

**TEST REPORT****6 Conducted Unwanted Emission**

**Test result:** Pass

**6.1 Limit**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10\log(P)$  dB.

**6.2 Measurement Procedure**

In accordance with FCC rules, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10\log(P)$  dB.

The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 9kHz to 20GHz. The resolution bandwidth of 1MHz was employed for frequency band 9kHz to 20GHz. The spectrum analyzer detector was set to RMS.

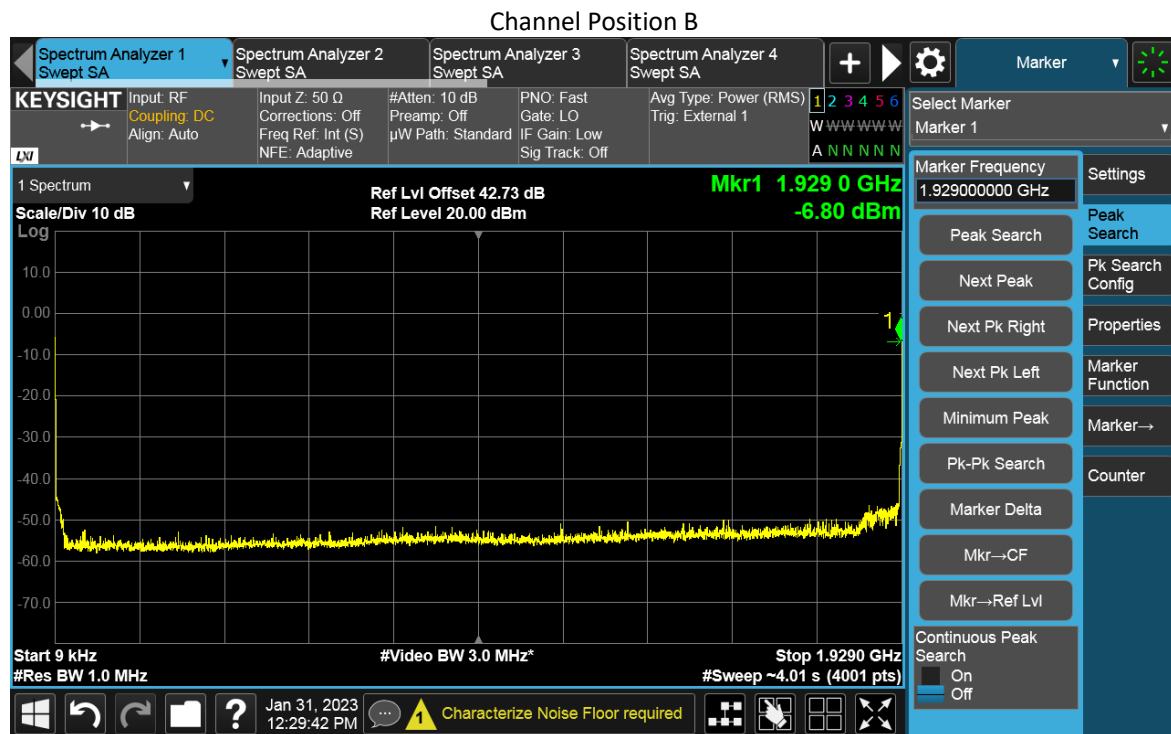
For MIMO mode configurations, the limit was adjusted with a correction of  $-6.02\text{dB} [10\log(1/4)]$  by using the Measure and Add  $10\log(N)$  dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports. Then the limit was adjusted to  $-19.02\text{dBm}$ .

## TEST REPORT

### 6.3 Measurement result

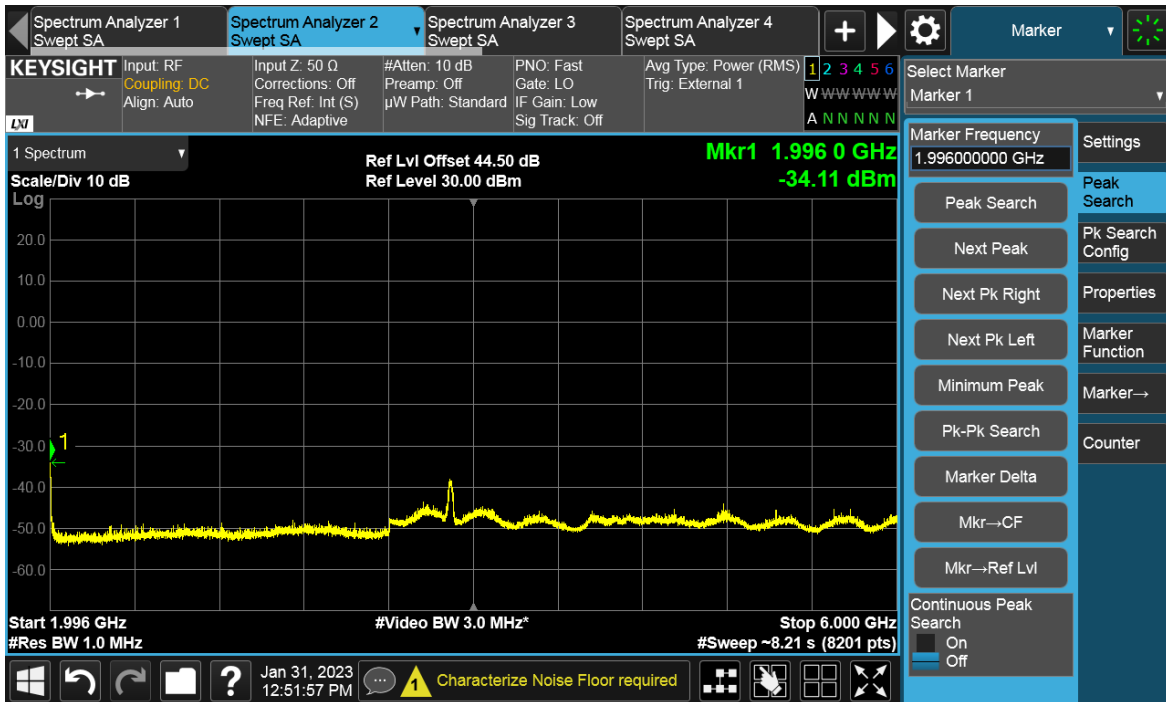
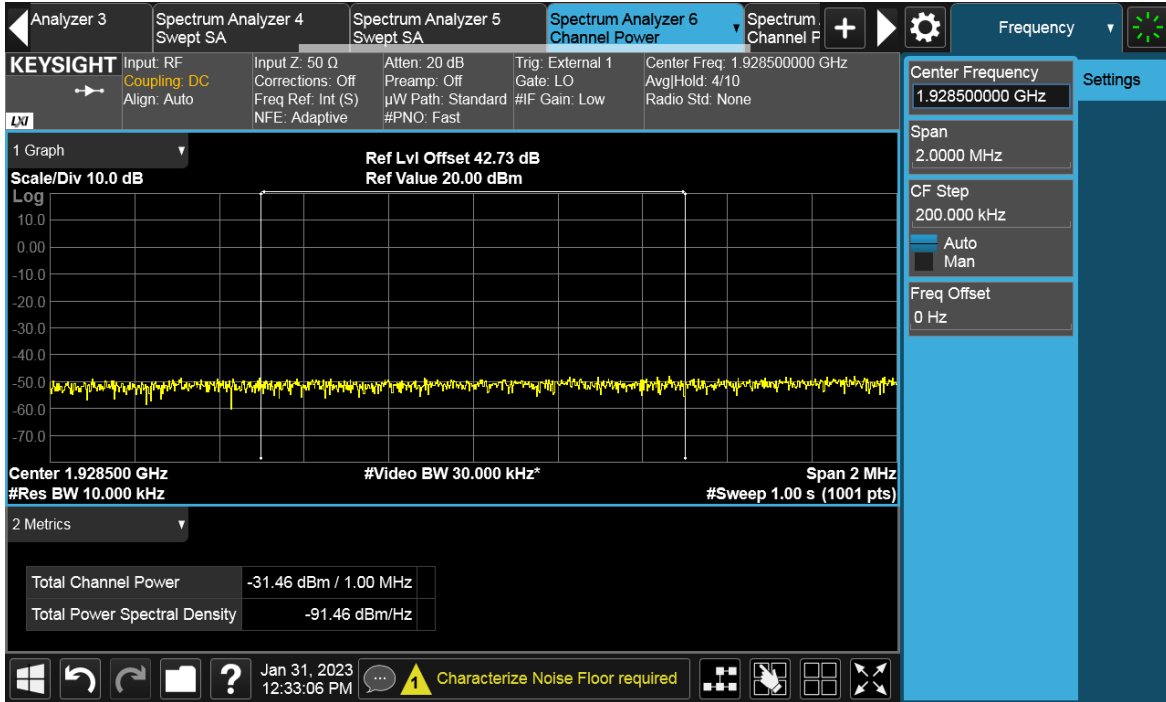
NR-1C

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
A	B	256QAM	25	1000	-19.02
A	M	256QAM	25	1000	-19.02
A	T	256QAM	25	1000	-19.02



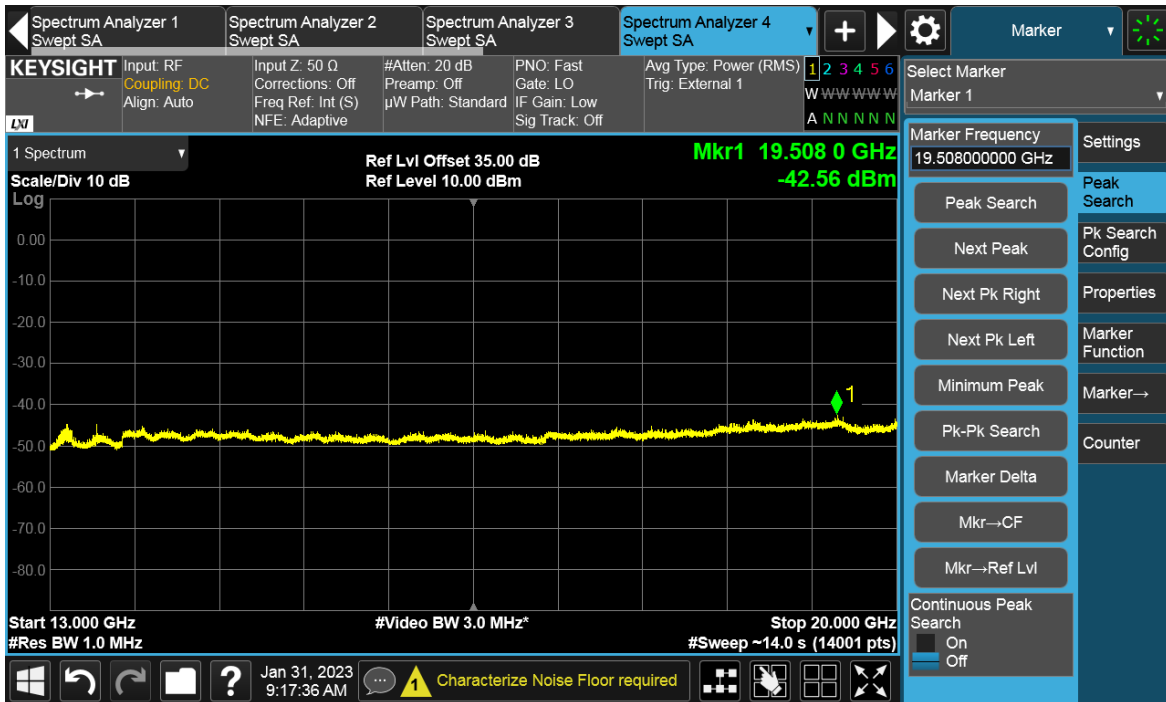
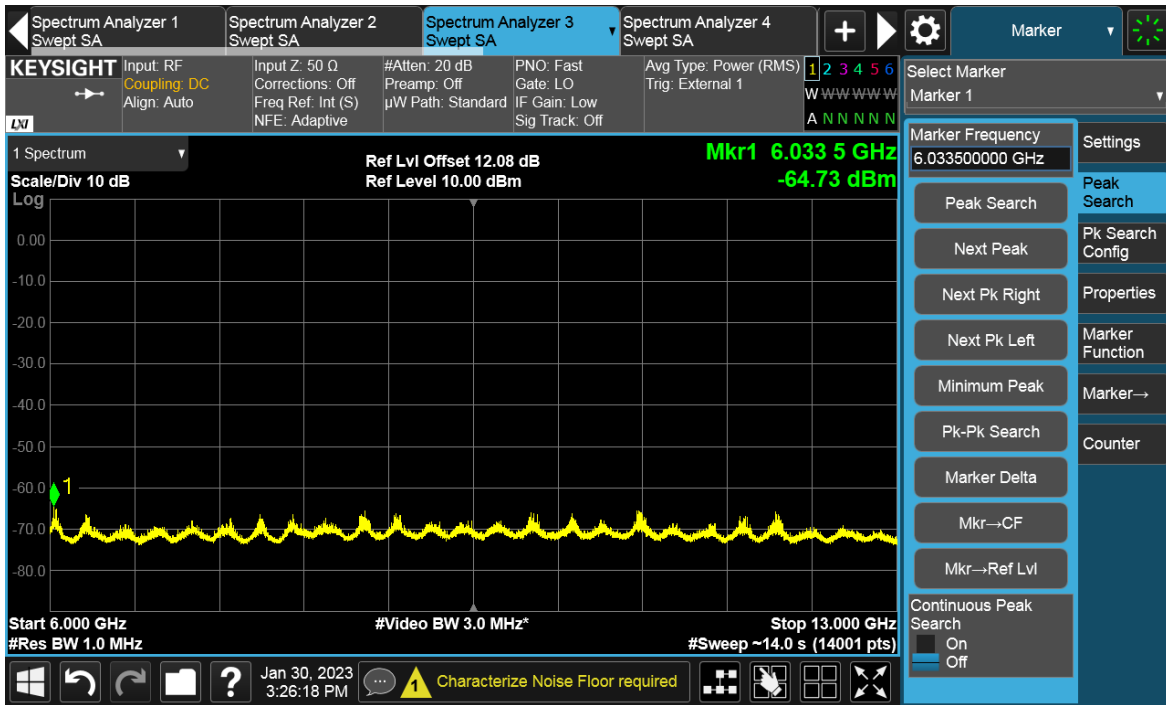
Total Quality. Assured.

## TEST REPORT

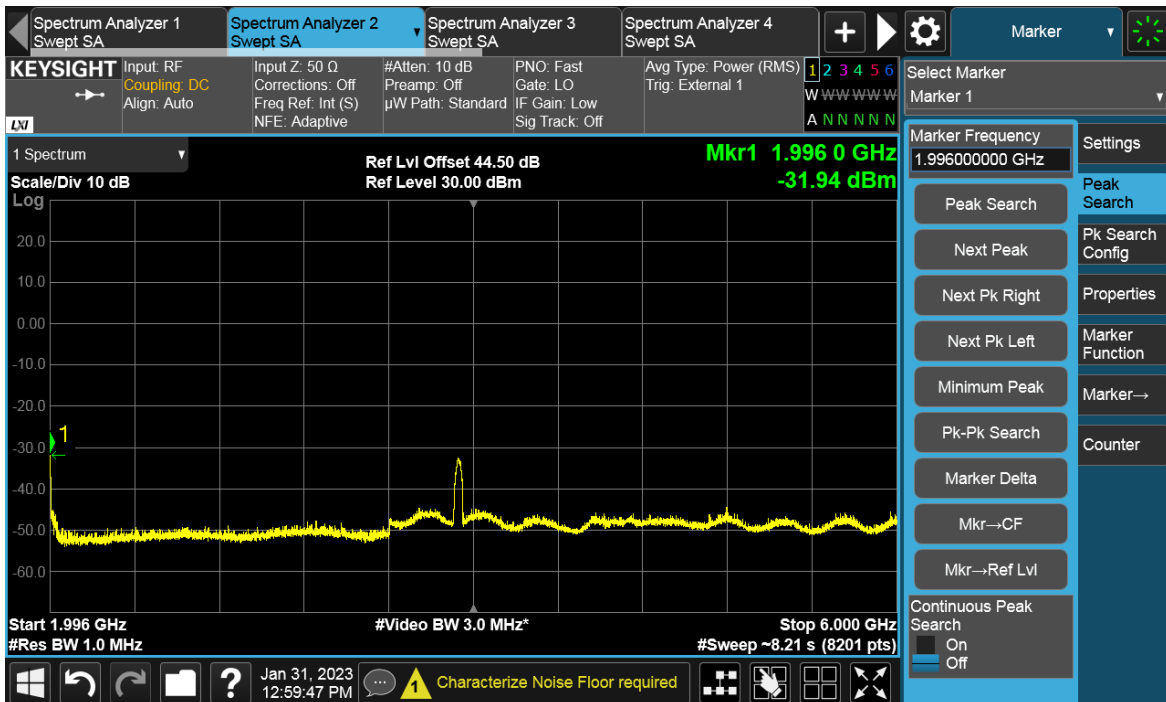
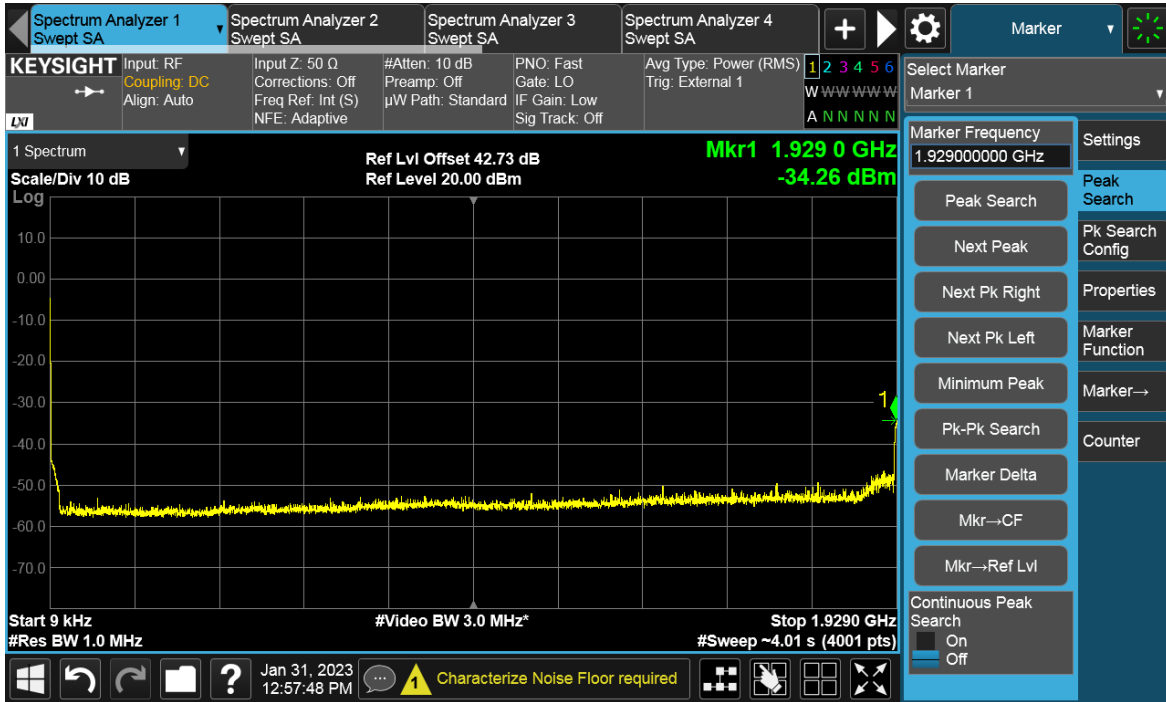


Total Quality. Assured.

## TEST REPORT

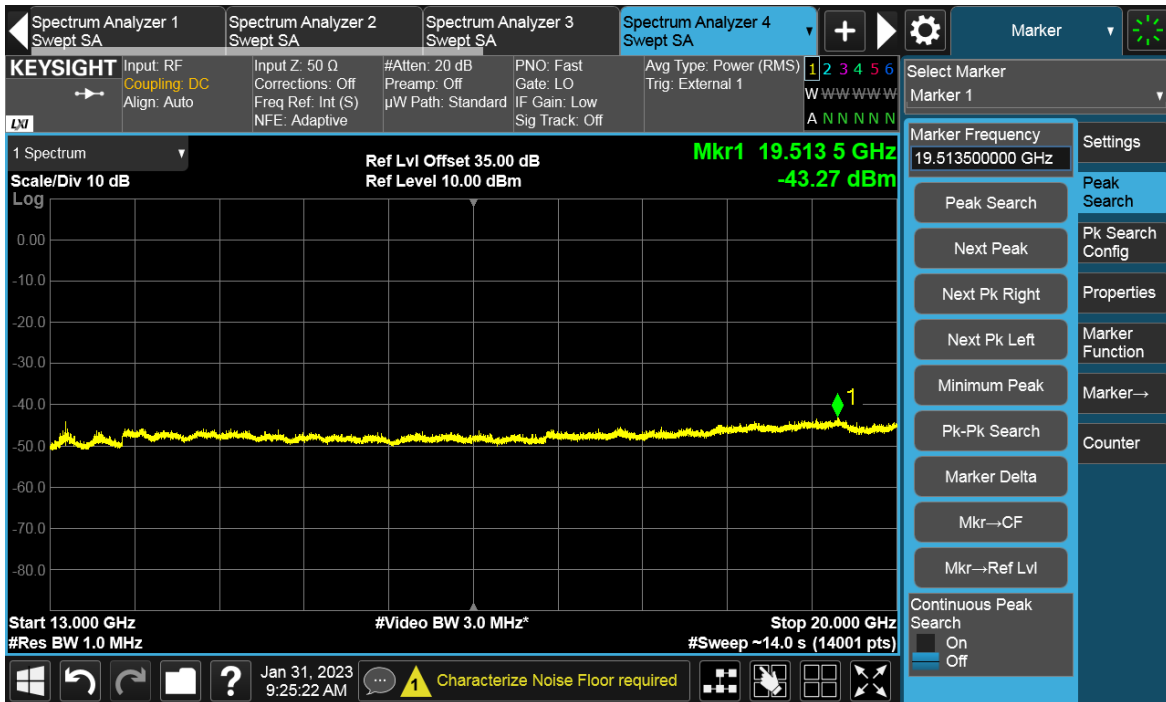
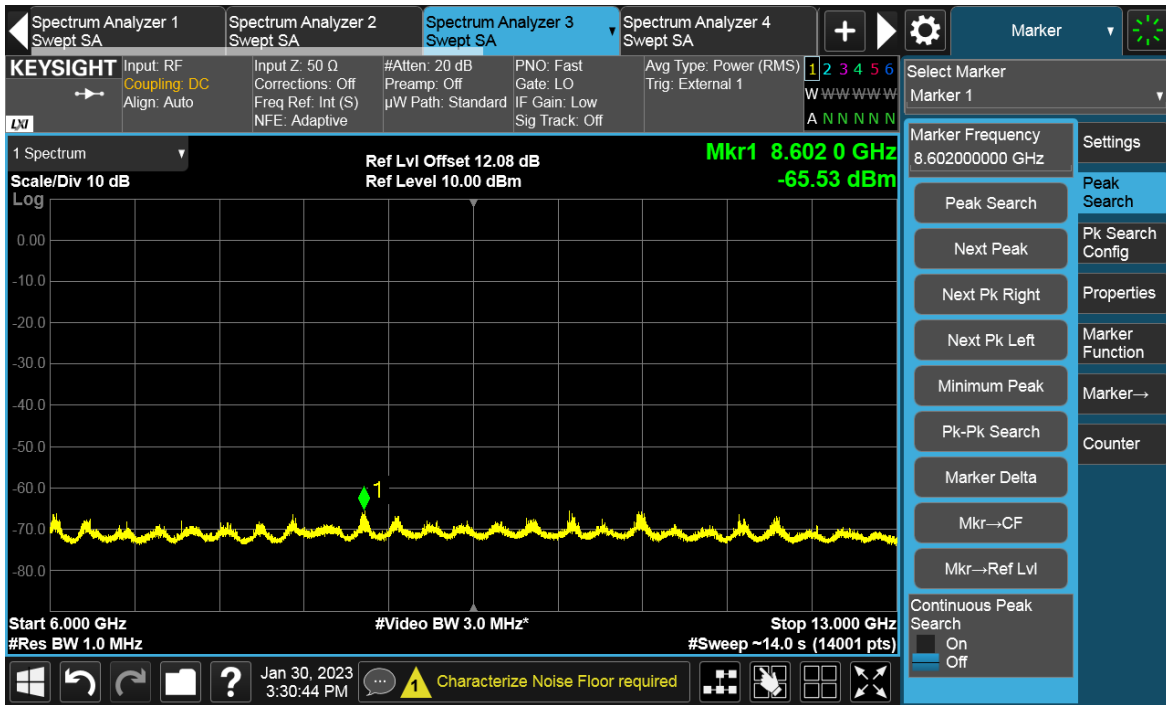


## Channel Position M

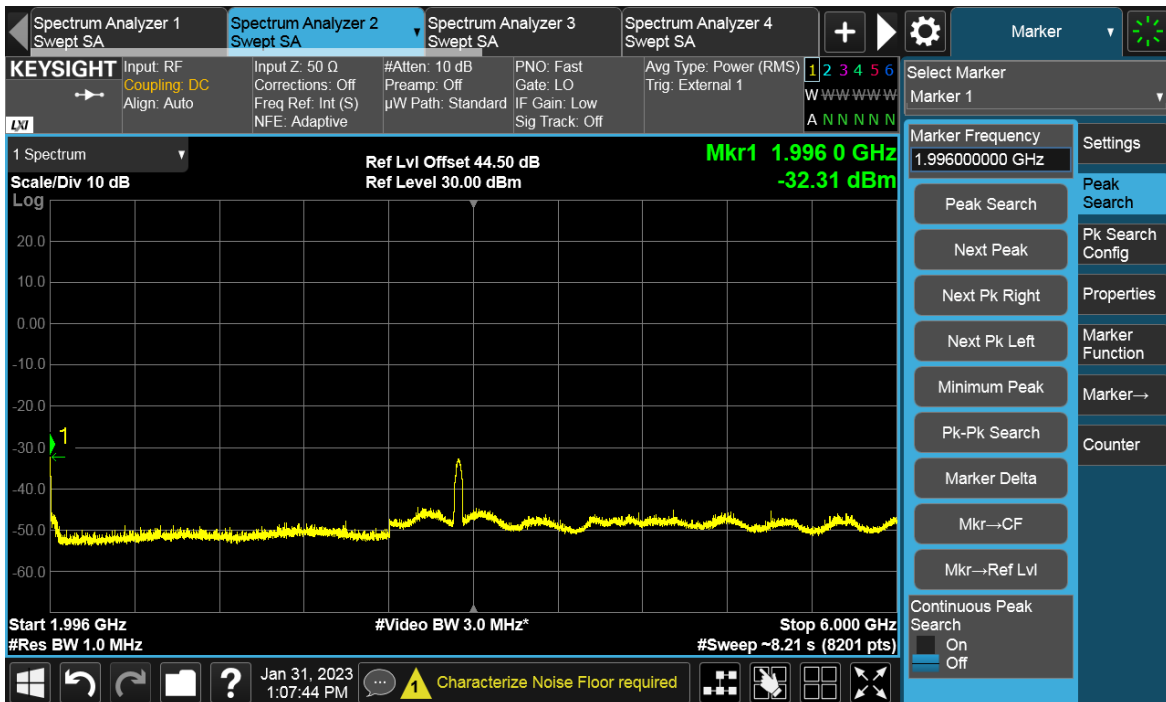
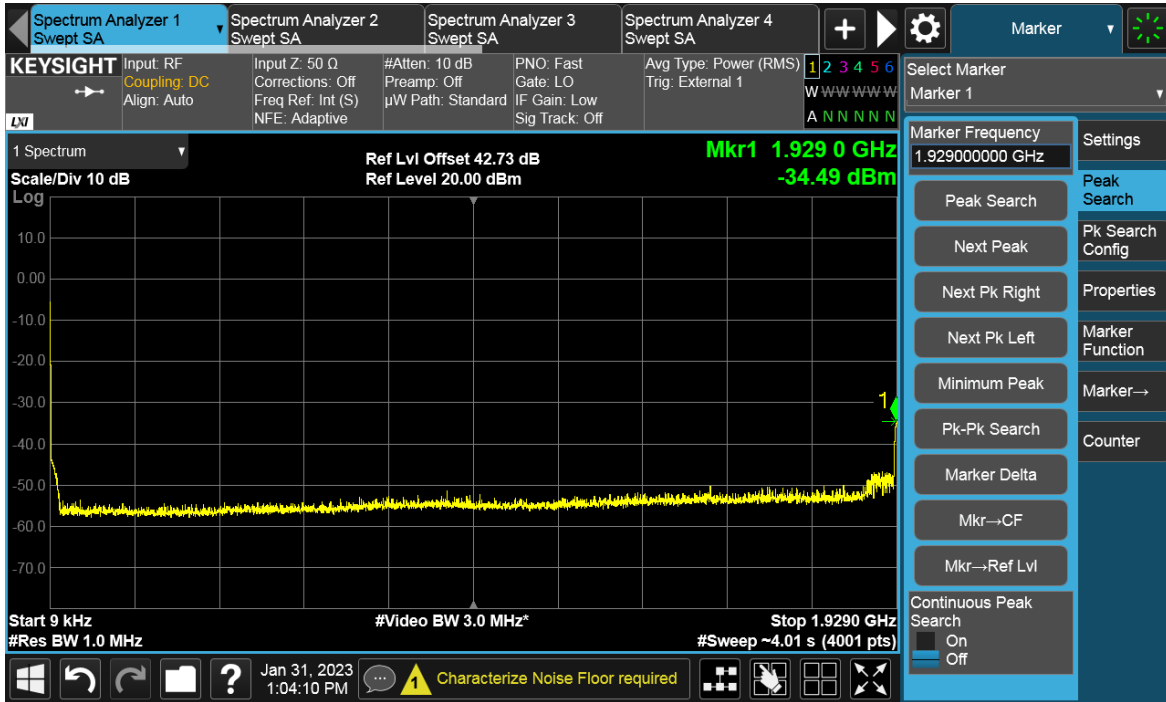


Total Quality. Assured.

## TEST REPORT

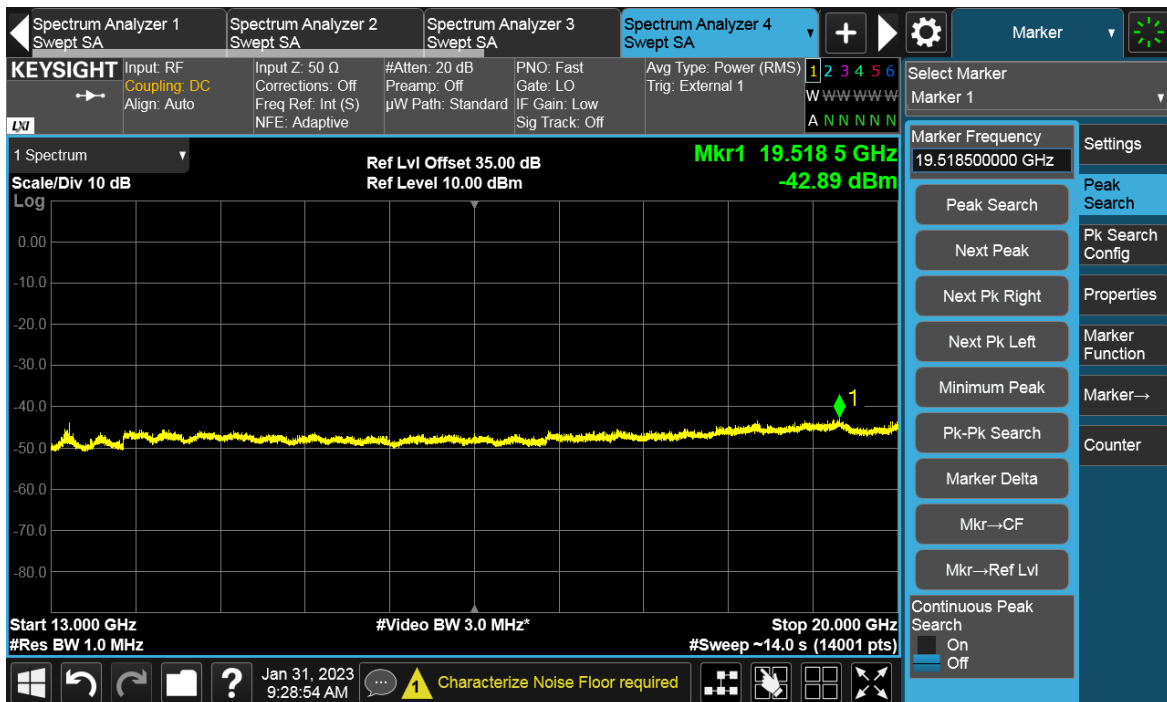
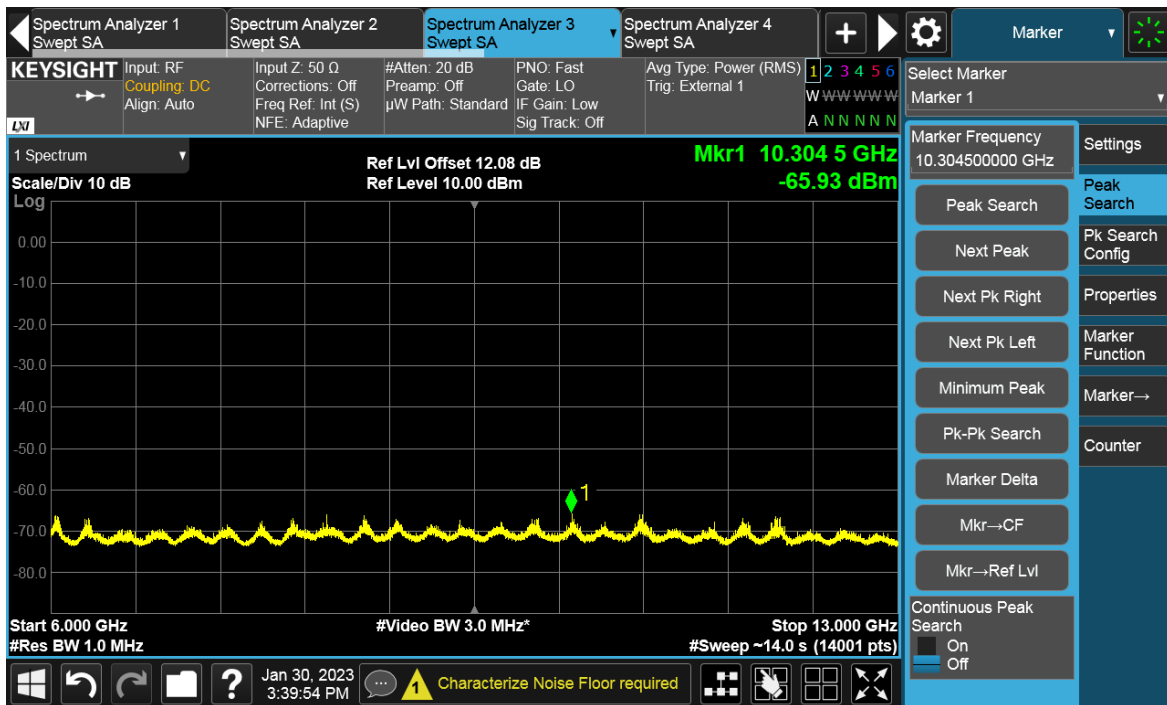


### Channel Position T



Total Quality. Assured.

## TEST REPORT

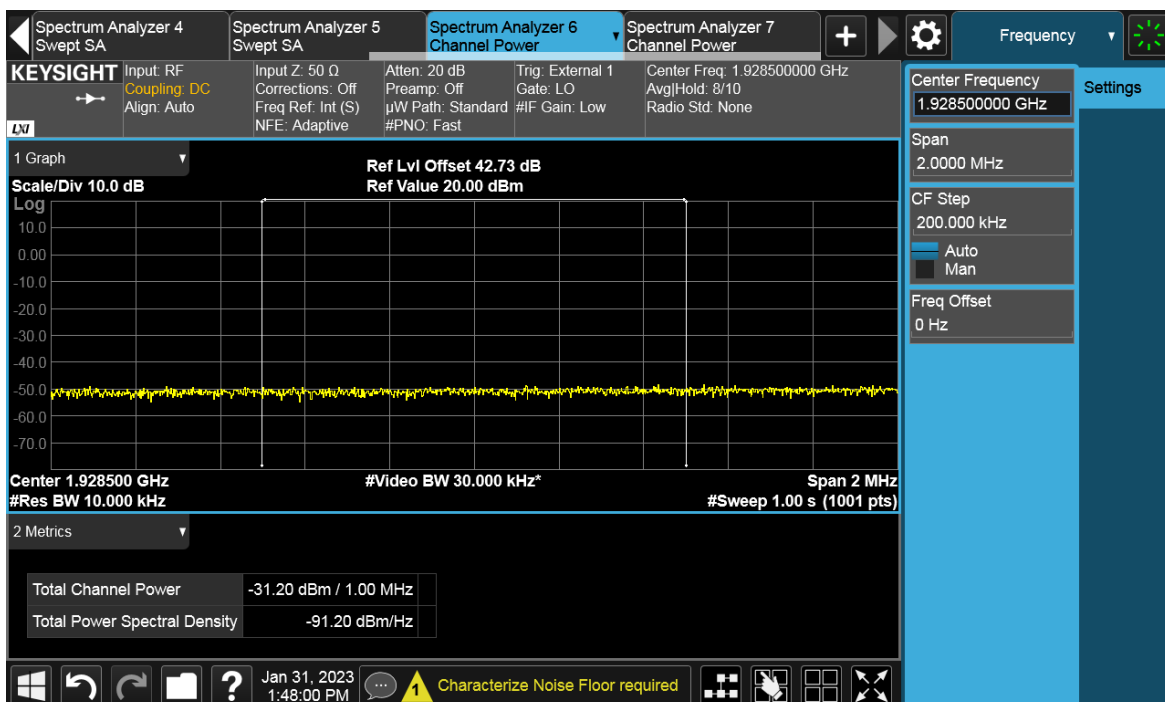
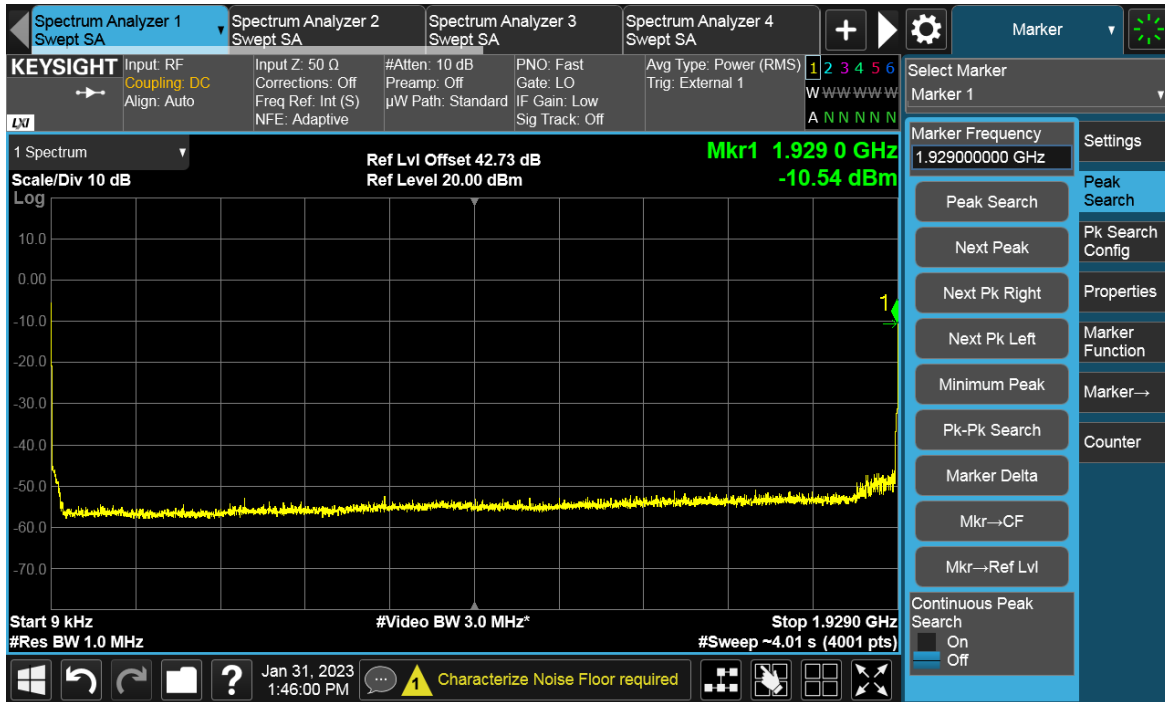




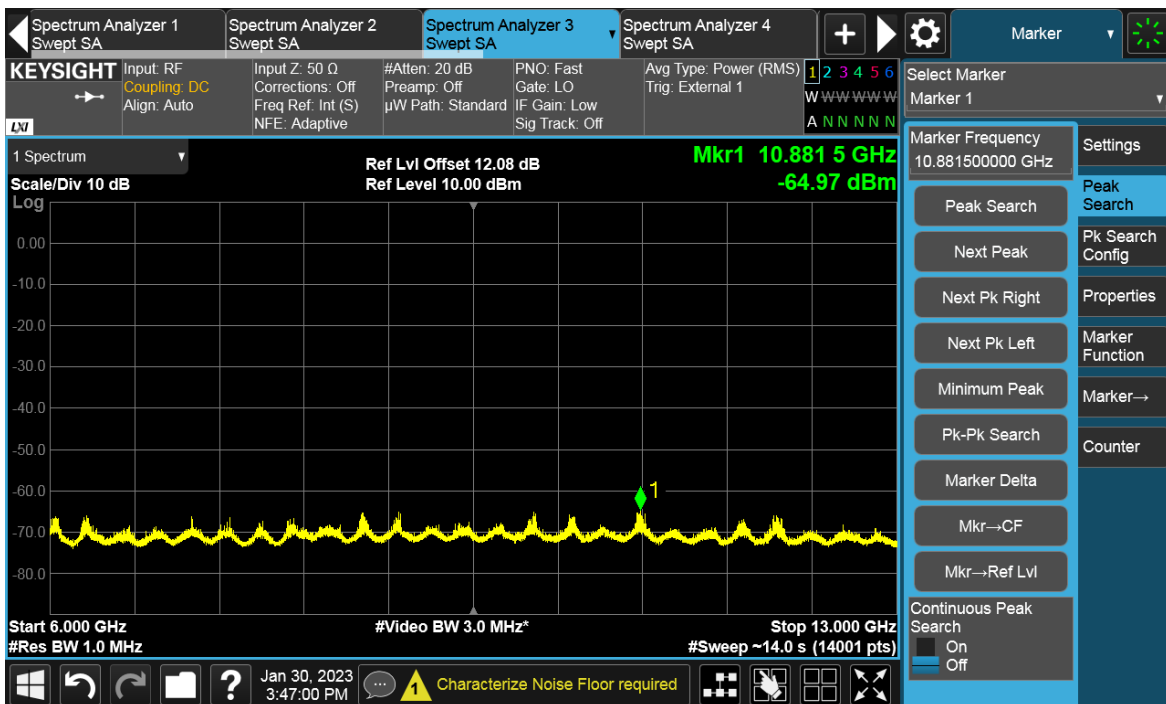
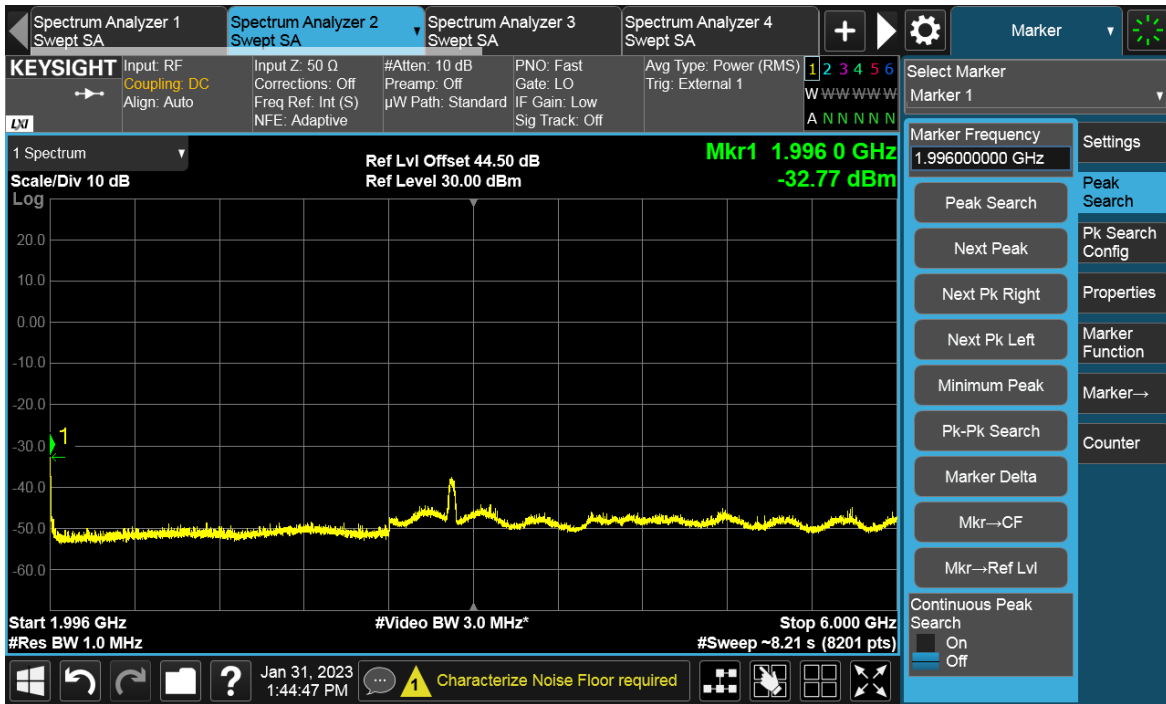
## TEST REPORT

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
A	B	256QAM	30	1000	-19.02
A	M	256QAM	30	1000	-19.02
A	T	256QAM	30	1000	-19.02

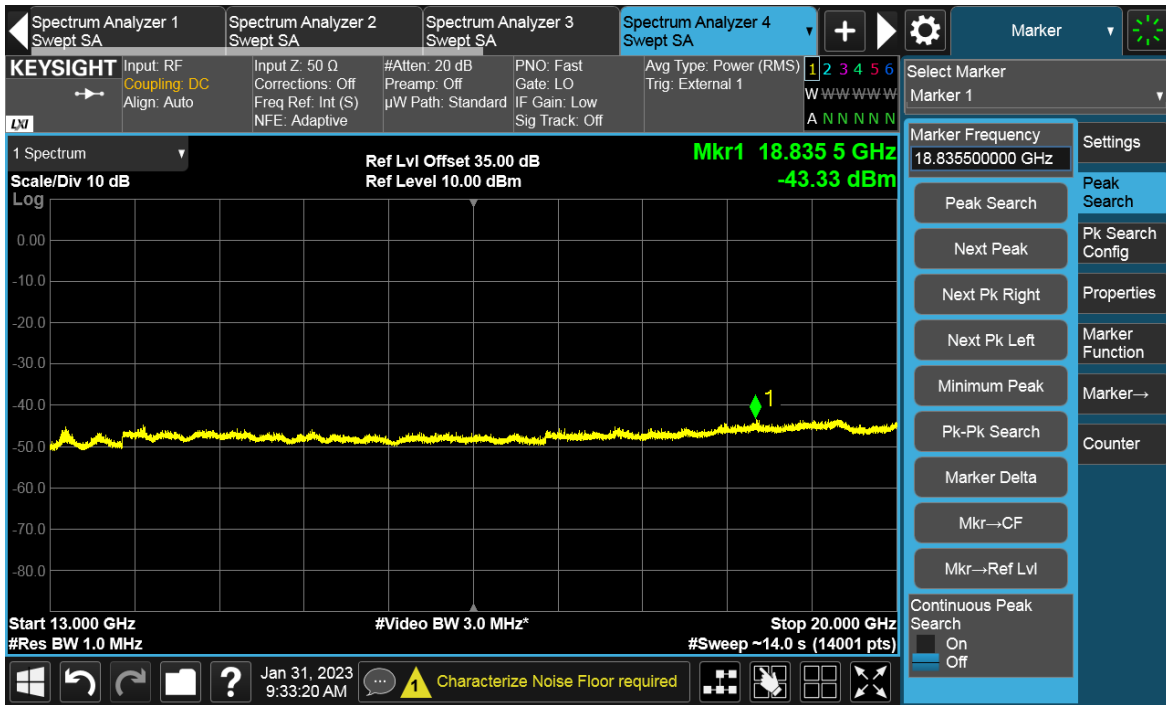
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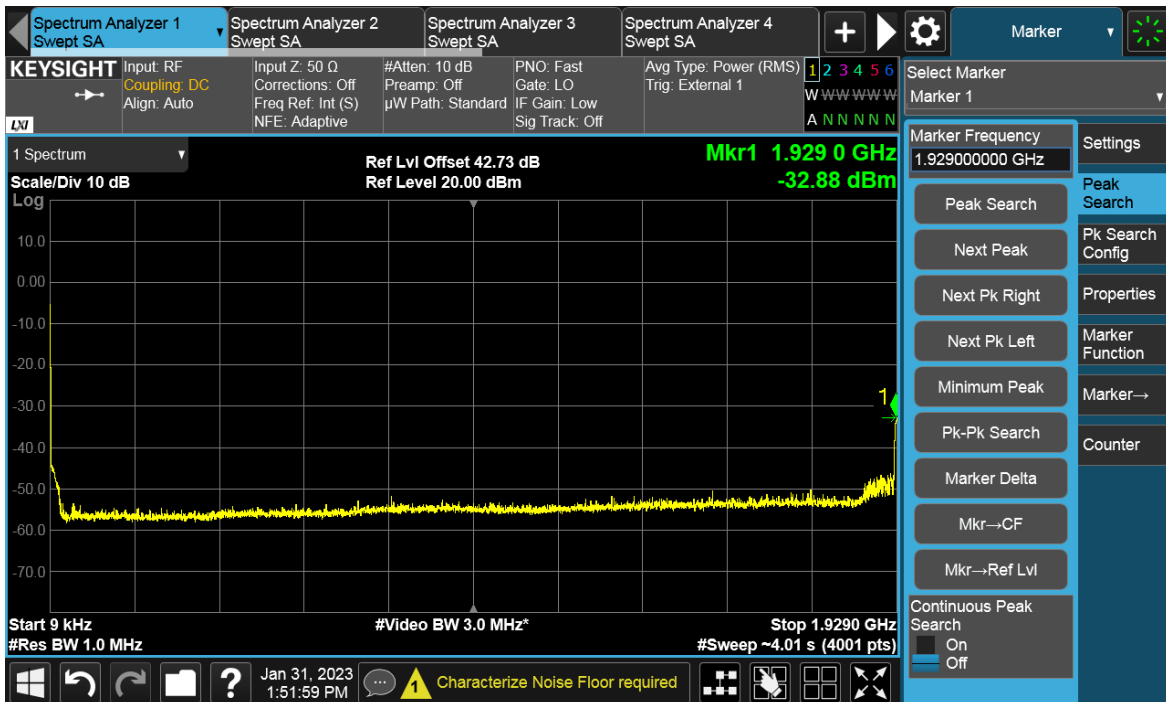
## TEST REPORT



## TEST REPORT

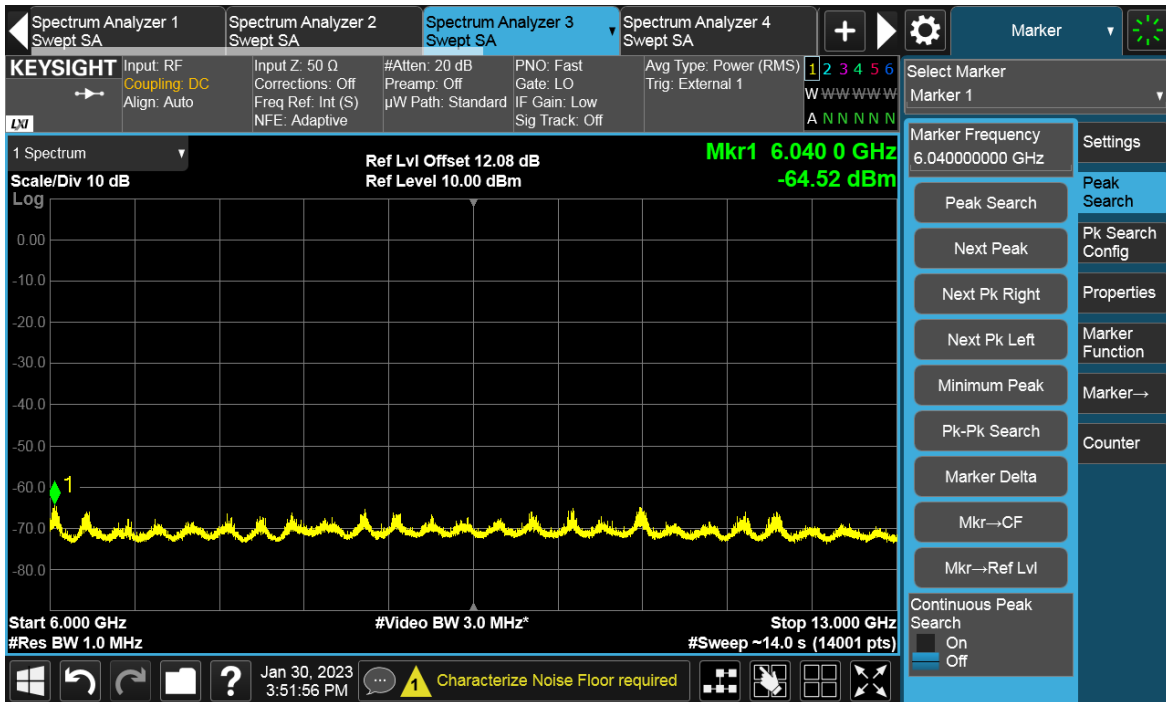
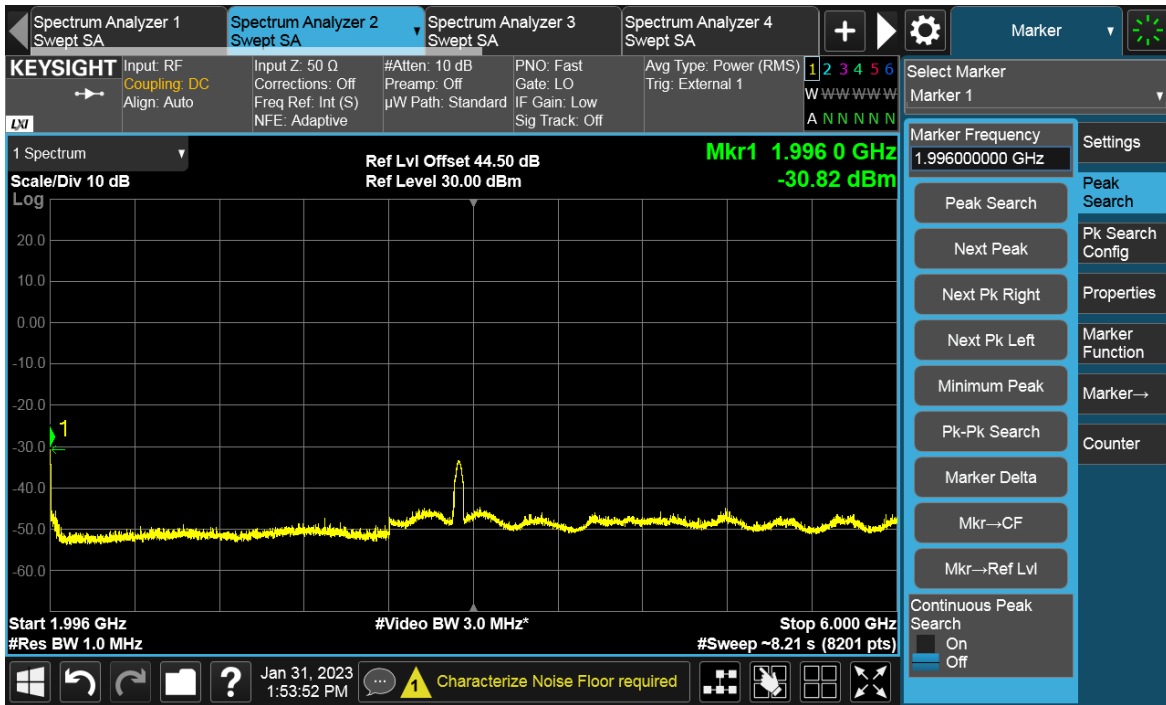


### Channel Position M



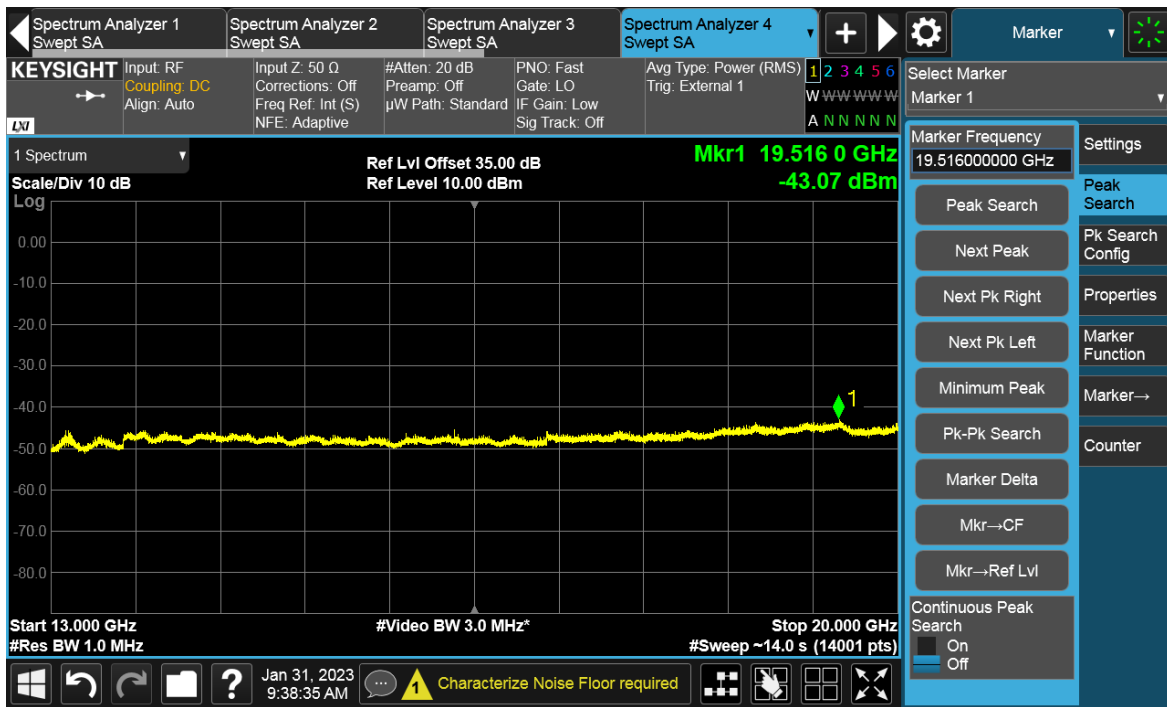
Total Quality. Assured.

## TEST REPORT

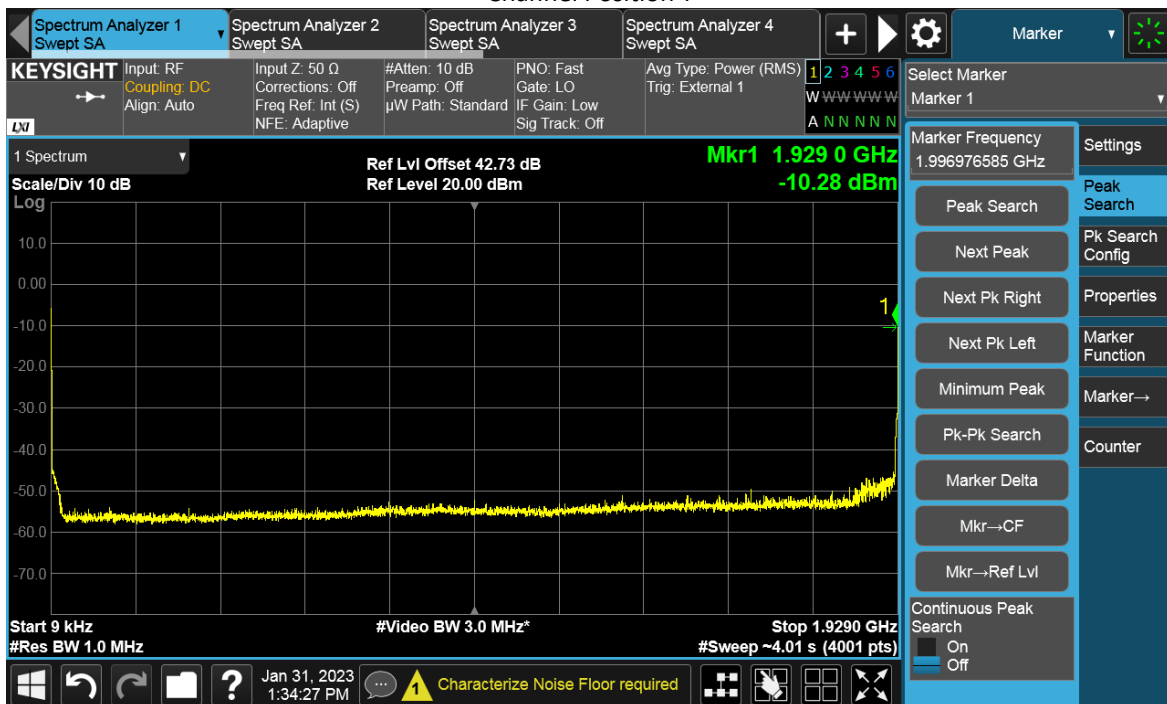


Total Quality. Assured.

## TEST REPORT

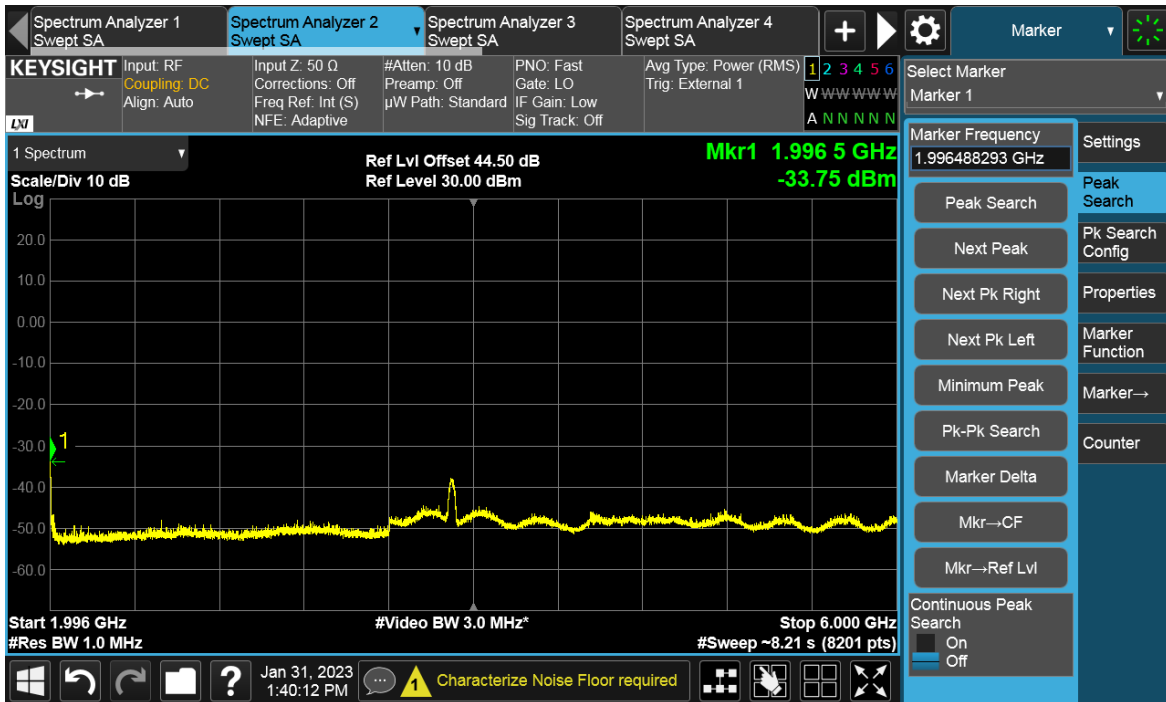
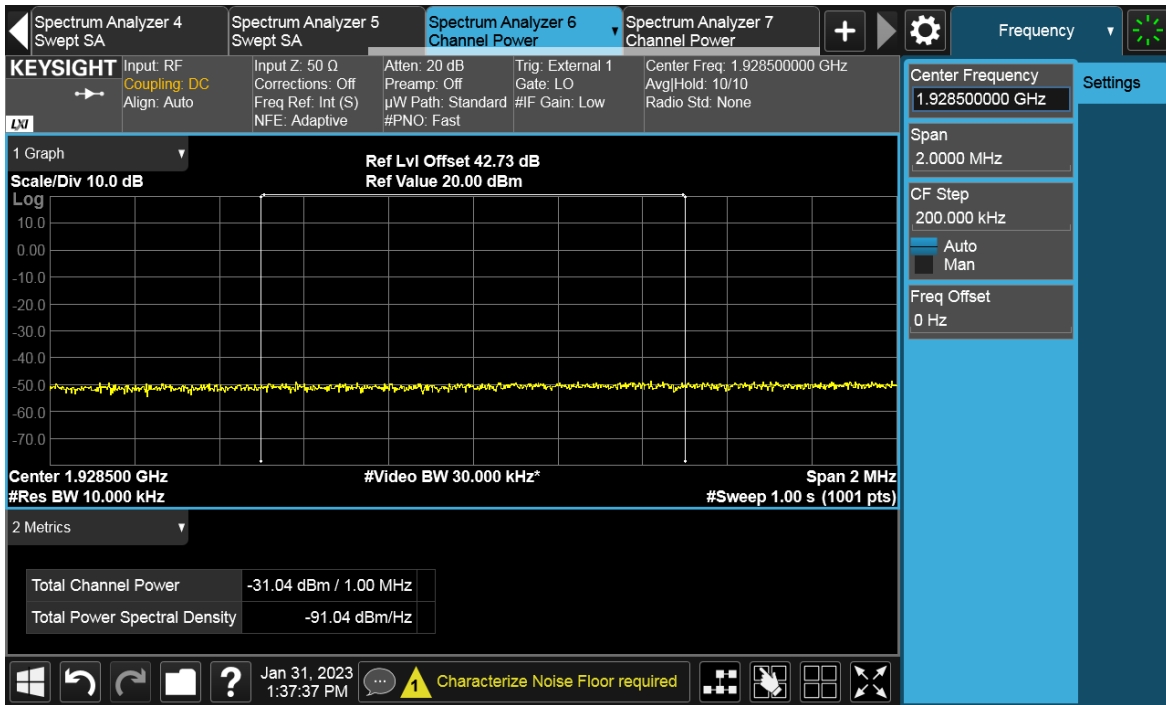


### Channel Position T



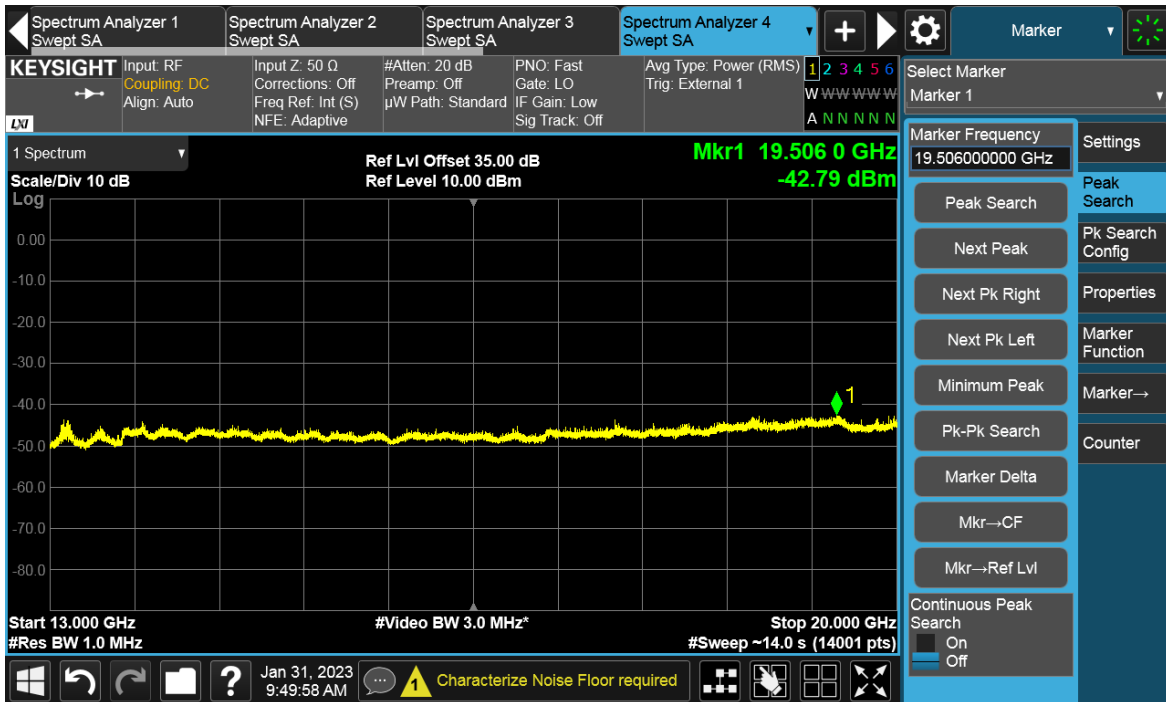
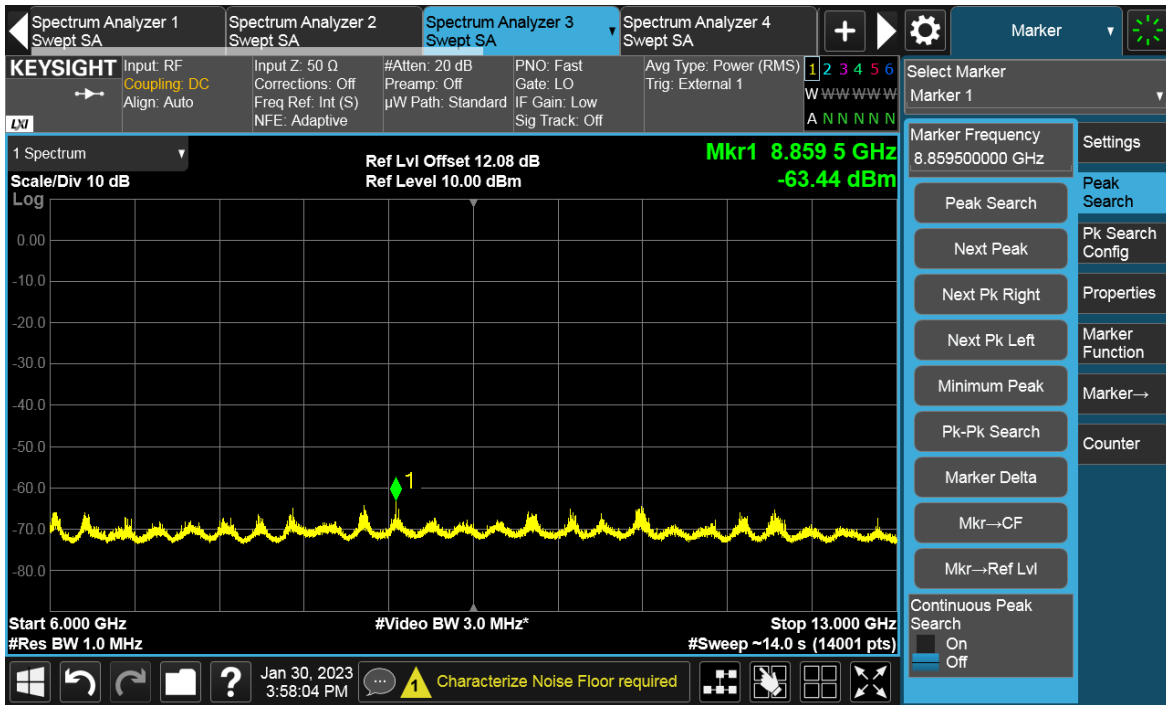
Total Quality. Assured.

## TEST REPORT



Total Quality. Assured.

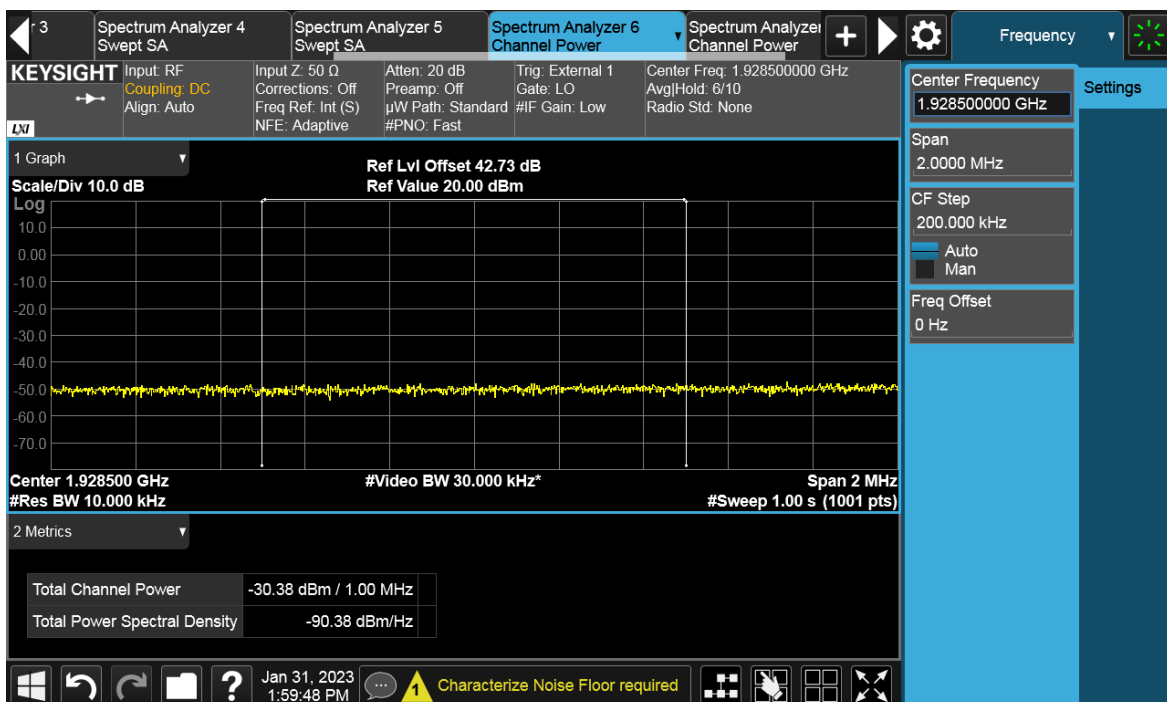
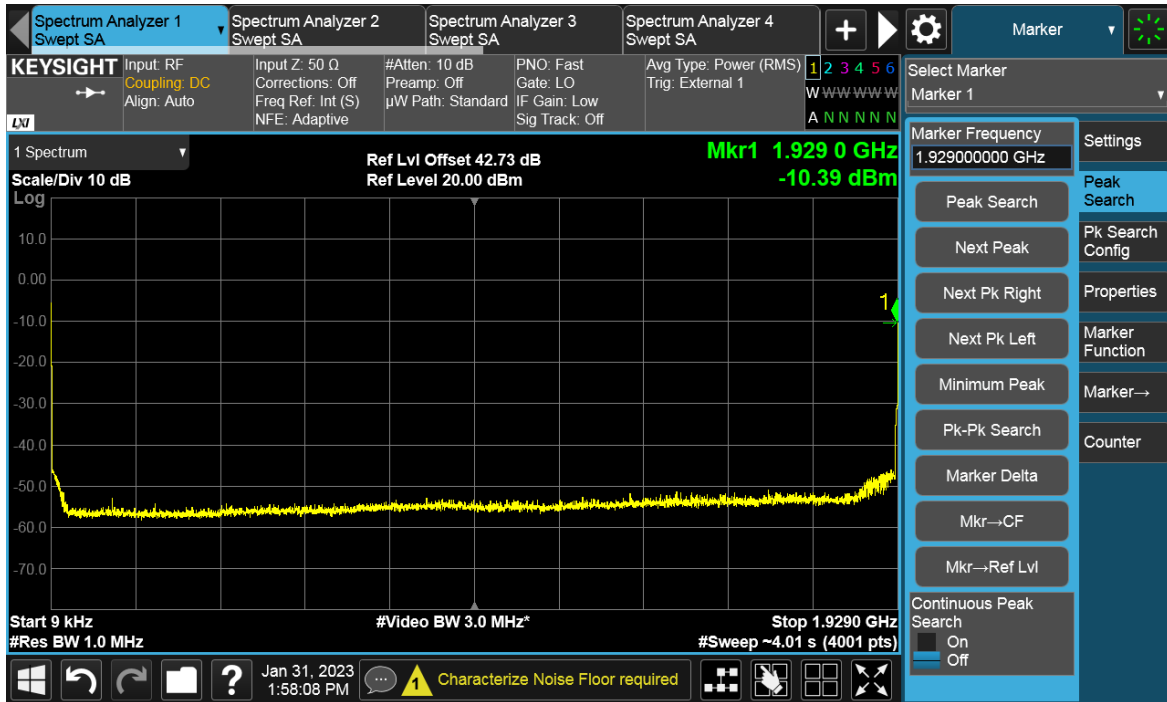
## TEST REPORT



## TEST REPORT

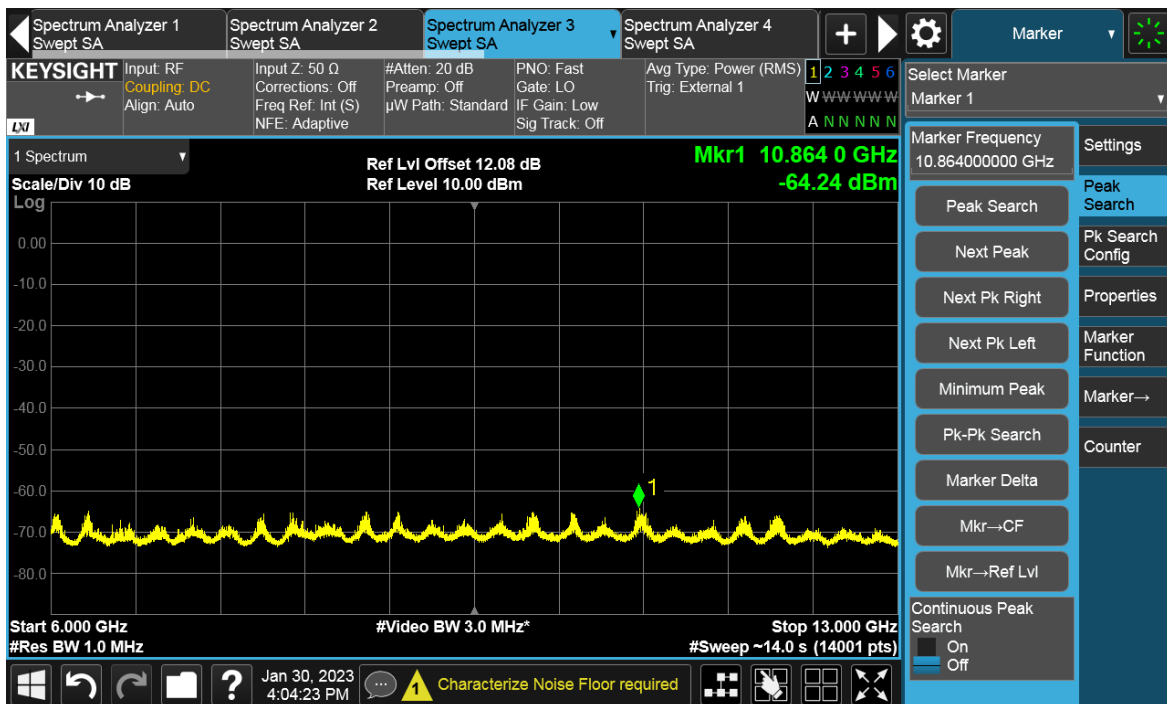
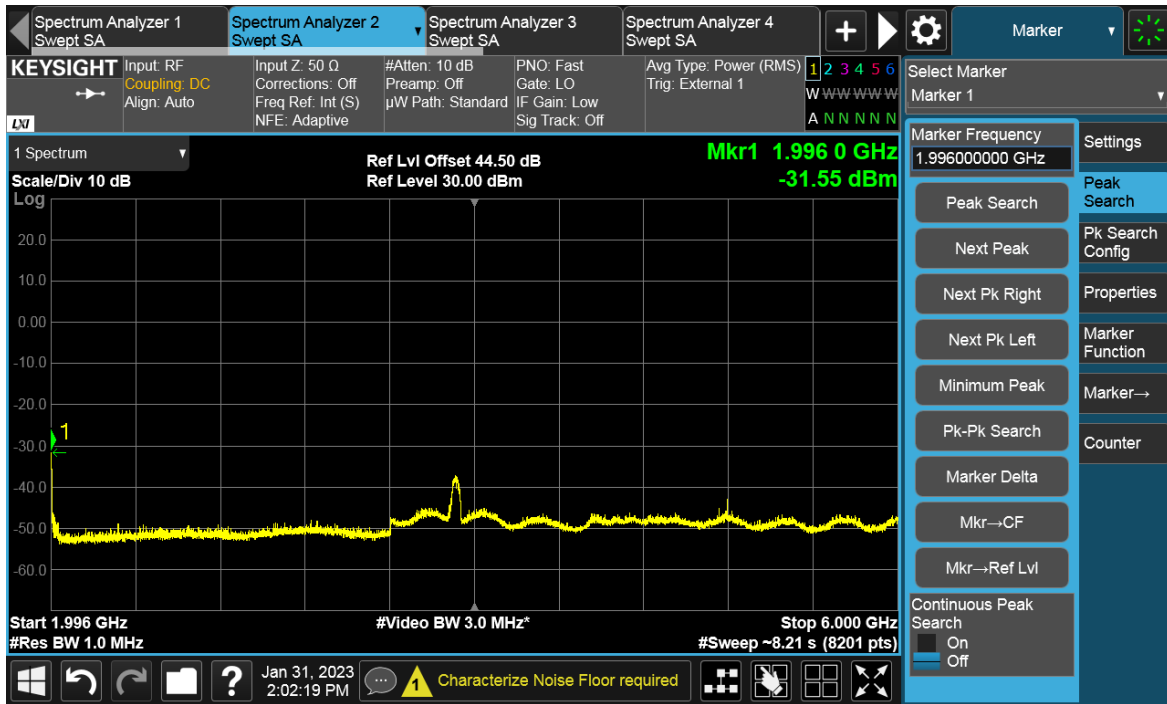
Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
A	B	256QAM	40	1000	-19.02
A	M	256QAM	40	1000	-19.02
A	T	256QAM	40	1000	-19.02

### Channel Position B



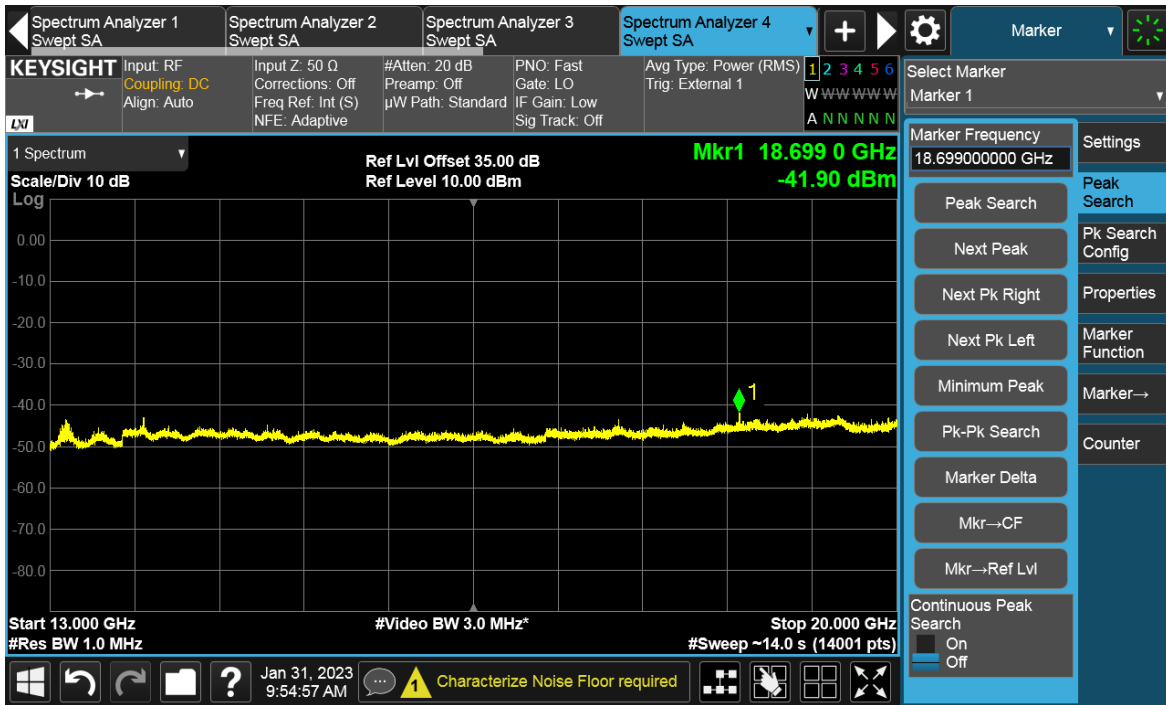


## TEST REPORT

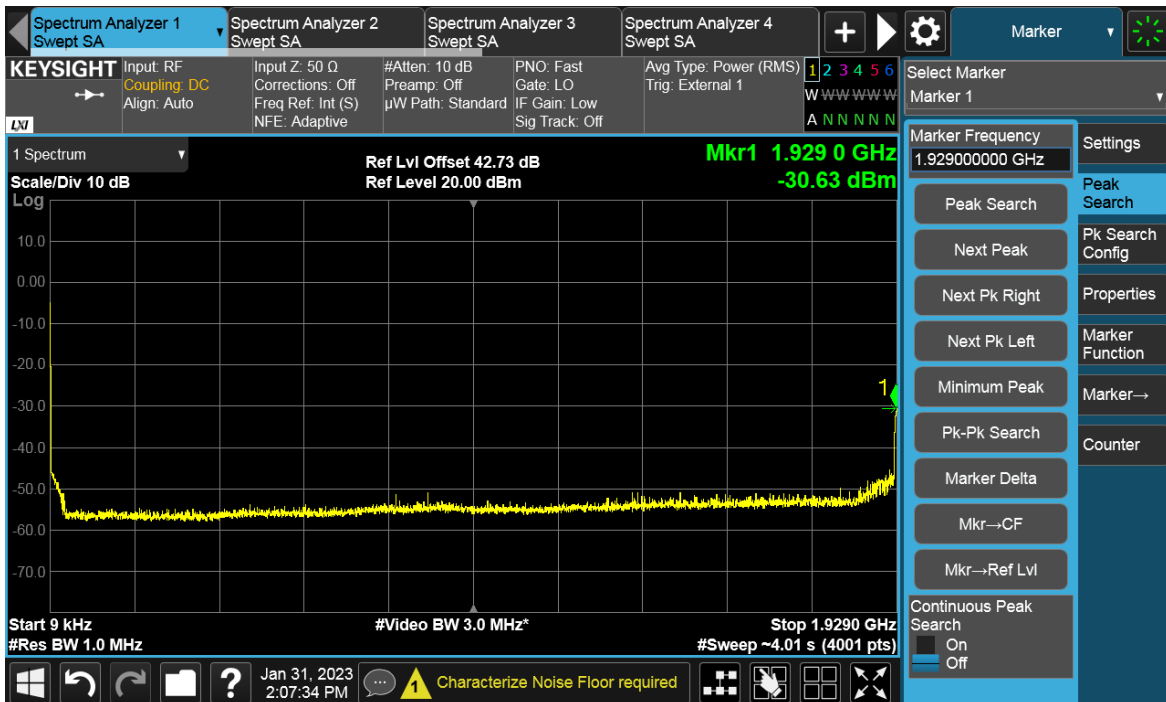


Total Quality. Assured.

## TEST REPORT

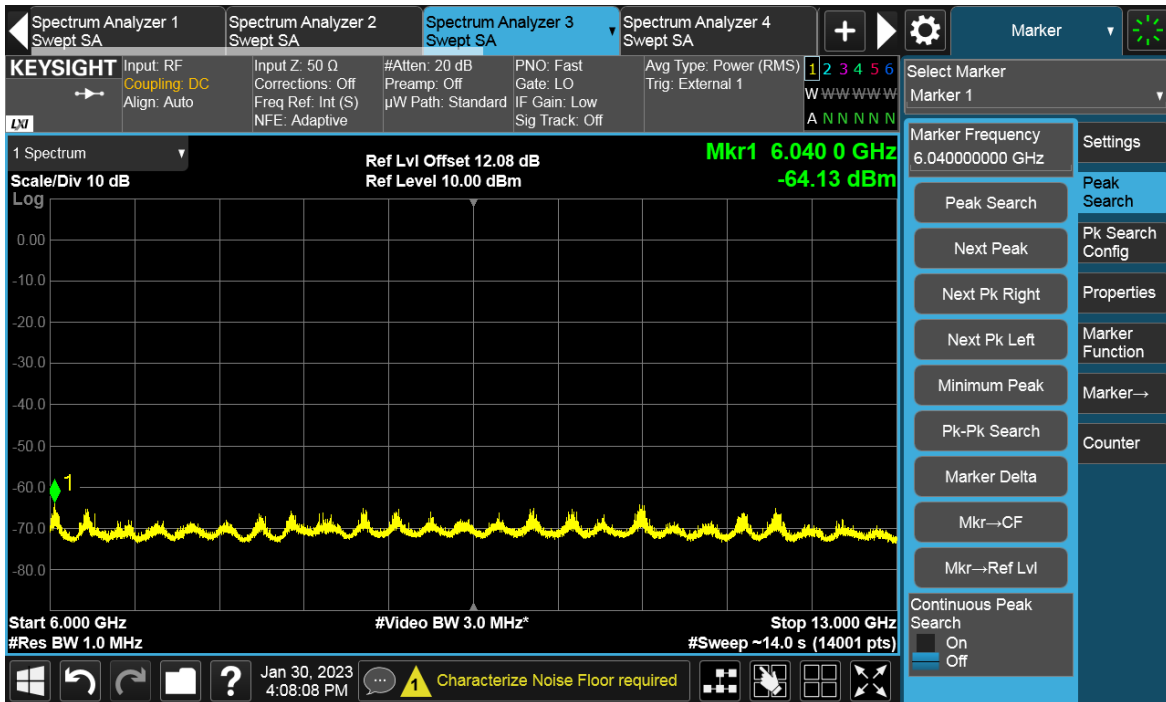
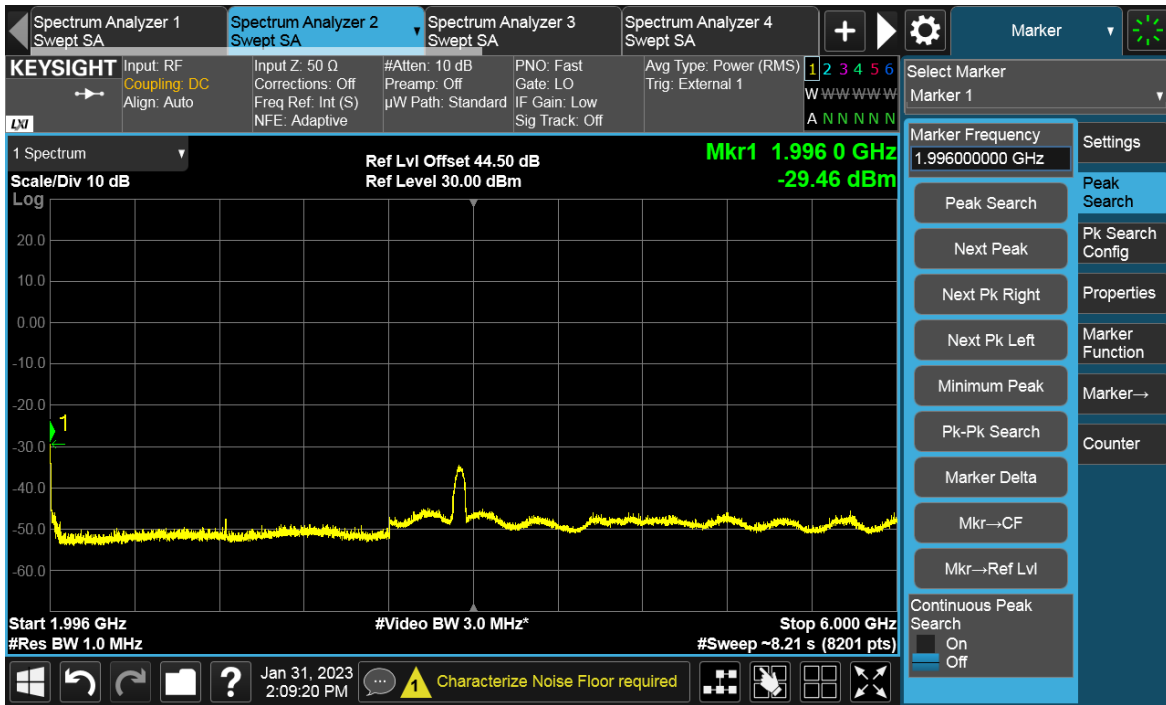


### Channel Position M

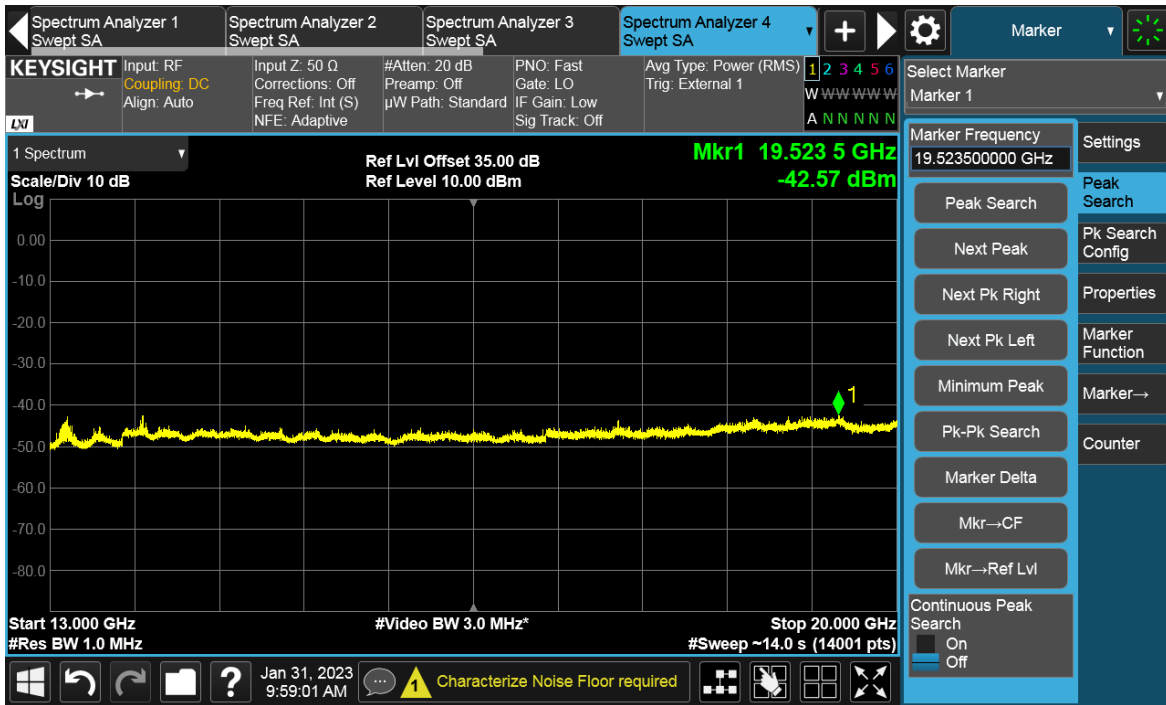


Total Quality. Assured.

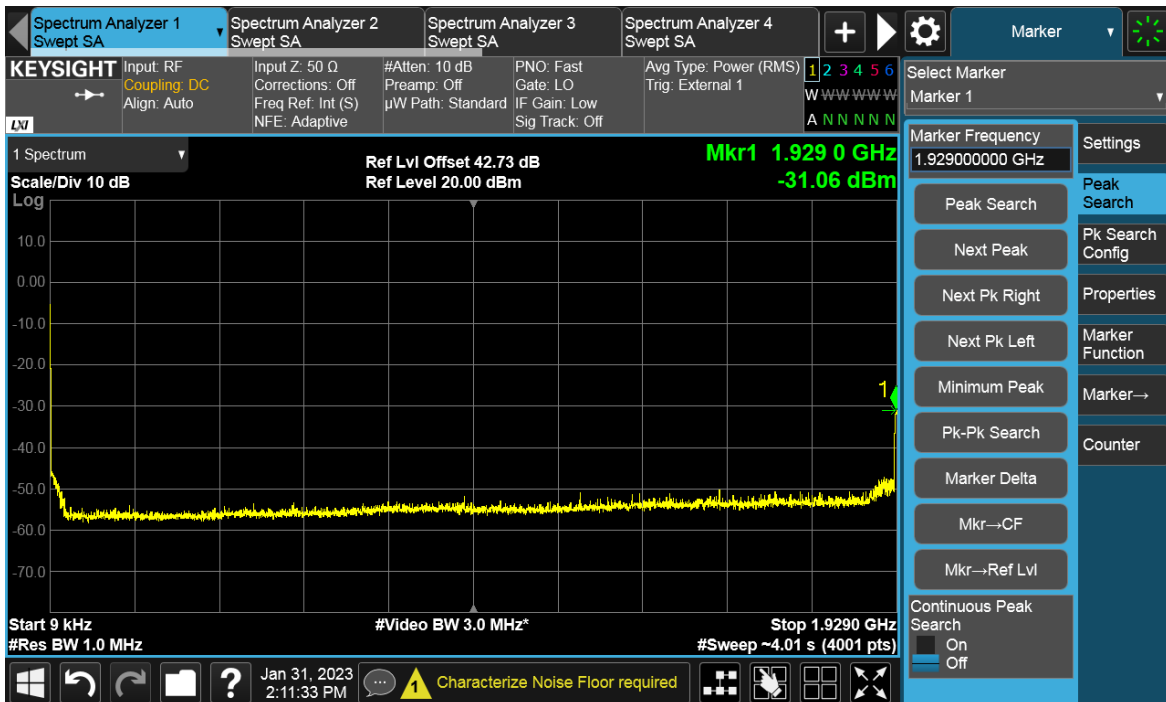
## TEST REPORT



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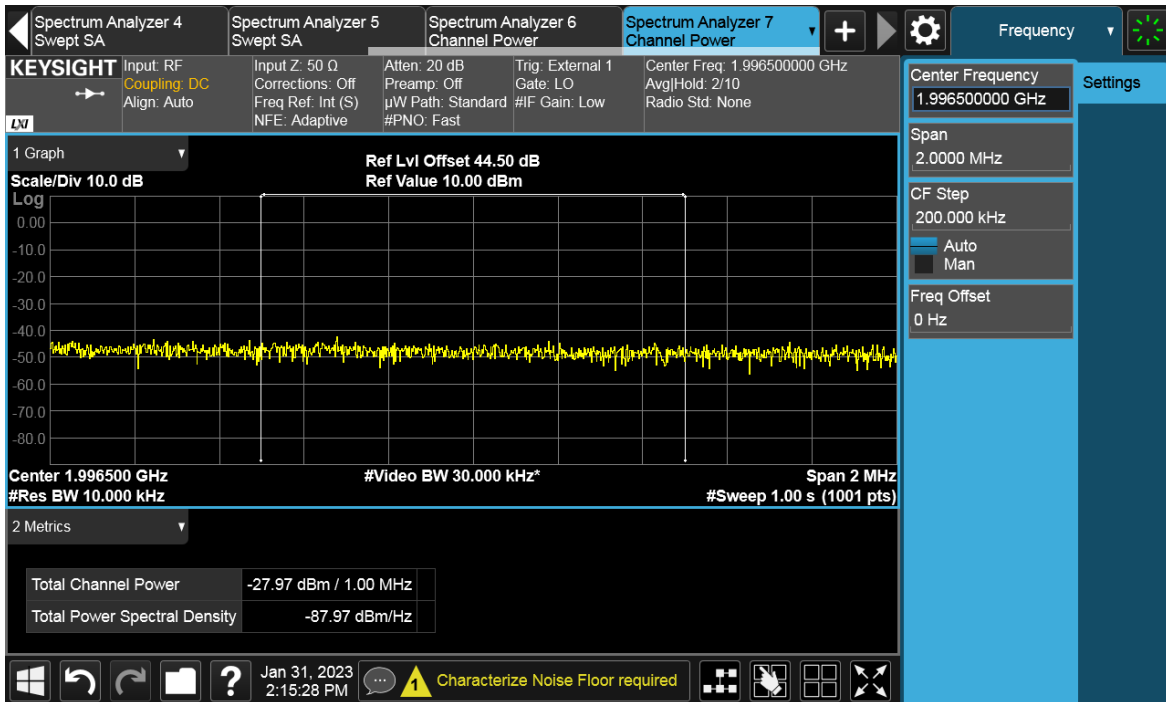
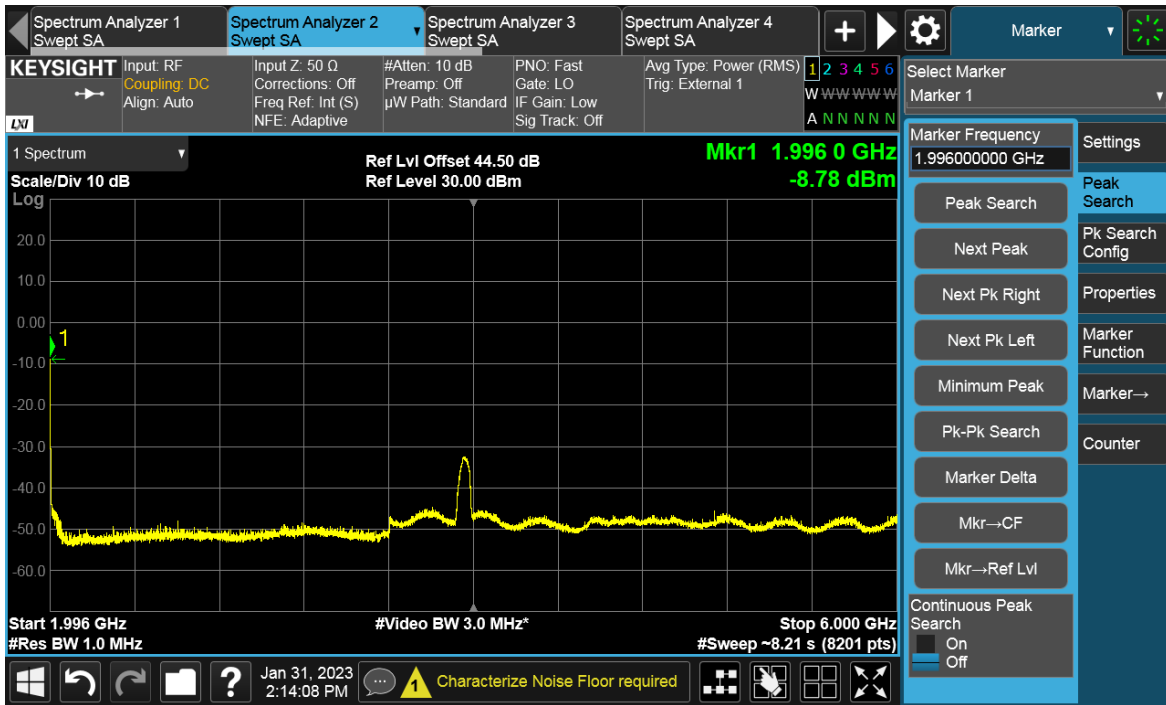


### Channel Position T



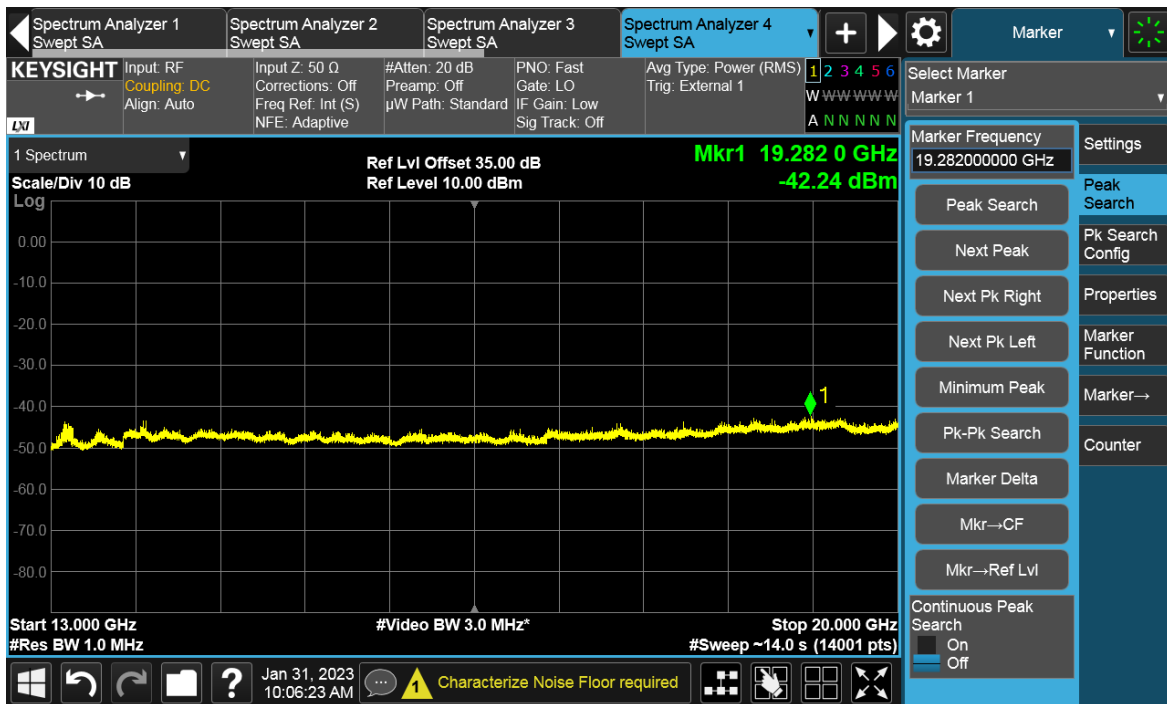
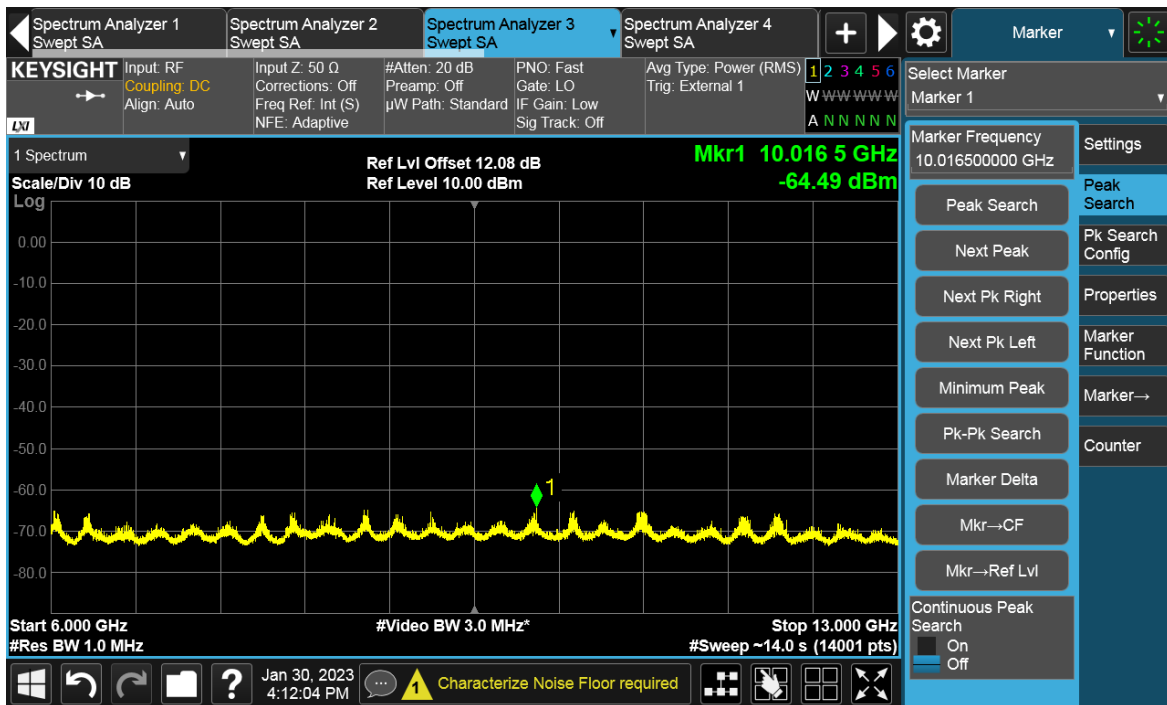
Total Quality. Assured.

## TEST REPORT



Total Quality. Assured.

## TEST REPORT



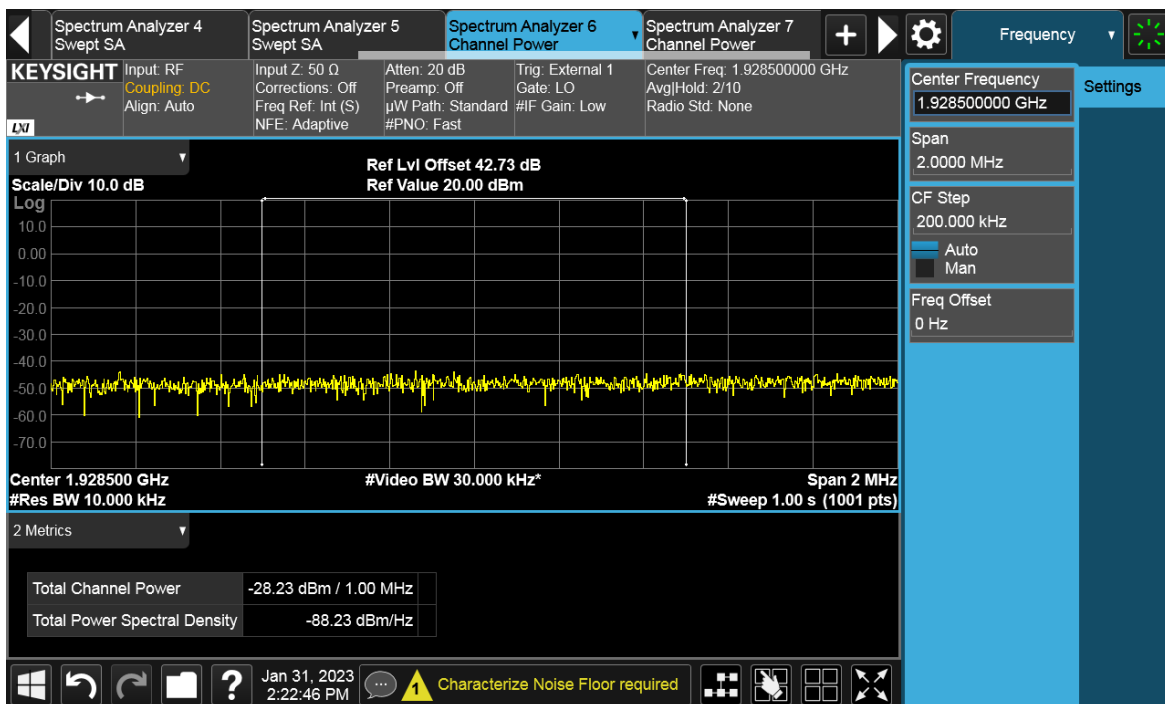
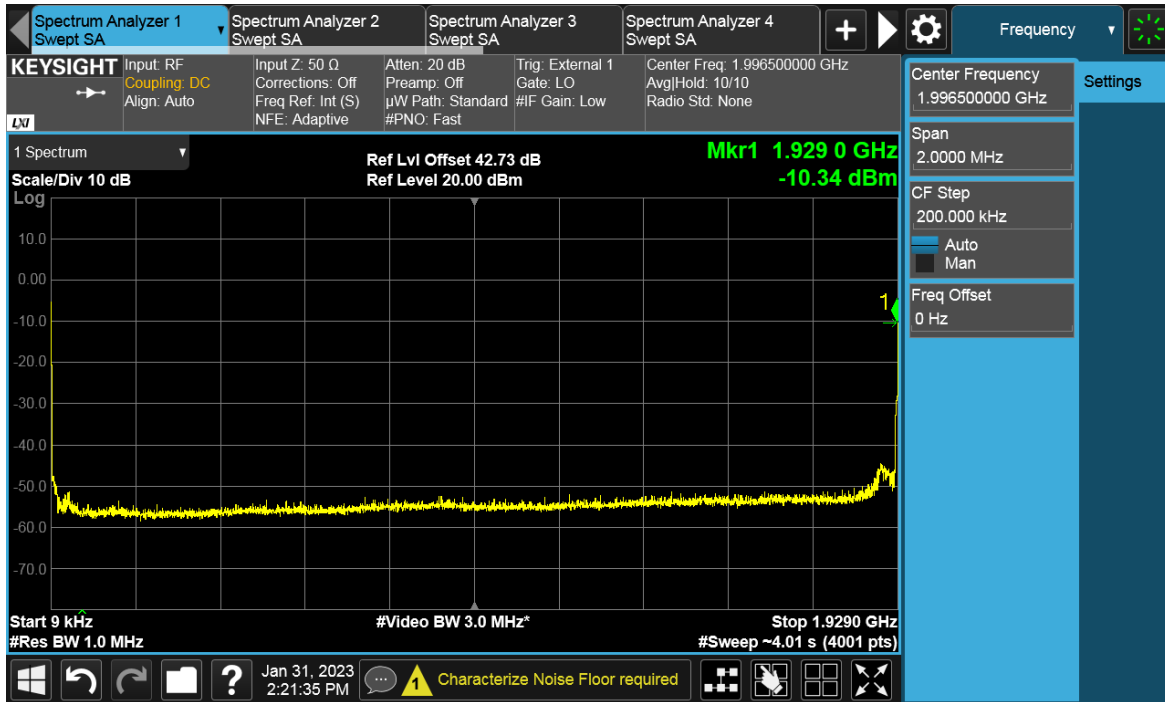
Total Quality. Assured.

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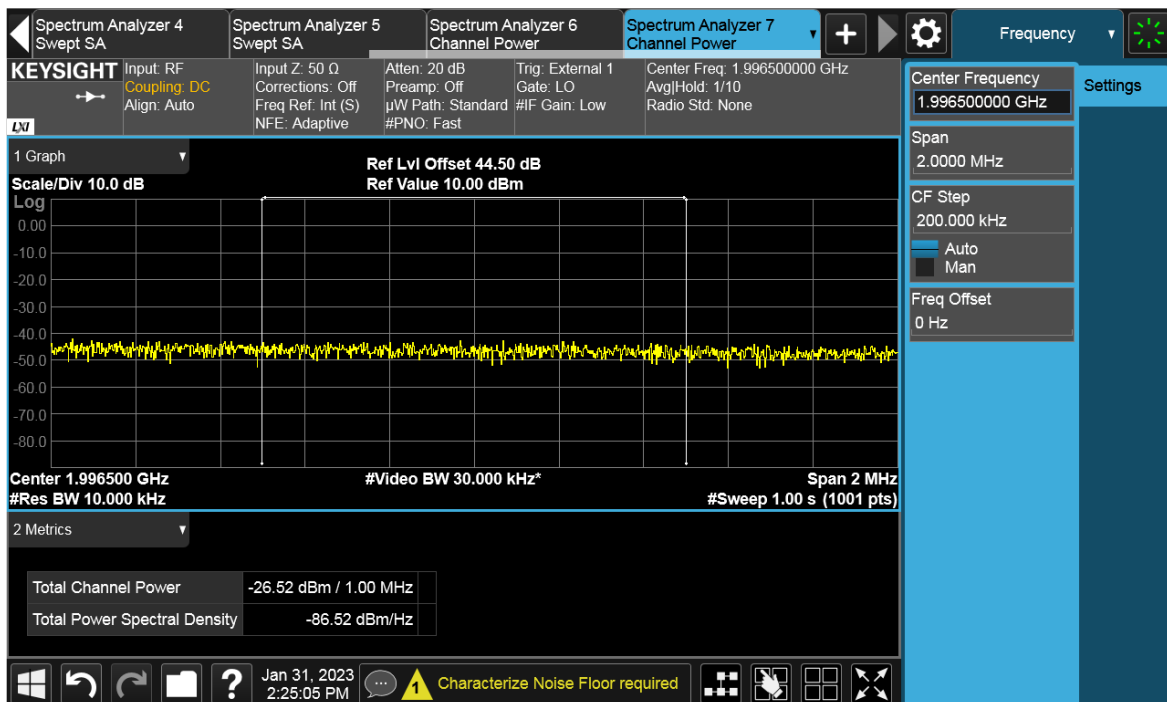
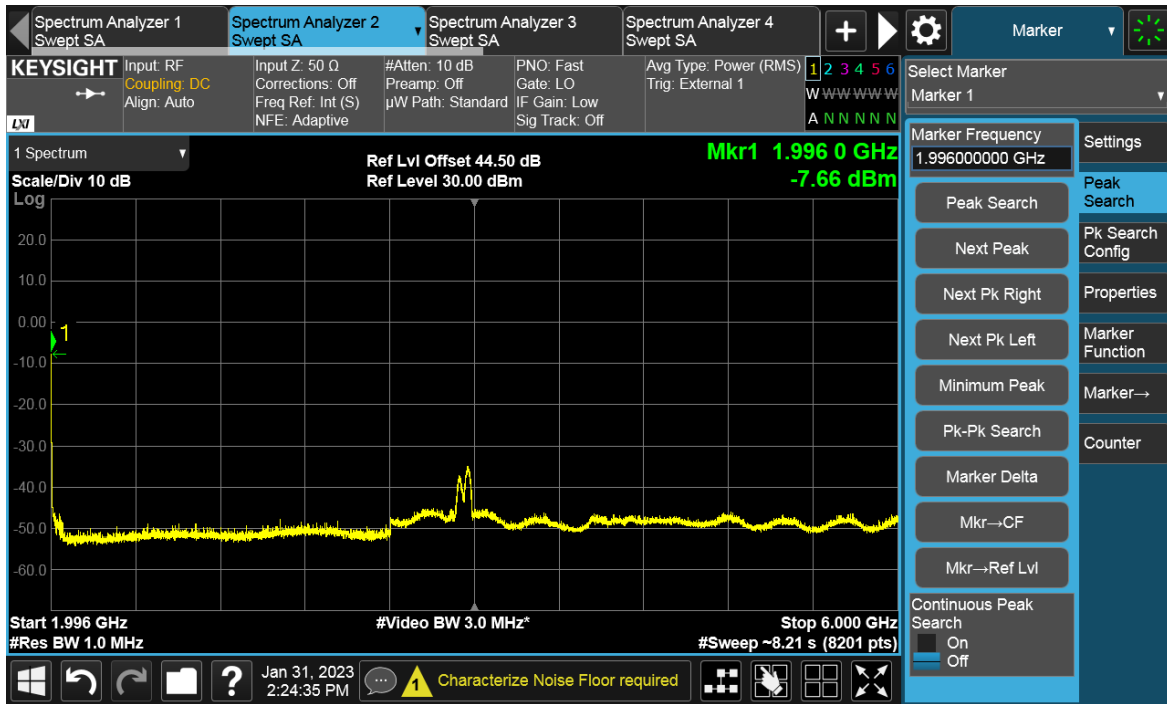
NR-2C

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
A	M	256QAM	25	1000	-19.02

### Channel Position M



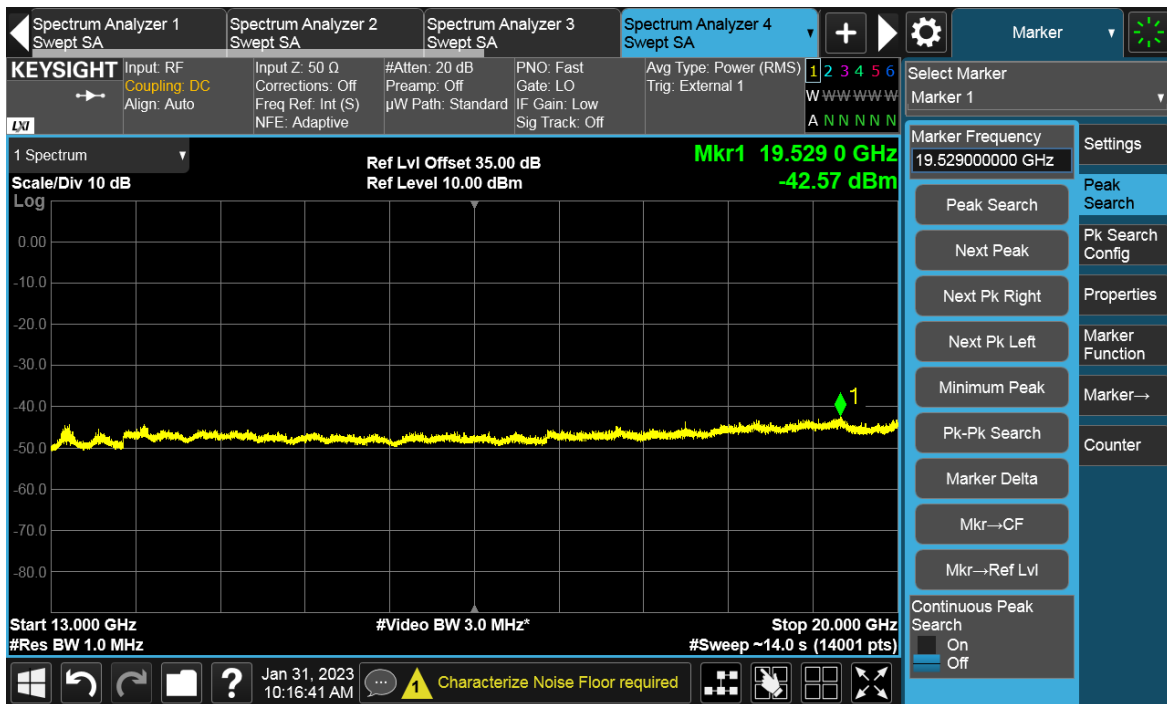
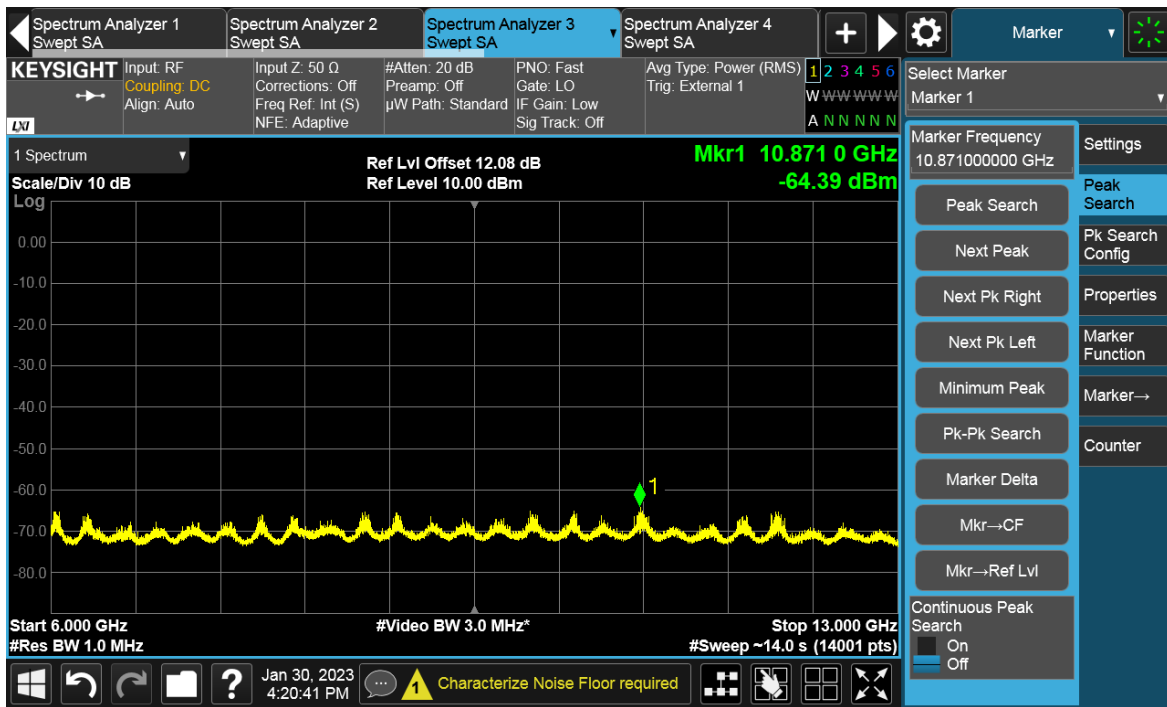
## TEST REPORT





Total Quality. Assured.

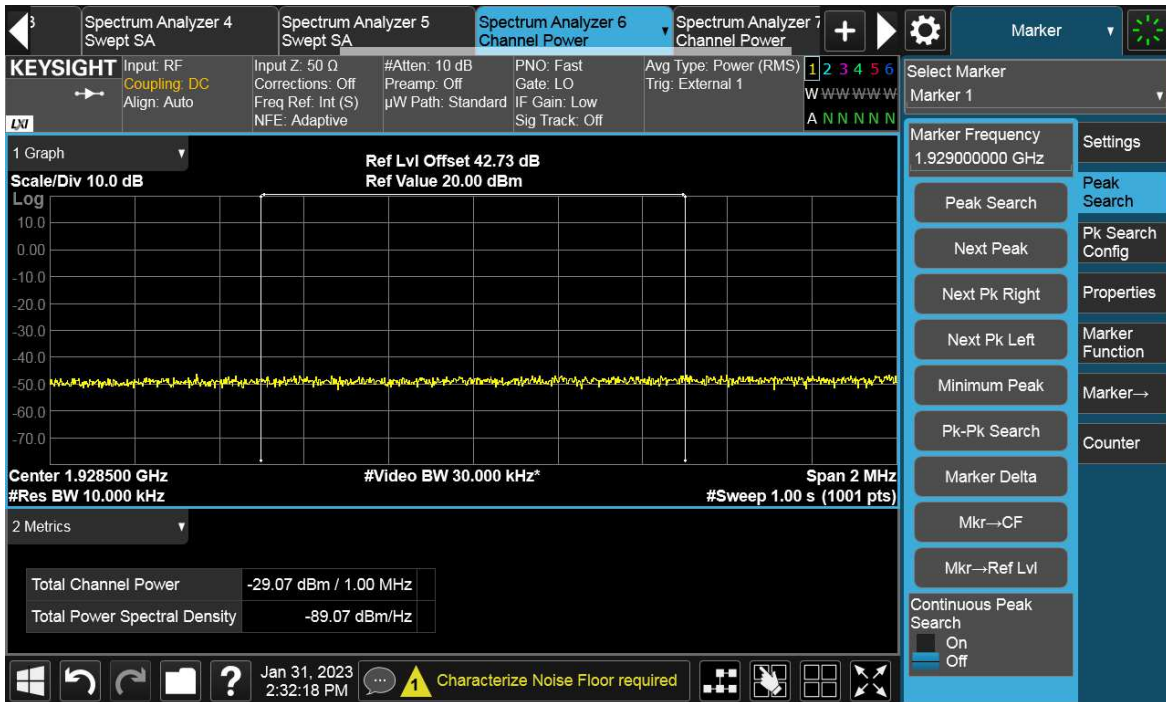
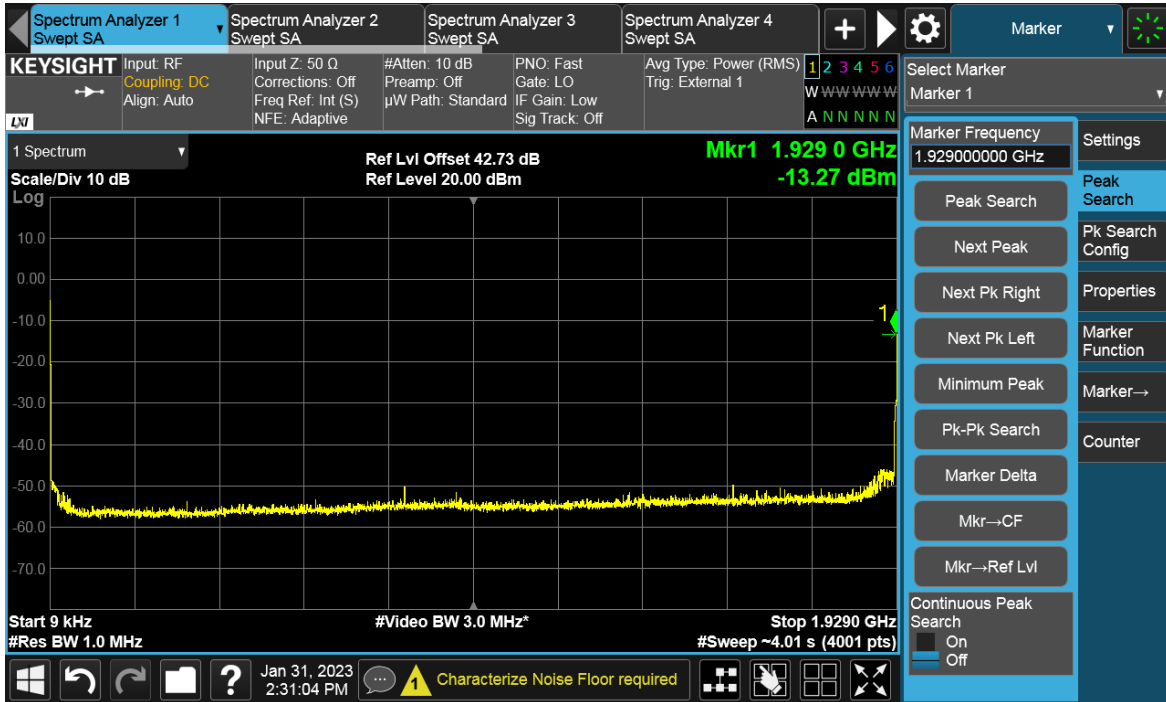
## TEST REPORT



## TEST REPORT

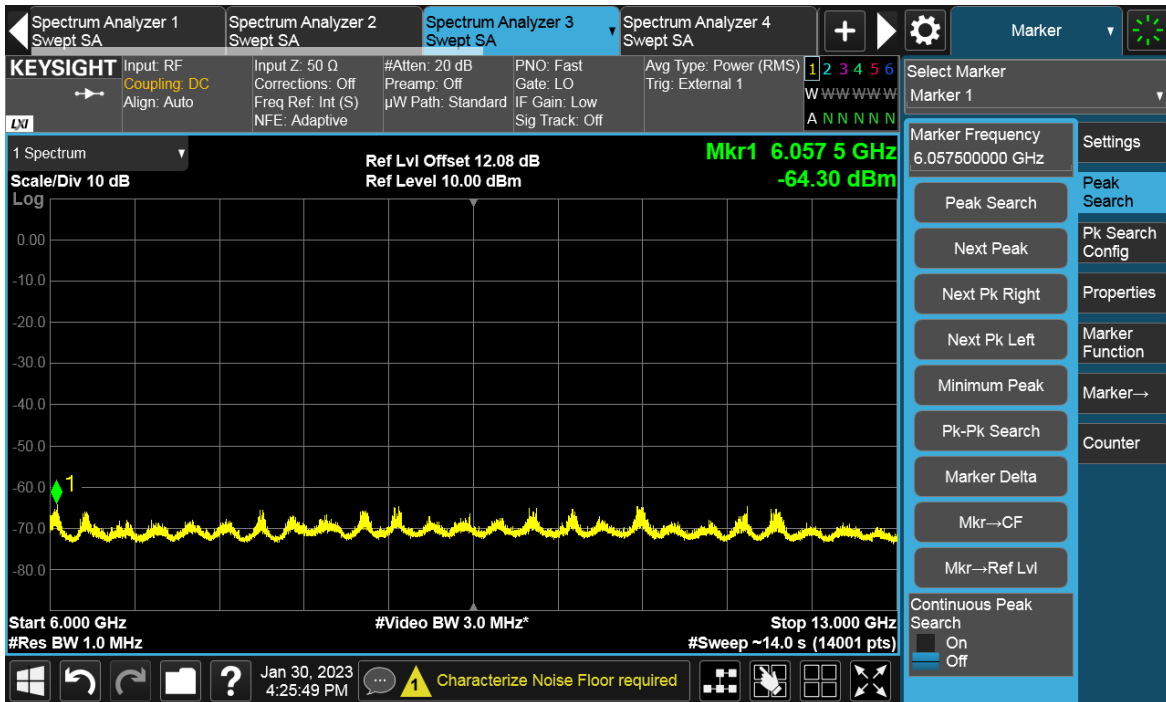
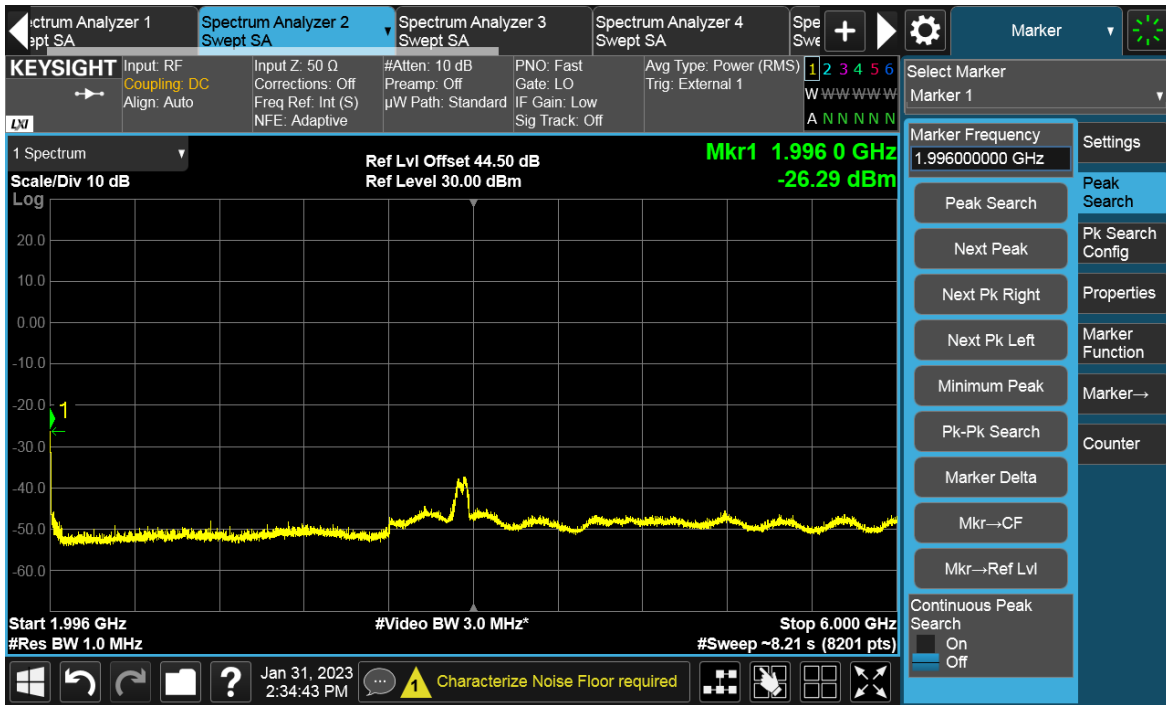
Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
A	M	256QAM	30	1000	-19.02

### Channel Position M



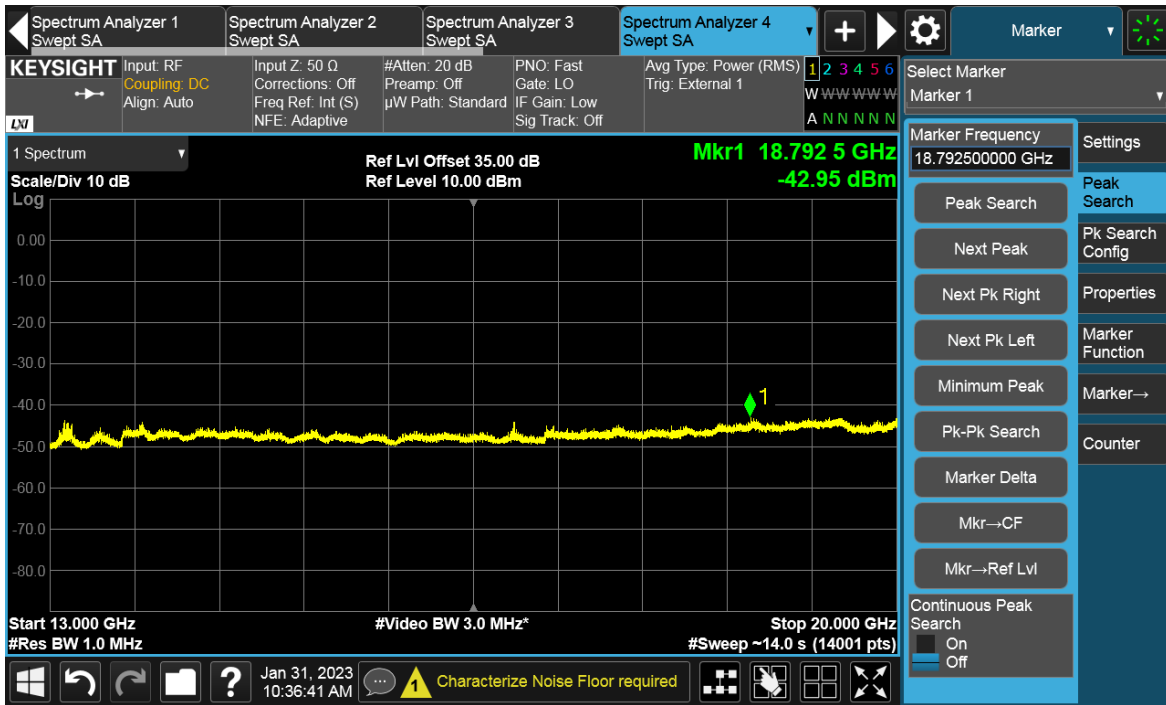
Total Quality. Assured.

## TEST REPORT



Total Quality. Assured.

## TEST REPORT



**TEST REPORT****7 Frequency Stability****Test result:      Tested****7.1 Limit**

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

**7.2 Measurement Procedure****Temperature Variation**

The EUT was tested over the temperature range -30°C to +50°C in 10°C steps with -48 VDC Power Supply. At each temperature step, the Base Station was configured to transmit at maximum power on the middle channel of the operating band.

**Voltage Variation**

The EUT was tested at the supplied voltages varied from 85 to 115 percent of the nominal values of -48 VDC. At +20°C, the Base Station was configured to transmit at maximum power on the middle channel of the frequency block.

**TEST REPORT**

**7.3 Measurement result**

Frequency Error – Temperature Variation

NR-1C, Channel Bandwidth: 40MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
A	256QAM	-30	0.33	0.31	0.75
		-20	0.21	0.43	0.26
		-10	0.22	0.70	0.52
		0	0.27	0.25	0.13
		10	0.11	0.36	0.19
		20	0.28	0.45	0.28
		30	0.30	0.50	0.11
		40	0.15	0.06	0.14
		50	0.29	0.62	0.38

Frequency Error – Voltage Variation

NR-1C, Channel Bandwidth: 40MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
A	256QAM	20	-40.8	0.07	0.48	0.59
			-48.0	0.28	0.45	0.28
			-55.2	0.18	0.60	0.47

\*\*\*\*\* END \*\*\*\*\*