

FCC Test Report

ANNEX 2 5G WIFI

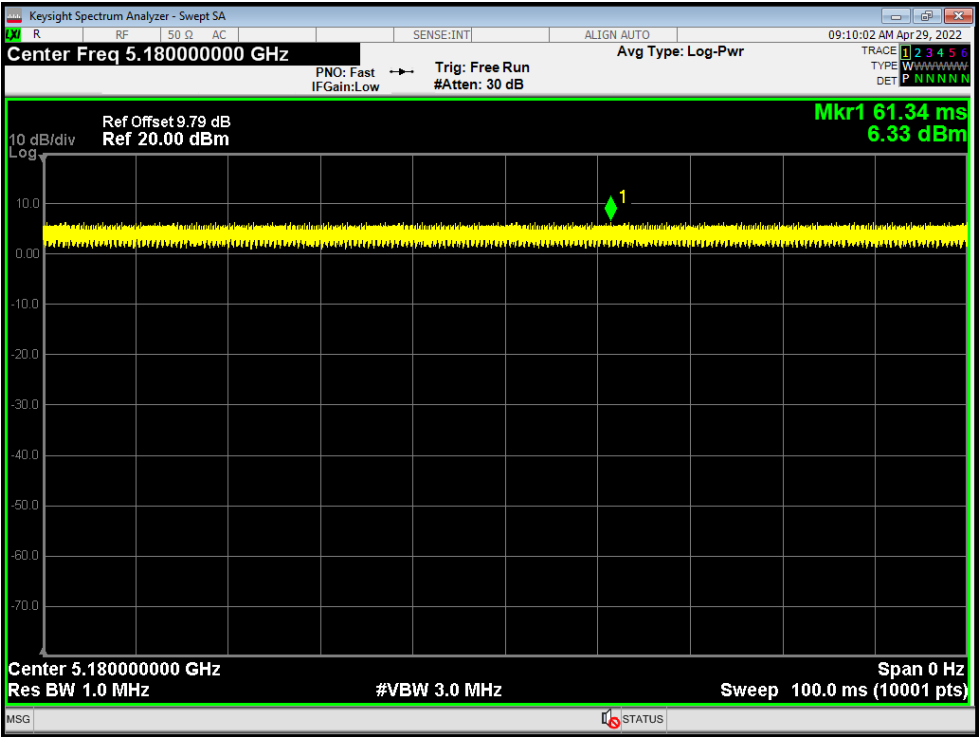
FCC ID: 2A8NR-Z91

Applicant:	ShenZhen ZCS Technology CO.,LTD
Address:	202C, G2 Building, TCL World E City, Zhongshan Yuan Road, Nanshan District, Shenzhen, China.
Manufacturer:	ShenZhen ZCS Technology CO.,LTD
Address:	202C, G2 Building, TCL World E City, Zhongshan Yuan Road, Nanshan District, Shenzhen, China.
EUT:	Smart Pos
Trade Mark:	ZCS
Model Number:	Z91 Z90, Z92, Z93, Z100, Z70
Date of Receipt:	Apr. 15, 2022
Test Date:	Apr. 15, 2022 – May. 05, 2022
Date of Report:	Sep. 05, 2022
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
Applicable Standards:	FCC PART 15 C 15.407 ANSI C63.10:2013
Test Result:	Pass

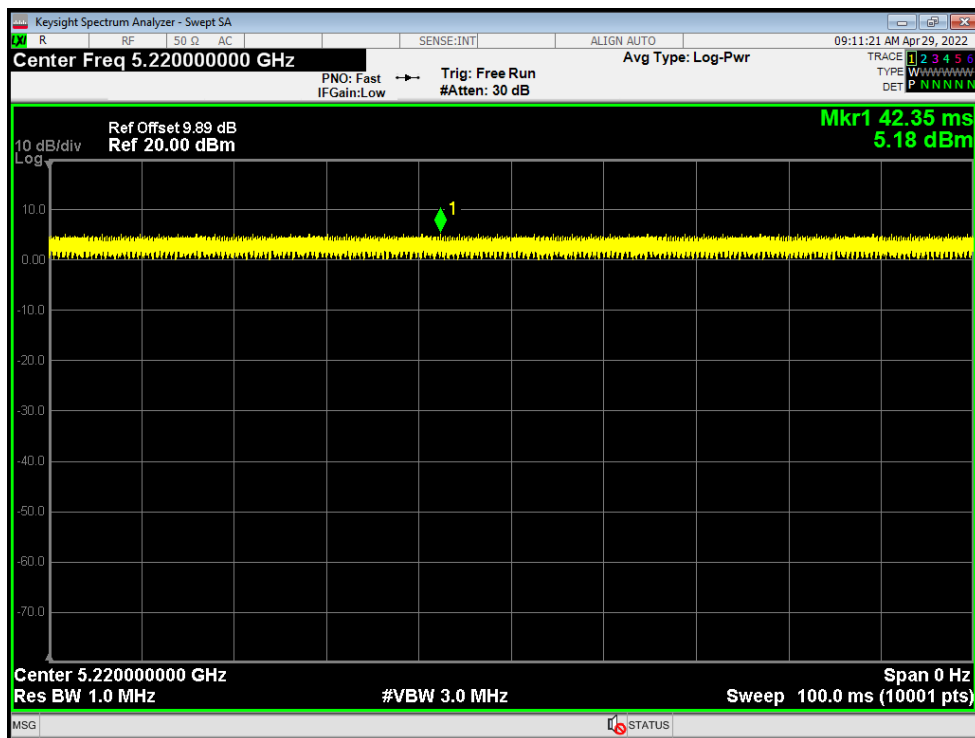
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	100	0
NVNT	a	5220	Ant1	100	0
NVNT	a	5240	Ant1	100	0
NVNT	ac20	5180	Ant1	100	0
NVNT	ac20	5220	Ant1	100	0
NVNT	ac20	5240	Ant1	100	0
NVNT	ac40	5190	Ant1	100	0
NVNT	ac40	5230	Ant1	100	0
NVNT	ac80	5210	Ant1	100	0
NVNT	n20	5180	Ant1	100	0
NVNT	n20	5220	Ant1	100	0
NVNT	n20	5240	Ant1	100	0
NVNT	n40	5190	Ant1	100	0
NVNT	n40	5230	Ant1	100	0

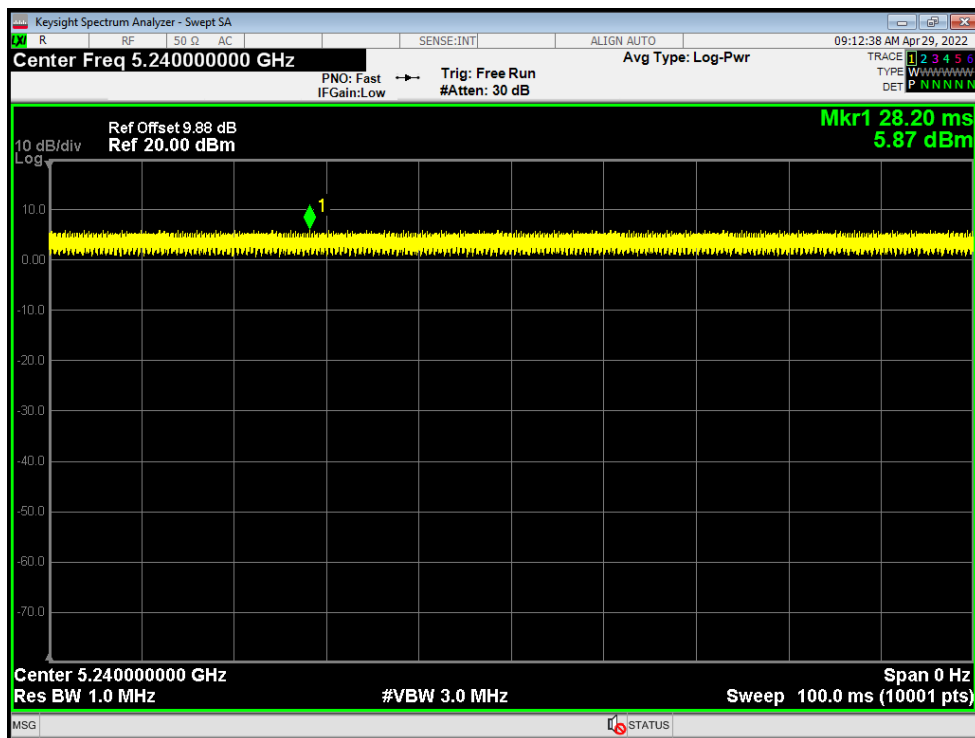
Duty Cycle NVNT a 5180MHz Ant1



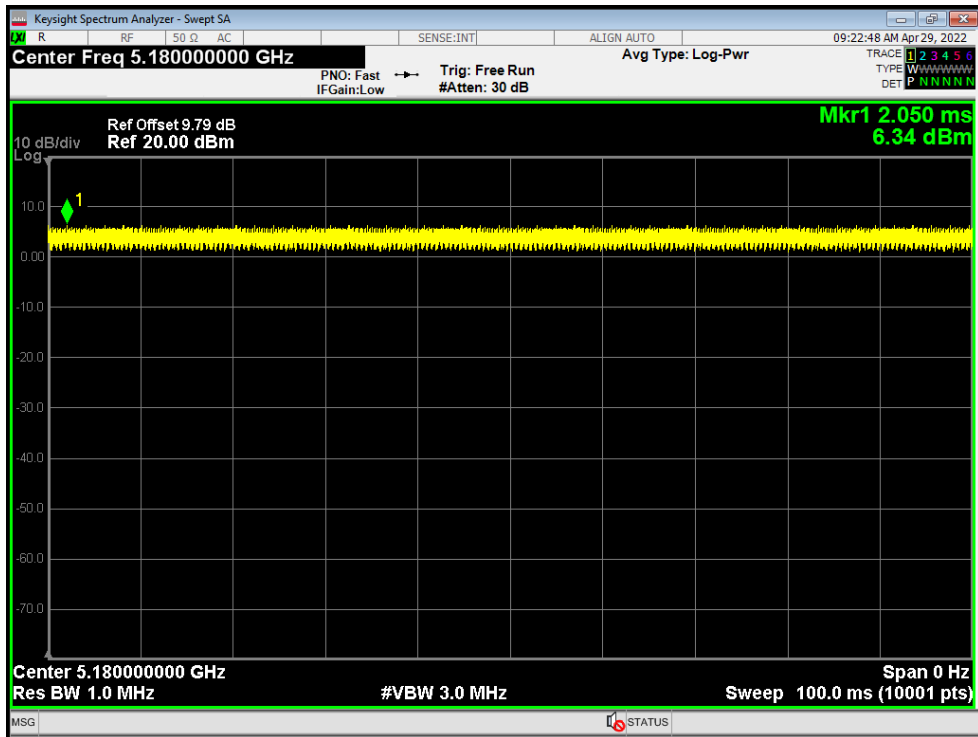
Duty Cycle NVNT a 5220MHz Ant1



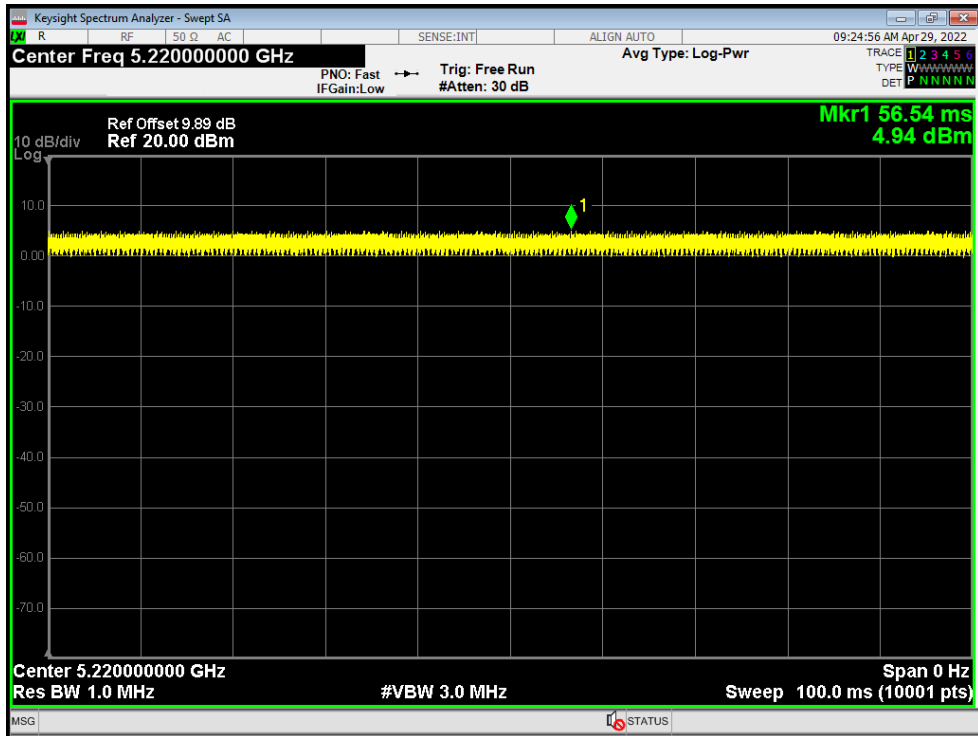
Duty Cycle NVNT a 5240MHz Ant1



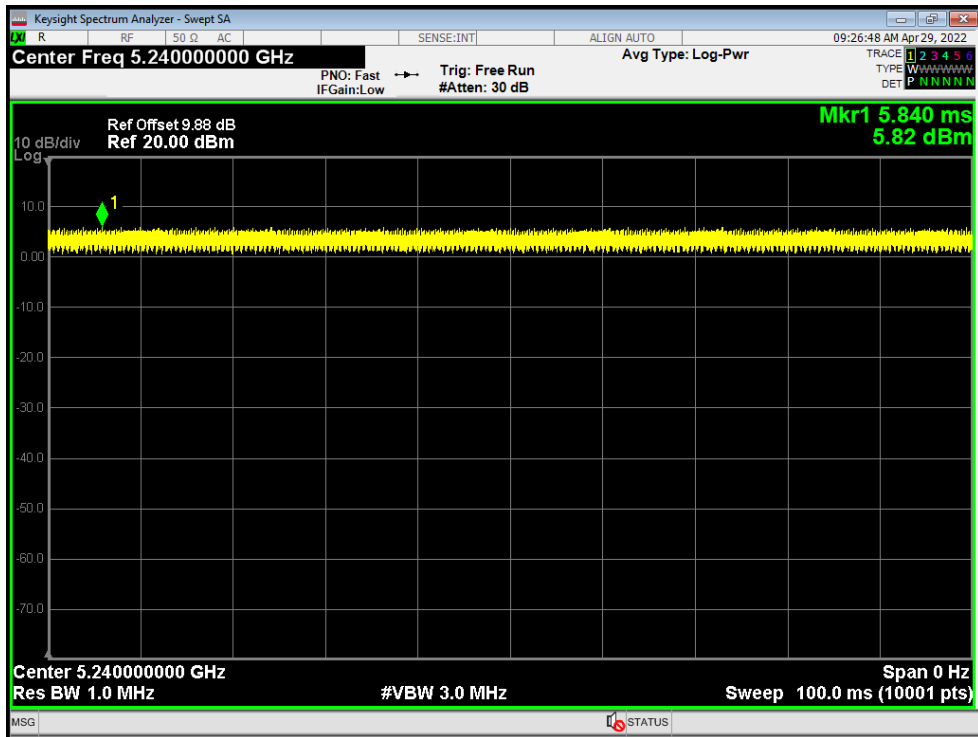
Duty Cycle NVNT ac20 5180MHz Ant1



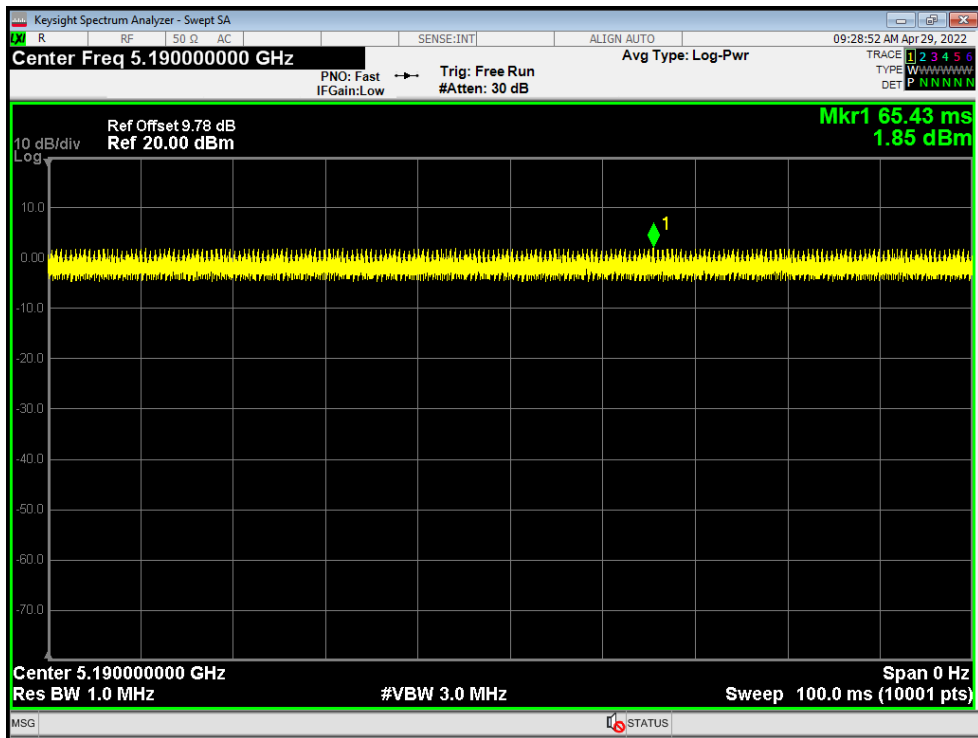
Duty Cycle NVNT ac20 5220MHz Ant1



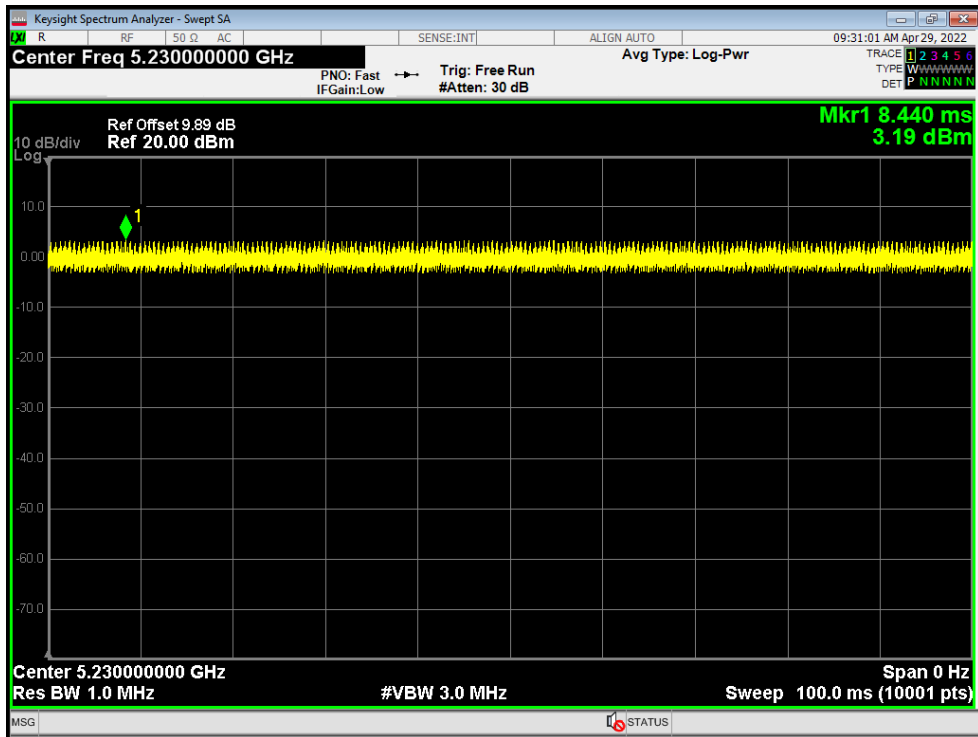
Duty Cycle NVNT ac20 5240MHz Ant1



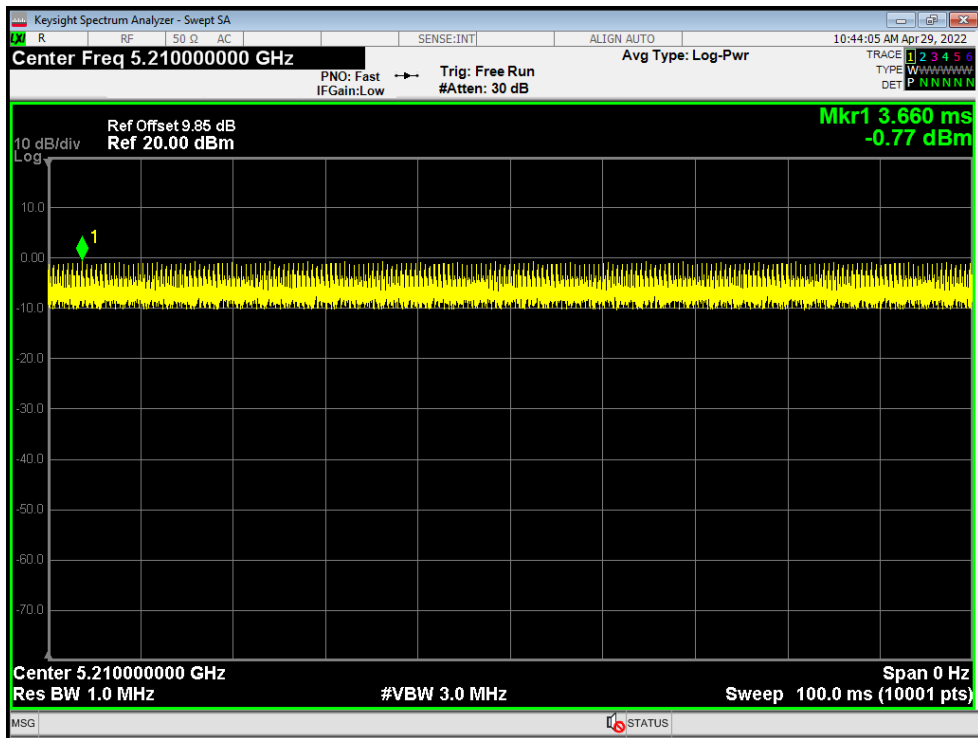
Duty Cycle NVNT ac40 5190MHz Ant1



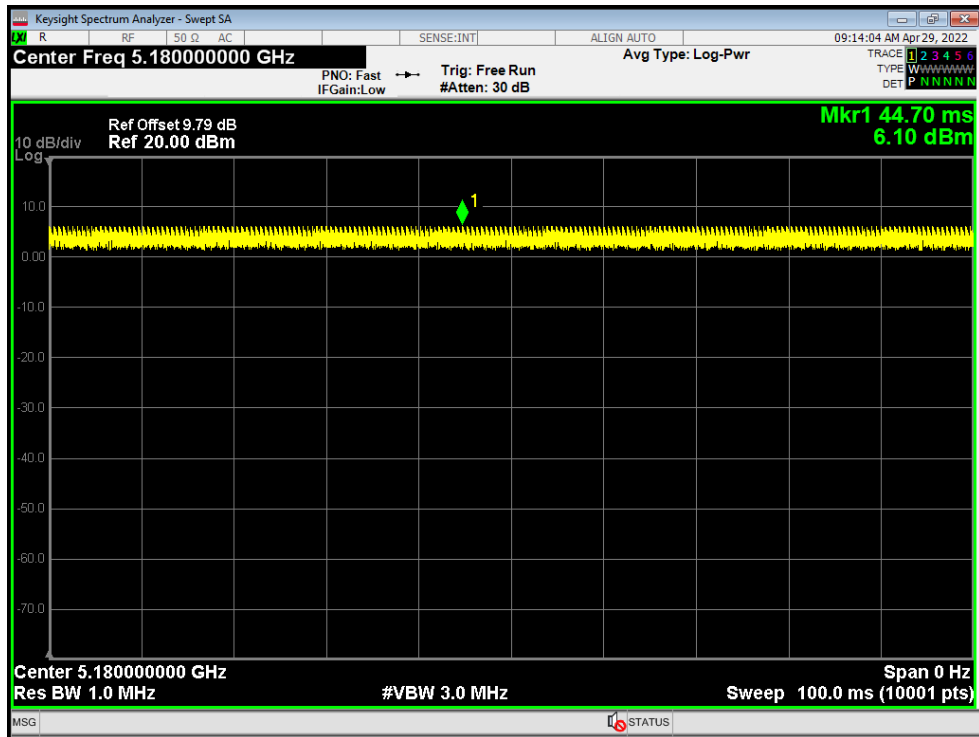
Duty Cycle NVNT ac40 5230MHz Ant1



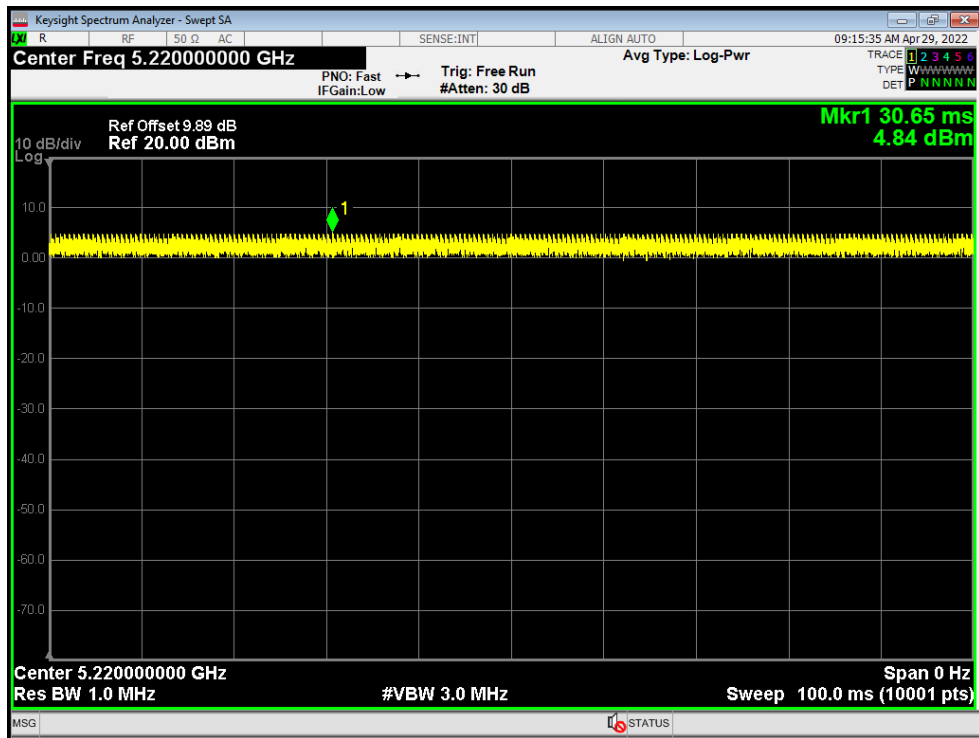
Duty Cycle NVNT ac80 5210MHz Ant1



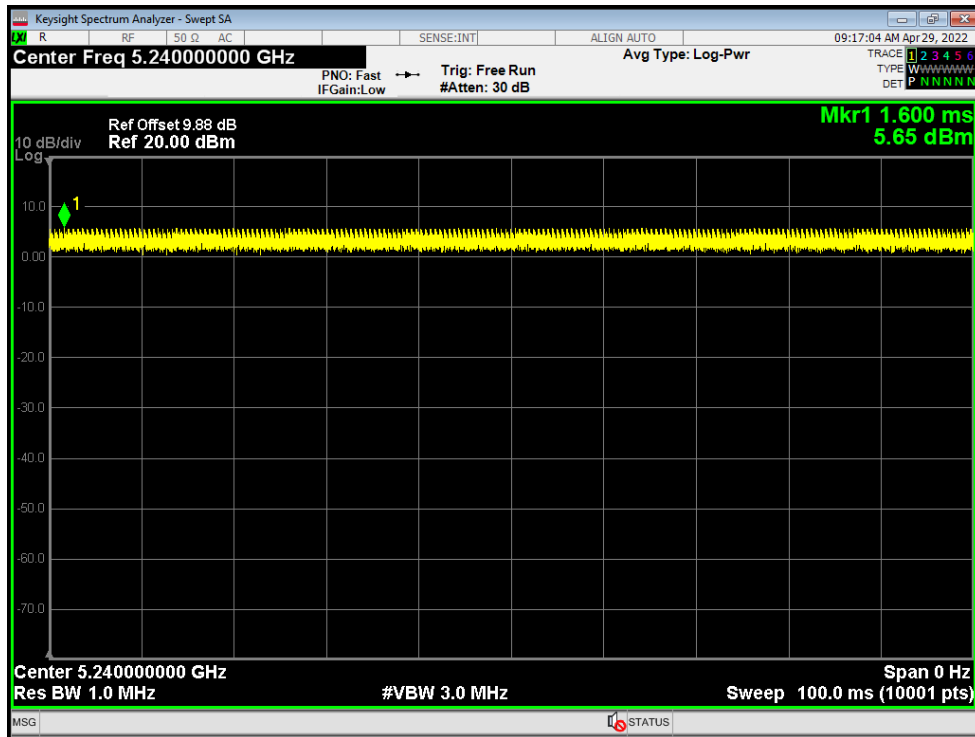
Duty Cycle NVNT n20 5180MHz Ant1



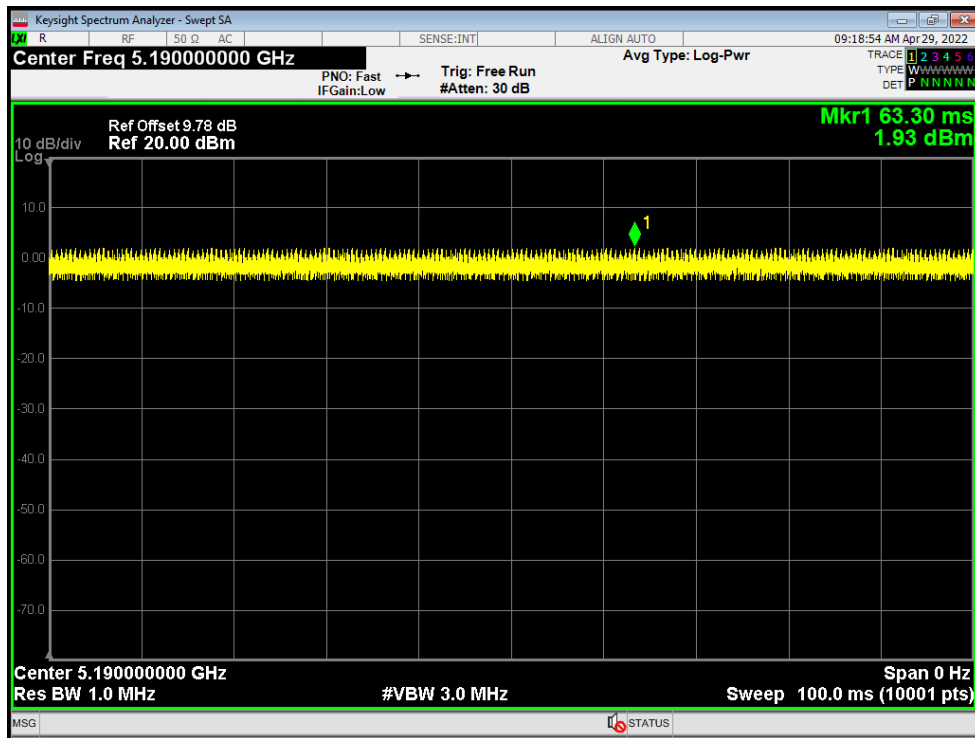
Duty Cycle NVNT n20 5220MHz Ant1



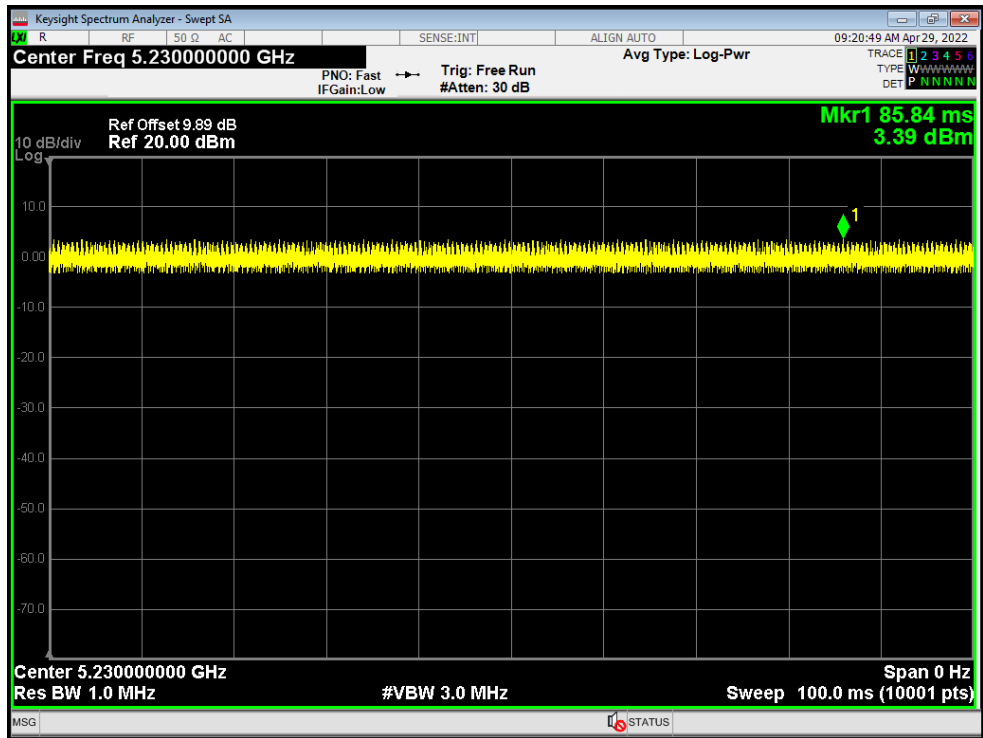
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



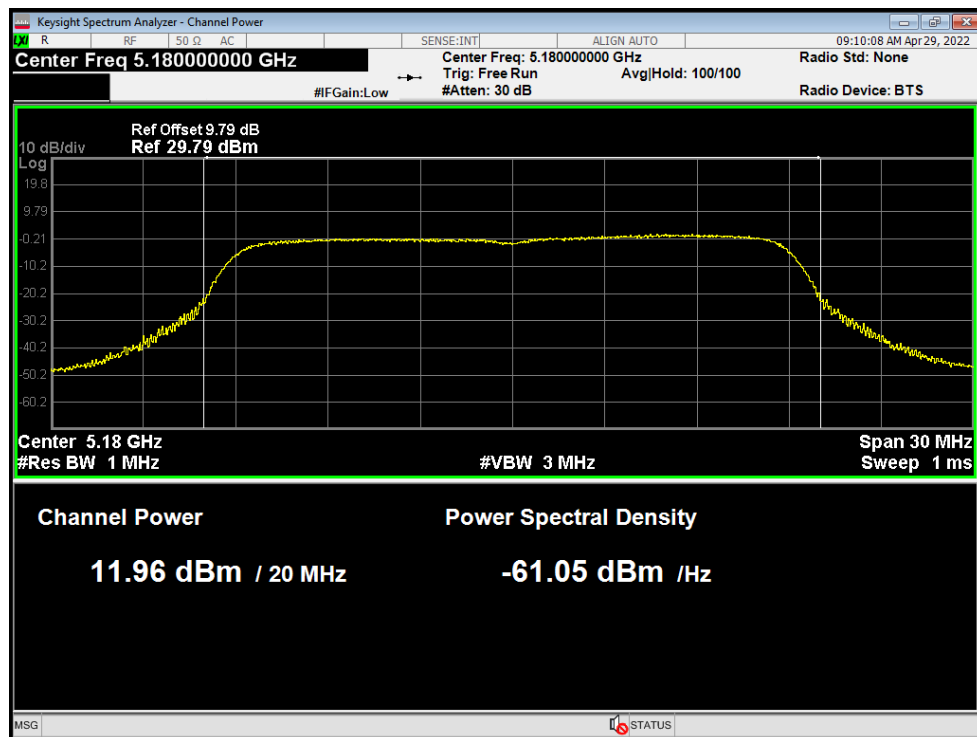
Duty Cycle NVNT n40 5230MHz Ant1



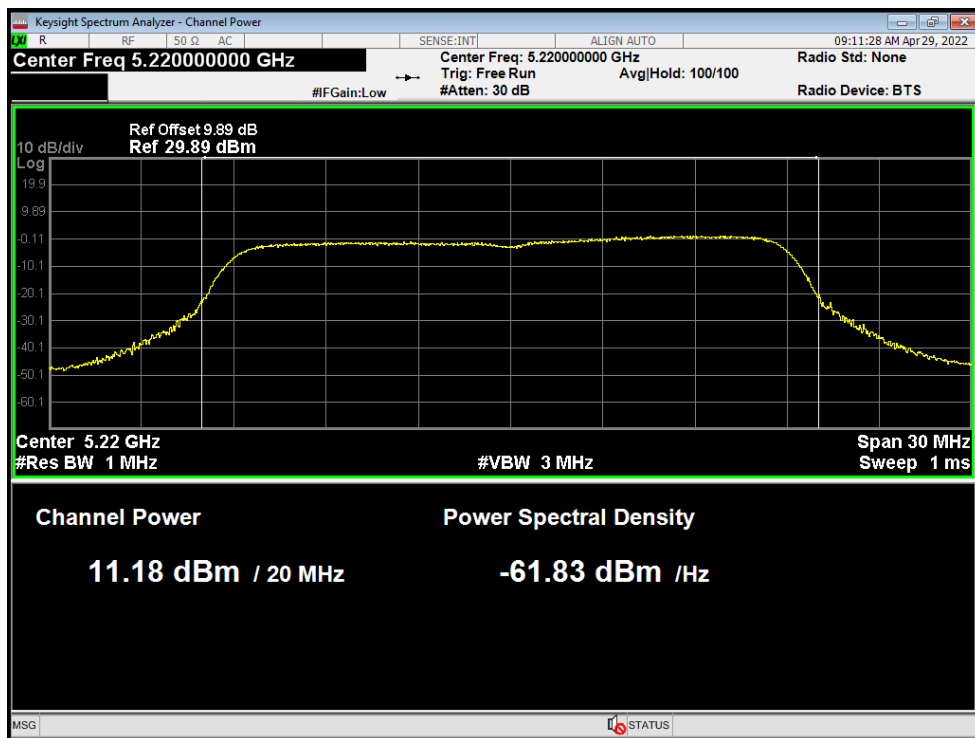
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.96	0	11.96	24	Pass
NVNT	a	5220	Ant1	11.18	0	11.18	24	Pass
NVNT	a	5240	Ant1	11.84	0	11.84	24	Pass
NVNT	ac20	5180	Ant1	11.81	0	11.81	24	Pass
NVNT	ac20	5220	Ant1	11.05	0	11.05	24	Pass
NVNT	ac20	5240	Ant1	11.75	0	11.75	24	Pass
NVNT	ac40	5190	Ant1	11.79	0	11.79	24	Pass
NVNT	ac40	5230	Ant1	11.90	0	11.90	24	Pass
NVNT	ac80	5210	Ant1	11.95	0	11.95	24	Pass
NVNT	n20	5180	Ant1	11.95	0	11.95	24	Pass
NVNT	n20	5220	Ant1	11.12	0	11.12	24	Pass
NVNT	n20	5240	Ant1	11.81	0	11.81	24	Pass
NVNT	n40	5190	Ant1	11.91	0	11.91	24	Pass
NVNT	n40	5230	Ant1	11.97	0	11.97	24	Pass

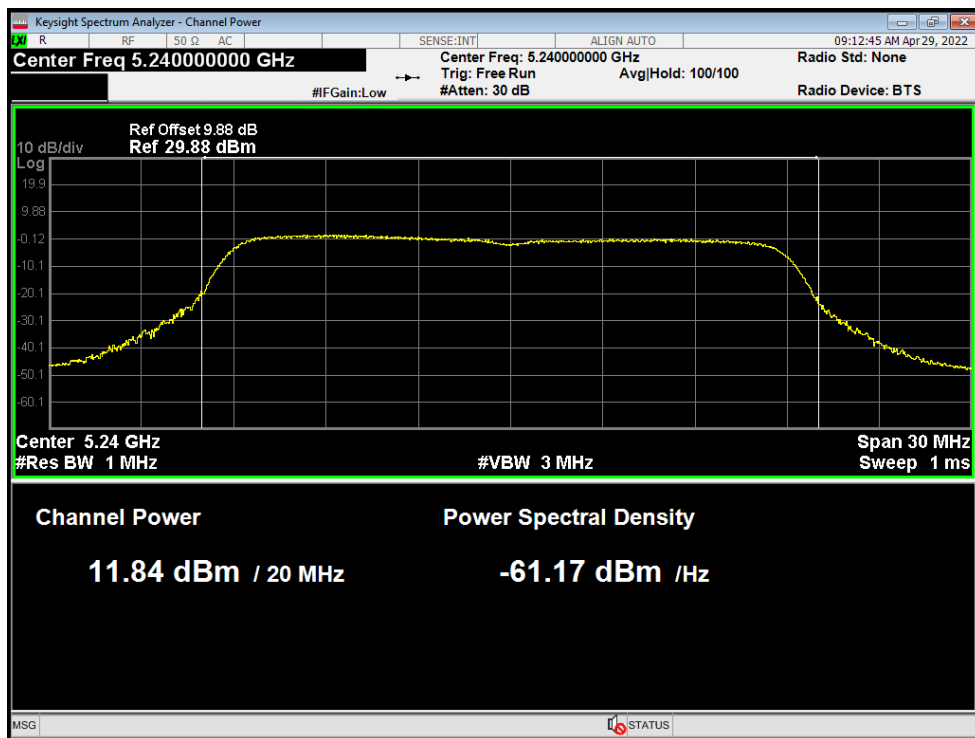
Power NVNT a 5180MHz Ant1



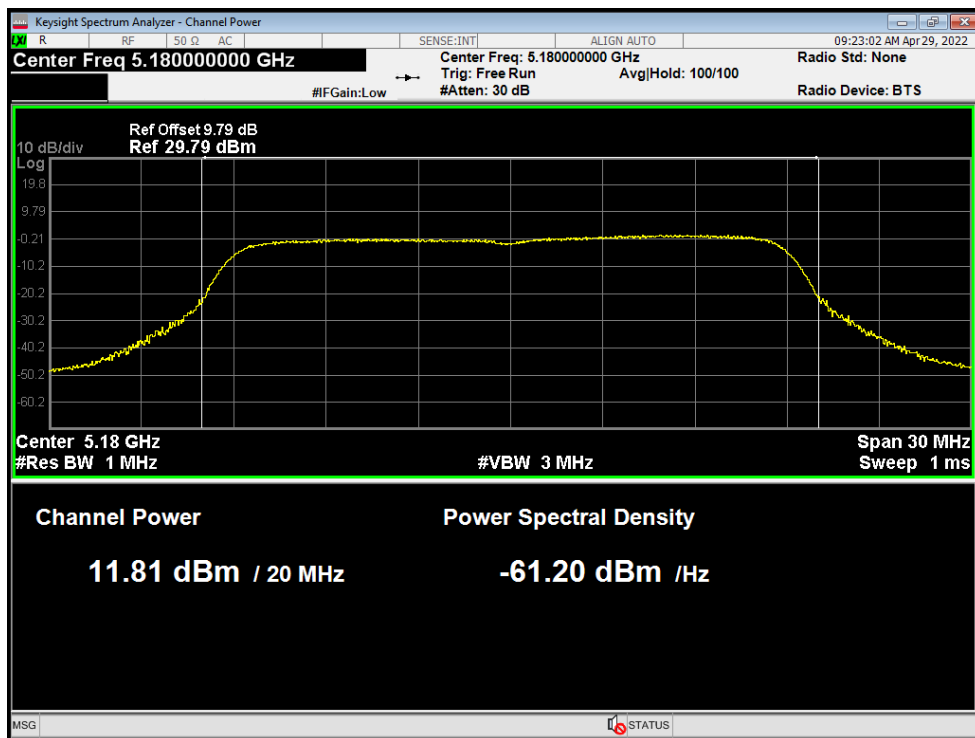
Power NVNT a 5220MHz Ant1



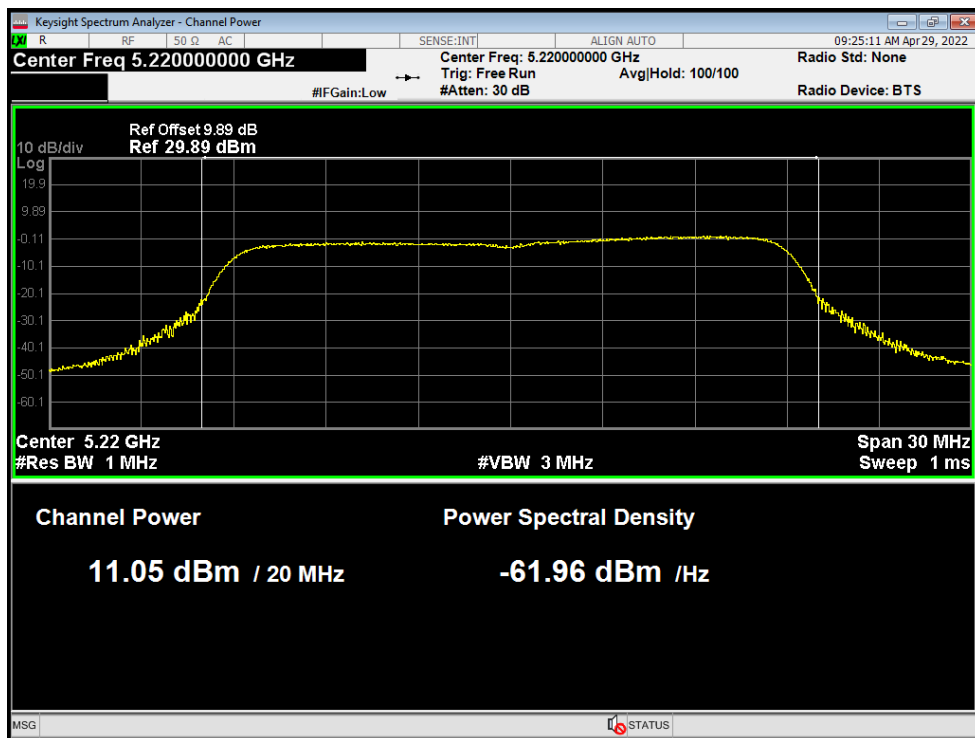
Power NVNT a 5240MHz Ant1



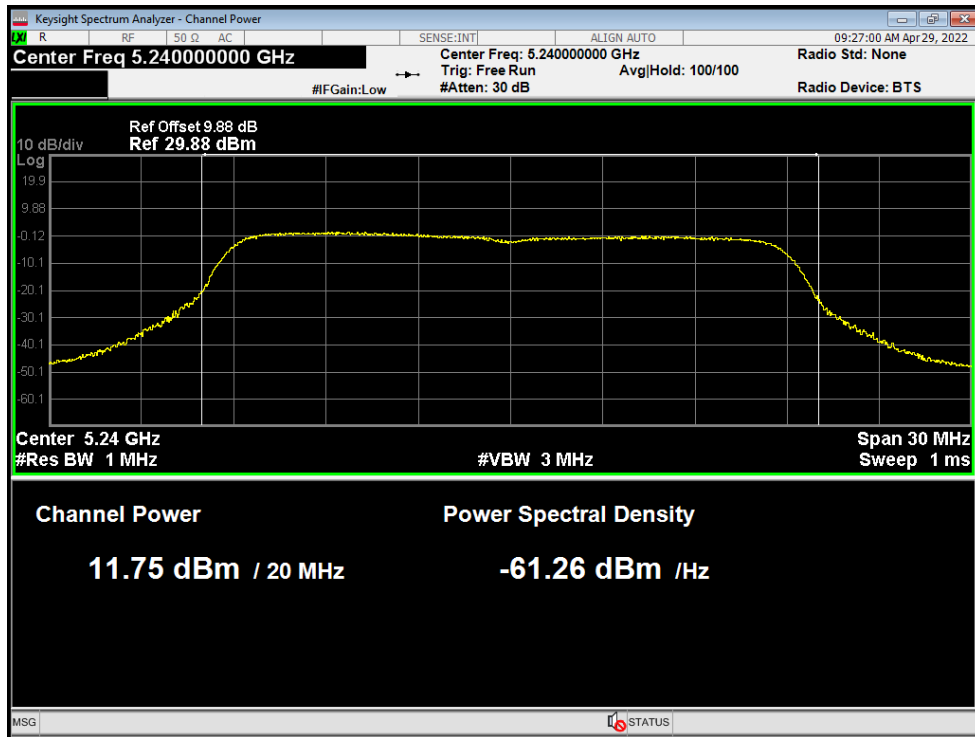
Power NVNT ac20 5180MHz Ant1



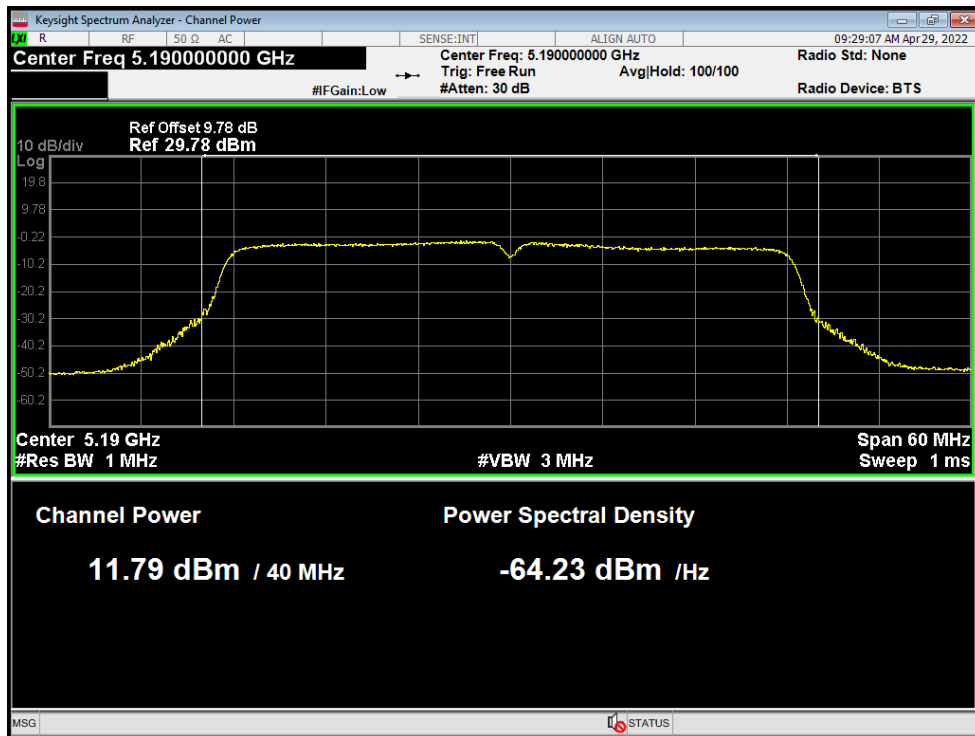
Power NVNT ac20 5220MHz Ant1



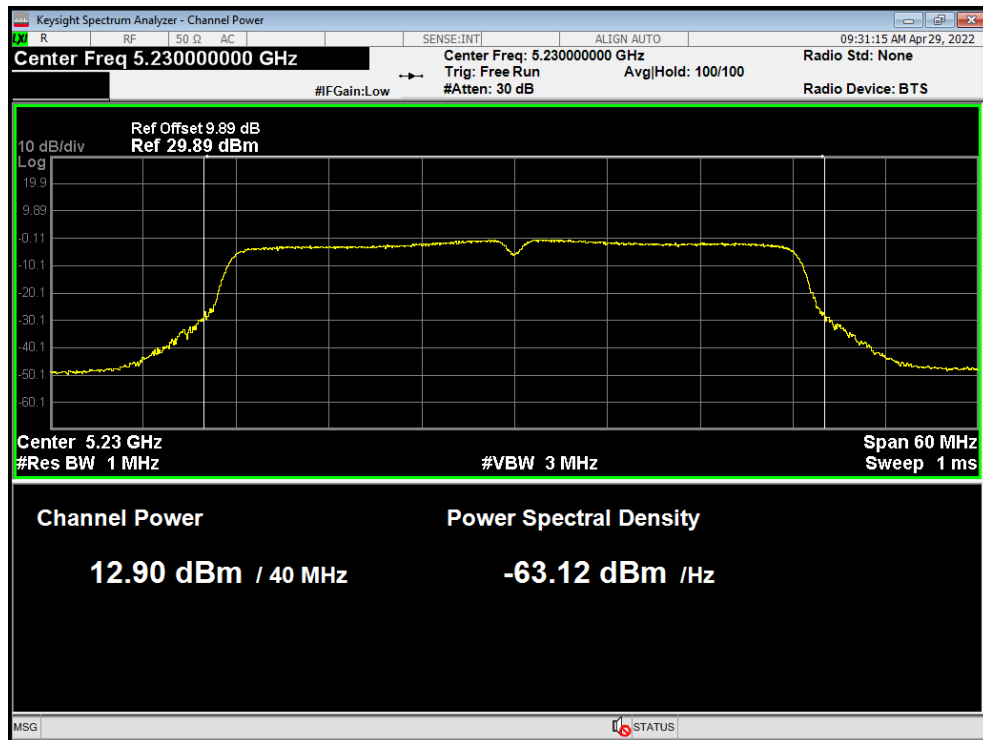
Power NVNT ac20 5240MHz Ant1



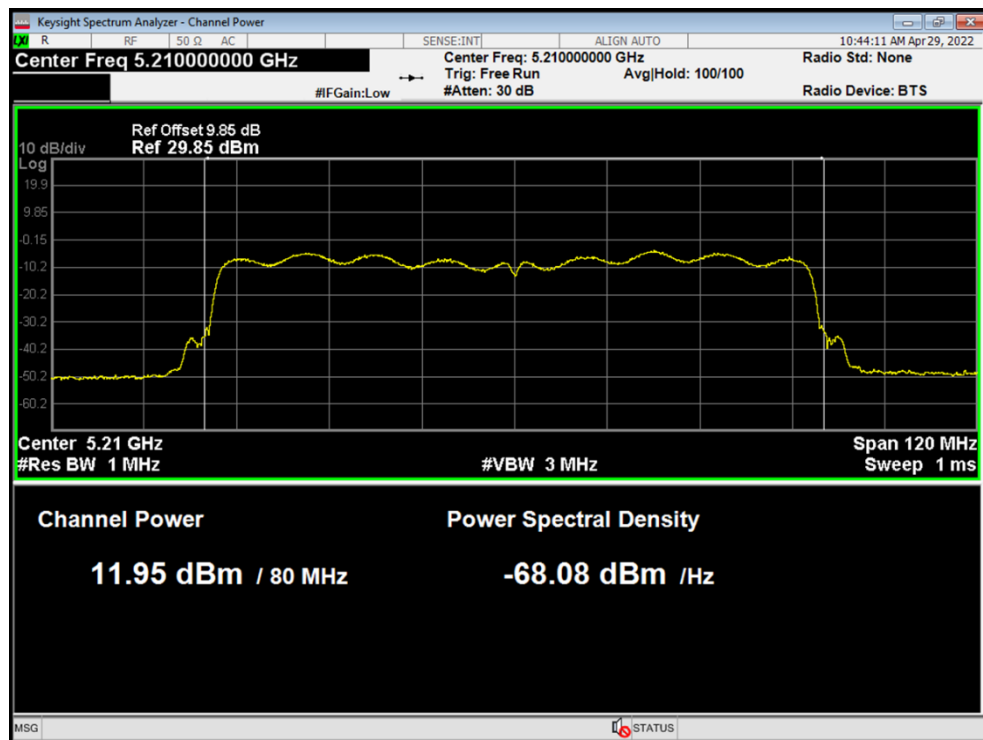
Power NVNT ac40 5190MHz Ant1



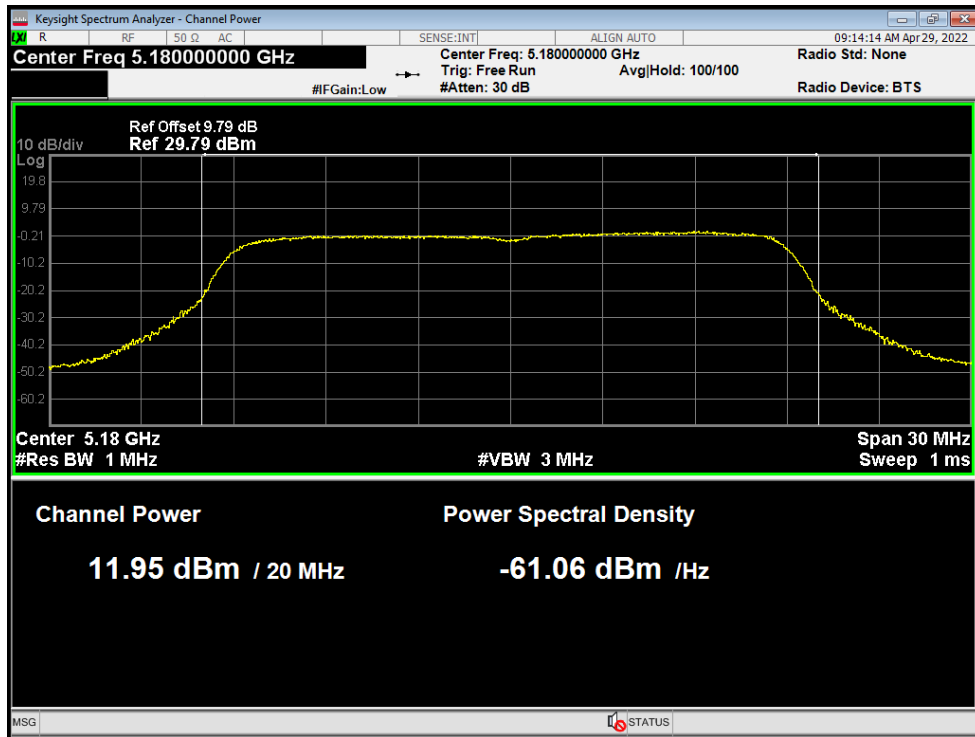
Power NVNT ac40 5230MHz Ant1



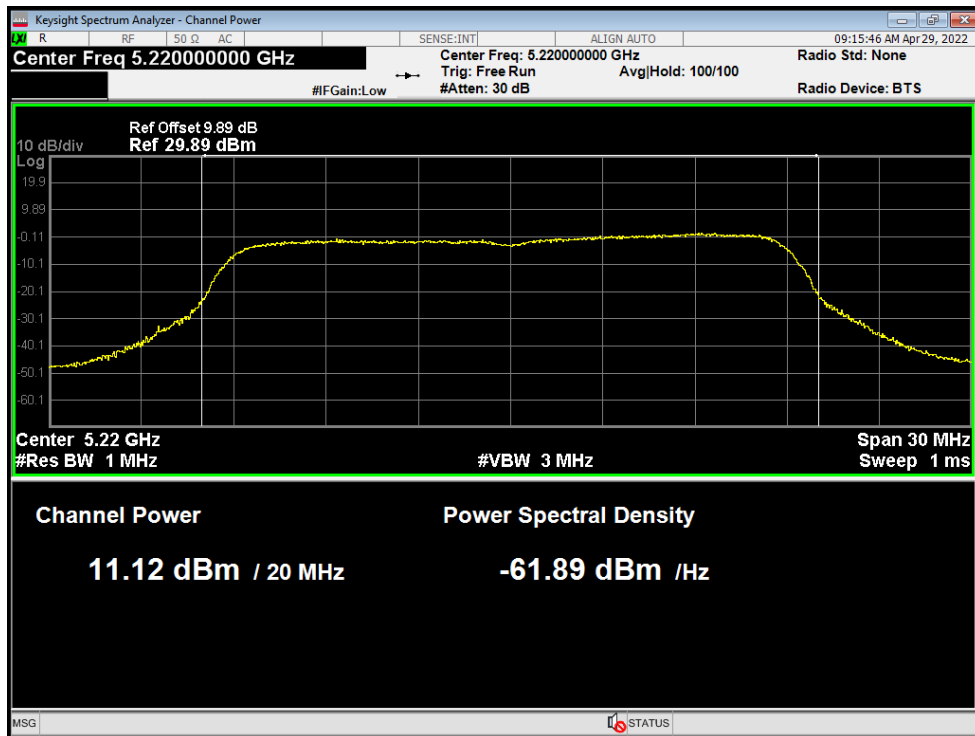
Power NVNT ac80 5210MHz Ant1



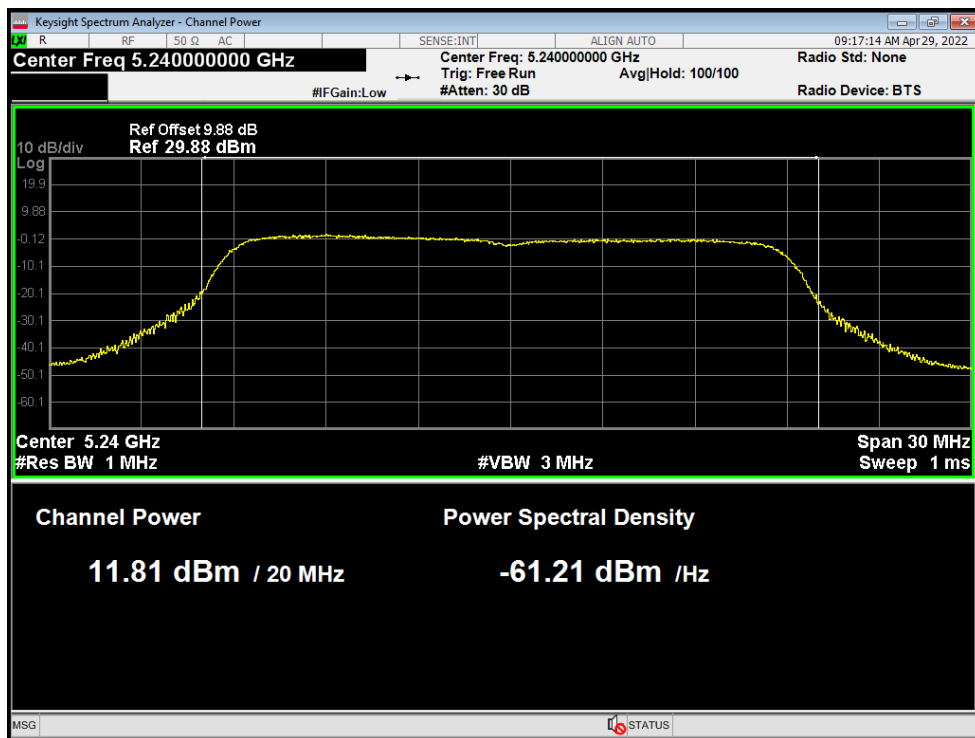
Power NVNT n20 5180MHz Ant1



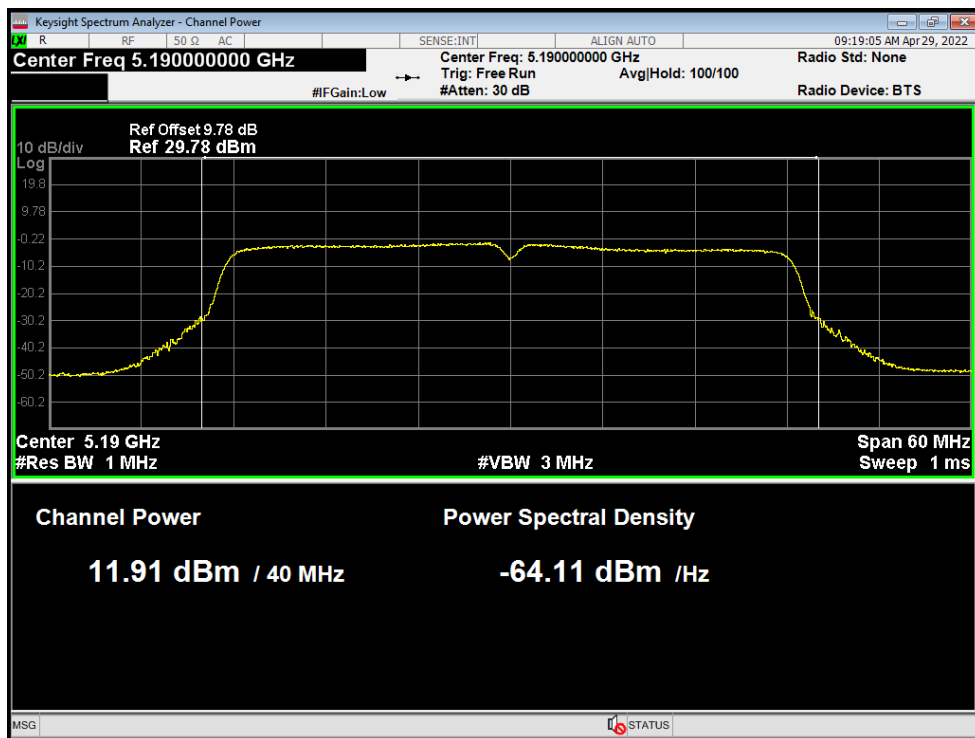
Power NVNT n20 5220MHz Ant1



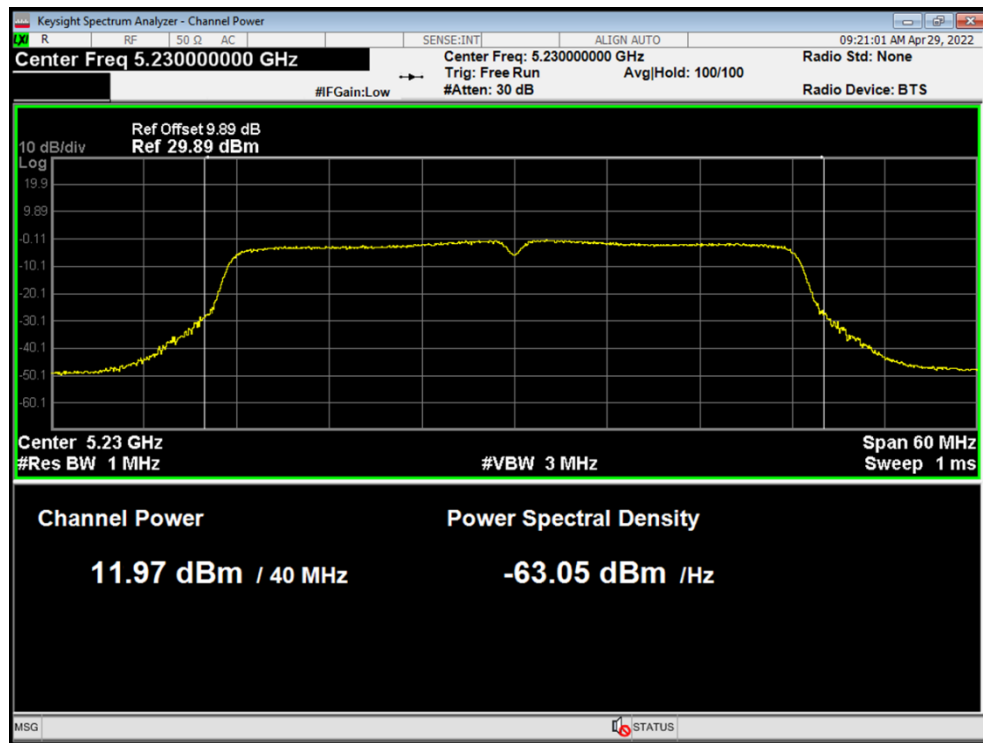
Power NVNT n20 5240MHz Ant1



Power NVNT n40 5190MHz Ant1



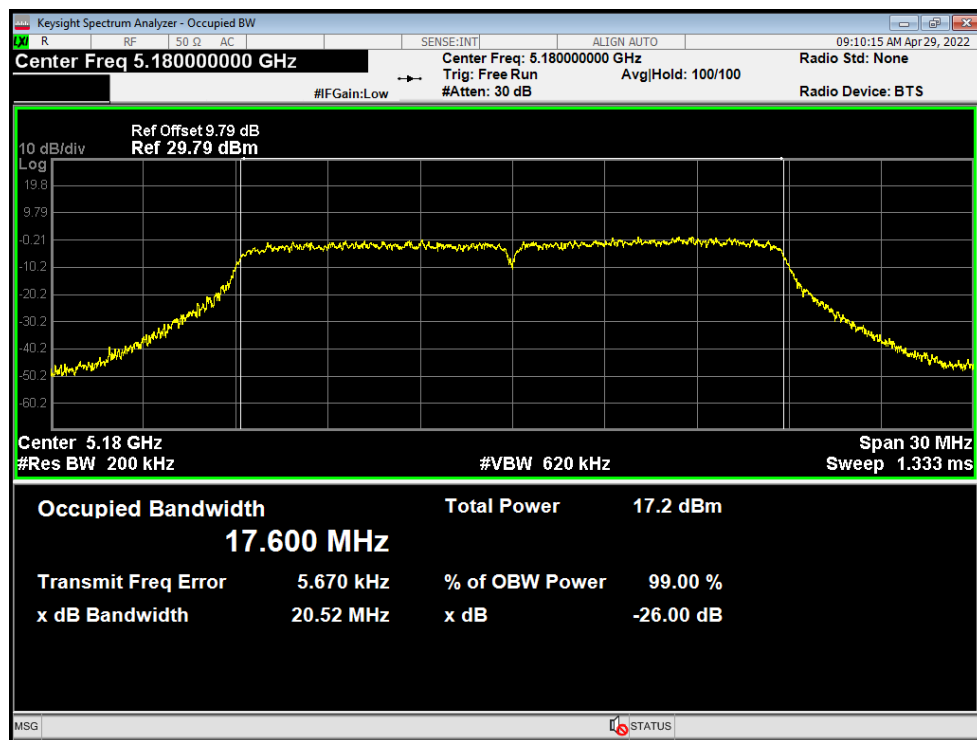
Power NVNT n40 5230MHz Ant1



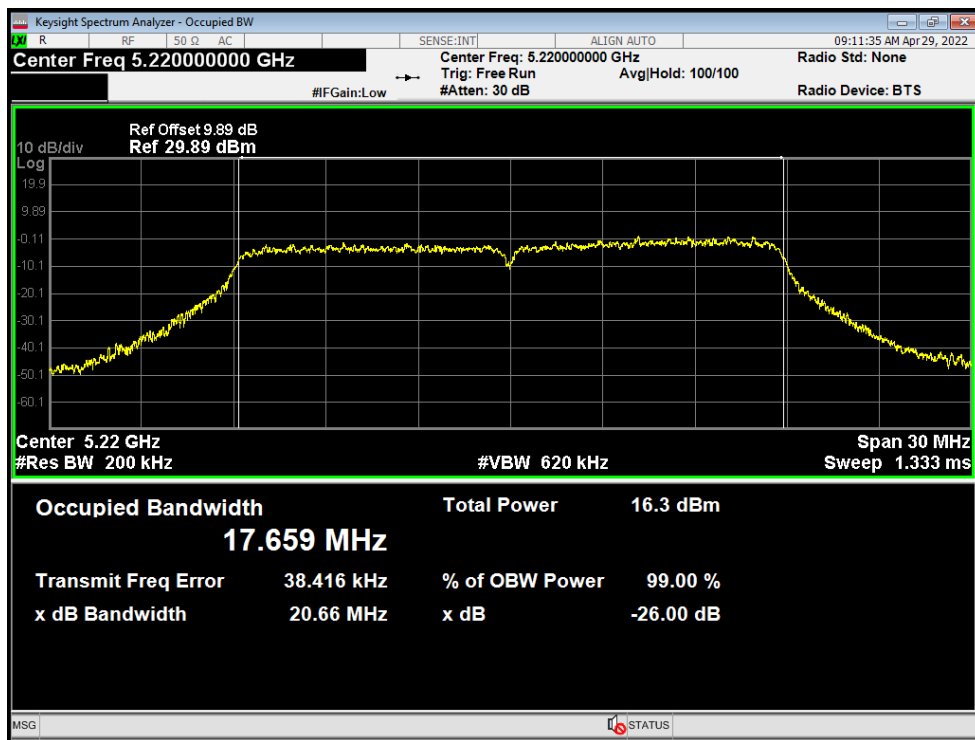
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	17.59960738
NVNT	a	5220	Ant1	17.65856566
NVNT	a	5240	Ant1	17.64359637
NVNT	ac20	5180	Ant1	17.60462469
NVNT	ac20	5220	Ant1	17.65218313
NVNT	ac20	5240	Ant1	17.63023792
NVNT	ac40	5190	Ant1	36.104461
NVNT	ac40	5230	Ant1	36.09399013
NVNT	ac80	5210	Ant1	75.33564278
NVNT	n20	5180	Ant1	17.60145805
NVNT	n20	5220	Ant1	17.63119527
NVNT	n20	5240	Ant1	17.61732111
NVNT	n40	5190	Ant1	36.13465513
NVNT	n40	5230	Ant1	36.06079744

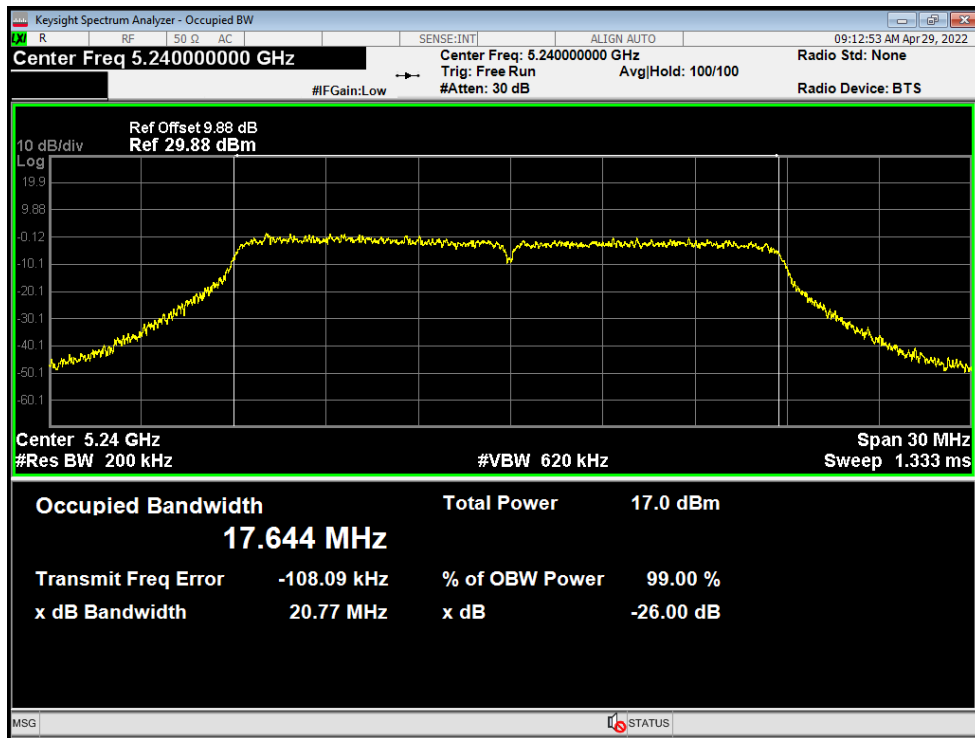
OBW NVNT a 5180MHz Ant1



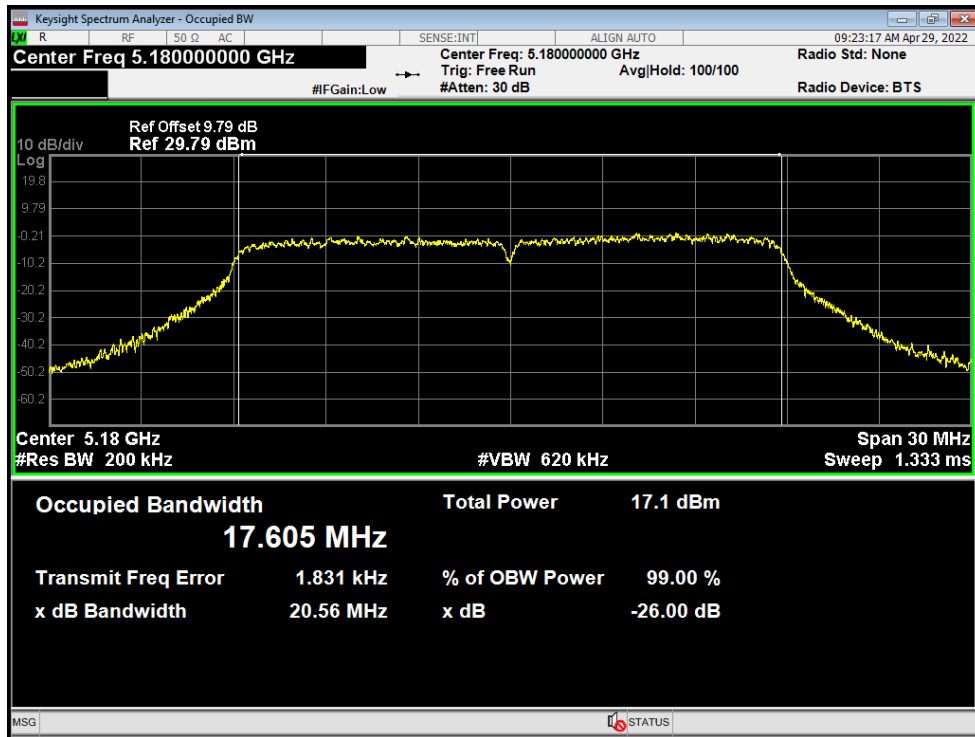
OBW NVNT a 5220MHz Ant1



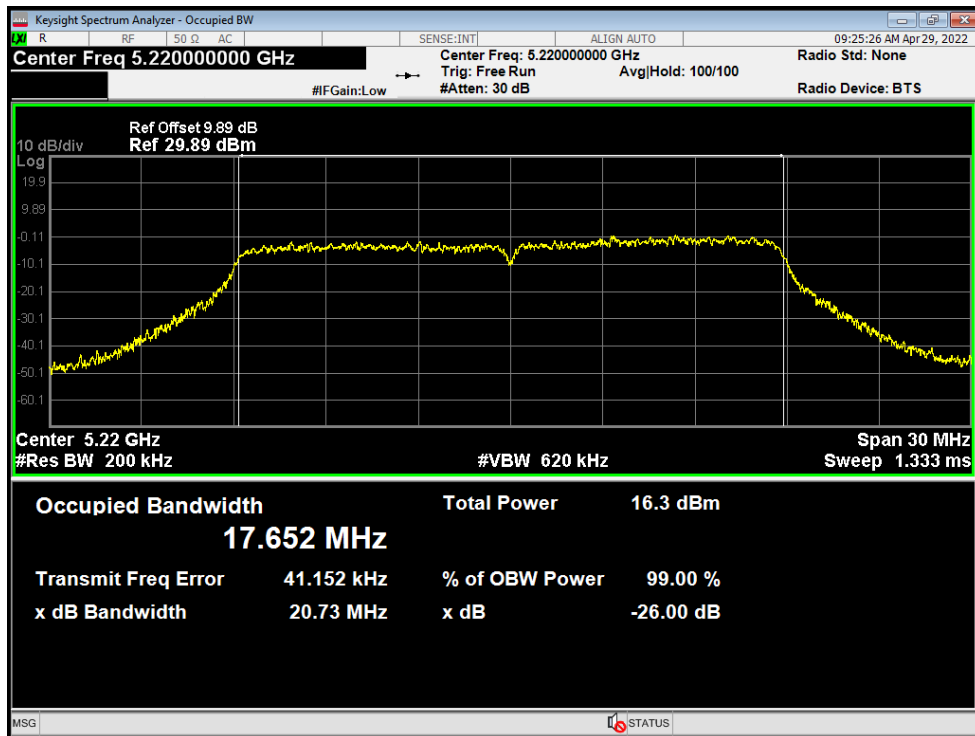
OBW NVNT a 5240MHz Ant1



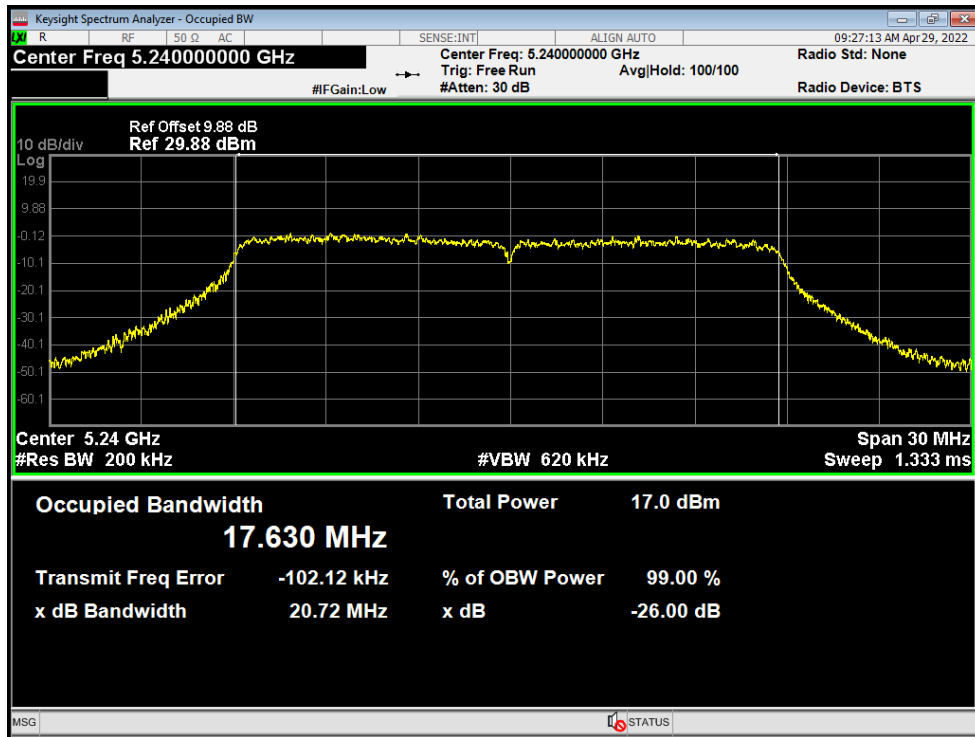
OBW NVNT ac20 5180MHz Ant1



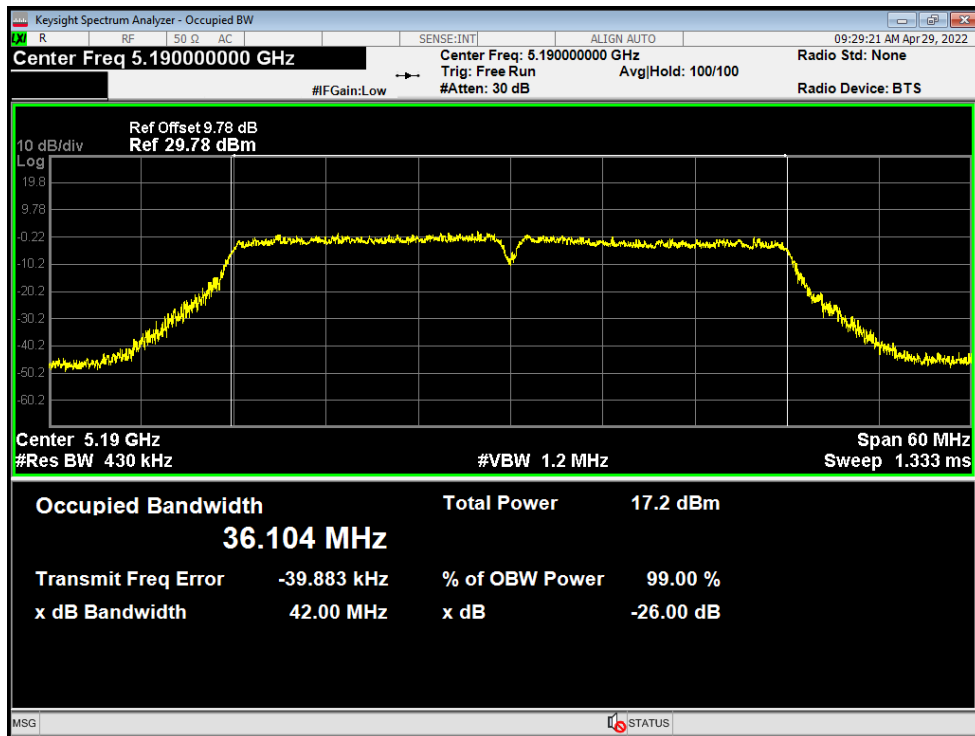
OBW NVNT ac20 5220MHz Ant1



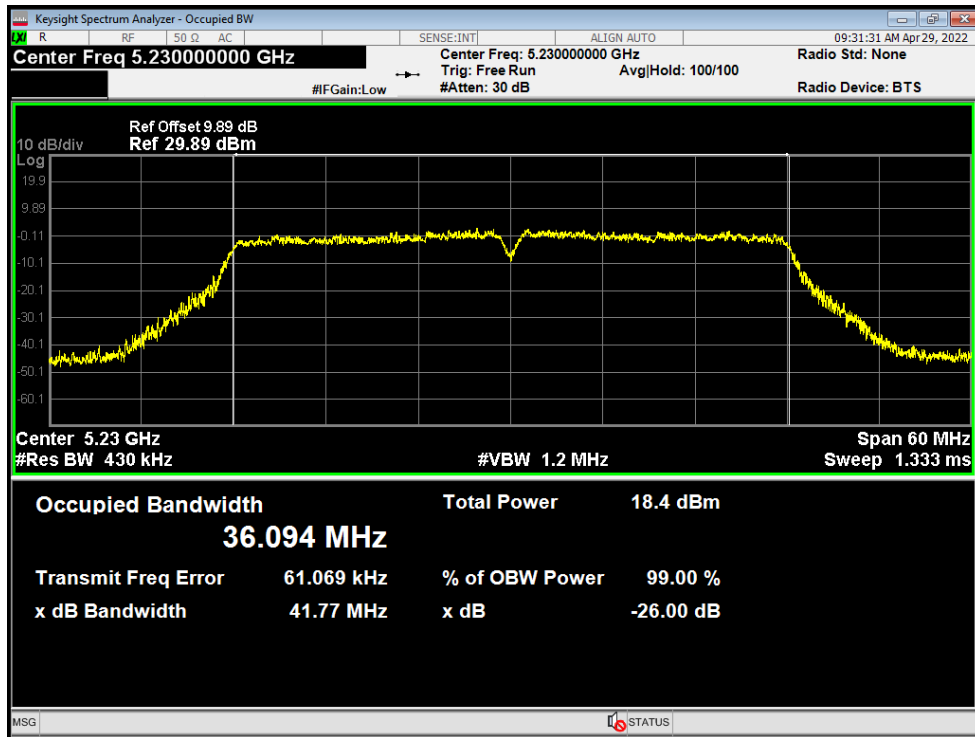
OBW NVNT ac20 5240MHz Ant1



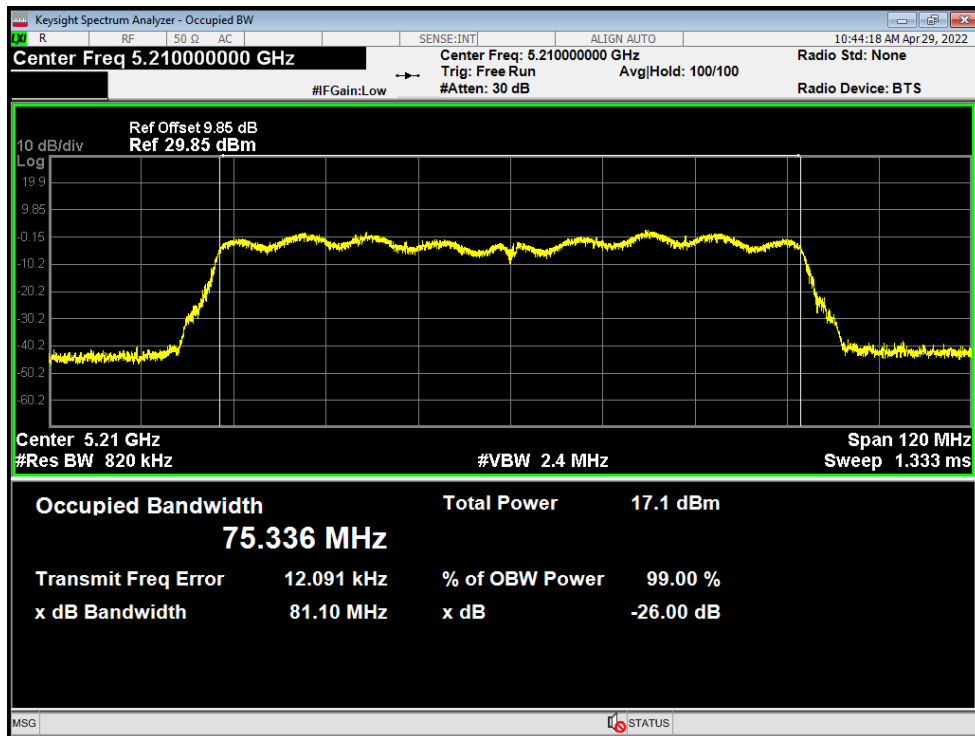
OBW NVNT ac40 5190MHz Ant1



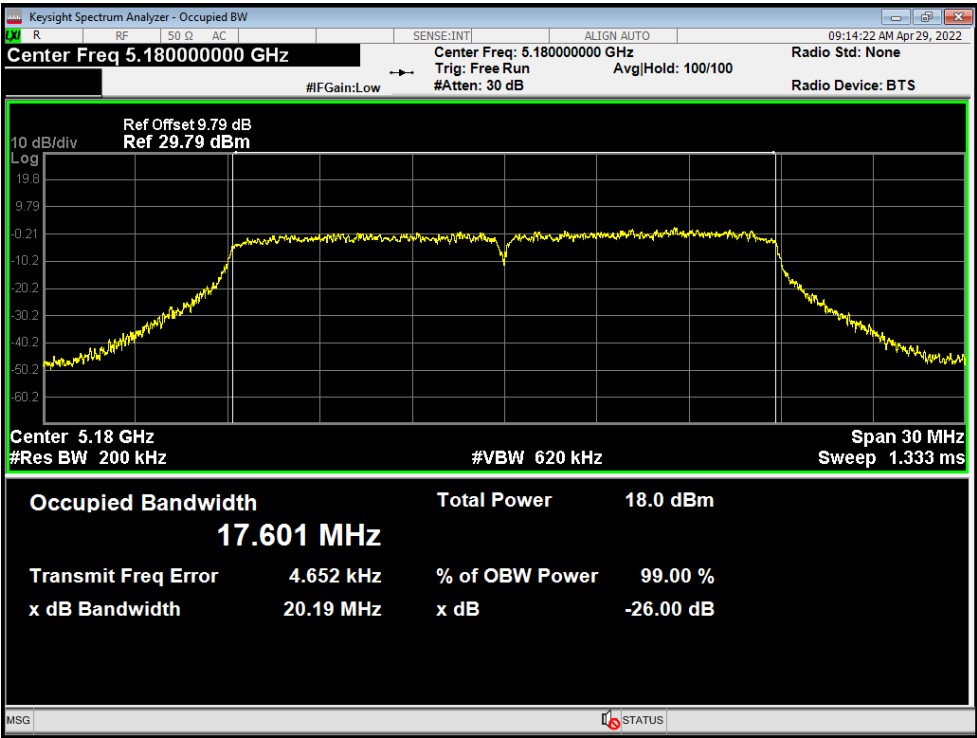
OBW NVNT ac40 5230MHz Ant1



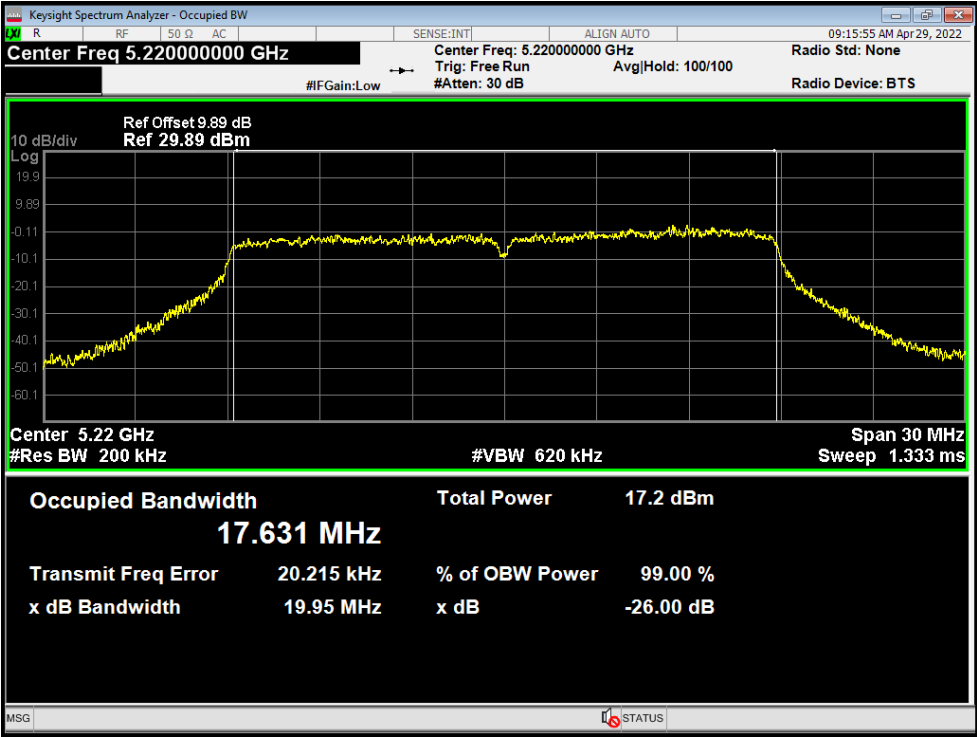
OBW NVNT ac80 5210MHz Ant1



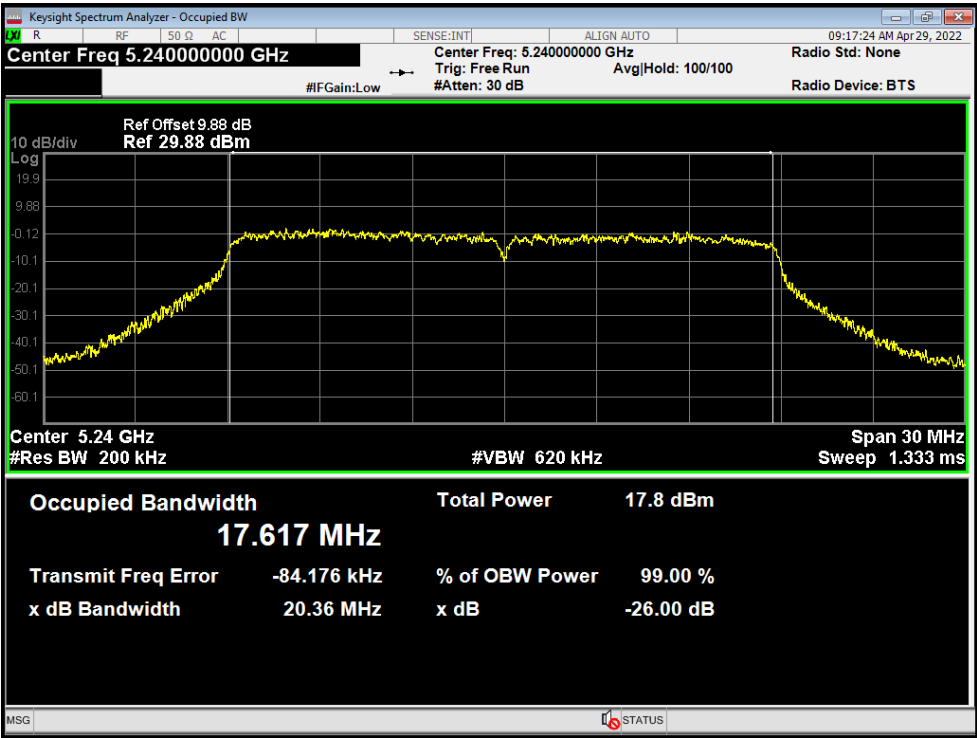
OBW NVNT n20 5180MHz Ant1



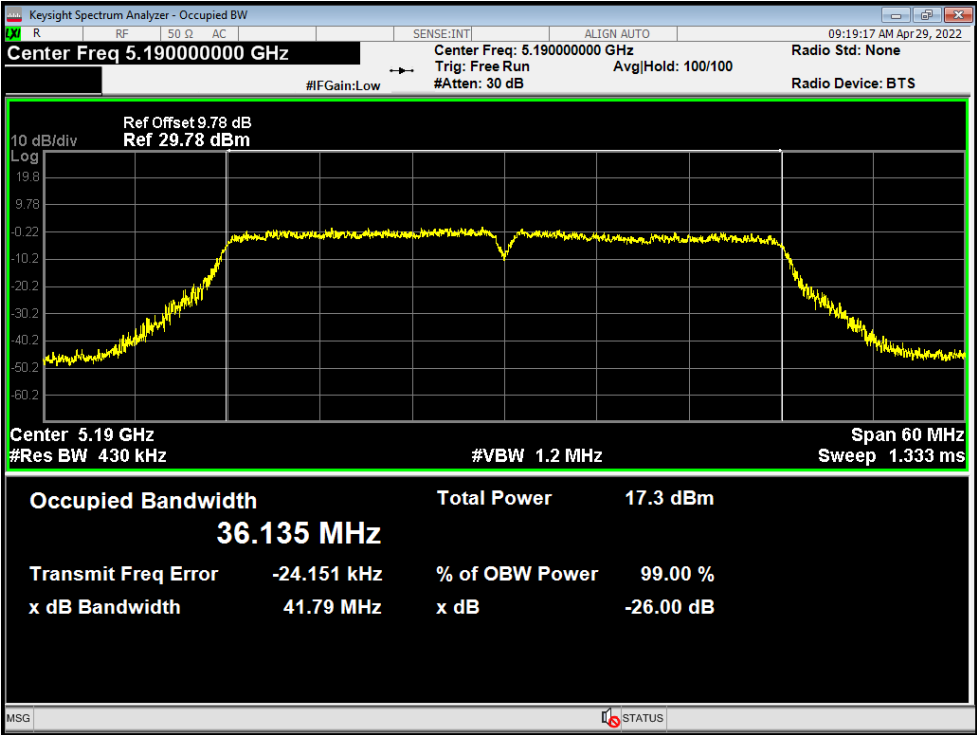
OBW NVNT n20 5220MHz Ant1



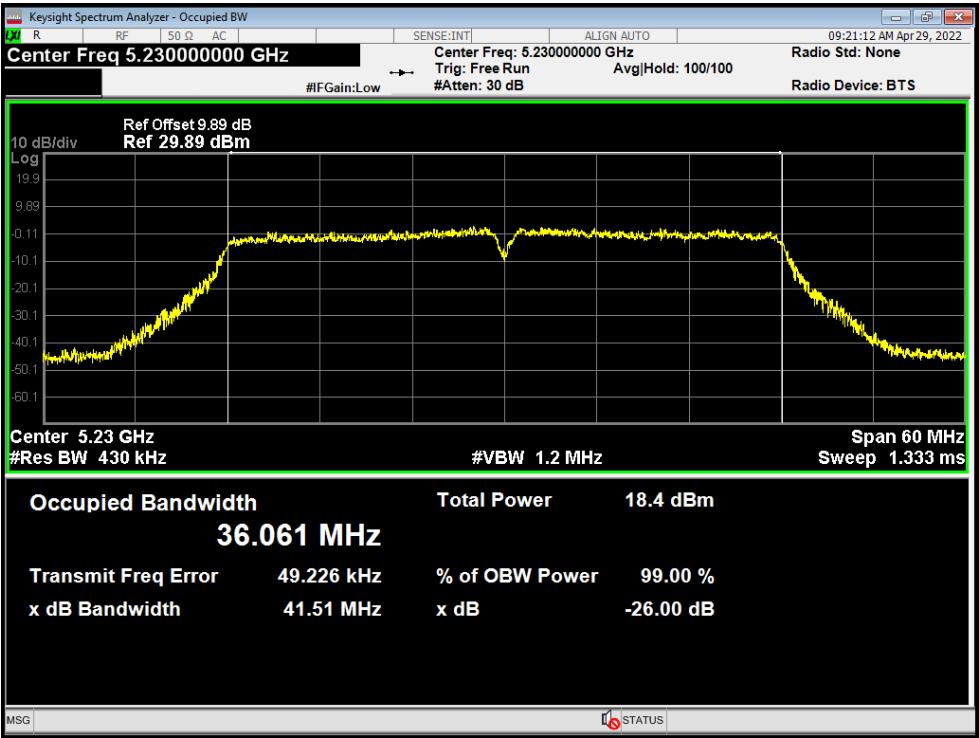
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



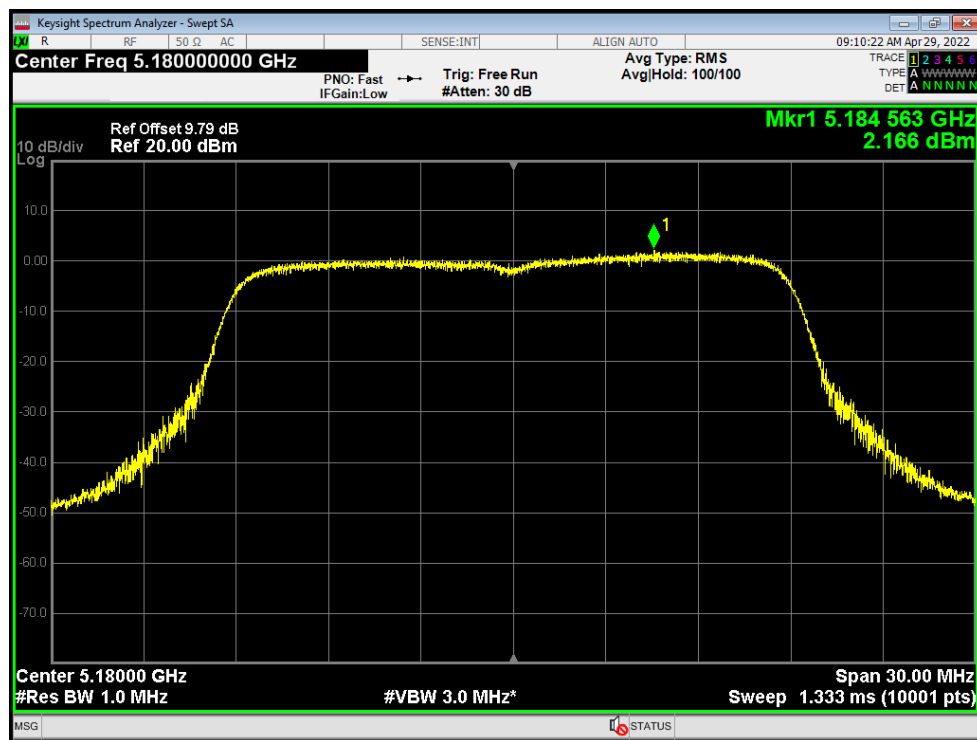
OBW NVNT n40 5230MHz Ant1



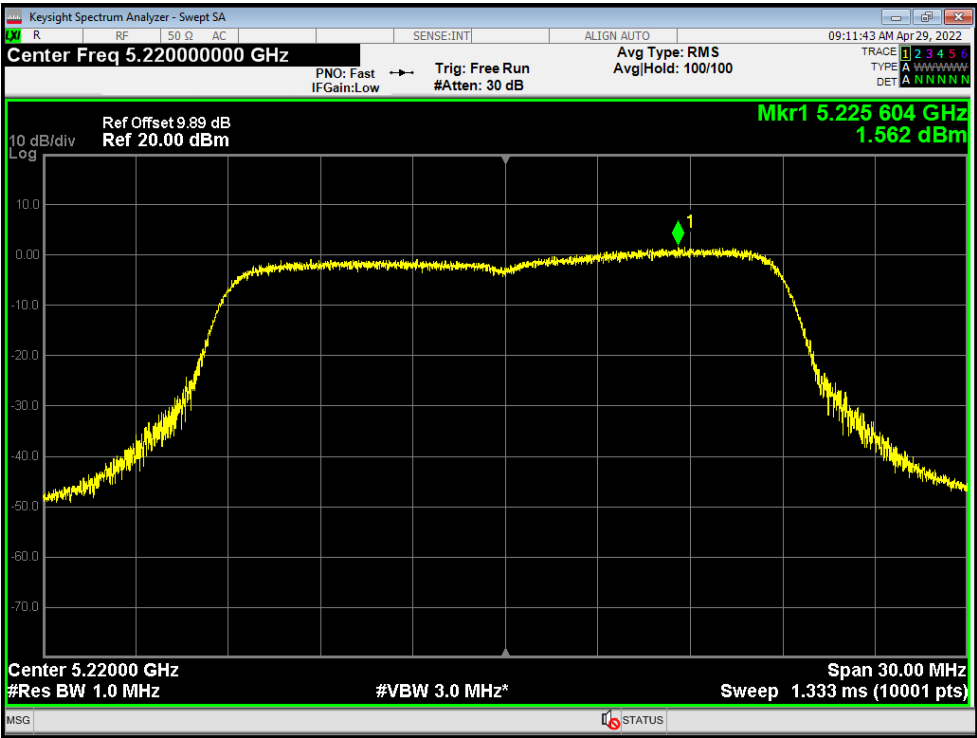
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	2.166	11	Pass
NVNT	a	5220	Ant1	1.562	11	Pass
NVNT	a	5240	Ant1	1.849	11	Pass
NVNT	ac20	5180	Ant1	1.76	11	Pass
NVNT	ac20	5220	Ant1	1.348	11	Pass
NVNT	ac20	5240	Ant1	1.663	11	Pass
NVNT	ac40	5190	Ant1	-1.456	11	Pass
NVNT	ac40	5230	Ant1	0.172	11	Pass
NVNT	ac80	5210	Ant1	-4.003	11	Pass
NVNT	n20	5180	Ant1	1.729	11	Pass
NVNT	n20	5220	Ant1	1.459	11	Pass
NVNT	n20	5240	Ant1	2.235	11	Pass
NVNT	n40	5190	Ant1	-1.172	11	Pass
NVNT	n40	5230	Ant1	-0.021	11	Pass

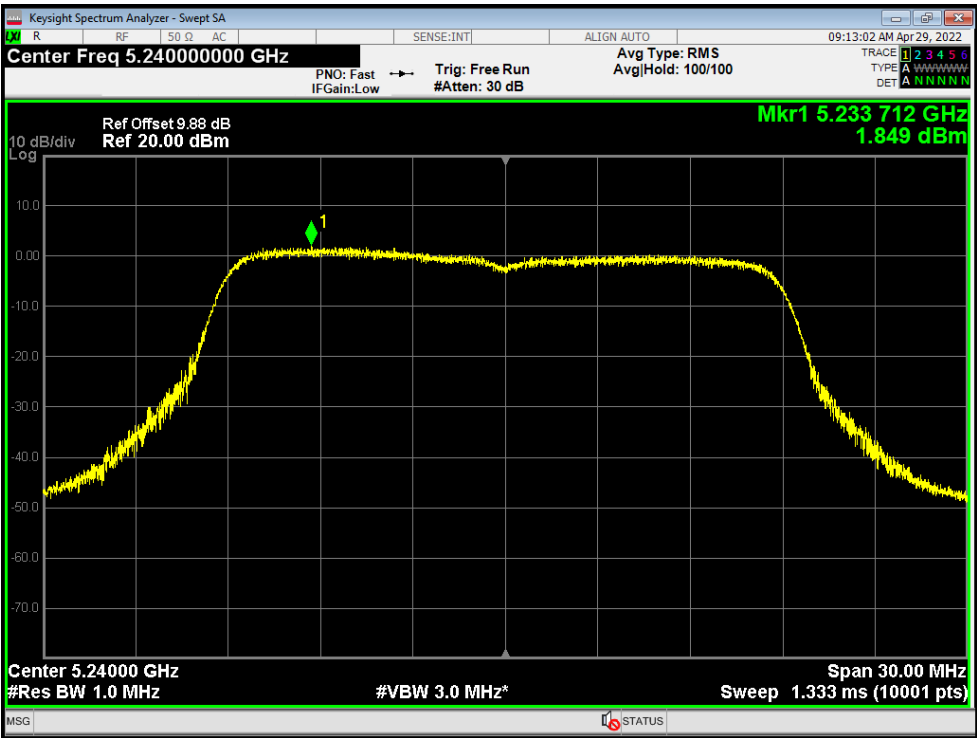
PSD NVNT a 5180MHz Ant1



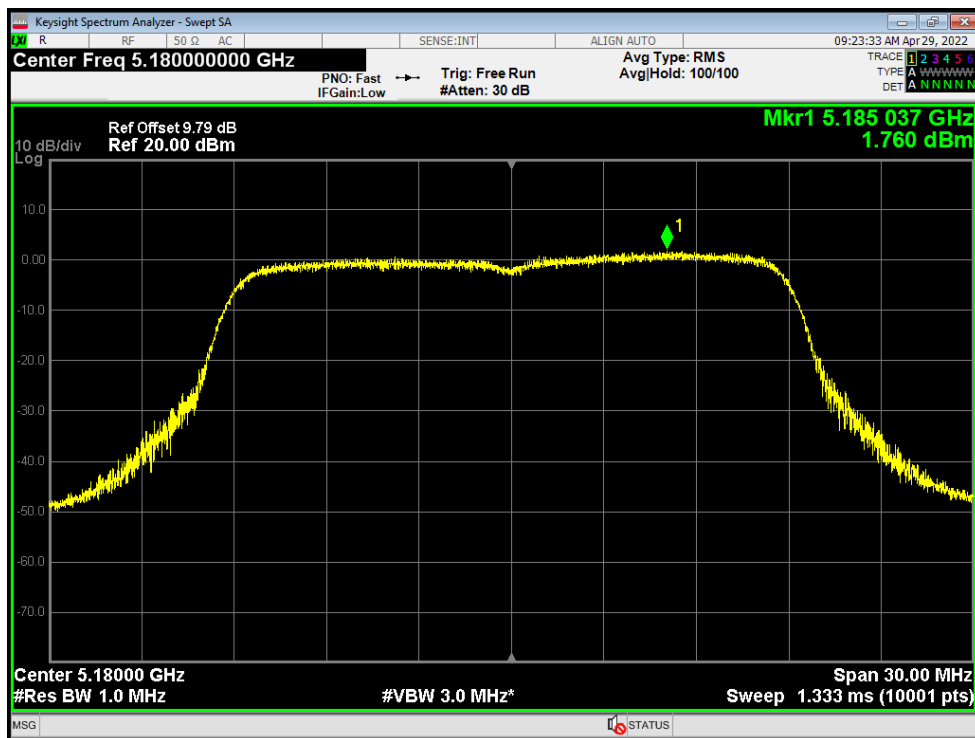
PSD NVNT a 5220MHz Ant1



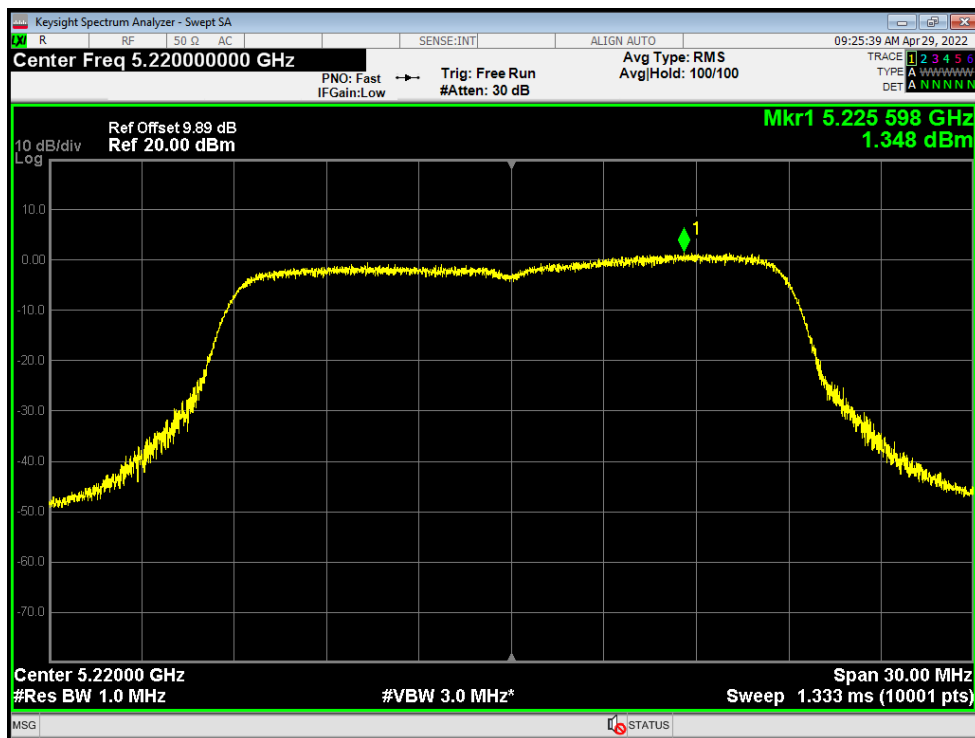
PSD NVNT a 5240MHz Ant1



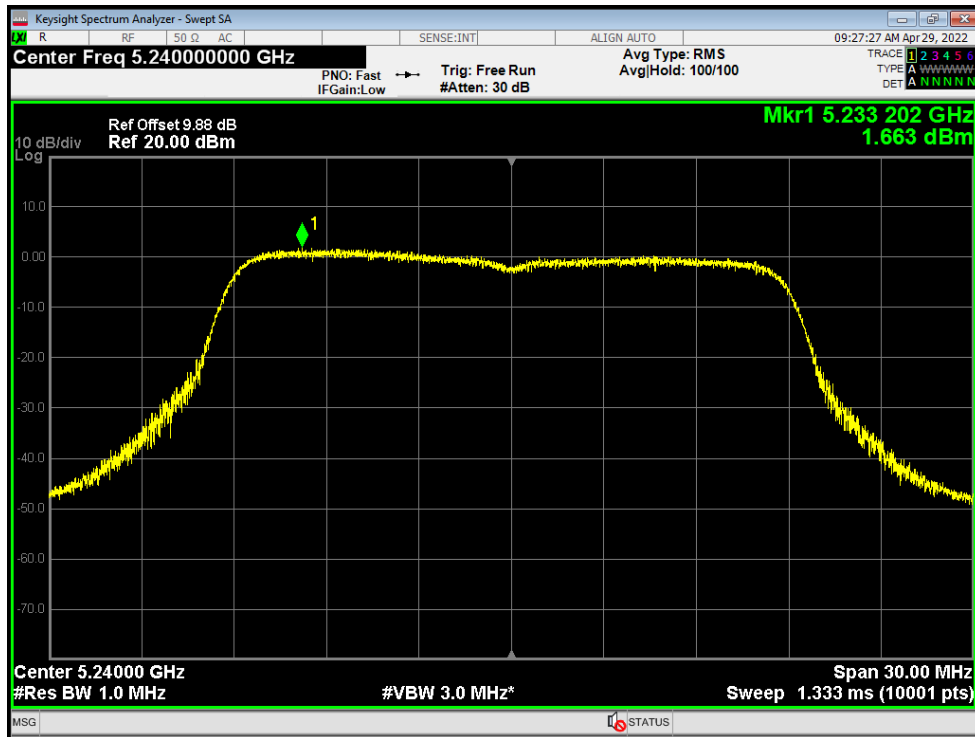
PSD NVNT ac20 5180MHz Ant1



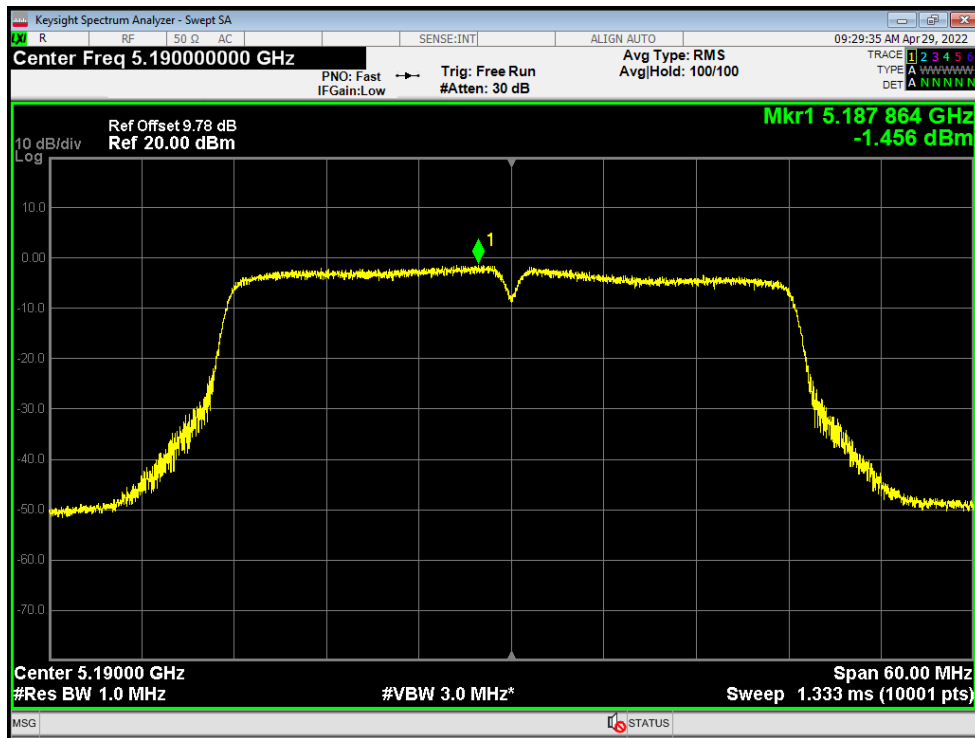
PSD NVNT ac20 5220MHz Ant1



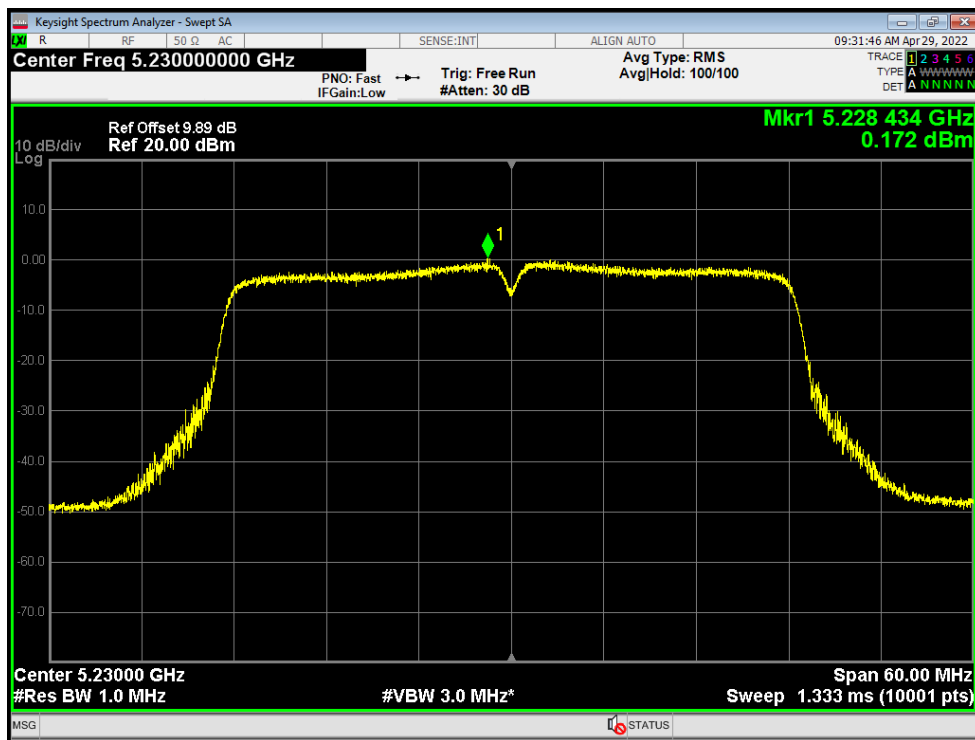
PSD NVNT ac20 5240MHz Ant1



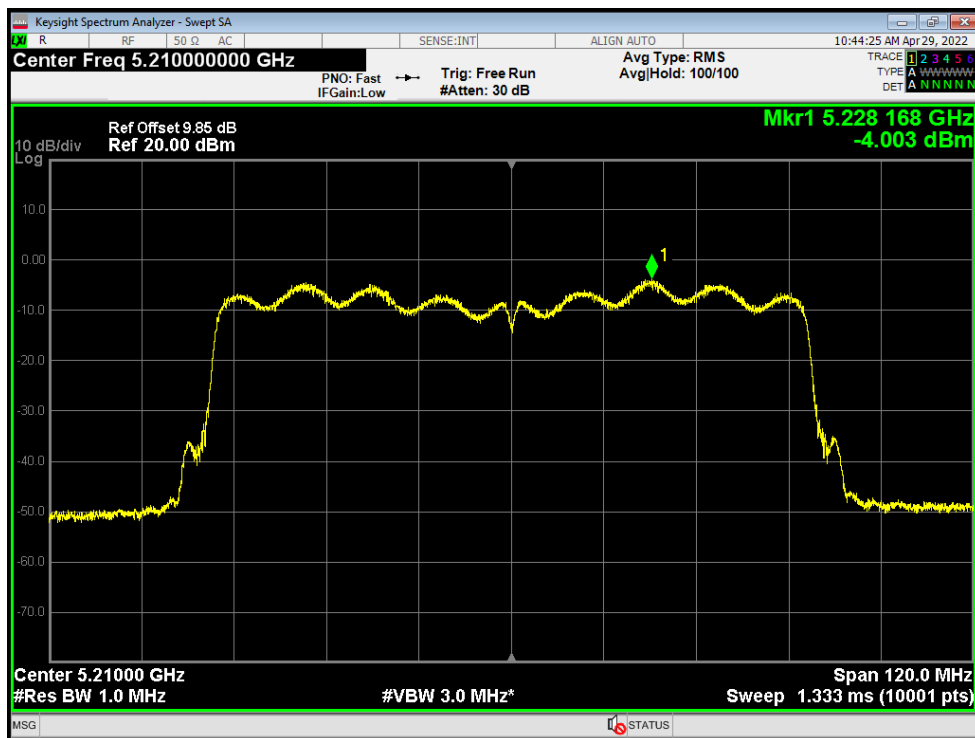
PSD NVNT ac40 5190MHz Ant1



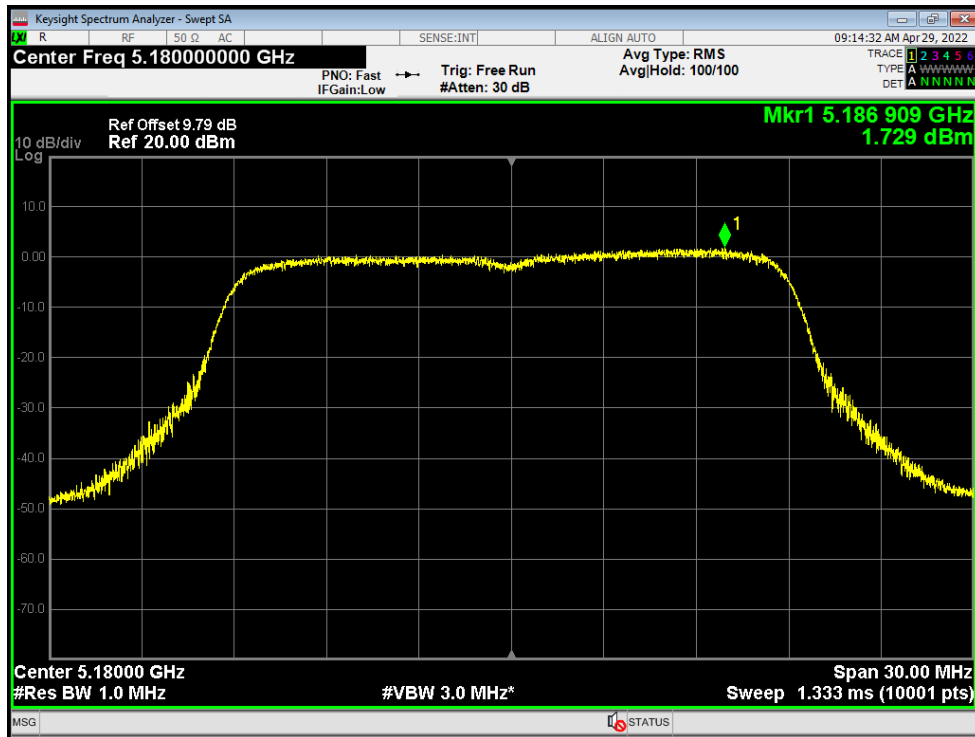
PSD NVNT ac40 5230MHz Ant1



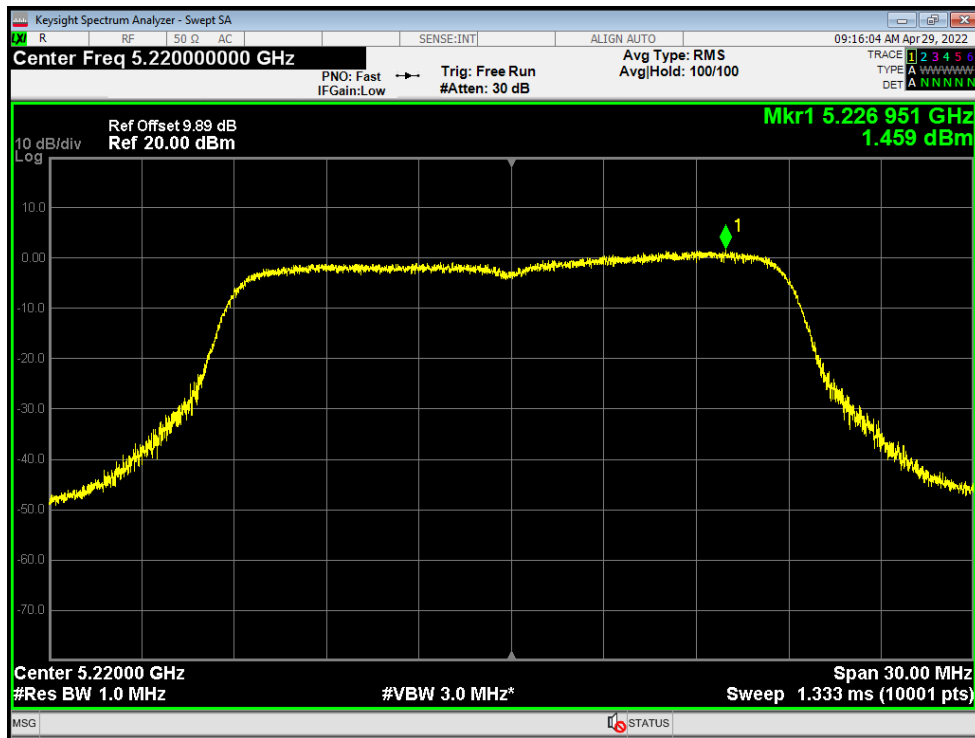
PSD NVNT ac80 5210MHz Ant1



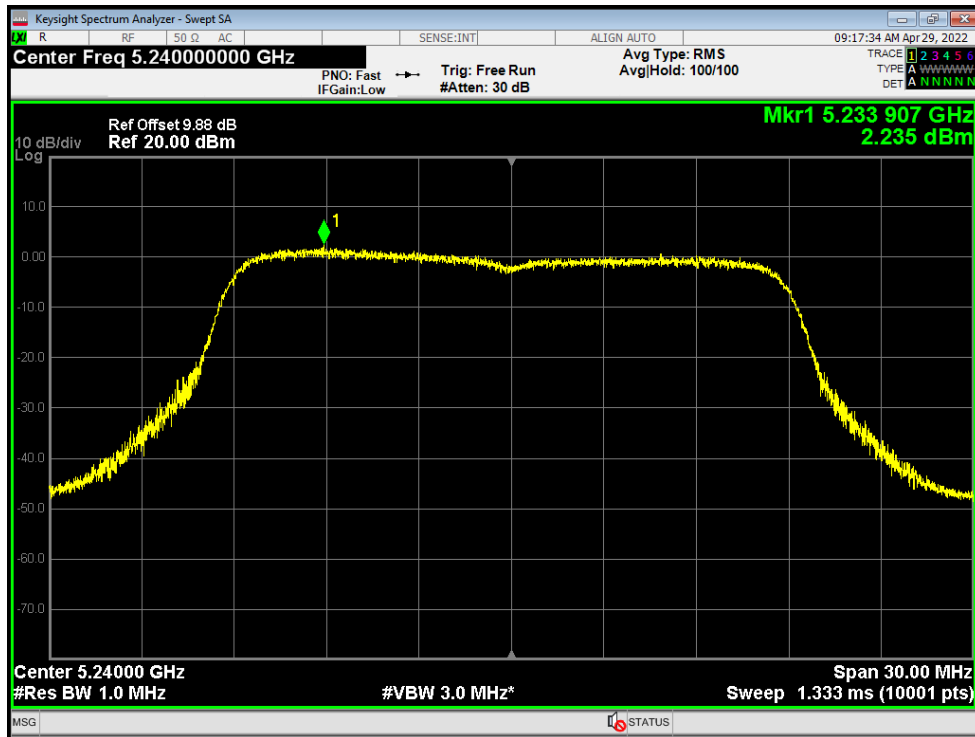
PSD NVNT n20 5180MHz Ant1



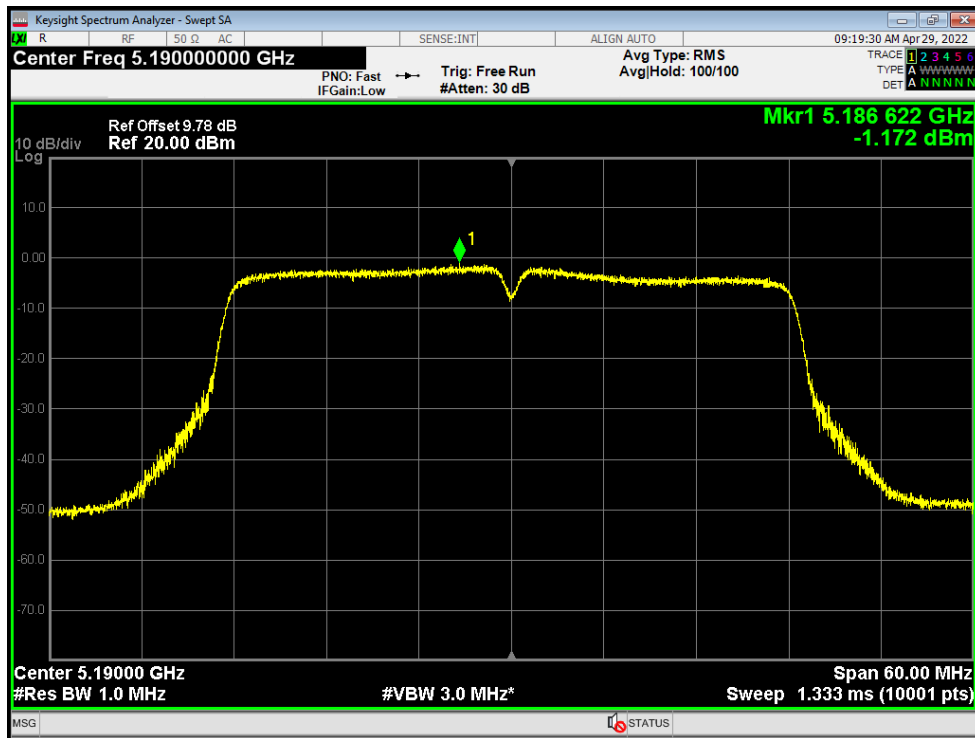
PSD NVNT n20 5220MHz Ant1



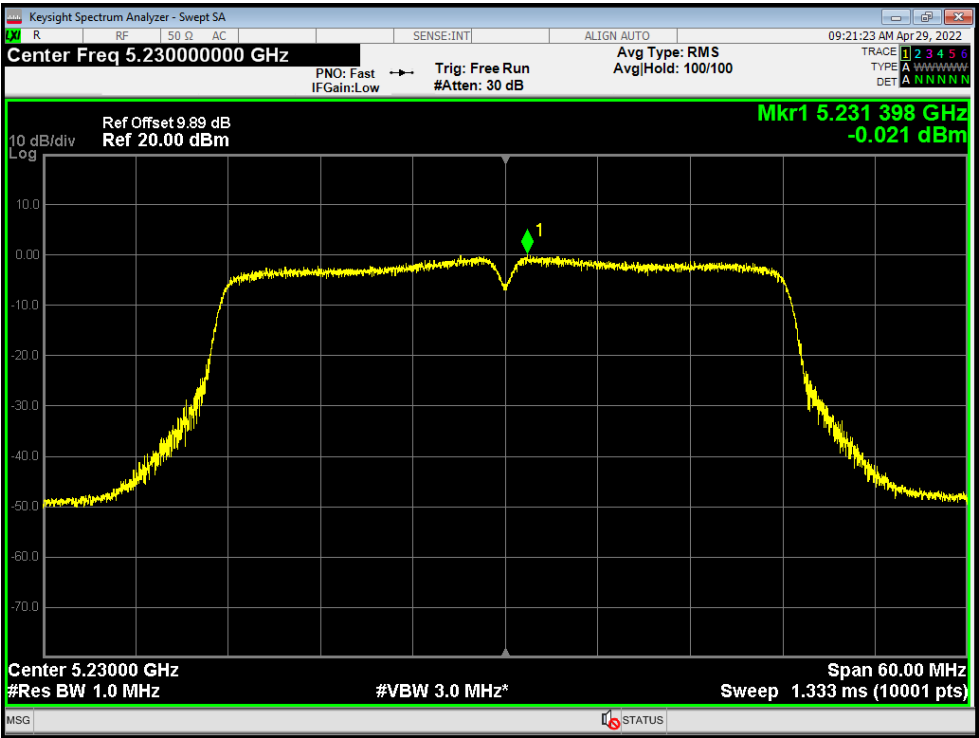
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



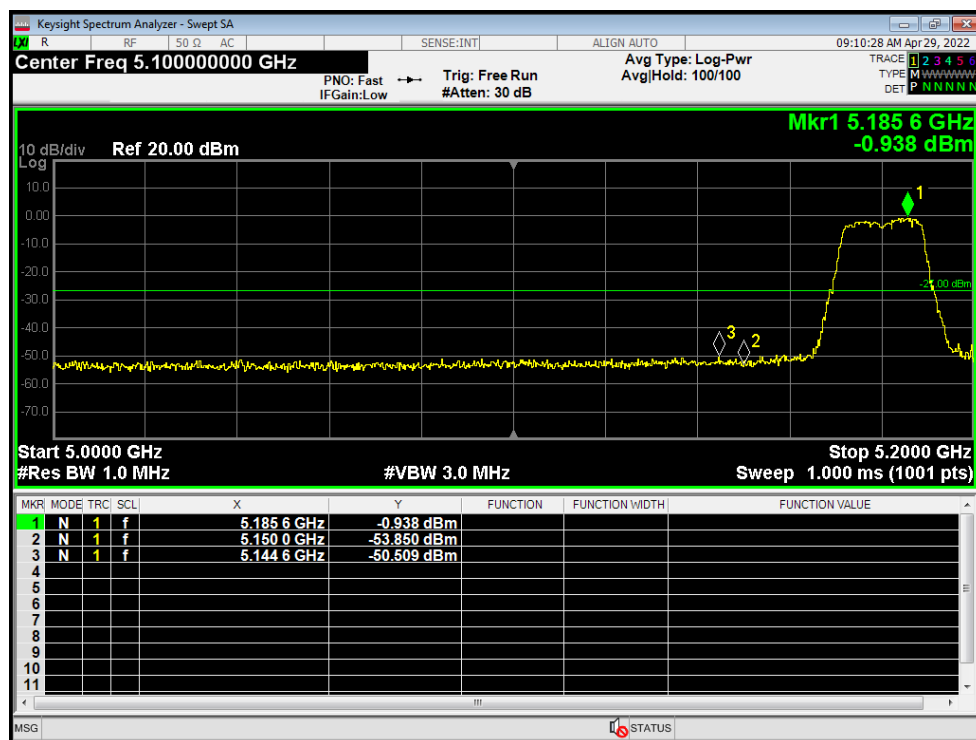
PSD NVNT n40 5230MHz Ant1



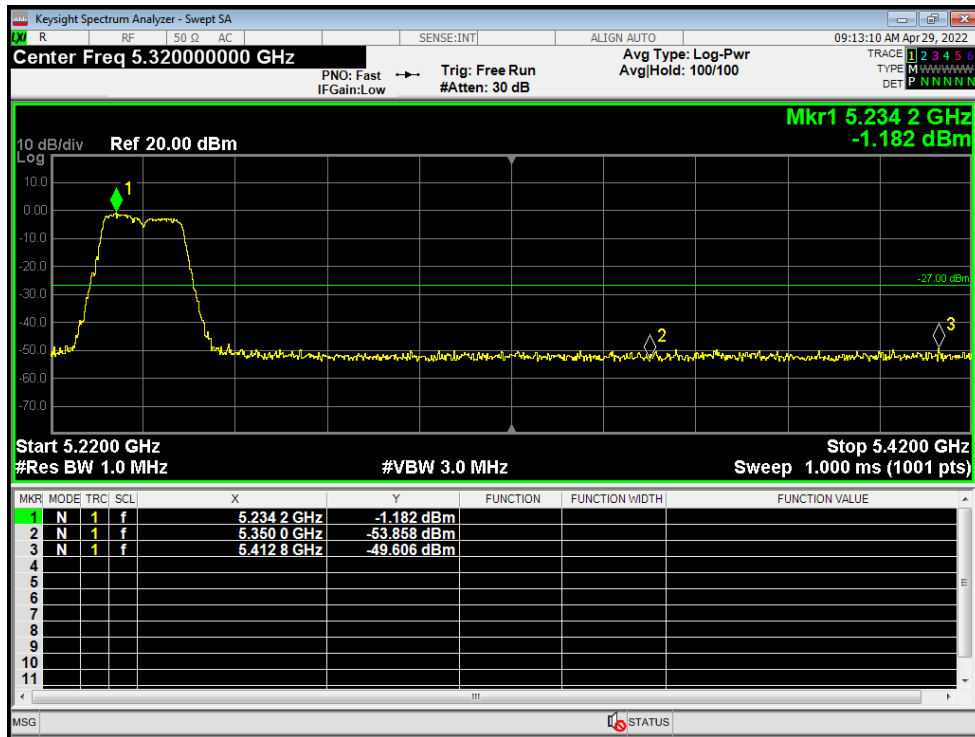
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-50.5	-27	Pass
NVNT	a	5240	Ant1	-49.6	-27	Pass
NVNT	ac20	5180	Ant1	-50.2	-27	Pass
NVNT	ac20	5240	Ant1	-49.99	-27	Pass
NVNT	ac40	5190	Ant1	-50.77	-27	Pass
NVNT	ac40	5230	Ant1	-49.68	-27	Pass
NVNT	ac80	5210	Ant1	-50.66	-27	Pass
NVNT	n20	5180	Ant1	-50.07	-27	Pass
NVNT	n20	5240	Ant1	-49.66	-27	Pass
NVNT	n40	5190	Ant1	-49.79	-27	Pass
NVNT	n40	5230	Ant1	-49.44	-27	Pass

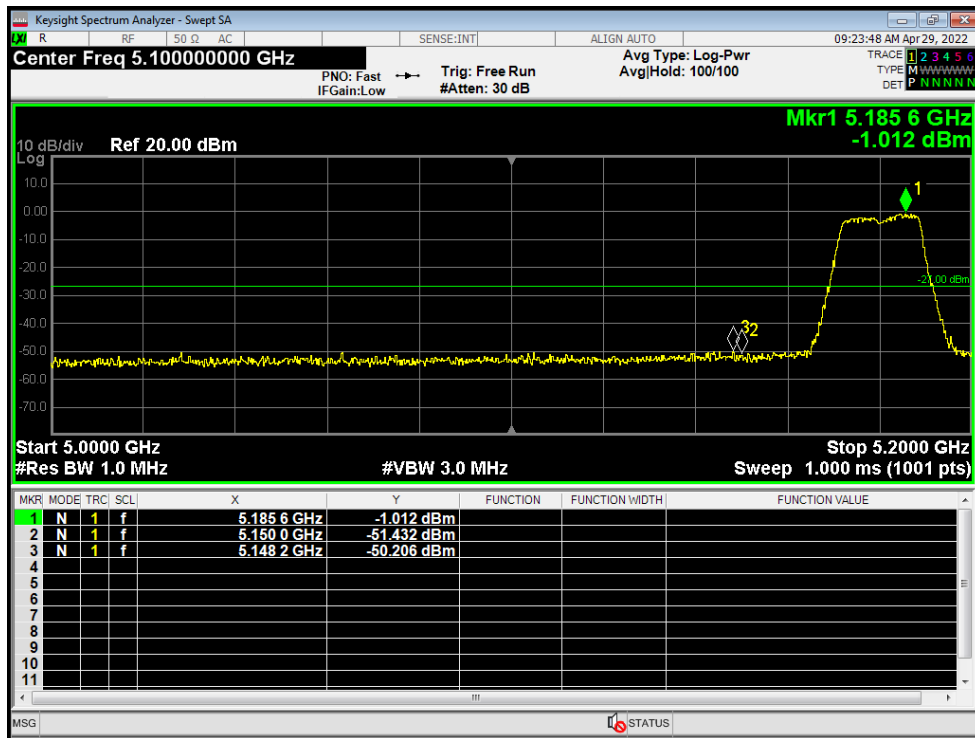
Band Edge NVNT a 5180MHz Low Ant1



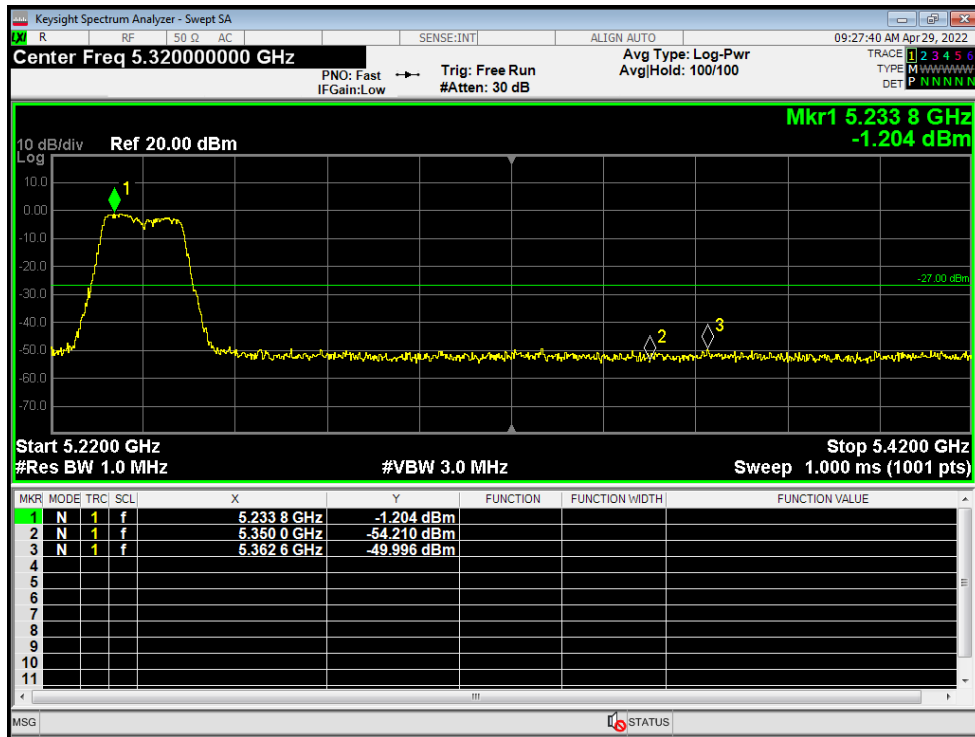
Band Edge NVNT a 5240MHz High Ant1



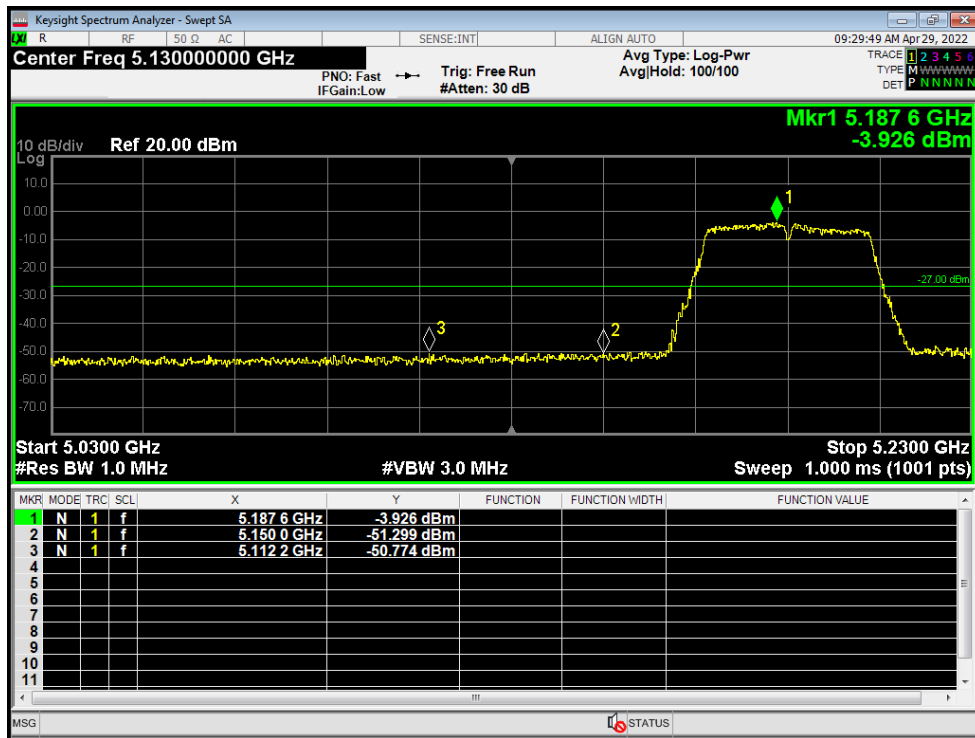
Band Edge NVNT ac20 5180MHz Low Ant1



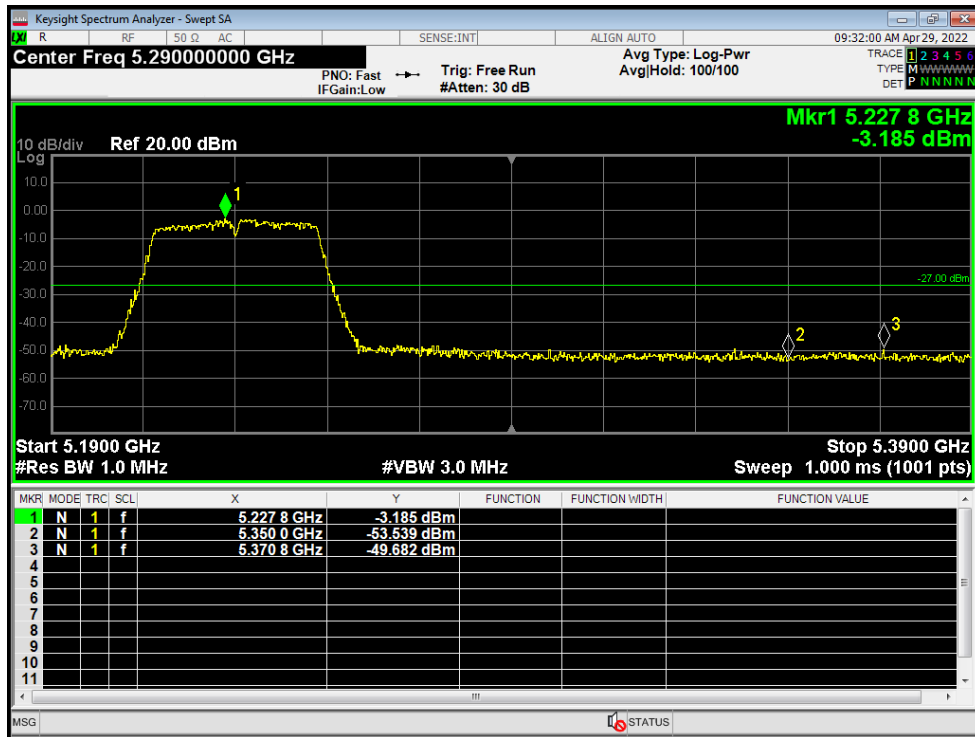
Band Edge NVNT ac20 5240MHz High Ant1



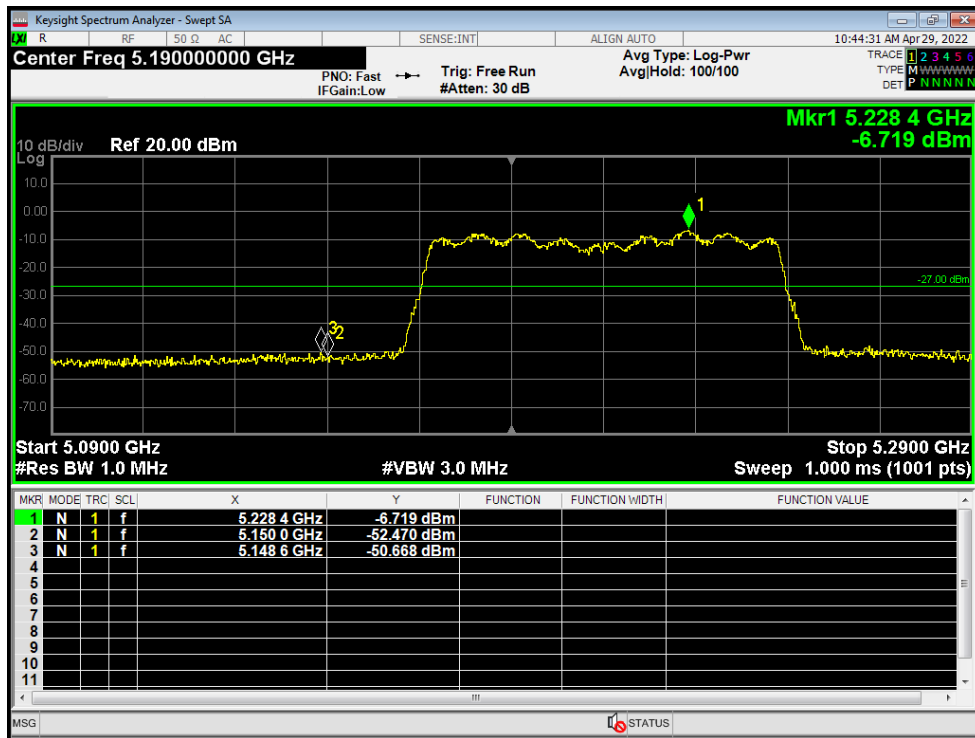
Band Edge NVNT ac40 5190MHz Low Ant1



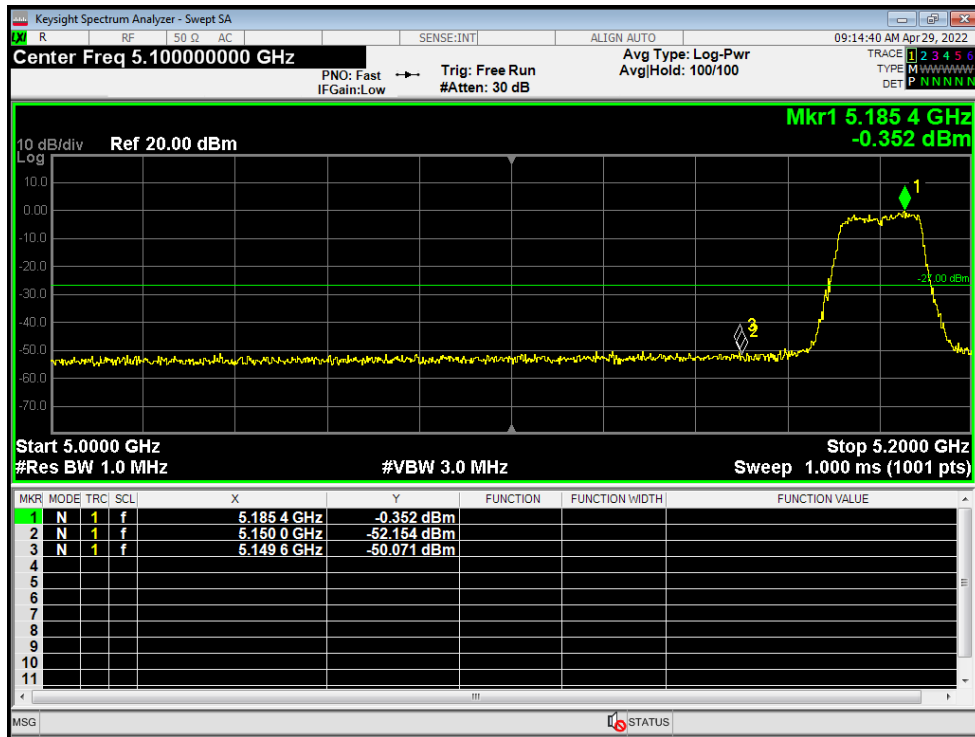
Band Edge NVNT ac40 5230MHz High Ant1



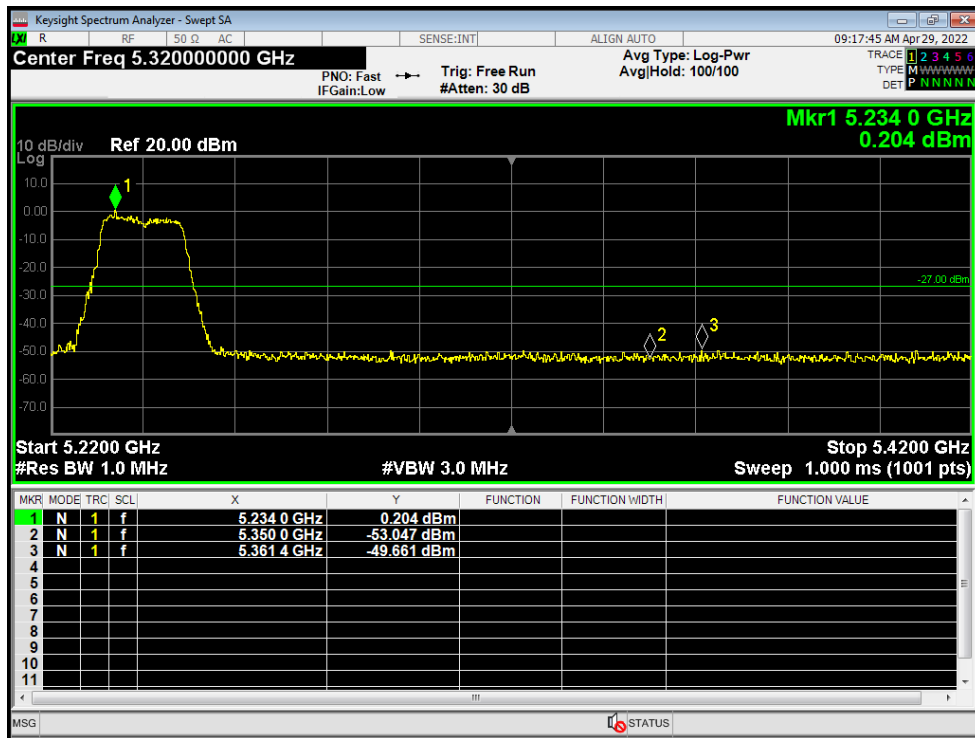
Band Edge NVNT ac80 5210MHz Low Ant1



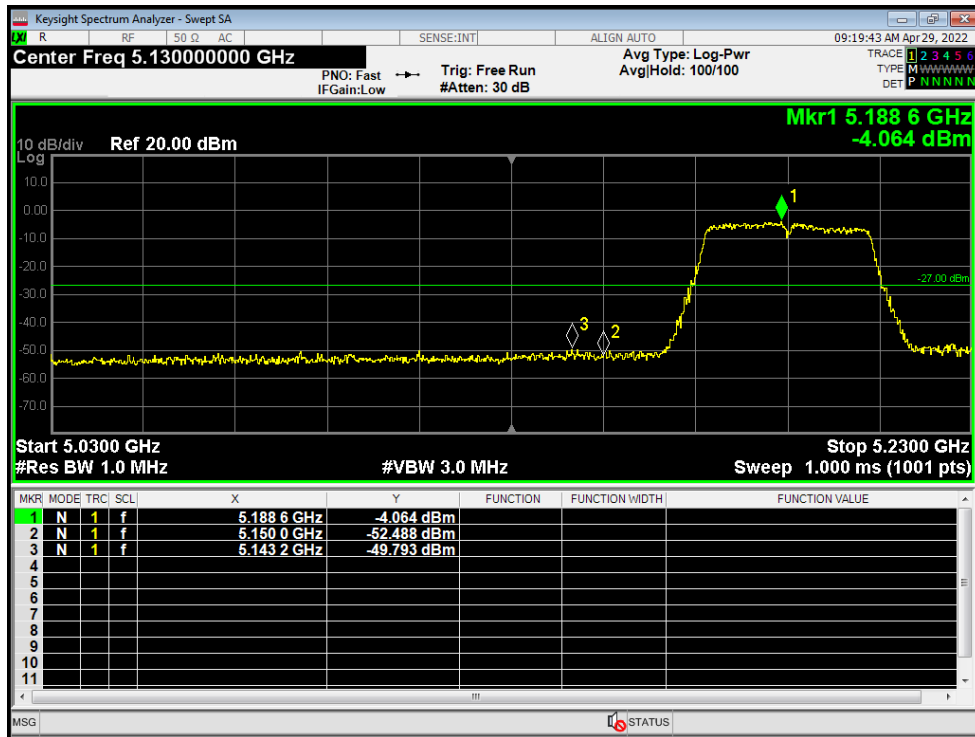
Band Edge NVNT n20 5180MHz Low Ant1



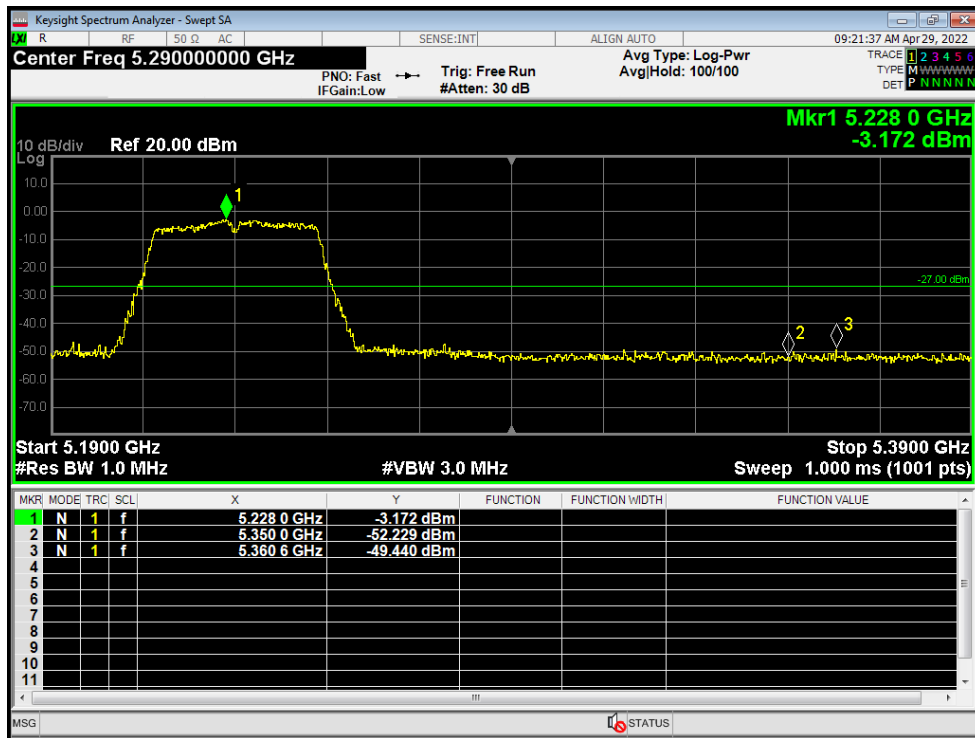
Band Edge NVNT n20 5240MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant1



Band Edge NVNT n40 5230MHz High Ant1



***** END OF REPORT *****