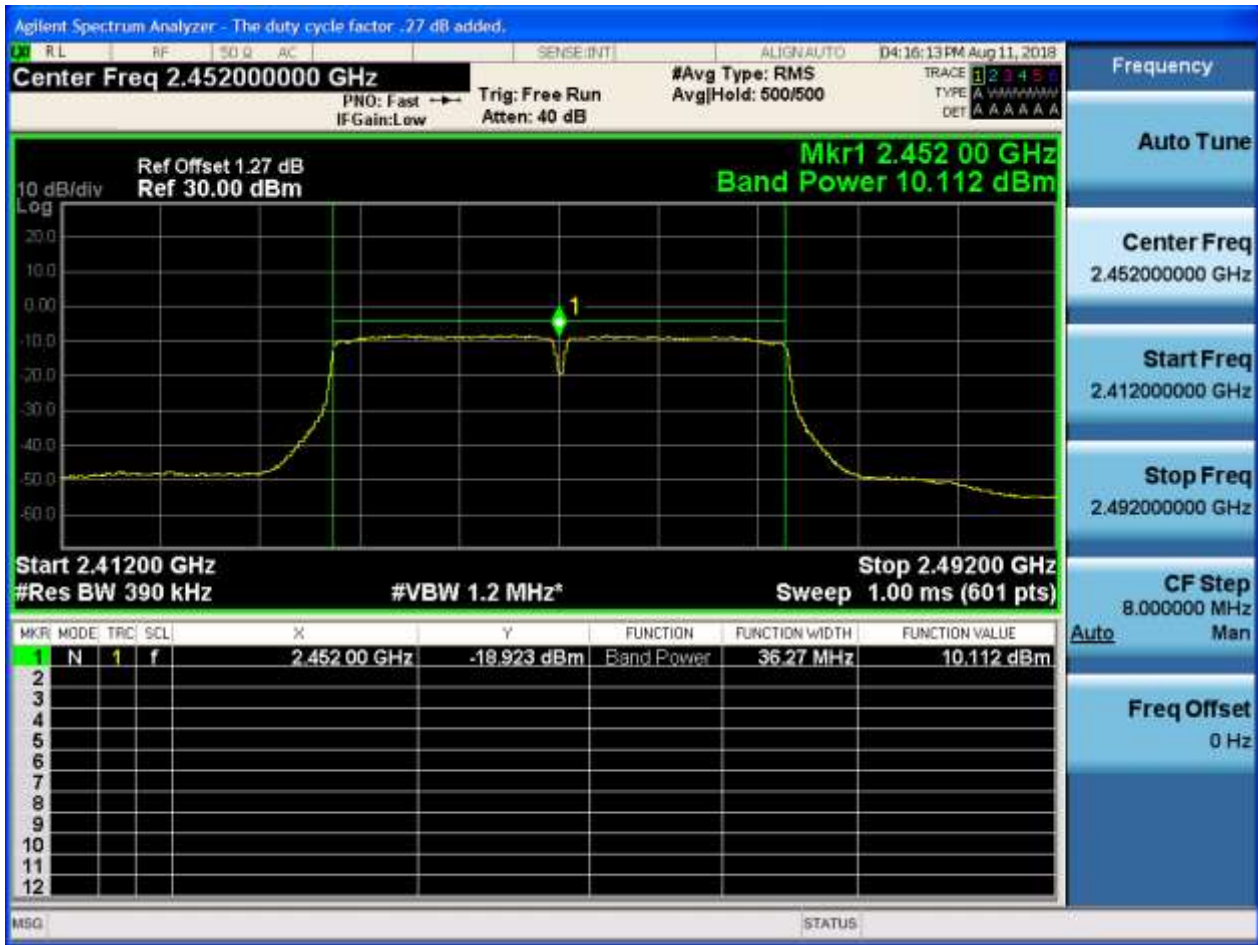


2.54 11N40m_H_2447@Ant 2



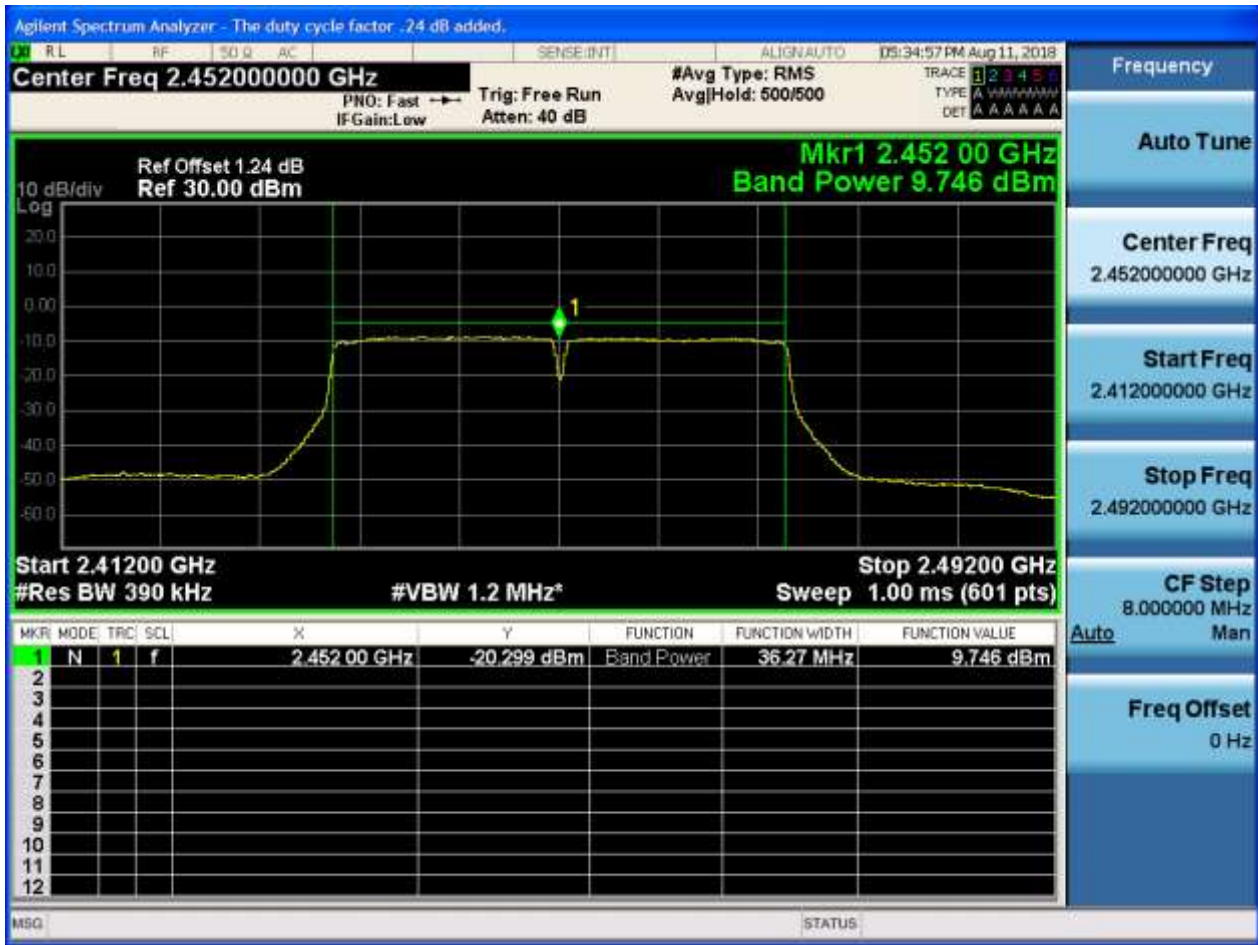


2.55 11N40m_H_2452@Ant 1



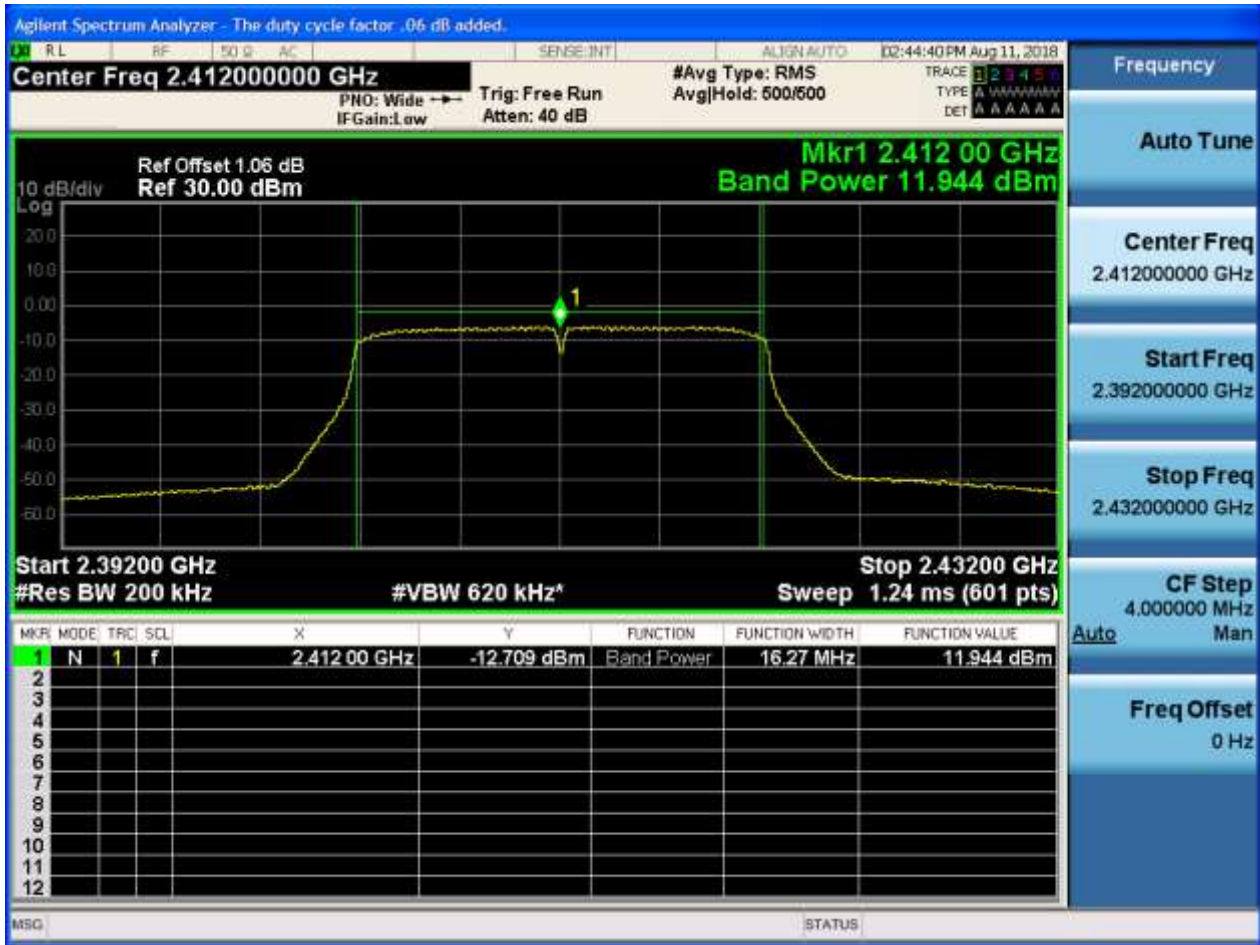


2.56 11N40m_H_2452@Ant 2



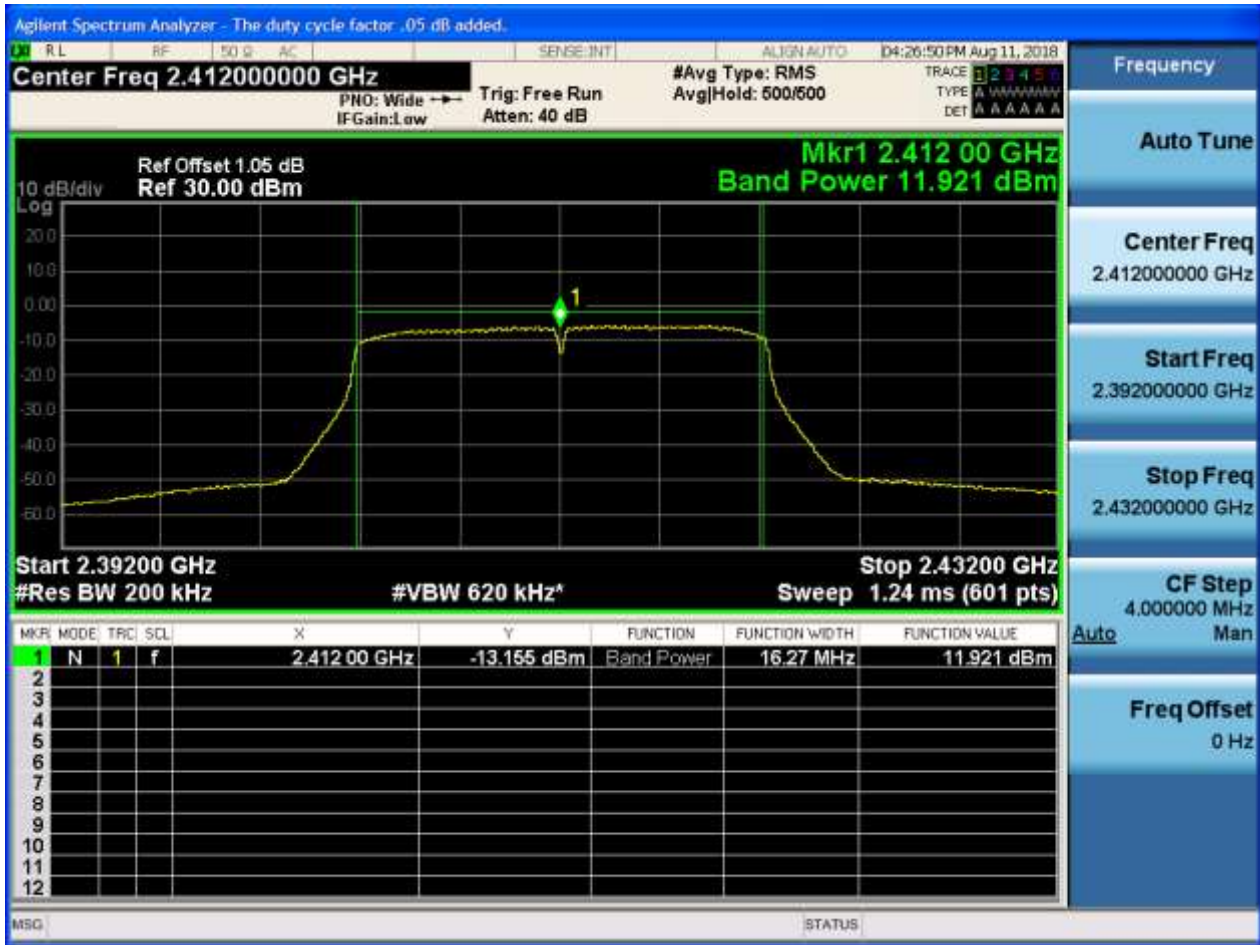


2.57 11G CDD_L_2412@Ant 1



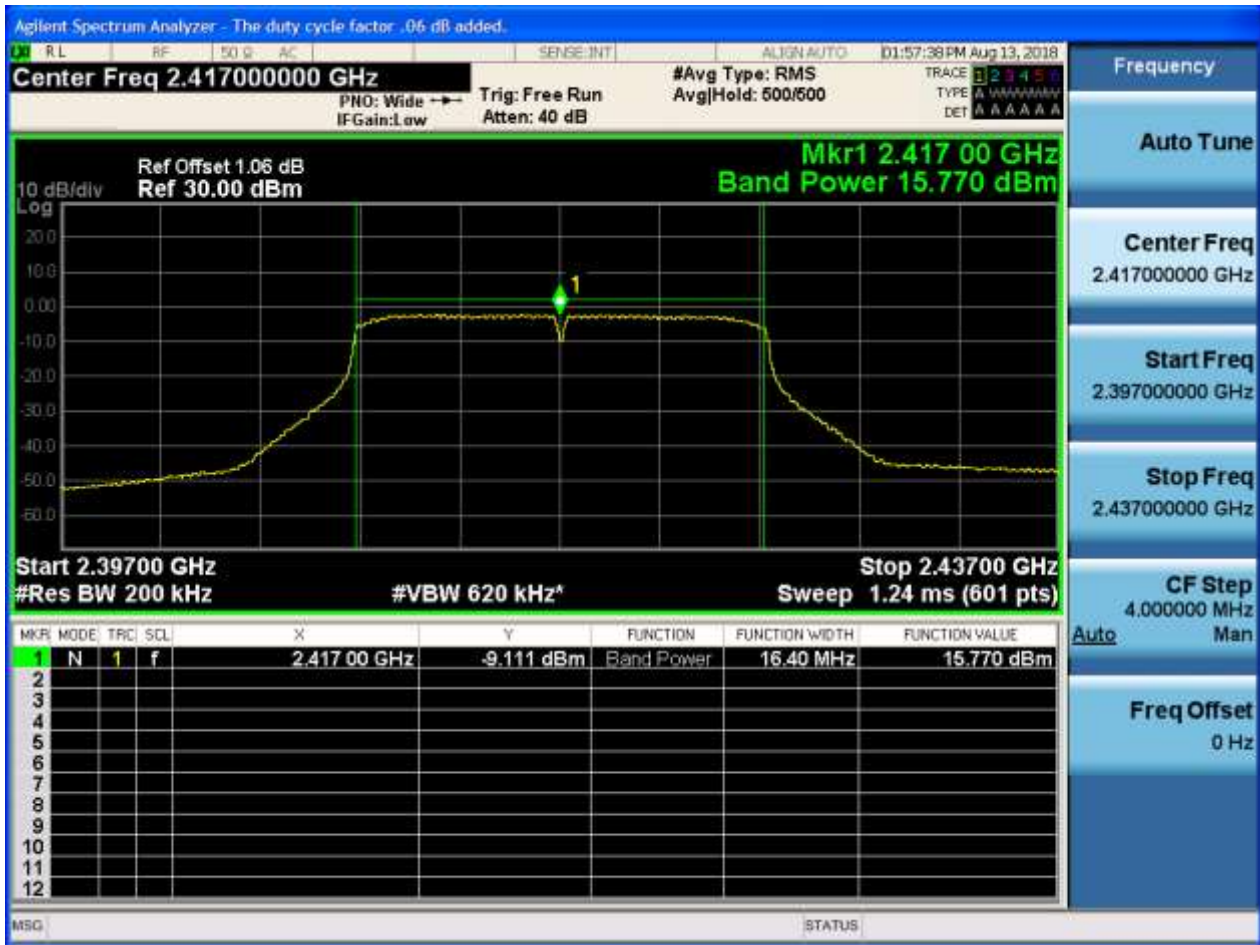


2.58 11G CDD _L_2412@Ant 2



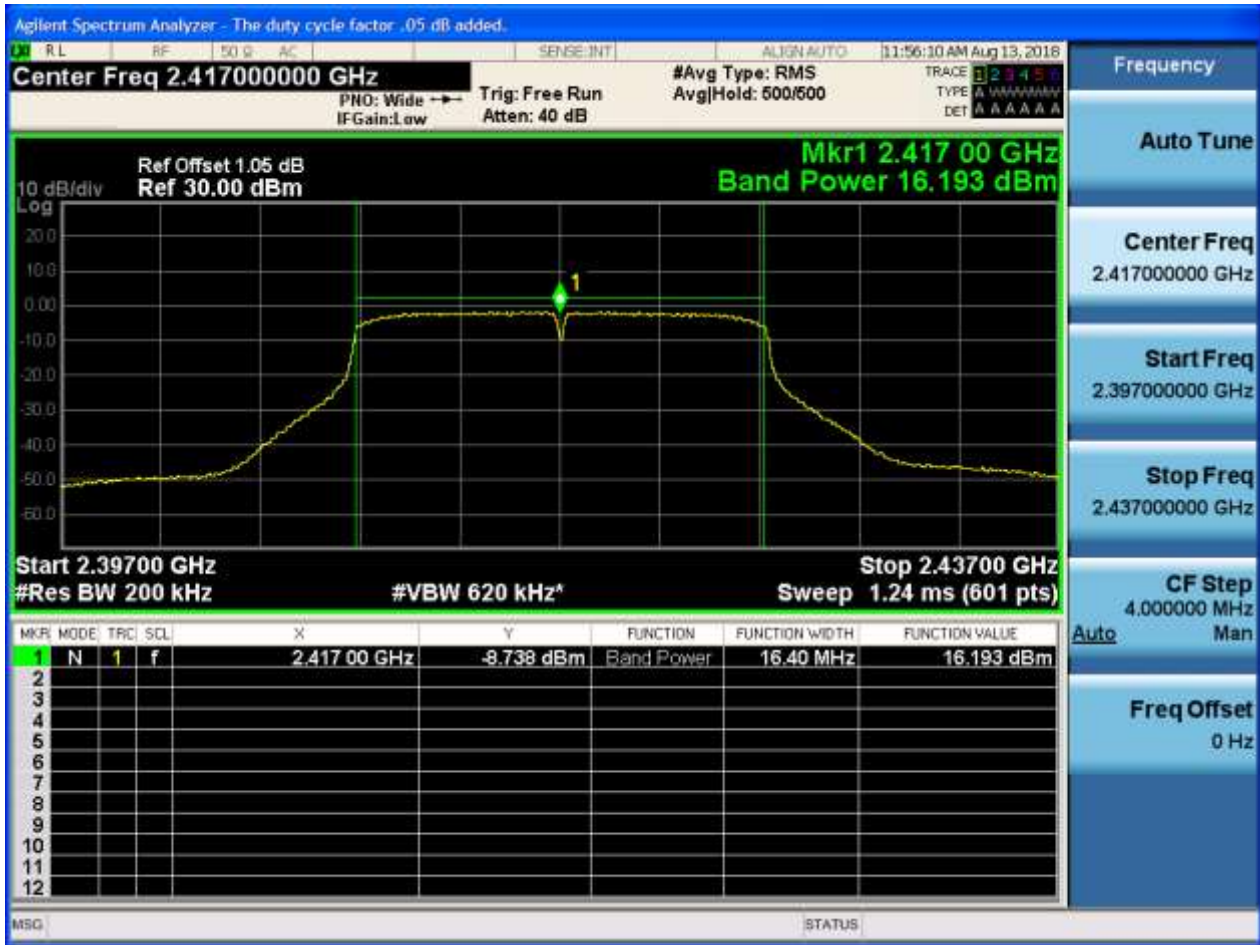


2.59 11G CDD _L_2417@Ant 1



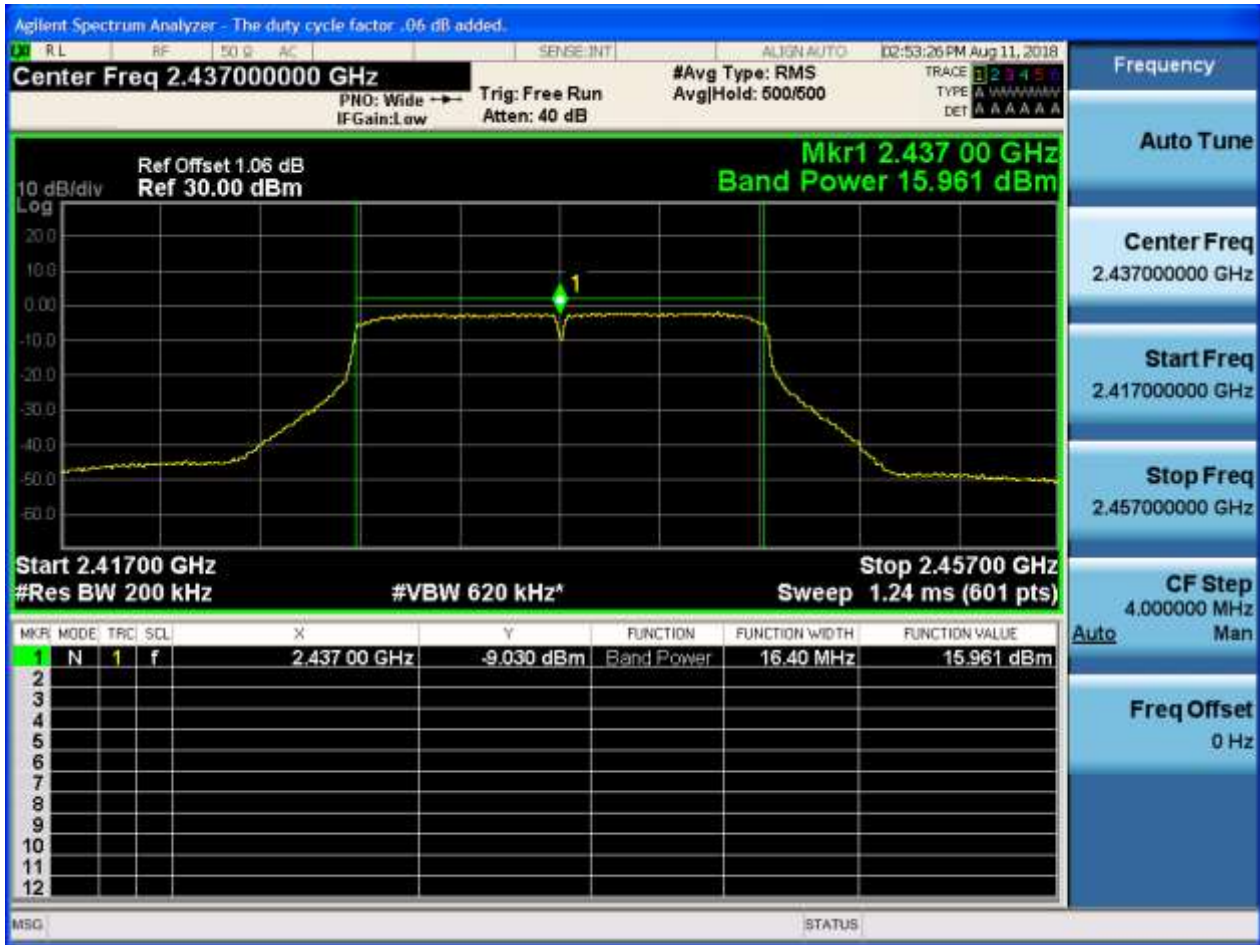


2.60 11G CDD _L_2417@Ant 2



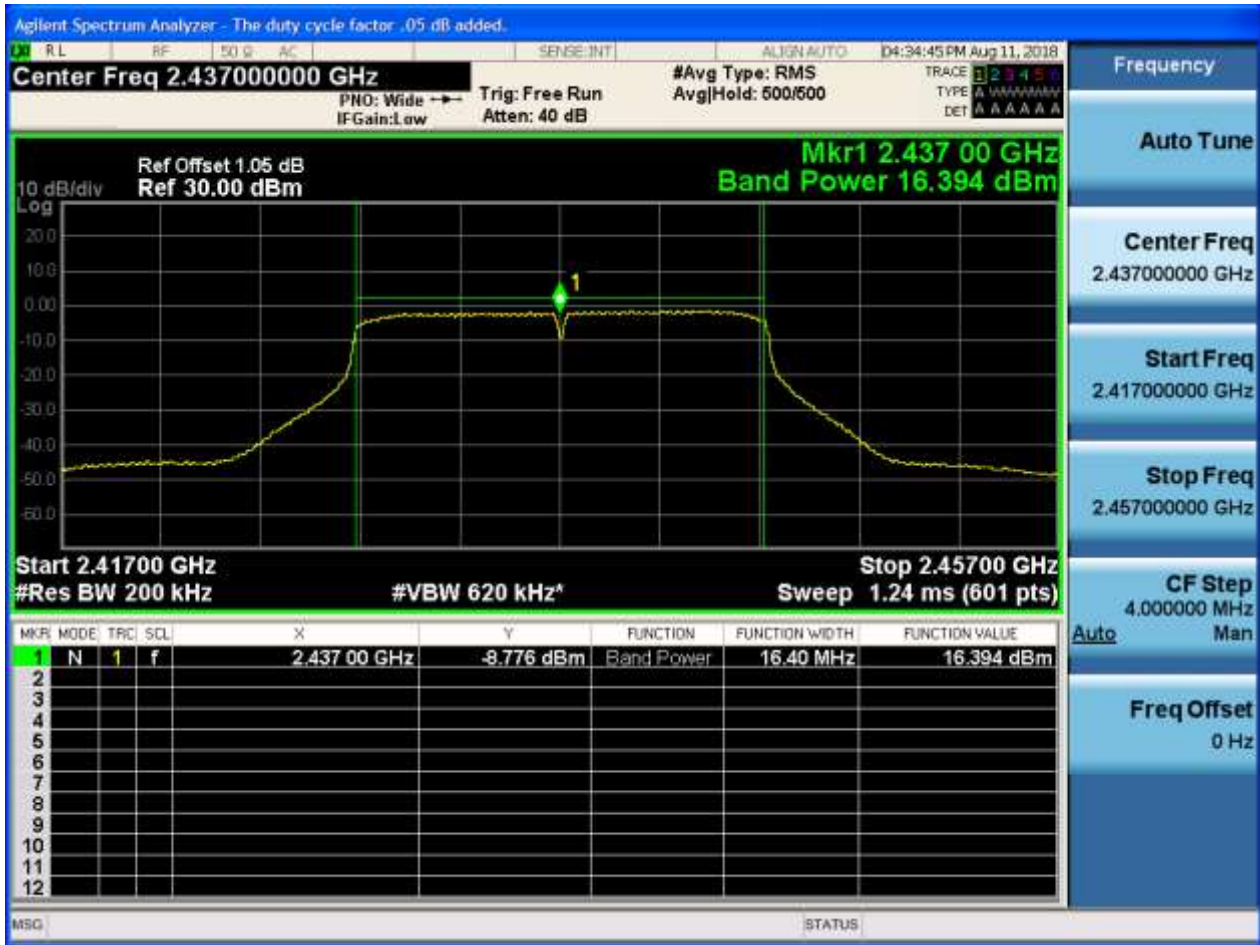


2.61 11G CDD _M_2437@Ant 1



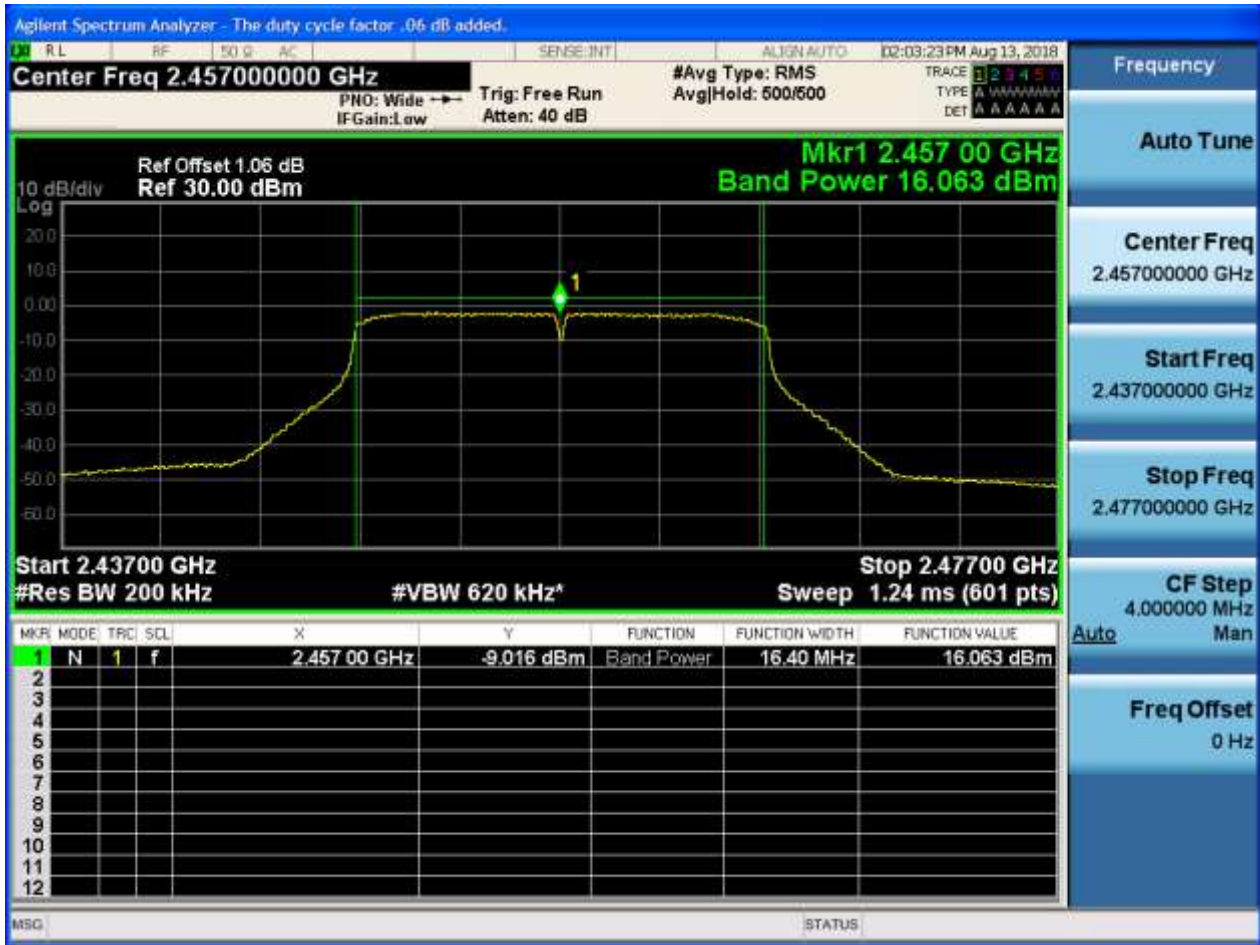


2.62 11G CDD _M_2437@Ant 2



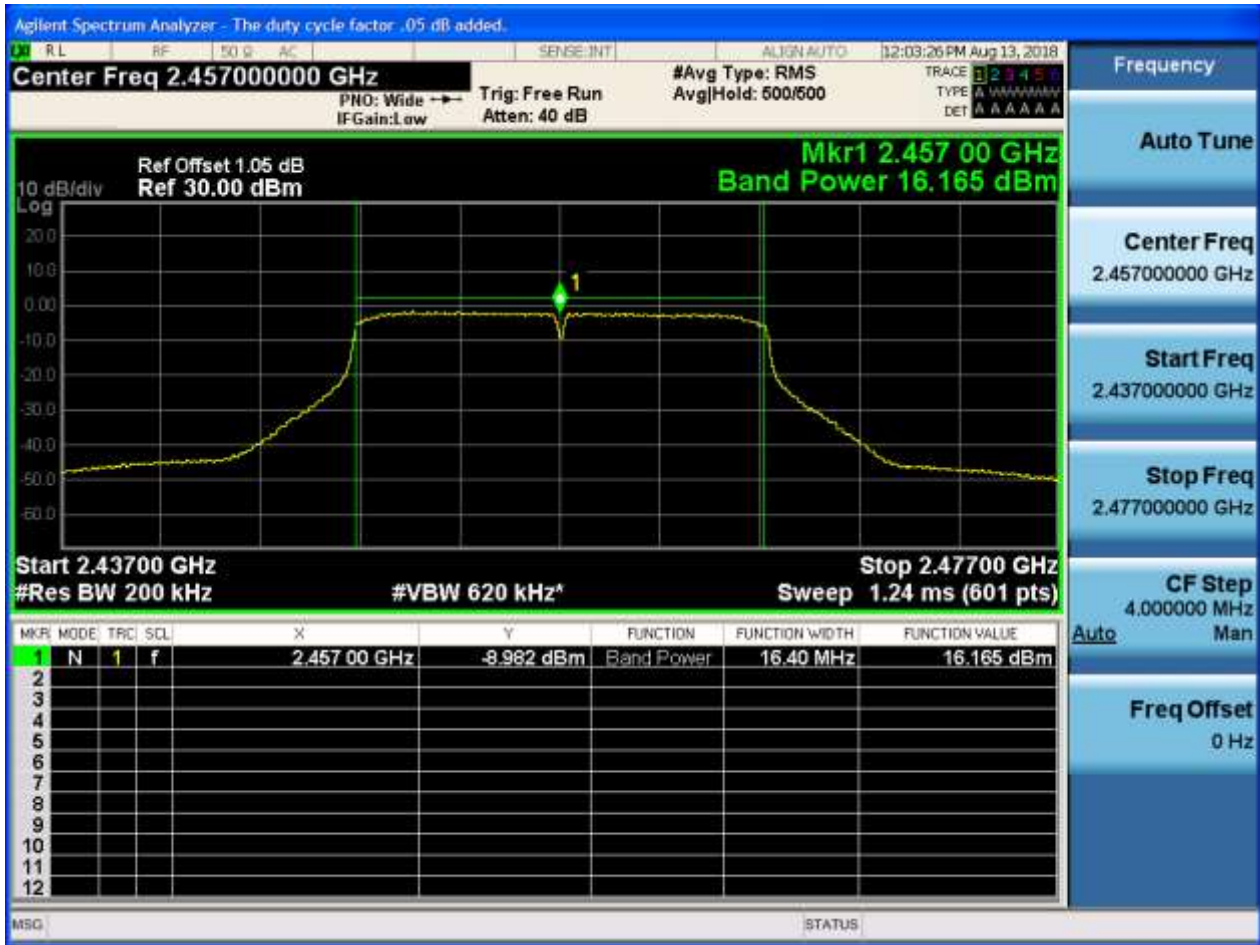


2.63 11G CDD _H_2457@Ant 1



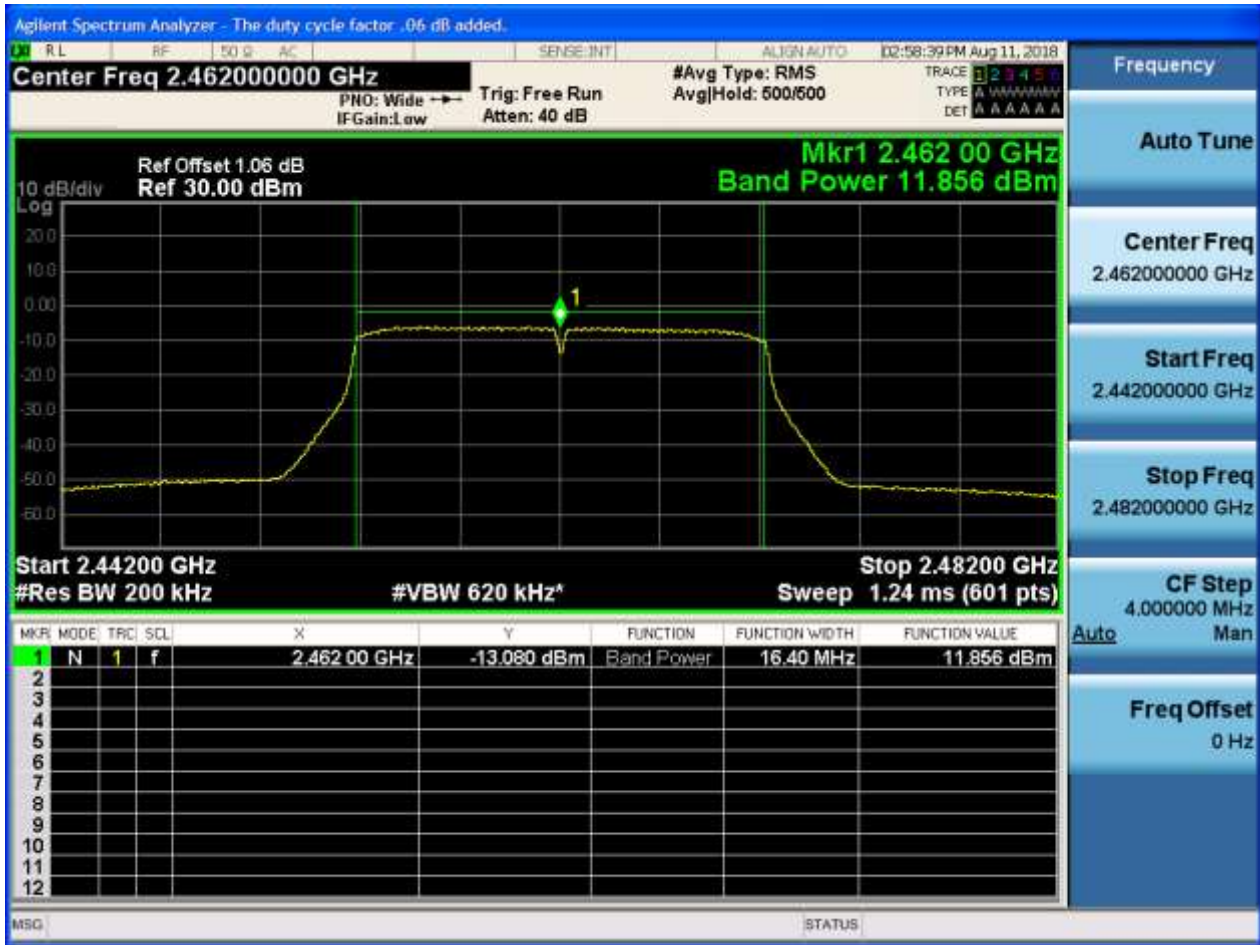


2.64 11G CDD _H_2457@Ant 2



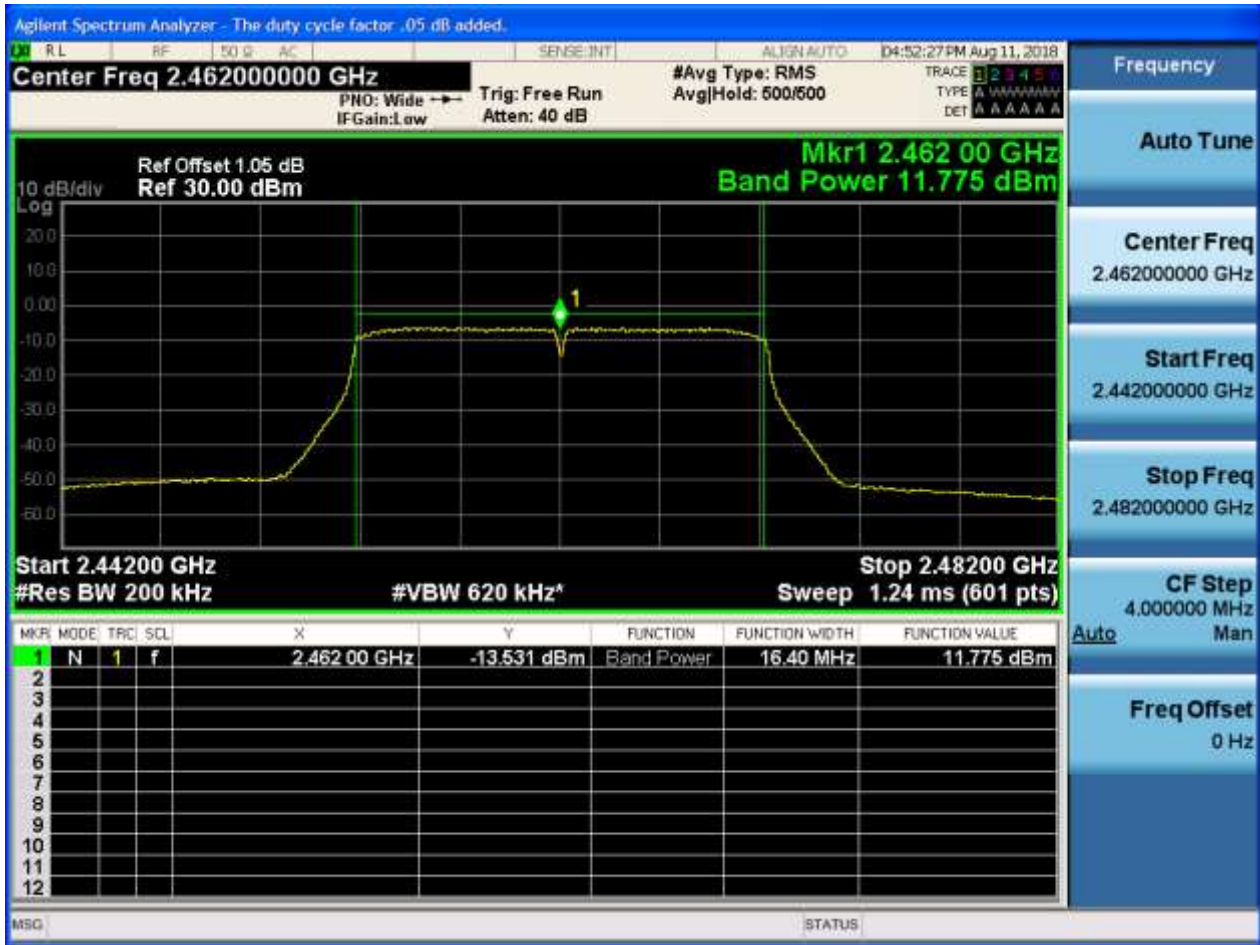


2.65 11G CDD _H_2462@Ant 1





2.66 11G CDD _H_2462@Ant 2



Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PD[MHz]	Verdict
11B	L	2412	Ant 1	99.8	-9.19	pass
11B	L	2412	Ant 2	99.8	-8.50	pass
11B	M	2437	Ant 1	99.8	-9.52	pass
11B	M	2437	Ant 2	99.8	-8.57	pass
11B	H	2462	Ant 1	99.8	-9.15	pass
11B	H	2462	Ant 2	99.8	-9.07	pass
11G	L	2412	Ant 1	98.6	-17.11	pass
11G	L	2412	Ant 2	98.4	-16.98	pass
11G	L	2417	Ant 1	98.6	-13.39	pass
11G	L	2417	Ant 2	98.4	-12.98	pass
11G	M	2437	Ant 1	98.6	-13.43	pass
11G	M	2437	Ant 2	98.4	-12.75	pass
11G	H	2457	Ant 1	98.6	-12.99	pass
11G	H	2457	Ant 2	98.4	-13.00	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PD[MHz]	Verdict
11G	H	2462	Ant 1	98.6	-16.71	pass
11G	H	2462	Ant 2	98.4	-17.44	pass
11N20	L	2412	Ant 1	98.8	-17.46	pass
11N20	L	2412	Ant 2	98.9	-17.71	pass
11N20	L	2417	Ant 1	98.8	-14.70	pass
11N20	L	2417	Ant 2	98.9	14.34	pass
11N20	M	2437	Ant 1	98.8	-14.73	pass
11N20	M	2437	Ant 2	98.9	-14.24	pass
11N20	H	2457	Ant 1	98.8	-14.18	pass
11N20	H	2457	Ant 2	98.9	-14.15	pass
11N20	H	2462	Ant 1	98.8	-16.65	pass
11N20	H	2462	Ant 2	98.9	-17.66	pass
11N20m	L	2412	Ant 1	97	-17.27	pass
11N20m	L	2412	Ant 2	96.8	-17.14	pass
11N20m	L	2412	SUM	--	-14.19	pass
11N20m	L	2417	Ant 1	97	-14.40	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PD[MHz]	Verdict
11N20m	L	2417	Ant 2	96.8	-13.54	pass
11N20m	L	2417	SUM	--	-10.94	pass
11N20m	M	2437	Ant 1	97	-14.34	pass
11N20m	M	2437	Ant 2	96.8	-13.38	pass
11N20m	M	2437	SUM	--	-10.82	pass
11N20m	H	2457	Ant 1	97	-14.38	pass
11N20m	H	2457	Ant 2	96.8	-13.83	pass
11N20m	H	2457	SUM	--	-11.09	pass
11N20m	H	2462	Ant 1	97	-17.73	pass
11N20m	H	2462	Ant 2	96.8	-17.77	pass
11N20m	H	2462	SUM	--	-14.74	pass
11N40	L	2422	Ant 1	97.2	-21.43	pass
11N40	L	2422	Ant 2	97.2	-21.94	pass
11N40	L	2427	Ant 1	97.2	-18.85	pass
11N40	L	2427	Ant 2	97.2	-18.46	pass
11N40	M	2437	Ant 1	97.2	-18.53	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PD[MHz]	Verdict
11N40	M	2437	Ant 2	97.2	-18.49	pass
11N40	H	2447	Ant 1	97.2	-18.68	pass
11N40	H	2447	Ant 2	97.2	-18.10	pass
11N40	H	2452	Ant 1	97.2	-21.23	pass
11N40	H	2452	Ant 2	97.2	-21.47	pass
11N40m	L	2422	Ant 1	94.4	-22.17	pass
11N40m	L	2422	Ant 2	94.7	-21.51	pass
11N40m	L	2422	SUM	--	-18.82	
11N40m	L	2427	Ant 1	94.4	-18.52	pass
11N40m	L	2427	Ant 2	94.7	-16.94	pass
11N40m	L	2427	SUM	--	-14.65	
11N40m	M	2437	Ant 1	94.4	-18.53	pass
11N40m	M	2437	Ant 2	94.7	-17.44	pass
11N40m	M	2437	SUM	--	-14.94	
11N40m	H	2447	Ant 1	94.4	-18.59	pass
11N40m	H	2447	Ant 2	94.7	-17.59	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PD[MHz]	Verdict
11N40m	H	2447	SUM	--	-15.05	
11N40m	H	2452	Ant 1	94.4	-21.98	pass
11N40m	H	2452	Ant 2	94.7	-19.66	pass
11N40m	H	2452	SUM	--	-17.66	
11G CDD	L	2412	Ant 1	98.6	-17.14	pass
11G CDD	L	2412	Ant 2	98.8	-17.00	pass
11G CDD	L	2412	SUM	--	-14.06	
11G CDD	L	2417	Ant 1	98.6	-13.58	pass
11G CDD	L	2417	Ant 2	98.8	-13.17	pass
11G CDD	L	2417	SUM	--	-10.36	
11G CDD	M	2437	Ant 1	98.6	-13.10	pass
11G CDD	M	2437	Ant 2	98.8	-12.89	pass
11G CDD	M	2437	SUM	--	-9.98	
11G CDD	H	2457	Ant 1	98.6	-13.09	pass
11G CDD	H	2457	Ant 2	98.8	-12.85	pass
11G CDD	H	2457	SUM	--	-9.96	



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PD[MHz]	Verdict
11G CDD	H	2462	Ant 1	98.6	-17.53	pass
11G CDD	H	2462	Ant 2	98.8	-17.60	pass
11G CDD	H	2462	SUM	--	-14.55	



Part II - Test Plots

2.1 11B_L_2412@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .01 dB added.

Center Freq 2.41200000 GHz

Ref Offset 1.01 dB
Ref 20.00 dBm

10 dB/div
Log

Start 2.39200 GHz
#Res BW 10 kHz

Stop 2.43200 GHz
Sweep 477 ms (8190 pts)

#VBW 100 kHz*

Mkr1 2.412 711 GHz
-8.496 dBm



2.3 11B_M_2437@Ant 1





2.4 11B_M_2437@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .01 dB added.

RL RF 50 Q AC SENSE:INT ALIGN: AUTO 02:59:20 PM Aug 10, 2018

Center Freq 2.462000000 GHz #Avg Type: RMS Avg/Hold: 200/200

PNO: Wide → Trig: Free Run IFGain: Low Atten: 30 dB

TRACE 1 2 3 4 5 6 TYPE A W W W W W W W W DET A A A A A A A

Ref Offset 1.01 dB
Ref 20.00 dBm

**Mkr1 2.461 411 GHz
-9.148 dBm**

10 dB/div
Log

Start 2.44200 GHz #Res BW 10 kHz #VBW 100 kHz* Stop 2.48200 GHz Sweep 477 ms (8190 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.462000000 GHz

Start Freq
2.442000000 GHz

Stop Freq
2.482000000 GHz

CF Step
4.000000 MHz
Auto Man

Freq Offset
0 Hz



2.6 11B_H_2462@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .06 dB added.

Center Freq 2.412000000 GHz

Ref Offset 1.06 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 2.413 878 GHz
-17.107 dBm

Start 2.39200 GHz
#Res BW 10 kHz

Stop 2.43200 GHz
Sweep 477 ms (8190 pts)

#VBW 100 kHz*

PNO: Wide → Trg: Free Run
IF Gain: Low Atten: 30 dB

#Avg Type: RMS
Avg/Hold: 200/200

TRACE 1 2 3 4 5 6
TYPE A W W W W W W
DET A A A A A A

Frequency

Auto Tune

Center Freq
2.412000000 GHz

Start Freq
2.392000000 GHz

Stop Freq
2.432000000 GHz

CF Step
4.000000 MHz
Man

Freq Offset
0 Hz

MSG STATUS



2.8 11G_L_2412@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .06 dB added.

Center Freq 2.417000000 GHz

#Avg Type: RMS
Avg|Hold: 200/200

Ref Offset 1.06 dB
Ref 20.00 dBm

Mkr1 2.413 275 GHz
-13.393 dBm

10 dB/div
Log

Start 2.39700 GHz
#Res BW 10 kHz
#VBW 100 kHz*

Stop 2.43700 GHz
Sweep 477 ms (8190 pts)

Frequency

Auto Tune

Center Freq
2.417000000 GHz

Start Freq
2.397000000 GHz

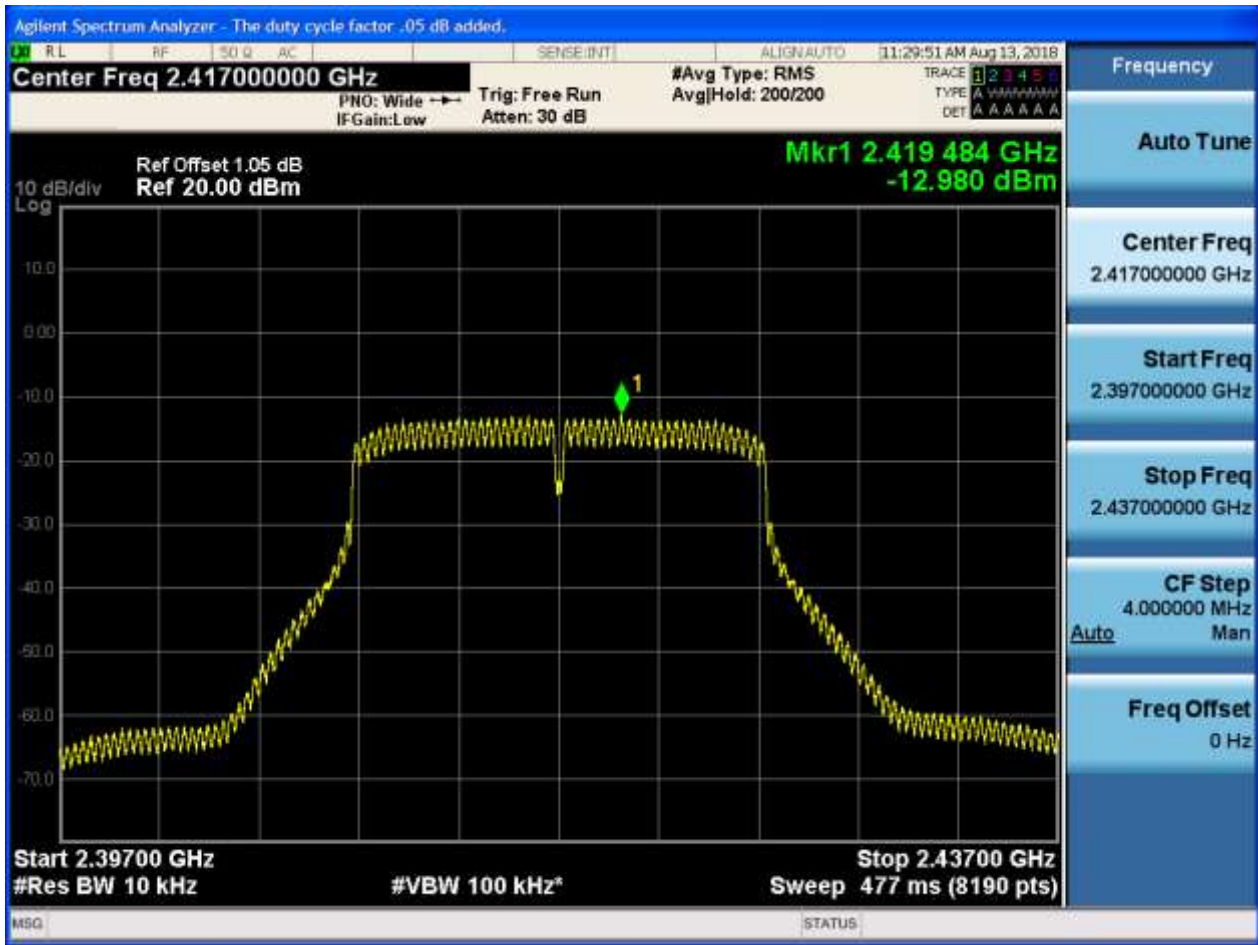
Stop Freq
2.437000000 GHz

CF Step
4.000000 MHz
Man

Freq Offset
0 Hz



2.10 11G_L_2417@Ant 2





2.11 11G_M_2437@Ant 1



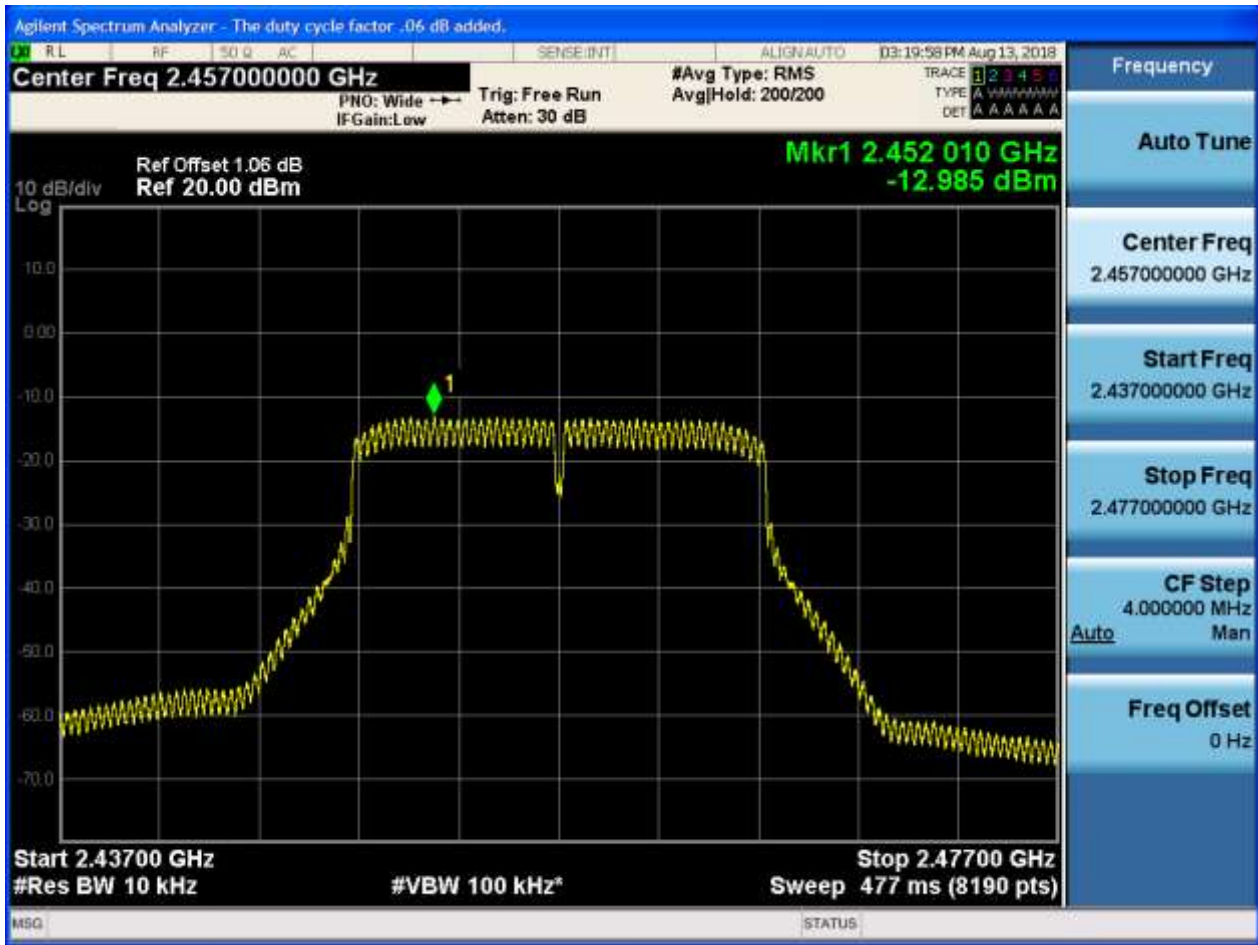


2.12 11G_M_2437@Ant 2





2.13 11G_H_2457@Ant 1





2.14 11G_H_2457@Ant 2





2.15 11G_H_2462@Ant 1



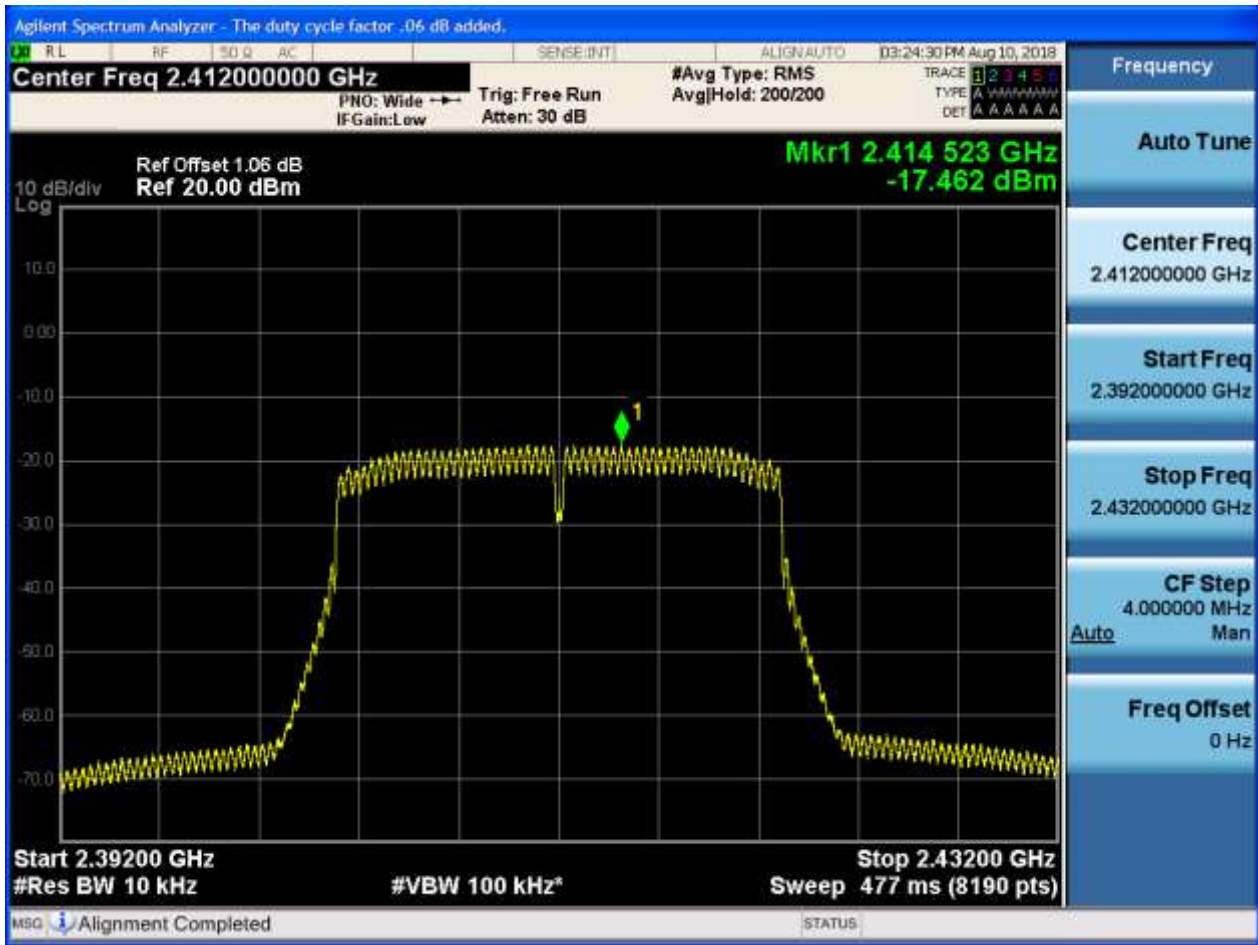


2.16 11G_H_2462@Ant 2





2.17 11N20_L_2412@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .05 dB added.

Center Freq 2.412000000 GHz

Ref Offset 1.05 dB
Ref 20.00 dBm

10 dB/div
Log

Start 2.39200 GHz
#Res BW 10 kHz

Stop 2.43200 GHz
Sweep 477 ms (8190 pts)

#VBW 100 kHz*

Mkr1 2.413 888 GHz
-17.705 dBm

Trig: Free Run
Atten: 30 dB

PNO: Wide
IFGain: Low

#Avg Type: RMS
Avg|Hold: 200/200

ALIGN AUTO

DS: 02:36 PM Aug 10, 2018

Frequency

Auto Tune

Center Freq
2.412000000 GHz

Start Freq
2.392000000 GHz

Stop Freq
2.432000000 GHz

CF Step
4.000000 MHz
Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - The duty cycle factor .13 dB added.

RL RF 50 Q AC SENSE:INT ALIGN: AUTO 03:31:36 PM Aug 13, 2018

Center Freq 2.417000000 GHz #Avg Type: RMS Avg|Hold: 200/200

PNO: Wide Trg: Free Run IFGain: Low Atten: 30 dB

TRACE 1 2 3 4 5 TYPE A W W W W W W W W DET A A A A A A

Ref Offset 1.13 dB Mkr1 2.412 001 GHz
Ref 20.00 dBm -14.699 dBm

10 dB/div Log

Start 2.39700 GHz Stop 2.43700 GHz
#Res BW 10 kHz #VBW 100 kHz* Sweep 477 ms (8190 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.417000000 GHz

Start Freq
2.397000000 GHz

Stop Freq
2.437000000 GHz

CF Step
4.000000 MHz
Man

Auto

Freq Offset
0 Hz



2.20 11N20_L_2417@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .06 dB added.

Center Freq 2.437000000 GHz

Ref Offset 1.06 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 2.443284 GHz
-14.725 dBm

Start 2.41700 GHz
#Res BW 10 kHz

Stop 2.45700 GHz
Sweep 477 ms (8190 pts)

#VBW 100 kHz*

Auto Tune

Center Freq 2.437000000 GHz

Start Freq 2.417000000 GHz

Stop Freq 2.457000000 GHz

CF Step 4.000000 MHz
Man

Freq Offset 0 Hz



2.22 11N20_M_2437@Ant 2





2.23 11N20_H_2457@Ant 1





2.24 11N20_H_2457@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .05 dB added.

Center Freq 2.462000000 GHz

Ref Offset 1.05 dB
Ref 20.00 dBm

10 dB/div
Log

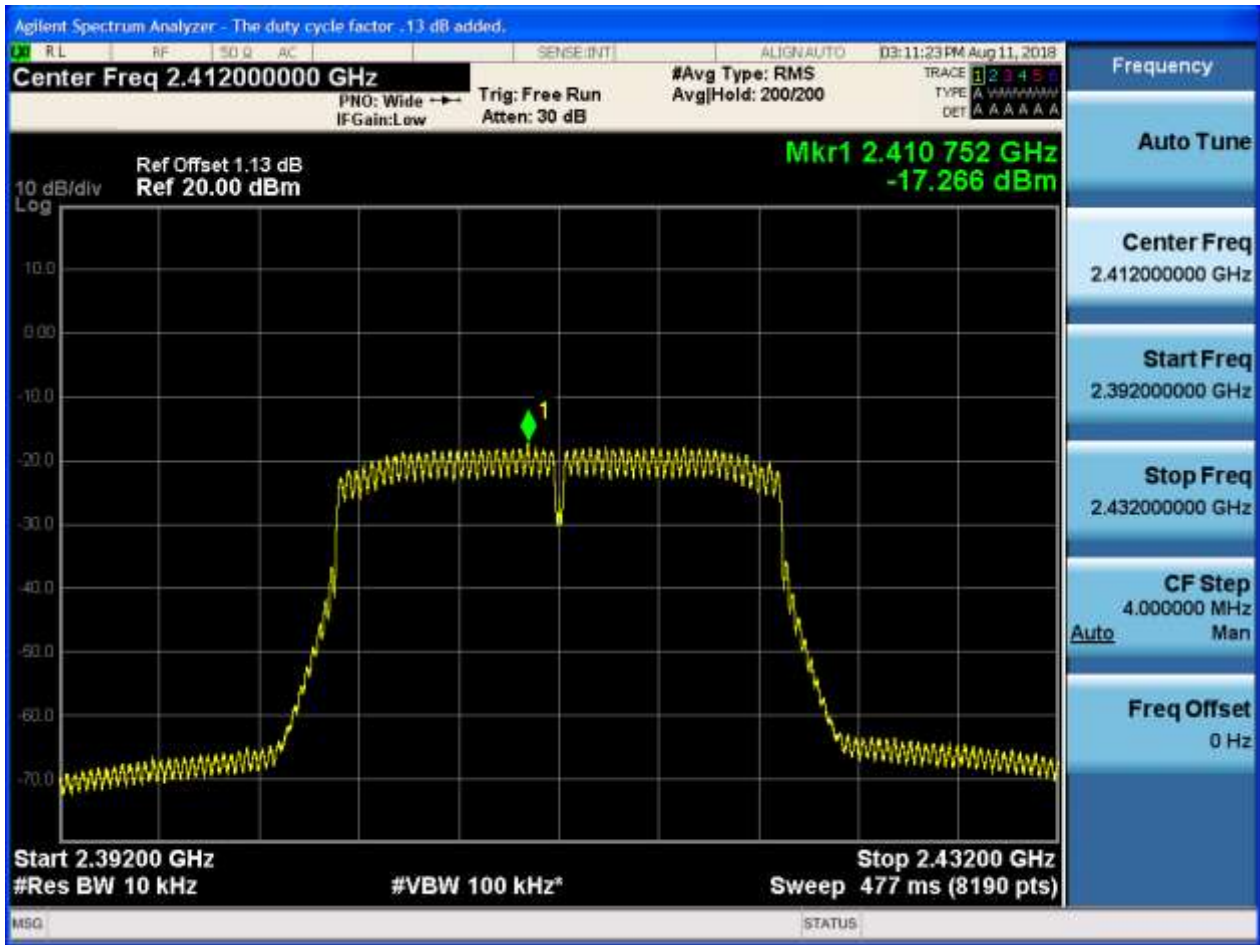
Mkr1 2.455 750 GHz
-16.653 dBm

Start 2.44200 GHz
#Res BW 10 kHz
#VBW 100 kHz*

Stop 2.48200 GHz
Sweep 477 ms (8190 pts)



2.27 11N20m_L_2412@Ant 1





2.28 11N20m_L_2412@Ant 2





2.29 11N20m_L_2417@Ant 1

