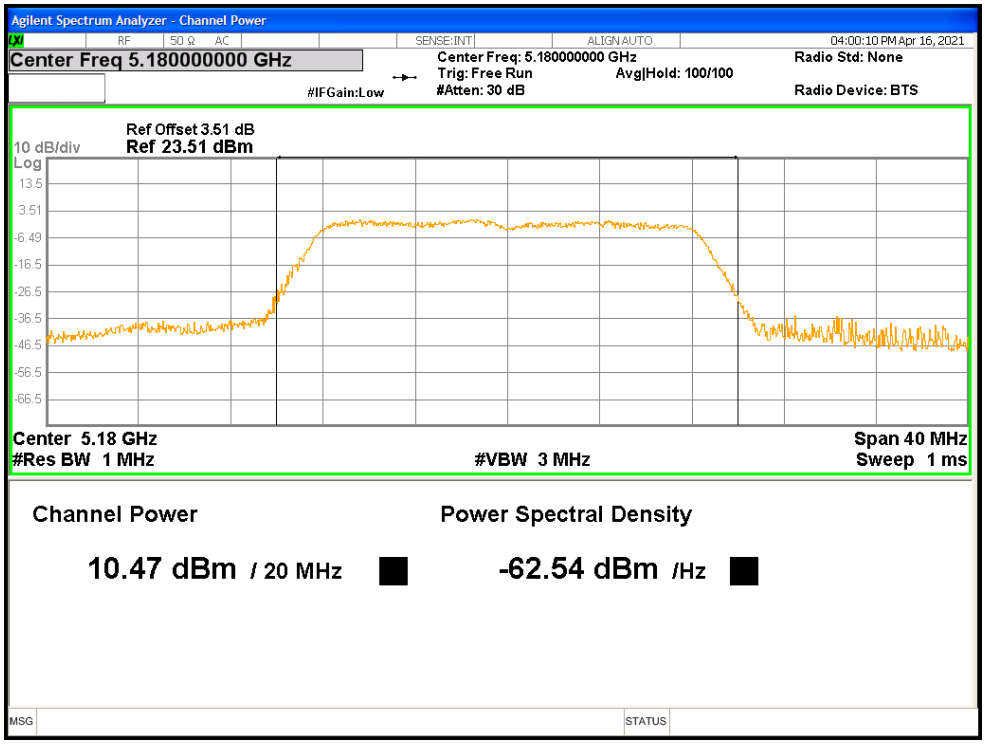
Appendix2: 5G WIFI RF TEST DATA

Maximum Conducted Output Power

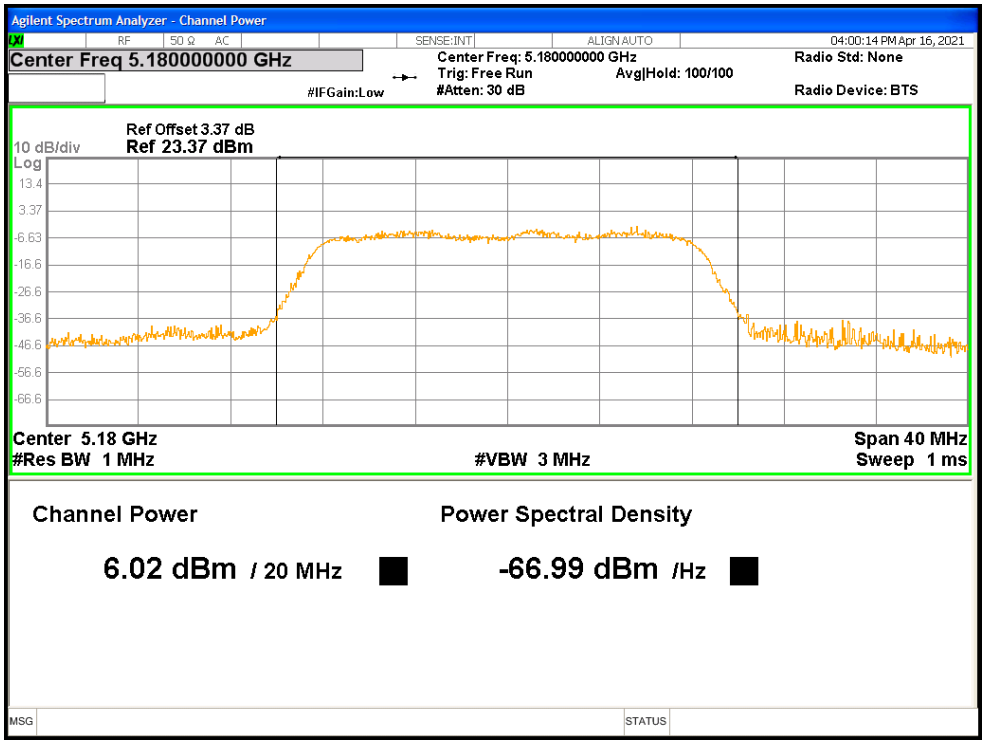
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.474	/	24	Pass
NVNT	a	5180	Ant2	6.021	/	24	Pass
NVNT	a	5180	Sum	/	/	24	Pass
NVNT	a	5200	Ant1	9.464	/	24	Pass
NVNT	a	5200	Ant2	6.03	/	24	Pass
NVNT	a	5200	Sum	/	/	24	Pass
NVNT	a	5240	Ant1	9.548	/	24	Pass
NVNT	a	5240	Ant2	6.057	/	24	Pass
NVNT	a	5240	Sum	/	/	24	Pass
NVNT	a	5745	Ant1	15.299	/	30	Pass
NVNT	a	5745	Ant2	10.003	/	30	Pass
NVNT	a	5745	Sum	/	/	30	Pass
NVNT	a	5785	Ant1	16.642	/	30	Pass
NVNT	a	5785	Ant2	7.653	/	30	Pass
NVNT	a	5785	Sum	/	/	30	Pass
NVNT	a	5825	Ant1	16.905	/	30	Pass
NVNT	a	5825	Ant2	7.078	/	30	Pass
NVNT	a	5825	Sum	/	/	30	Pass
NVNT	ac20	5180	Ant1	7.739	7.739	24	Pass
NVNT	ac20	5180	Ant2	11.392	11.392	24	Pass
NVNT	ac20	5180	Sum	12.949	12.949	24	Pass
NVNT	ac20	5200	Ant1	7.596	7.596	24	Pass
NVNT	ac20	5200	Ant2	10.583	10.583	24	Pass
NVNT	ac20	5200	Sum	12.352	12.352	24	Pass
NVNT	ac20	5240	Ant1	6.305	6.305	24	Pass
NVNT	ac20	5240	Ant2	8.436	8.436	24	Pass
NVNT	ac20	5240	Sum	10.51	10.51	24	Pass
NVNT	ac20	5745	Ant1	10.507	10.507	30	Pass
NVNT	ac20	5745	Ant2	15.318	15.318	30	Pass
NVNT	ac20	5745	Sum	16.557	16.557	30	Pass
NVNT	ac20	5785	Ant1	8.651	8.651	30	Pass
NVNT	ac20	5785	Ant2	17.081	17.081	30	Pass
NVNT	ac20	5785	Sum	17.664	17.664	30	Pass
NVNT	ac20	5825	Ant1	7.658	7.658	30	Pass
NVNT	ac20	5825	Ant2	17.914	17.914	30	Pass
NVNT	ac20	5825	Sum	18.305	18.305	30	Pass
NVNT	ac40	5755	Ant1	9.717	9.717	30	Pass
NVNT	ac40	5190	Ant1	5.233	5.233	24	Pass
NVNT	ac40	5190	Ant2	9.703	9.703	24	Pass
NVNT	ac40	5190	Sum	11.03	11.03	24	Pass
NVNT	ac40	5230	Ant1	3.685	3.685	24	Pass

NVNT	ac40	5230	Ant2	8.938	8.938	24	Pass
NVNT	ac40	5230	Sum	10.072	10.072	24	Pass
NVNT	ac40	5755	Ant1	9.778	9.778	30	Pass
NVNT	ac40	5755	Ant2	14.547	14.547	30	Pass
NVNT	ac40	5755	Sum	15.797	15.797	30	Pass
NVNT	ac40	5795	Ant1	6.091	6.091	30	Pass
NVNT	ac40	5795	Ant2	15.038	15.038	30	Pass
NVNT	ac40	5795	Sum	15.559	15.559	30	Pass
NVNT	ac80	5210	Ant1	10.337	10.337	24	Pass
NVNT	ac80	5210	Ant2	7.194	7.194	24	Pass
NVNT	ac80	5210	Sum	12.054	12.054	24	Pass
NVNT	ac80	5775	Ant1	13.15	13.15	30	Pass
NVNT	ac80	5775	Ant2	8.749	8.749	30	Pass
NVNT	ac80	5775	Sum	14.495	14.495	30	Pass
NVNT	n20	5180	Ant1	11.952	11.952	24	Pass
NVNT	n20	5180	Ant2	6.201	6.201	24	Pass
NVNT	n20	5180	Sum	12.976	12.976	24	Pass
NVNT	n20	5200	Ant1	10.696	10.696	24	Pass
NVNT	n20	5200	Ant2	7.923	7.923	24	Pass
NVNT	n20	5200	Sum	12.537	12.537	24	Pass
NVNT	n20	5240	Ant1	10.235	10.235	24	Pass
NVNT	n20	5240	Ant2	7.648	7.648	24	Pass
NVNT	n20	5240	Sum	12.142	12.142	24	Pass
NVNT	n20	5745	Ant1	14.551	14.551	30	Pass
NVNT	n20	5745	Ant2	8.908	8.908	30	Pass
NVNT	n20	5745	Sum	15.598	15.598	30	Pass
NVNT	n20	5785	Ant1	10.662	10.662	30	Pass
NVNT	n20	5785	Ant2	6.46	6.46	30	Pass
NVNT	n20	5785	Sum	12.061	12.061	30	Pass
NVNT	n20	5825	Ant1	11.005	11.005	30	Pass
NVNT	n20	5825	Ant2	4.772	4.772	30	Pass
NVNT	n20	5825	Sum	11.932	11.932	30	Pass
NVNT	n40	5190	Ant1	10.783	10.783	24	Pass
NVNT	n40	5190	Ant2	5.933	5.933	24	Pass
NVNT	n40	5190	Sum	12.013	12.013	24	Pass
NVNT	n40	5230	Ant1	9.572	9.572	24	Pass
NVNT	n40	5230	Ant2	7.204	7.204	24	Pass
NVNT	n40	5230	Sum	11.558	11.558	24	Pass
NVNT	n40	5755	Ant1	12.185	12.185	30	Pass
NVNT	n40	5755	Ant2	6.689	6.689	30	Pass
NVNT	n40	5755	Sum	13.264	13.264	30	Pass
NVNT	n40	5795	Ant1	7.448	7.448	30	Pass
NVNT	n40	5795	Ant2	6.138	6.138	30	Pass
NVNT	n40	5795	Sum	9.853	9.853	30	Pass

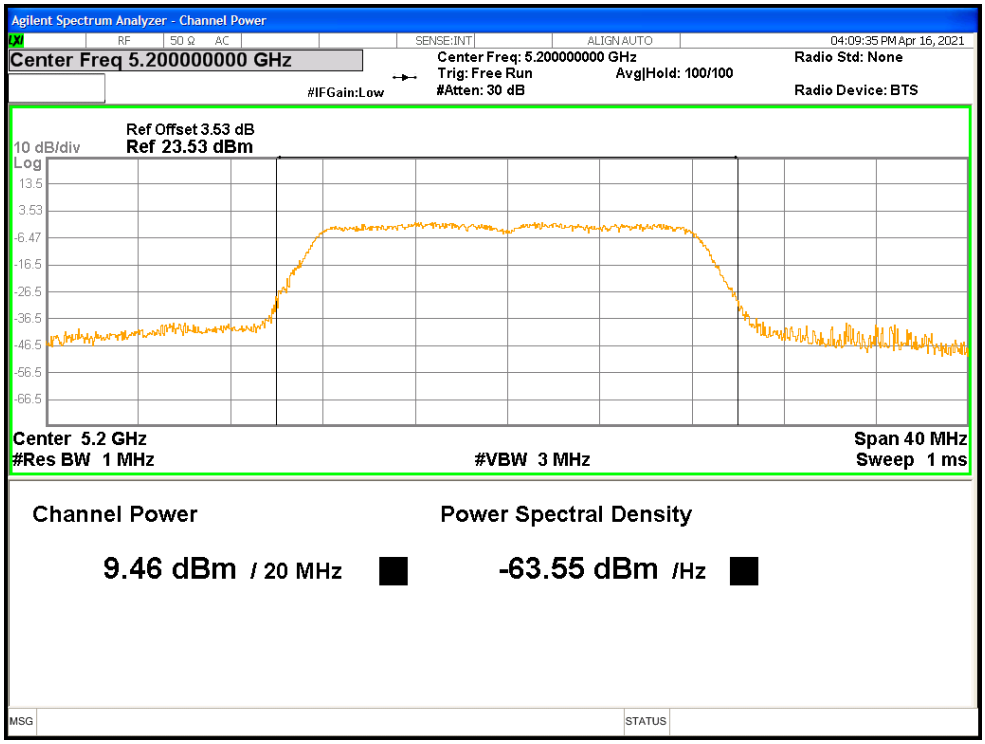
Power NVNT a 5180MHz Ant1



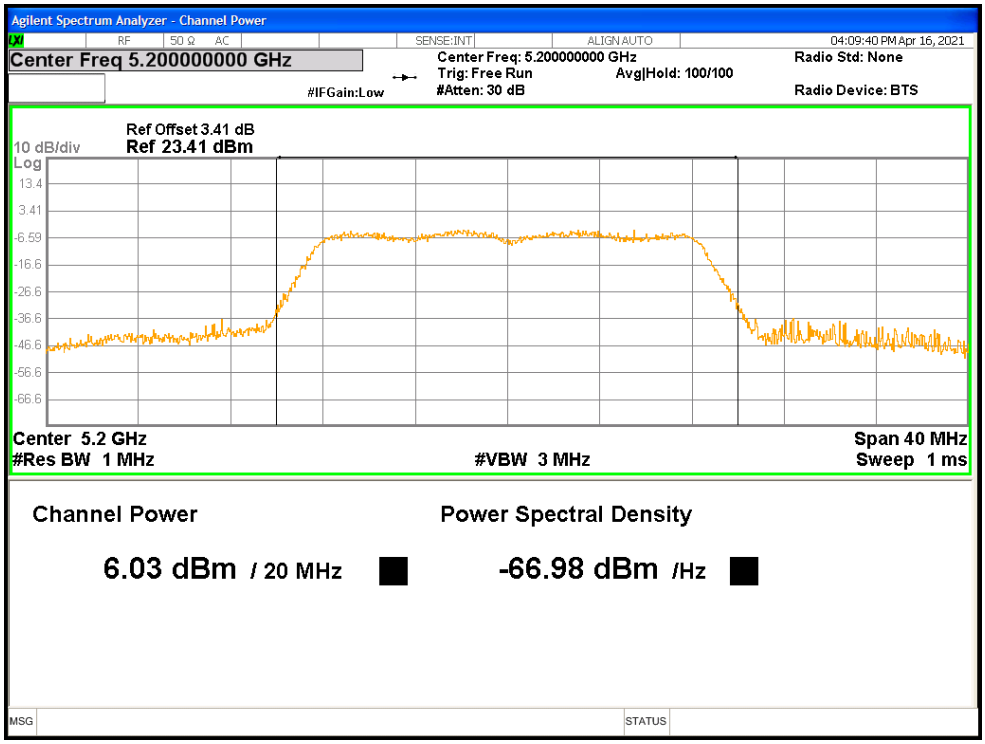
Power NVNT a 5180MHz Ant2



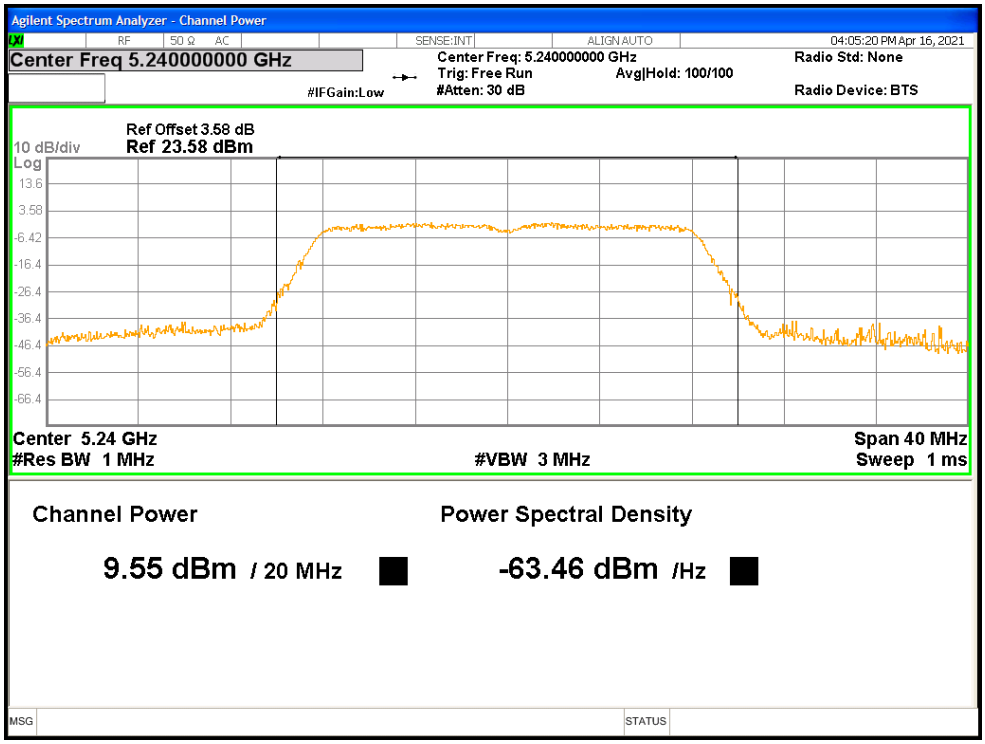
Power NVNT a 5200MHz Ant1



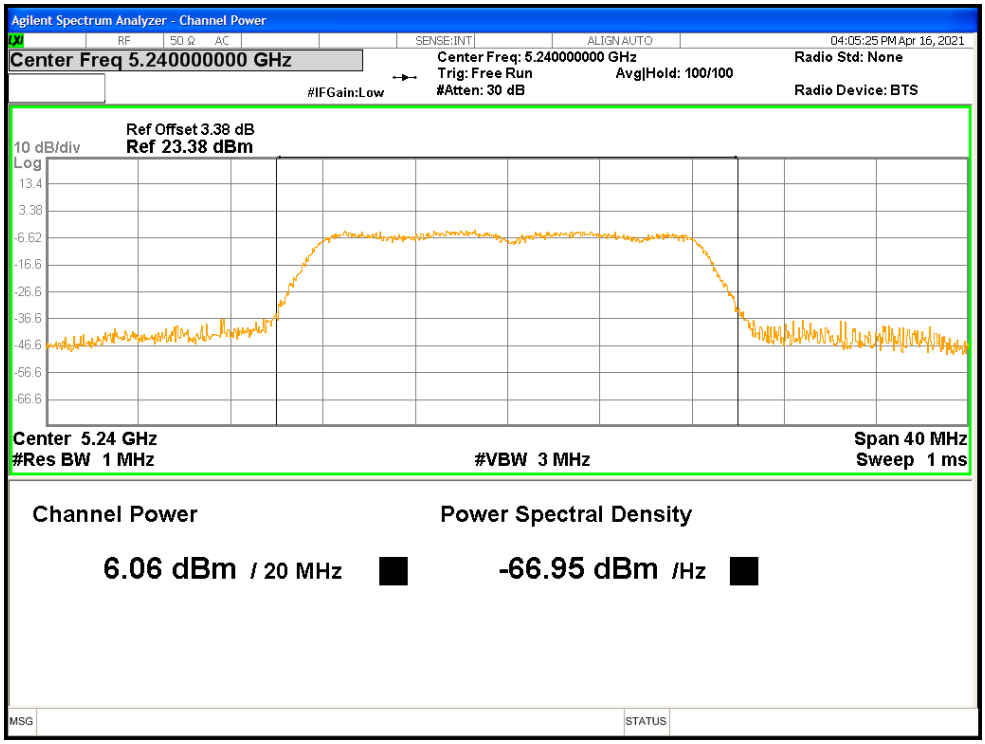
Power NVNT a 5200MHz Ant2



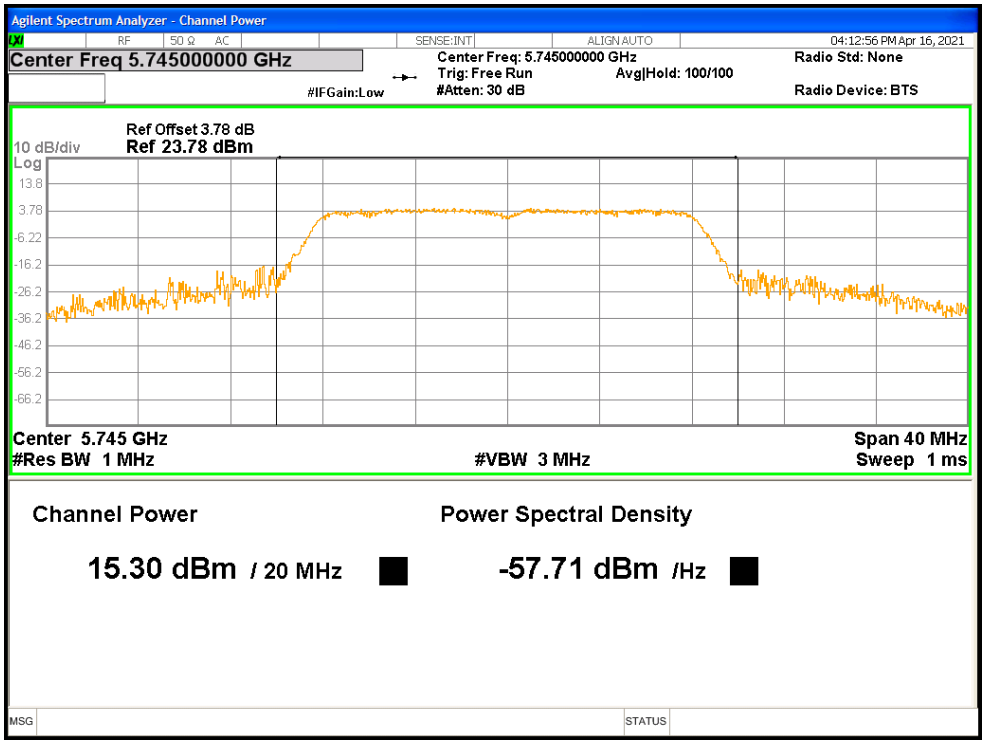
Power NVNT a 5240MHz Ant1



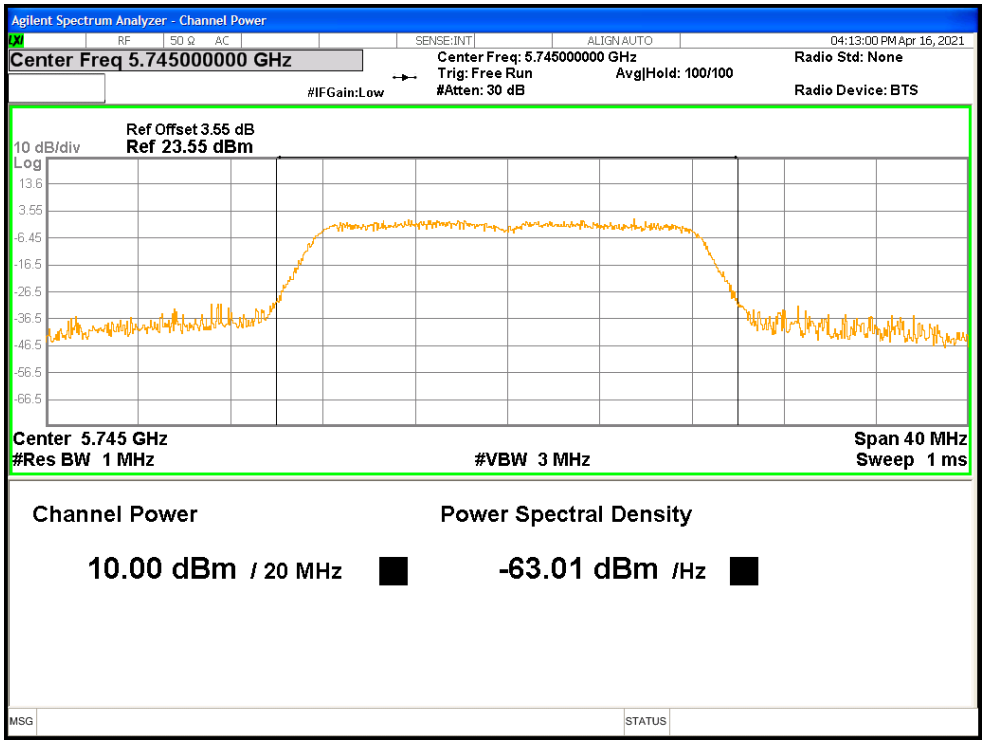
Power NVNT a 5240MHz Ant2



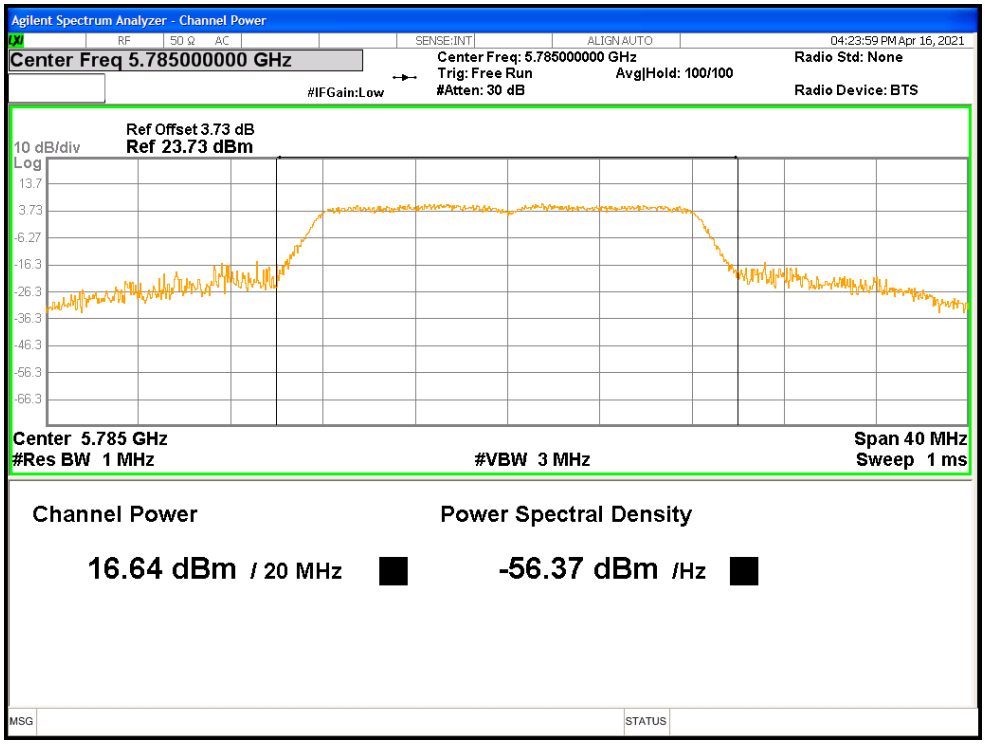
Power NVNT a 5745MHz Ant1



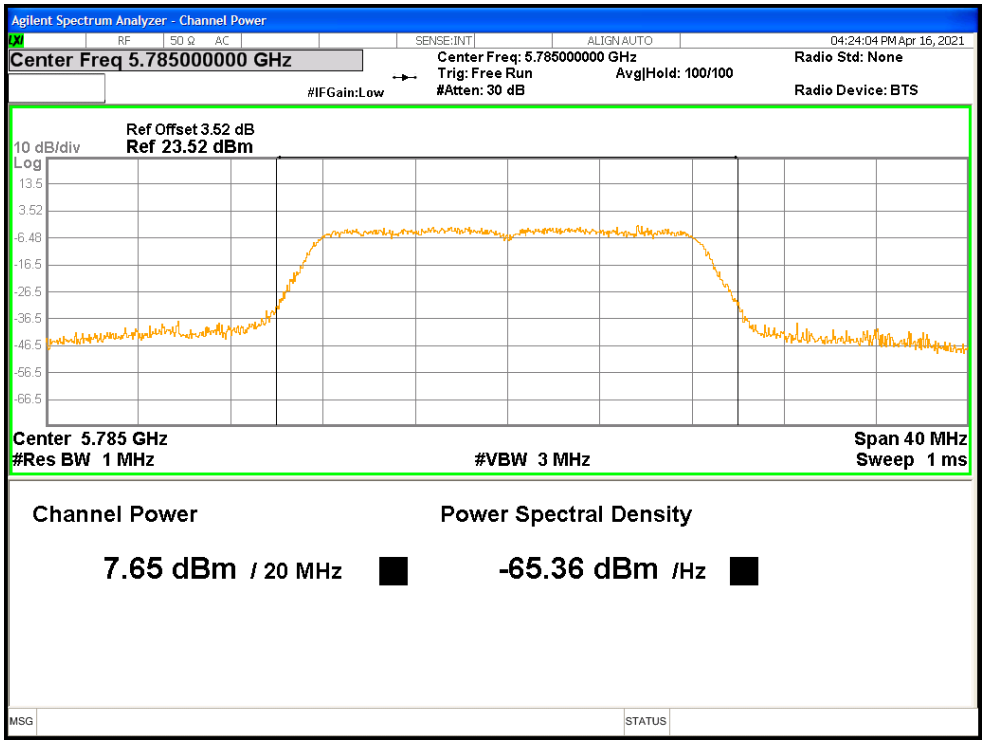
Power NVNT a 5745MHz Ant2



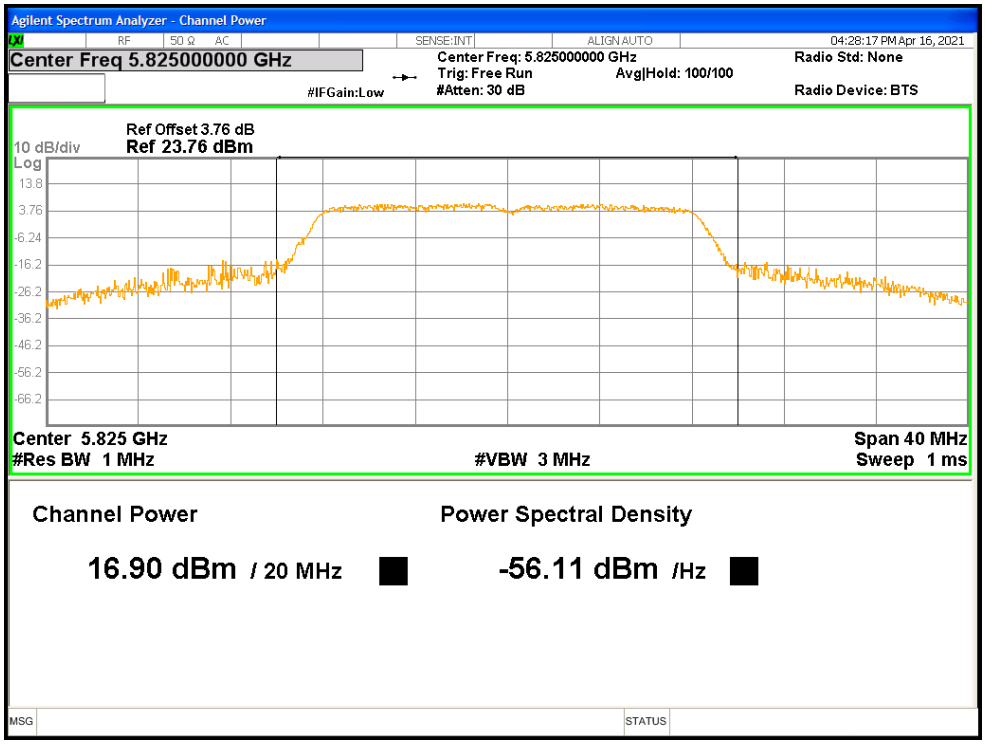
Power NVNT a 5785MHz Ant1



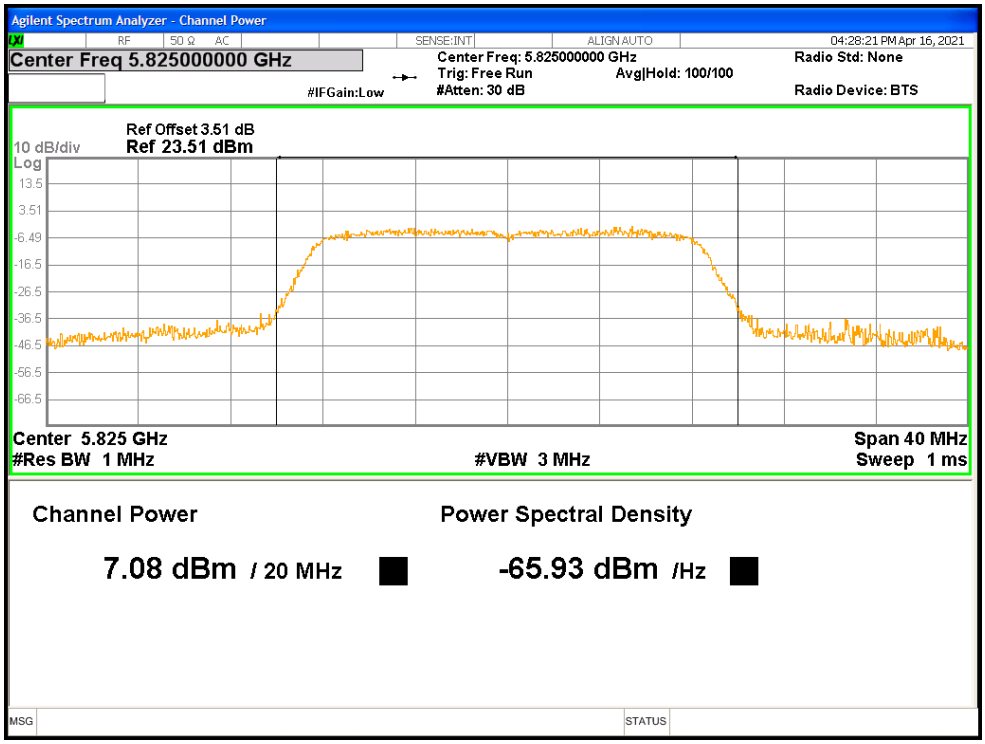
Power NVNT a 5785MHz Ant2



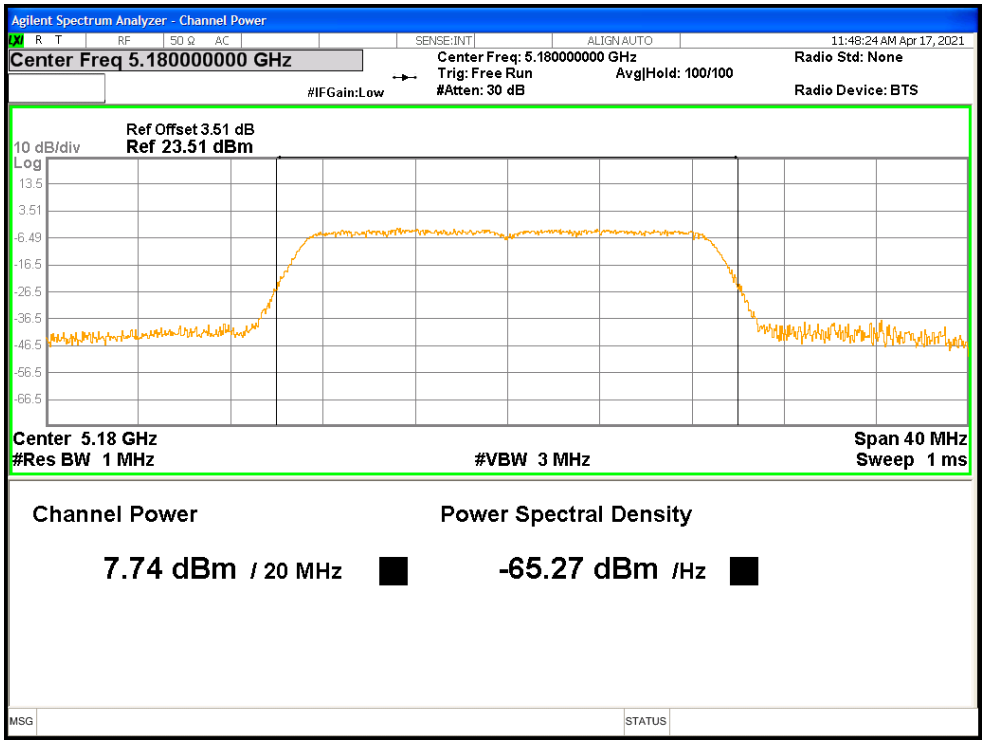
Power NVNT a 5825MHz Ant1



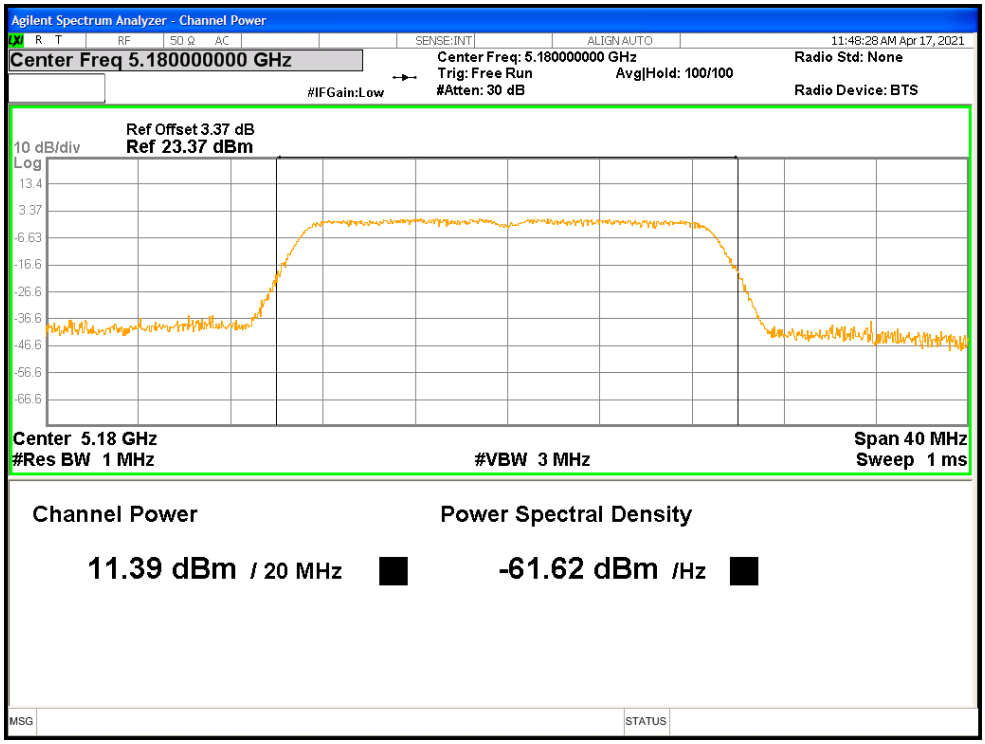
Power NVNT a 5825MHz Ant2



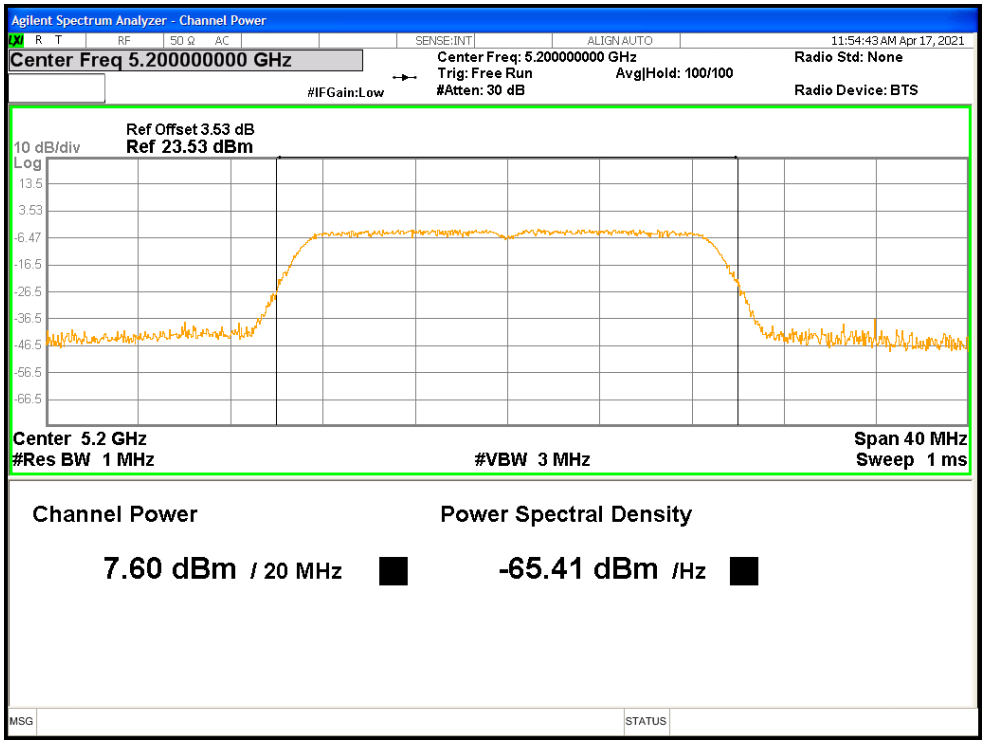
Power NVNT ac20 5180MHz Ant1



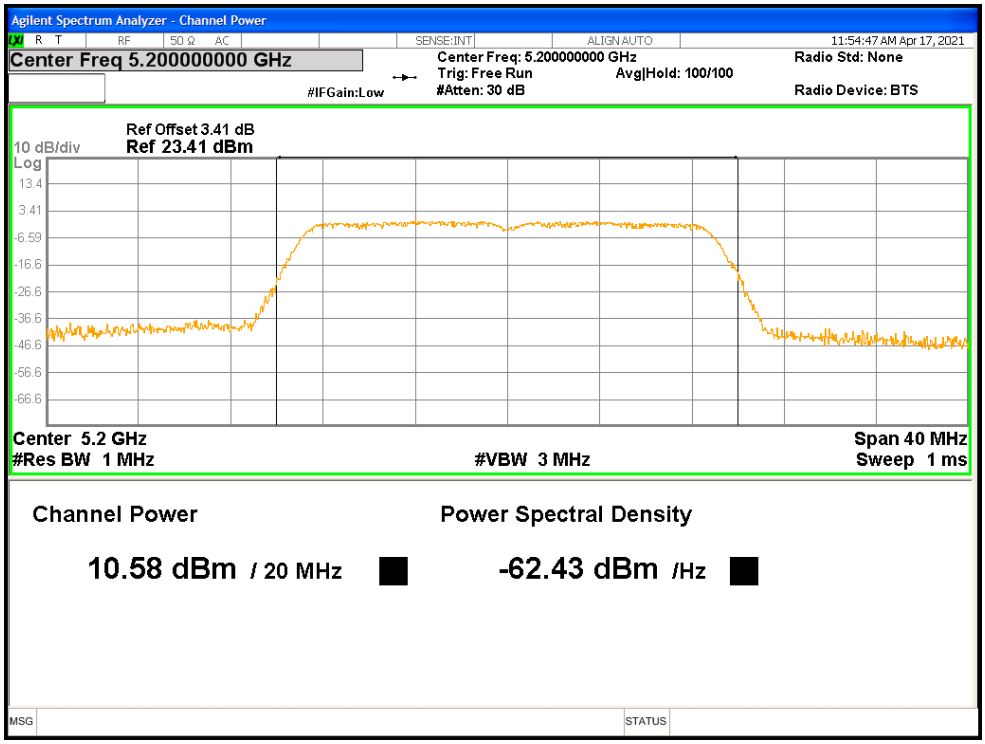
Power NVNT ac20 5180MHz Ant2



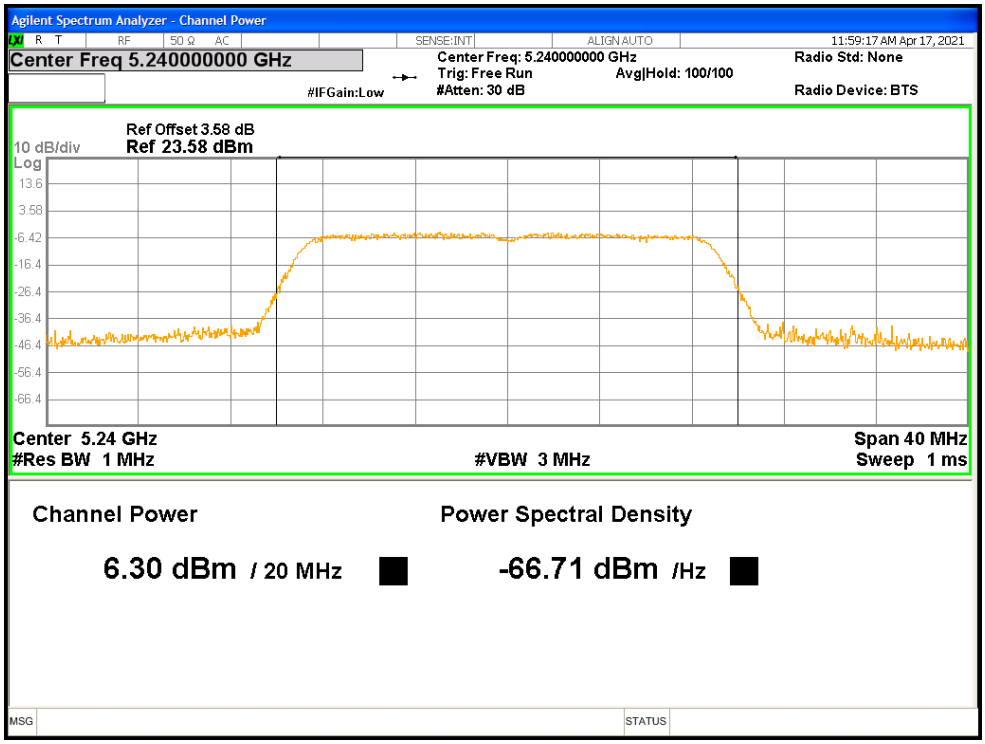
Power NVNT ac20 5200MHz Ant1



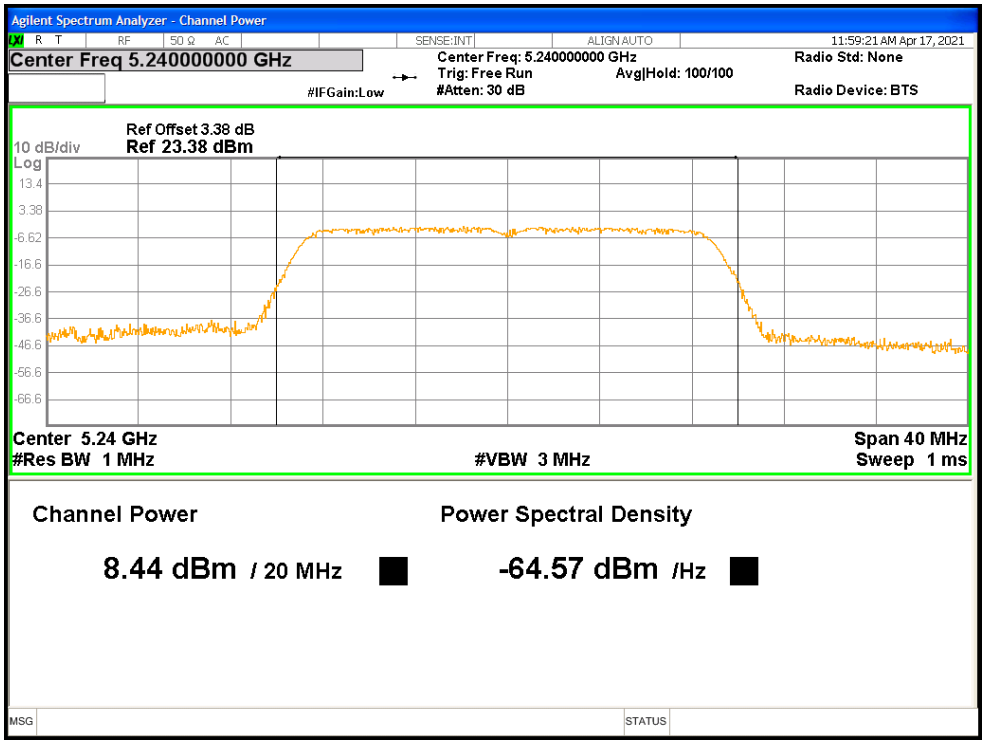
Power NVNT ac20 5200MHz Ant2



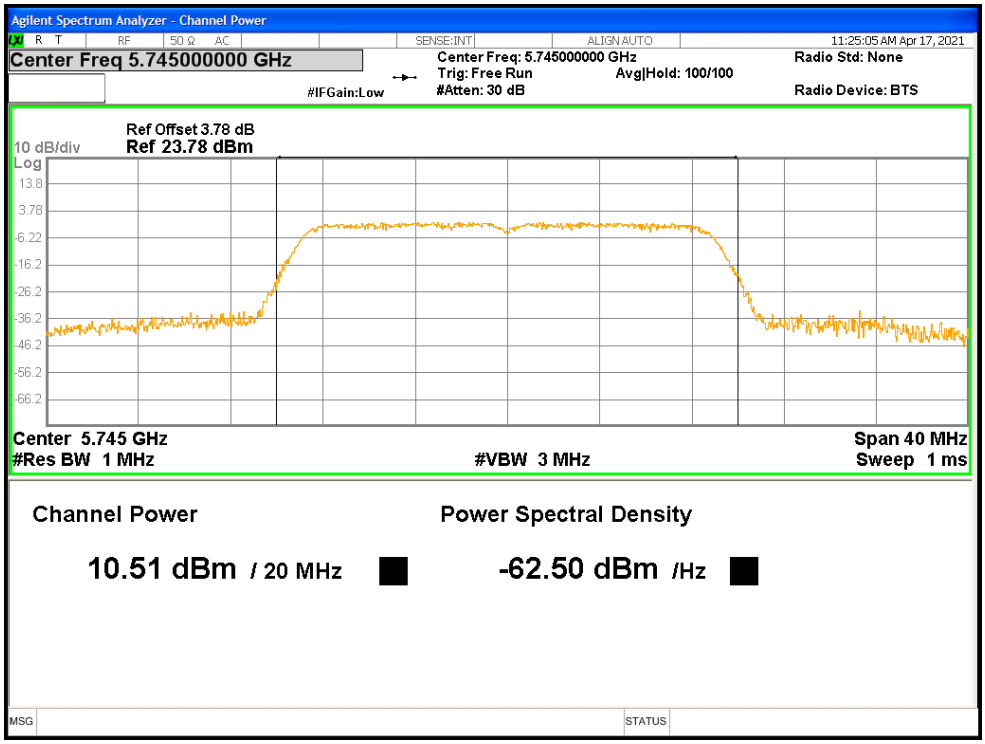
Power NVNT ac20 5240MHz Ant1



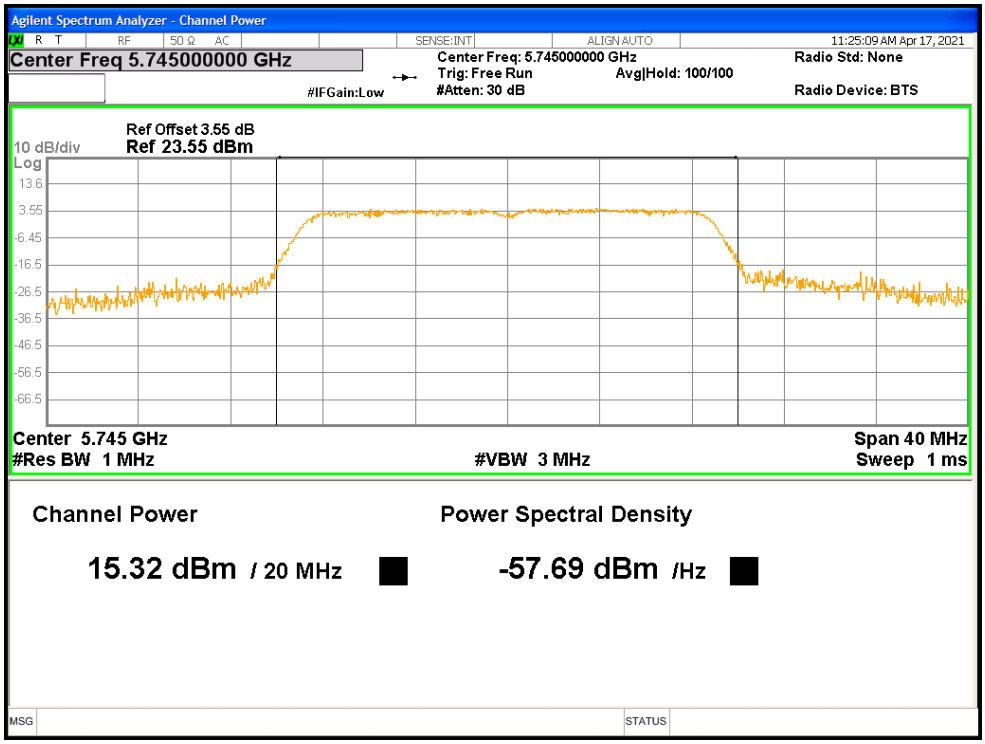
Power NVNT ac20 5240MHz Ant2



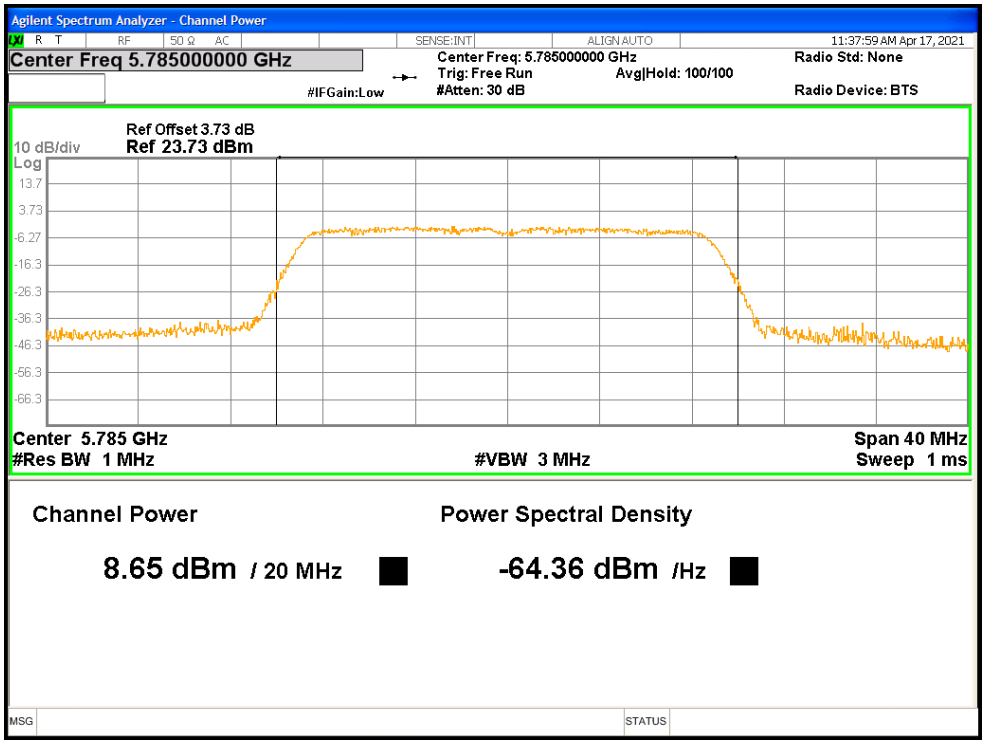
Power NVNT ac20 5745MHz Ant1



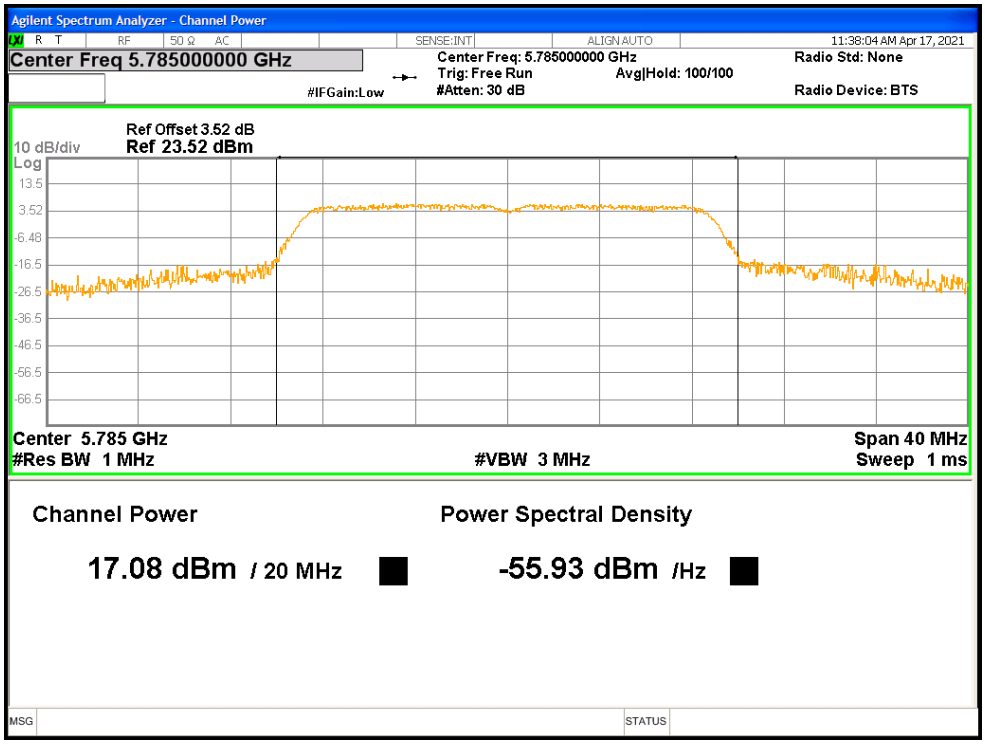
Power NVNT ac20 5745MHz Ant2



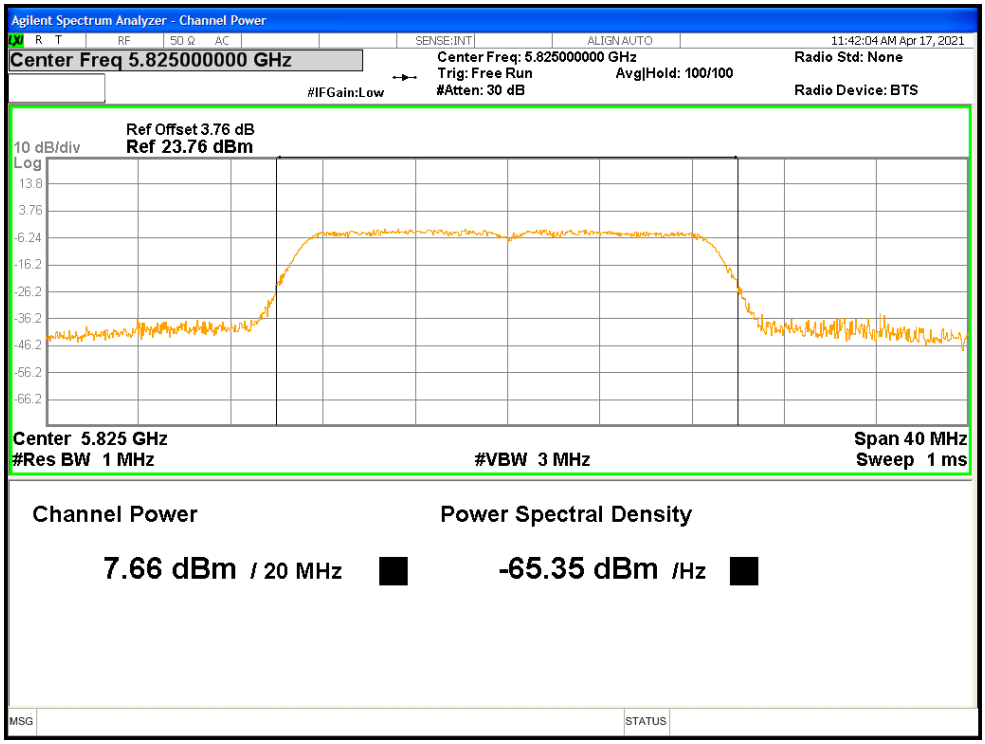
Power NVNT ac20 5785MHz Ant1



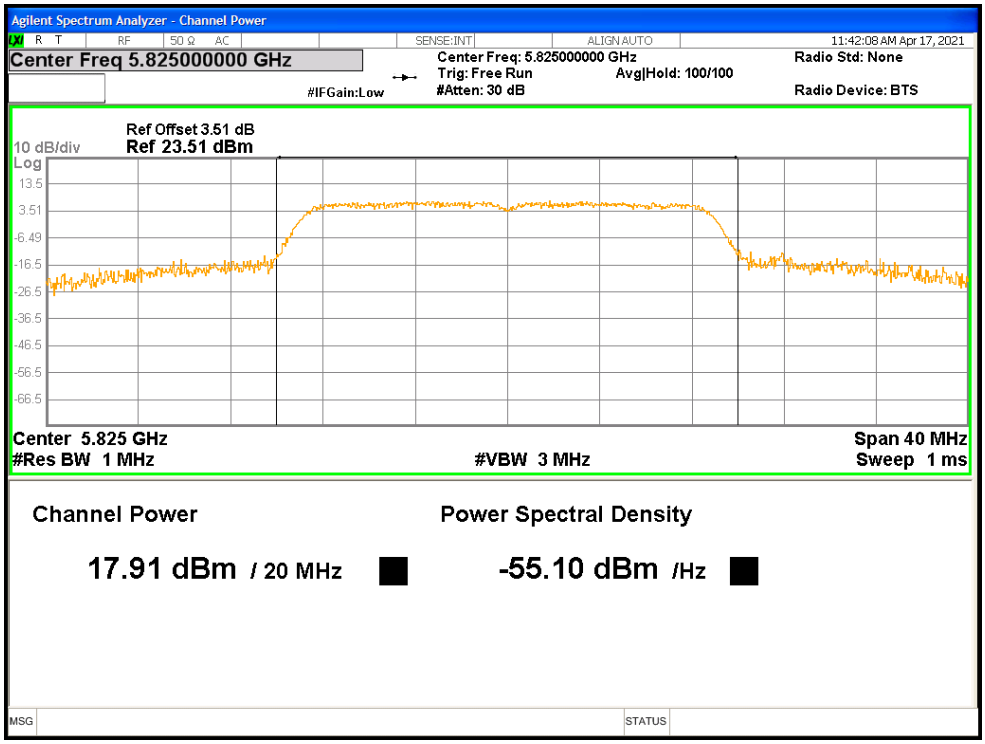
Power NVNT ac20 5785MHz Ant2



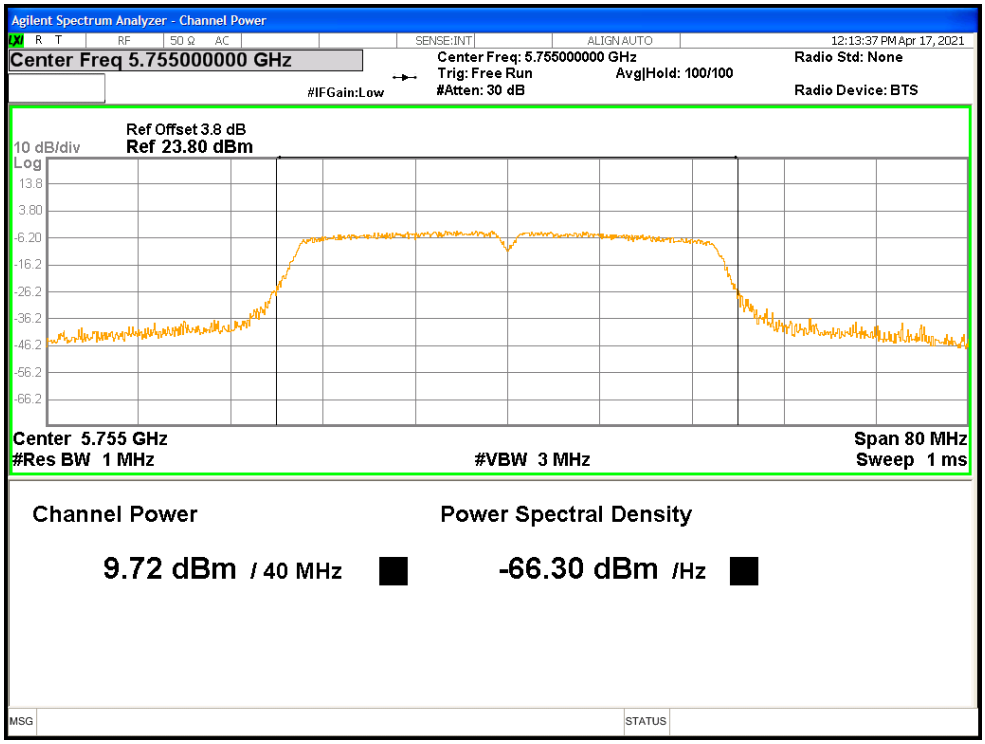
Power NVNT ac20 5825MHz Ant1



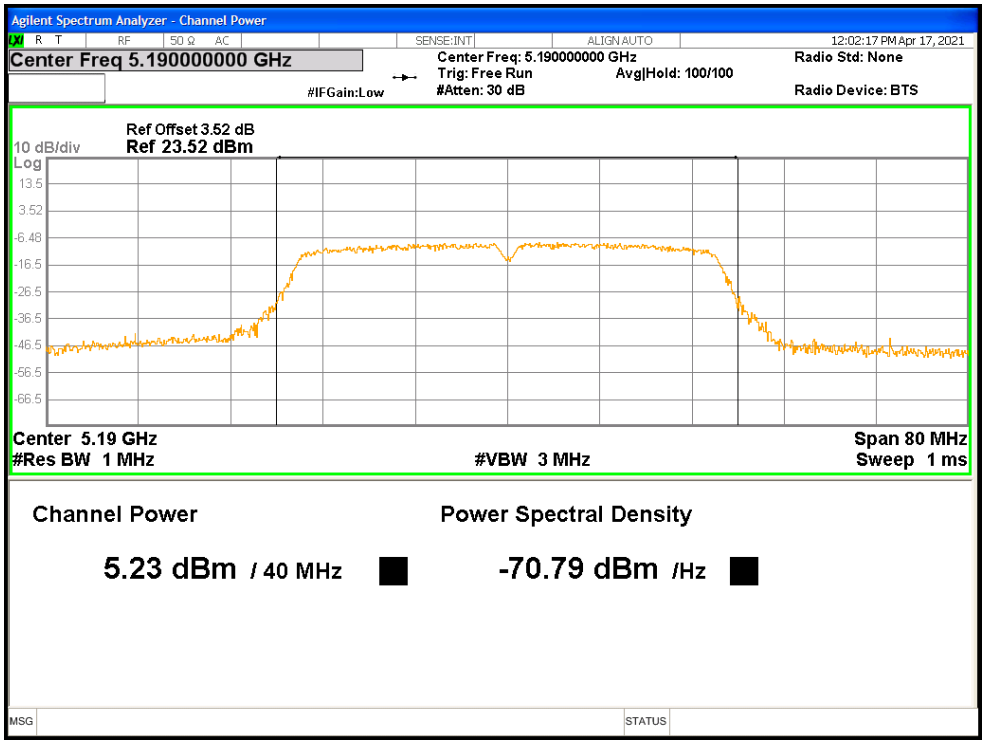
Power NVNT ac20 5825MHz Ant2



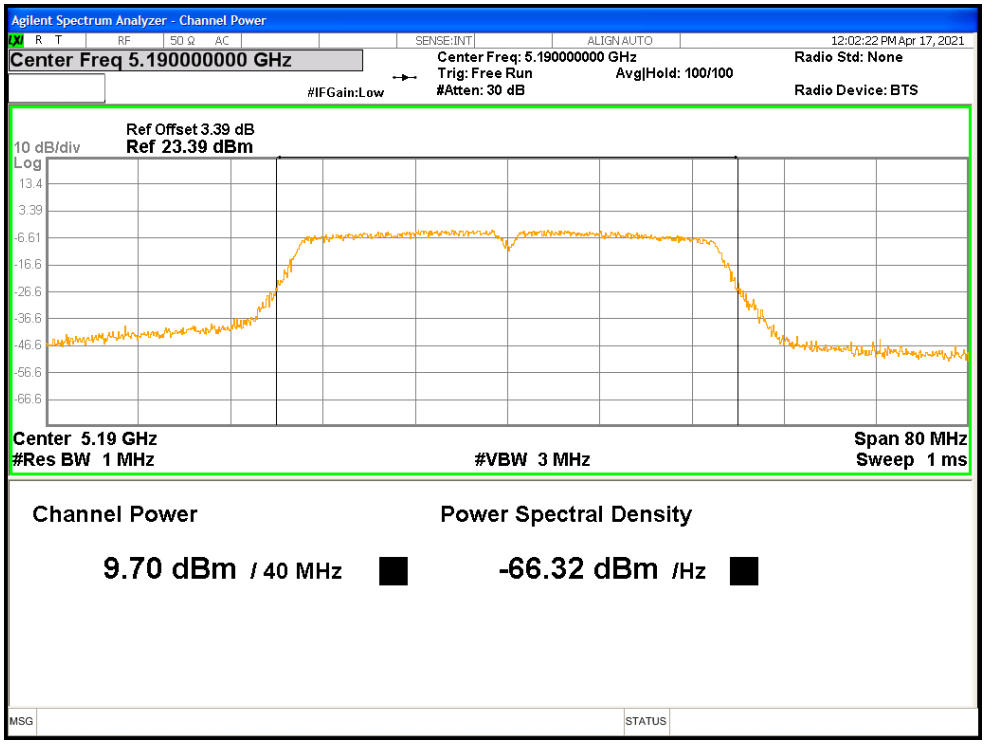
Power NVNT ac40 5755MHz Ant1



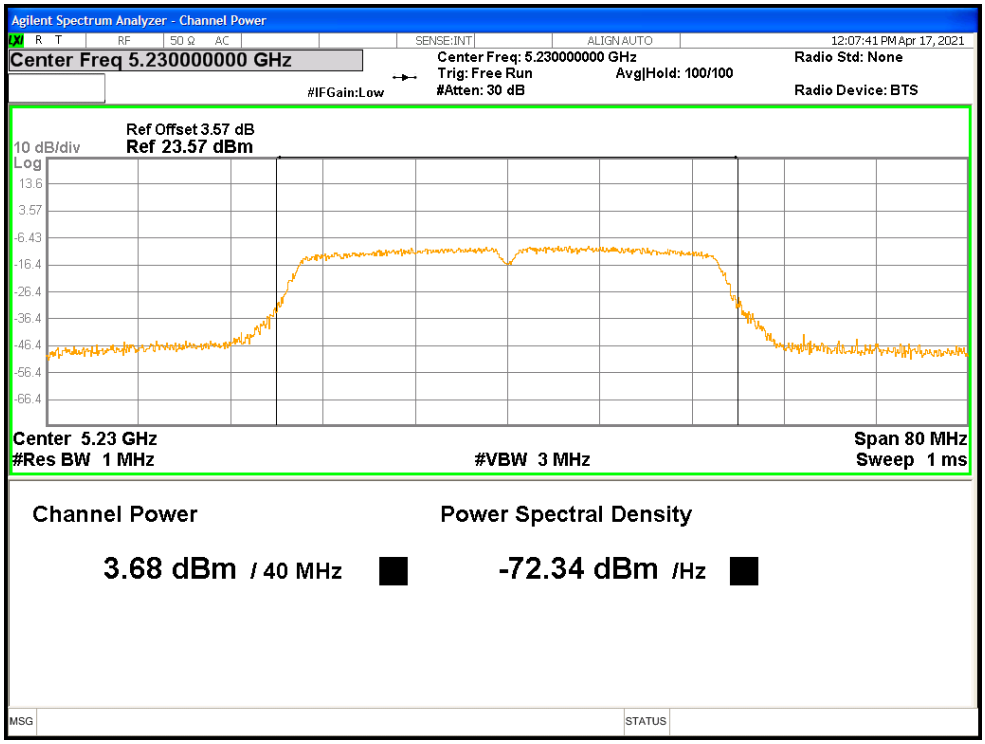
Power NVNT ac40 5190MHz Ant1



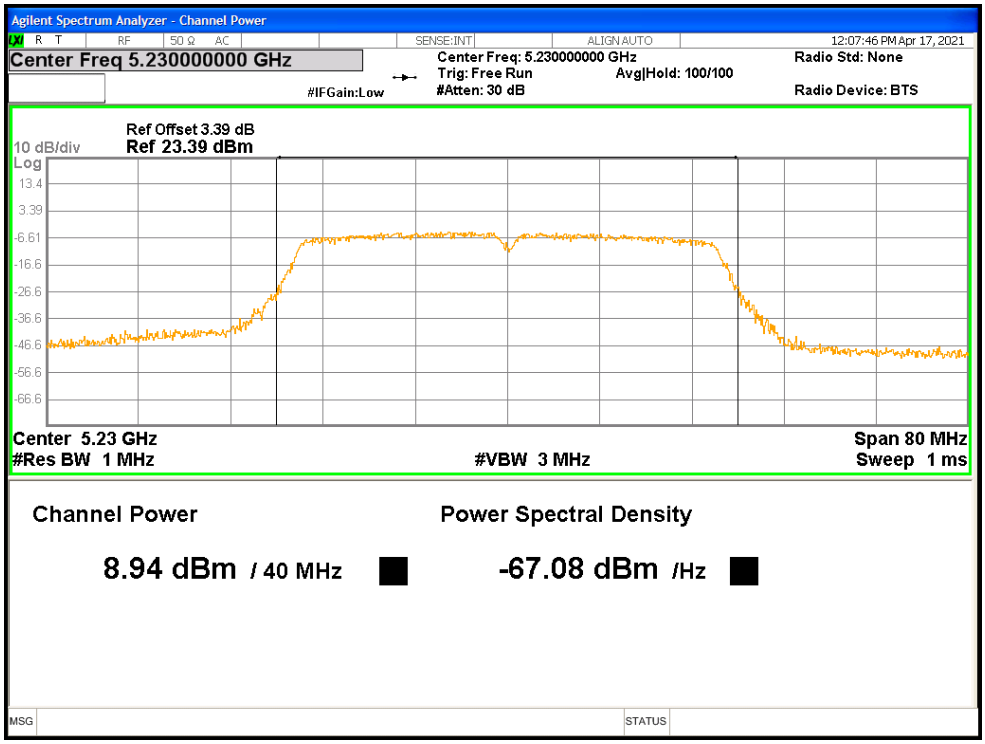
Power NVNT ac40 5190MHz Ant2



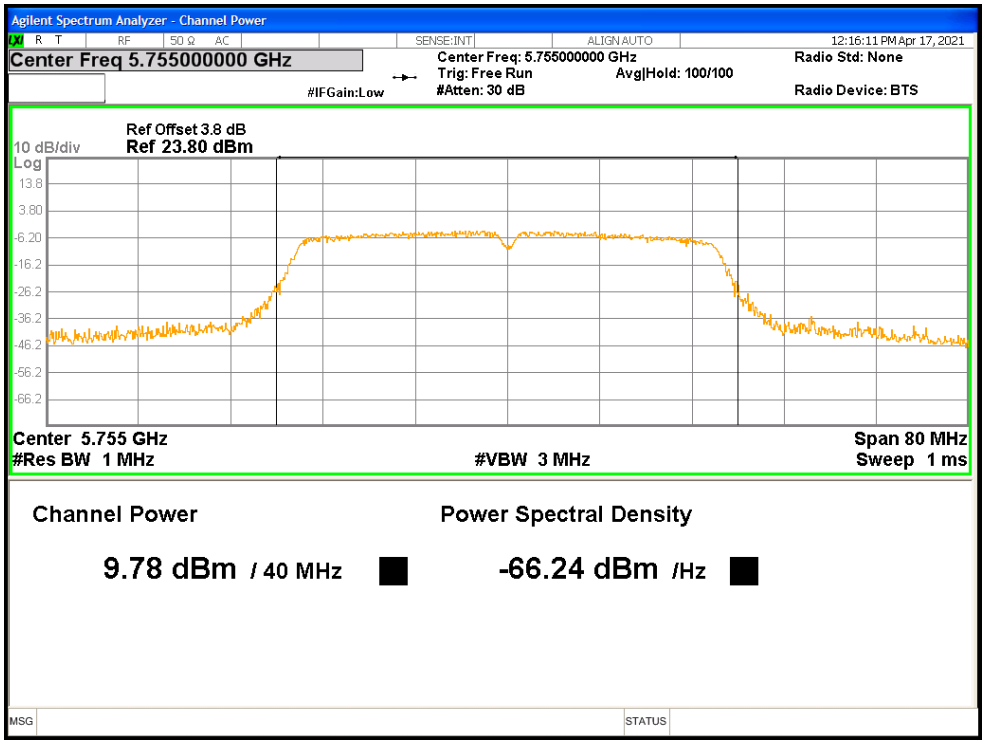
Power NVNT ac40 5230MHz Ant1



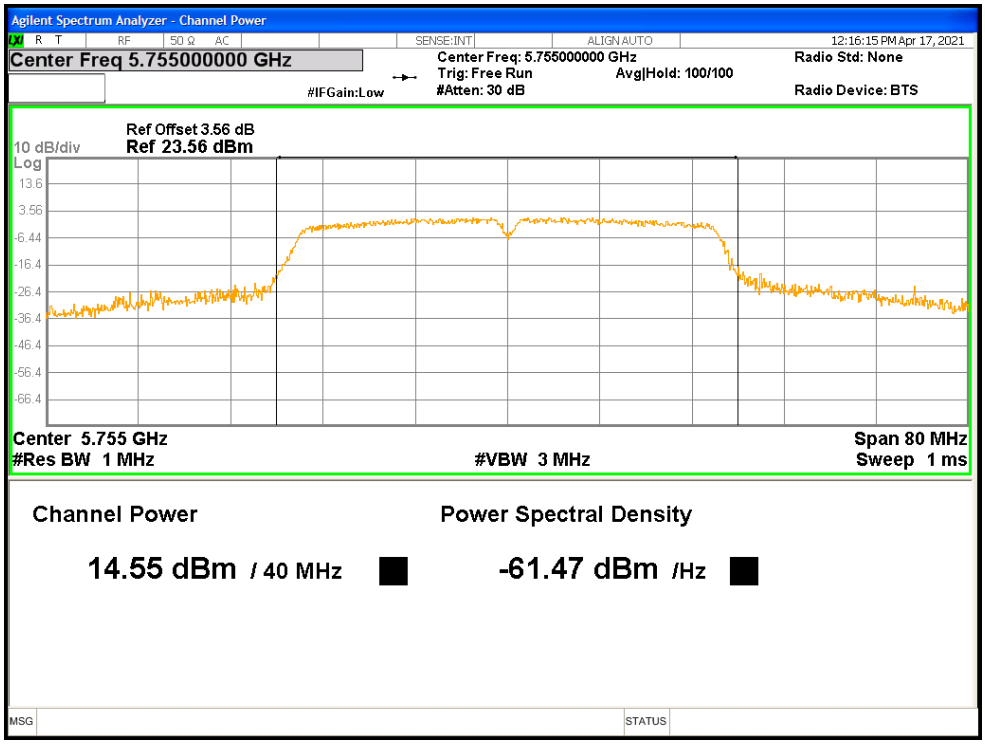
Power NVNT ac40 5230MHz Ant2



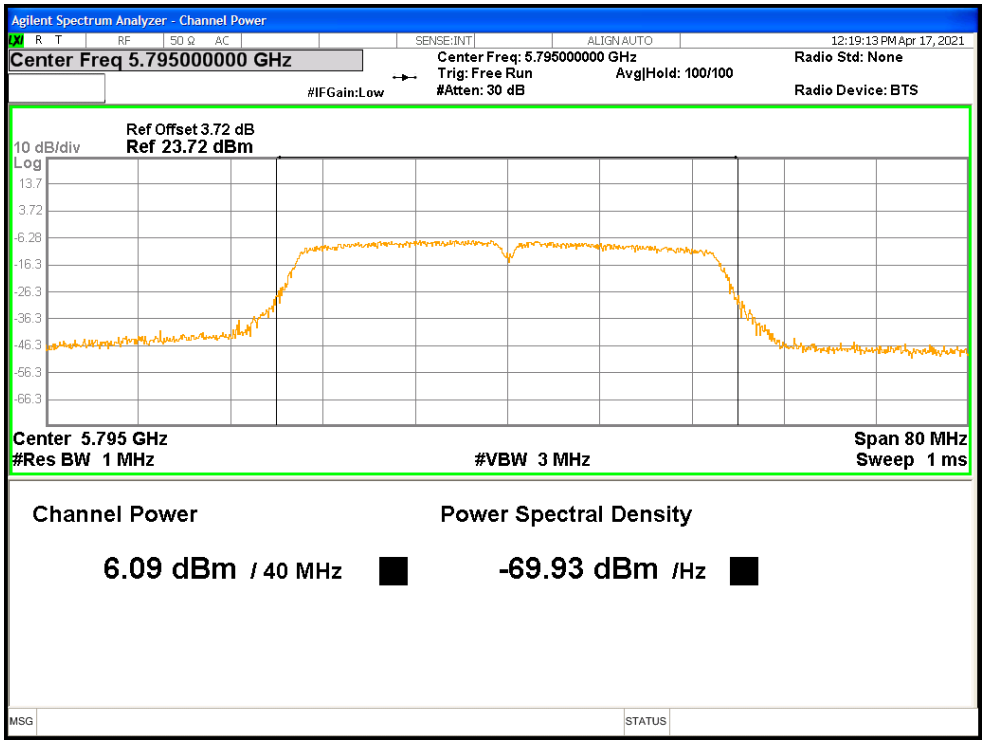
Power NVNT ac40 5755MHz Ant1



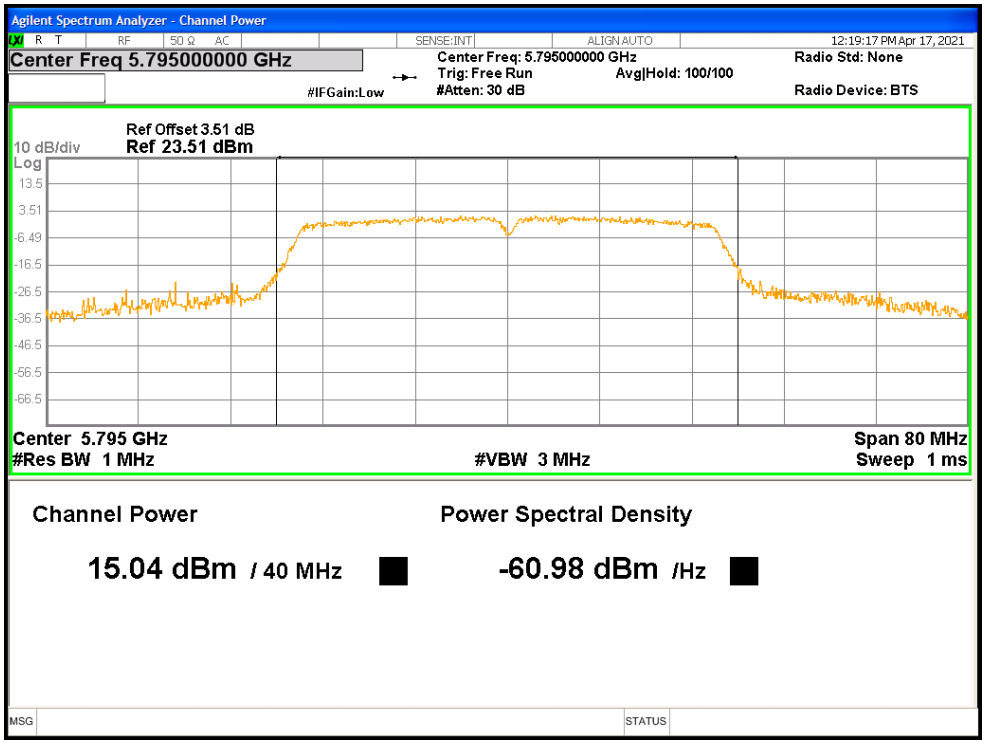
Power NVNT ac40 5755MHz Ant2



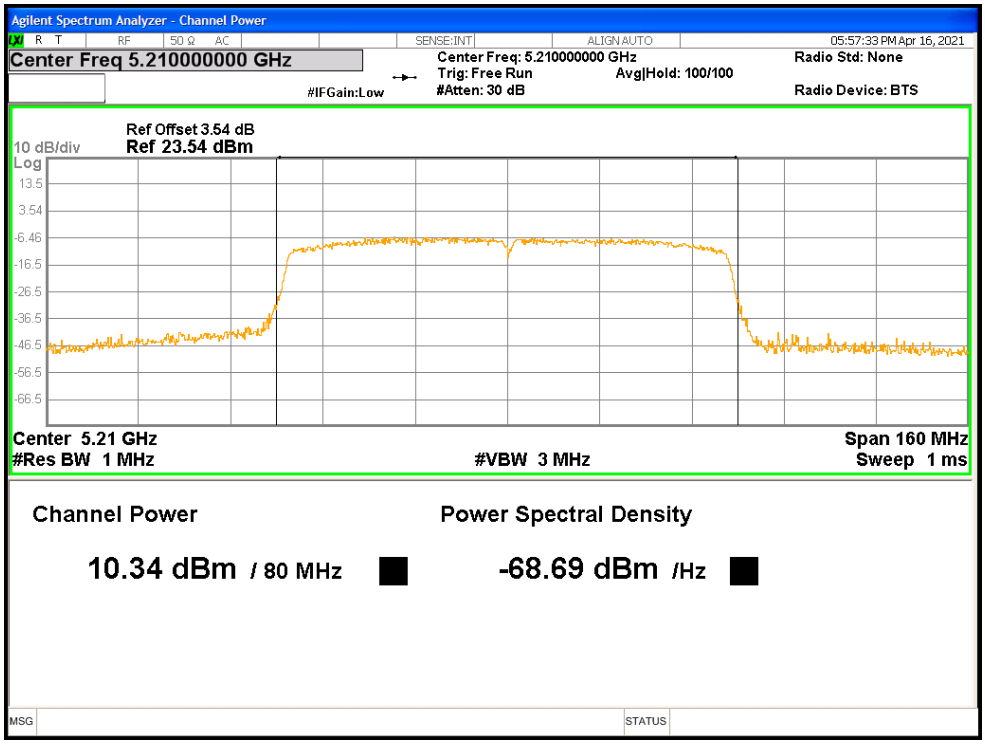
Power NVNT ac40 5795MHz Ant1



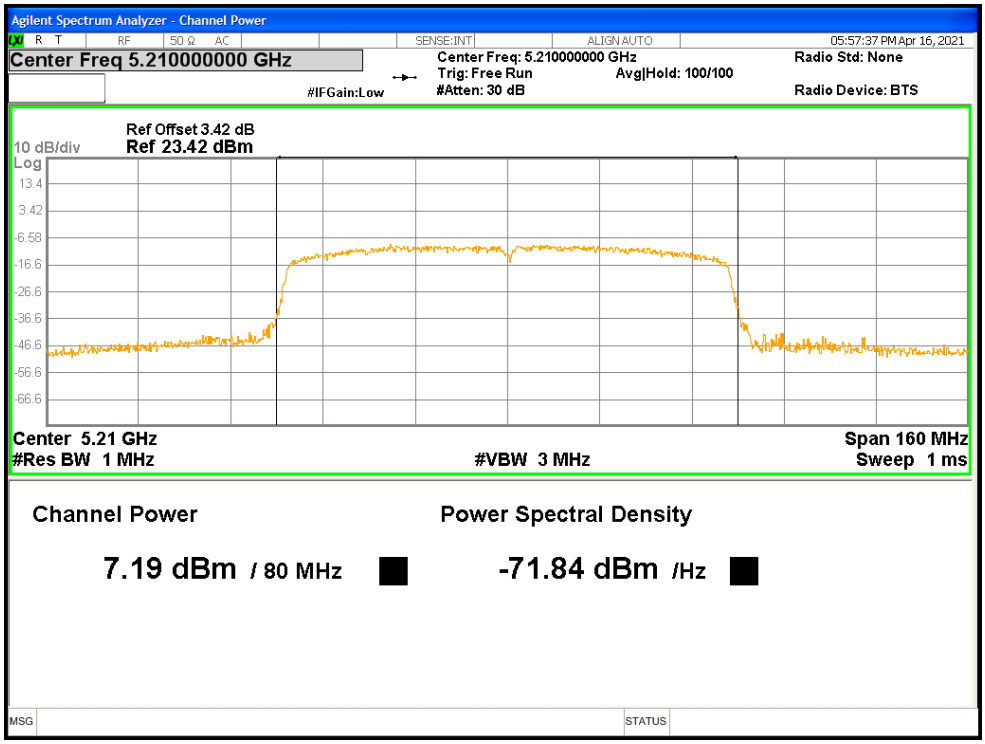
Power NVNT ac40 5795MHz Ant2



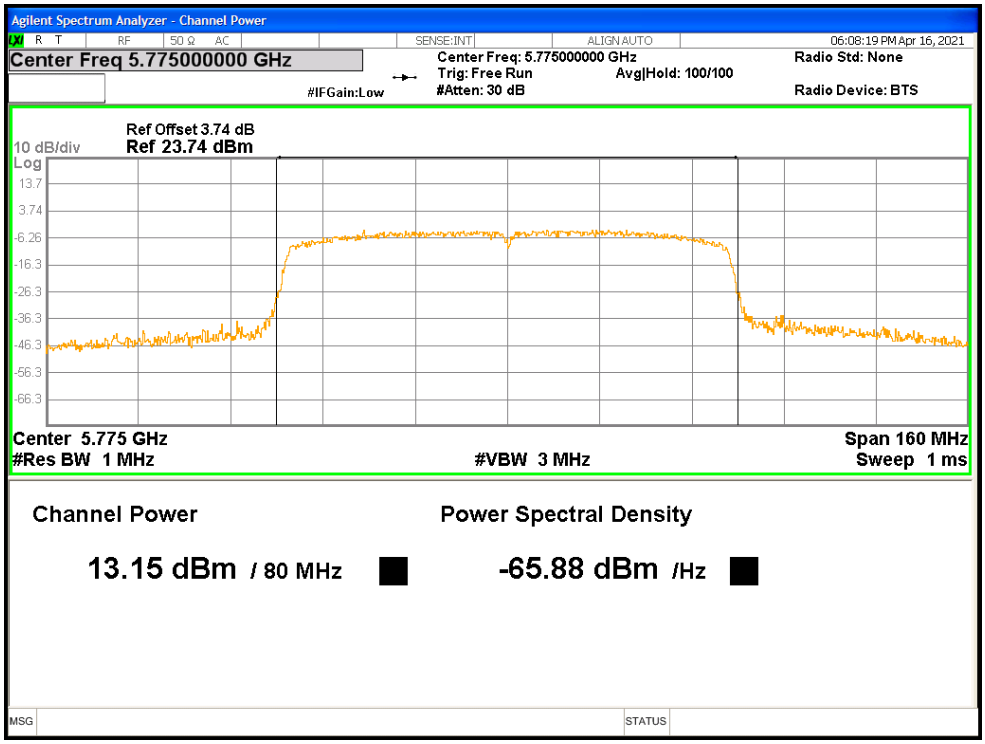
Power NVNT ac80 5210MHz Ant1



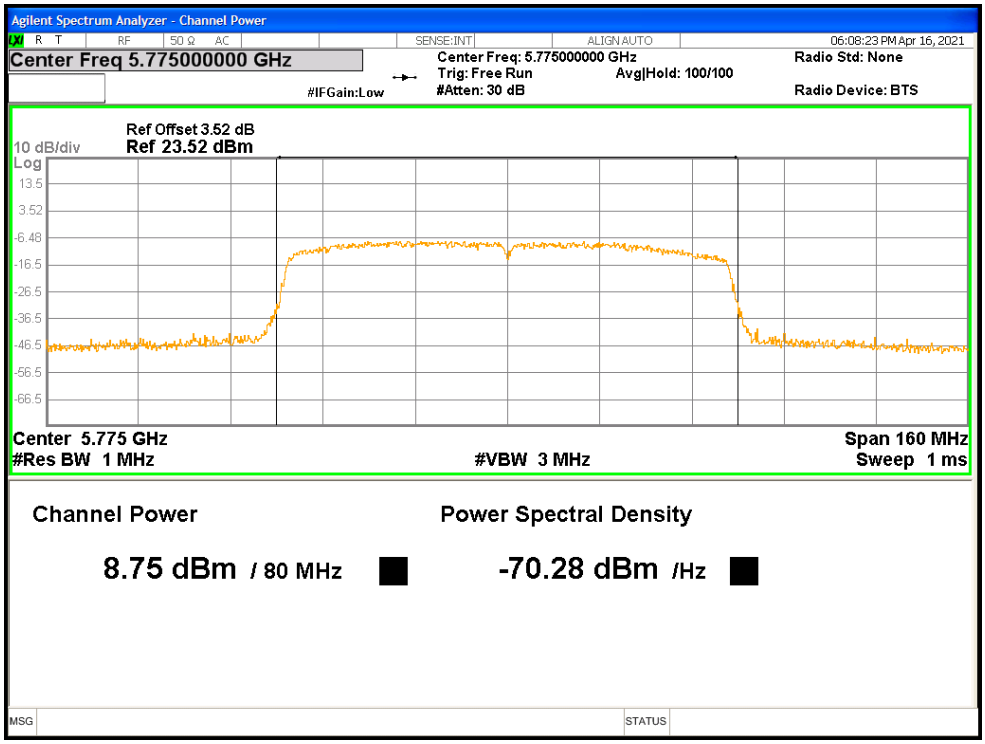
Power NVNT ac80 5210MHz Ant2



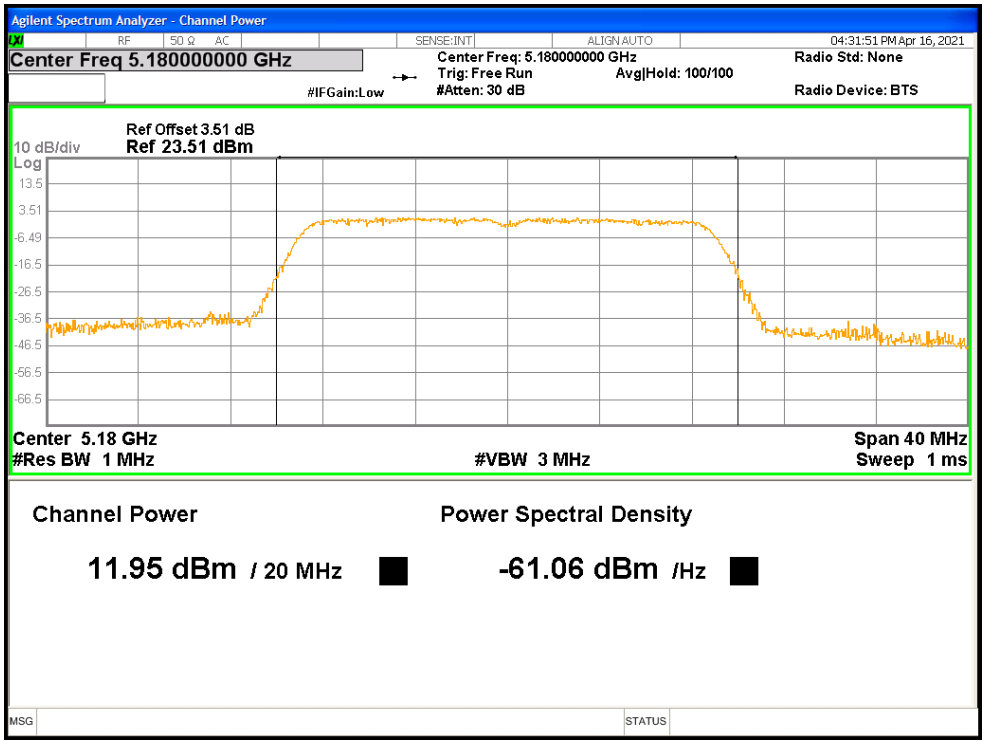
Power NVNT ac80 5775MHz Ant1



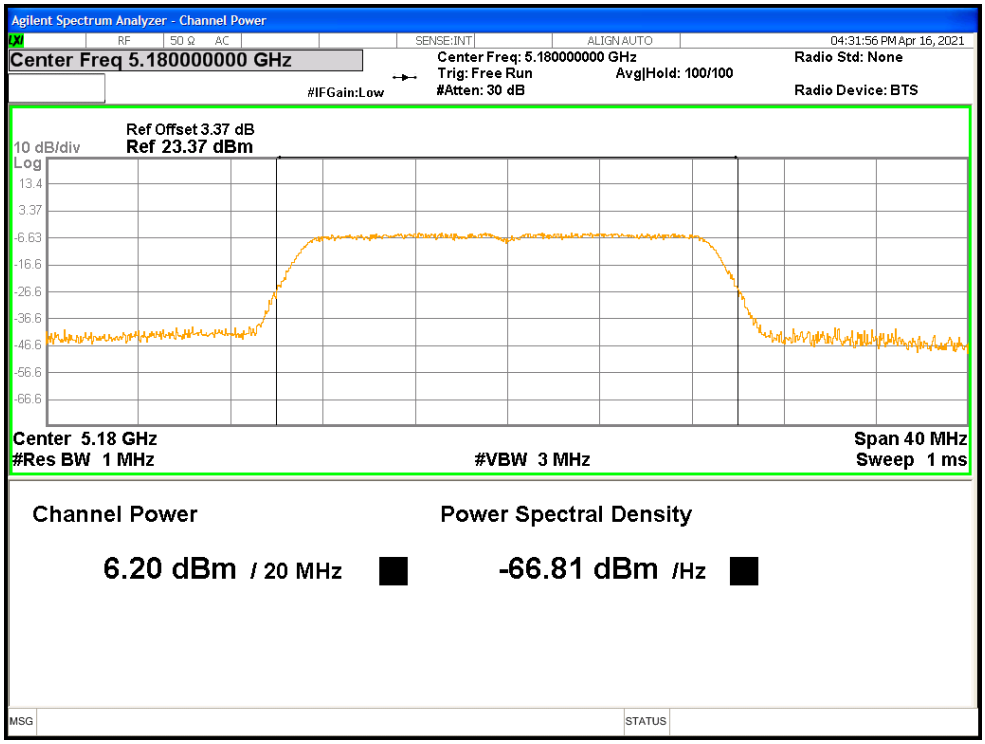
Power NVNT ac80 5775MHz Ant2



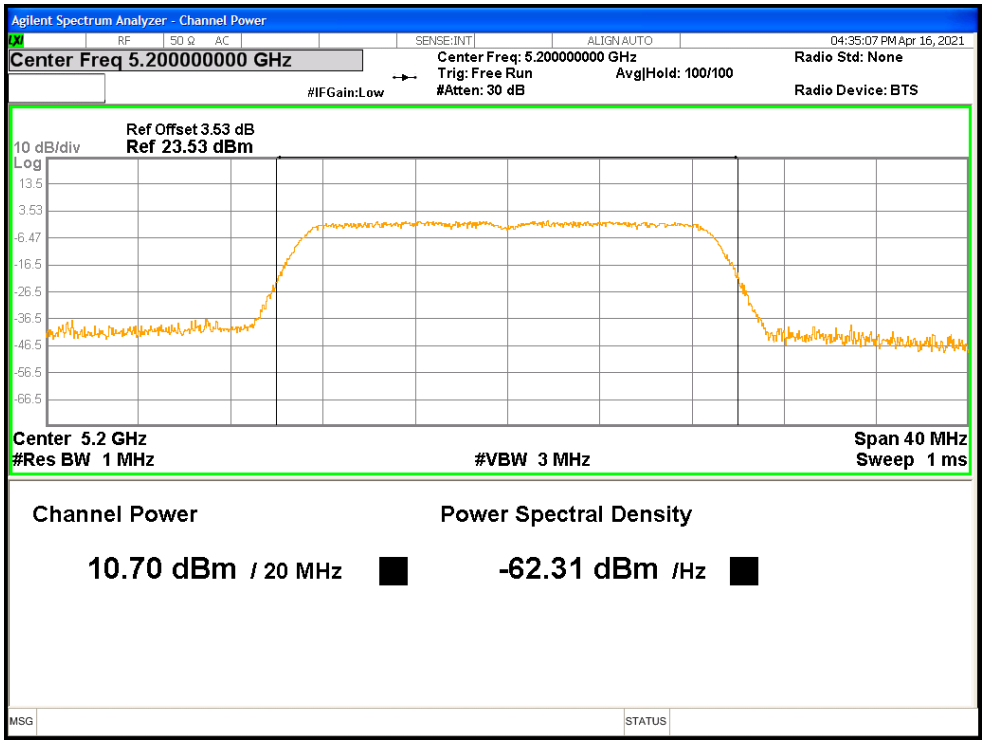
Power NVNT n20 5180MHz Ant1



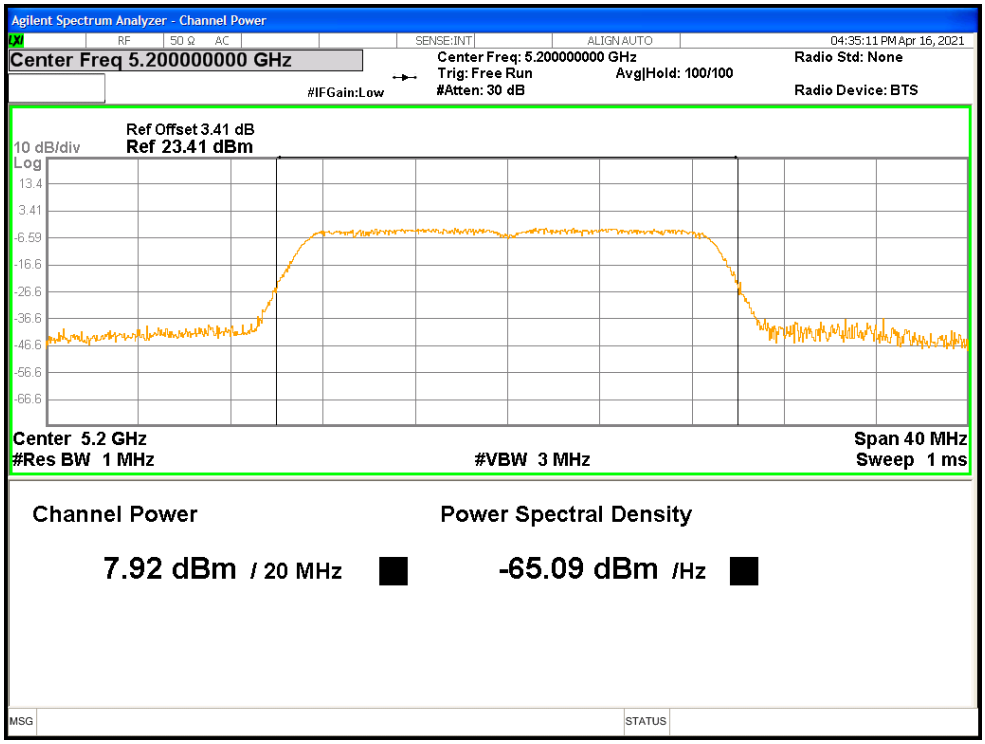
Power NVNT n20 5180MHz Ant2



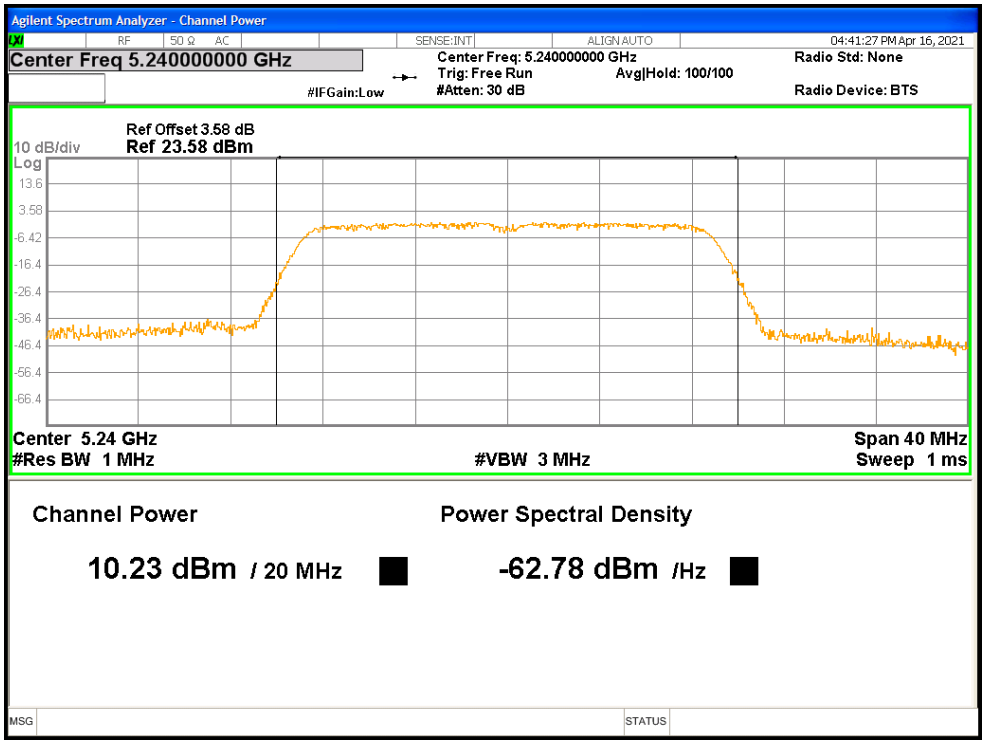
Power NVNT n20 5200MHz Ant1



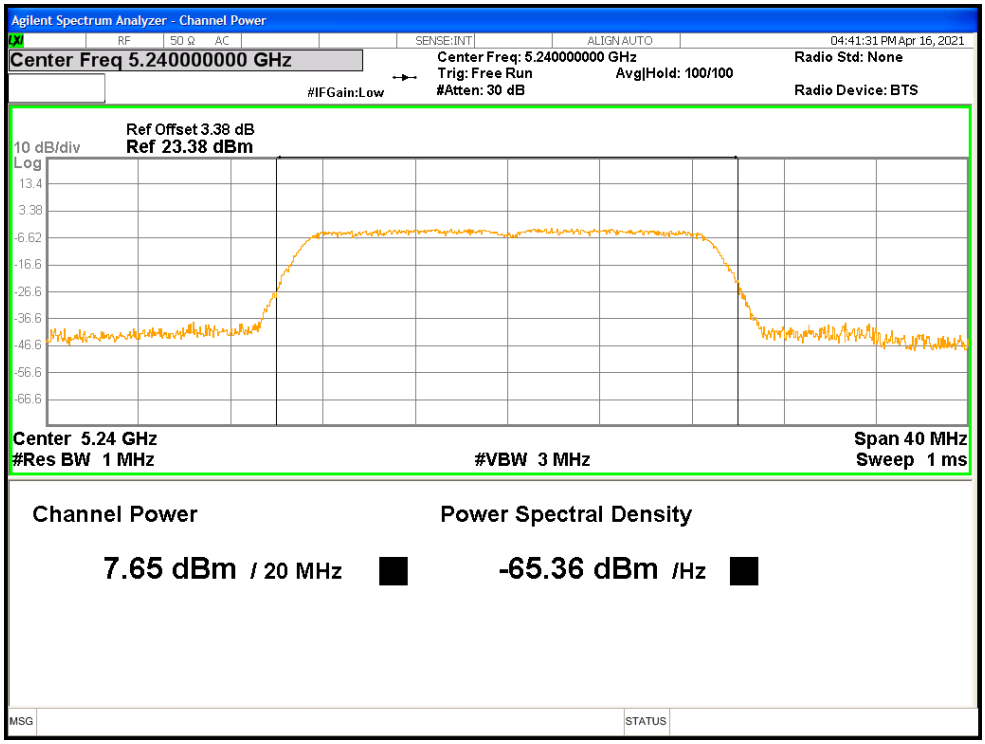
Power NVNT n20 5200MHz Ant2



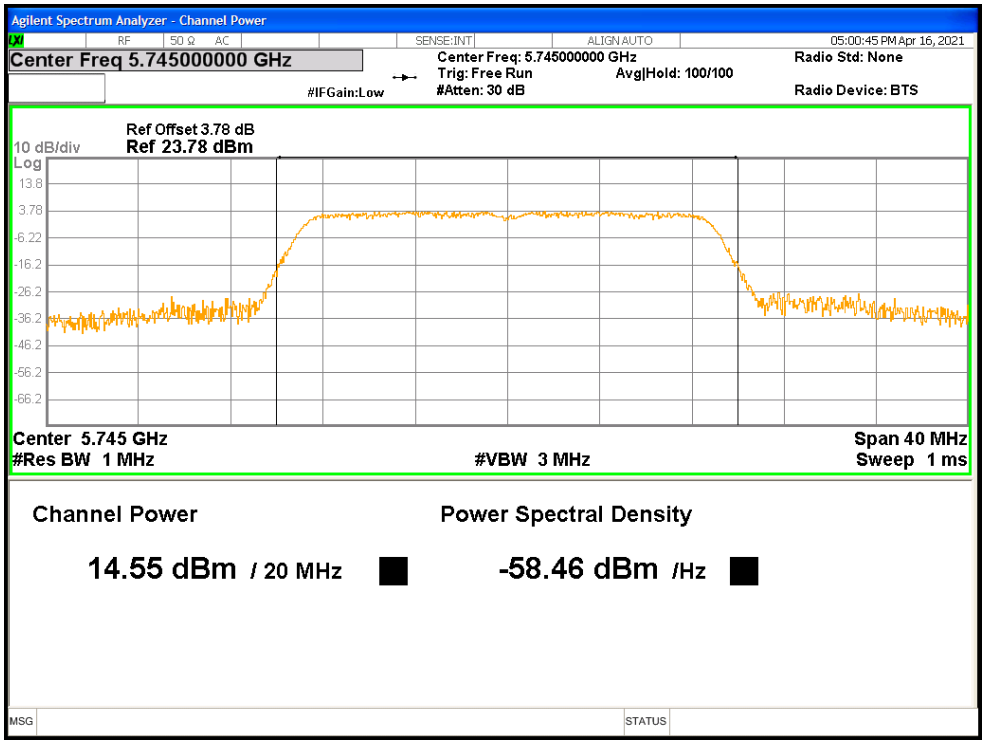
Power NVNT n20 5240MHz Ant1



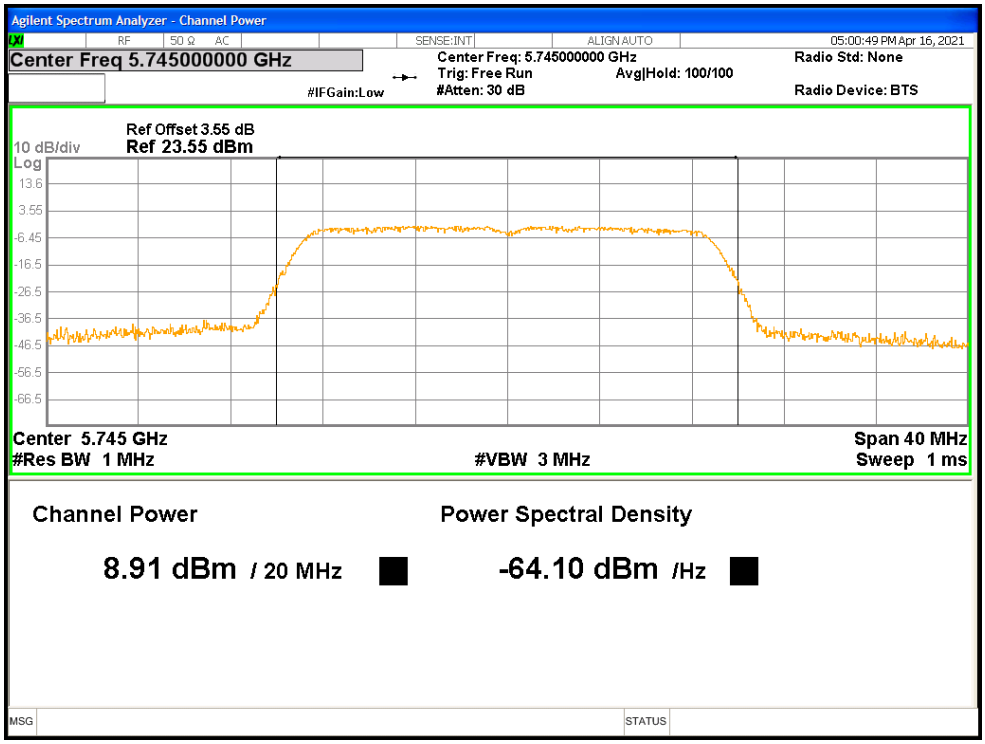
Power NVNT n20 5240MHz Ant2



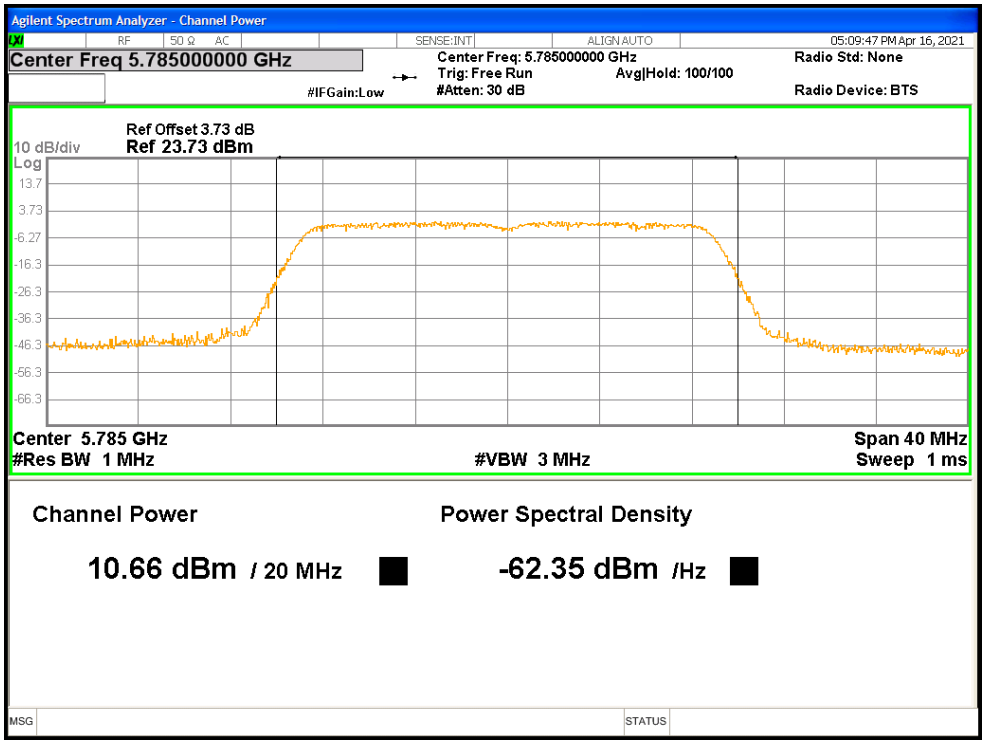
Power NVNT n20 5745MHz Ant1



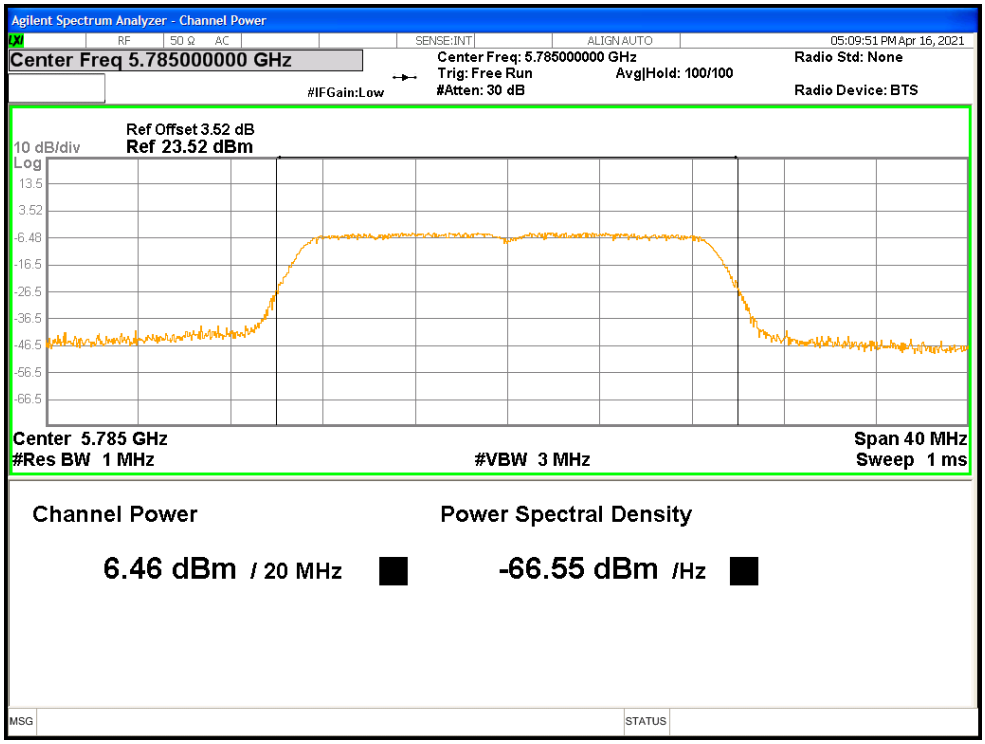
Power NVNT n20 5745MHz Ant2



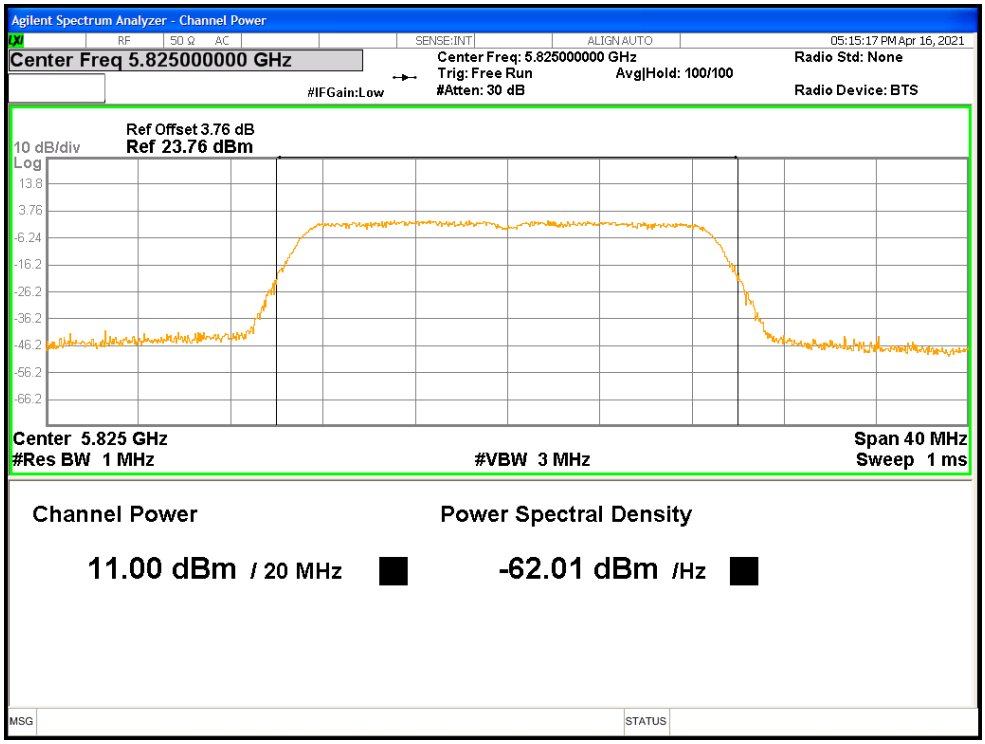
Power NVNT n20 5785MHz Ant1



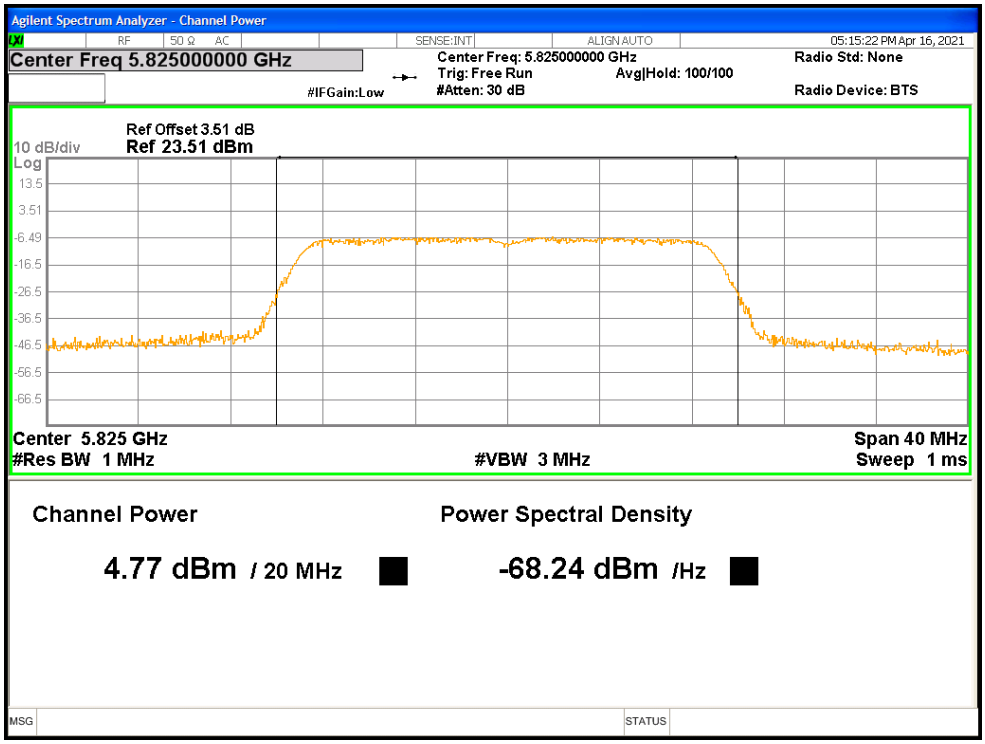
Power NVNT n20 5785MHz Ant2



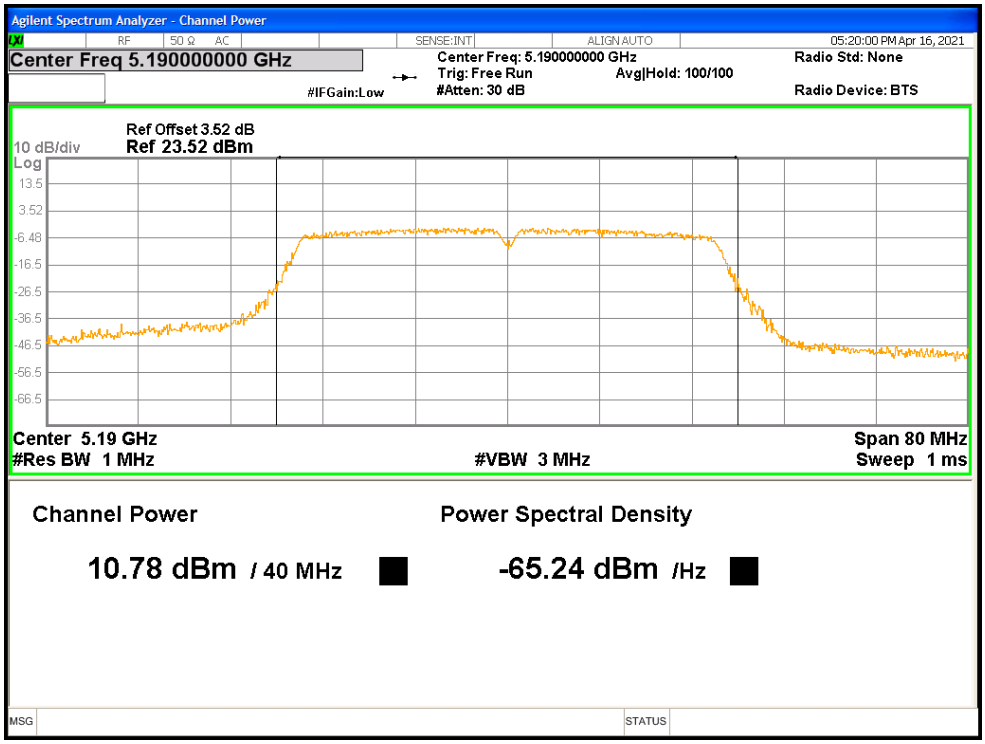
Power NVNT n20 5825MHz Ant1



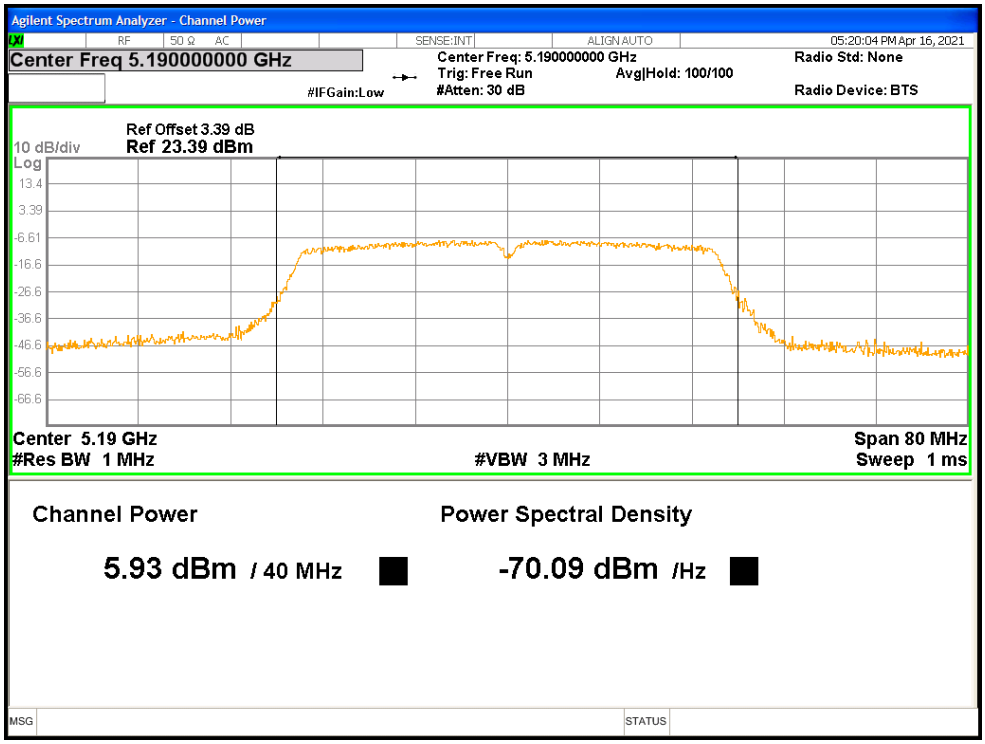
Power NVNT n20 5825MHz Ant2



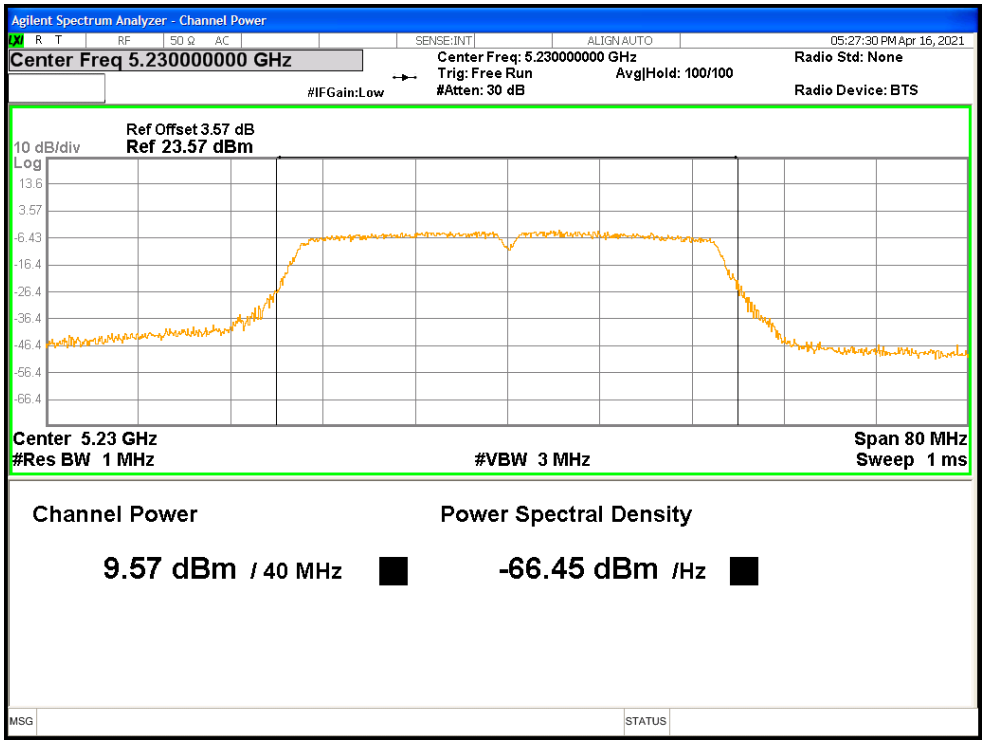
Power NVNT n40 5190MHz Ant1



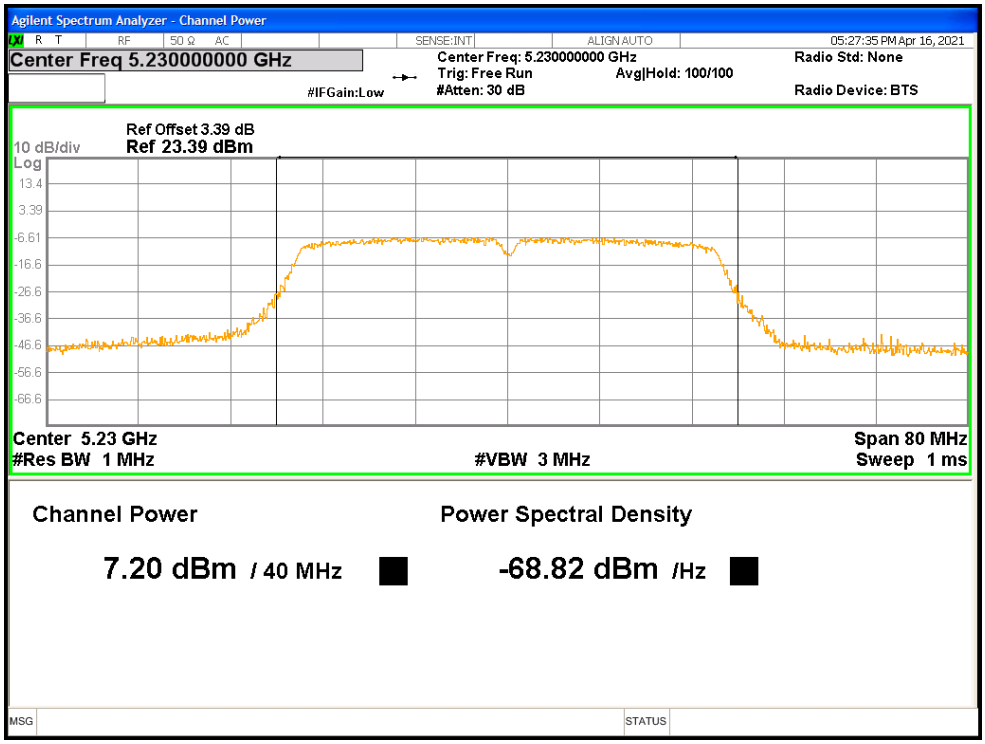
Power NVNT n40 5190MHz Ant2



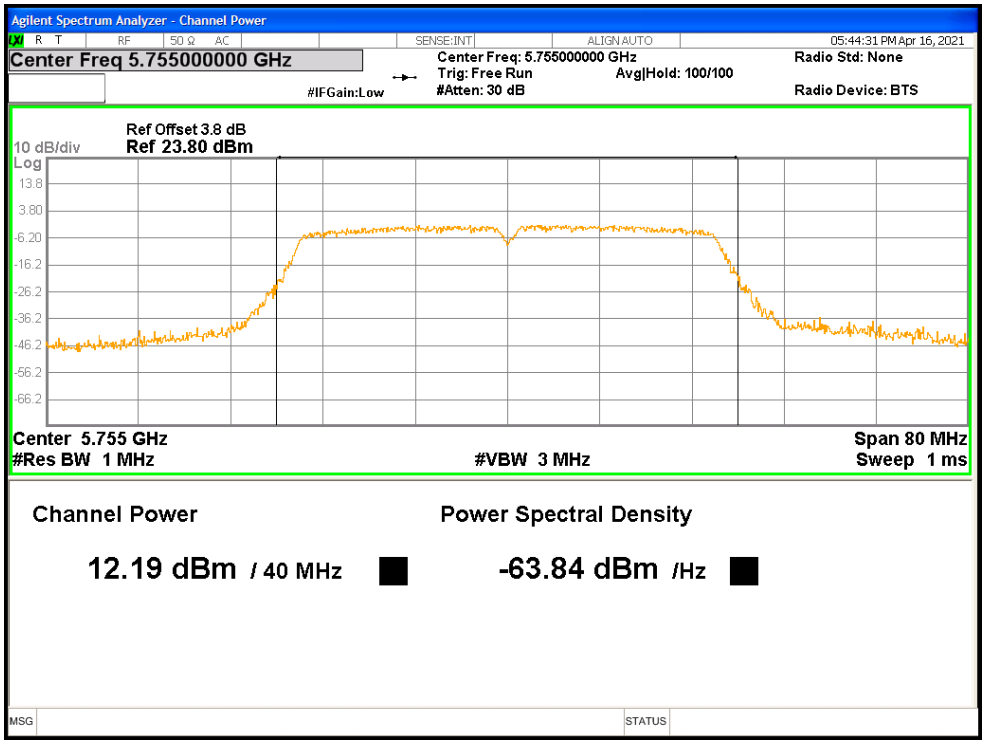
Power NVNT n40 5230MHz Ant1



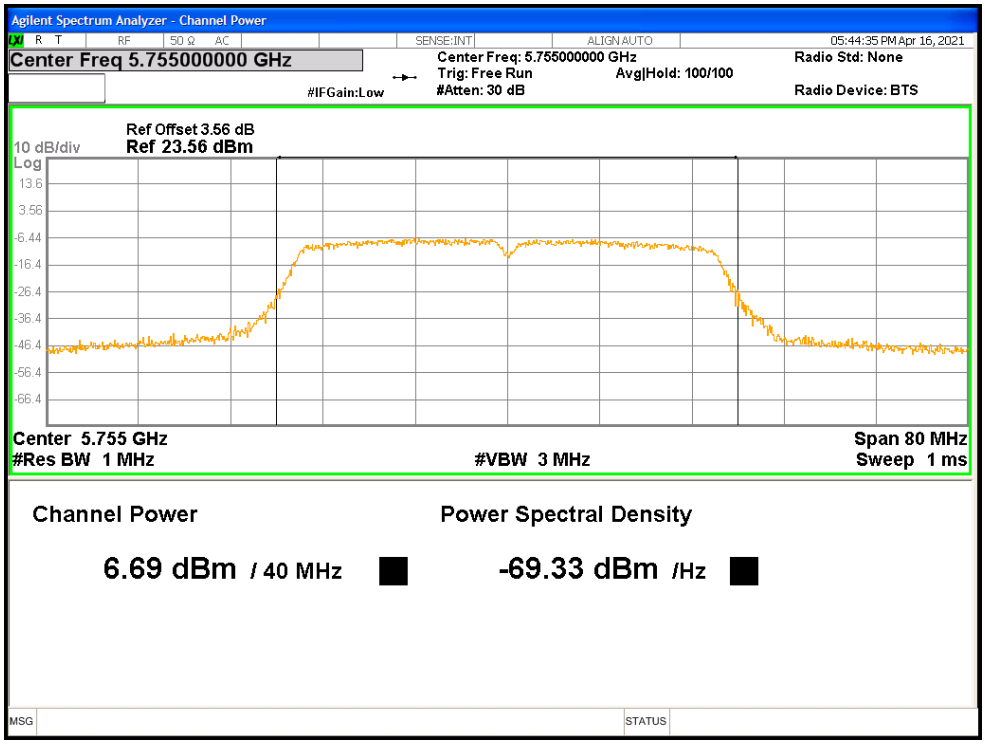
Power NVNT n40 5230MHz Ant2



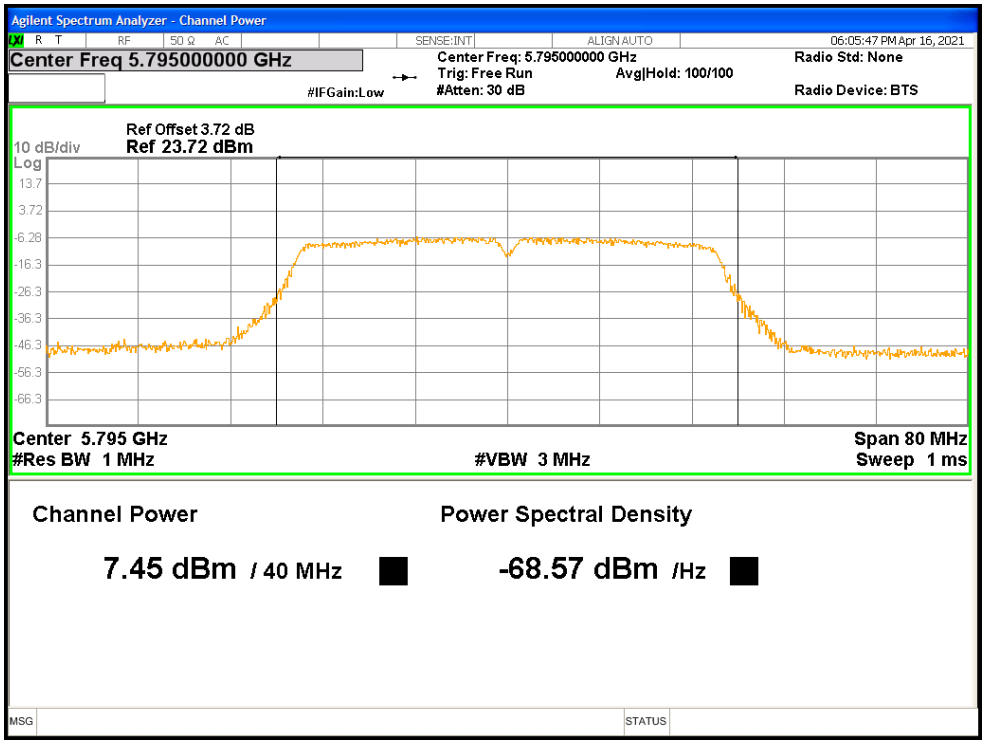
Power NVNT n40 5755MHz Ant1



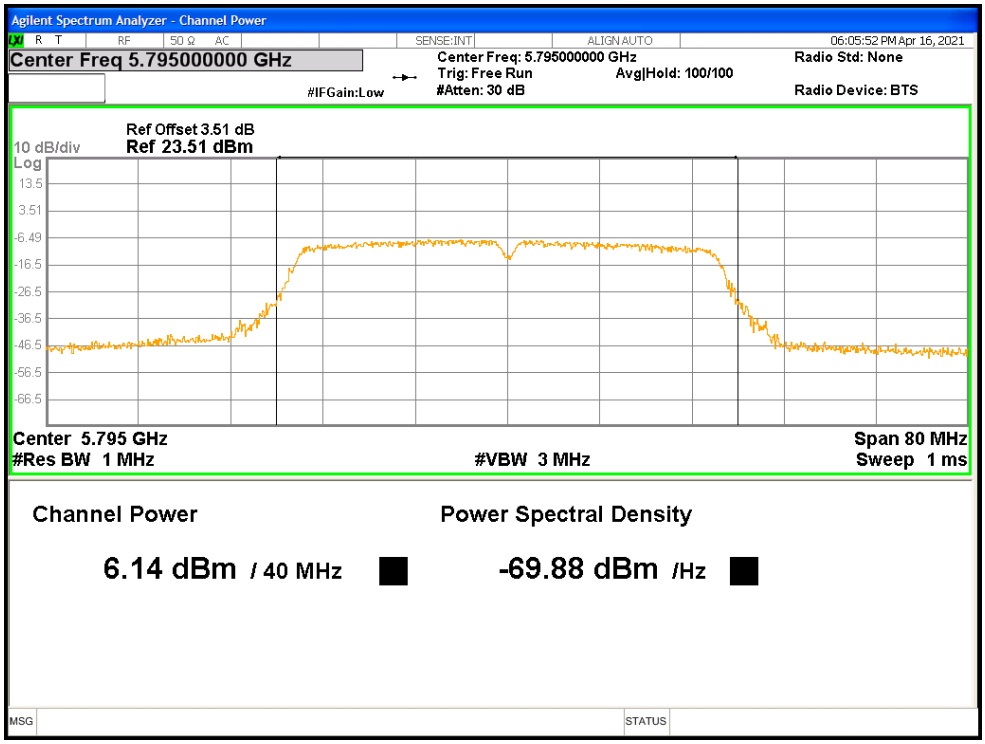
Power NVNT n40 5755MHz Ant2



Power NVNT n40 5795MHz Ant1



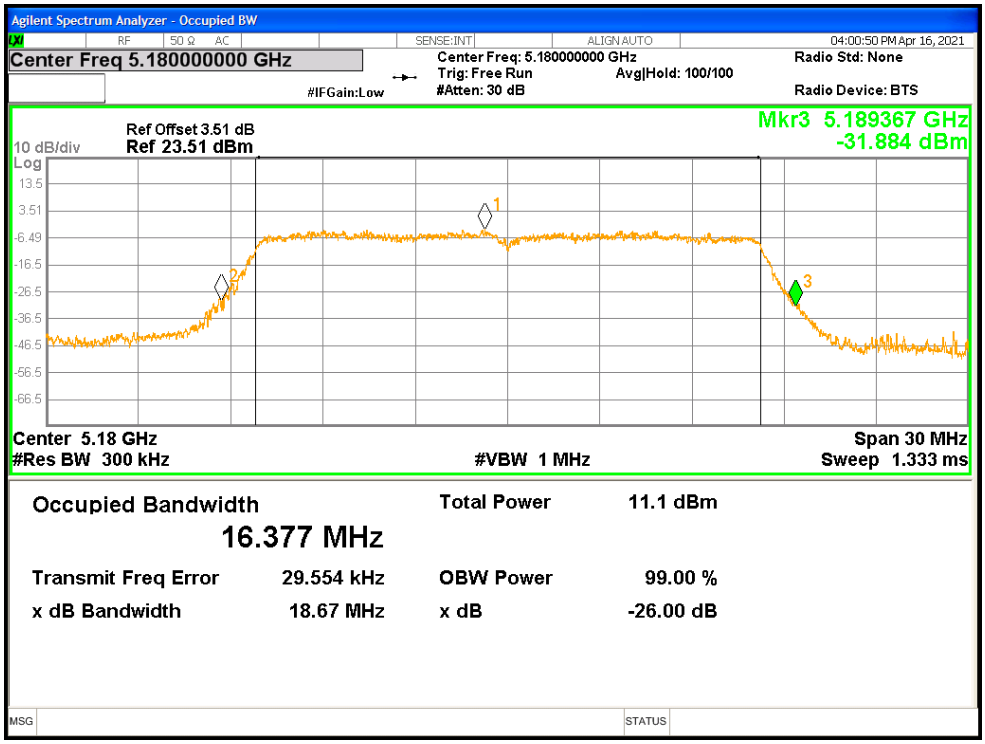
Power NVNT n40 5795MHz Ant2


Agilent Spectrum Analyzer - Channel Power
SENSE:INT
ALIGN AUTO
06:05:52 PM Apr 16, 2021
Center Freq 5.795000000 GHz
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Ref Offset 3.51 dB
10 dB/div
Ref 23.51 dBm
Log
13.5
3.51
-6.49
-16.5
-26.5
-36.5
-46.5
-56.5
-66.5
Center 5.795 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 80 MHz
Sweep 1 ms
Channel Power
6.14 dBm / 40 MHz
Power Spectral Density
-69.88 dBm /Hz
MSG
STATUS

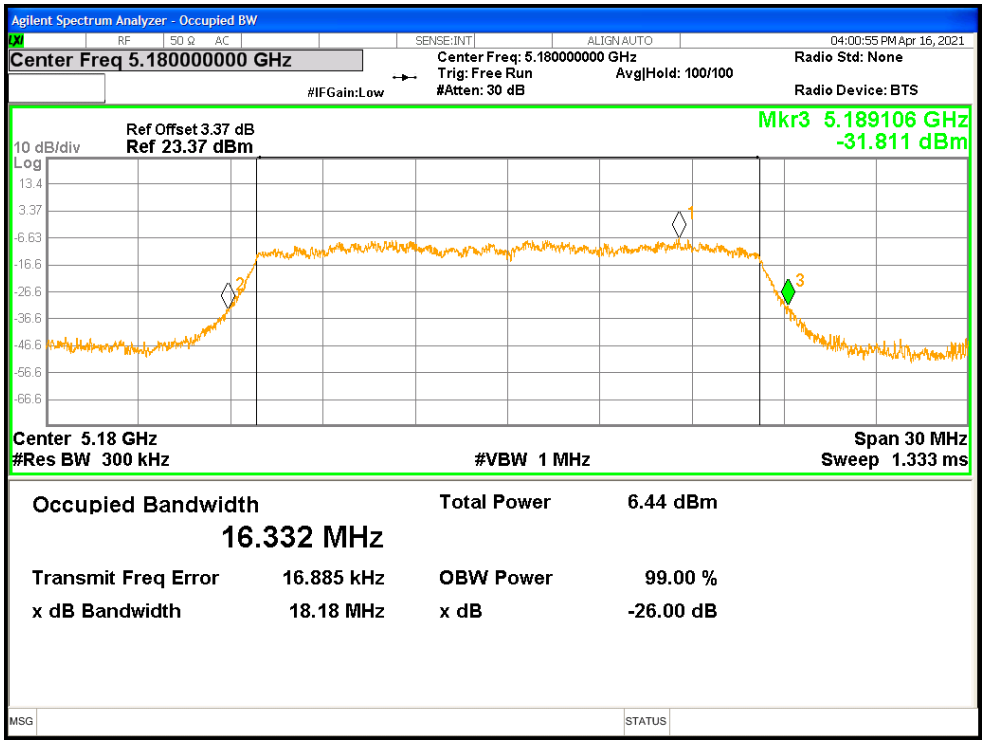
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	18.674	0.5	Pass
NVNT	a	5180	Ant2	18.178	0.5	Pass
NVNT	a	5200	Ant1	18.636	0.5	Pass
NVNT	a	5200	Ant2	18.55	0.5	Pass
NVNT	a	5240	Ant1	18.659	0.5	Pass
NVNT	a	5240	Ant2	18.417	0.5	Pass
NVNT	ac20	5180	Ant1	19.48	0.5	Pass
NVNT	ac20	5180	Ant2	19.537	0.5	Pass
NVNT	ac20	5200	Ant1	19.518	0.5	Pass
NVNT	ac20	5200	Ant2	19.589	0.5	Pass
NVNT	ac20	5240	Ant1	19.526	0.5	Pass
NVNT	ac20	5240	Ant2	19.497	0.5	Pass
NVNT	ac40	5190	Ant1	40.069	0.5	Pass
NVNT	ac40	5190	Ant2	39.795	0.5	Pass
NVNT	ac40	5230	Ant1	40.311	0.5	Pass
NVNT	ac40	5230	Ant2	39.905	0.5	Pass
NVNT	ac80	5210	Ant1	78.896	0.5	Pass
NVNT	ac80	5210	Ant2	79.001	0.5	Pass
NVNT	n20	5180	Ant1	19.53	0.5	Pass
NVNT	n20	5180	Ant2	19.612	0.5	Pass
NVNT	n20	5200	Ant1	19.526	0.5	Pass
NVNT	n20	5200	Ant2	19.537	0.5	Pass
NVNT	n20	5240	Ant1	19.551	0.5	Pass
NVNT	n20	5240	Ant2	19.515	0.5	Pass
NVNT	n40	5190	Ant1	40.1	0.5	Pass
NVNT	n40	5190	Ant2	40.126	0.5	Pass
NVNT	n40	5230	Ant1	40.043	0.5	Pass
NVNT	n40	5230	Ant2	40.26	0.5	Pass

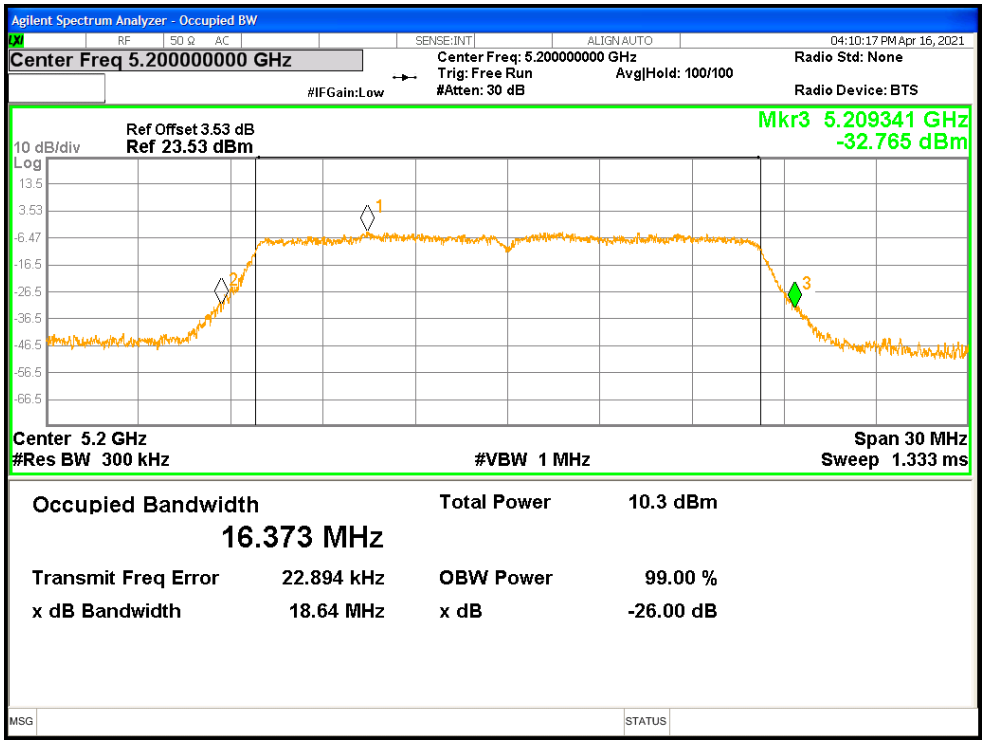
-26dB Bandwidth NVNT a 5180MHz Ant1



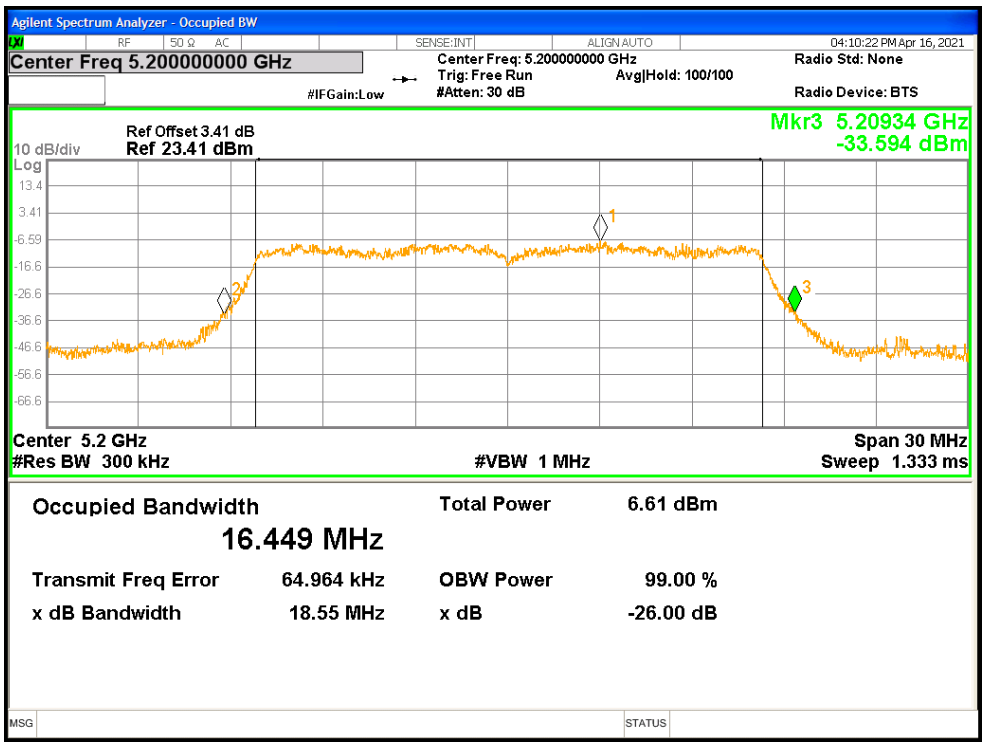
-26dB Bandwidth NVNT a 5180MHz Ant2



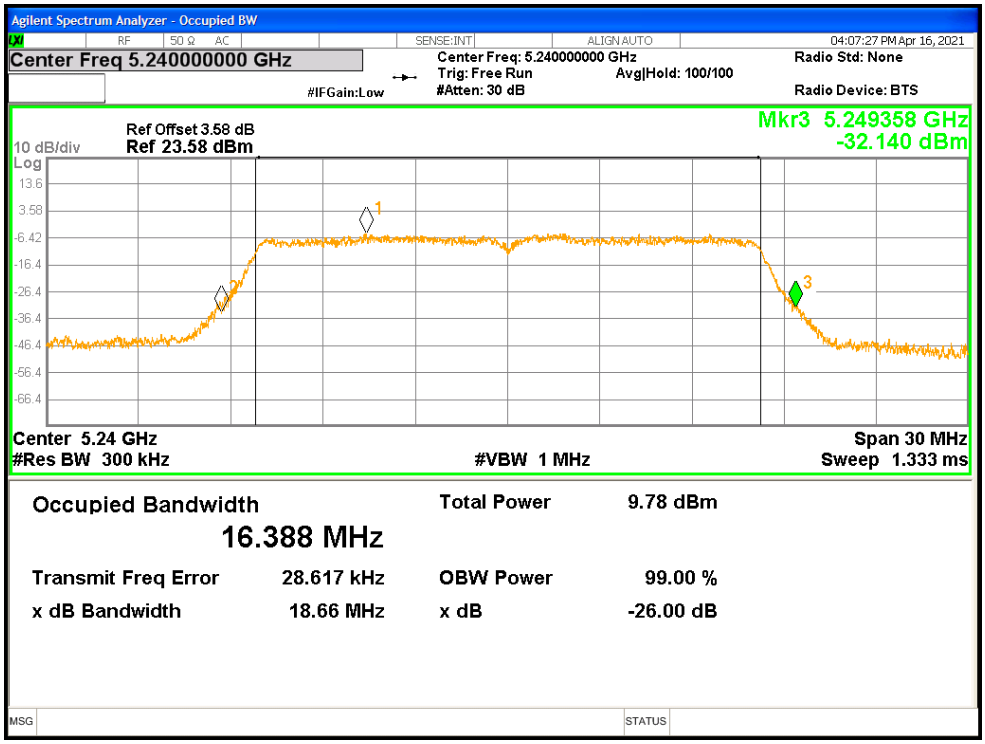
-26dB Bandwidth NVNT a 5200MHz Ant1



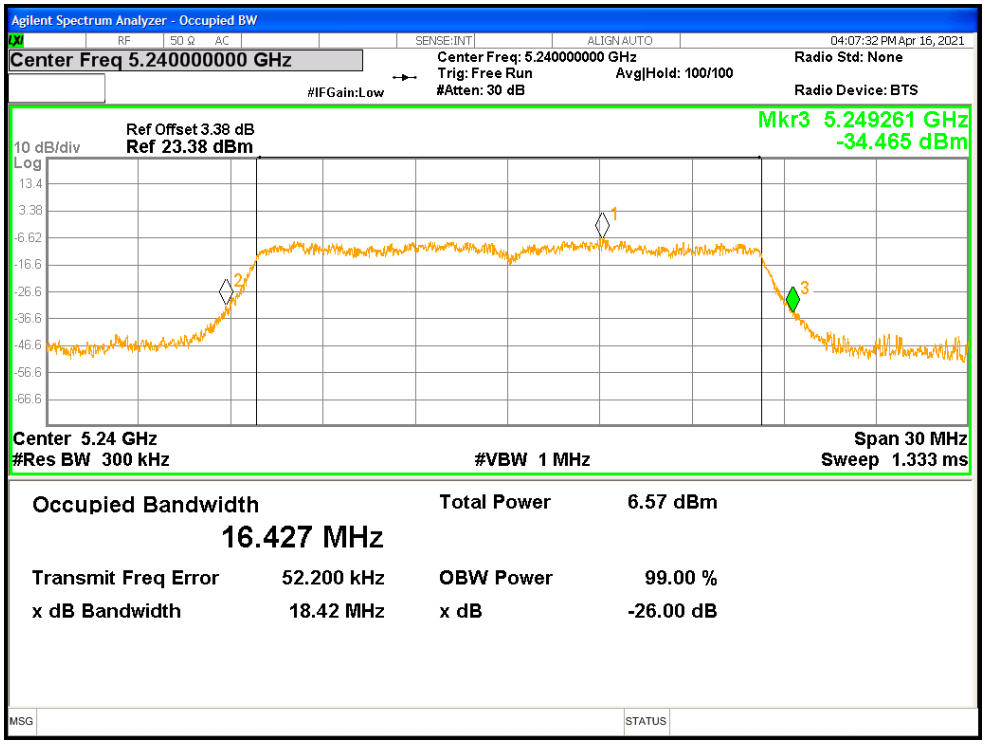
-26dB Bandwidth NVNT a 5200MHz Ant2



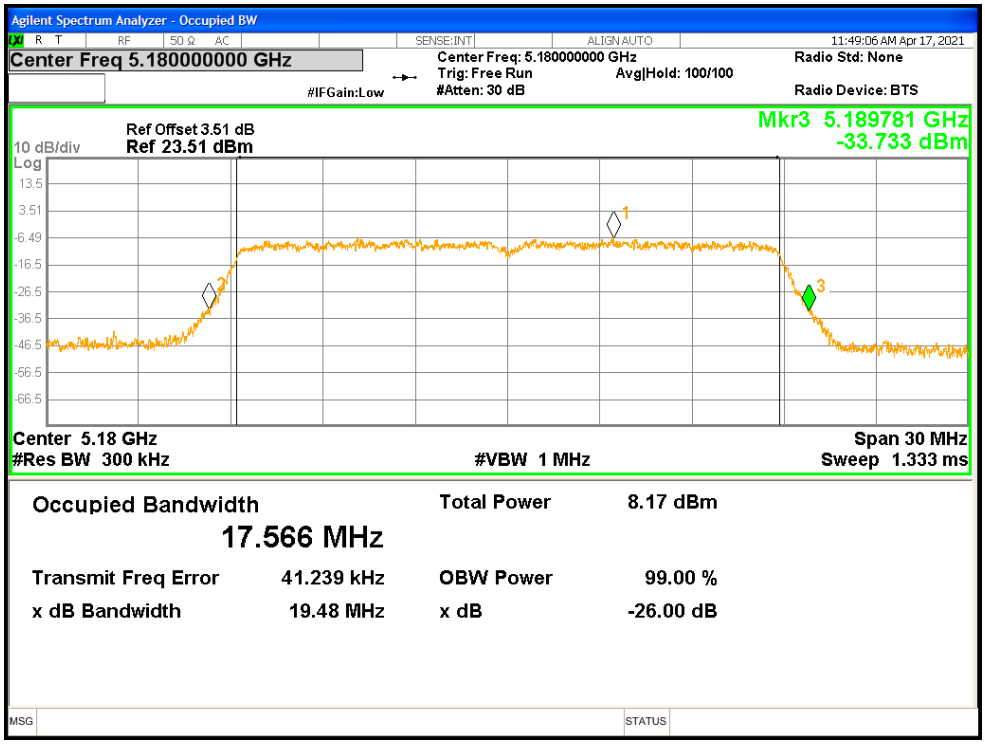
-26dB Bandwidth NVNT a 5240MHz Ant1



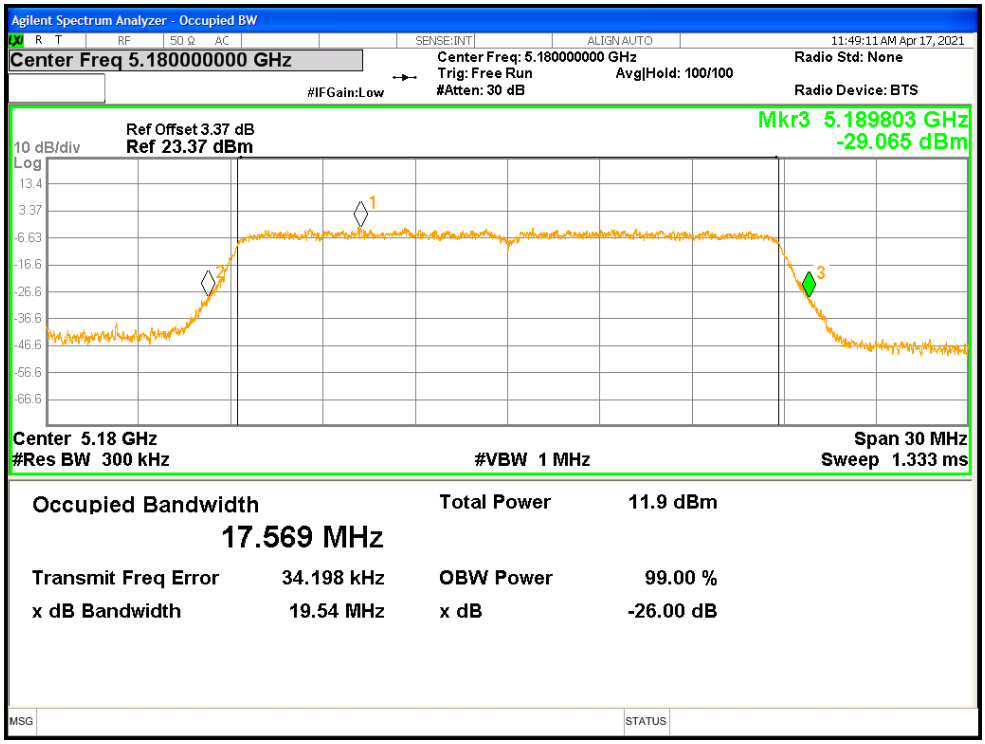
-26dB Bandwidth NVNT a 5240MHz Ant2



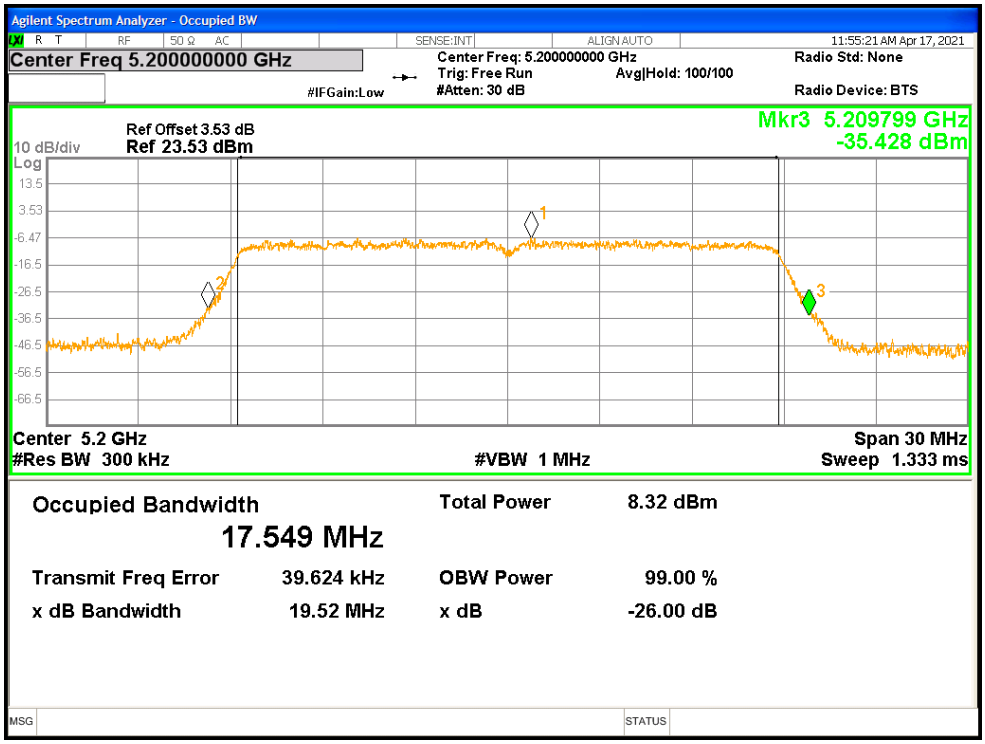
-26dB Bandwidth NVNT ac20 5180MHz Ant1



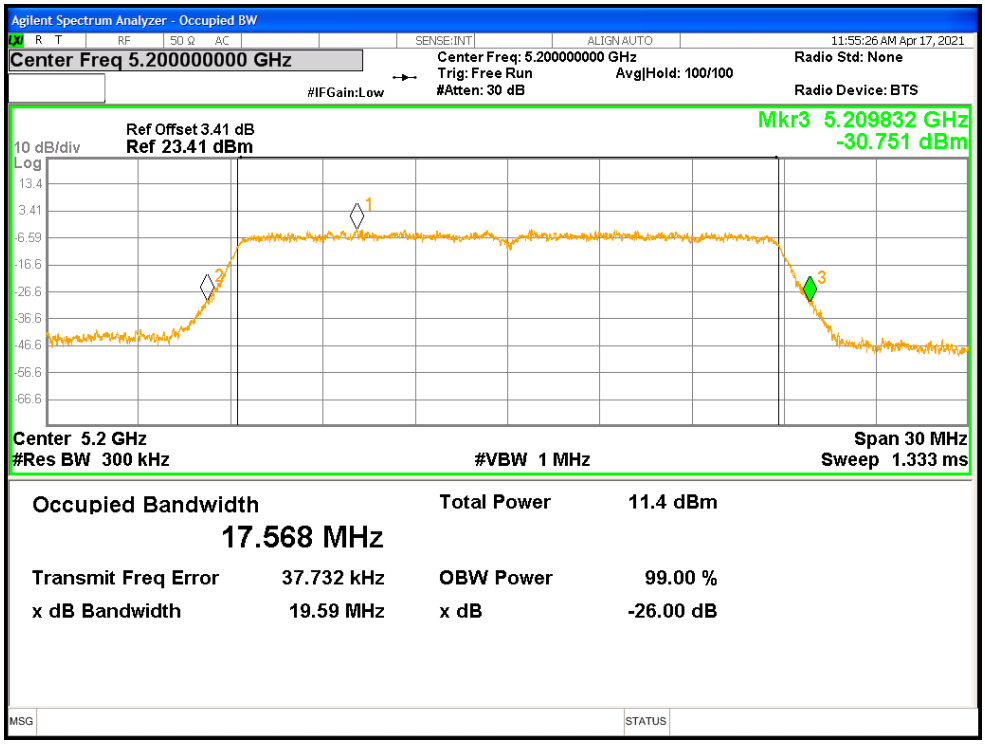
-26dB Bandwidth NVNT ac20 5180MHz Ant2



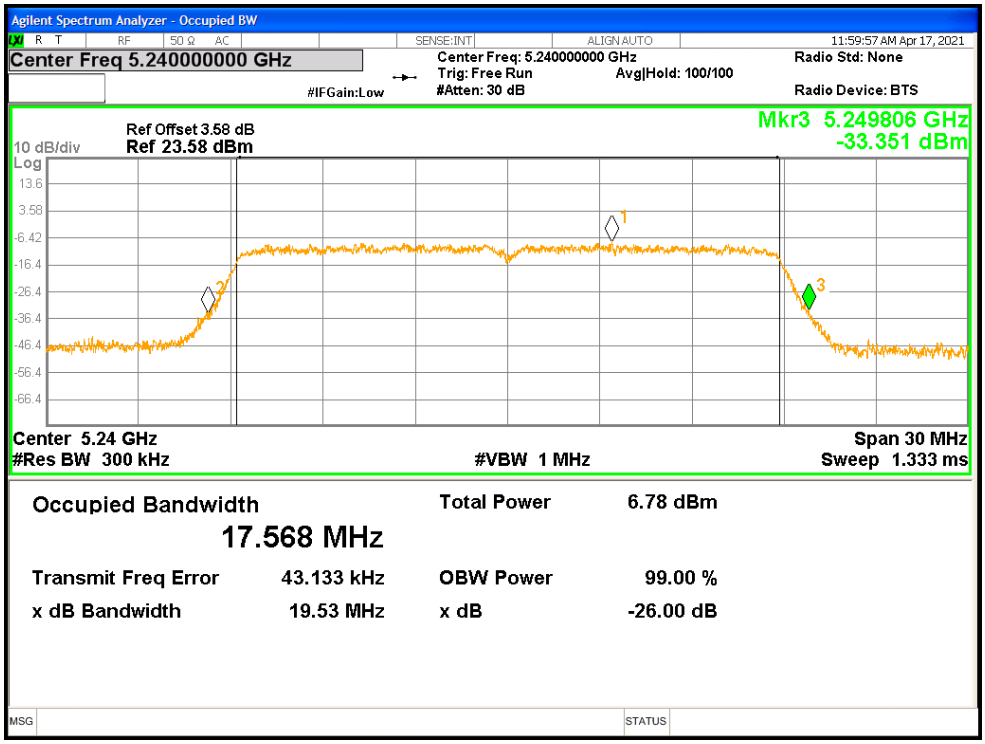
-26dB Bandwidth NVNT ac20 5200MHz Ant1



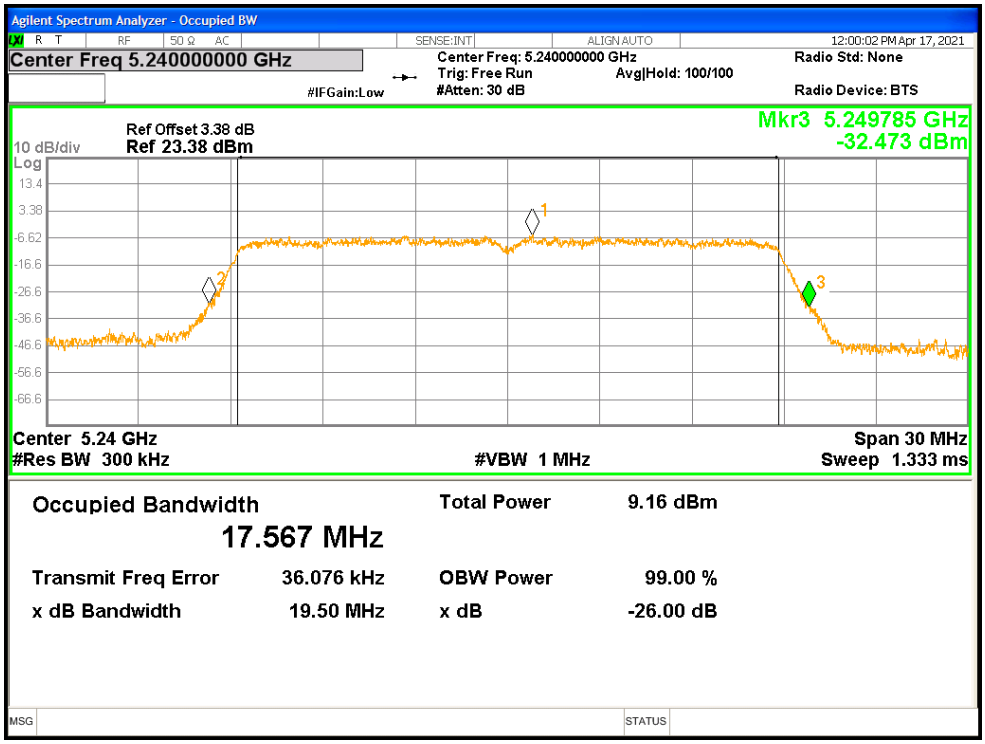
-26dB Bandwidth NVNT ac20 5200MHz Ant2



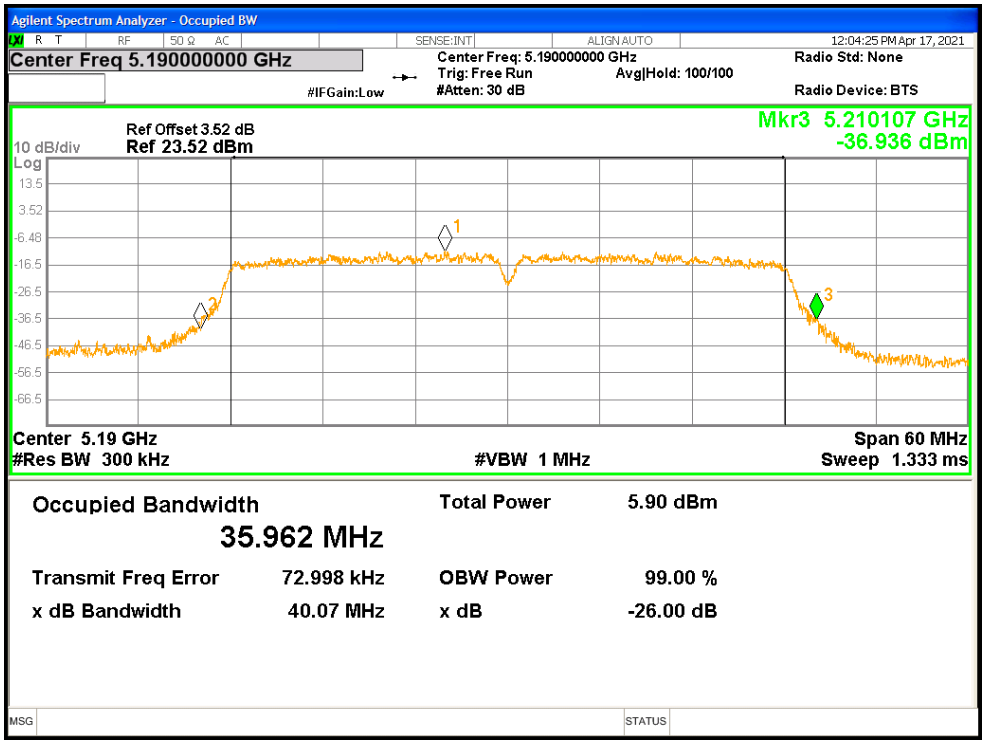
-26dB Bandwidth NVNT ac20 5240MHz Ant1



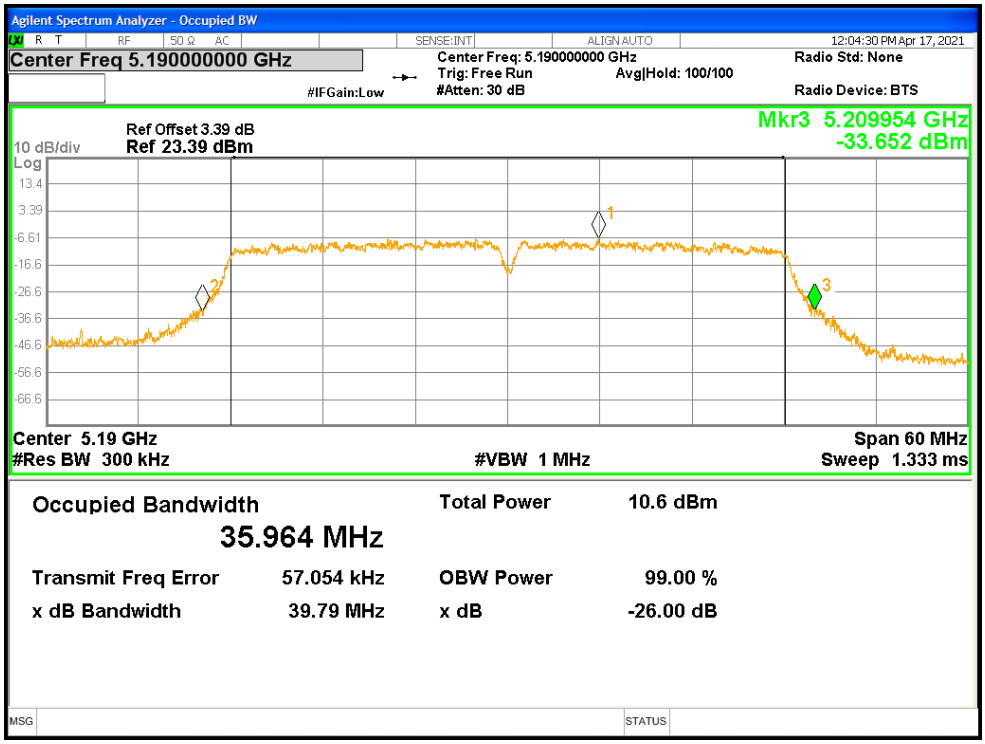
-26dB Bandwidth NVNT ac20 5240MHz Ant2



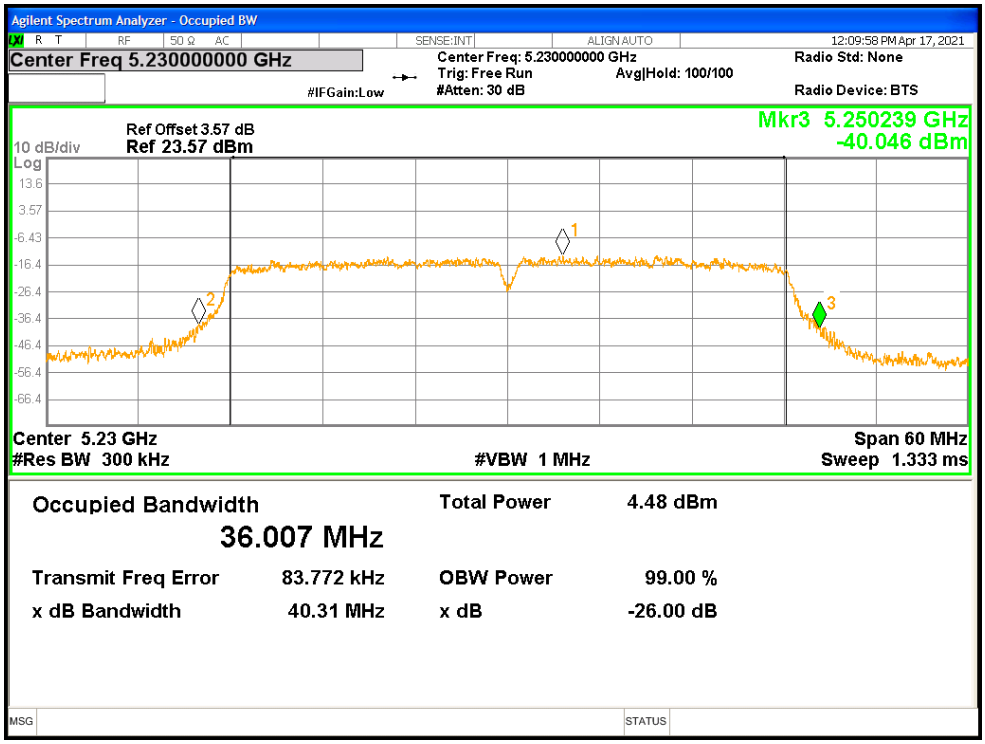
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant2



-26dB Bandwidth NVNT ac40 5230MHz Ant1



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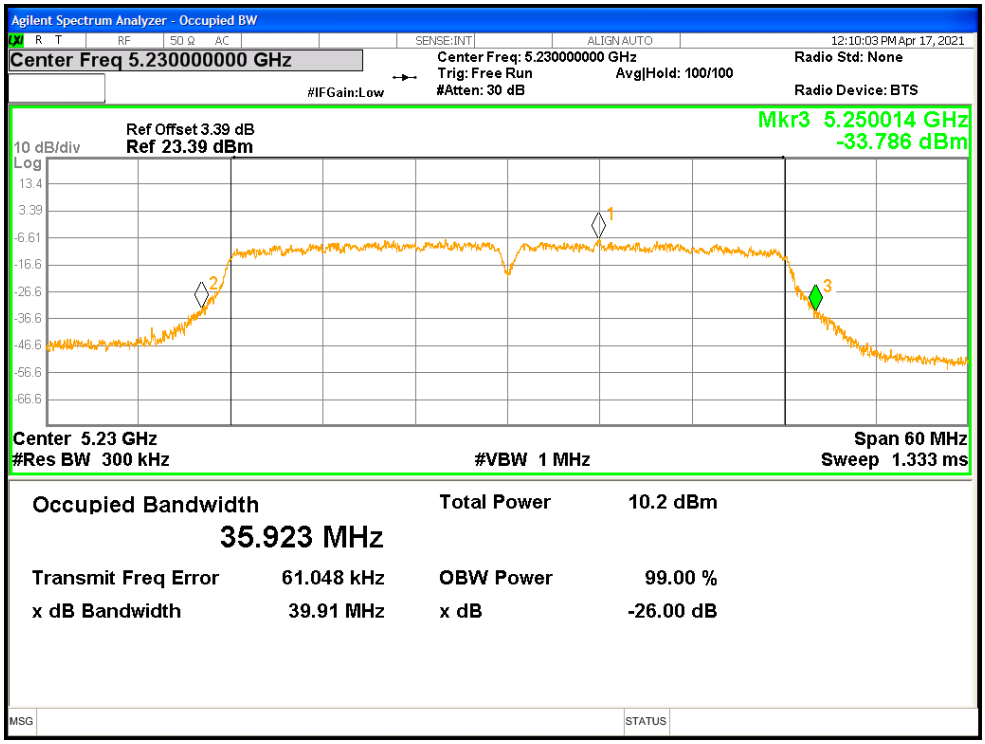
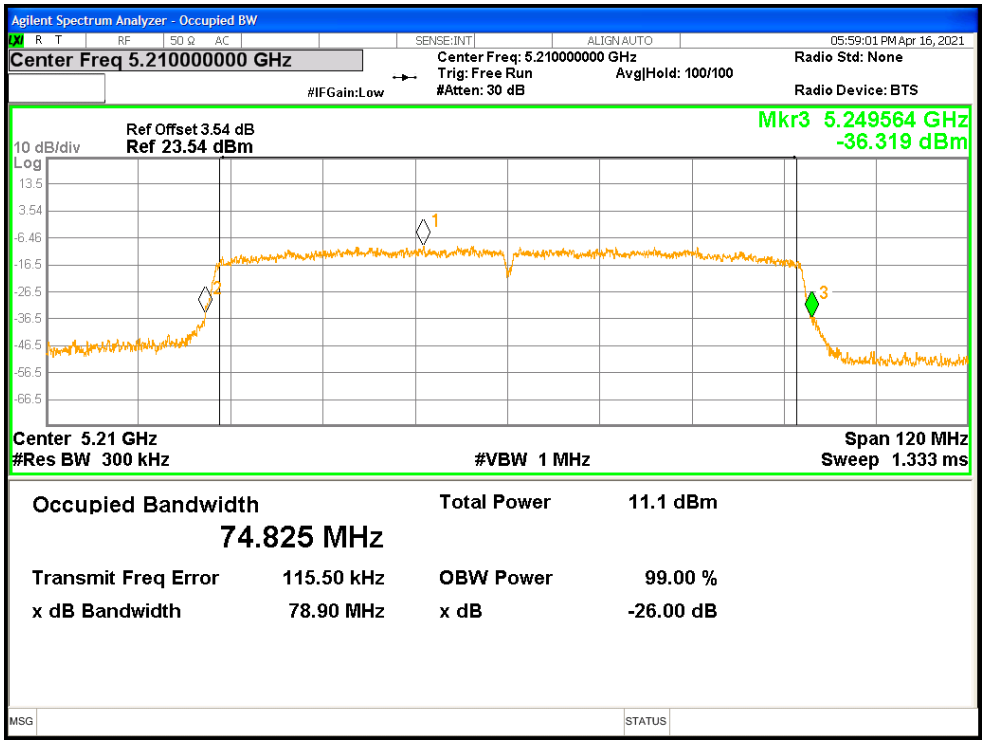
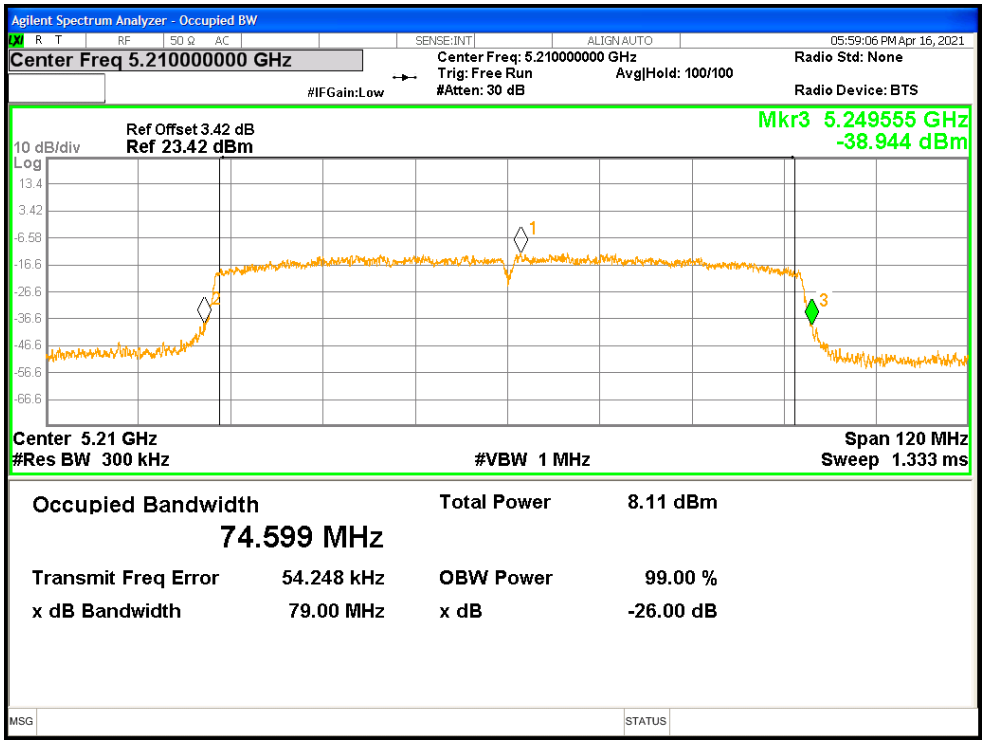


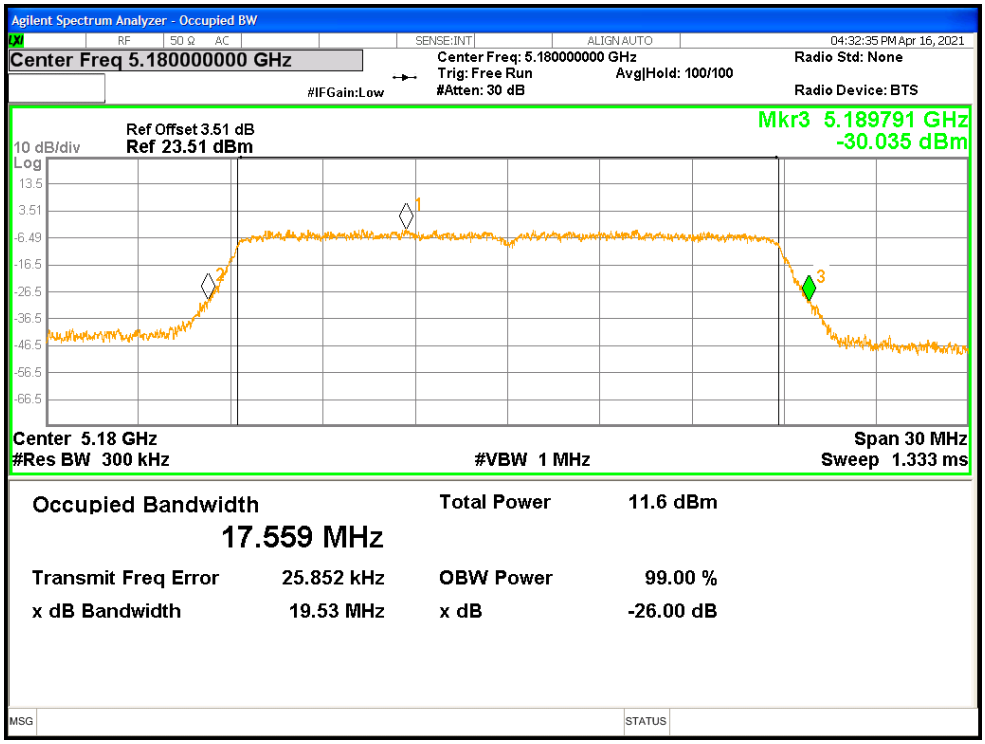
-26dB Bandwidth NVNT ac80 5210MHz Ant1



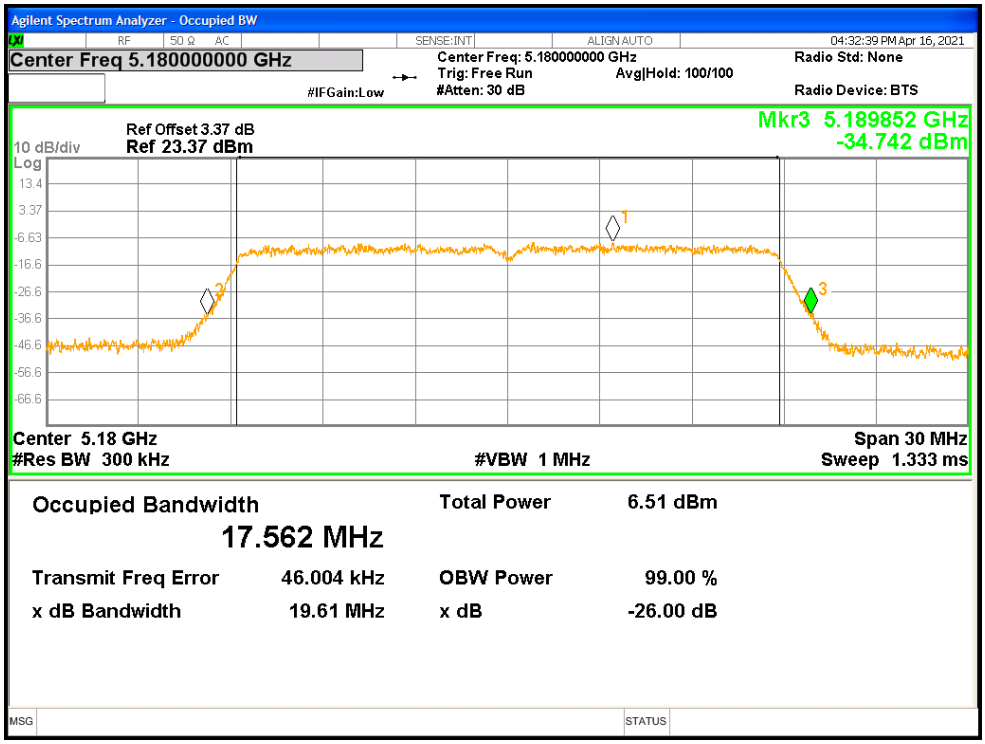
-26dB Bandwidth NVNT ac80 5210MHz Ant2



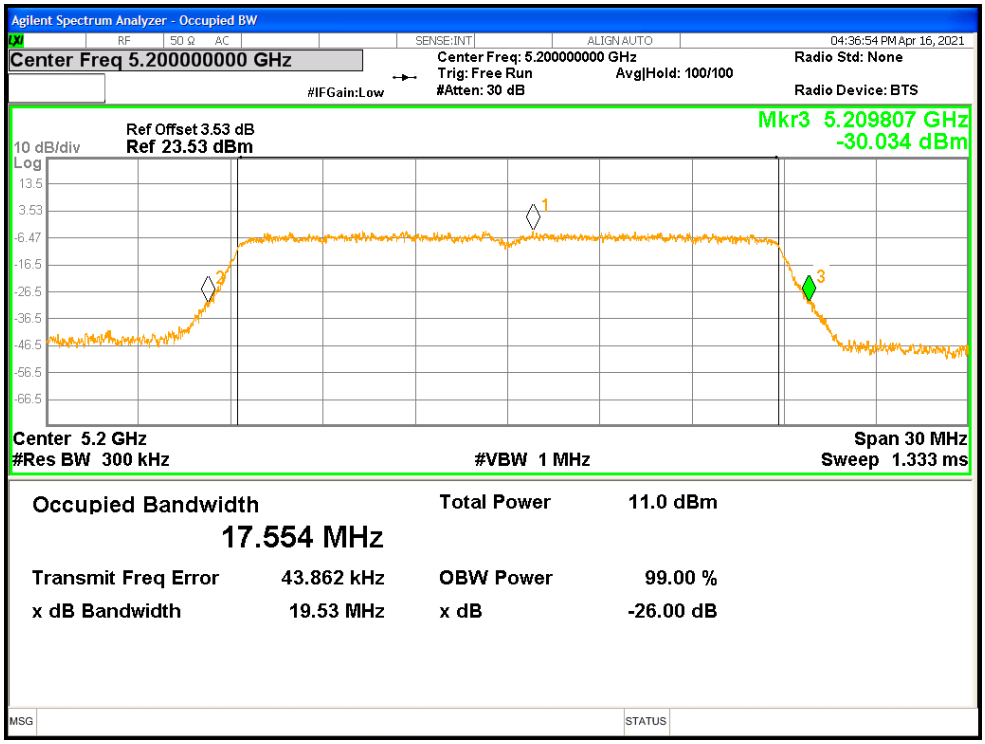
-26dB Bandwidth NVNT n20 5180MHz Ant1



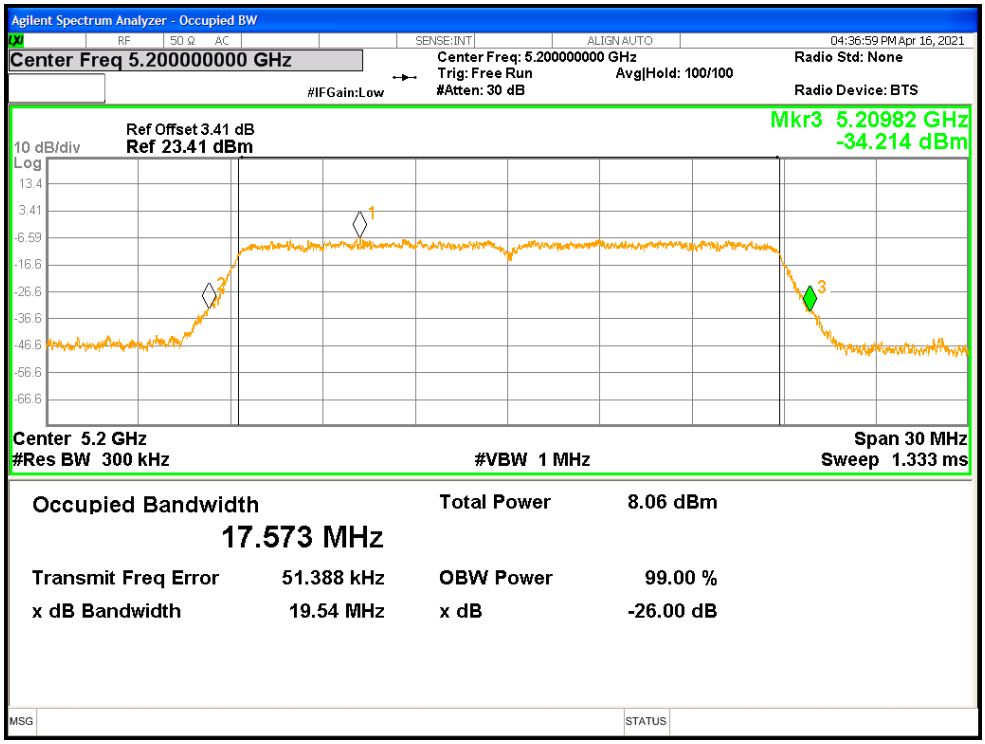
-26dB Bandwidth NVNT n20 5180MHz Ant2



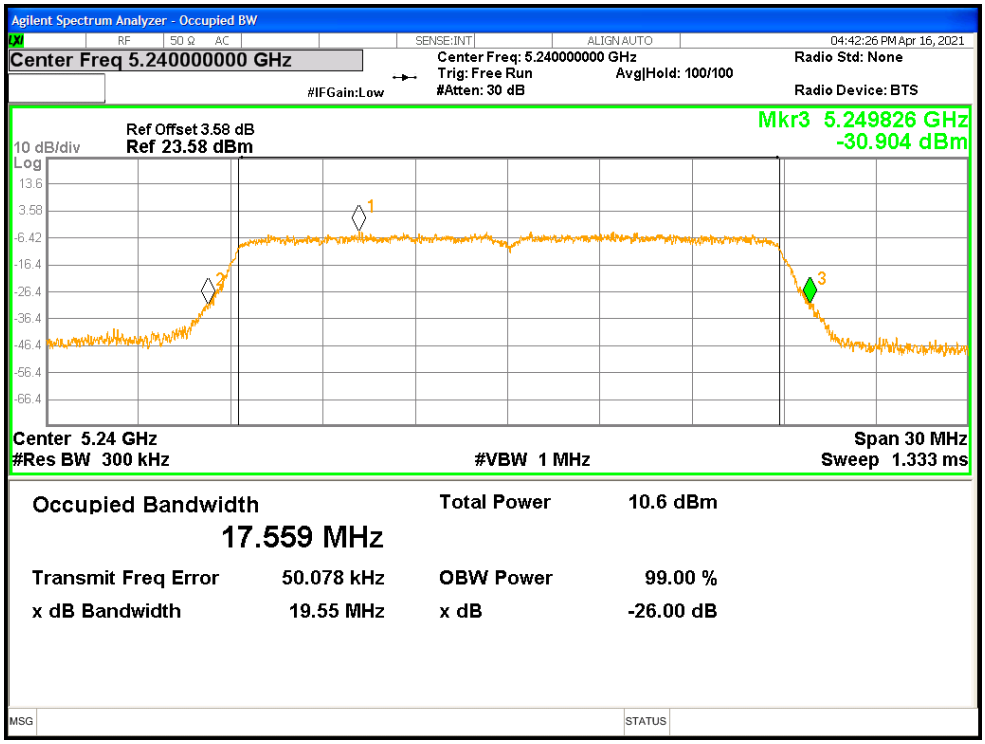
-26dB Bandwidth NVNT n20 5200MHz Ant1



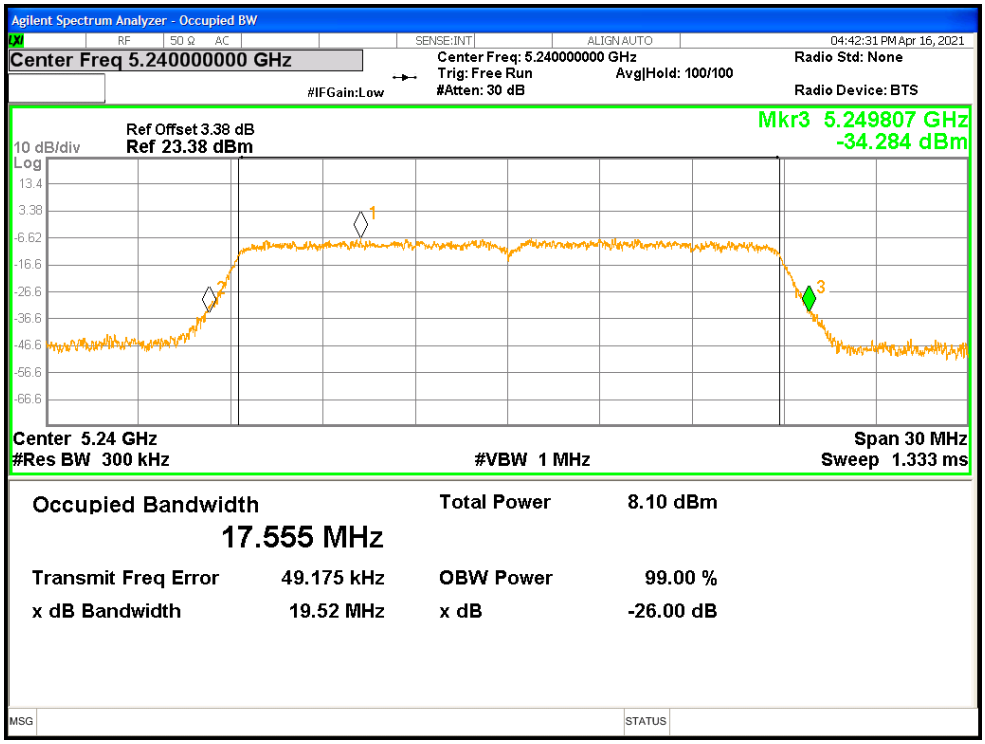
-26dB Bandwidth NVNT n20 5200MHz Ant2



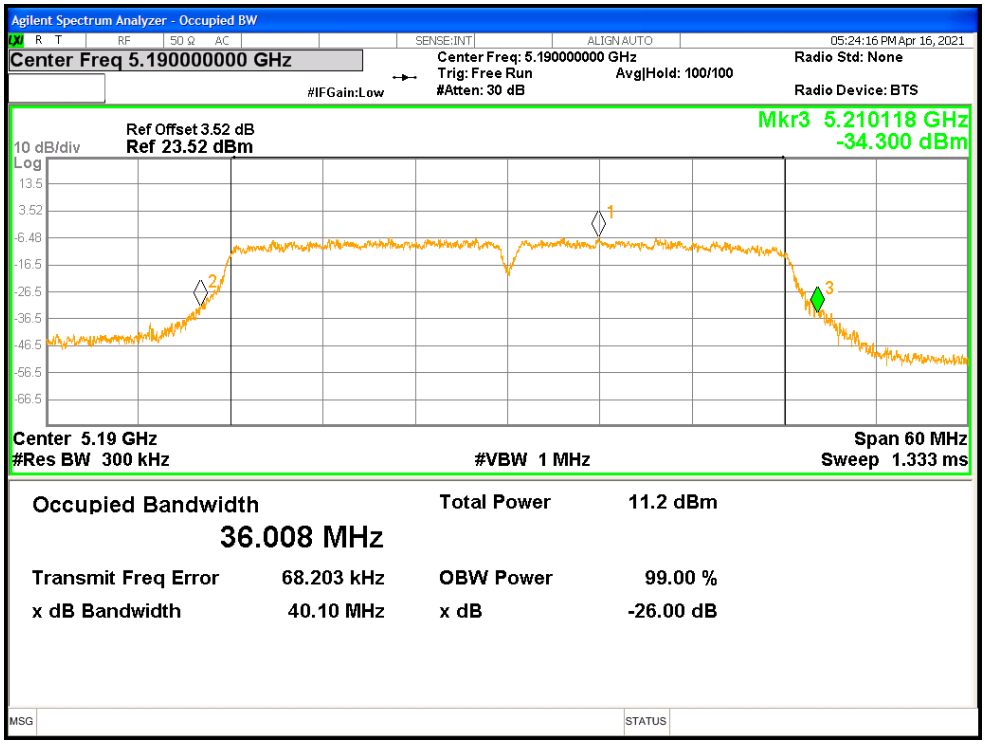
-26dB Bandwidth NVNT n20 5240MHz Ant1



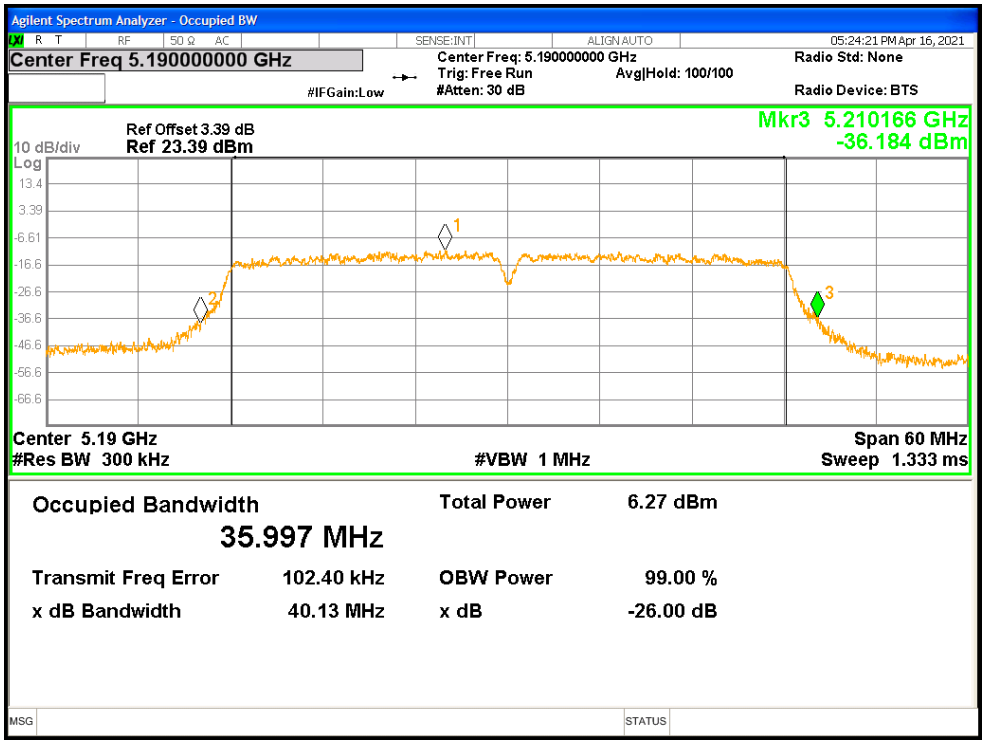
-26dB Bandwidth NVNT n20 5240MHz Ant2



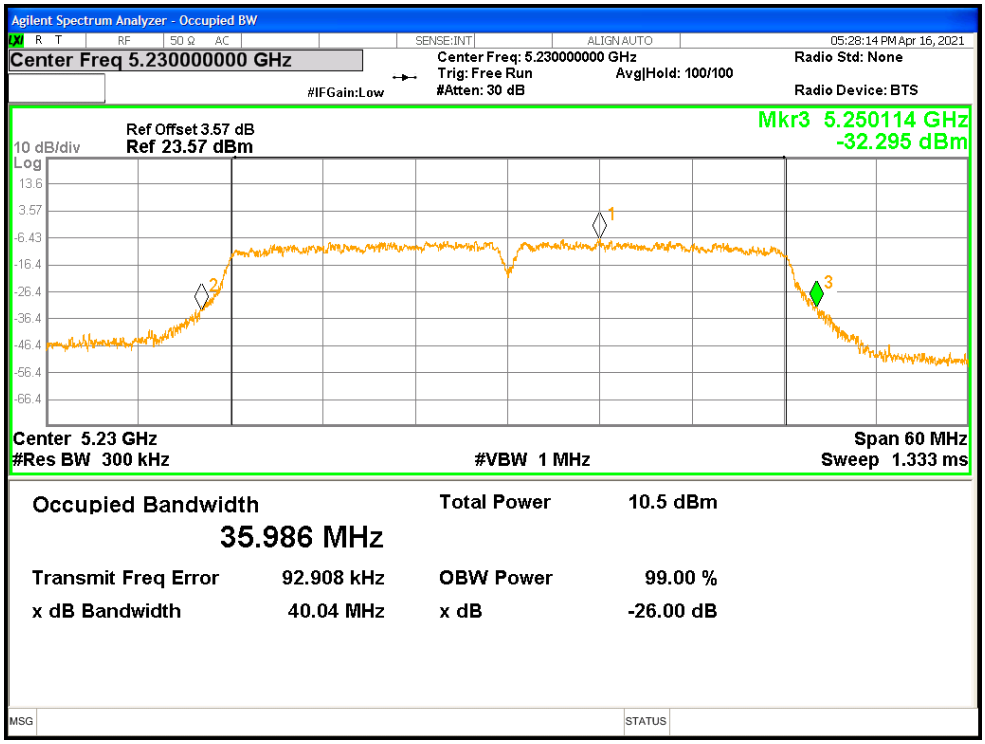
-26dB Bandwidth NVNT n40 5190MHz Ant1



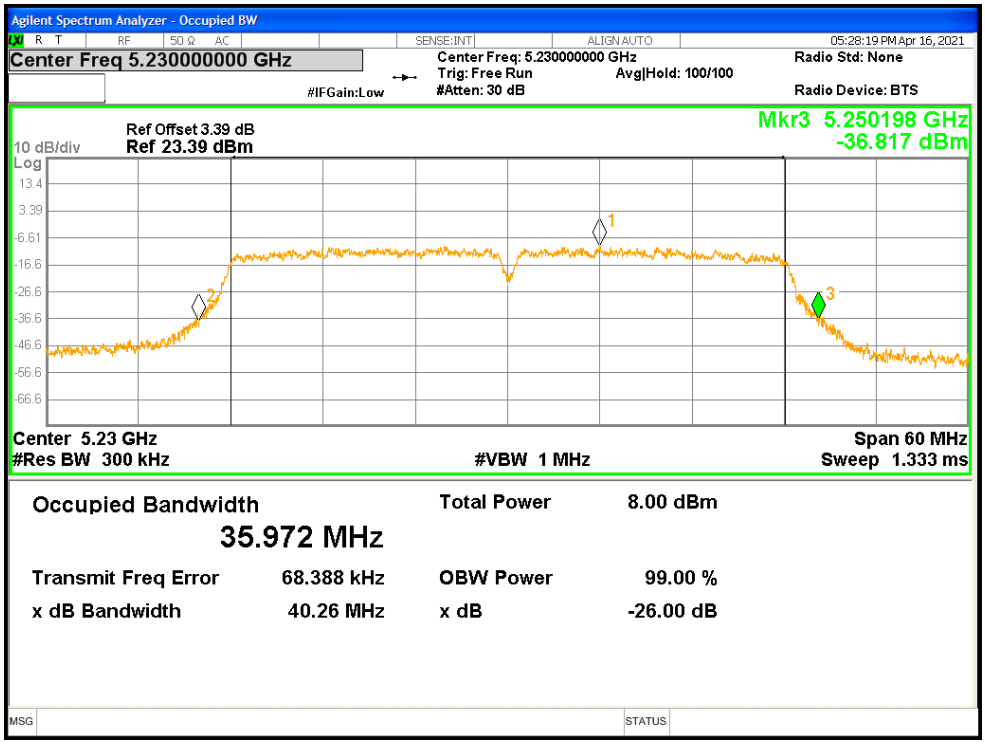
-26dB Bandwidth NVNT n40 5190MHz Ant2



-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant2

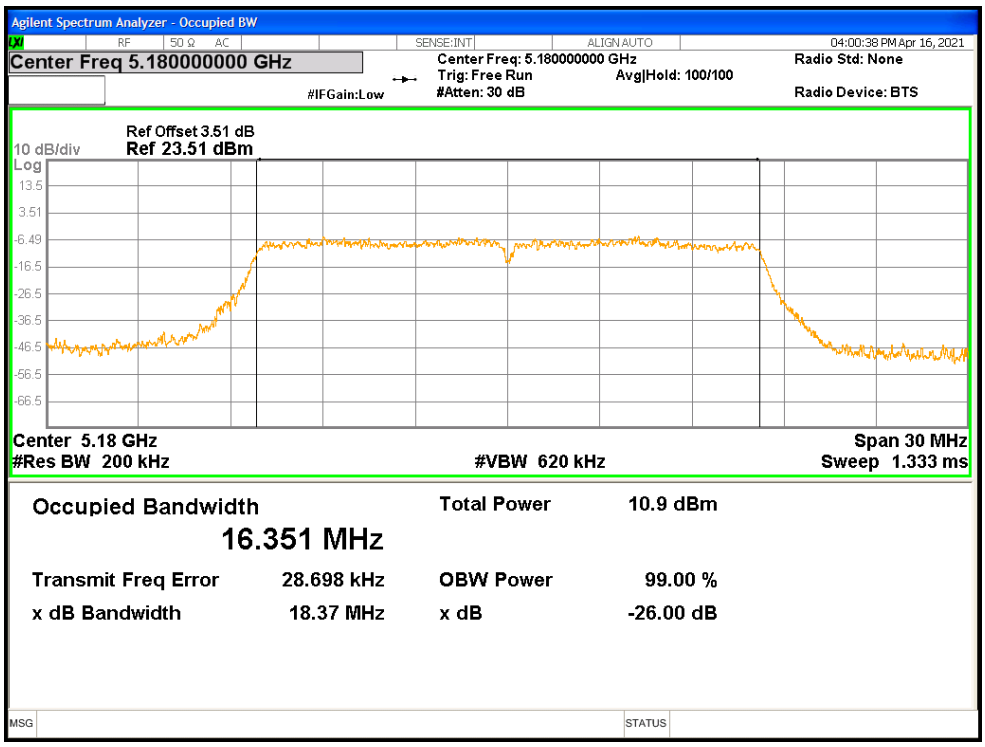


Occupied Channel Bandwidth

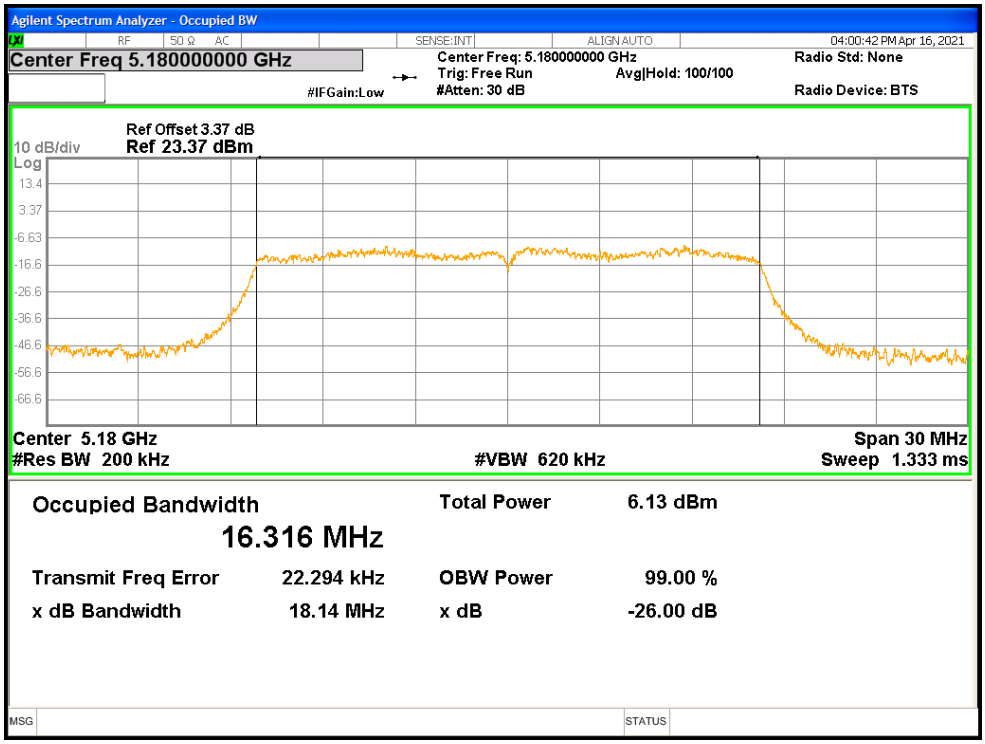
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.35139303
NVNT	a	5180	Ant2	16.31620416
NVNT	a	5200	Ant1	16.33278273
NVNT	a	5200	Ant2	16.40419107
NVNT	a	5240	Ant1	16.33808015
NVNT	a	5240	Ant2	16.38970998
NVNT	a	5745	Ant1	16.35346402
NVNT	a	5745	Ant2	16.35039644
NVNT	a	5785	Ant1	16.37870901
NVNT	a	5785	Ant2	16.36074633
NVNT	a	5825	Ant1	16.387076
NVNT	a	5825	Ant2	16.33613707
NVNT	ac20	5180	Ant1	17.5524628
NVNT	ac20	5180	Ant2	17.54772228
NVNT	ac20	5200	Ant1	17.53572668
NVNT	ac20	5200	Ant2	17.54323583
NVNT	ac20	5240	Ant1	17.5346546
NVNT	ac20	5240	Ant2	17.53480715
NVNT	ac20	5745	Ant1	17.54369628
NVNT	ac20	5745	Ant2	17.56123682
NVNT	ac20	5785	Ant1	17.53914949
NVNT	ac20	5785	Ant2	17.59715459
NVNT	ac20	5825	Ant1	17.54672211
NVNT	ac20	5825	Ant2	17.64408631
NVNT	ac40	5190	Ant1	36.02073578
NVNT	ac40	5190	Ant2	36.03007334
NVNT	ac40	5230	Ant1	36.03484309
NVNT	ac40	5230	Ant2	36.01472287
NVNT	ac40	5755	Ant1	35.96707644
NVNT	ac40	5755	Ant2	35.99624364
NVNT	ac40	5795	Ant1	36.0262435
NVNT	ac40	5795	Ant2	36.05357291
NVNT	ac80	5210	Ant1	74.74362701
NVNT	ac80	5210	Ant2	74.51813941
NVNT	ac80	5775	Ant1	74.50890704
NVNT	ac80	5775	Ant2	74.47585259
NVNT	n20	5180	Ant1	17.54217013
NVNT	n20	5180	Ant2	17.55067162
NVNT	n20	5200	Ant1	17.5290438
NVNT	n20	5200	Ant2	17.55450094
NVNT	n20	5240	Ant1	17.52981804

NVNT	n20	5240	Ant2	17.53700556
NVNT	n20	5745	Ant1	17.53674517
NVNT	n20	5745	Ant2	17.5356858
NVNT	n20	5785	Ant1	17.54707783
NVNT	n20	5785	Ant2	17.5401699
NVNT	n20	5825	Ant1	17.53836577
NVNT	n20	5825	Ant2	17.54645025
NVNT	n40	5190	Ant1	36.02603573
NVNT	n40	5190	Ant2	36.06334373
NVNT	n40	5230	Ant1	36.02934527
NVNT	n40	5230	Ant2	36.03402288
NVNT	n40	5755	Ant1	36.01139561
NVNT	n40	5755	Ant2	35.996708
NVNT	n40	5795	Ant1	36.00033292
NVNT	n40	5795	Ant2	36.0213126

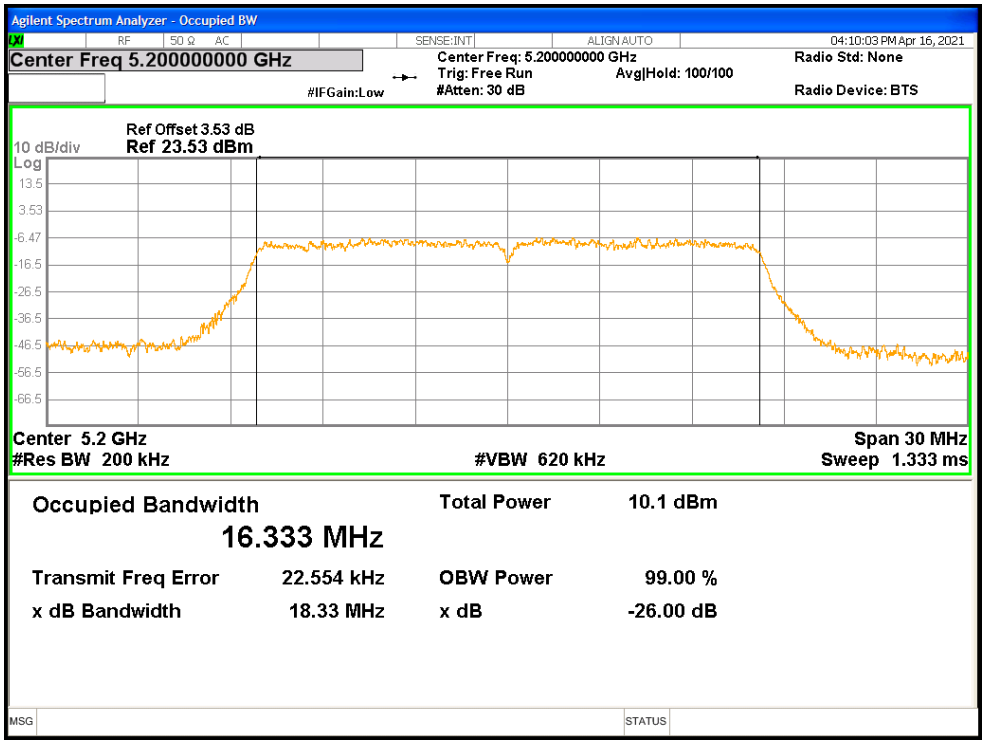
OBW NVNT a 5180MHz Ant1



OBW NVNT a 5180MHz Ant2



OBW NVNT a 5200MHz Ant1



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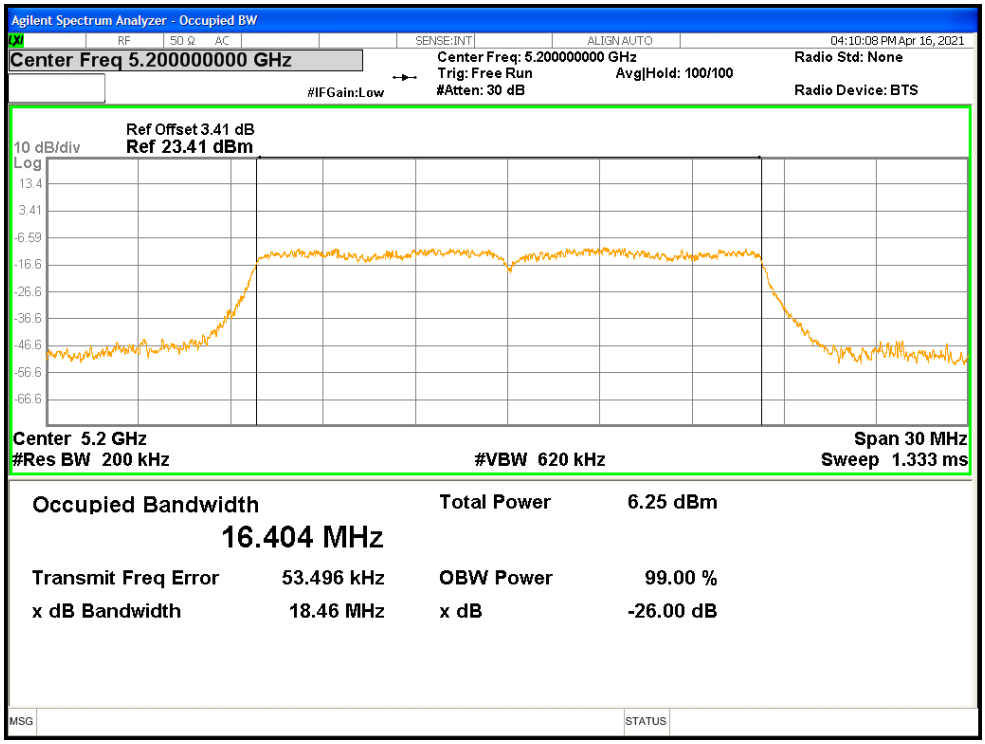
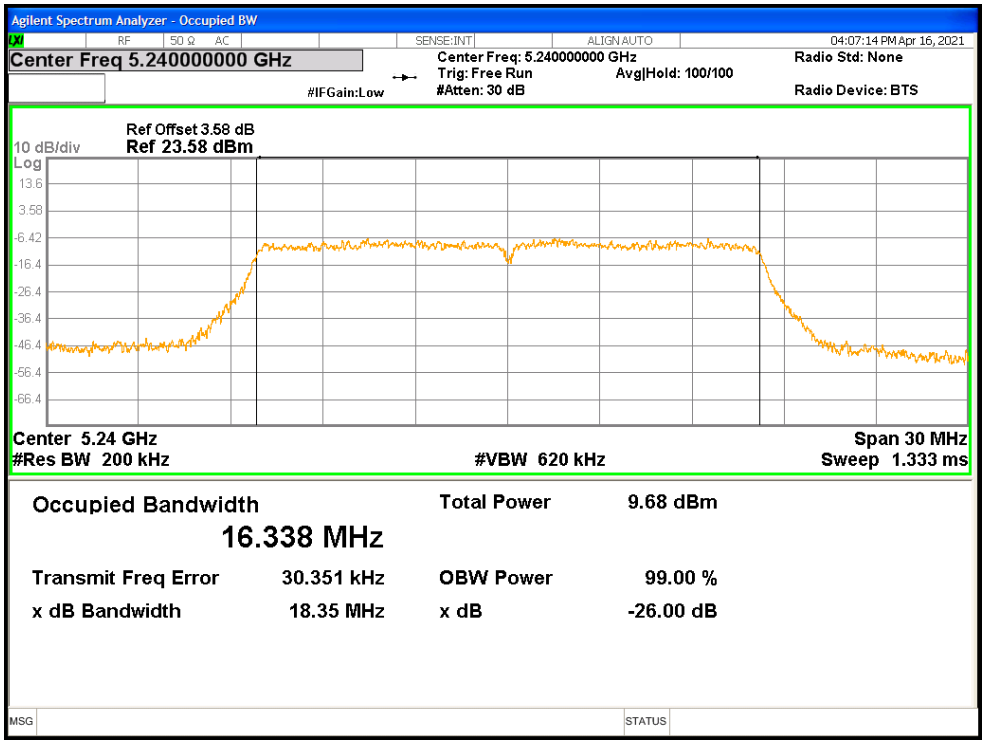


OBW NVNT a 5240MHz Ant1



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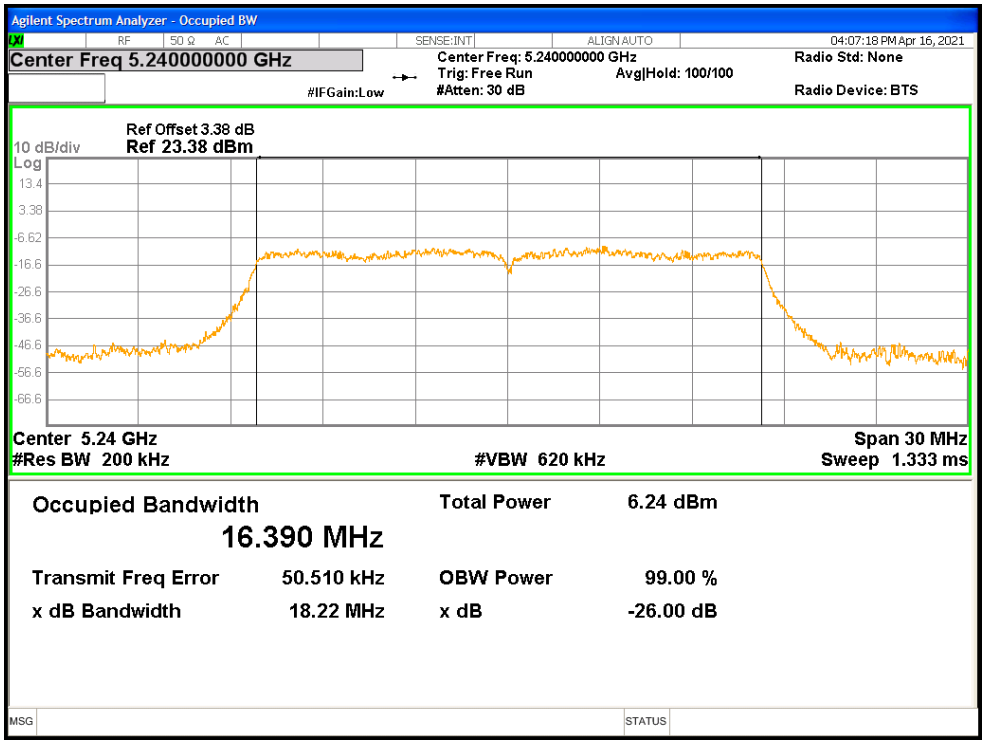
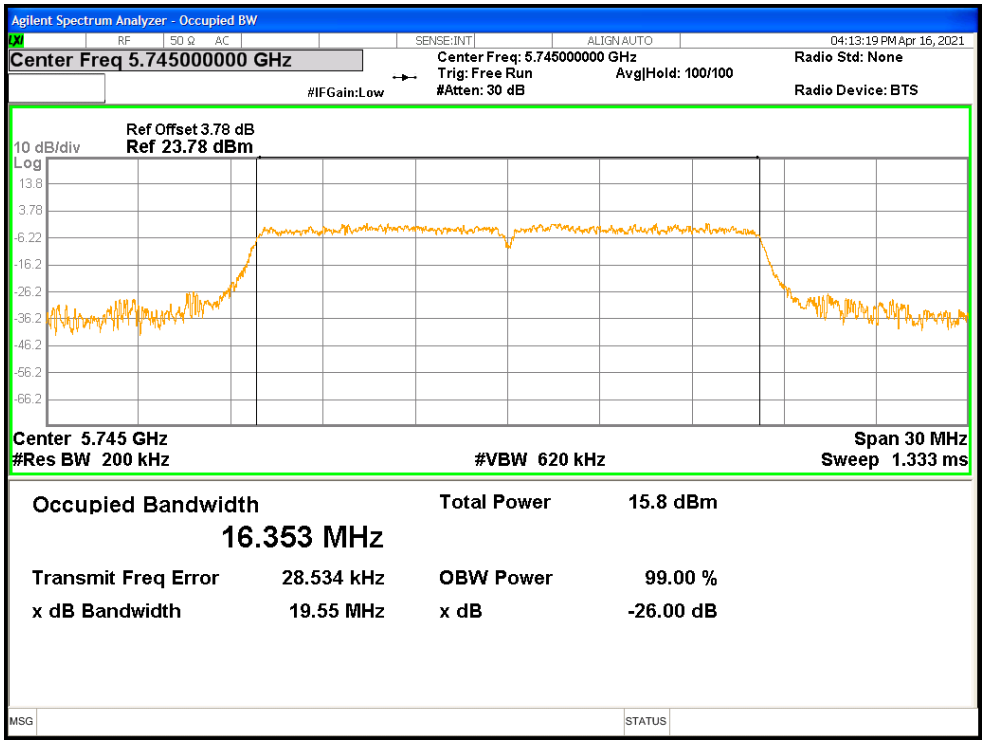
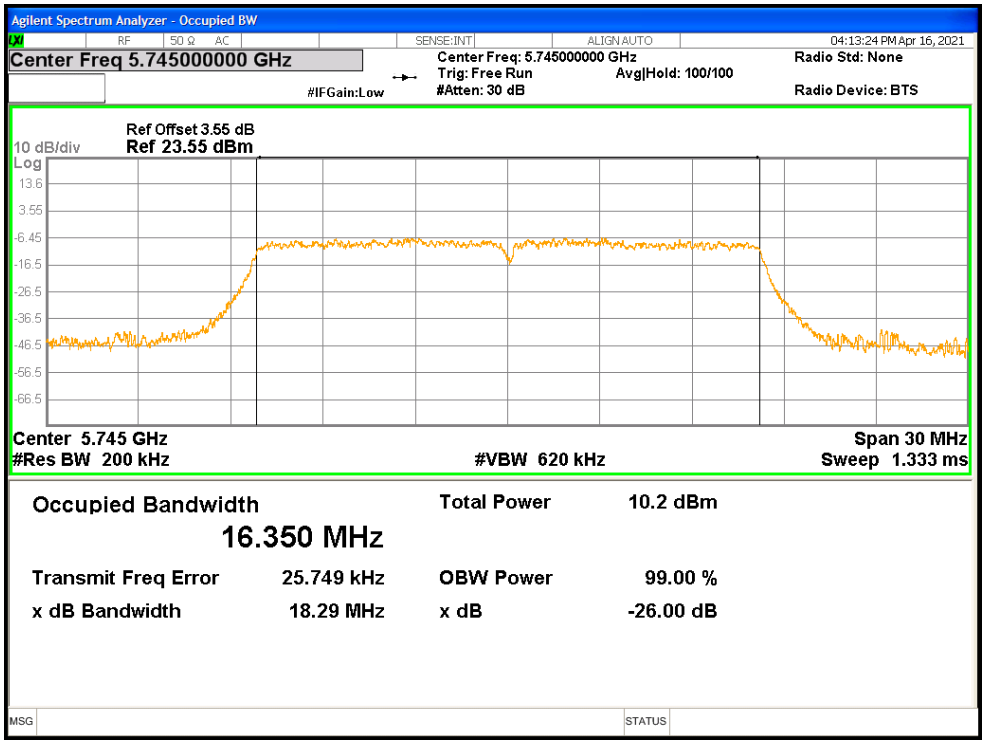


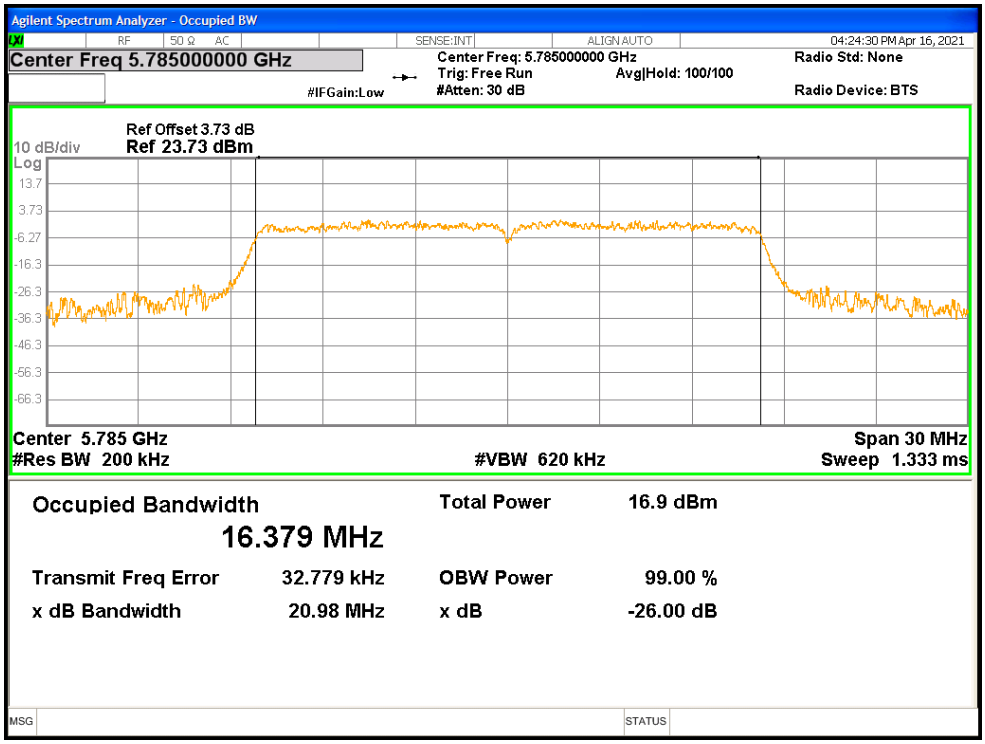
OBW NVNT a 5745MHz Ant1



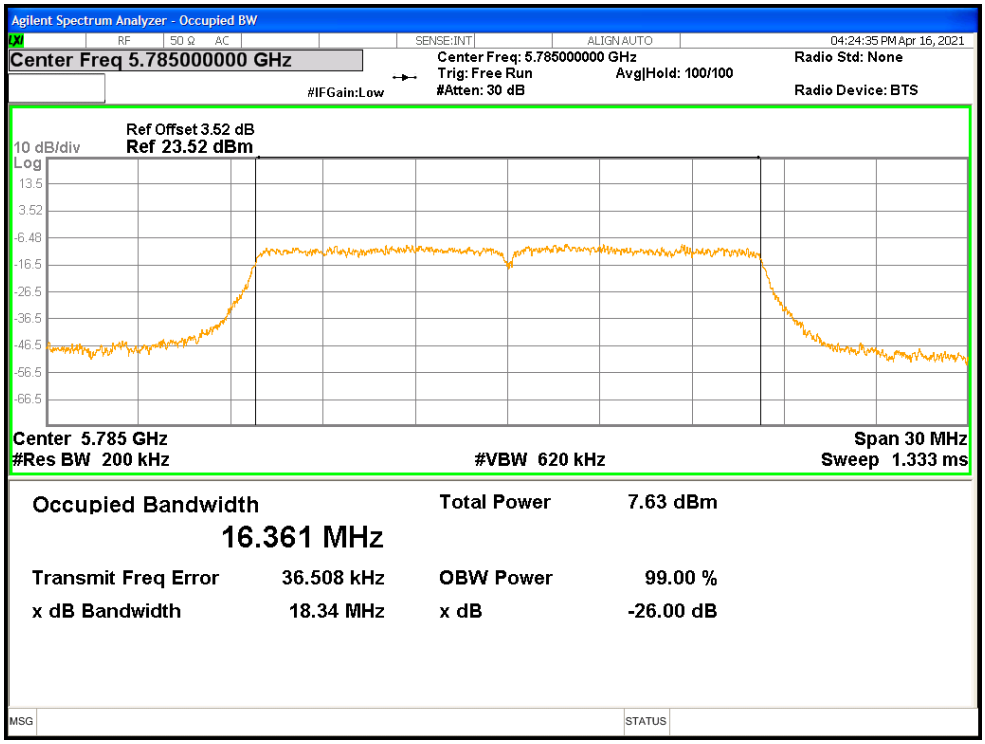
OBW NVNT a 5745MHz Ant2



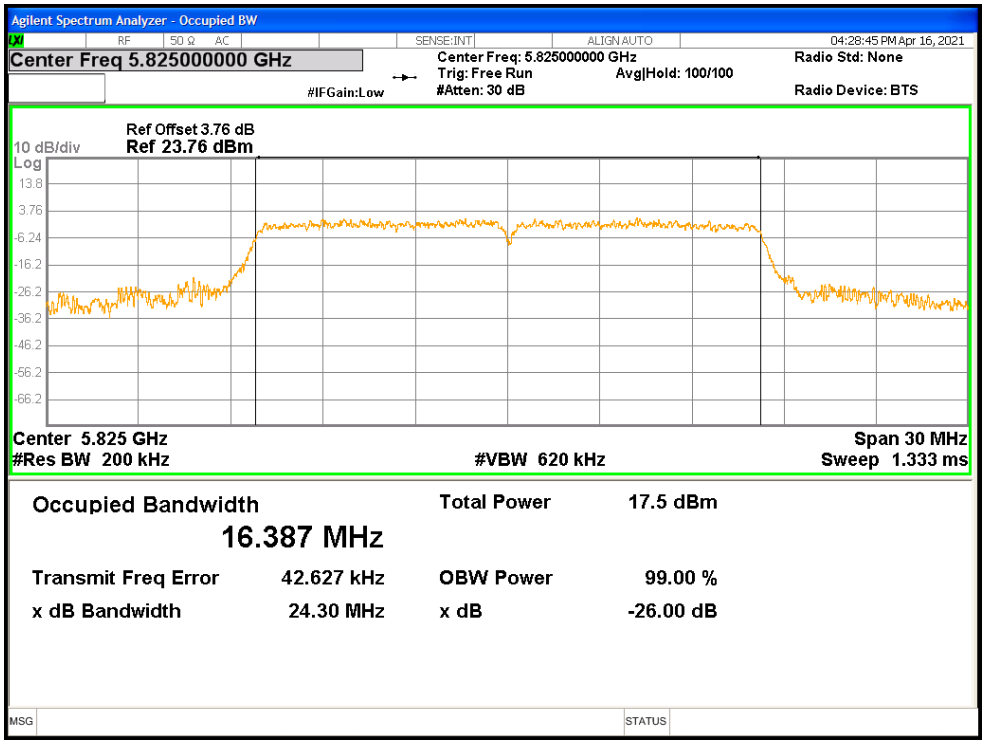
OBW NVNT a 5785MHz Ant1



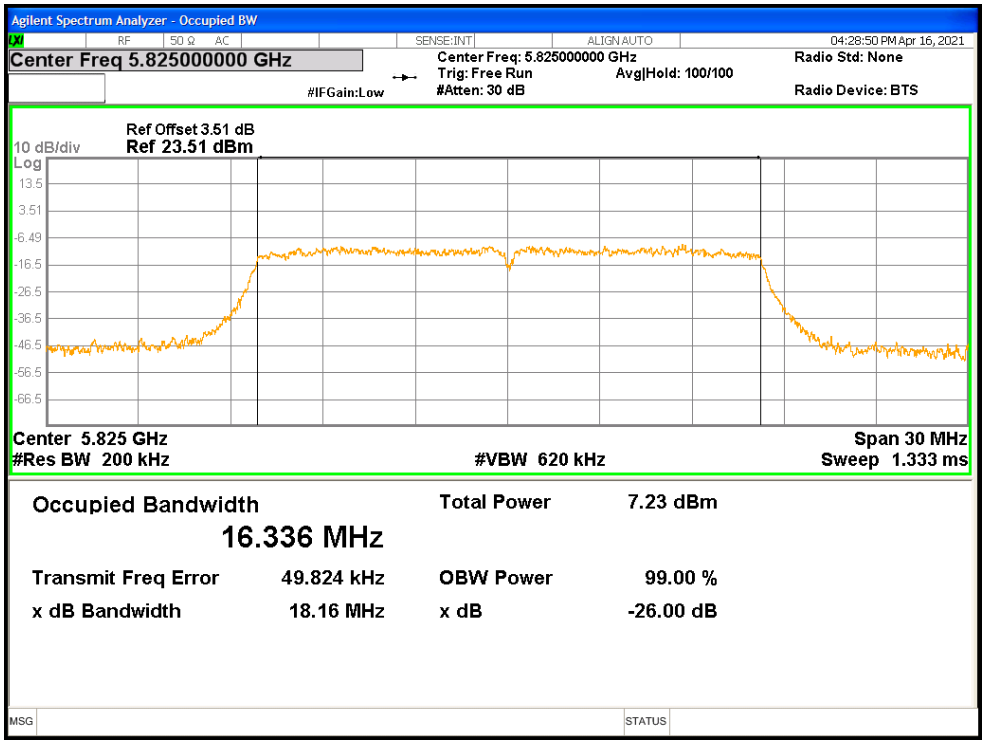
OBW NVNT a 5785MHz Ant2



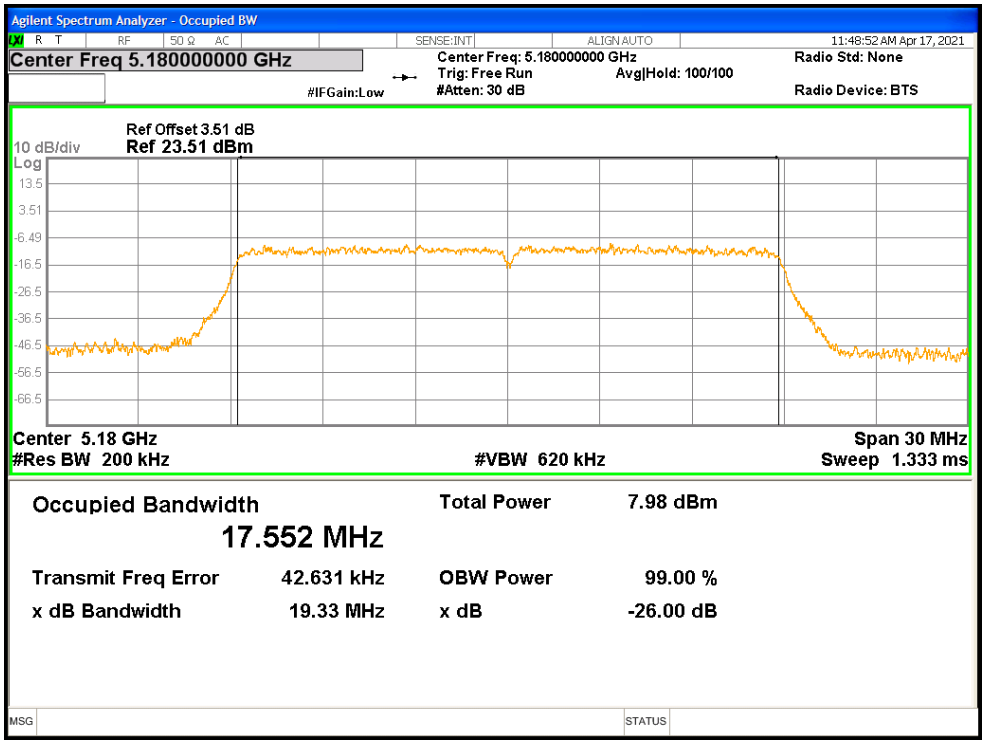
OBW NVNT a 5825MHz Ant1



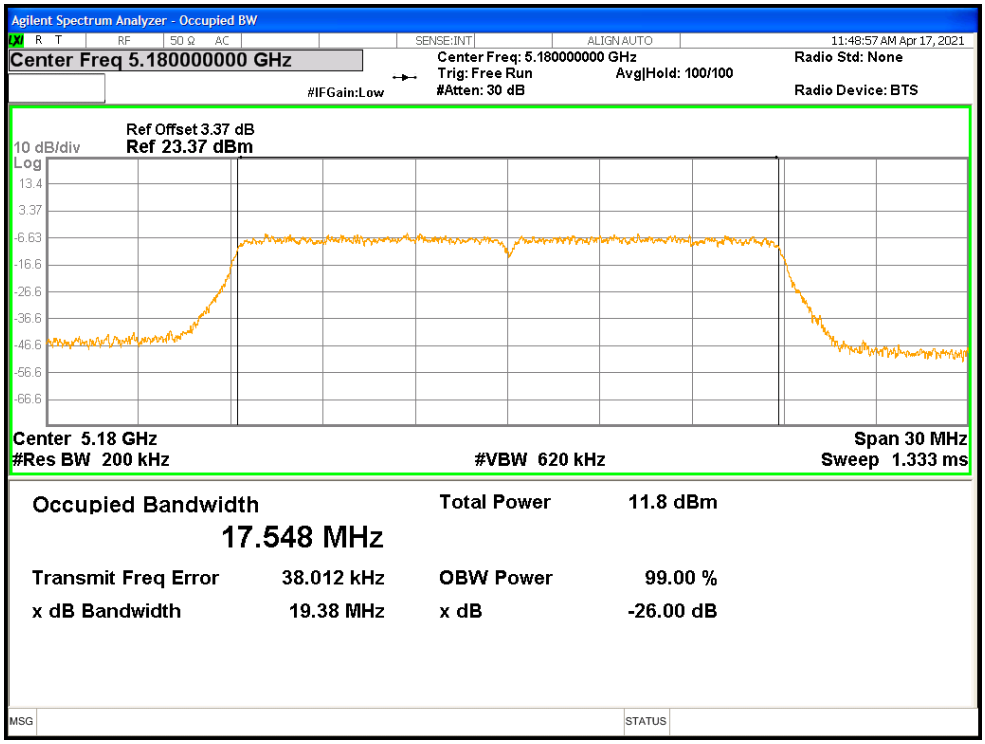
OBW NVNT a 5825MHz Ant2



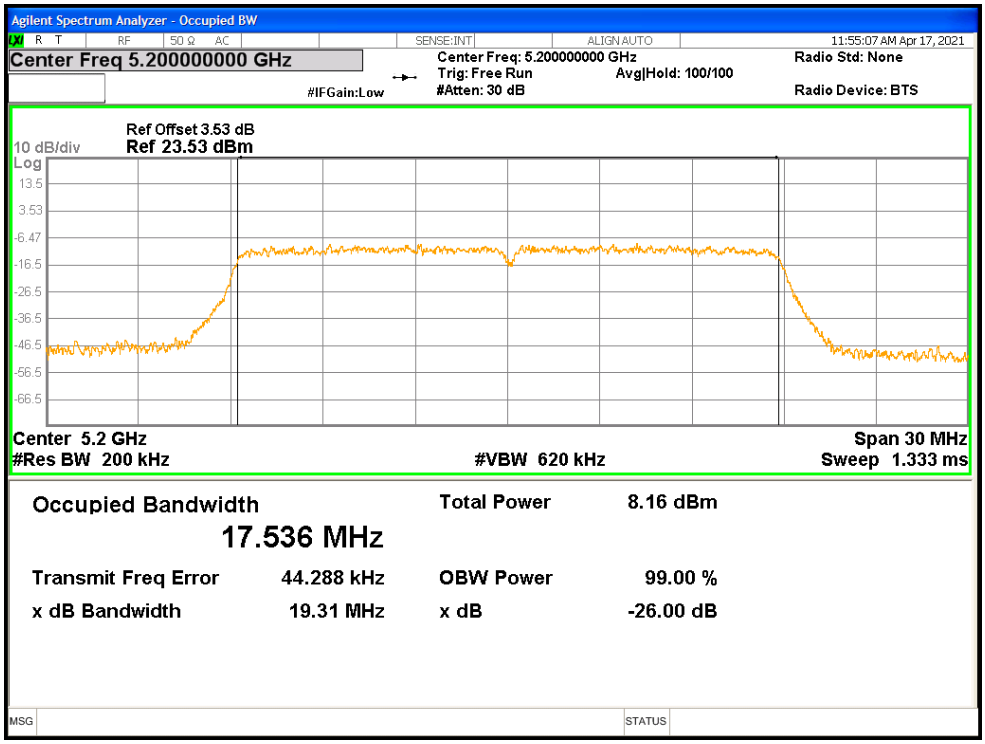
OBW NVNT ac20 5180MHz Ant1



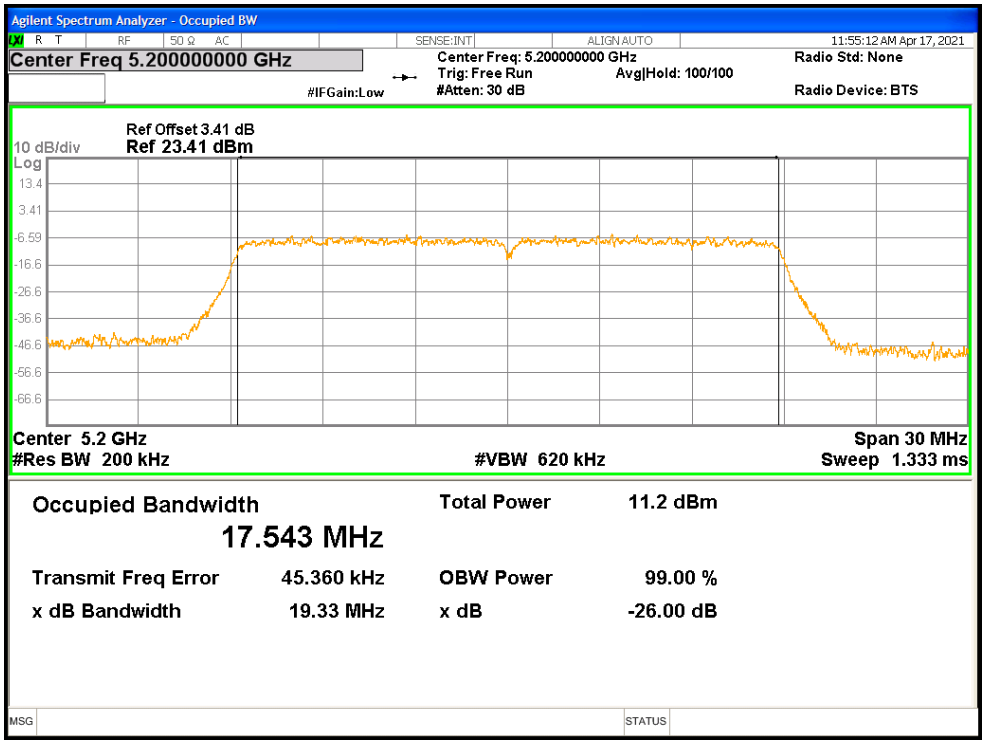
OBW NVNT ac20 5180MHz Ant2



OBW NVNT ac20 5200MHz Ant1



OBW NVNT ac20 5200MHz Ant2



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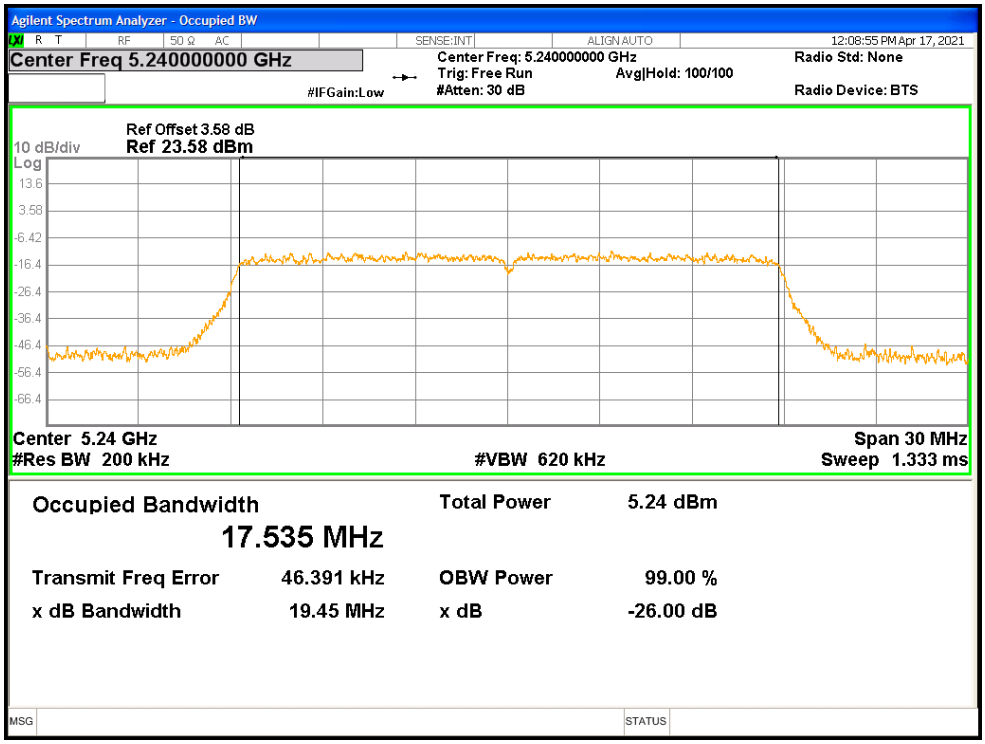
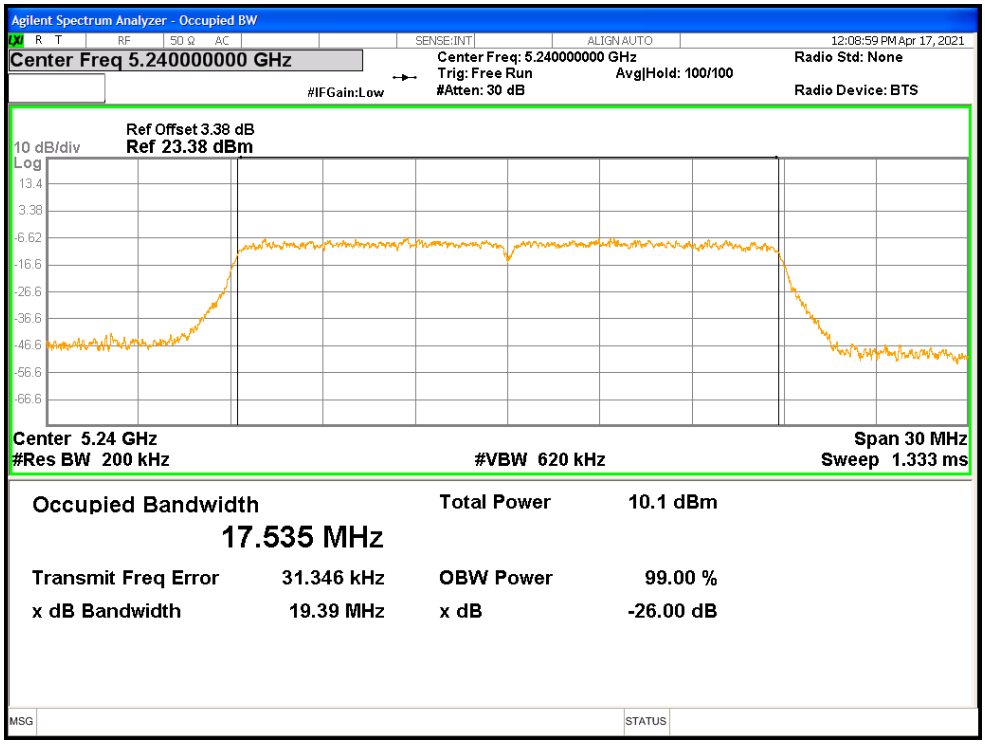
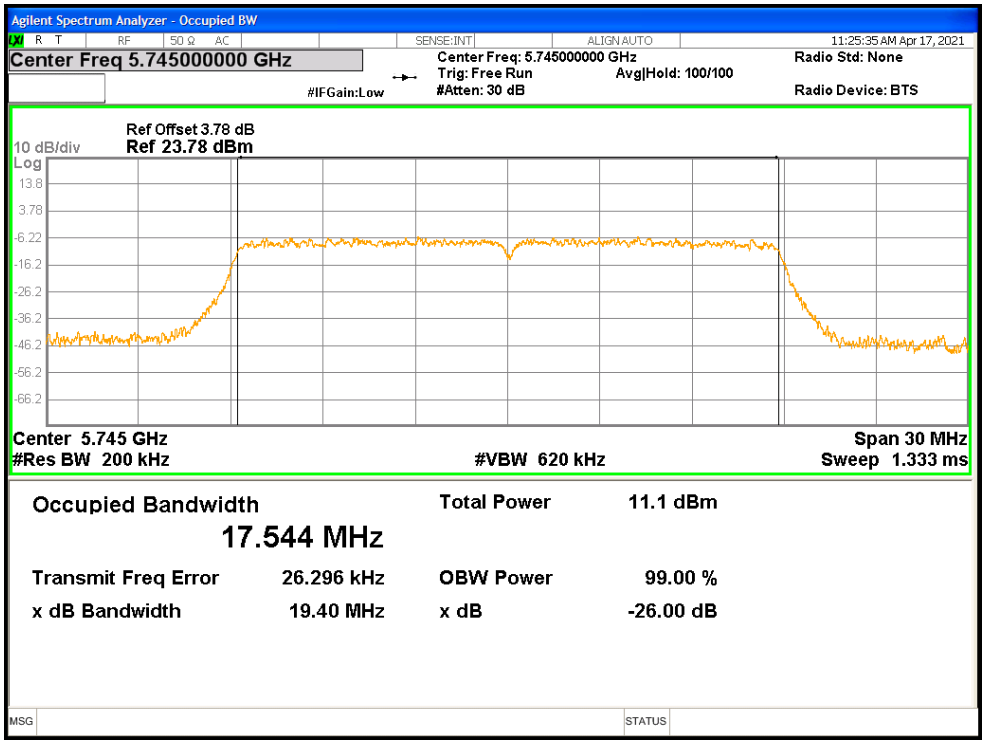


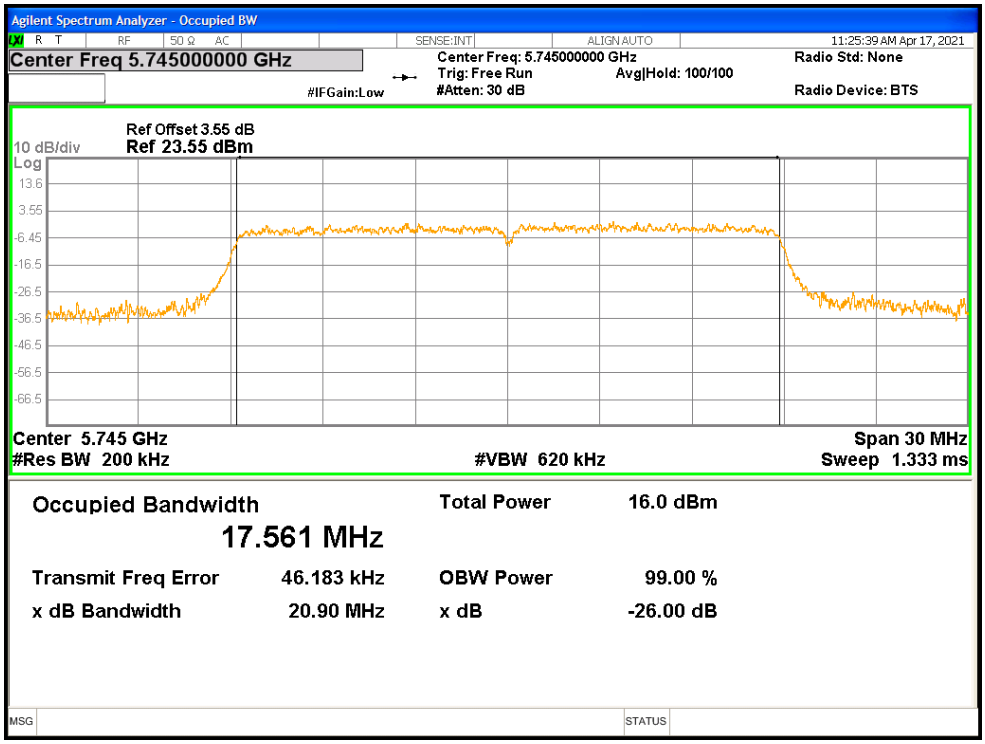
OBW NVNT ac20 5240MHz Ant2



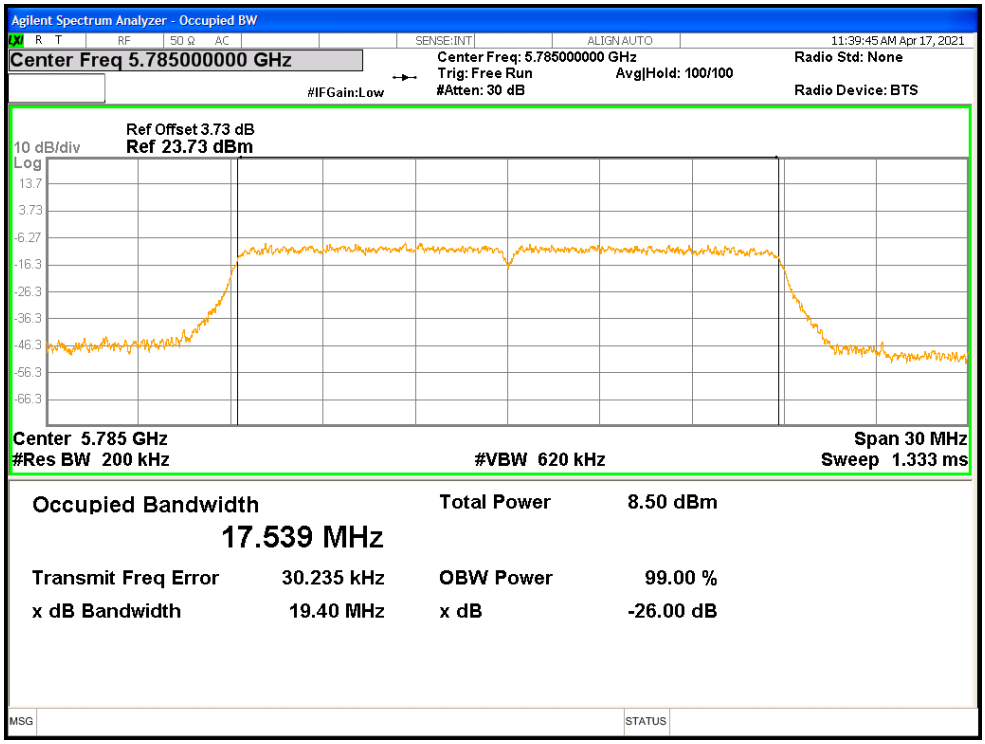
OBW NVNT ac20 5745MHz Ant1



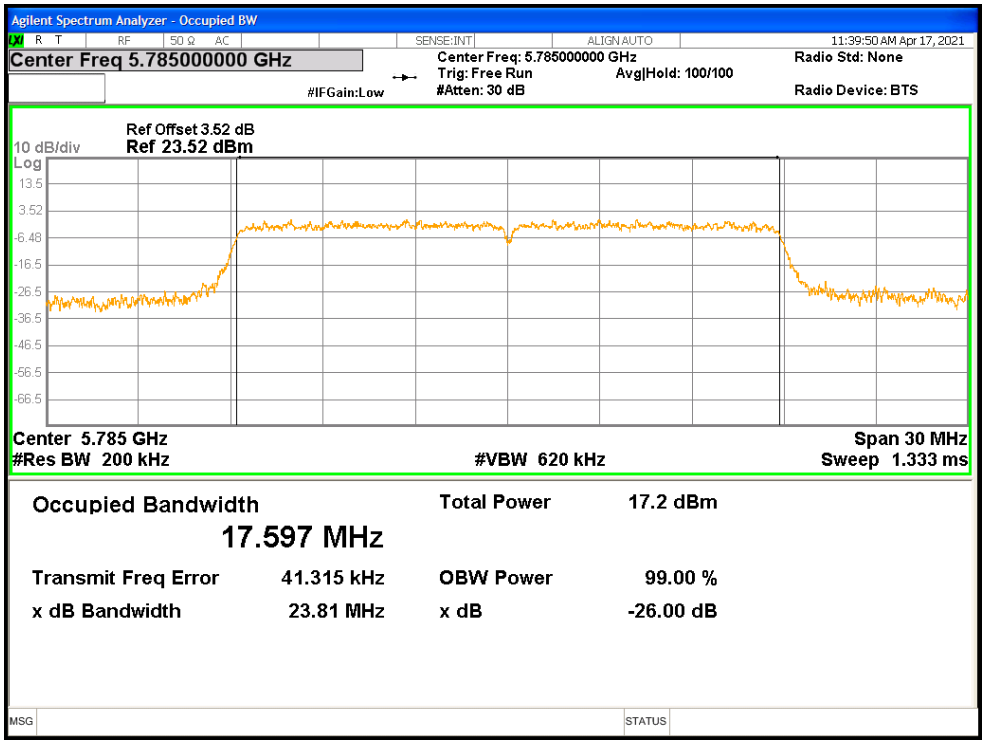
OBW NVNT ac20 5745MHz Ant2



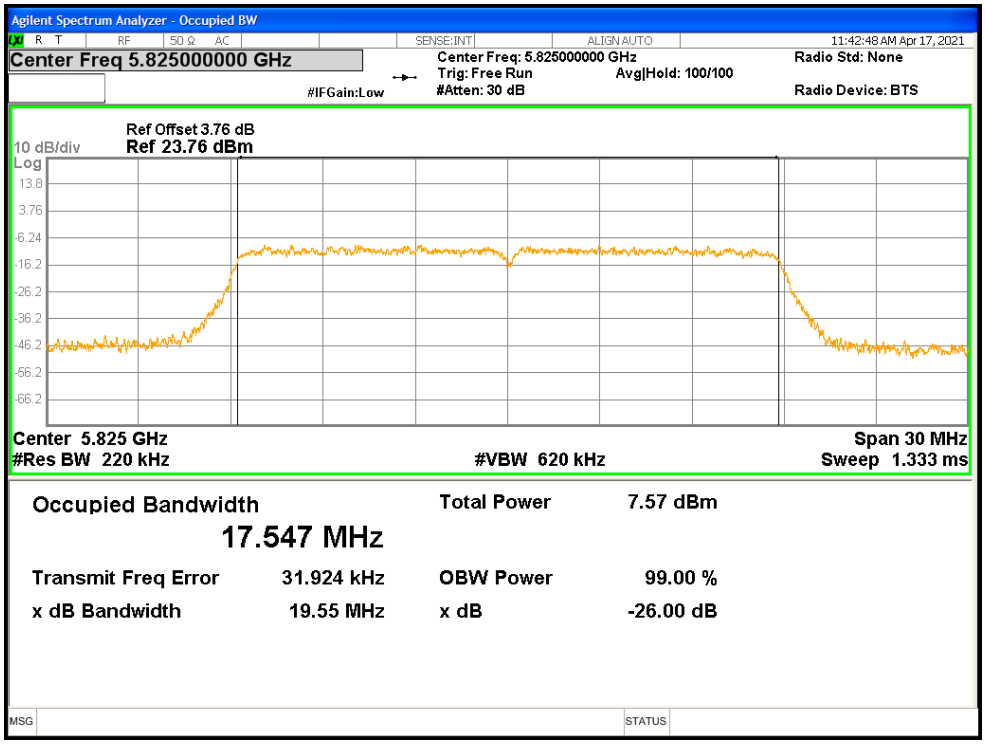
OBW NVNT ac20 5785MHz Ant1



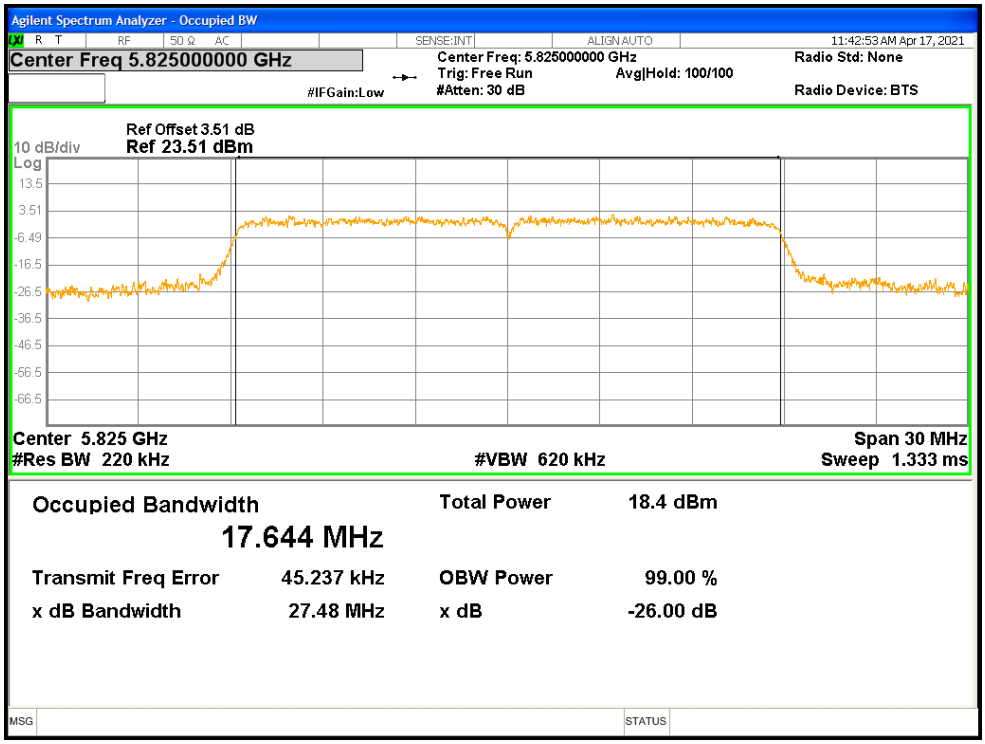
OBW NVNT ac20 5785MHz Ant2



OBW NVNT ac20 5825MHz Ant1



OBW NVNT ac20 5825MHz Ant2



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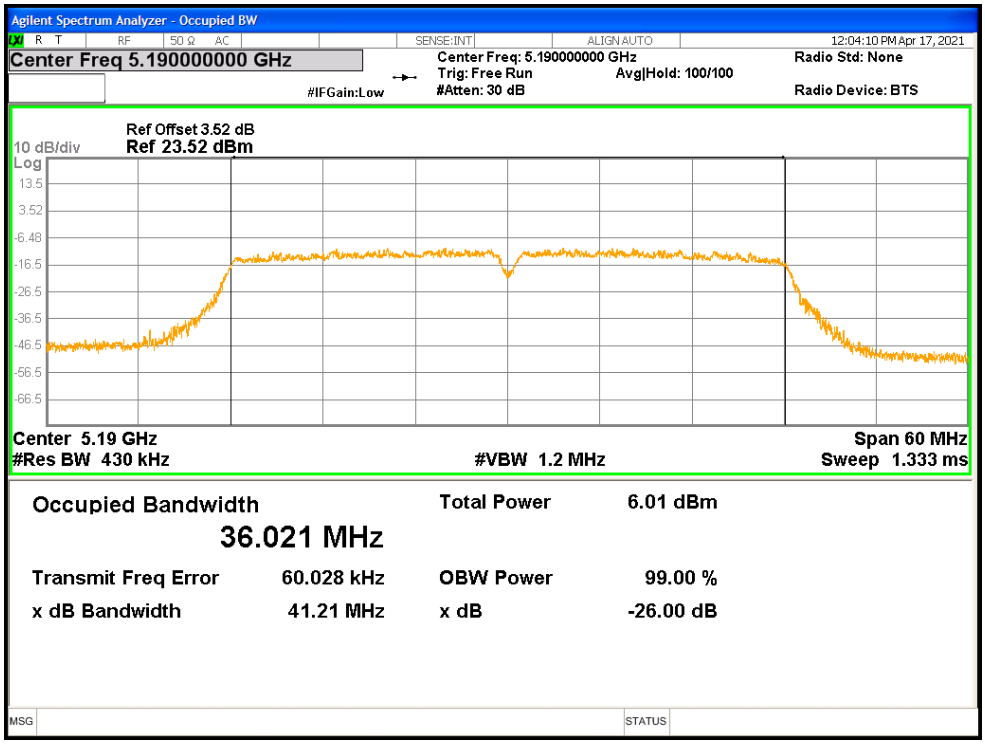
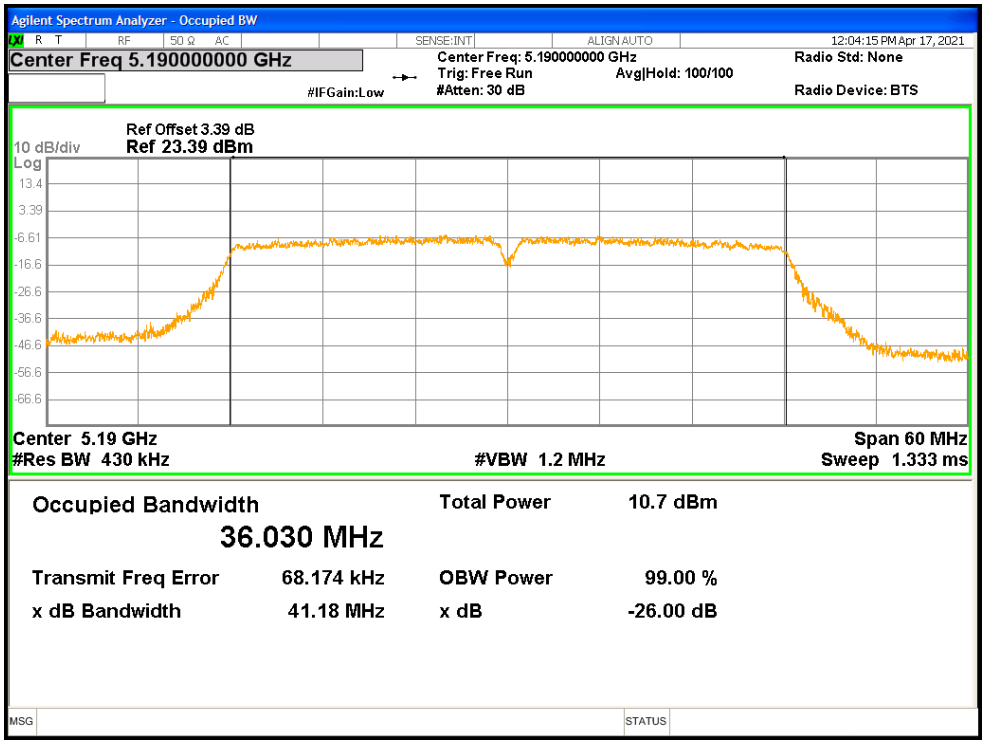
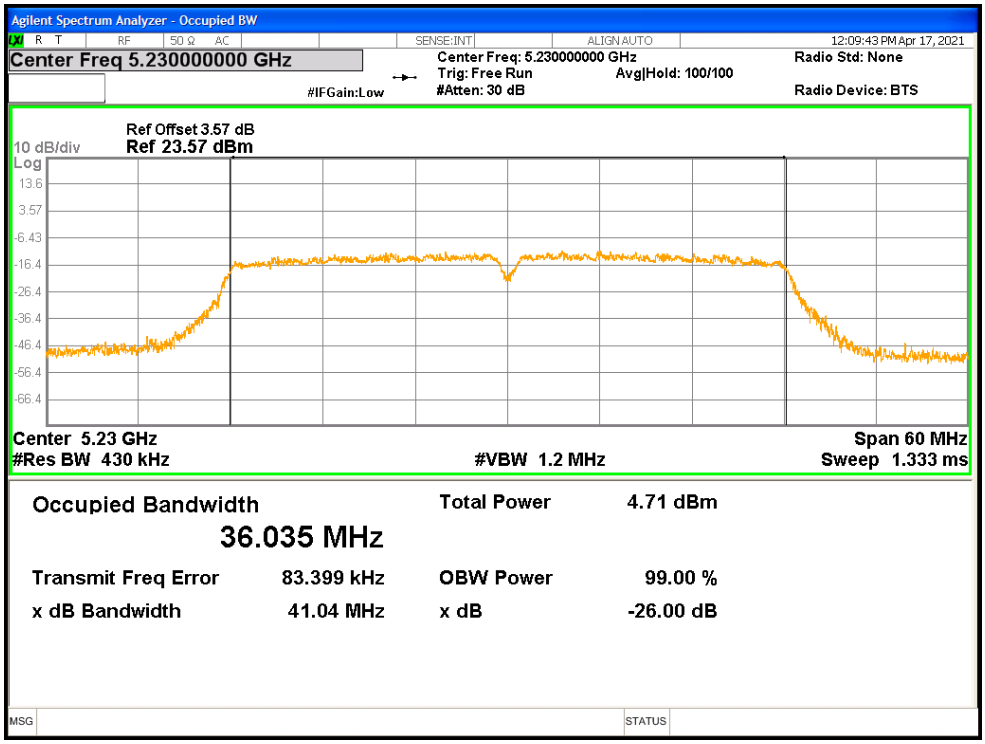


OBW NVNT ac40 5190MHz Ant2



OBW NVNT ac40 5230MHz Ant1



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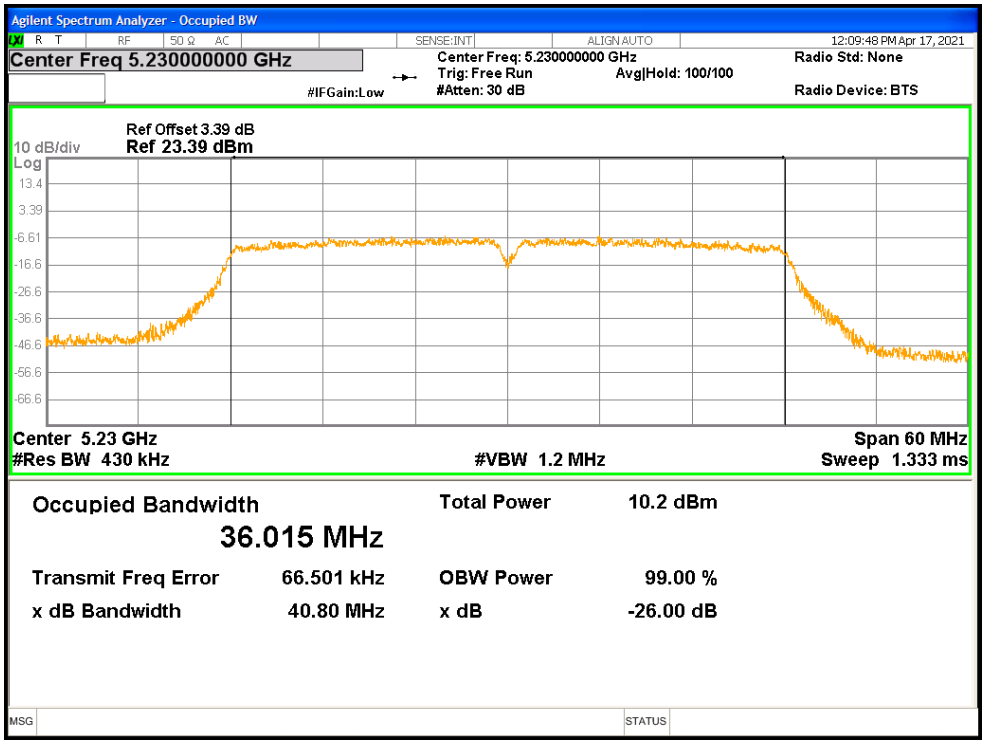

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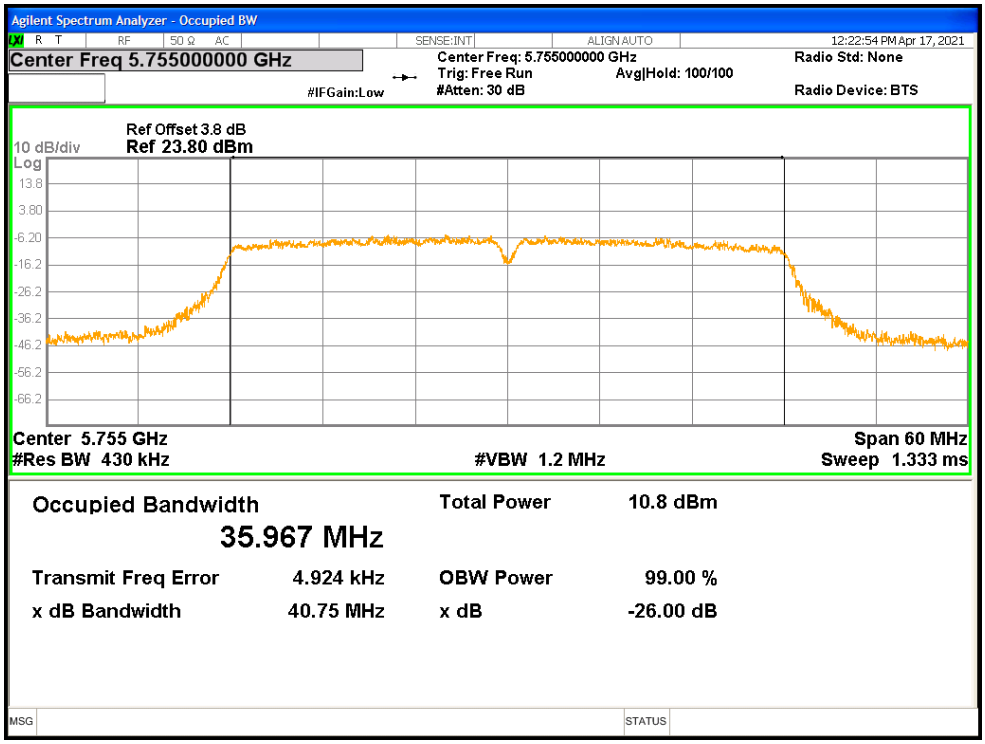

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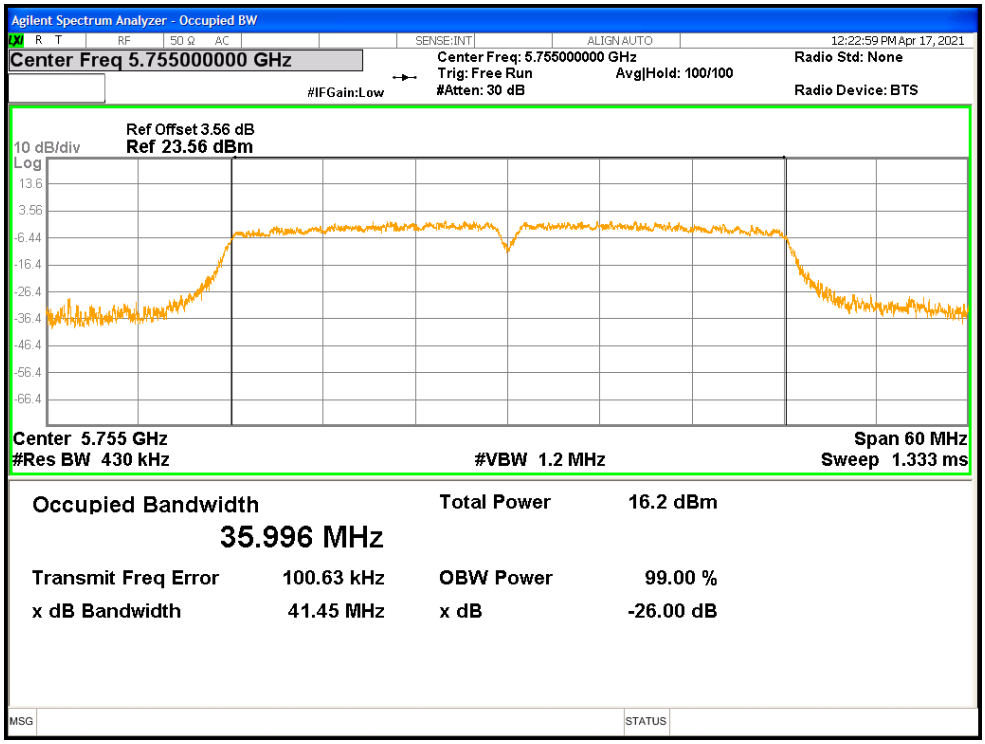

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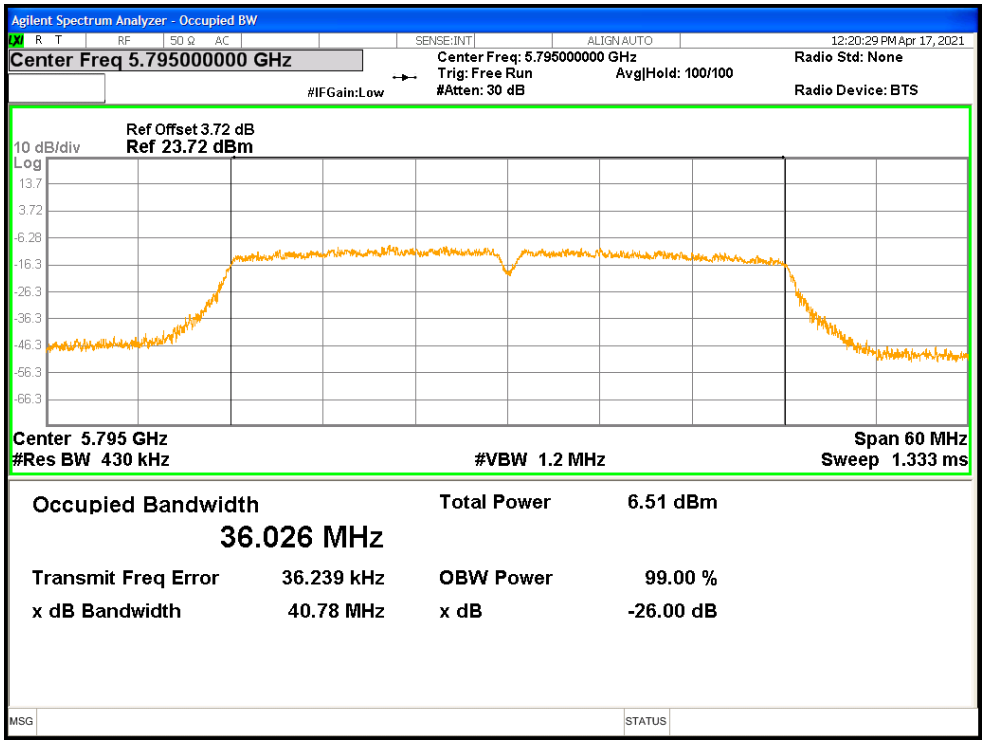
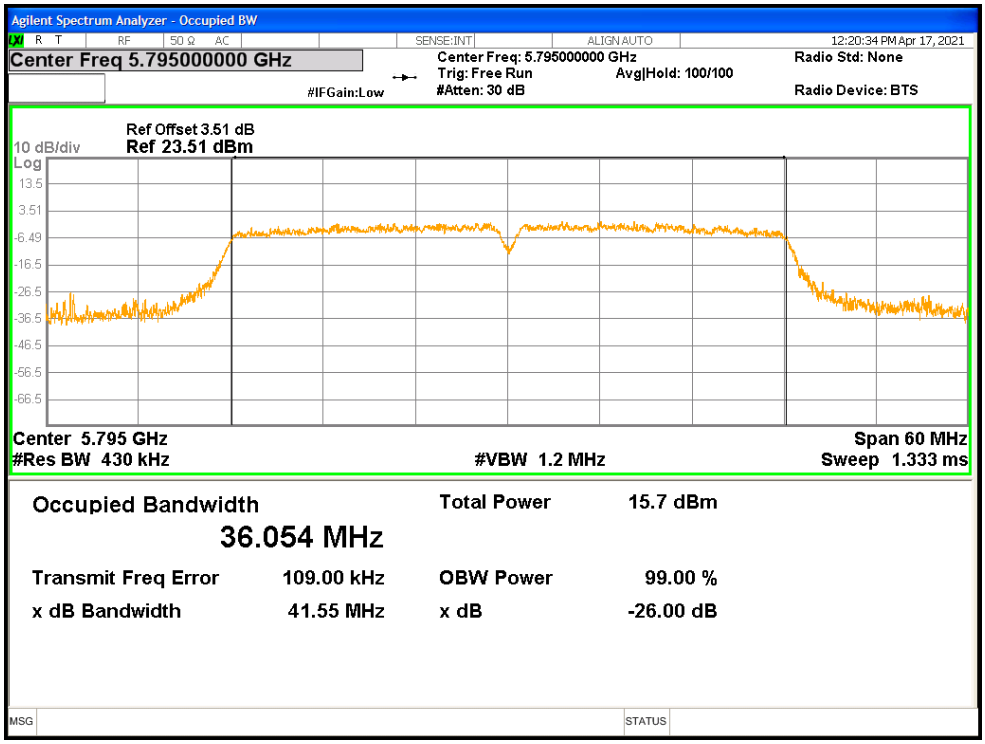
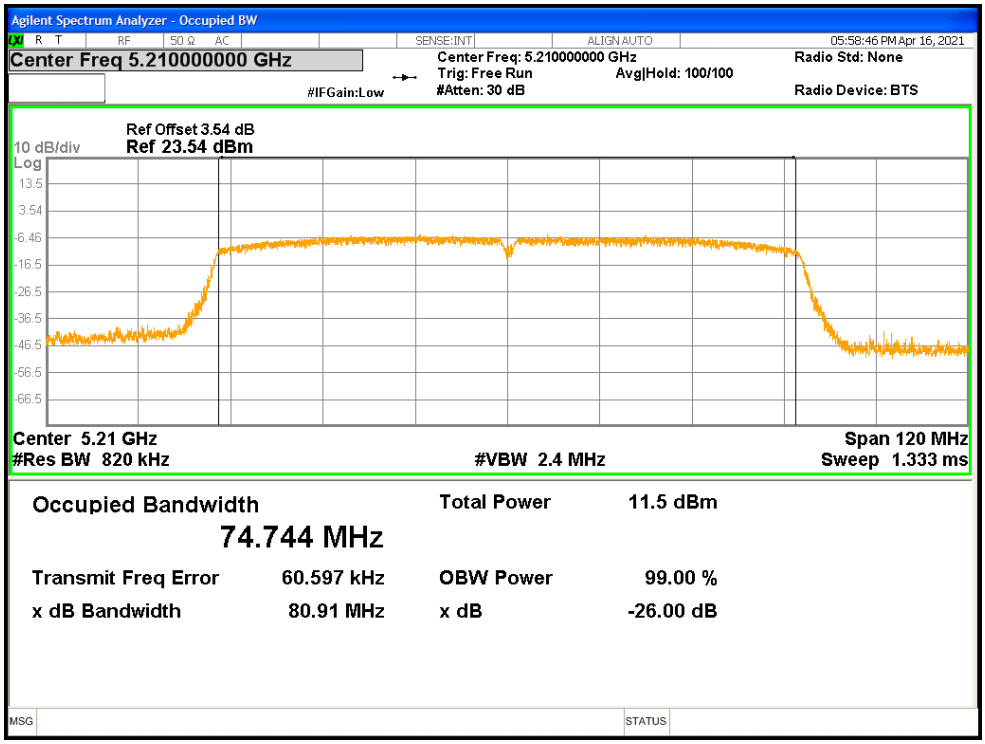


OBW NVNT ac40 5795MHz Ant2



OBW NVNT ac80 5210MHz Ant1



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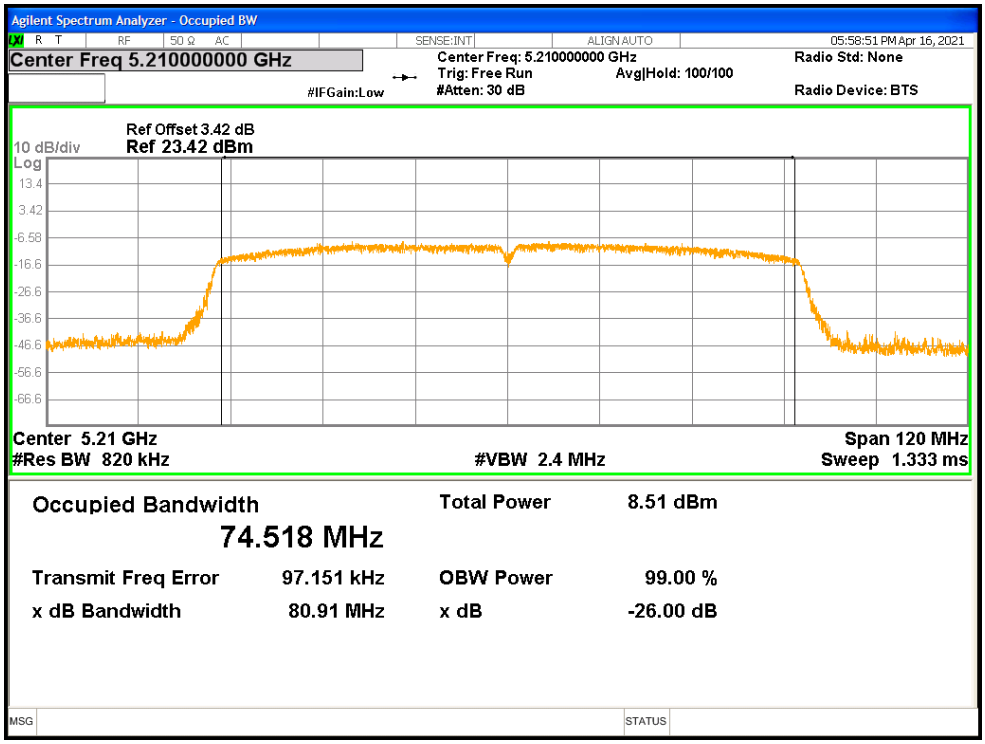

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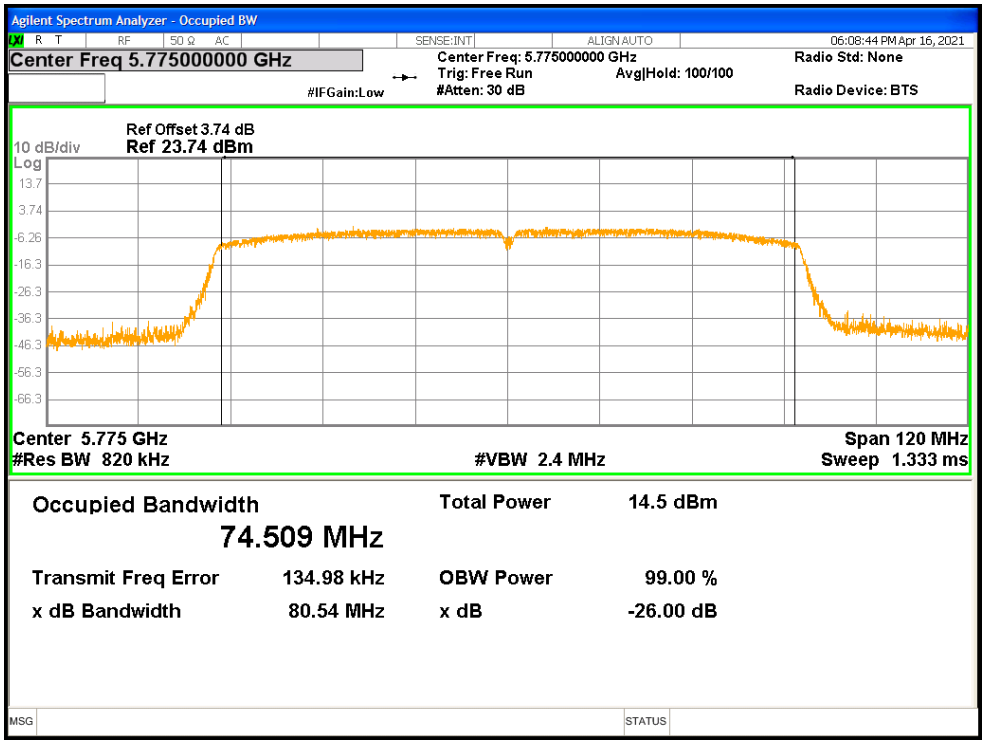

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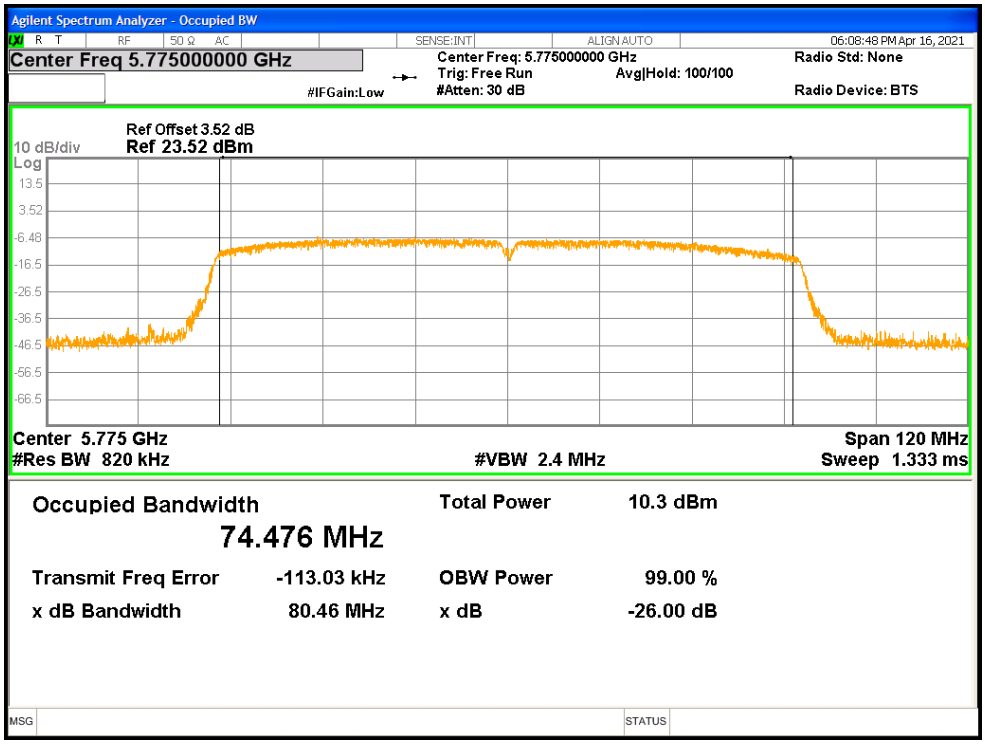
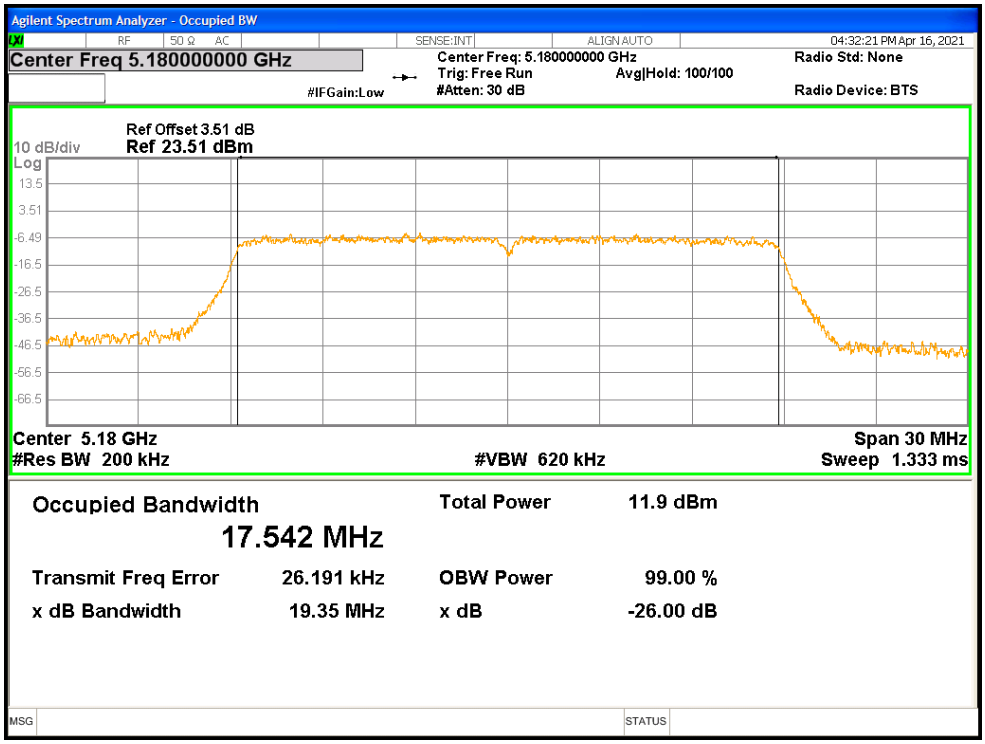
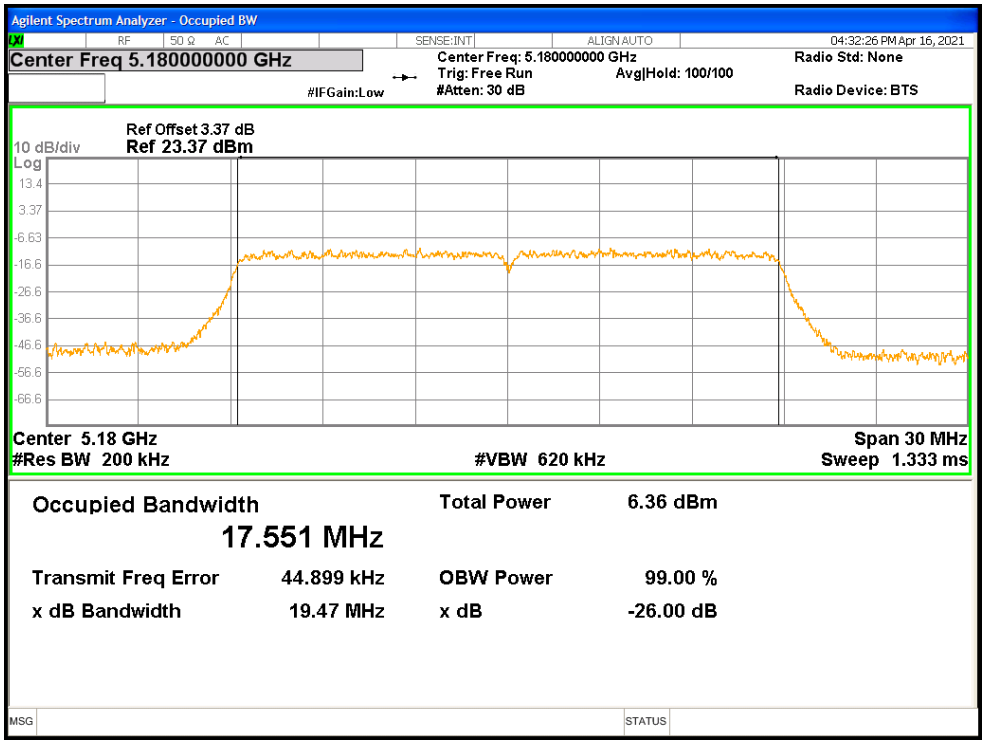


OBW NVNT n20 5180MHz Ant1



OBW NVNT n20 5180MHz Ant2



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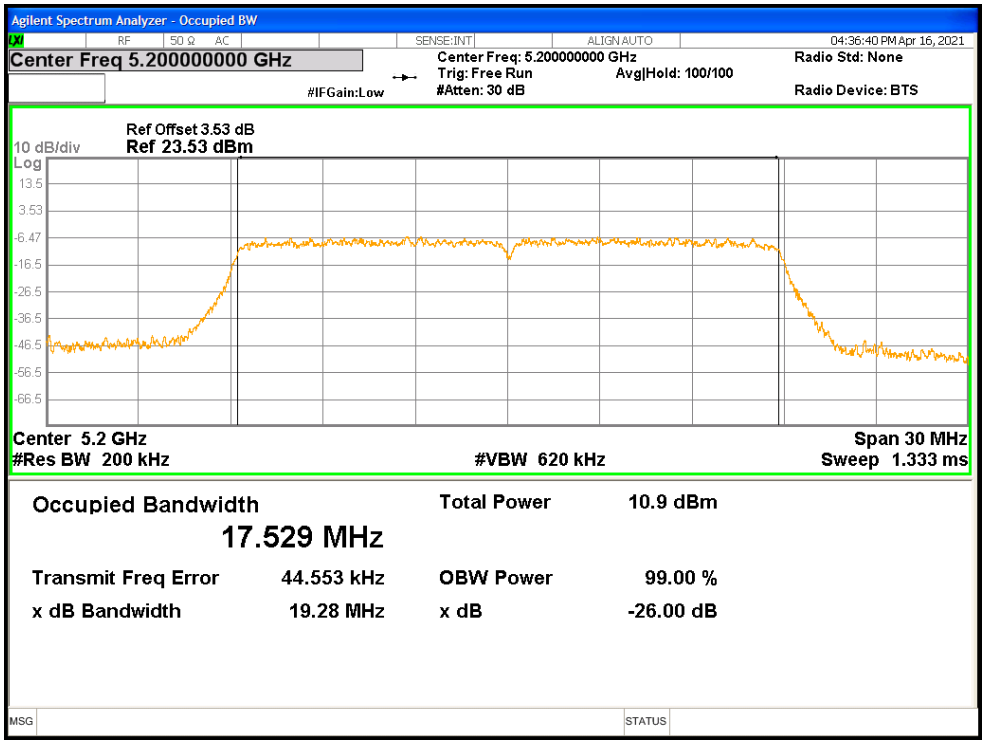
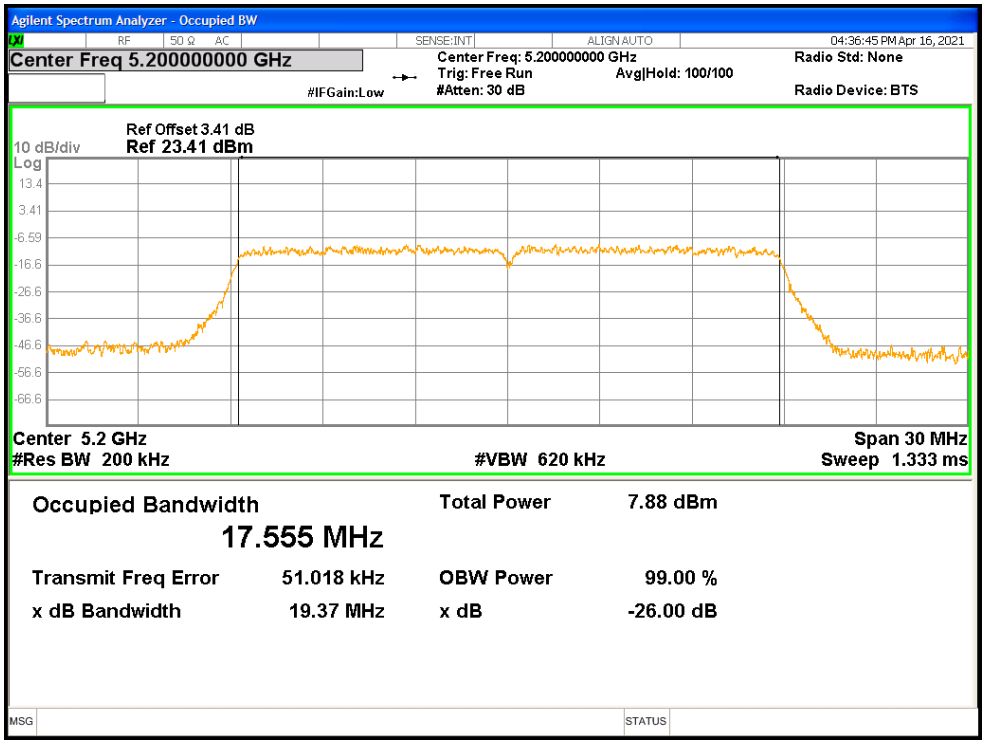


OBW NVNT n20 5200MHz Ant2



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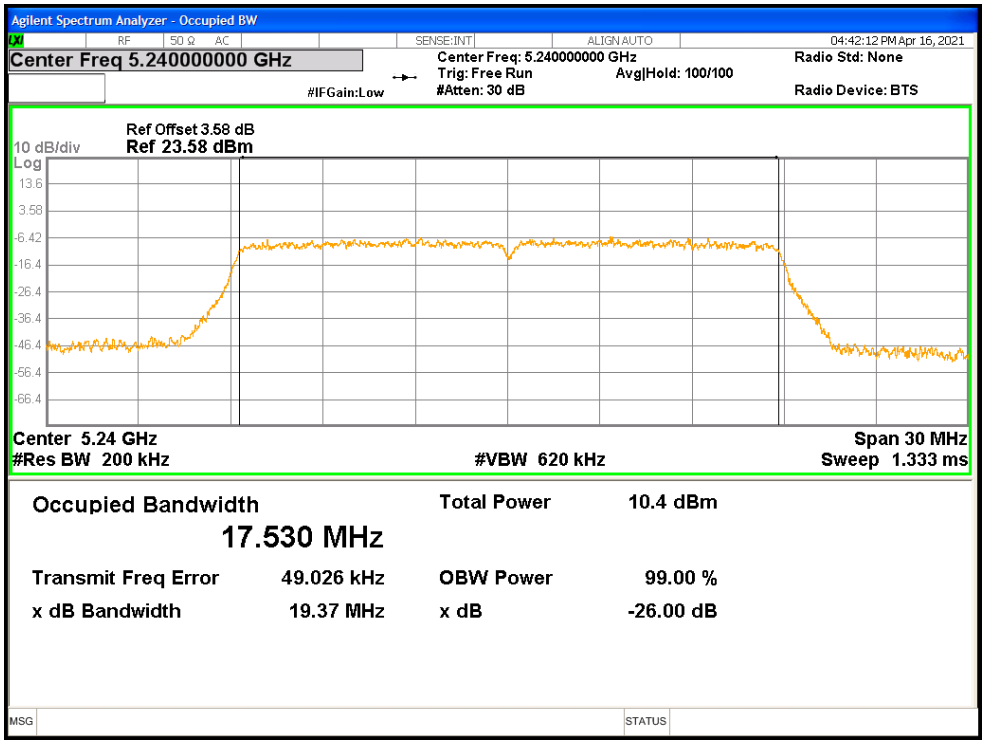
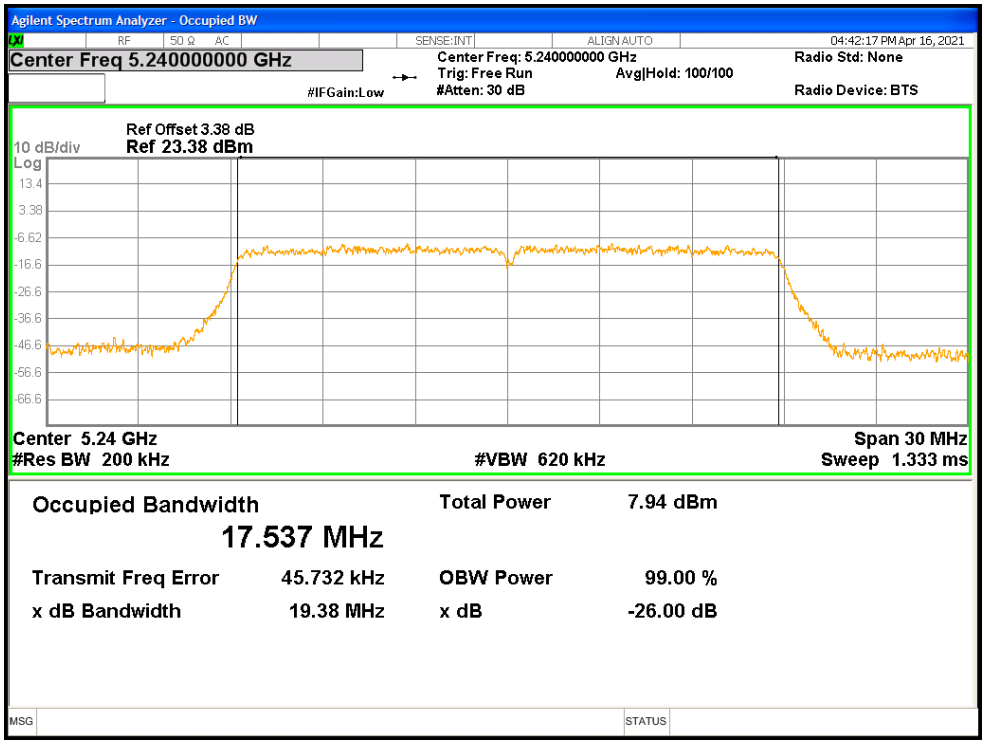
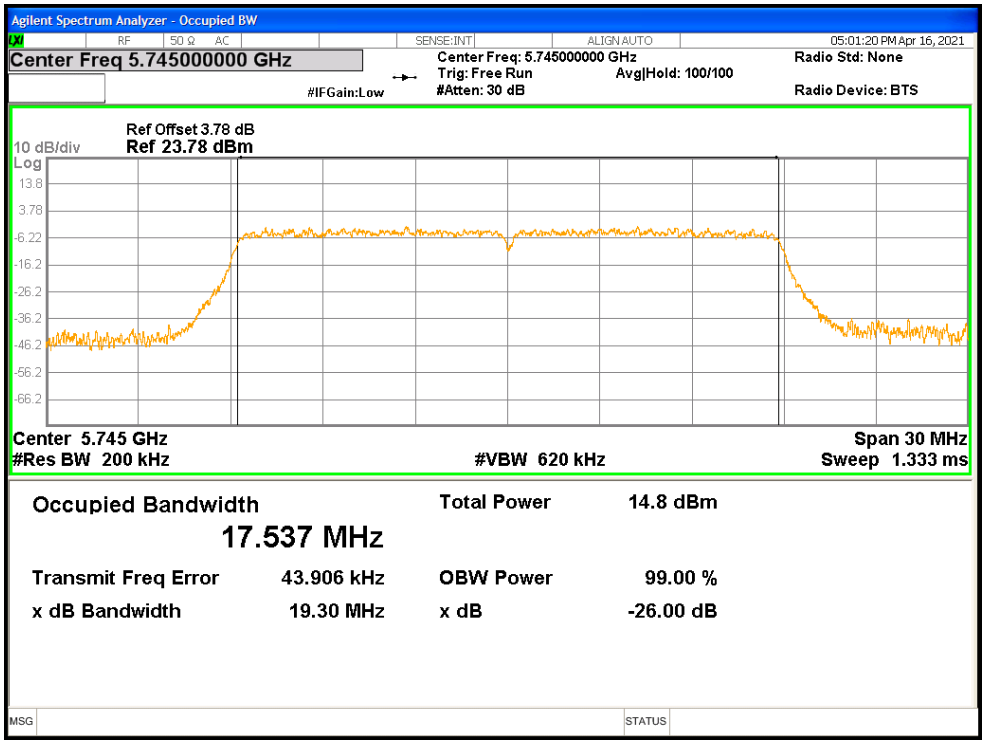


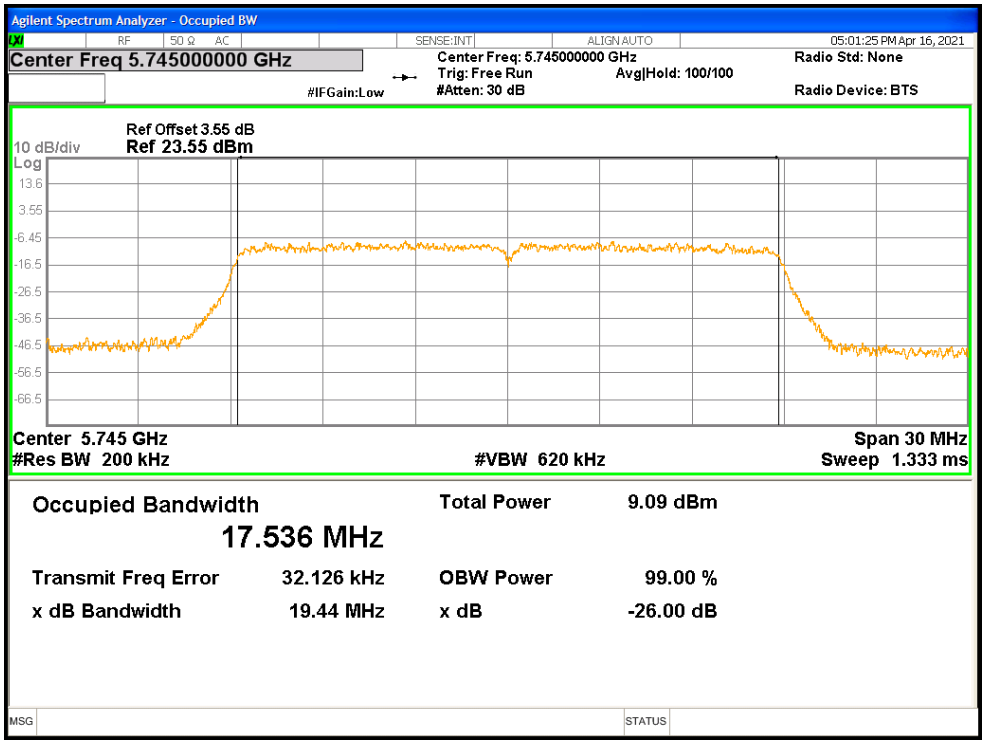
OBW NVNT n20 5240MHz Ant2



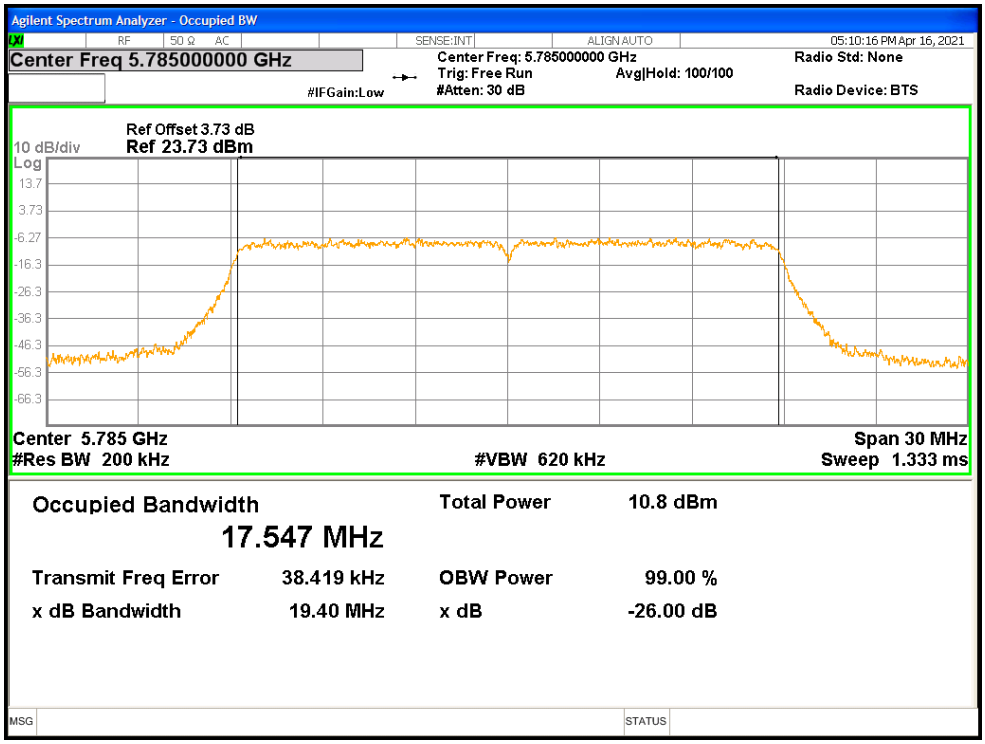
OBW NVNT n20 5745MHz Ant1



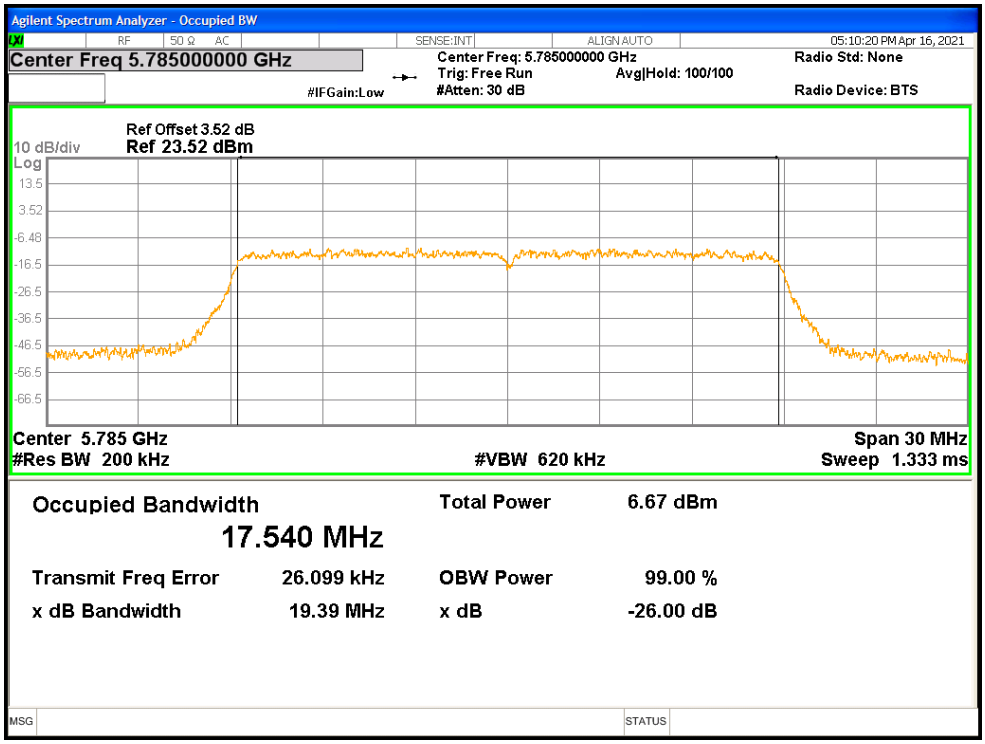
OBW NVNT n20 5745MHz Ant2



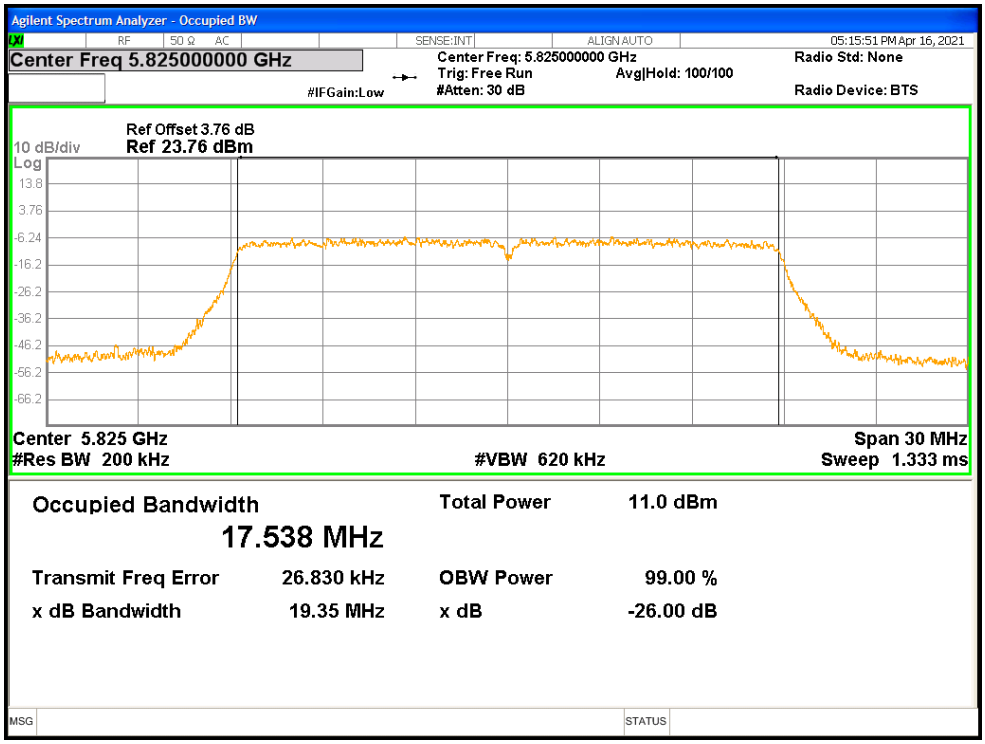
OBW NVNT n20 5785MHz Ant1



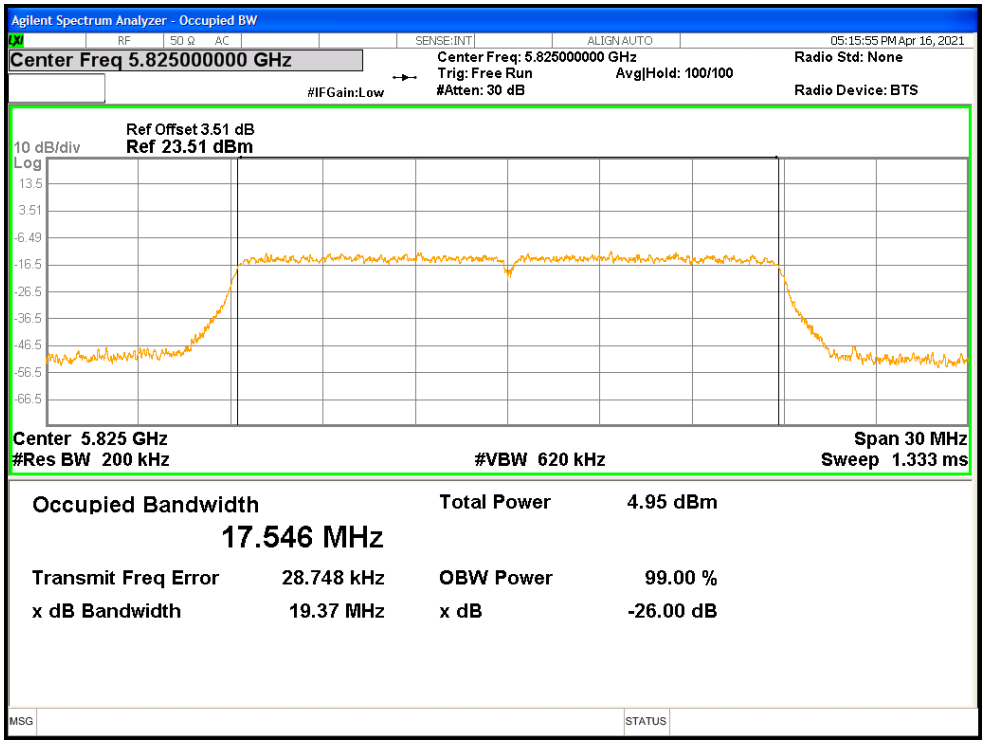
OBW NVNT n20 5785MHz Ant2



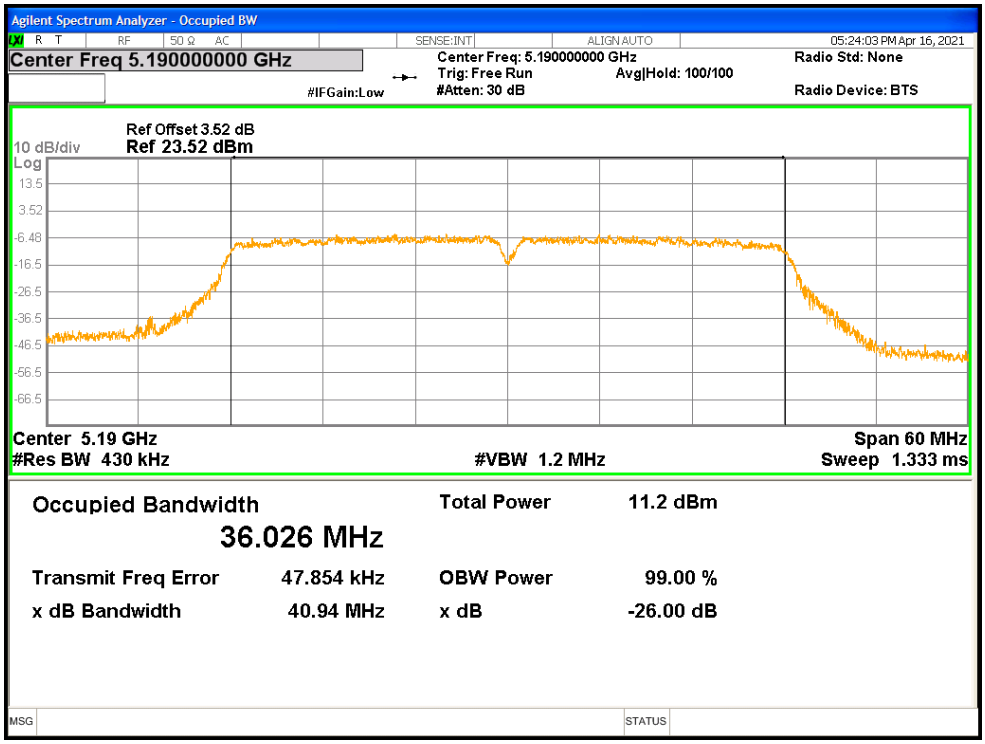
OBW NVNT n20 5825MHz Ant1



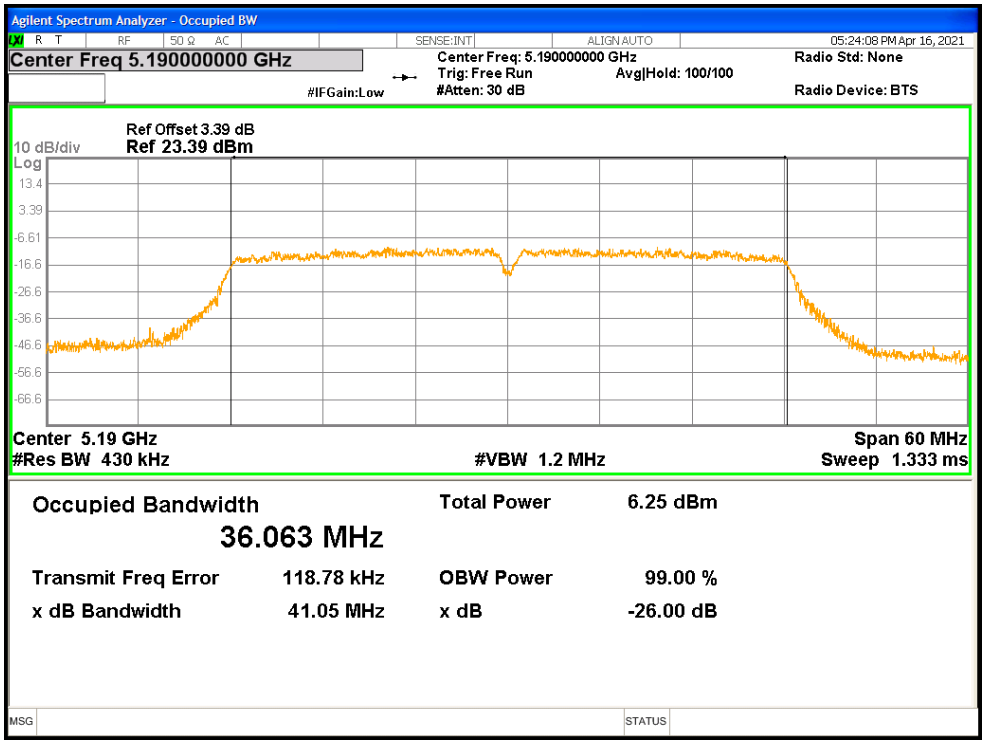
OBW NVNT n20 5825MHz Ant2



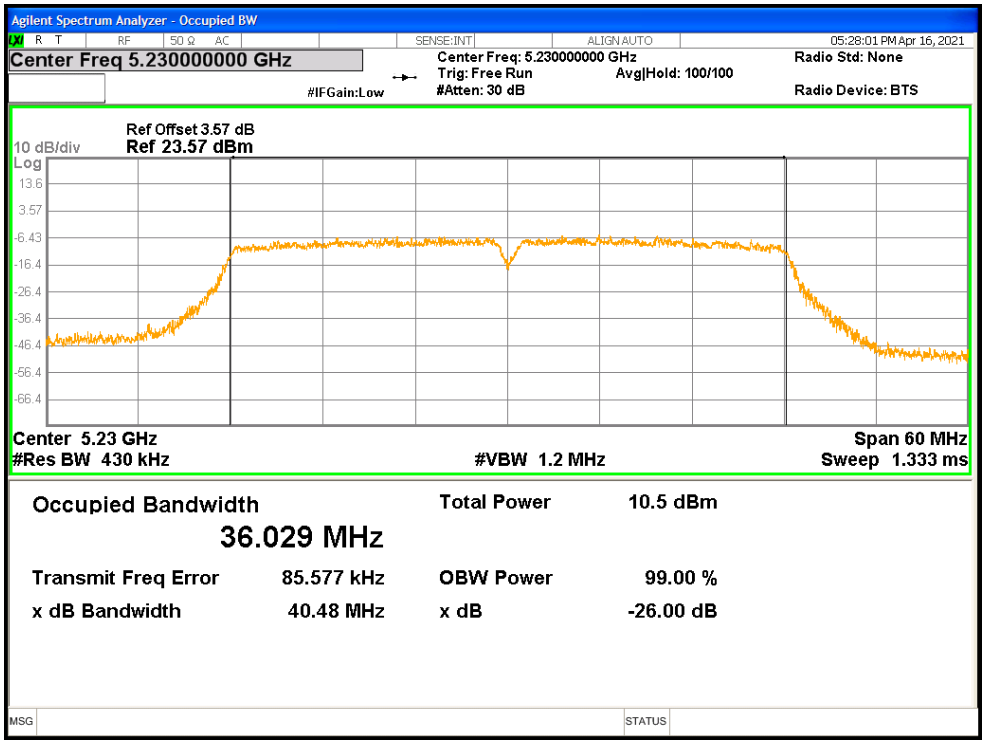
OBW NVNT n40 5190MHz Ant1



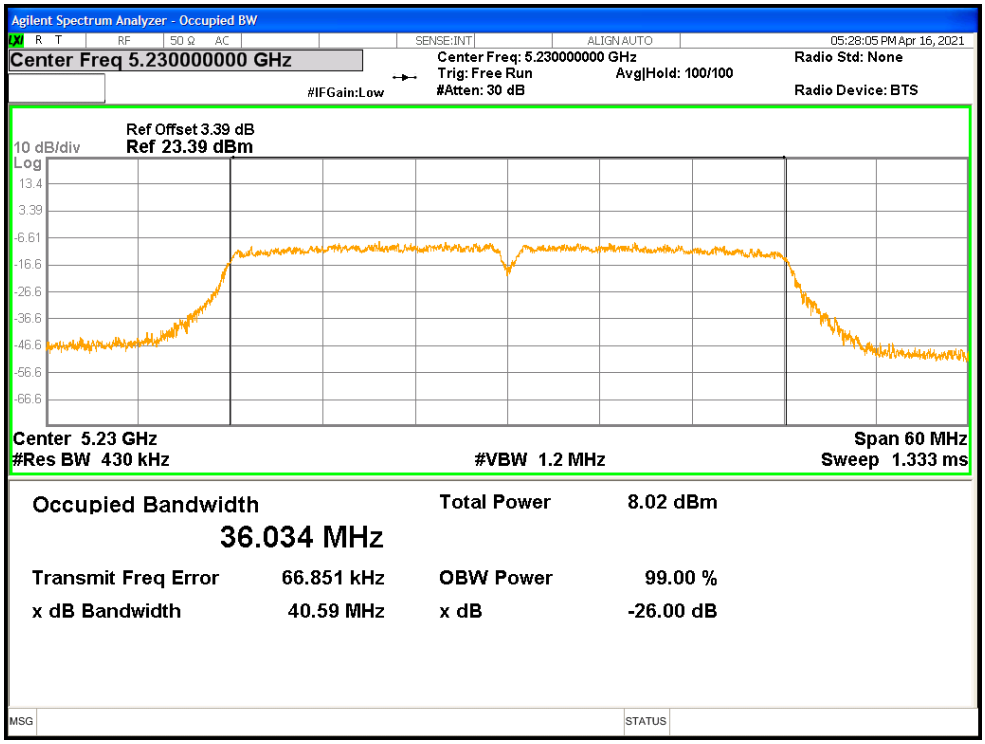
OBW NVNT n40 5190MHz Ant2



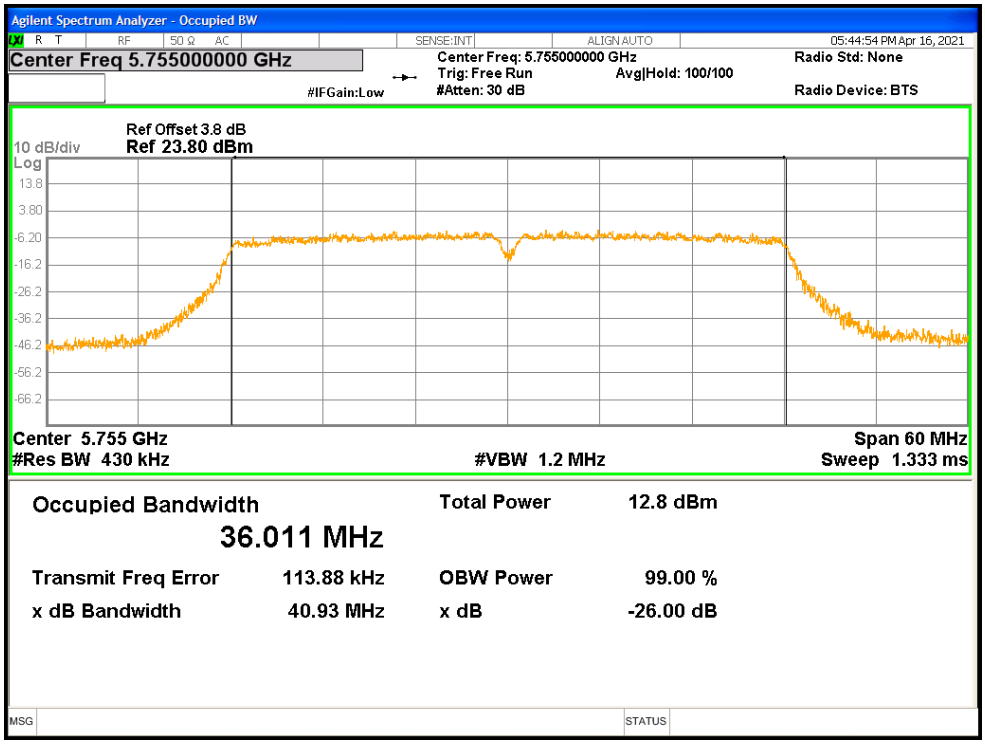
OBW NVNT n40 5230MHz Ant1



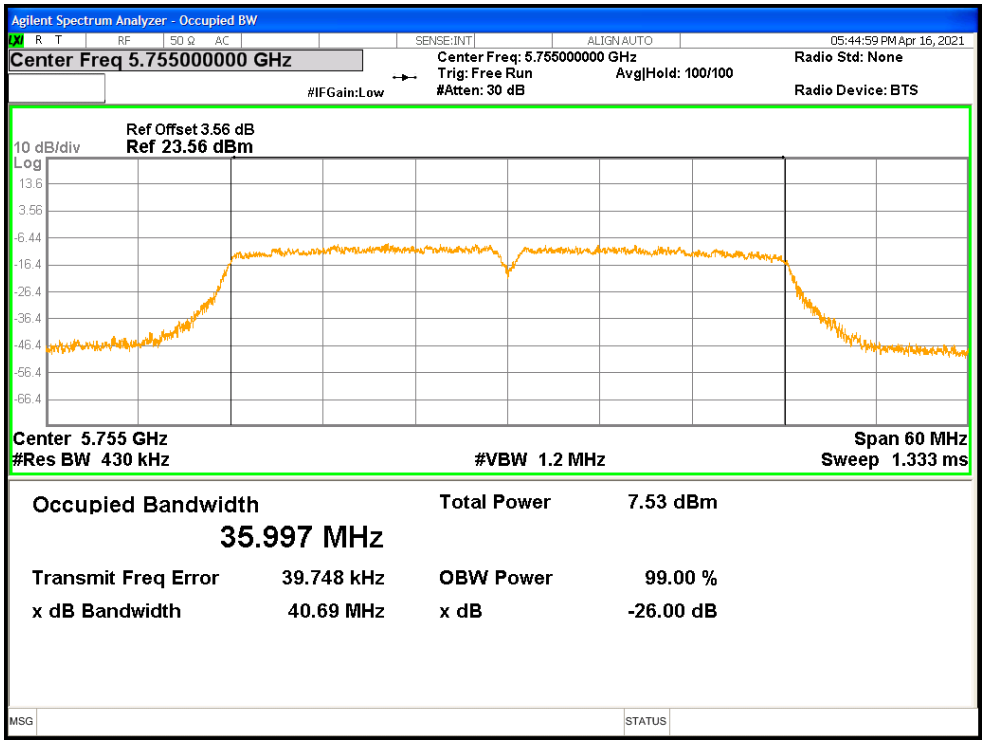
OBW NVNT n40 5230MHz Ant2



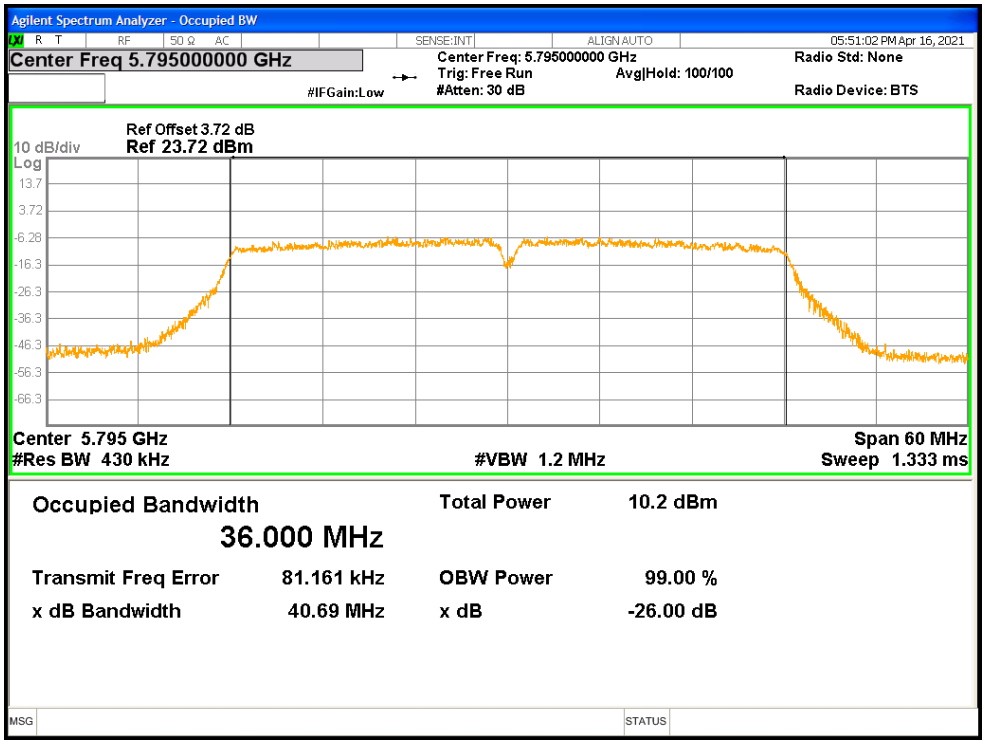
OBW NVNT n40 5755MHz Ant1



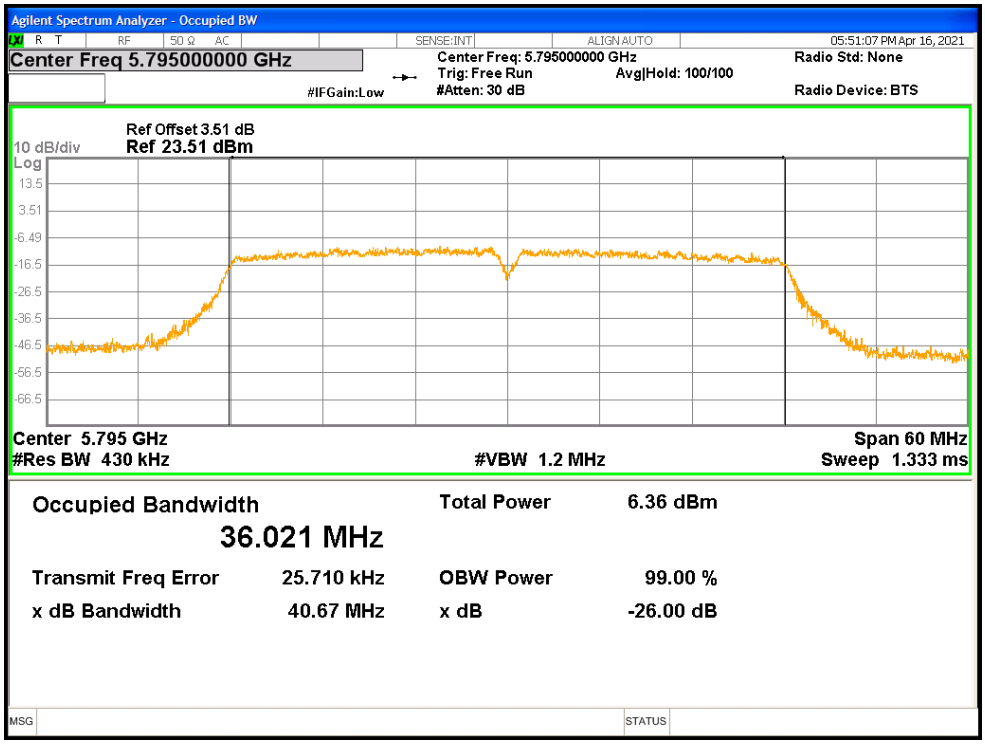
OBW NVNT n40 5755MHz Ant2



OBW NVNT n40 5795MHz Ant1



OBW NVNT n40 5795MHz Ant2


Agilent Spectrum Analyzer - Occupied BW
SENSE:INT
ALIGN AUTO
05:51:07 PM Apr 16, 2021
Center Freq 5.795000000 GHz
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Ref Offset 3.51 dB
10 dB/div
Ref 23.51 dBm
Log
13.5
3.51
-6.49
-16.5
-26.5
-36.5
-46.5
-56.5
-66.5
Center 5.795 GHz
#Res BW 430 kHz
#VBW 1.2 MHz
Span 60 MHz
Sweep 1.333 ms
Occupied Bandwidth
36.021 MHz
Total Power 6.36 dBm
Transmit Freq Error 25.710 kHz
OBW Power 99.00 %
x dB Bandwidth 40.67 MHz
x dB -26.00 dB
MSG
STATUS