

# BAND EDGE COMPLIANCE BAND 25



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

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	19-Mar-19	19-Mar-20
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

All limits were adjusted by a factor of  $[-10 \cdot \log(4)]$  dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per FCC 24.238(a) and RSS 133 6.5.1 . the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm  $[-13 \text{ dBm} - 10 \log(4)]$  per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 24.238(b) and RSS 133 6.5.1 (i), emissions seen up to 1 MHz outside of authorized operating frequency range band edges shall be measured with a RBW of 1% of the measured emission bandwidth. Any emission seen to be > 1 MHz further outside the band edges shall be measured with a RBW of 1 MHz. However, a narrower RBW of at least 1% of the emission bandwidth is still allowed provided that the measured power is integrated over the full reference bandwidth of 1 MHz.

# BAND EDGE COMPLIANCE BAND 25



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EUT: AHFIA		Work Order: NOKI0008	
Serial Number: K9174623559		Date: 18-Feb-20	
Customer: Nokia of America Corporation		Temperature: 22.4 °C	
Attendees: Mitch Hill, John Rattanavong		Humidity: 45.5% RH	
Project: None		Barometric Pres.: 1018 mbar	
Tested by: Brandon Hobbs		Power: 54VDC	
Job Site: TX09			
<b>TEST SPECIFICATIONS</b>			
FCC 24E:2020		Test Method	
RSS-133:2018		ANSI C63.26:2015	
		RSS-133:2018	
<b>COMMENTS</b>			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The data was taken while using the highest output power port which was found in the original client provided test report.			
<b>DEVIATIONS FROM TEST STANDARD</b>			
None			
Configuration #	2	Signature	
		Value (dBm)	Limit (dBm) Result
5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4			
5 MHz Bandwidth			
QPSK Modulation			
Low Channel 1932.5 MHz			
Frequency Range 1		-21.19	-19 Pass
Frequency Range 2		-21.78	-19 Pass
Frequency Range 3		-22.67	-19 Pass
High Channel 1992.5 MHz			
Frequency Range 1		-21.35	-19 Pass
Frequency Range 2		-21.94	-19 Pass
Frequency Range 3		-22.61	-19 Pass
16-QAM Modulation			
Low Channel 1932.5 MHz			
Frequency Range 1		-23.09	-19 Pass
Frequency Range 2		-21.17	-19 Pass
Frequency Range 3		-22.35	-19 Pass
High Channel 1992.5 MHz			
Frequency Range 1		-19.66	-19 Pass
Frequency Range 2		-22.32	-19 Pass
Frequency Range 3		-22.56	-19 Pass
64-QAM Modulation			
Low Channel 1932.5 MHz			
Frequency Range 1		-21.22	-19 Pass
Frequency Range 2		-22.30	-19 Pass
Frequency Range 3		-22.46	-19 Pass
High Channel 1992.5 MHz			
Frequency Range 1		-22.05	-19 Pass
Frequency Range 2		-22.95	-19 Pass
Frequency Range 3		-22.69	-19 Pass
256-QAM Modulation			
Low Channel 1932.5 MHz			
Frequency Range 1		-21.80	-19 Pass
Frequency Range 2		-21.79	-19 Pass
Frequency Range 3		-22.68	-19 Pass
High Channel 1992.5 MHz			
Frequency Range 1		-21.78	-19 Pass
Frequency Range 2		-22.18	-19 Pass
Frequency Range 3		-22.42	-19 Pass
10 MHz Bandwidth			
QPSK Modulation			
Low Channel 1935 MHz			
Frequency Range 1		-25.13	-19 Pass
Frequency Range 2		-24.69	-19 Pass
Frequency Range 3		-24.44	-19 Pass
High Channel 1990 MHz			
Frequency Range 1		-25.72	-19 Pass
Frequency Range 2		-23.81	-19 Pass
Frequency Range 3		-23.55	-19 Pass
16-QAM Modulation			
Low Channel 1935 MHz			
Frequency Range 1		-26.63	-19 Pass
Frequency Range 2		-25.08	-19 Pass
Frequency Range 3		-24.61	-19 Pass
High Channel 1990 MHz			
Frequency Range 1		-26.52	-19 Pass
Frequency Range 2		-23.50	-19 Pass
Frequency Range 3		-23.65	-19 Pass
64-QAM Modulation			
Low Channel 1935 MHz			
Frequency Range 1		-25.56	-19 Pass
Frequency Range 2		-24.32	-19 Pass
Frequency Range 3		-24.45	-19 Pass
High Channel 1990 MHz			
Frequency Range 1		-25.53	-19 Pass
Frequency Range 2		-23.70	-19 Pass
Frequency Range 3		-23.37	-19 Pass
256-QAM Modulation			
Low Channel 1935 MHz			
Frequency Range 1		-24.55	-19 Pass
Frequency Range 2		-24.45	-19 Pass
Frequency Range 3		-25.42	-19 Pass
High Channel 1990 MHz			
Frequency Range 1		-25.05	-19 Pass
Frequency Range 2		-23.62	-19 Pass
Frequency Range 3		-23.45	-19 Pass
15 MHz Bandwidth			
QPSK Modulation			

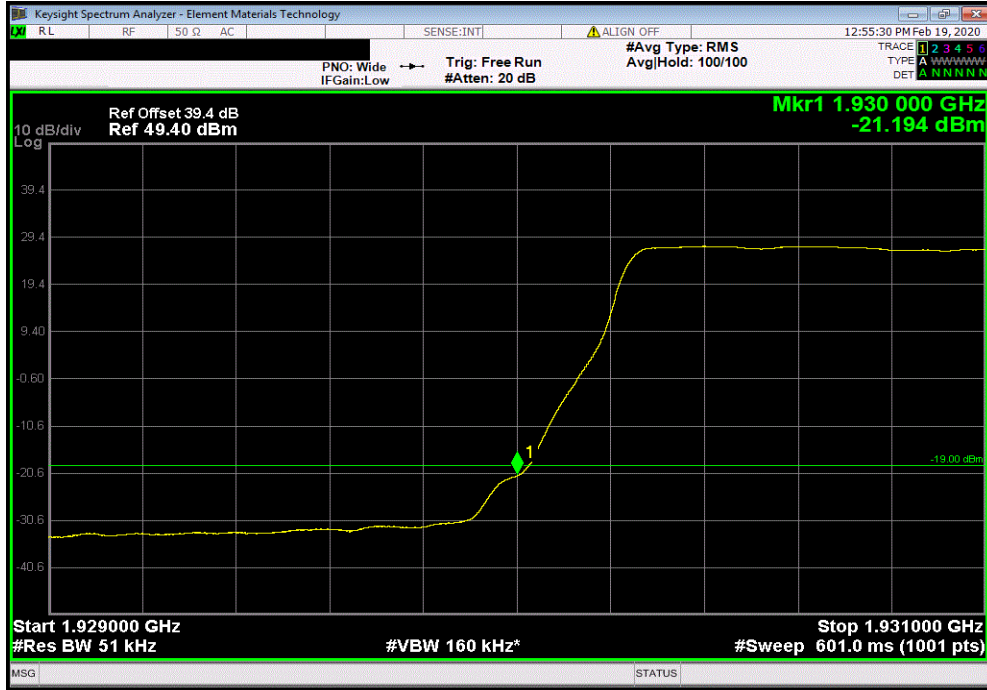
<b>Low Channel 1937.5 MHz</b>				
Frequency Range 1		-25.37	-19	Pass
Frequency Range 2		-25.27	-19	Pass
Frequency Range 3		-25.31	-19	Pass
<b>High Channel 1987.5 MHz</b>				
Frequency Range 1		-26.09	-19	Pass
Frequency Range 2		-24.24	-19	Pass
Frequency Range 3		-24.40	-19	Pass
<b>16-QAM Modulation</b>				
<b>Low Channel 1937.5 MHz</b>				
Frequency Range 1		-26.57	-19	Pass
Frequency Range 2		-25.56	-19	Pass
Frequency Range 3		-25.45	-19	Pass
<b>High Channel 1987.5 MHz</b>				
Frequency Range 1		-24.93	-19	Pass
Frequency Range 2		-24.23	-19	Pass
Frequency Range 3		-23.99	-19	Pass
<b>64-QAM Modulation</b>				
<b>Low Channel 1937.5 MHz</b>				
Frequency Range 1		-25.14	-19	Pass
Frequency Range 2		-25.54	-19	Pass
Frequency Range 3		-25.40	-19	Pass
<b>High Channel 1987.5 MHz</b>				
Frequency Range 1		-25.67	-19	Pass
Frequency Range 2		-24.38	-19	Pass
Frequency Range 3		-24.52	-19	Pass
<b>256-QAM Modulation</b>				
<b>Low Channel 1937.5 MHz</b>				
Frequency Range 1		-25.37	-19	Pass
Frequency Range 2		-25.36	-19	Pass
Frequency Range 3		-25.42	-19	Pass
<b>High Channel 1987.5 MHz</b>				
Frequency Range 1		-25.46	-19	Pass
Frequency Range 2		-24.31	-19	Pass
Frequency Range 3		-24.50	-19	Pass
<b>20 MHz Bandwidth</b>				
<b>QPSK Modulation</b>				
<b>Low Channel 1940 MHz</b>				
Frequency Range 1		-23.08	-19	Pass
Frequency Range 2		-25.61	-19	Pass
Frequency Range 3		-25.73	-19	Pass
<b>High Channel 1985 MHz</b>				
Frequency Range 1		-22.84	-19	Pass
Frequency Range 2		-25.20	-19	Pass
Frequency Range 3		-24.76	-19	Pass
<b>16-QAM Modulation</b>				
<b>Low Channel 1940 MHz</b>				
Frequency Range 1		-23.59	-19	Pass
Frequency Range 2		-26.25	-19	Pass
Frequency Range 3		-25.74	-19	Pass
<b>High Channel 1985 MHz</b>				
Frequency Range 1		-22.90	-19	Pass
Frequency Range 2		-25.25	-19	Pass
Frequency Range 3		-25.06	-19	Pass
<b>64-QAM Modulation</b>				
<b>Low Channel 1940 MHz</b>				
Frequency Range 1		-23.32	-19	Pass
Frequency Range 2		-26.23	-19	Pass
Frequency Range 3		-25.87	-19	Pass
<b>High Channel 1985 MHz</b>				
Frequency Range 1		-21.92	-19	Pass
Frequency Range 2		-25.31	-19	Pass
Frequency Range 3		-25.00	-19	Pass
<b>256-QAM Modulation</b>				
<b>Low Channel 1940 MHz</b>				
Frequency Range 1		-23.25	-19	Pass
Frequency Range 2		-25.99	-19	Pass
Frequency Range 3		-25.77	-19	Pass
<b>High Channel 1985 MHz</b>				
Frequency Range 1		-23.09	-19	Pass
Frequency Range 2		-25.00	-19	Pass
Frequency Range 3		-24.97	-19	Pass

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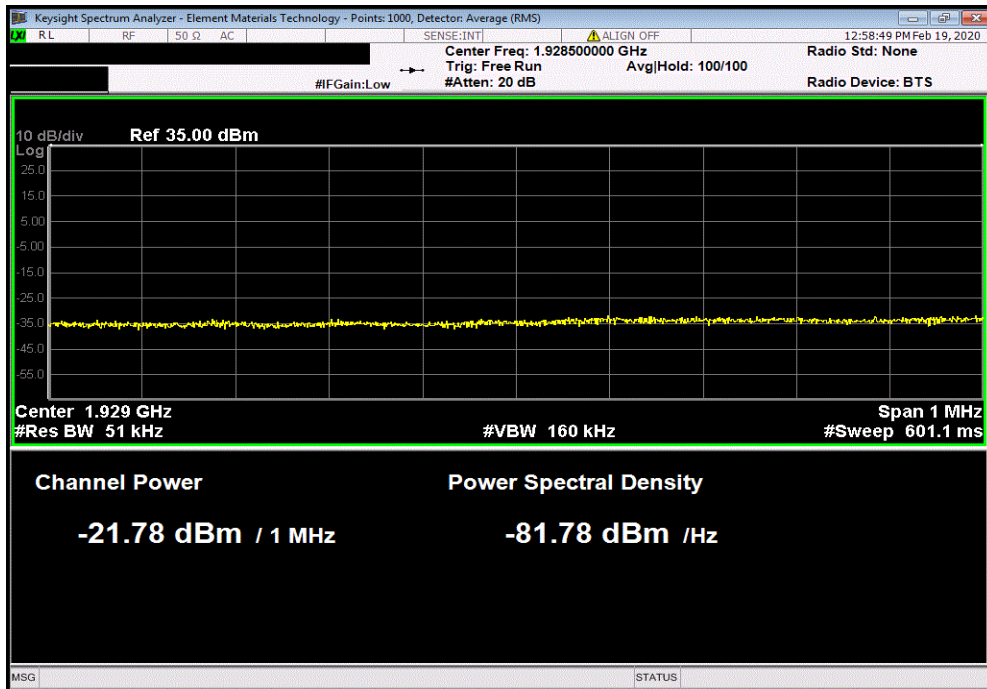


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , QPSK Modulation, Low Channel 1932.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-21.194	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , QPSK Modulation, Low Channel 1932.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.78	-19	Pass

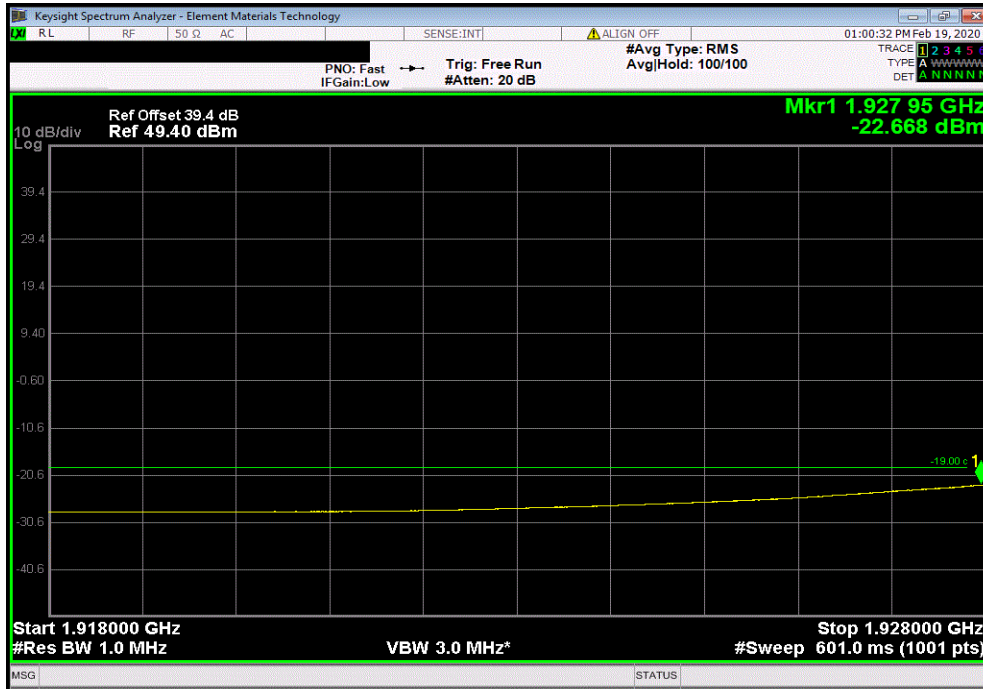


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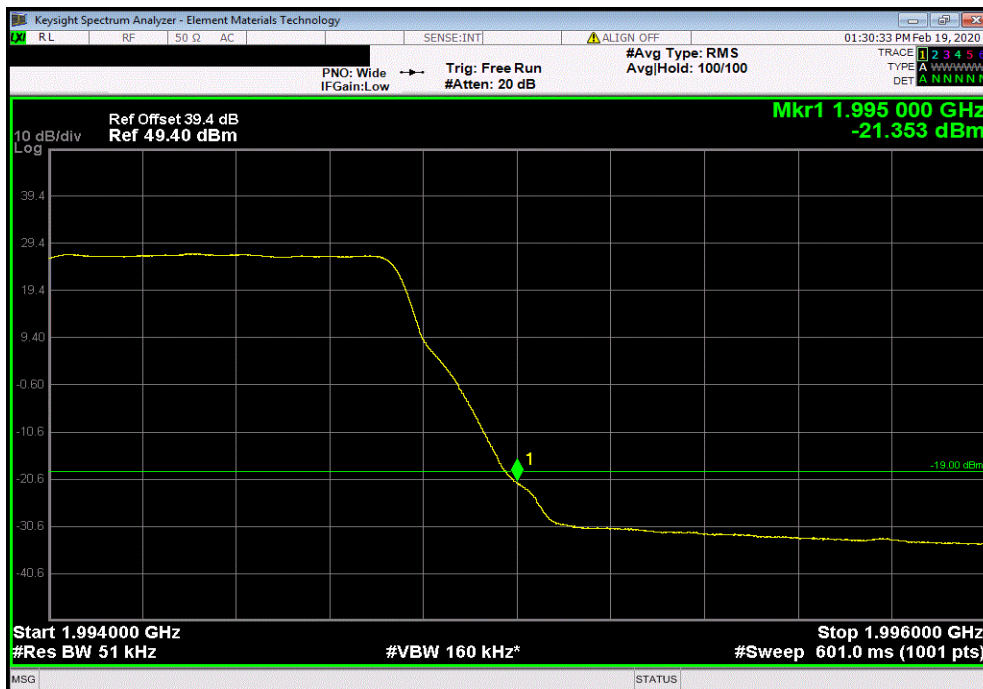


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , QPSK Modulation, Low Channel 1932.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.668	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , QPSK Modulation, High Channel 1992.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-21.353	-19	Pass

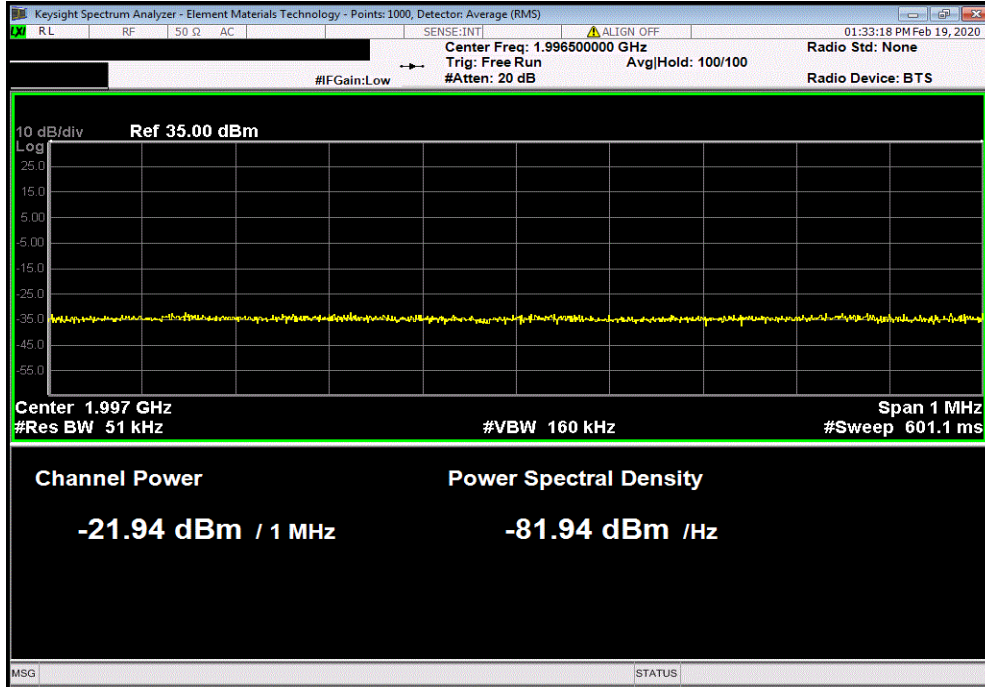


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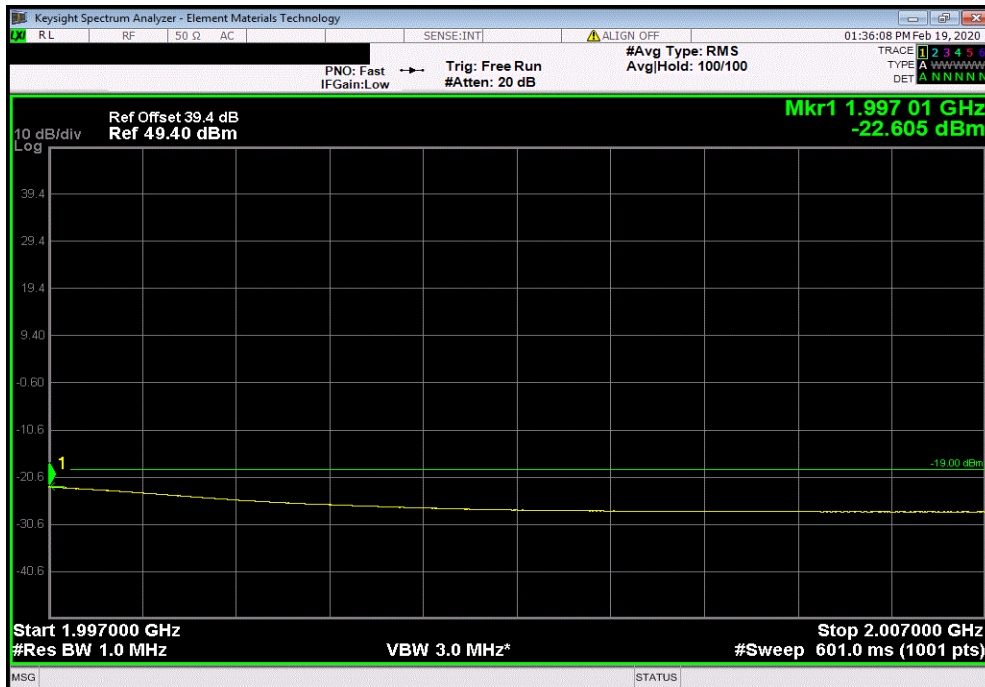


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , QPSK Modulation, High Channel 1992.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.94	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , QPSK Modulation, High Channel 1992.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.605	-19	Pass

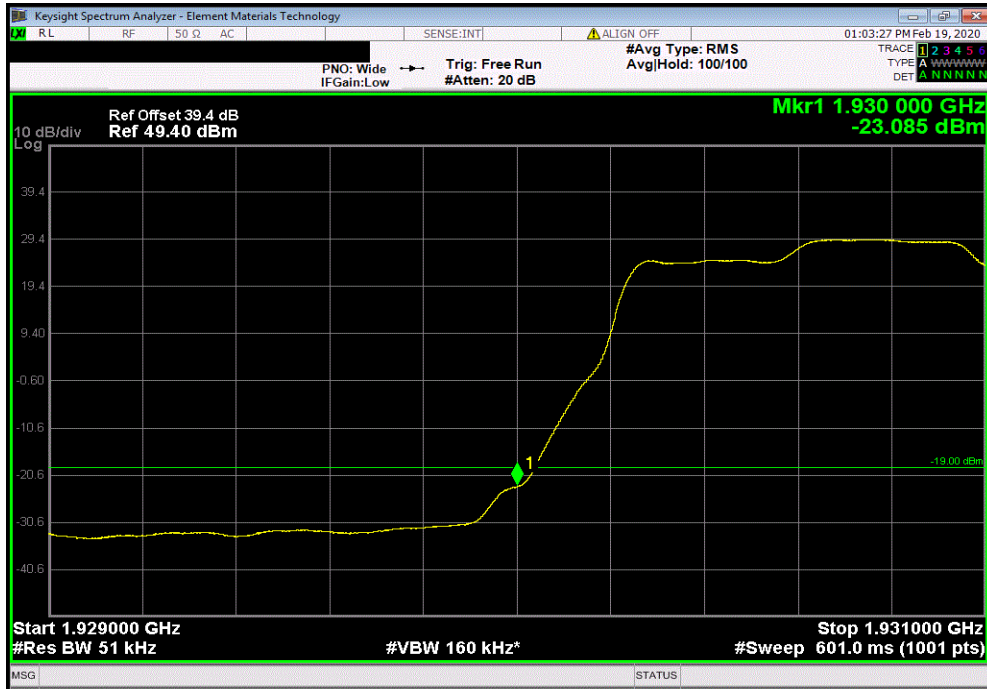


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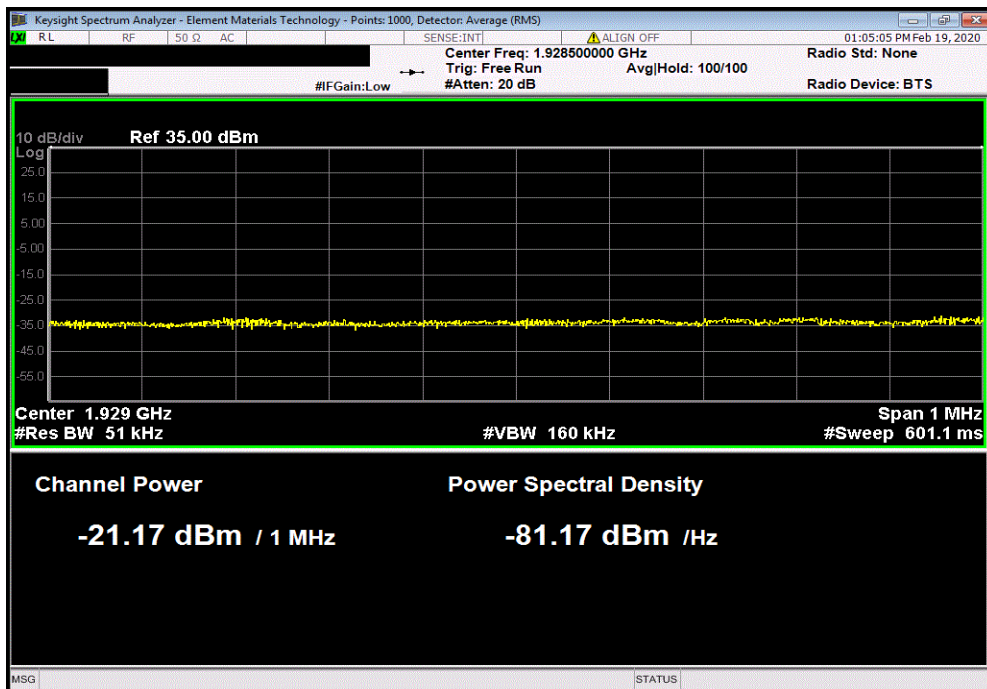


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.085	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.17	-19	Pass



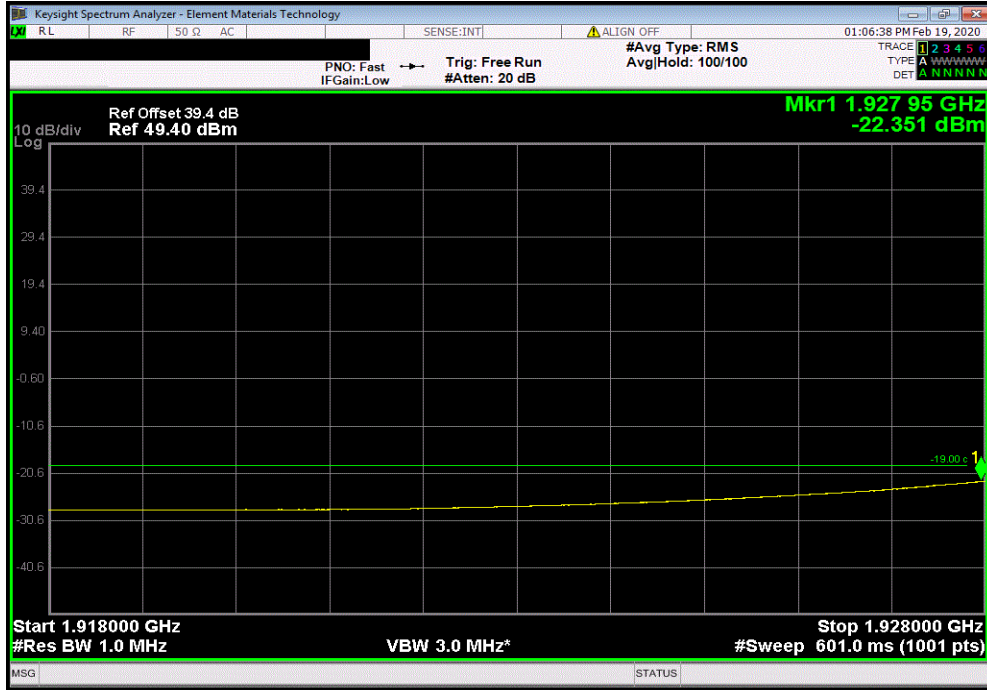


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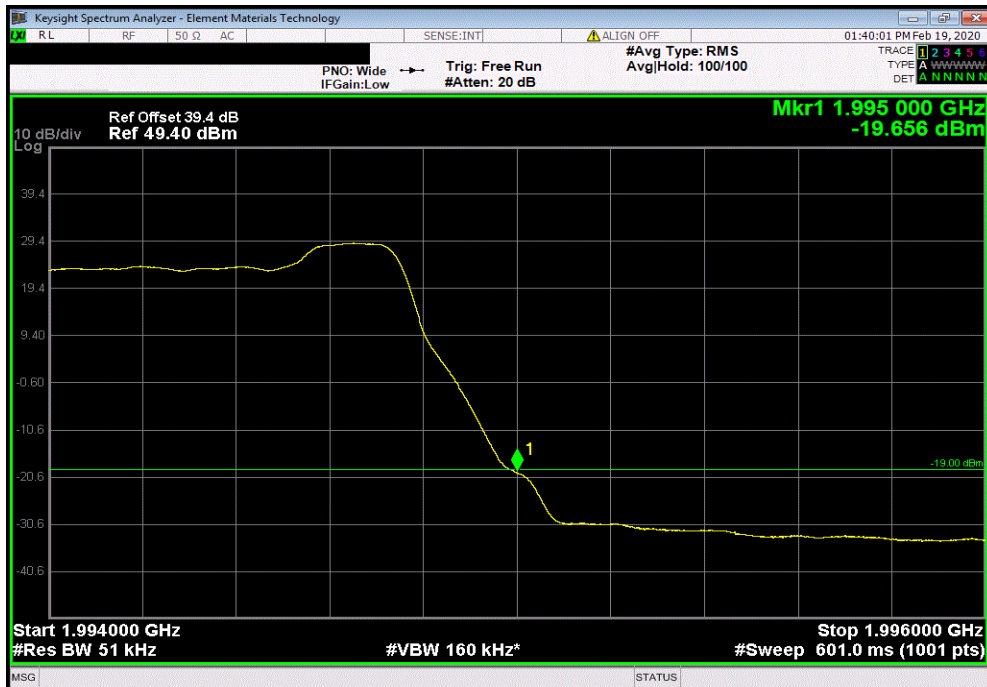


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.351	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-19.656	-19	Pass



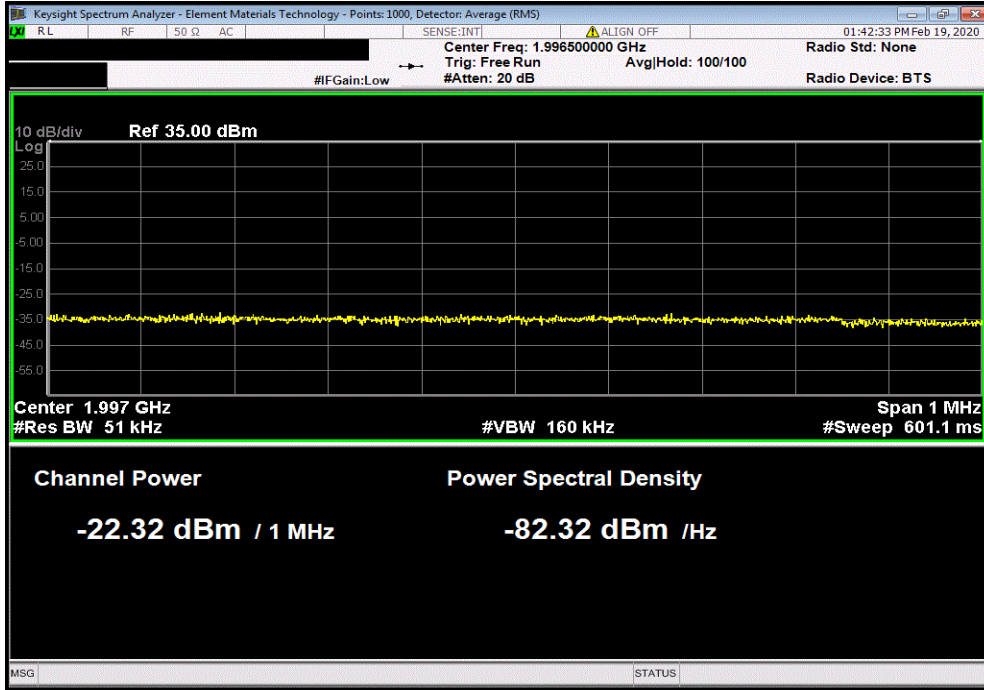


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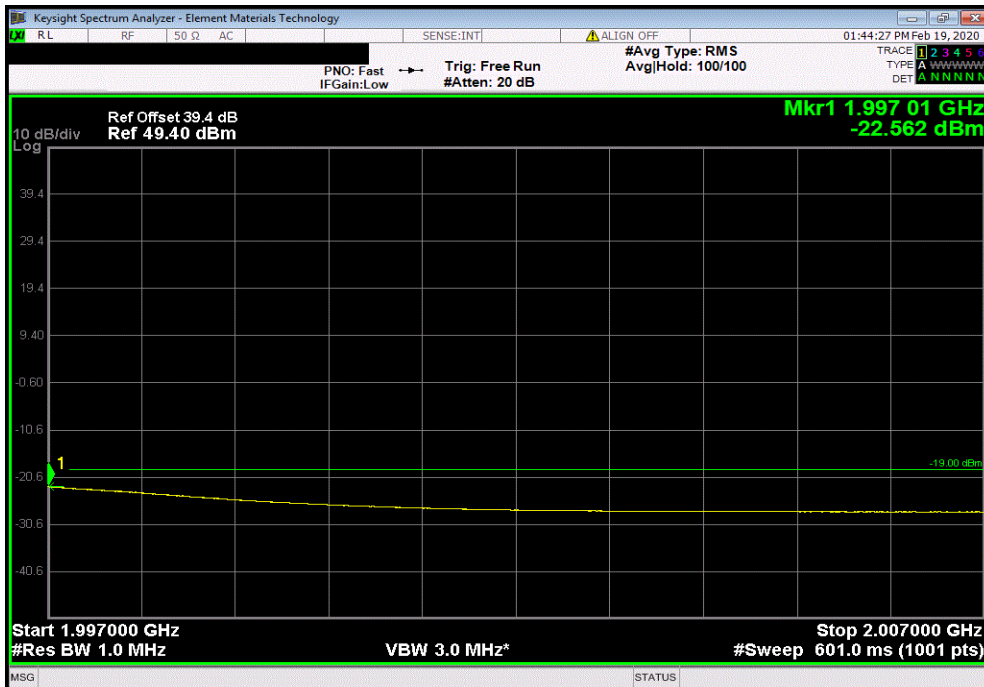


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-22.32	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.562	-19	Pass

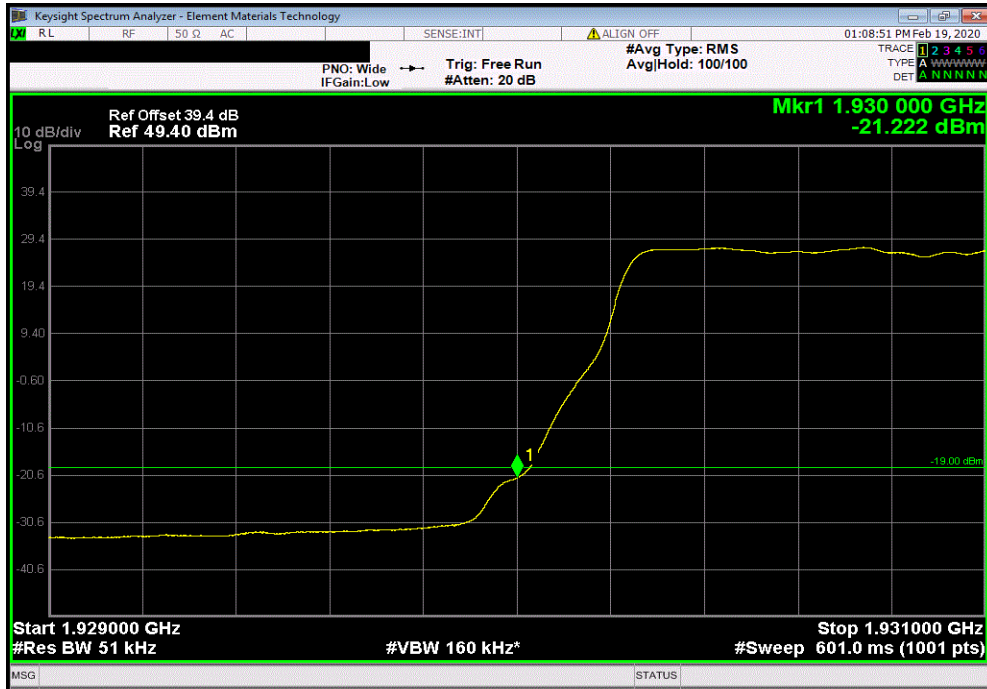


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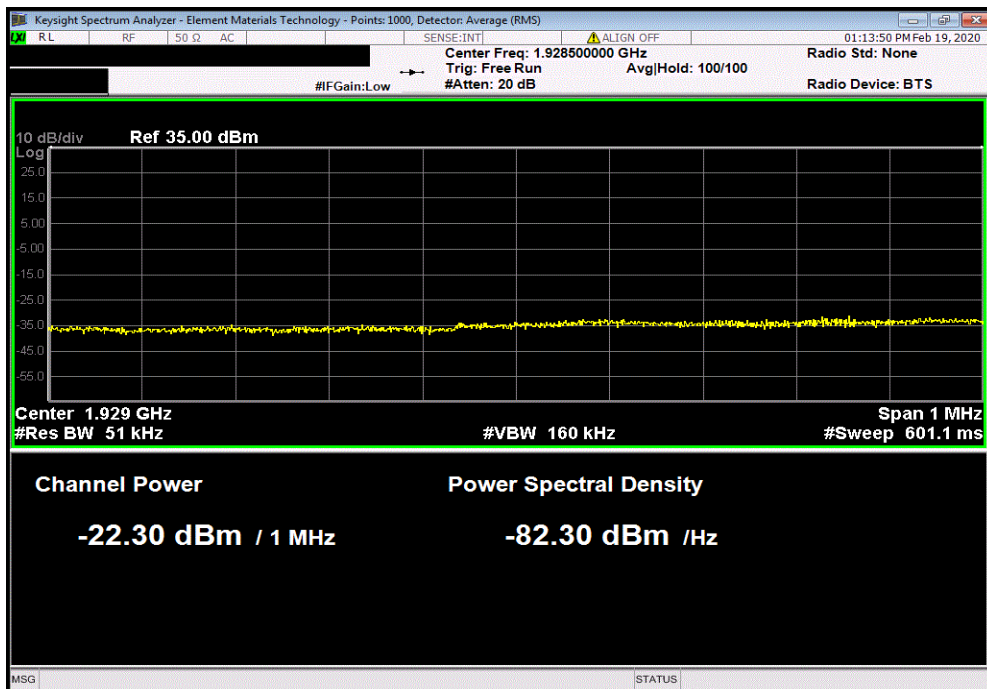


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-21.222	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-22.3	-19	Pass

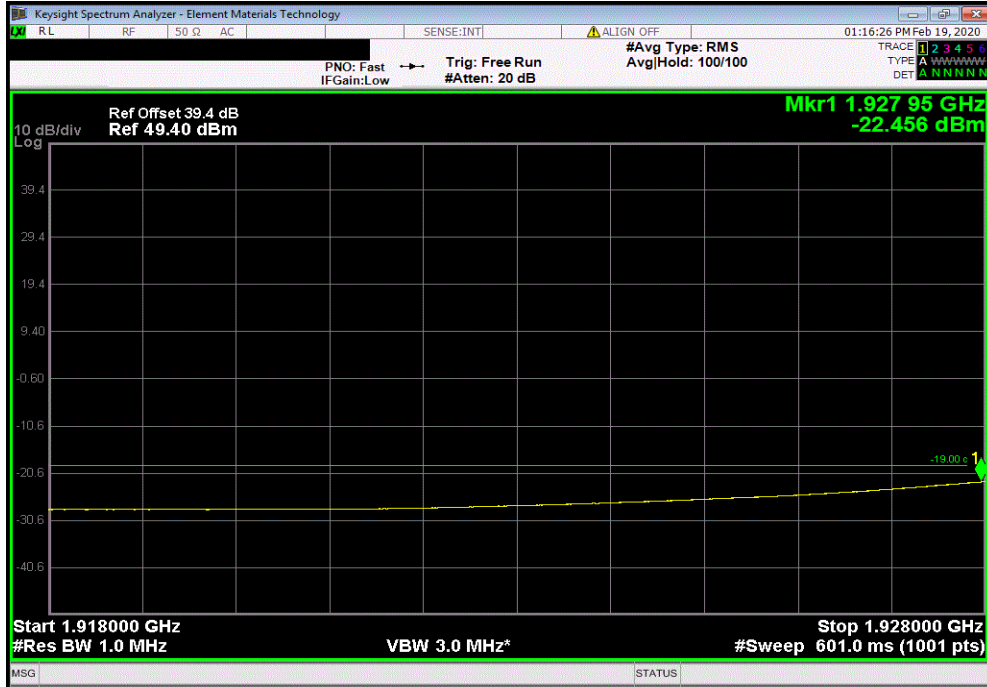


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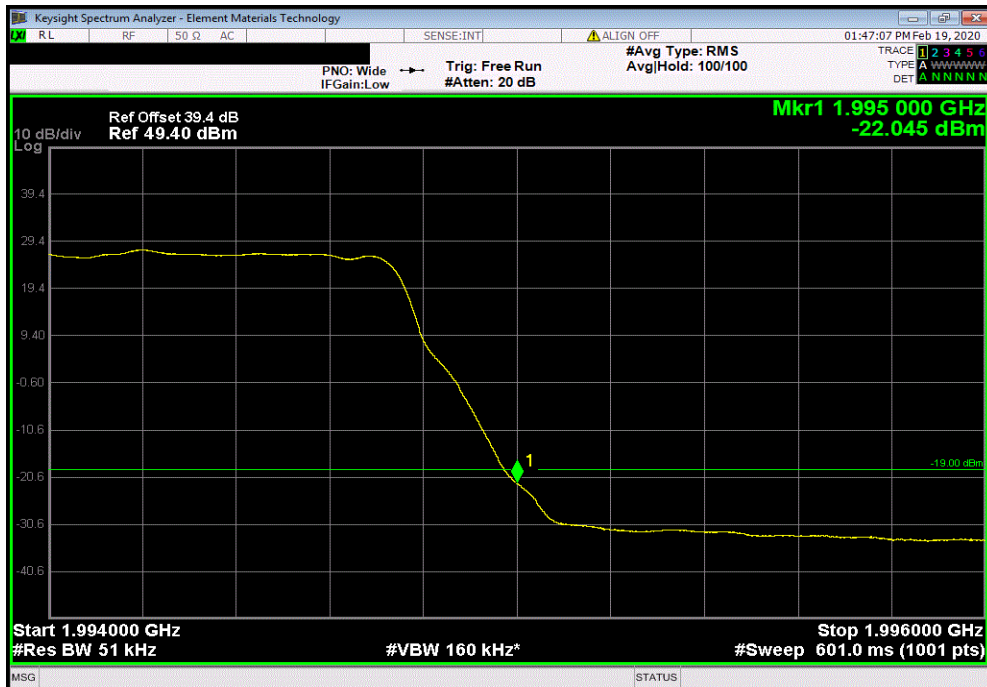


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.456	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-22.045	-19	Pass

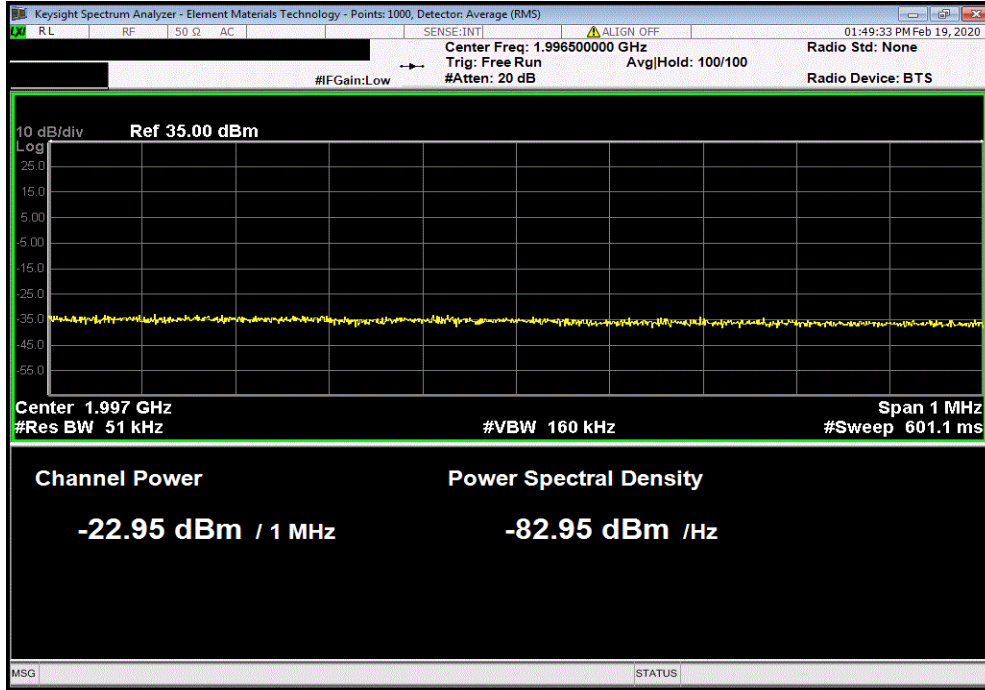


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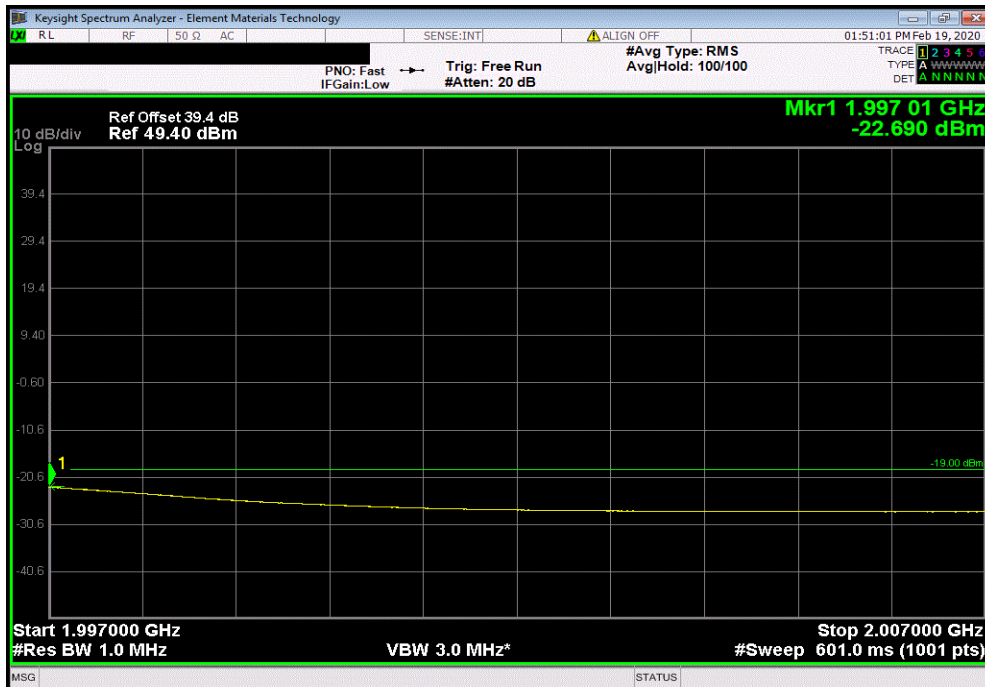


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-22.95	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.69	-19	Pass

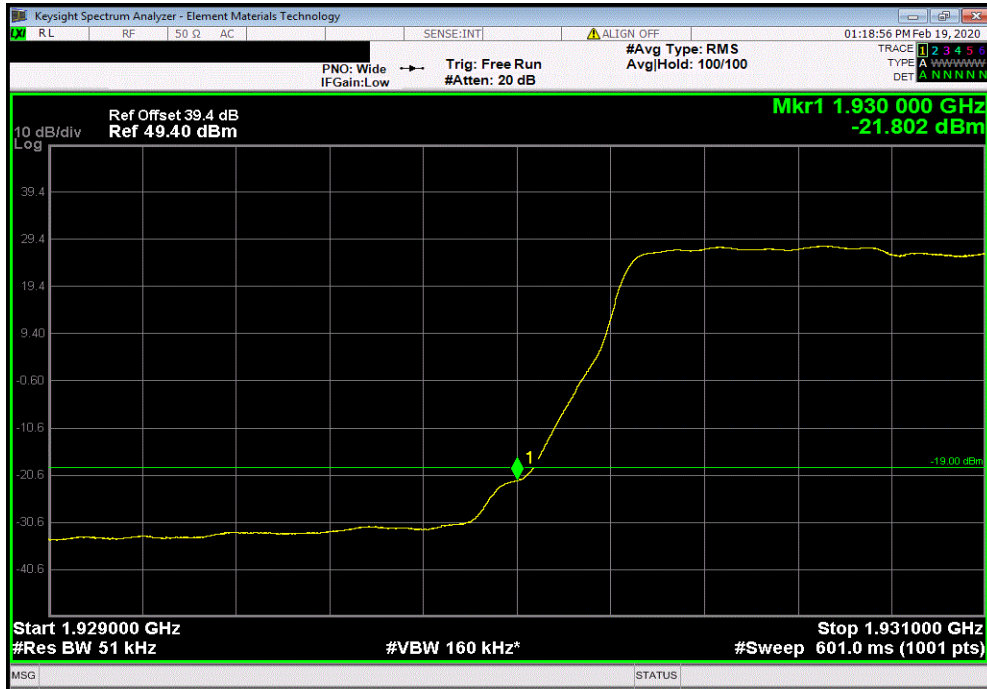


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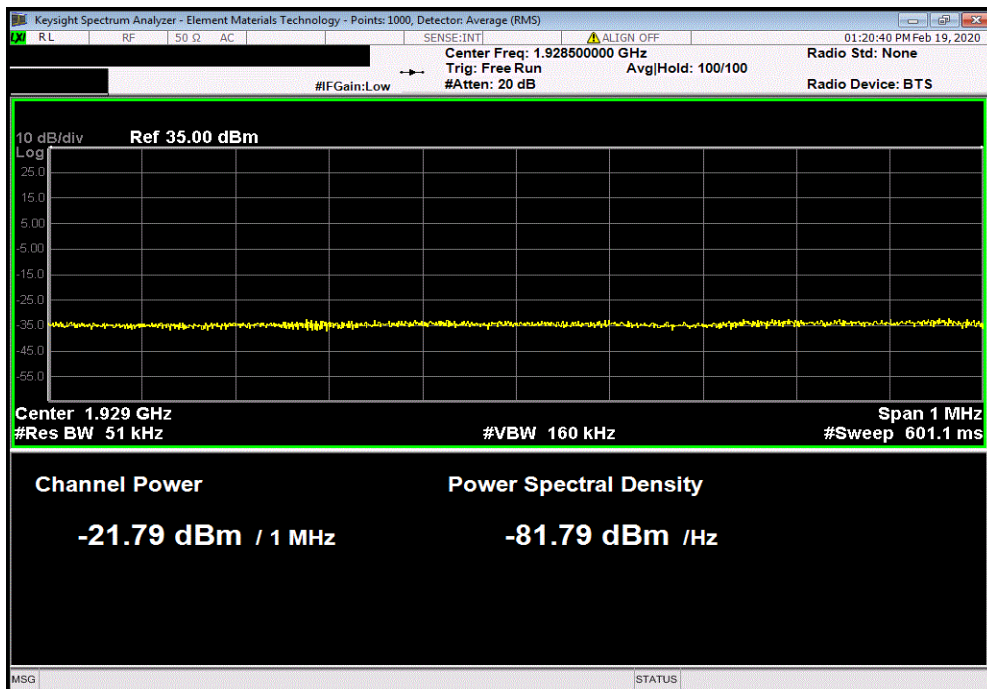


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-21.802	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.79	-19	Pass



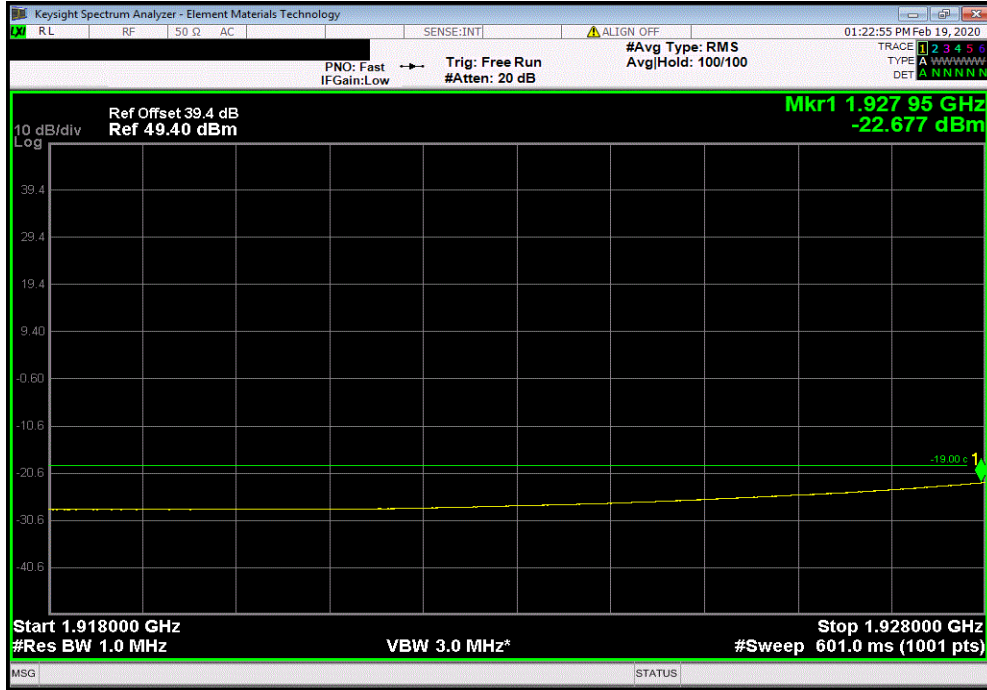


# BAND EDGE COMPLIANCE BAND 25

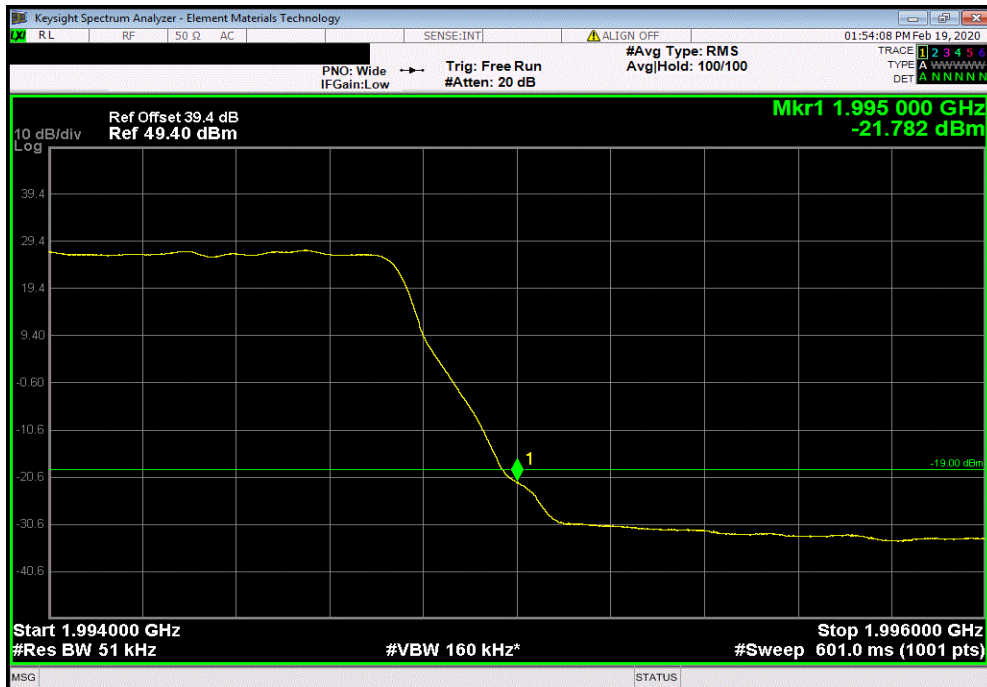


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 1932.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.677	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-21.782	-19	Pass

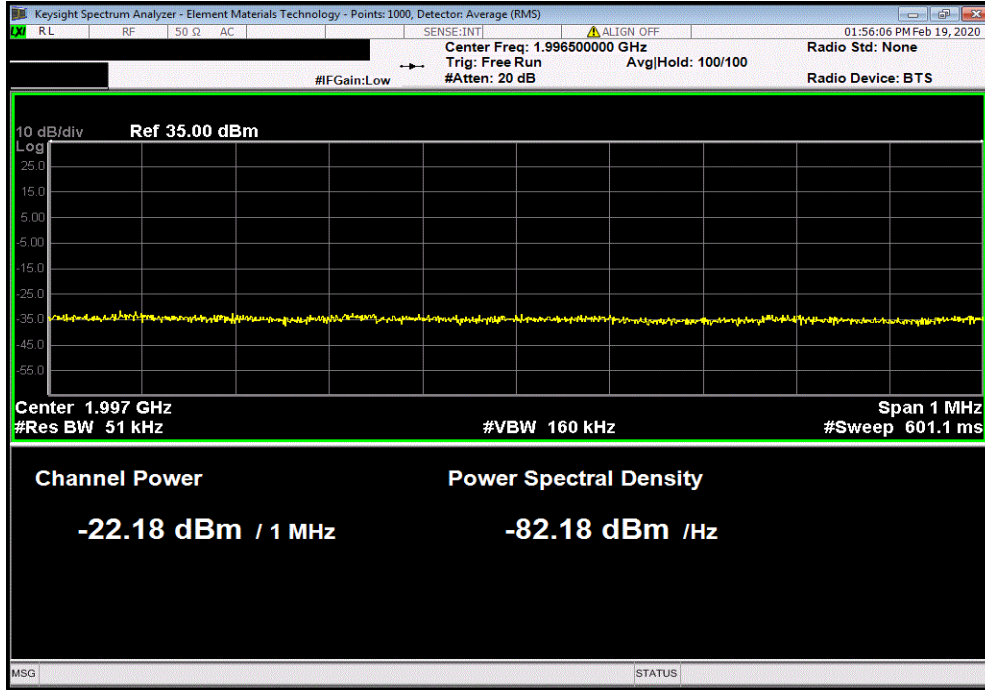


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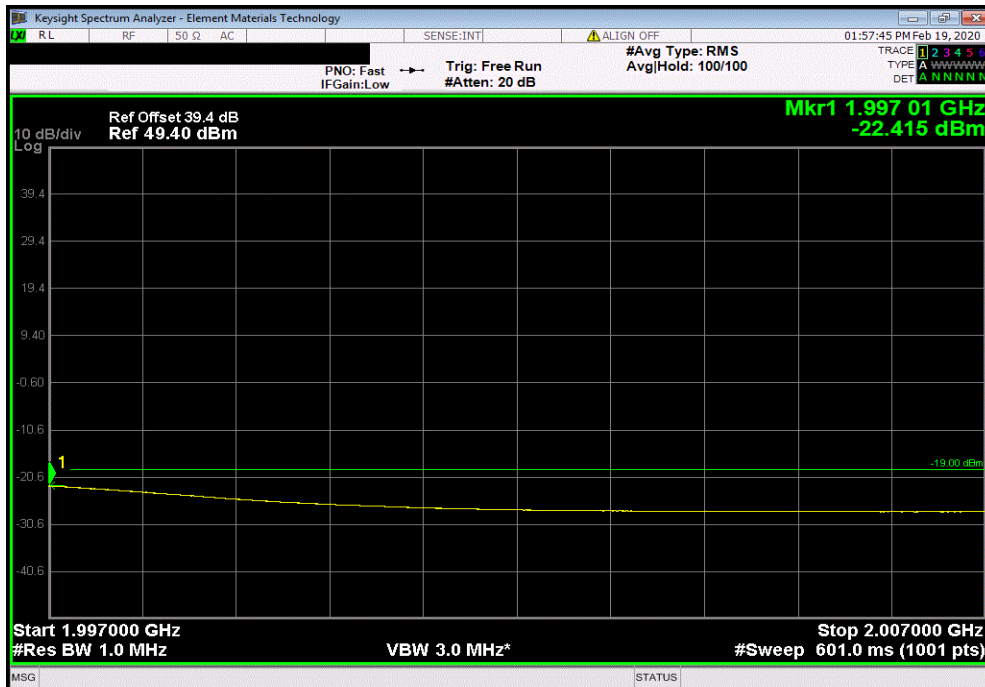


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-22.18	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 1992.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.415	-19	Pass



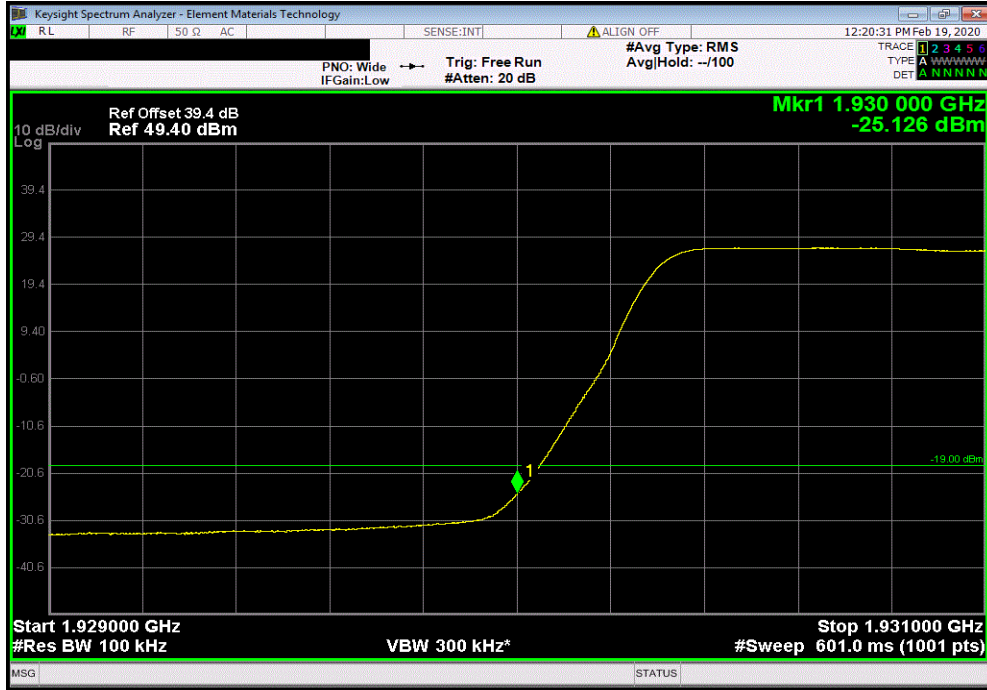


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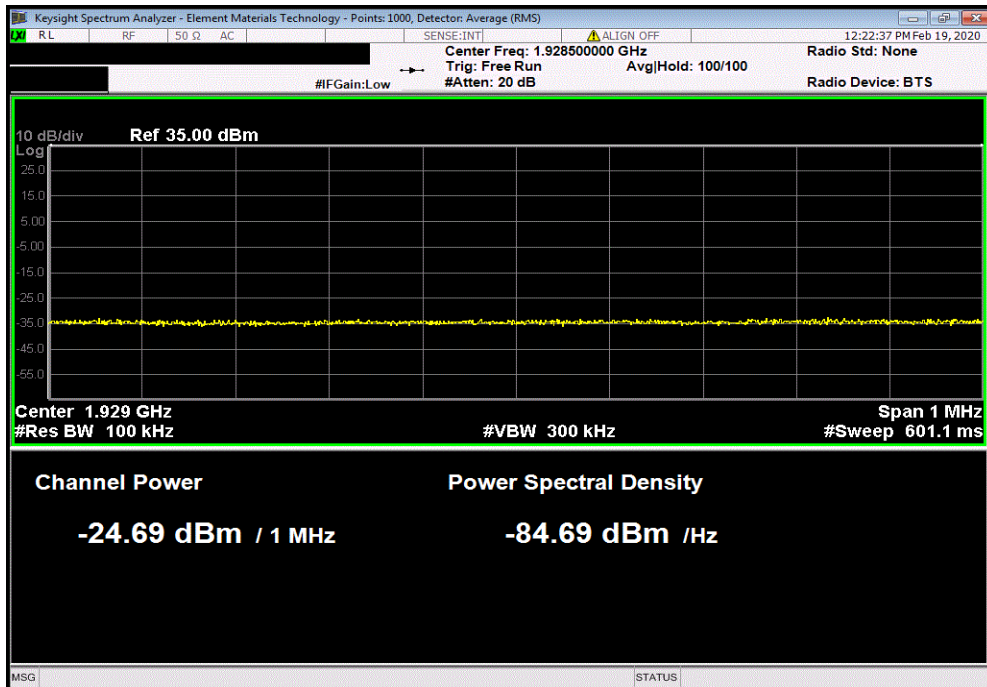


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , QPSK Modulation, Low Channel 1935 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.126	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , QPSK Modulation, Low Channel 1935 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.69	-19	Pass

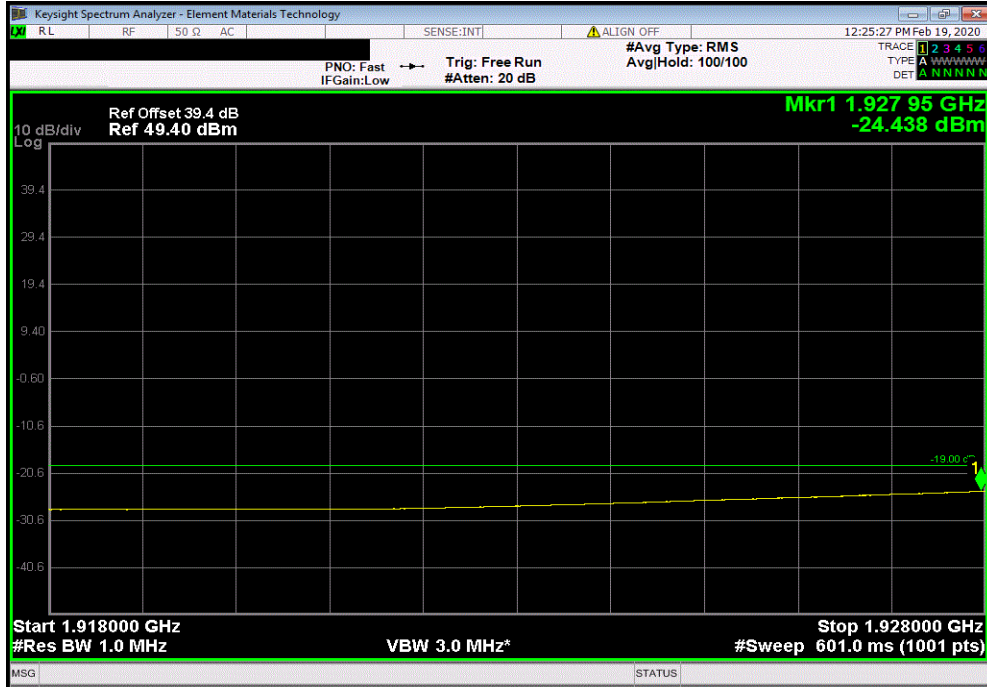


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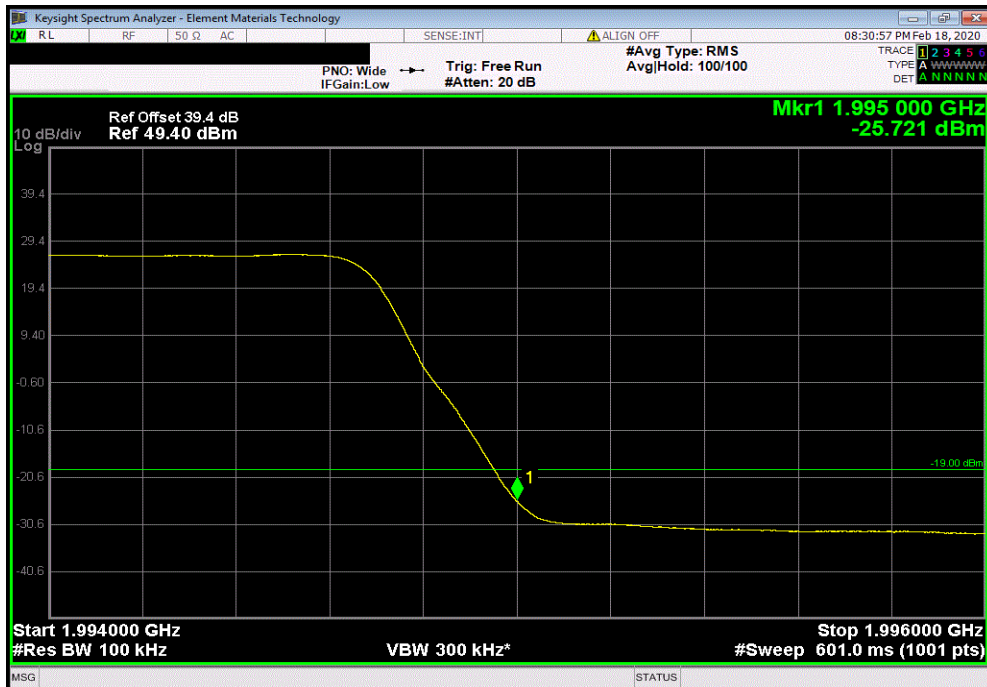


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , QPSK Modulation, Low Channel 1935 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.438	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , QPSK Modulation, High Channel 1990 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.721	-19	Pass

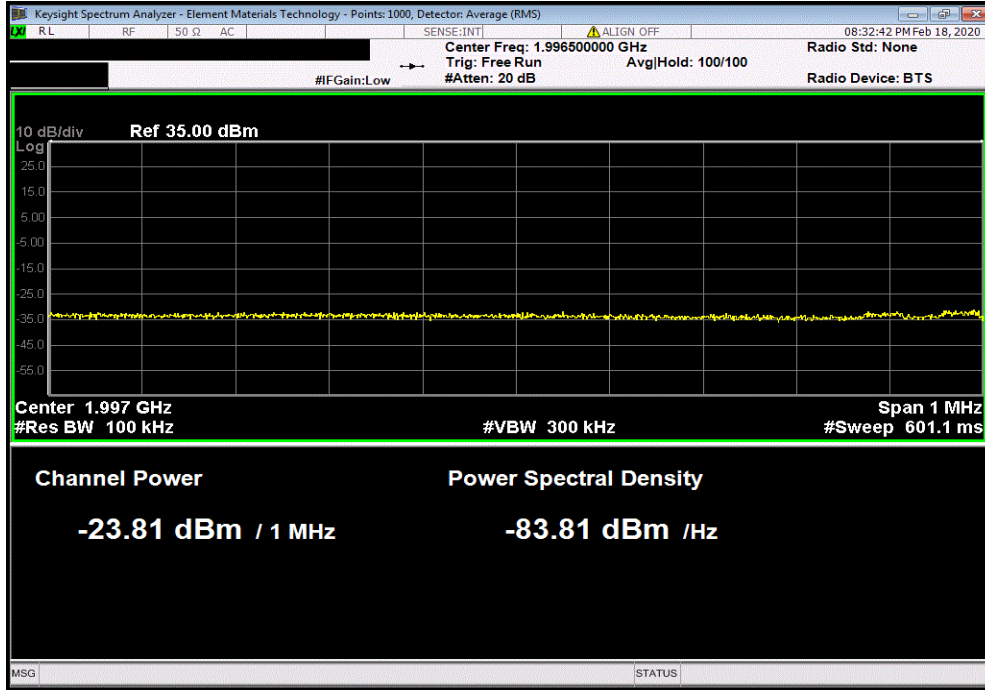


# BAND EDGE COMPLIANCE BAND 25

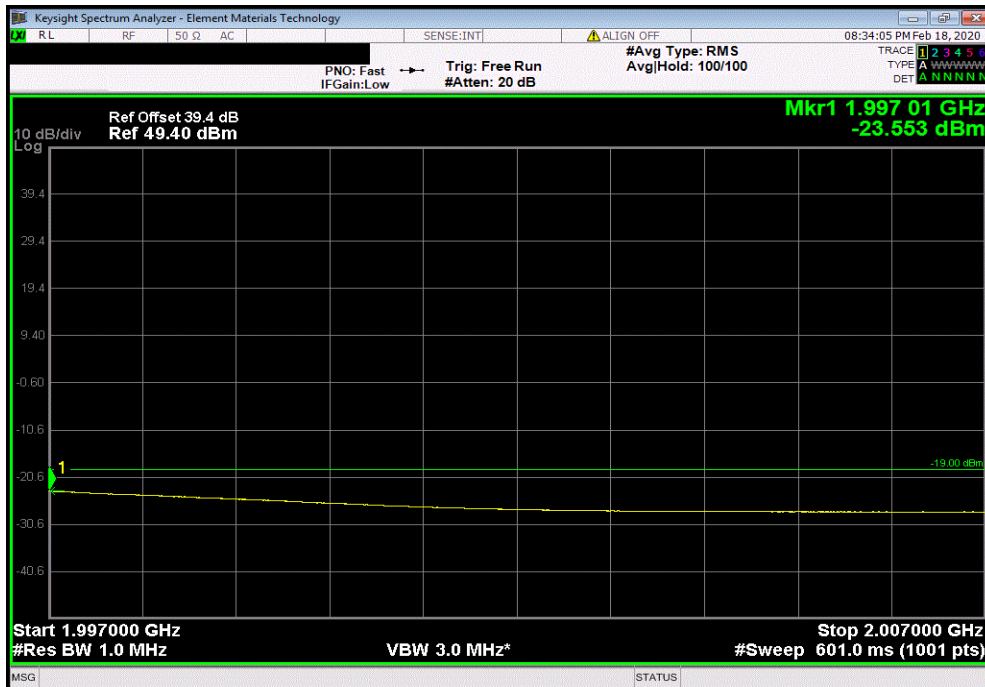


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , QPSK Modulation, High Channel 1990 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.81	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , QPSK Modulation, High Channel 1990 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.553	-19	Pass

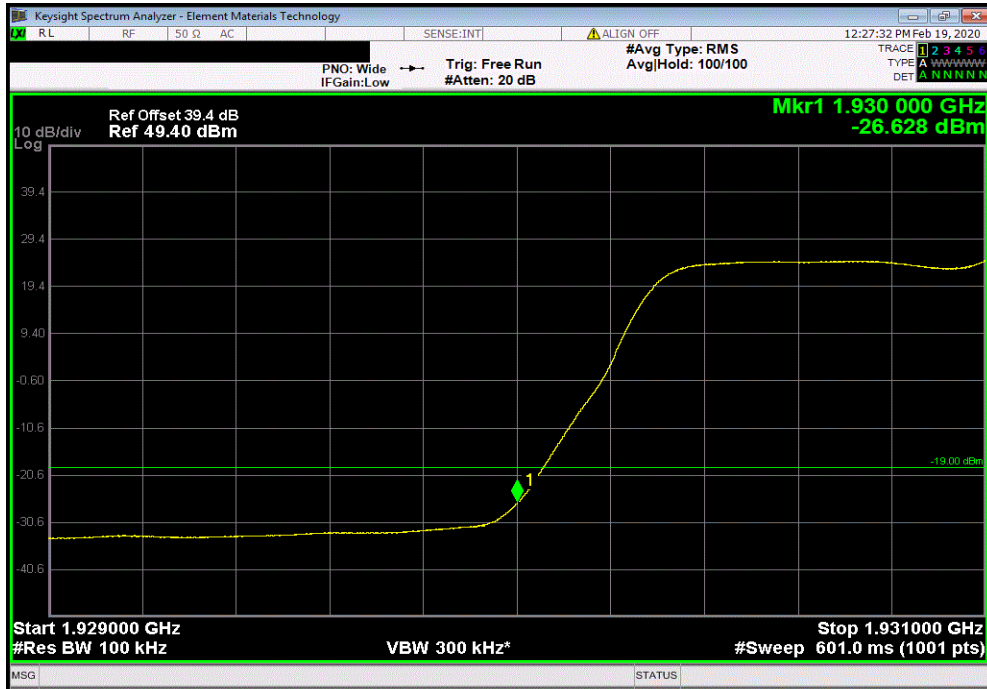


# BAND EDGE COMPLIANCE BAND 25

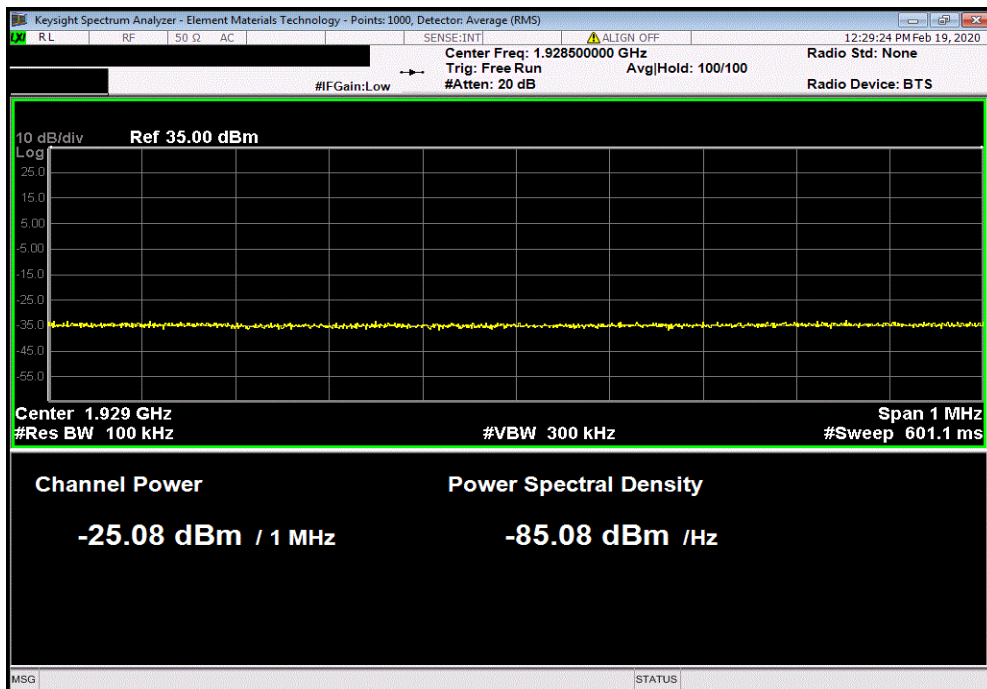


XMI 2019.09.05

5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 1935 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-26.628	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 1935 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.08	-19	Pass

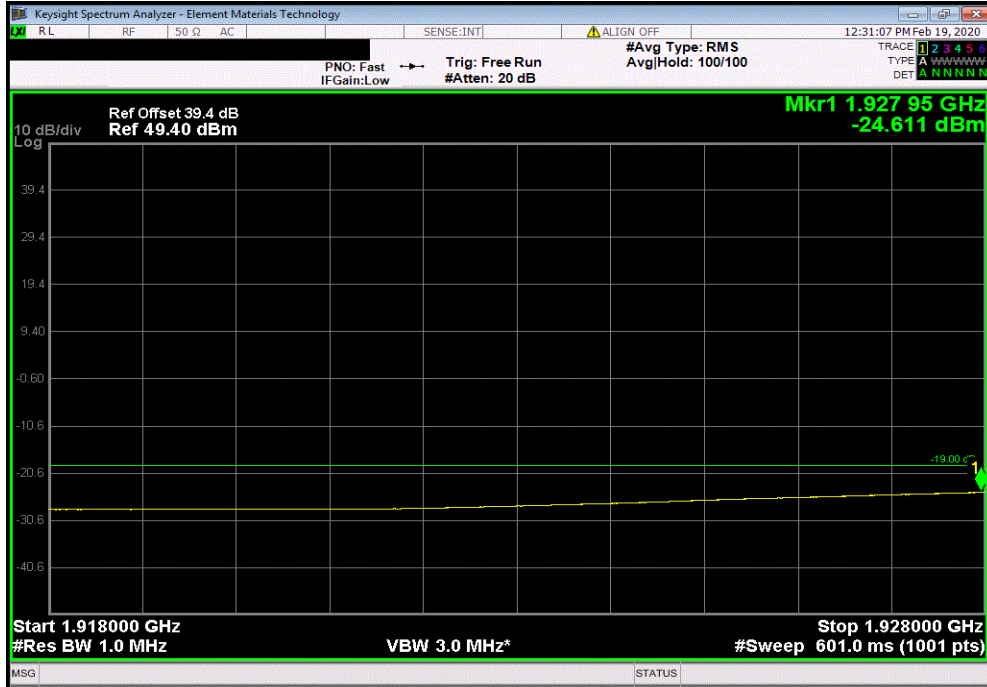


# BAND EDGE COMPLIANCE BAND 25

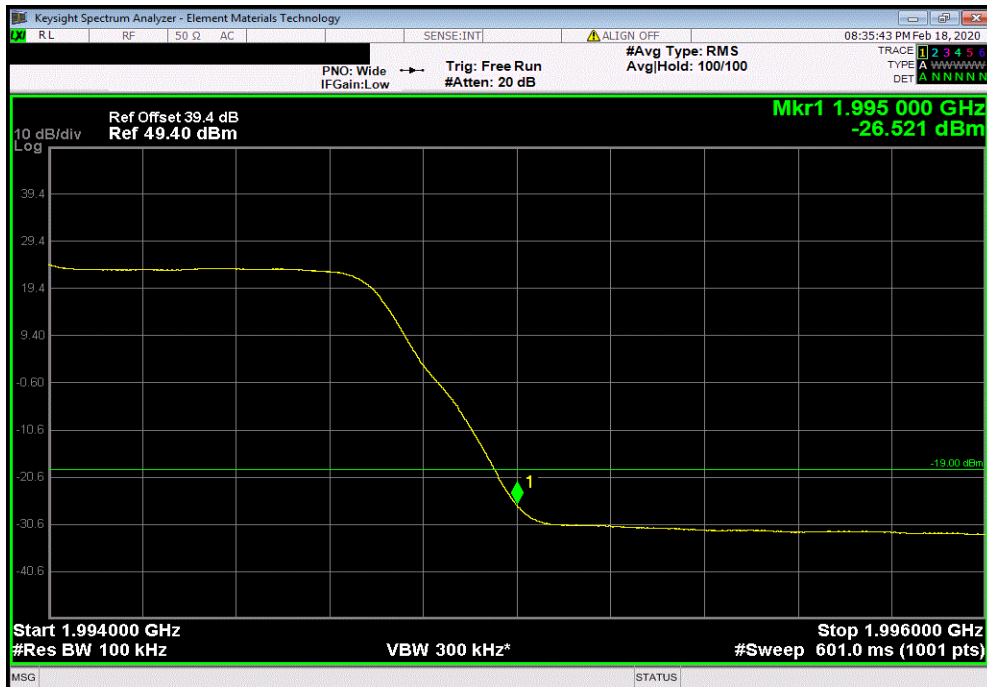


XMI 2019.09.05

5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 1935 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.611	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 1990 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-26.521	-19	Pass



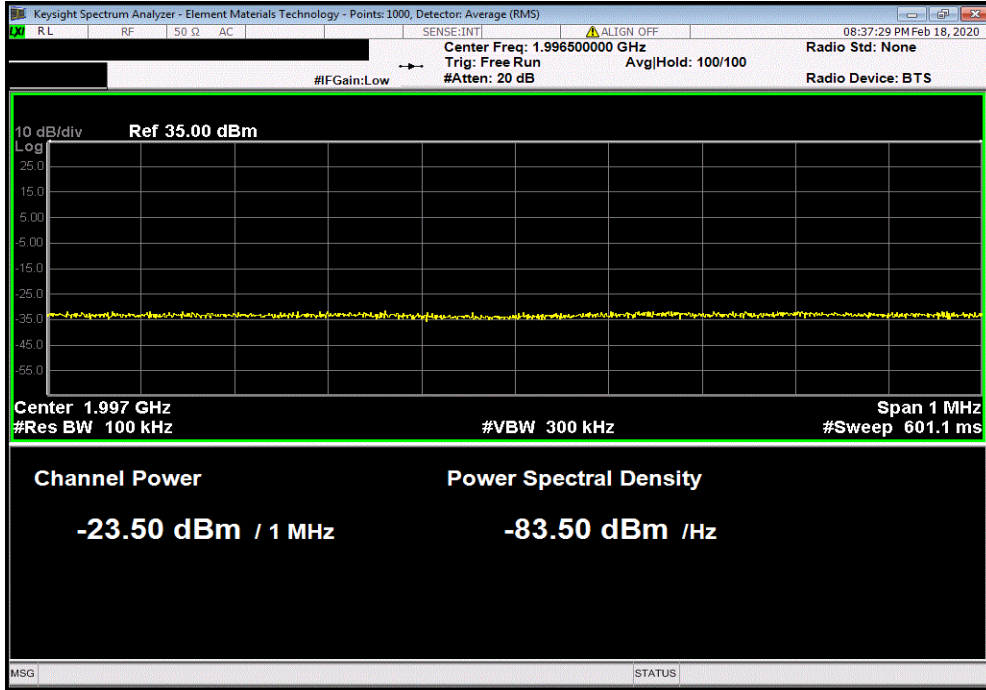


# BAND EDGE COMPLIANCE BAND 25

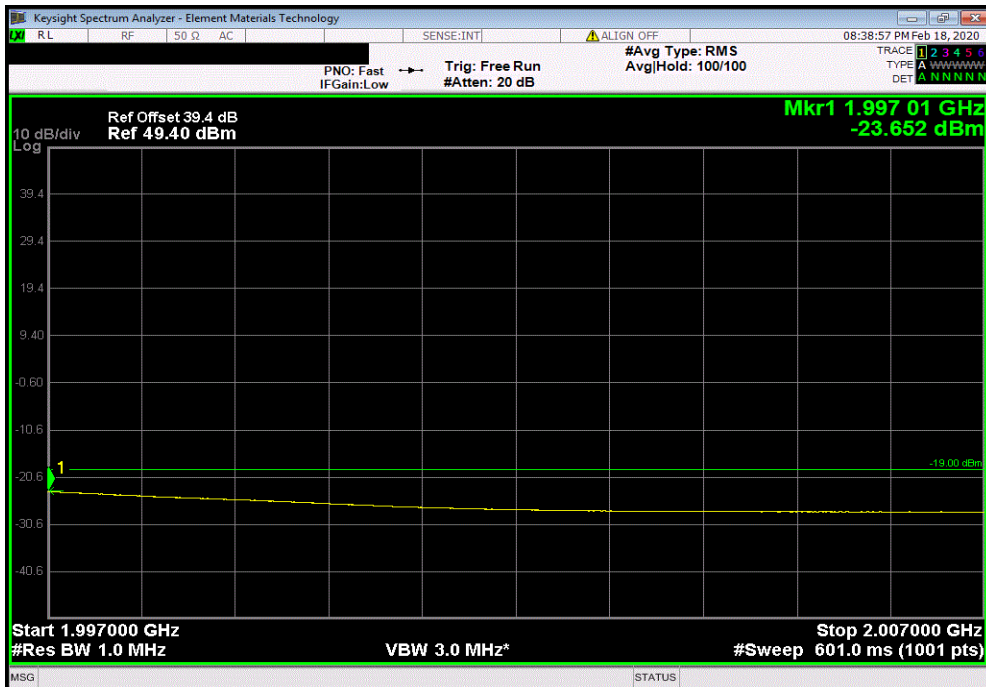


XMI 2019.09.05

5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 1990 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.5	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 1990 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.652	-19	Pass

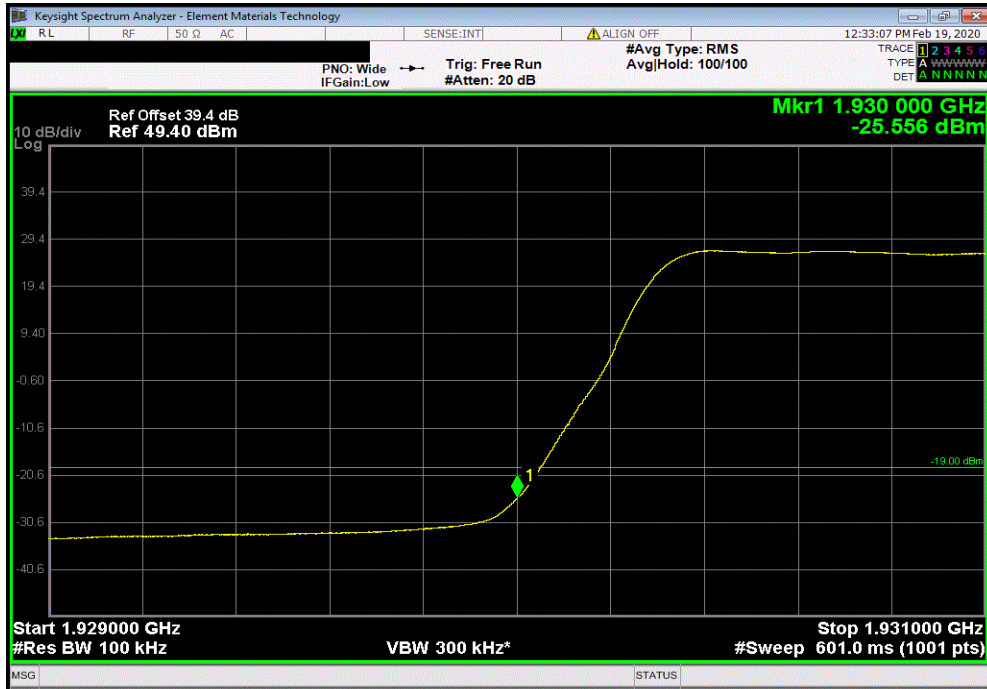


# BAND EDGE COMPLIANCE BAND 25

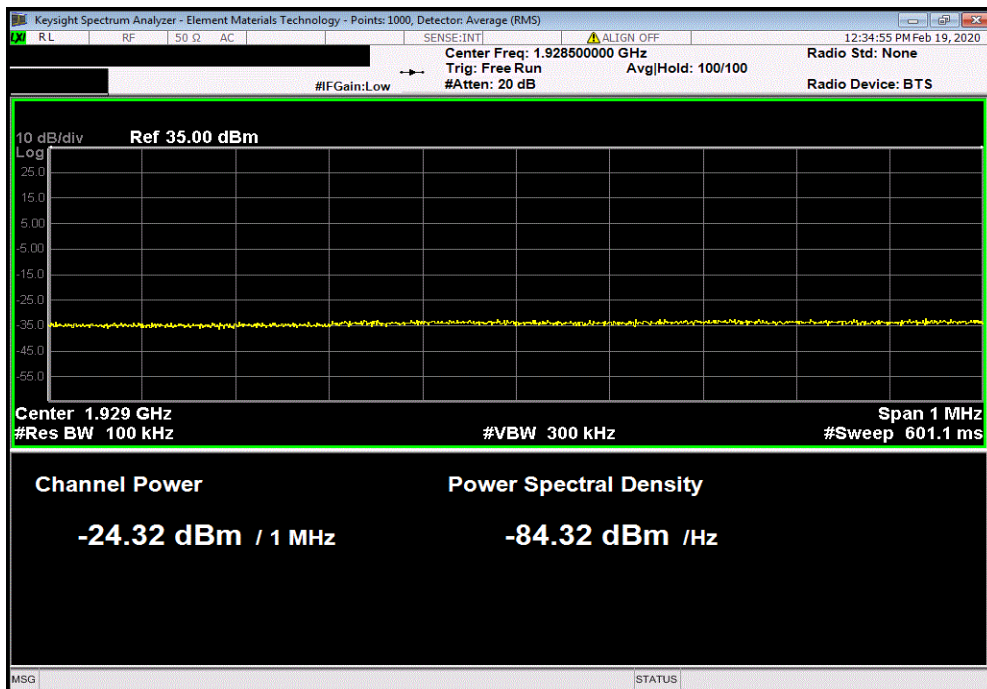


XMI 2019.09.05

5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 1935 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.556	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 1935 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.32	-19	Pass



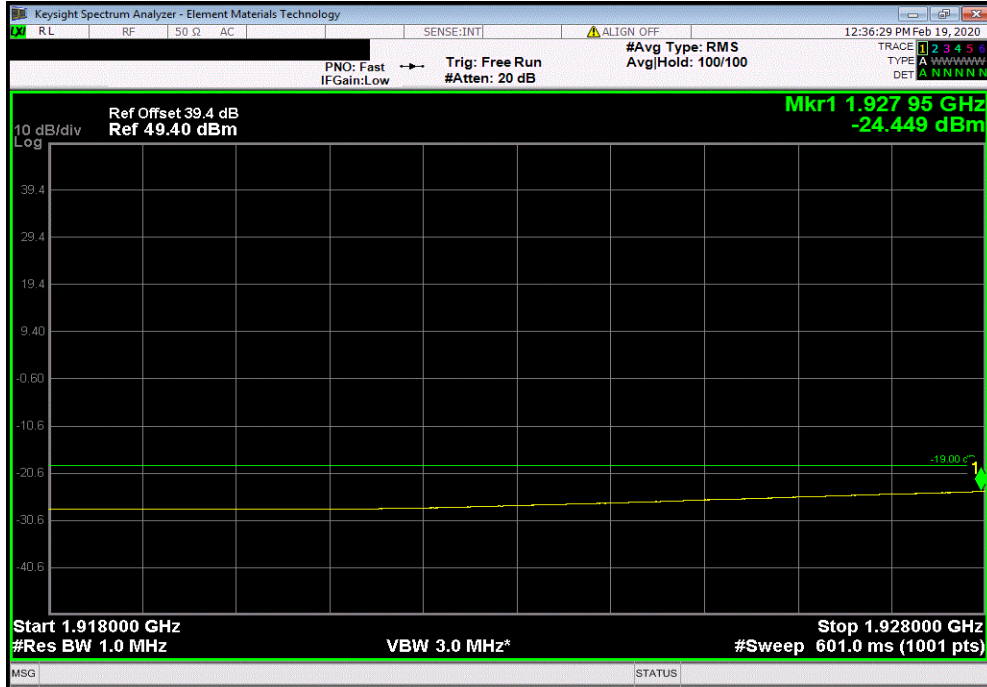


# BAND EDGE COMPLIANCE BAND 25

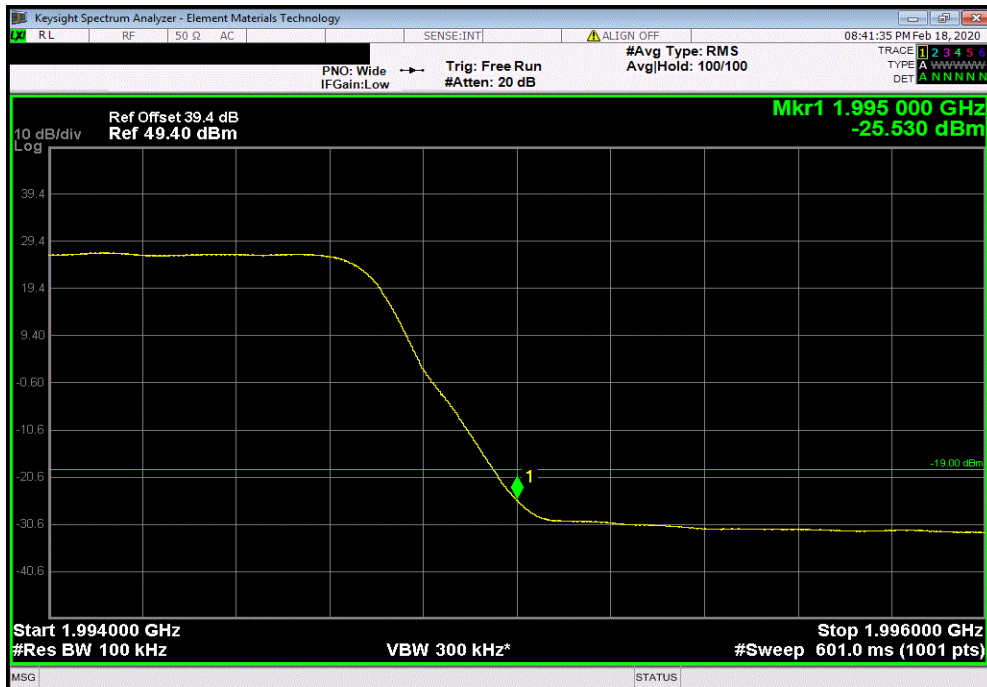


XMI 2019.09.05

5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 1935 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.449	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 1990 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.53	-19	Pass

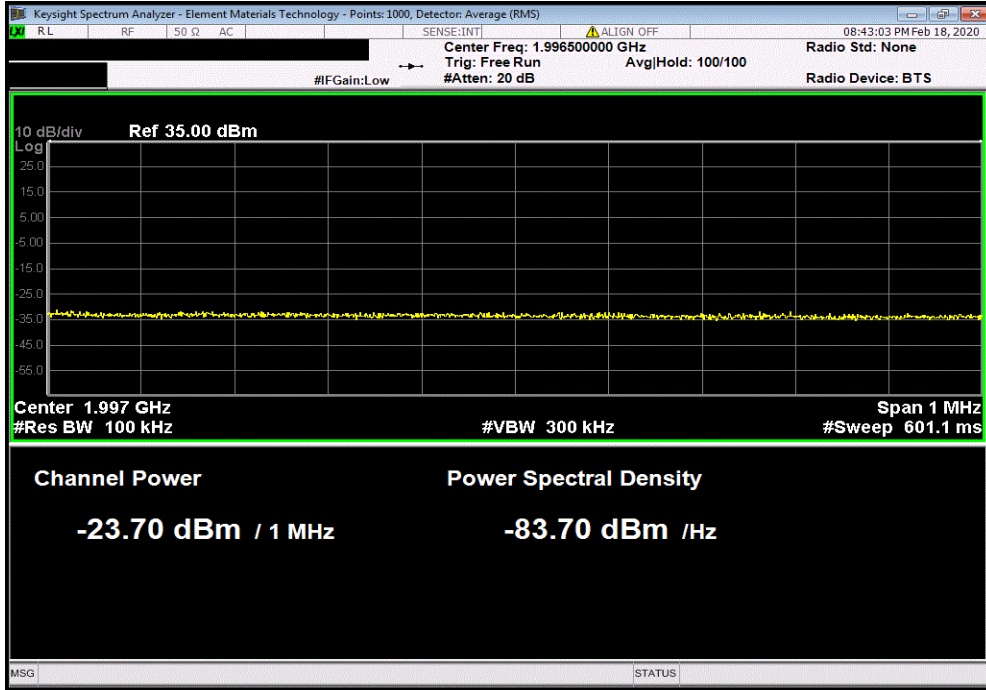


# BAND EDGE COMPLIANCE BAND 25

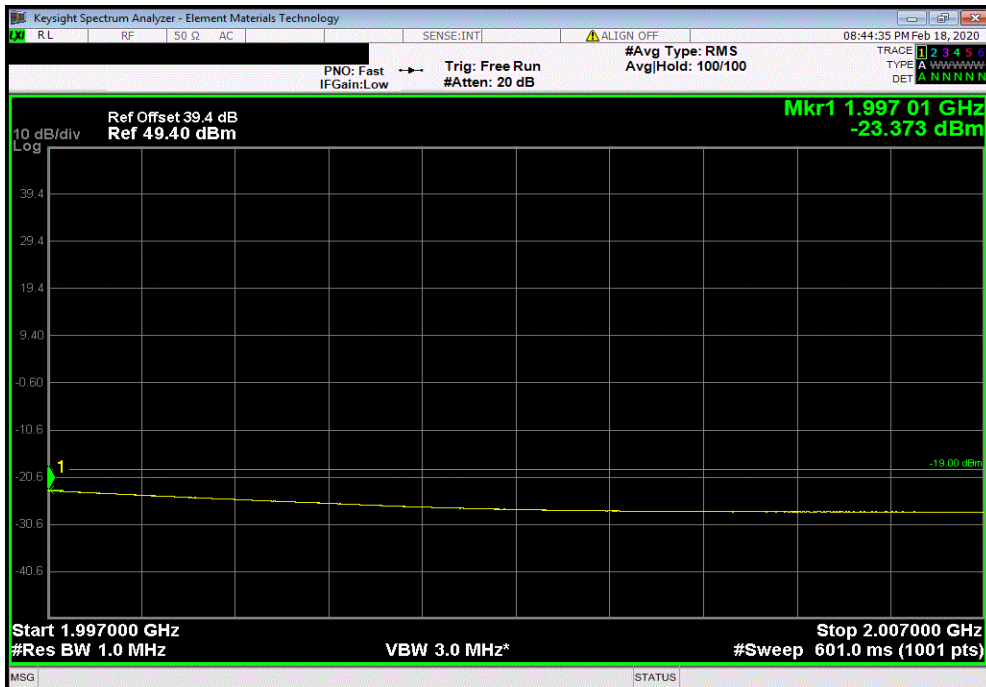


XMI 2019.09.05

5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 1990 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.7	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 1990 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.373	-19	Pass

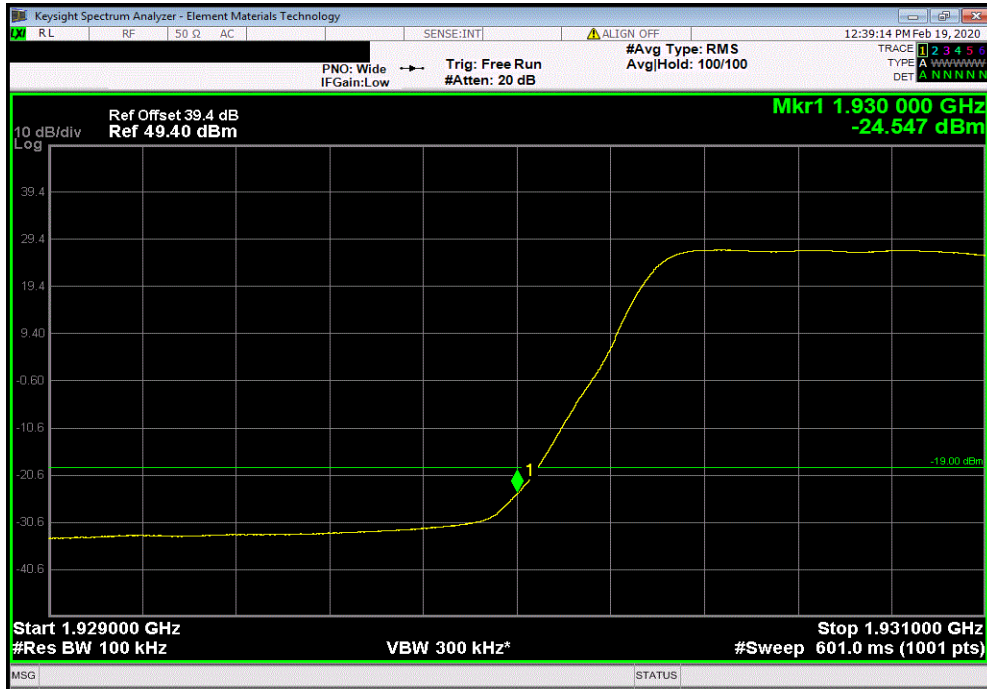


# BAND EDGE COMPLIANCE BAND 25

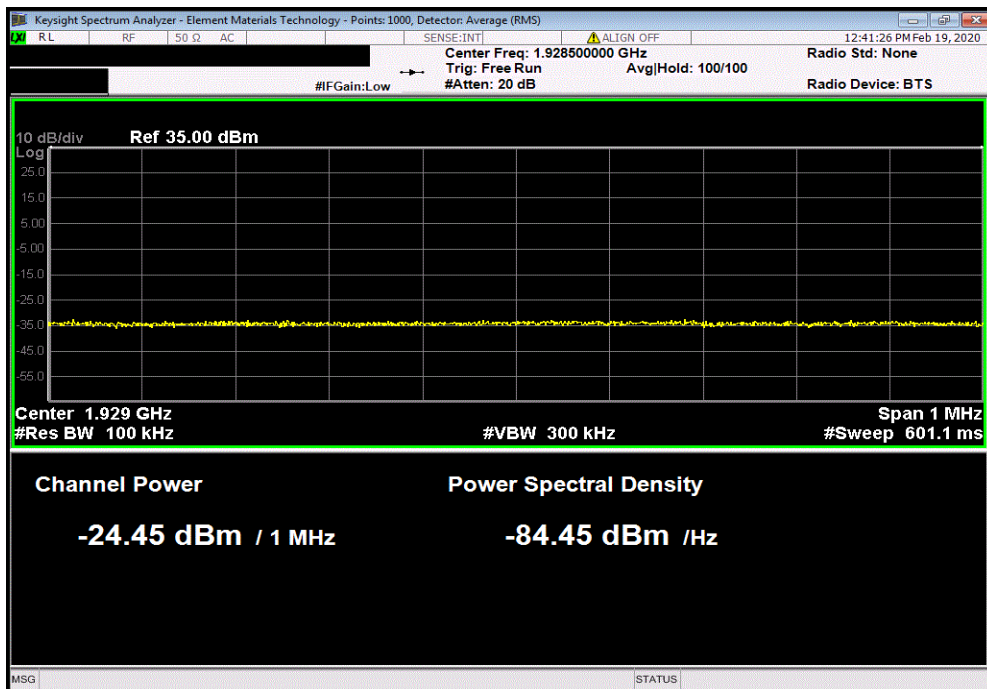


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 1935 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.547	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 1935 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.45	-19	Pass



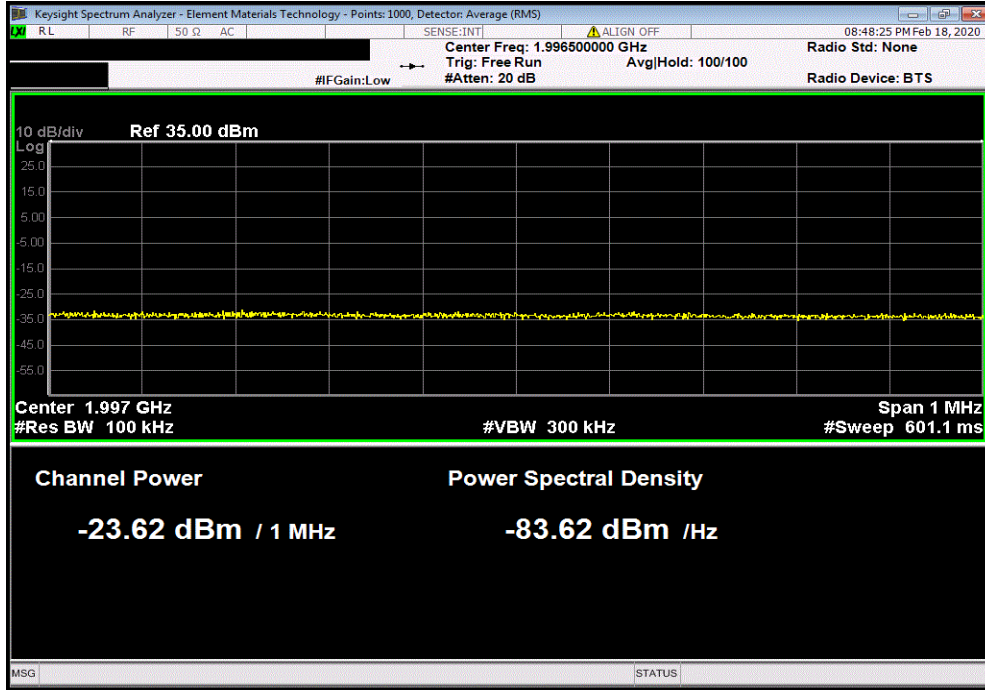


# BAND EDGE COMPLIANCE BAND 25

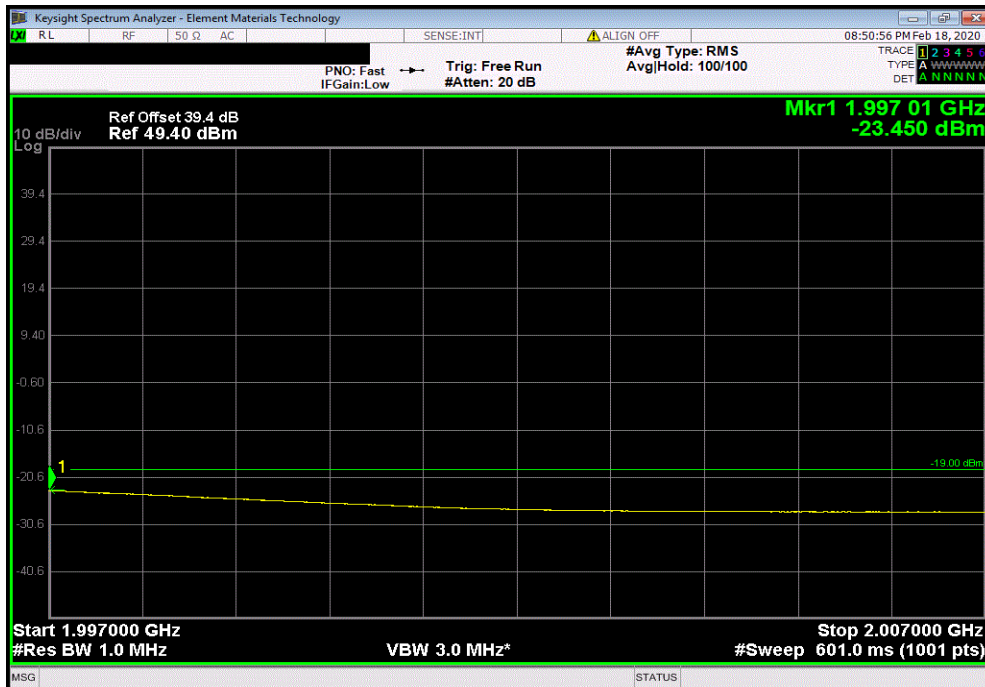


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 1990 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.62	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 1990 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.45	-19	Pass



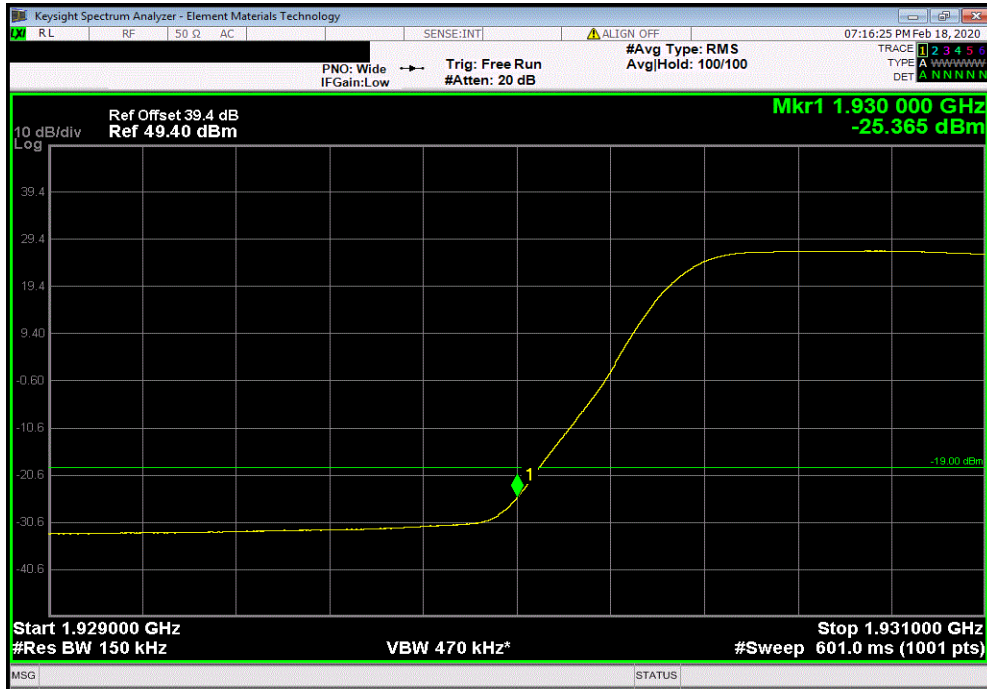


# BAND EDGE COMPLIANCE BAND 25

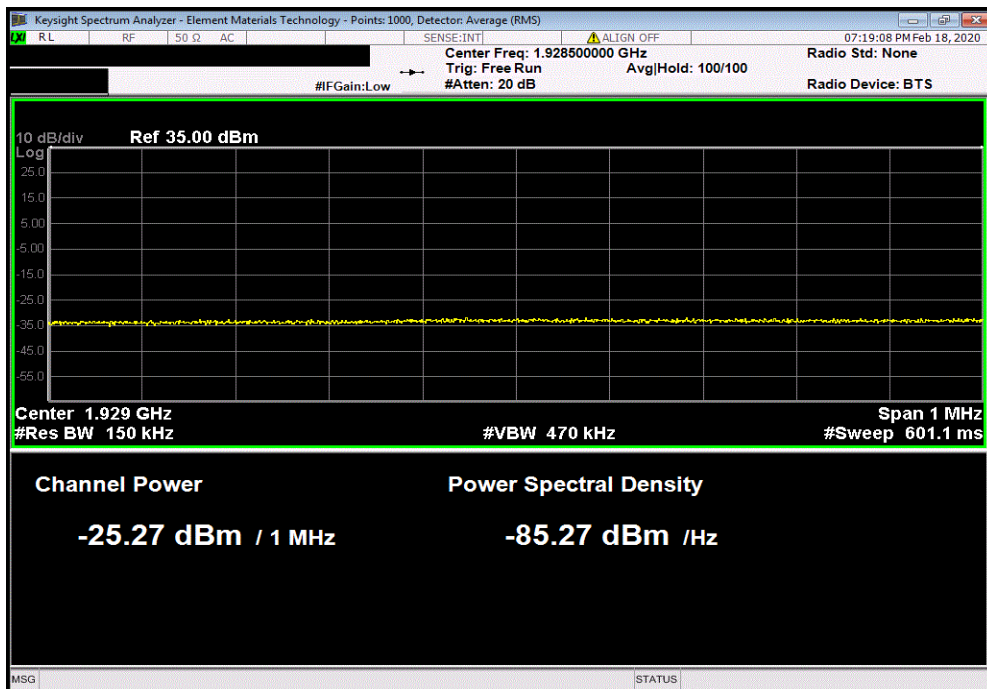


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, QPSK Modulation, Low Channel 1937.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.365	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, QPSK Modulation, Low Channel 1937.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.27	-19	Pass

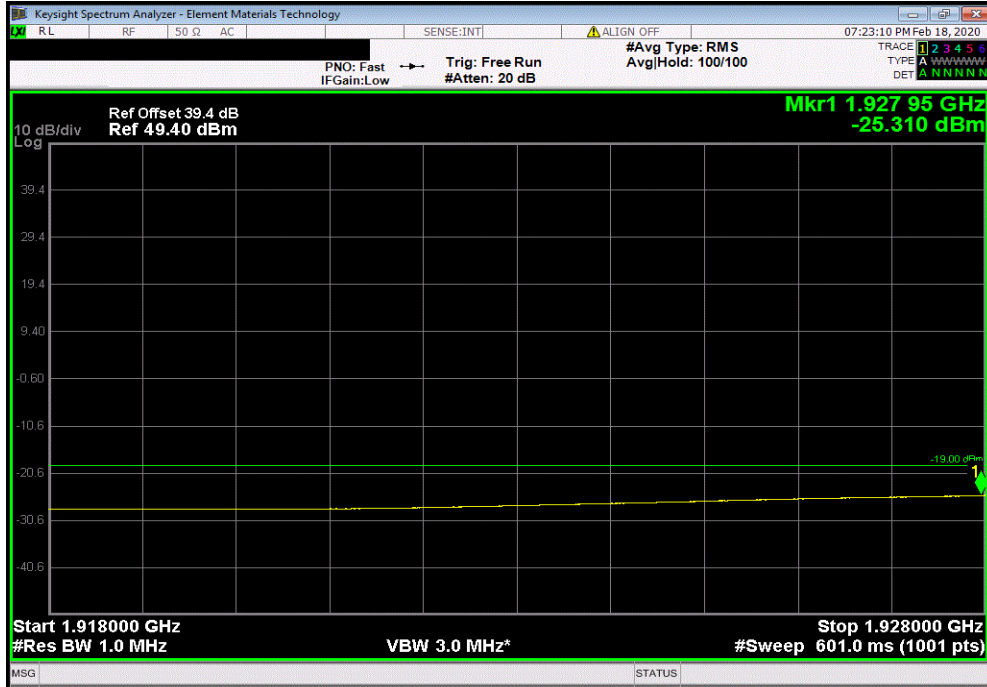


# BAND EDGE COMPLIANCE BAND 25

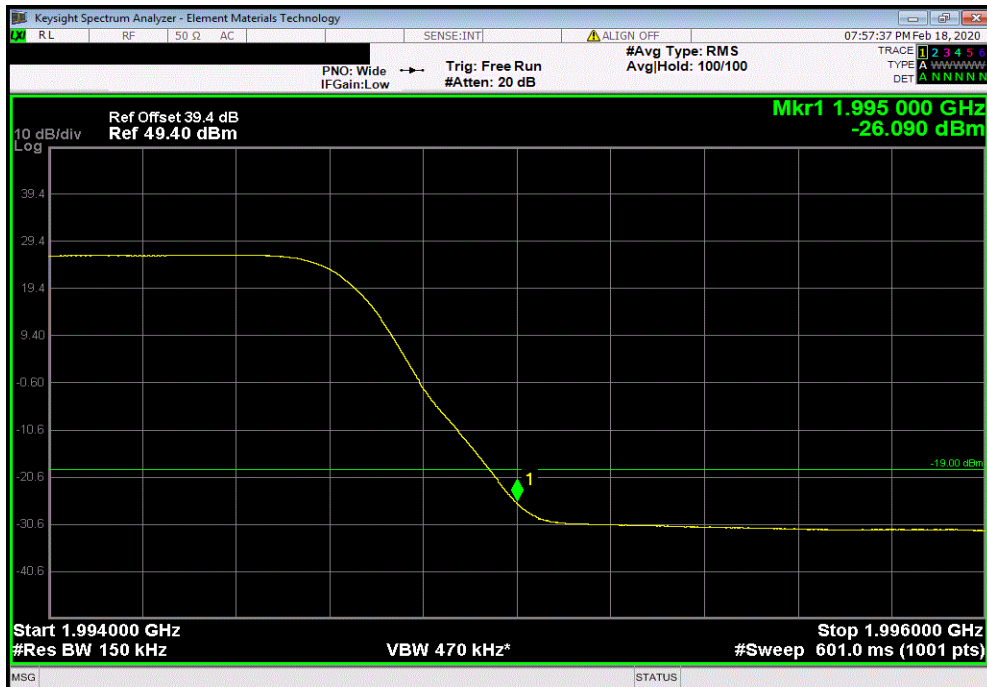


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, QPSK Modulation, Low Channel 1937.5 MHz, Frequency Range 3						
	Value (dBm)	Limit (dBm)	Result			
	-25.31	-19	Pass			



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, QPSK Modulation, High Channel 1987.5 MHz, Frequency Range 1						
	Value (dBm)	Limit (dBm)	Result			
	-26.09	-19	Pass			



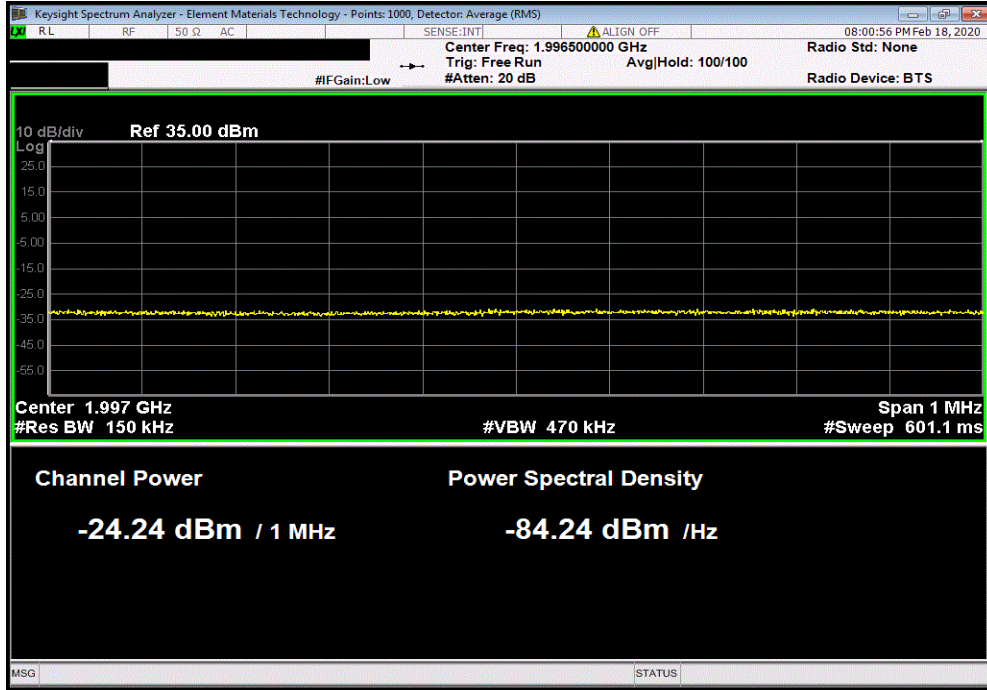


# BAND EDGE COMPLIANCE BAND 25

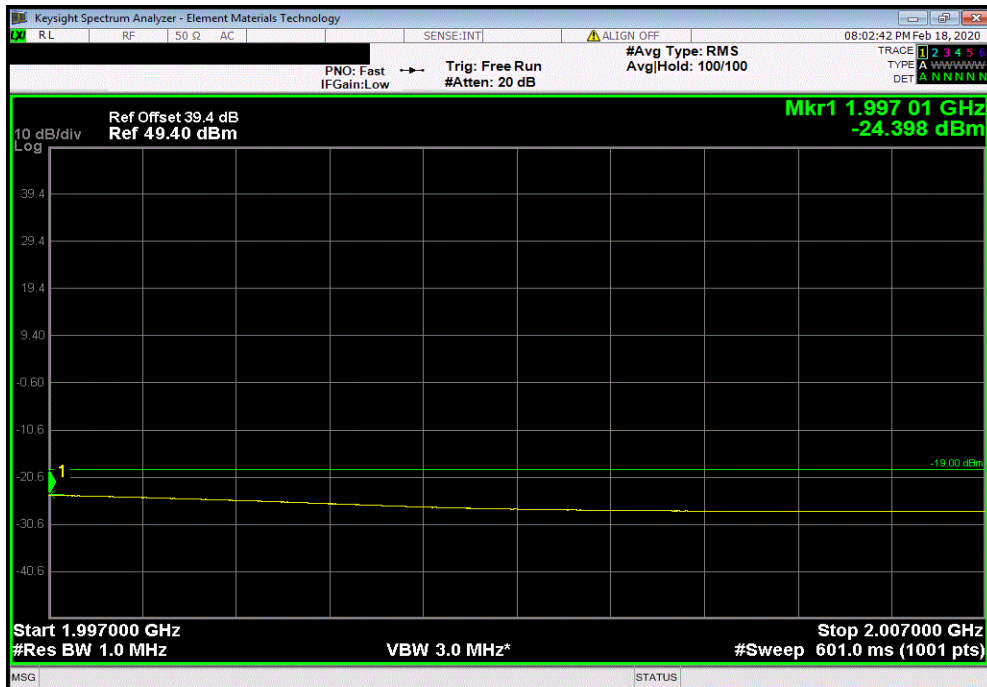


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, QPSK Modulation, High Channel 1987.5 MHz, Frequency Range 2						
	Value (dBm)	Limit (dBm)	Result			
	-24.24	-19	Pass			



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, QPSK Modulation, High Channel 1987.5 MHz, Frequency Range 3						
	Value (dBm)	Limit (dBm)	Result			
	-24.398	-19	Pass			

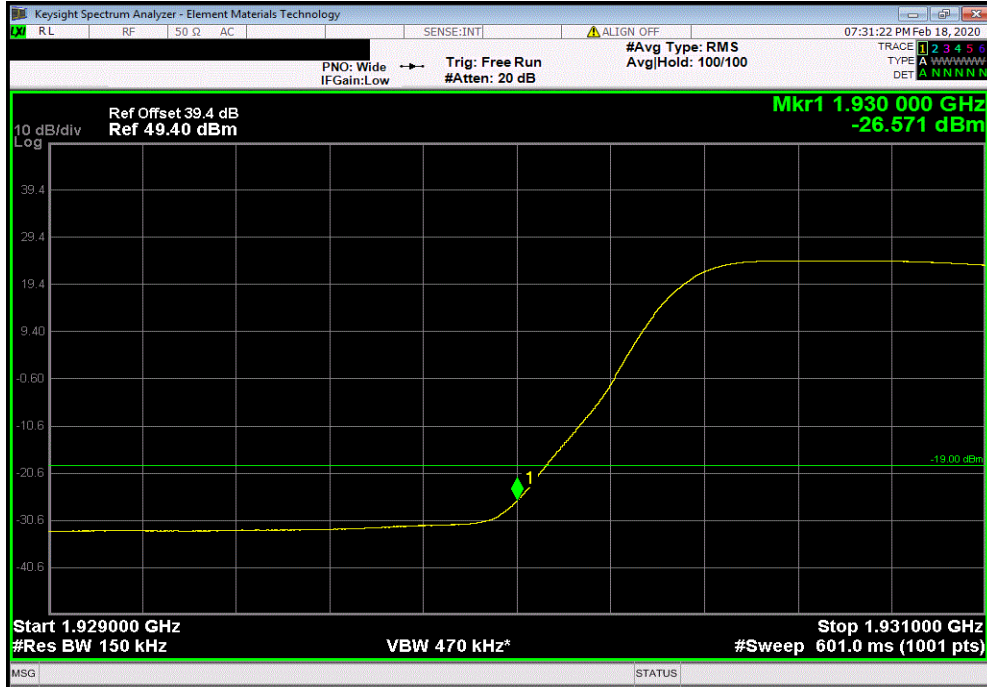


# BAND EDGE COMPLIANCE BAND 25

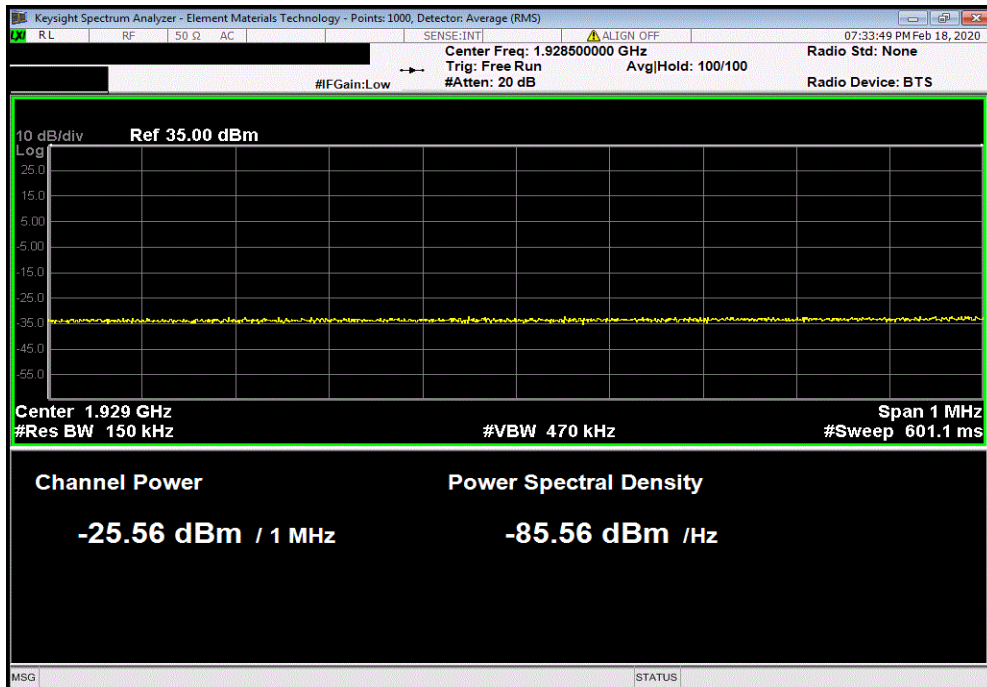


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-26.571	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.56	-19	Pass

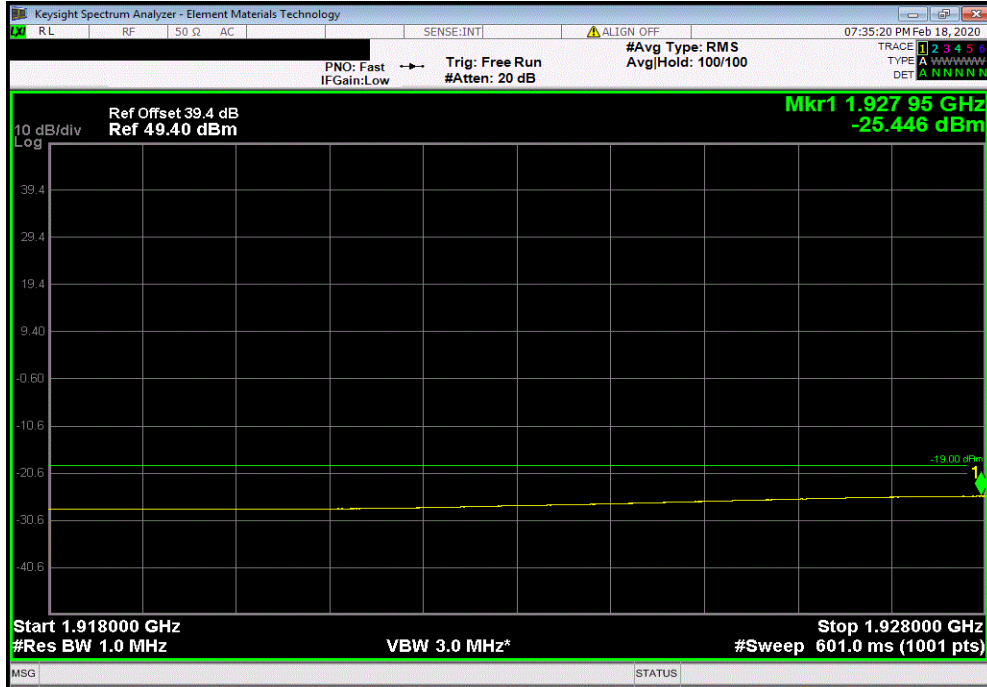


# BAND EDGE COMPLIANCE BAND 25

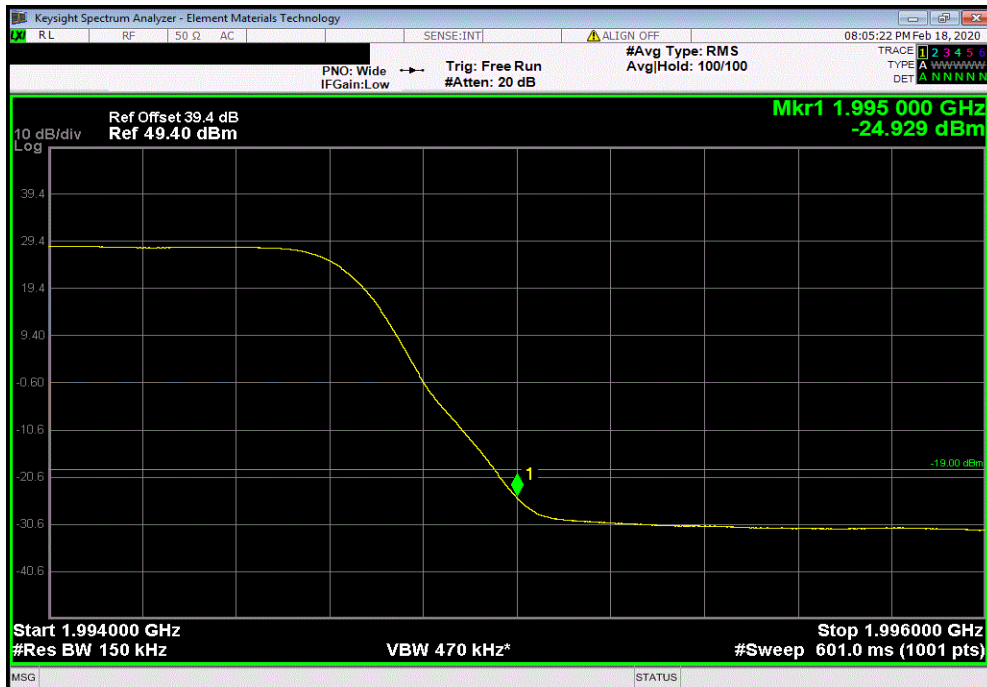


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-25.446	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.929	-19	Pass

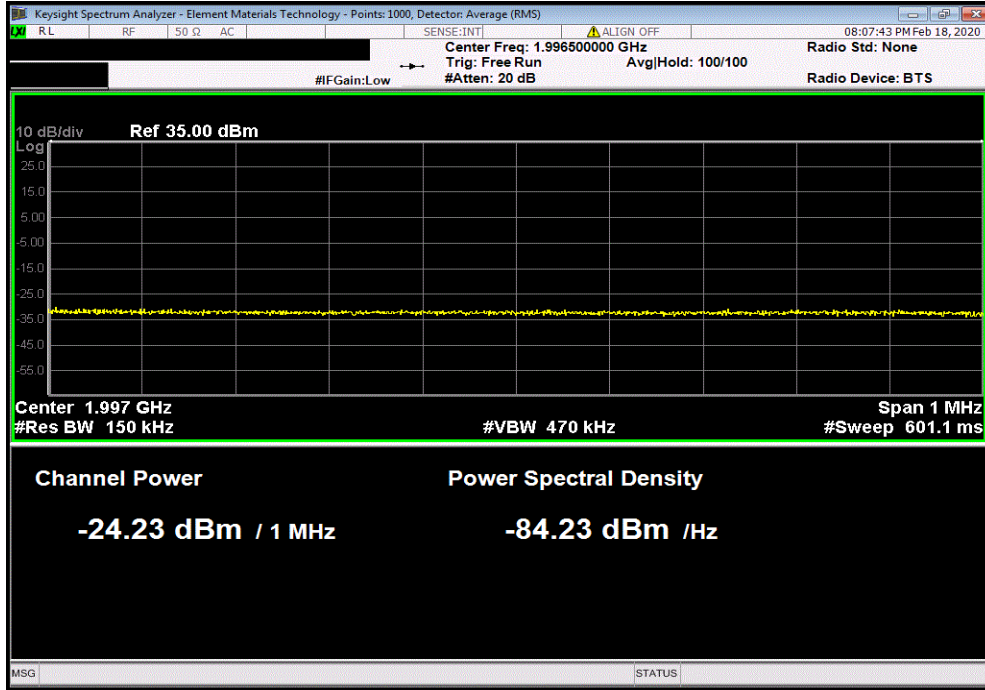


# BAND EDGE COMPLIANCE BAND 25

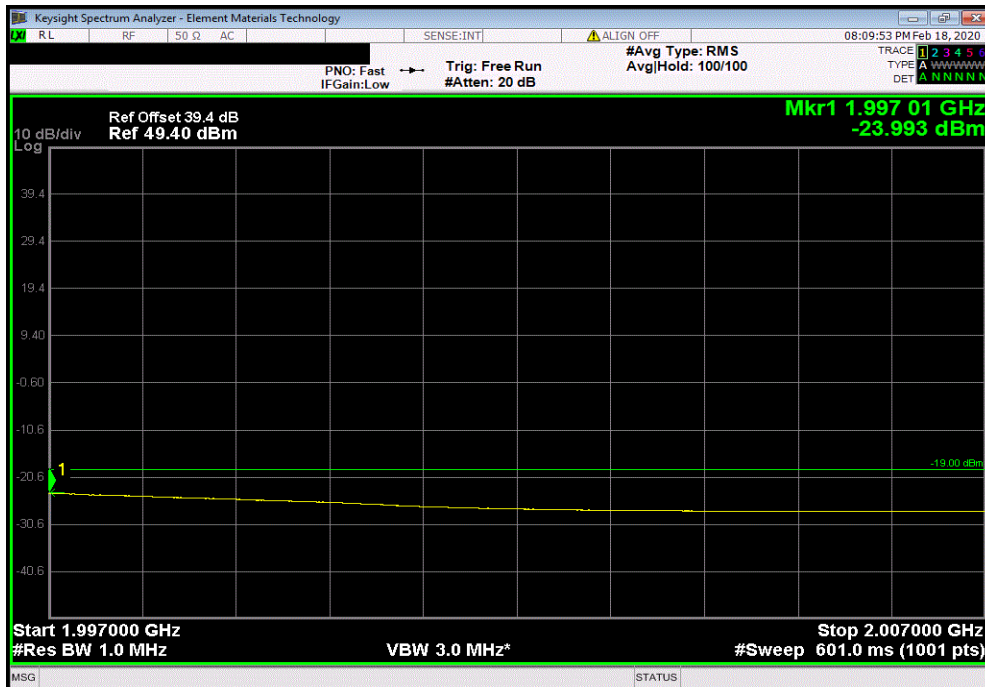


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.23	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.993	-19	Pass

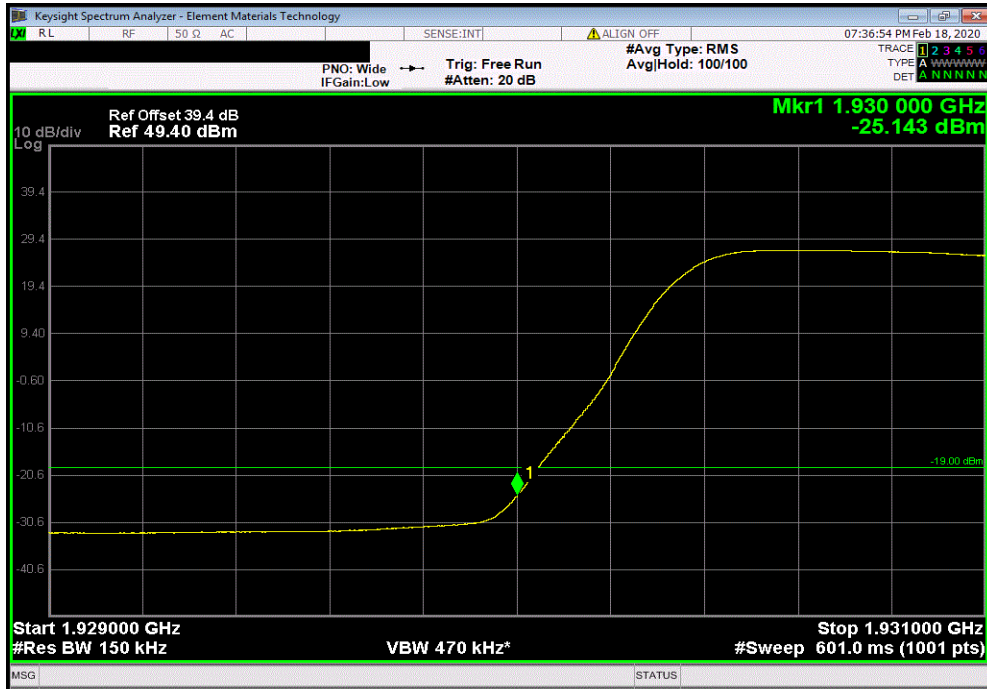


# BAND EDGE COMPLIANCE BAND 25

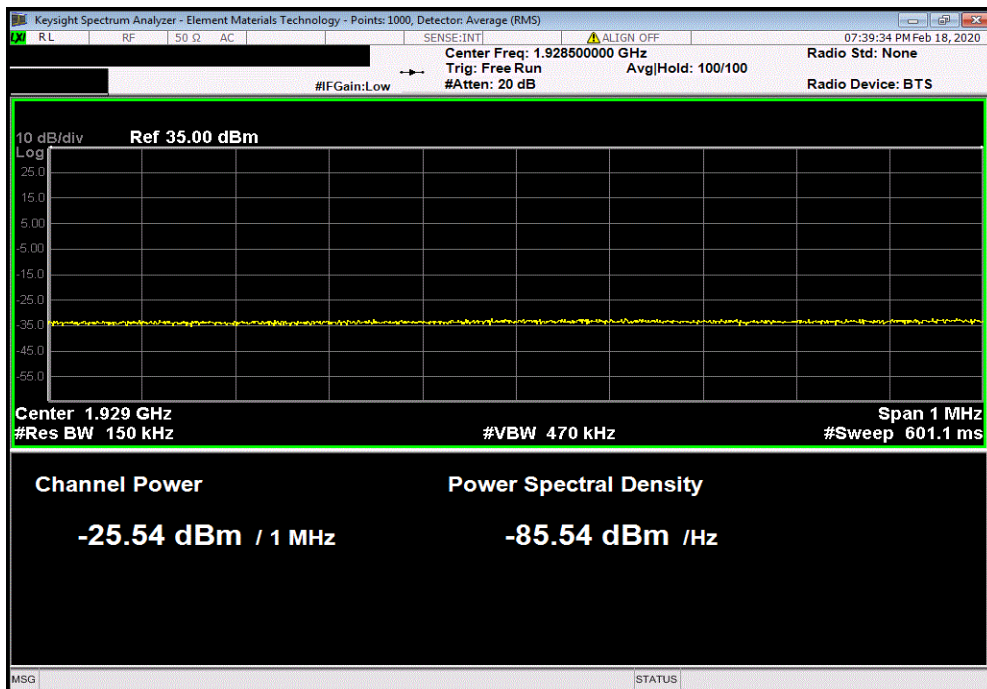


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.143	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.54	-19	Pass



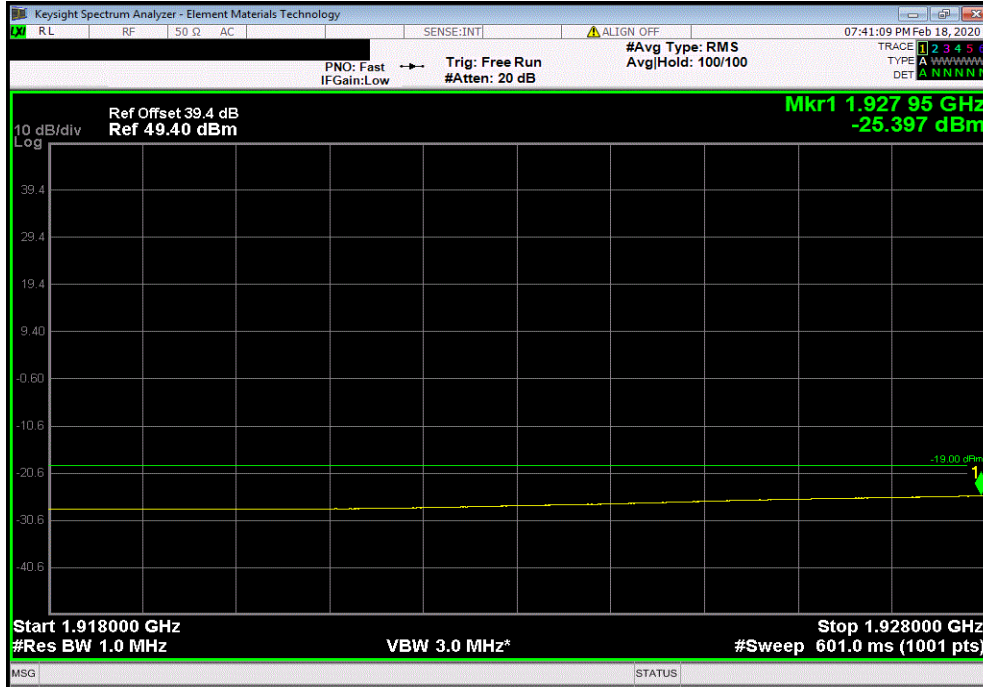


# BAND EDGE COMPLIANCE BAND 25

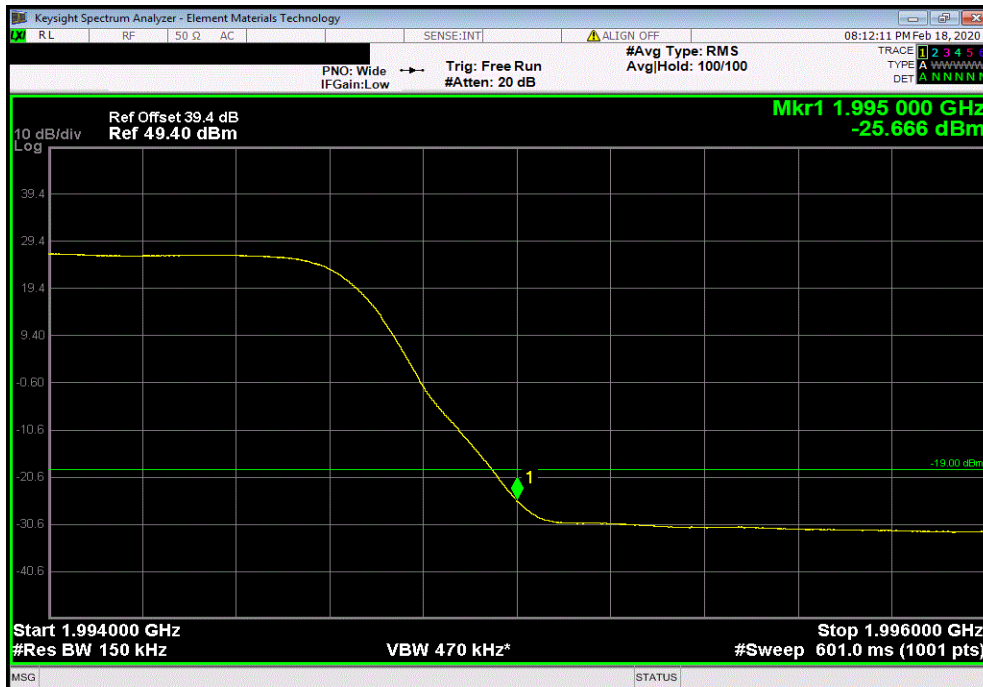


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-25.397	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.666	-19	Pass

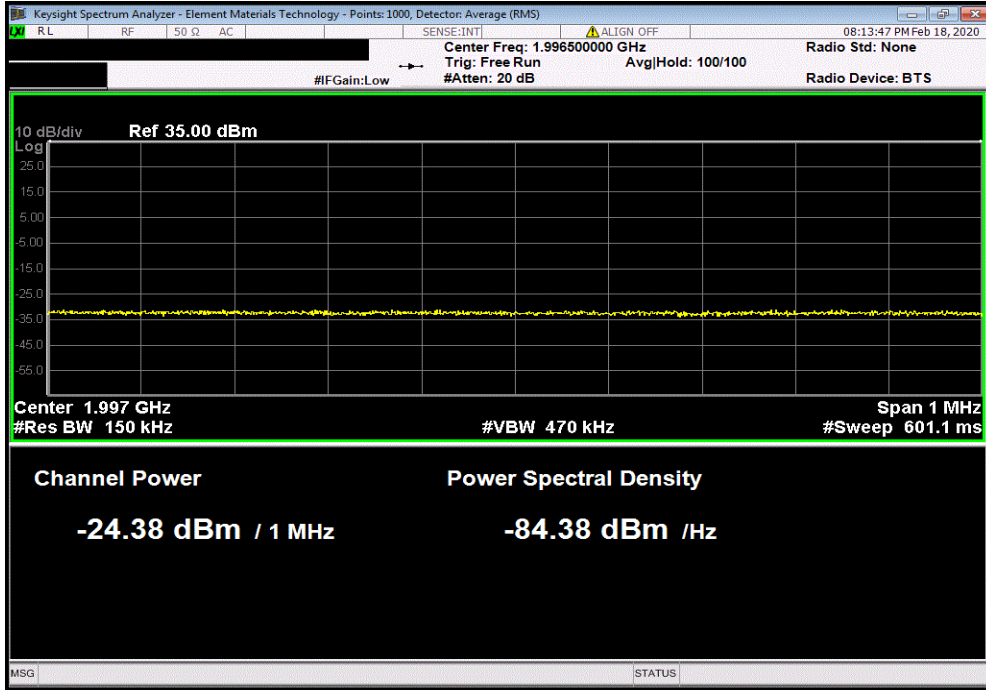


# BAND EDGE COMPLIANCE BAND 25

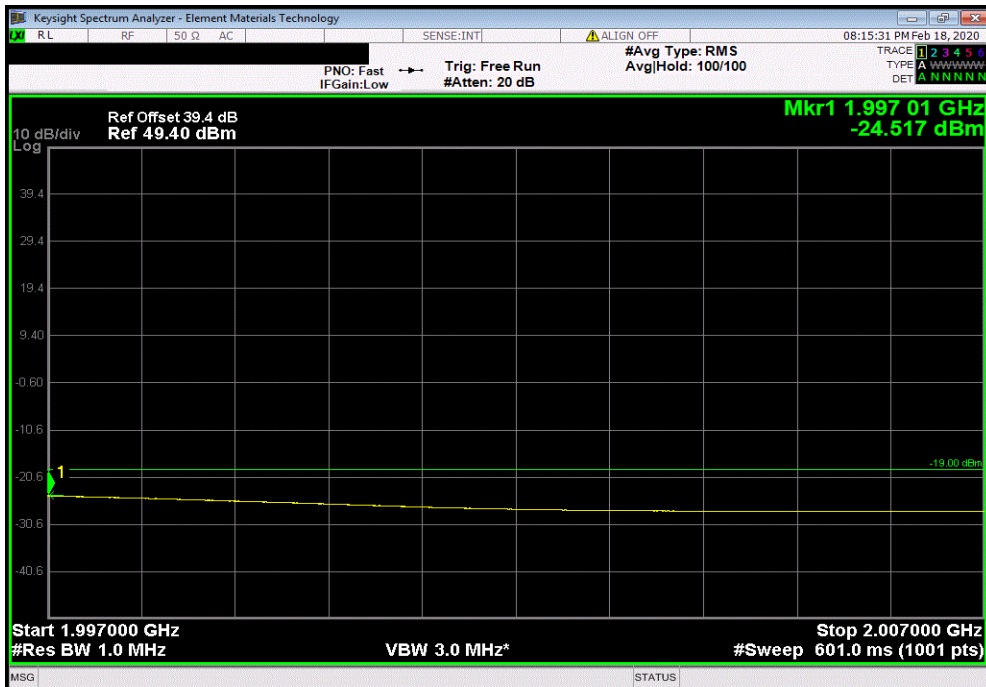


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 2						
	Value (dBm)	Limit (dBm)	Result			
	-24.38	-19	Pass			



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 3						
	Value (dBm)	Limit (dBm)	Result			
	-24.517	-19	Pass			



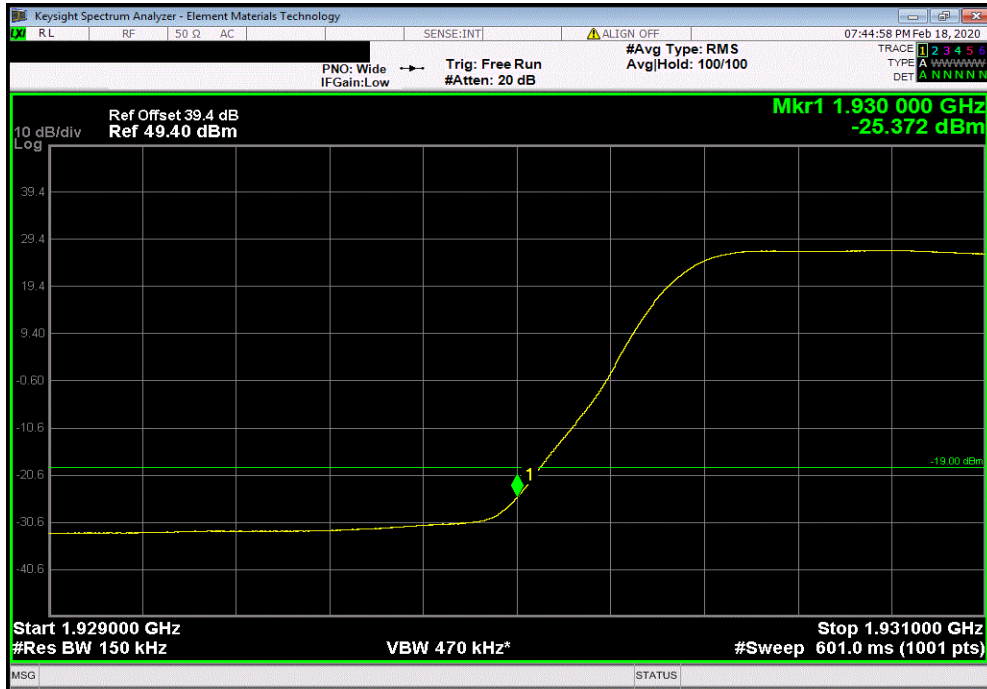


# BAND EDGE COMPLIANCE BAND 25

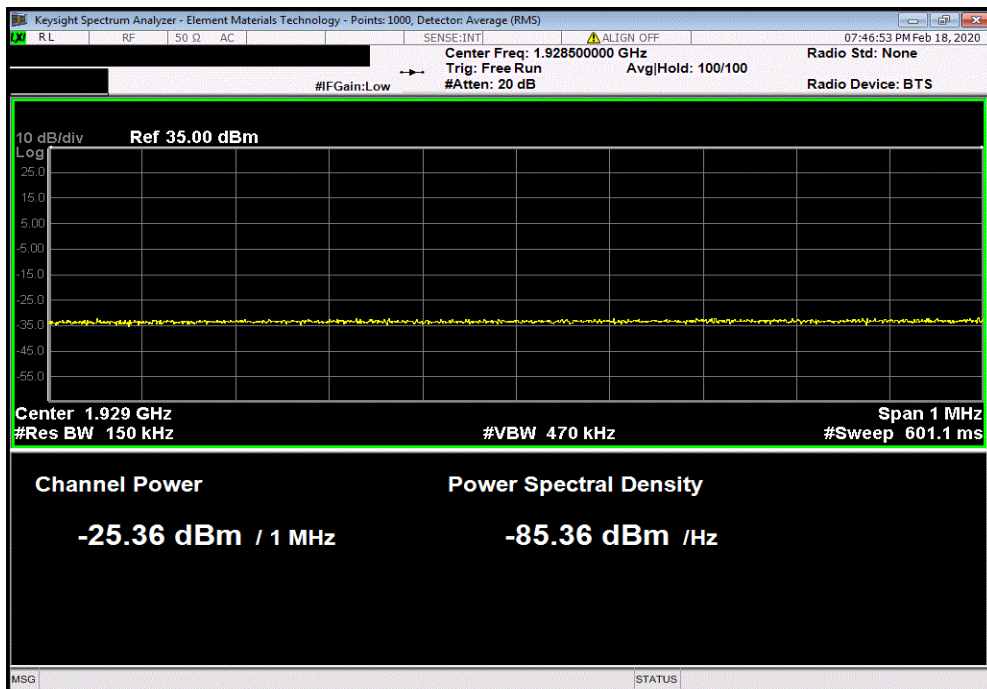


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.372	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.36	-19	Pass

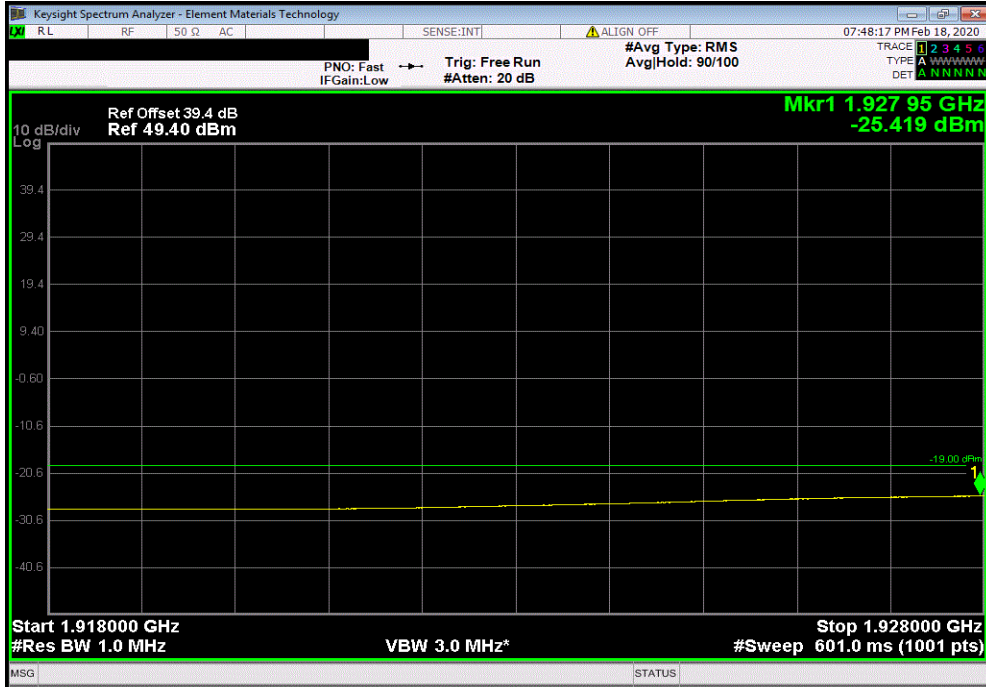


# BAND EDGE COMPLIANCE BAND 25

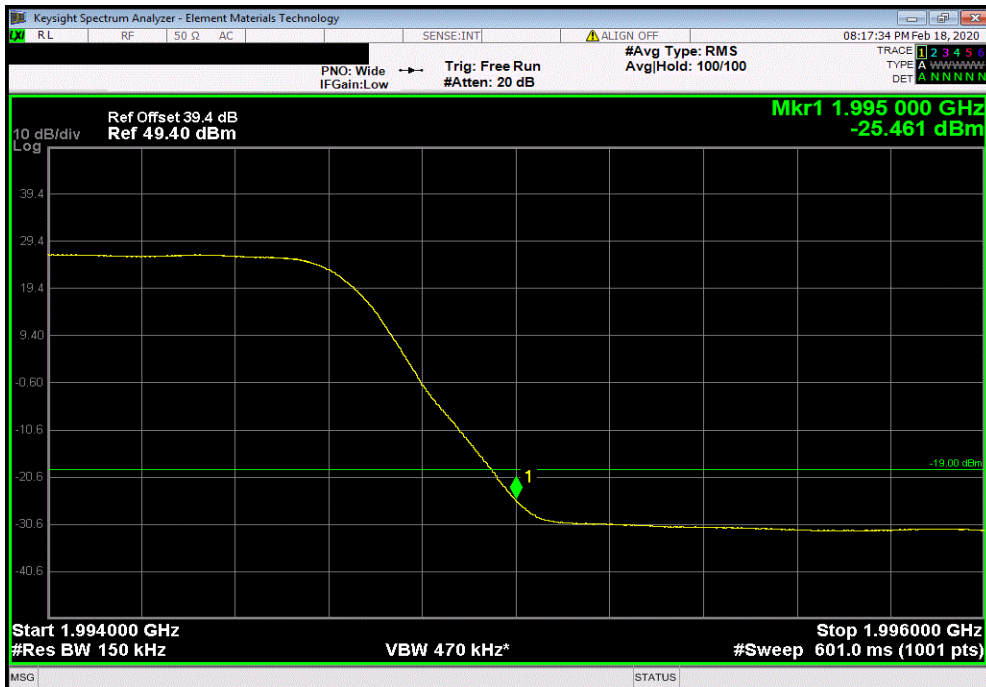


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 1937.5 MHz, Frequency Range 3						
	Value	Limit	Result			
	(dBm)	(dBm)				
	-25.419	-19	Pass			



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 1						
	Value	Limit	Result			
	(dBm)	(dBm)				
	-25.461	-19	Pass			

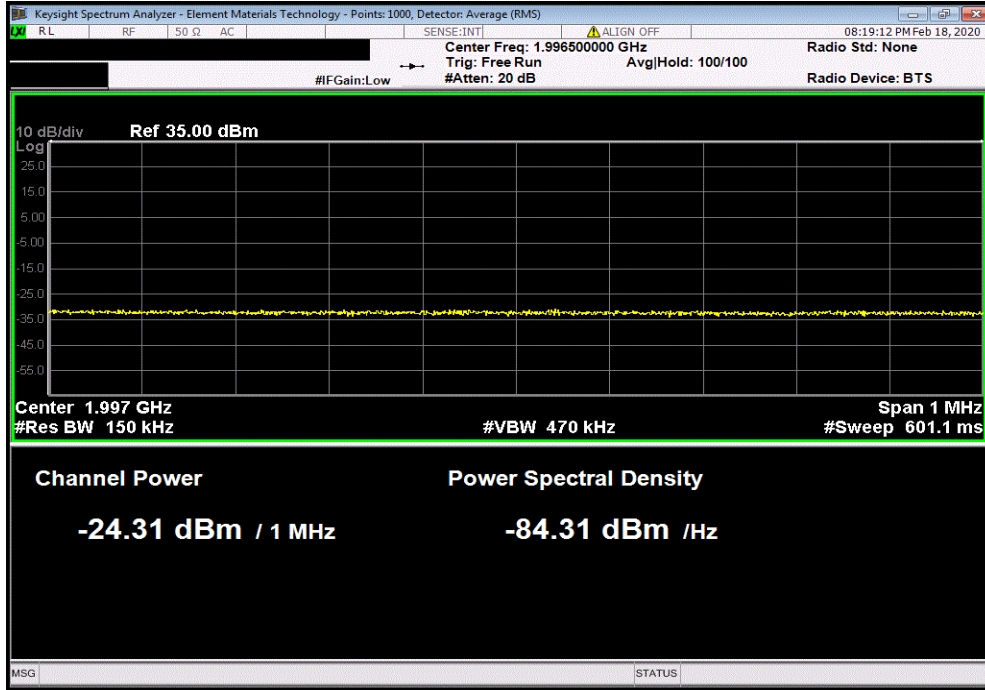


# BAND EDGE COMPLIANCE BAND 25

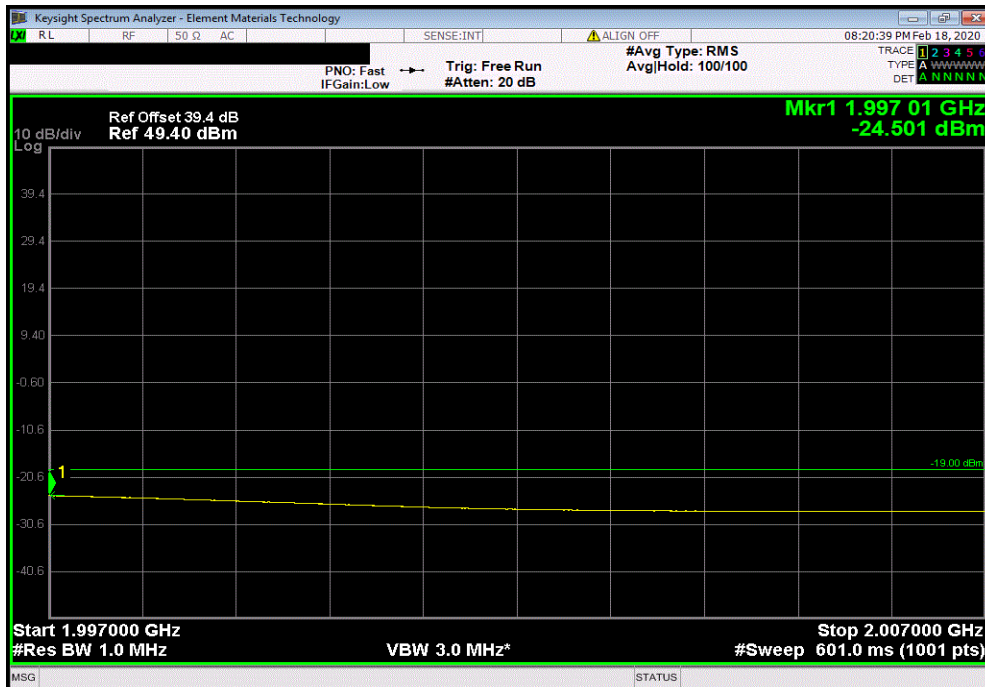


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.31	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 1987.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.501	-19	Pass

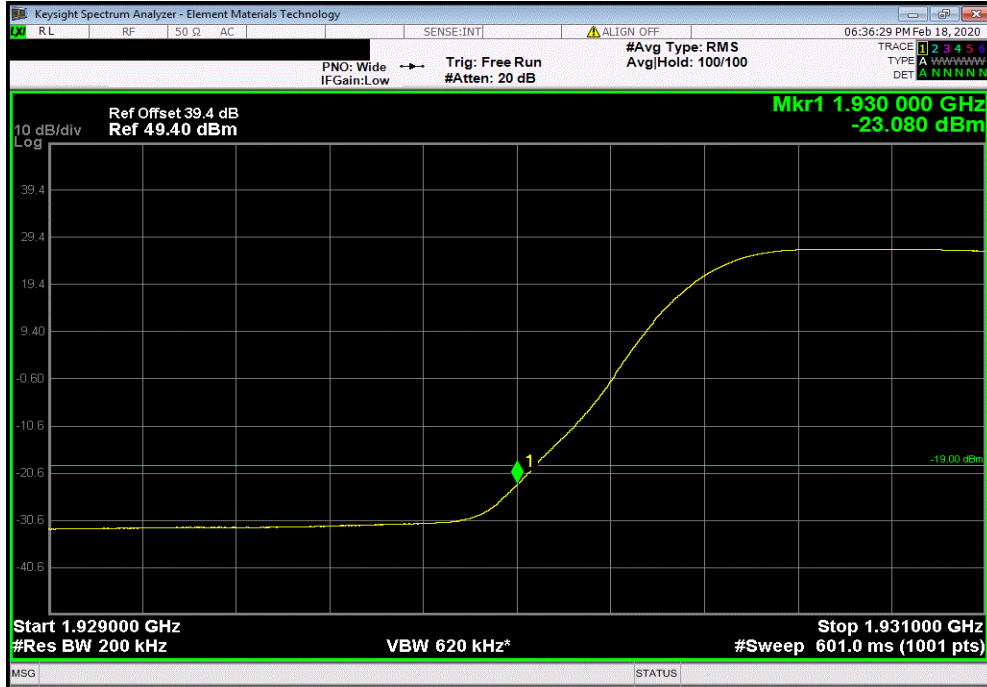


# BAND EDGE COMPLIANCE BAND 25

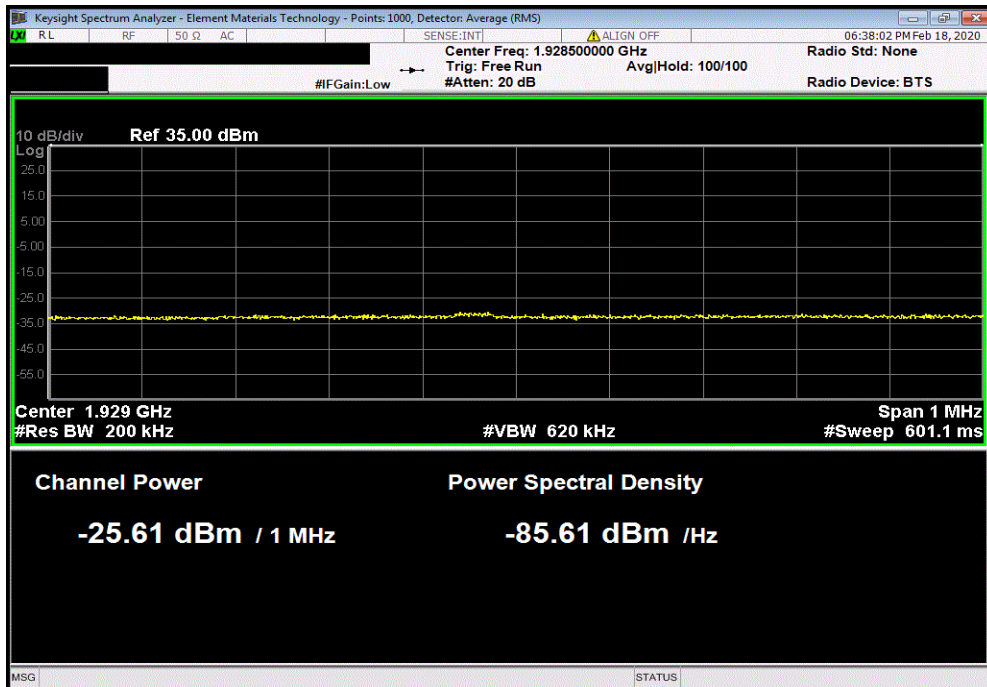


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, QPSK Modulation, Low Channel 1940 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.08	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, QPSK Modulation, Low Channel 1940 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.61	-19	Pass

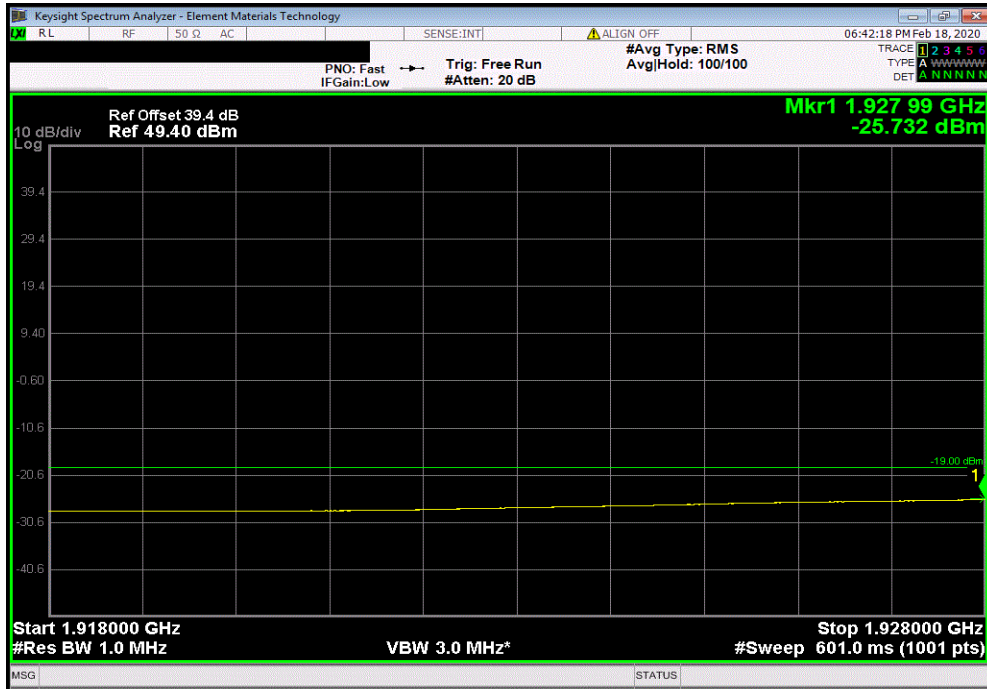


# BAND EDGE COMPLIANCE BAND 25

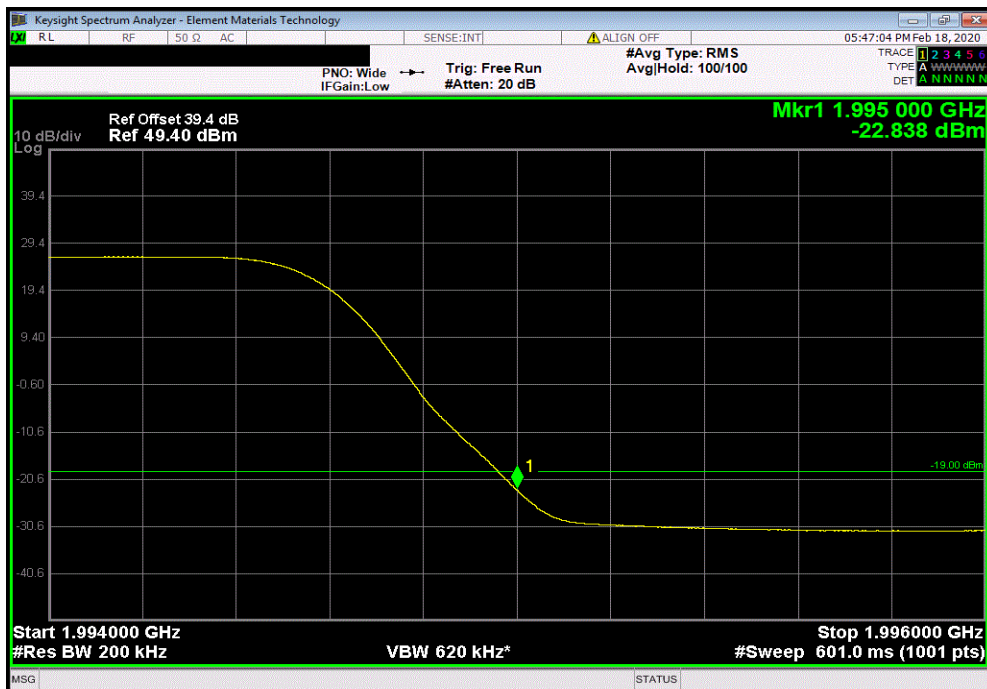


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, QPSK Modulation, Low Channel 1940 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-25.732	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, QPSK Modulation, High Channel 1985 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-22.838	-19	Pass



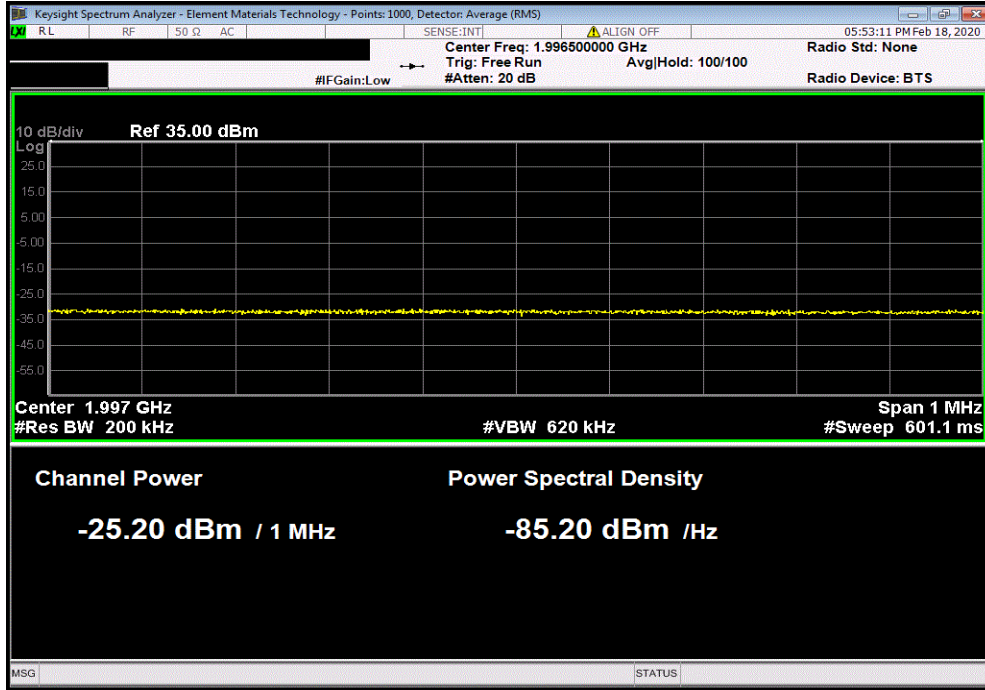


# BAND EDGE COMPLIANCE BAND 25

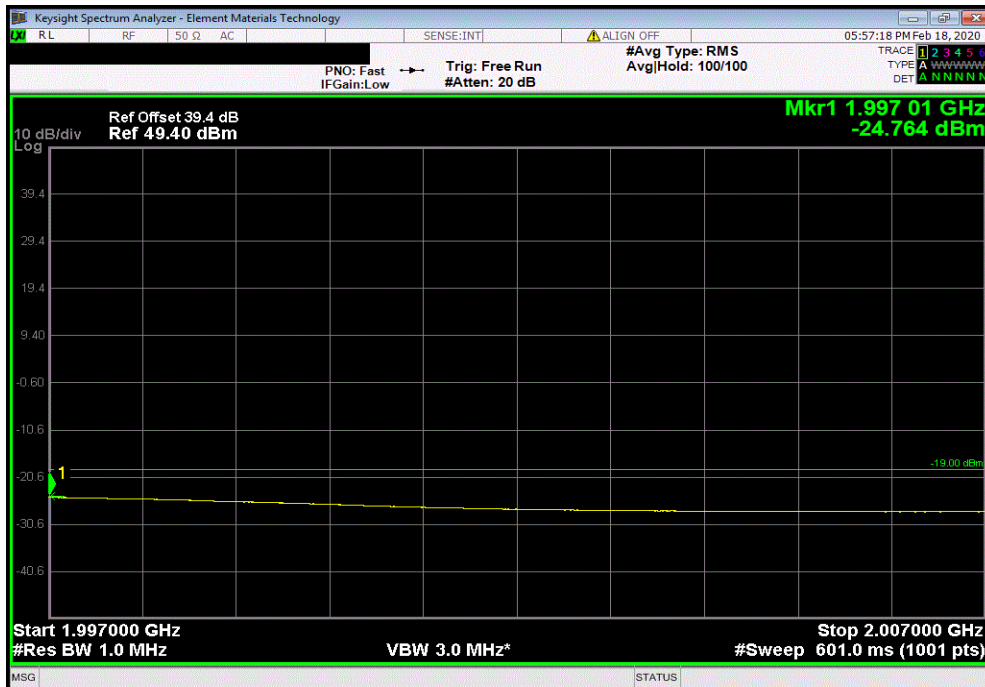


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, QPSK Modulation, High Channel 1985 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.2	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, QPSK Modulation, High Channel 1985 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.764	-19	Pass



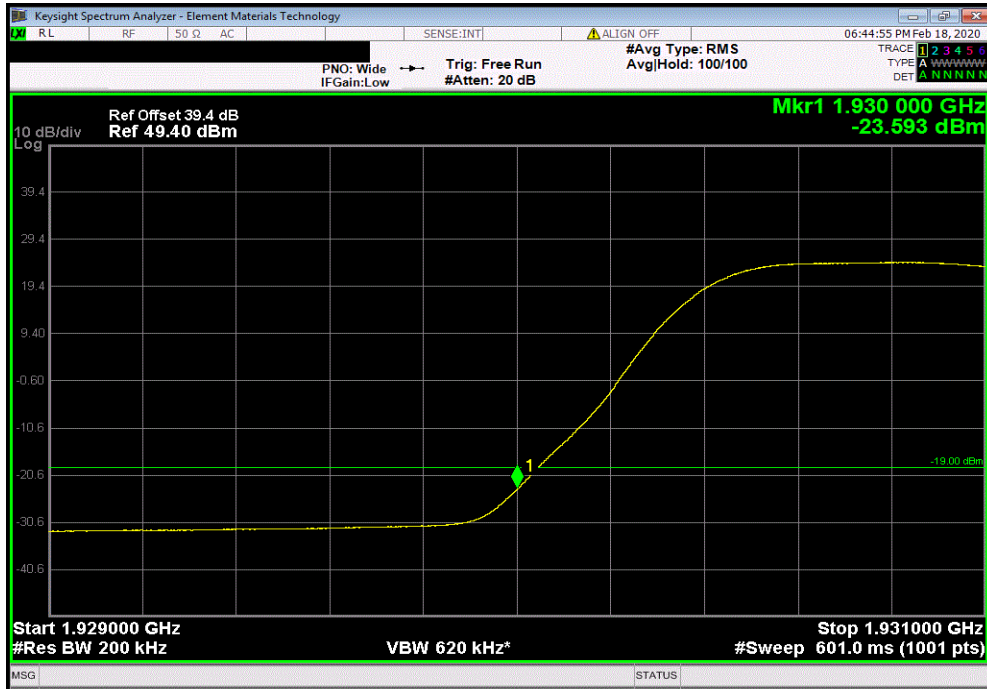


# BAND EDGE COMPLIANCE BAND 25

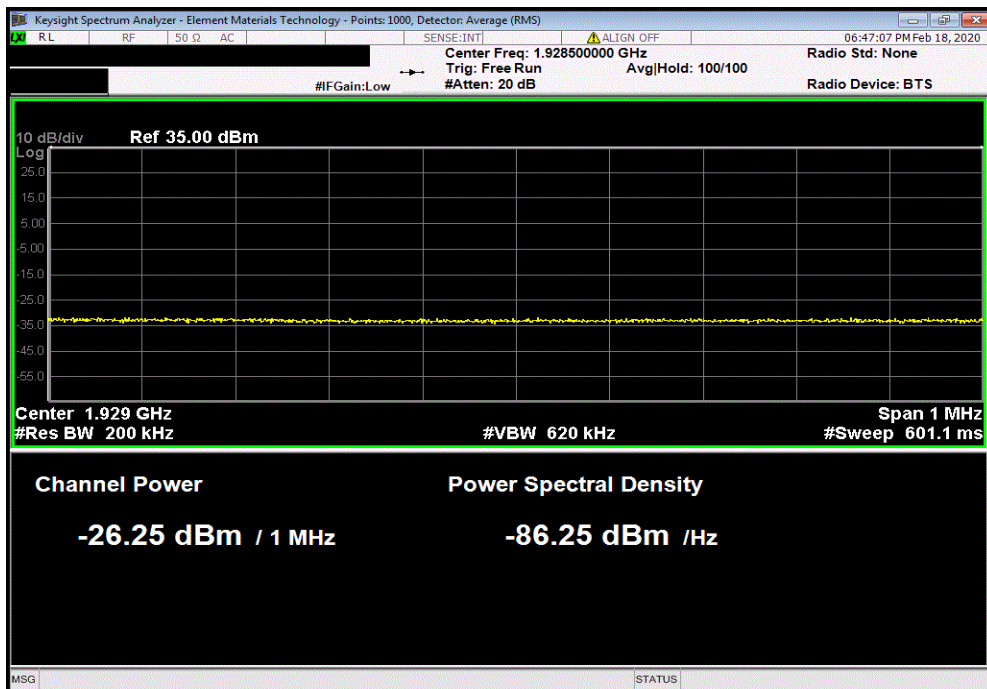


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 1940 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.593	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 1940 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.25	-19	Pass



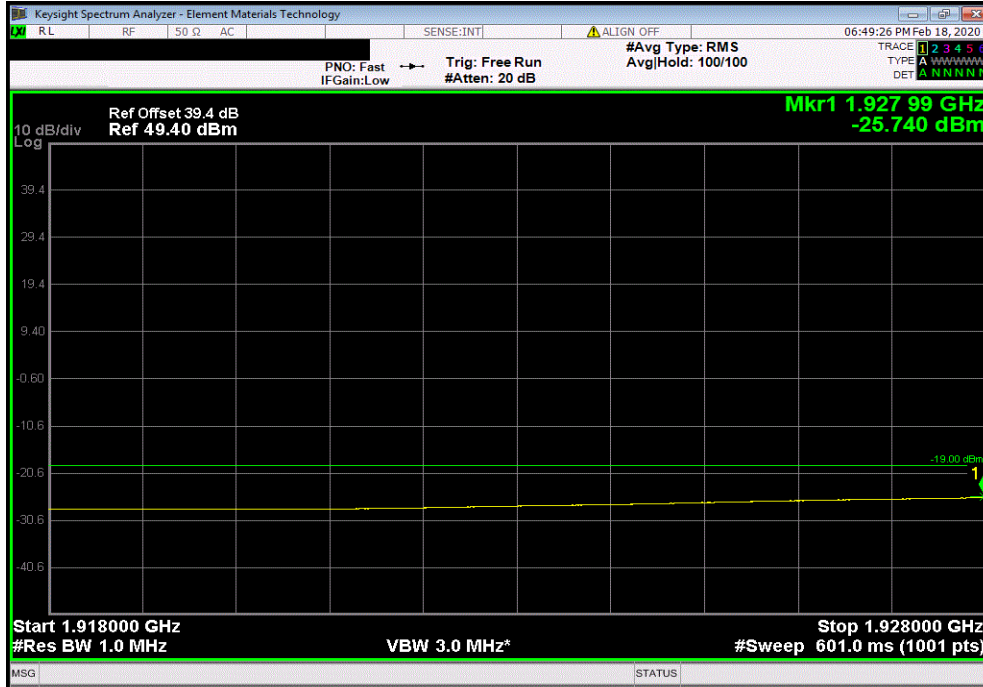
# BAND EDGE COMPLIANCE BAND 25



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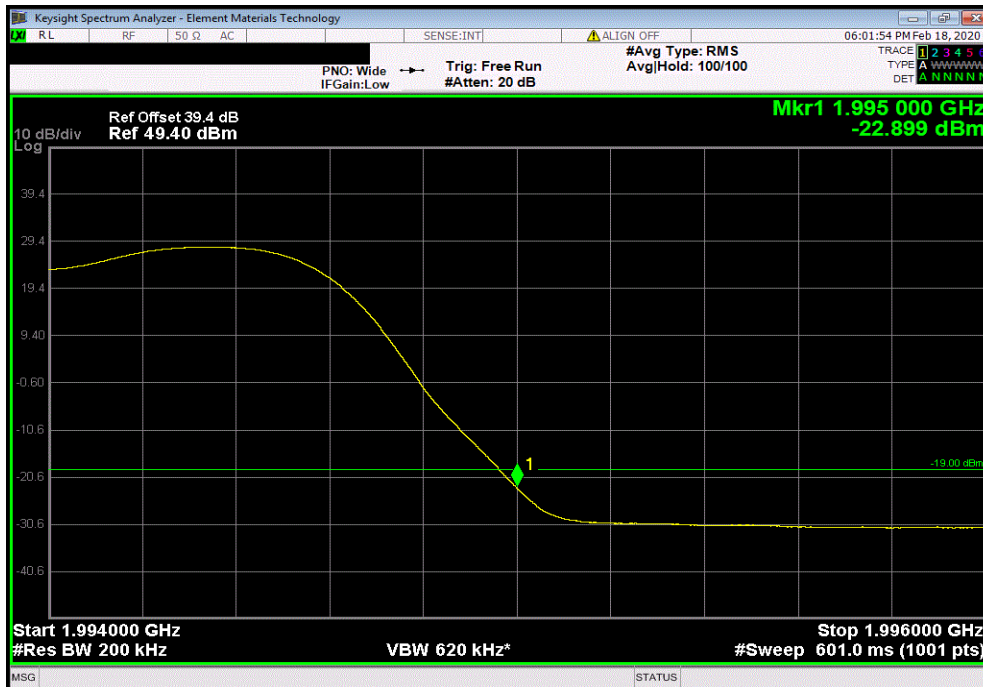
5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 1940 MHz, Frequency Range 3

	Value (dBm)	Limit (dBm)	Result
	-25.74	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 1985 MHz, Frequency Range 1

	Value (dBm)	Limit (dBm)	Result
	-22.899	-19	Pass

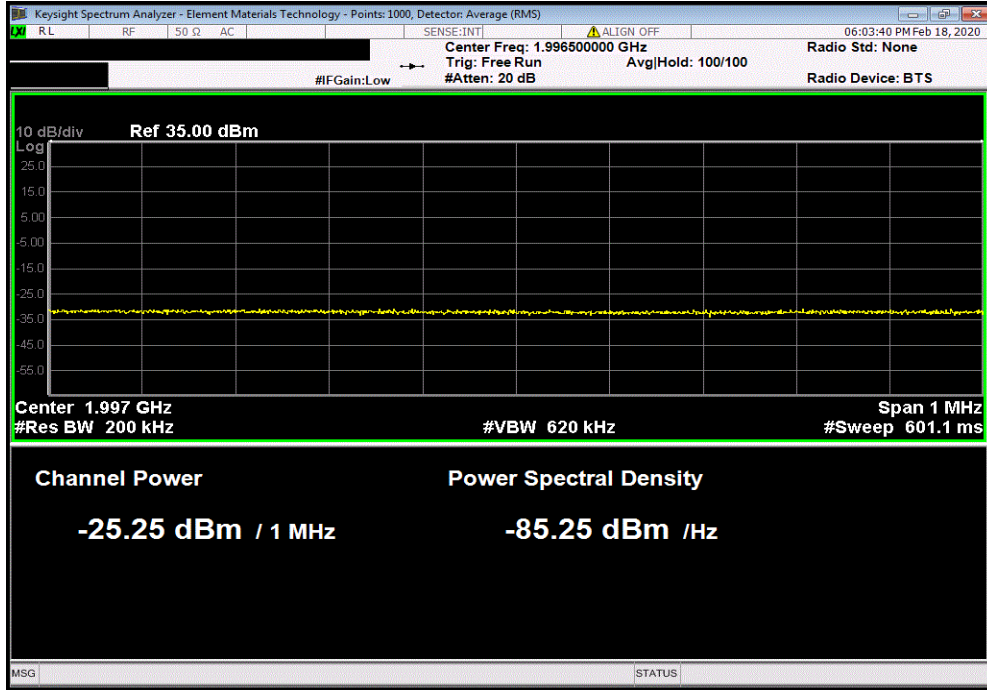


# BAND EDGE COMPLIANCE BAND 25

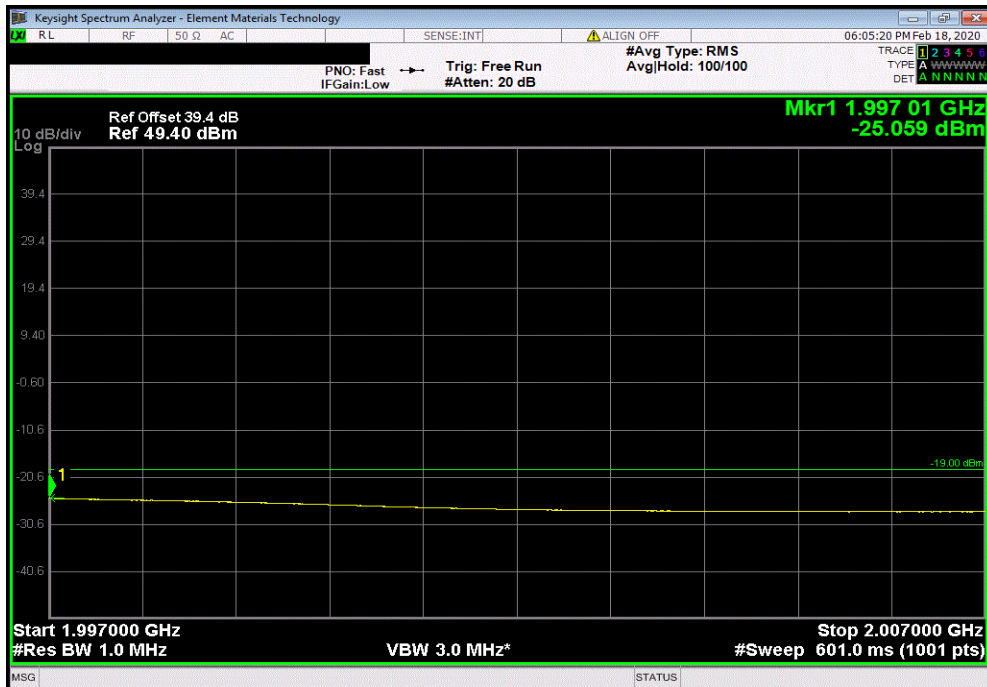


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 1985 MHz, Frequency Range 2						
	Value (dBm)	Limit (dBm)	Result			
	-25.25	-19	Pass			



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 1985 MHz, Frequency Range 3						
	Value (dBm)	Limit (dBm)	Result			
	-25.059	-19	Pass			

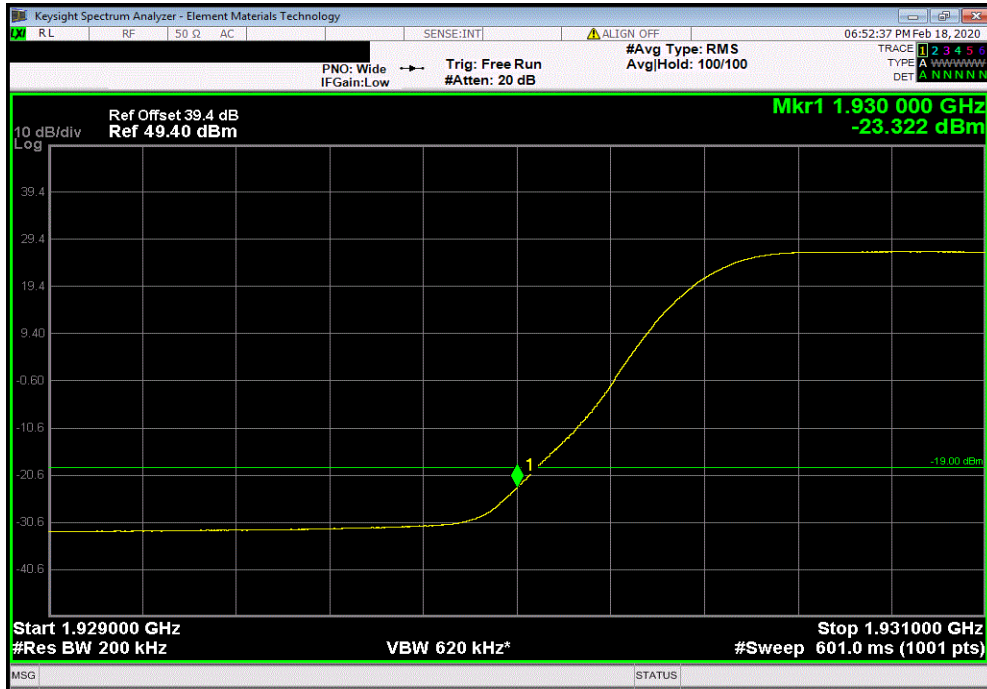


# BAND EDGE COMPLIANCE BAND 25

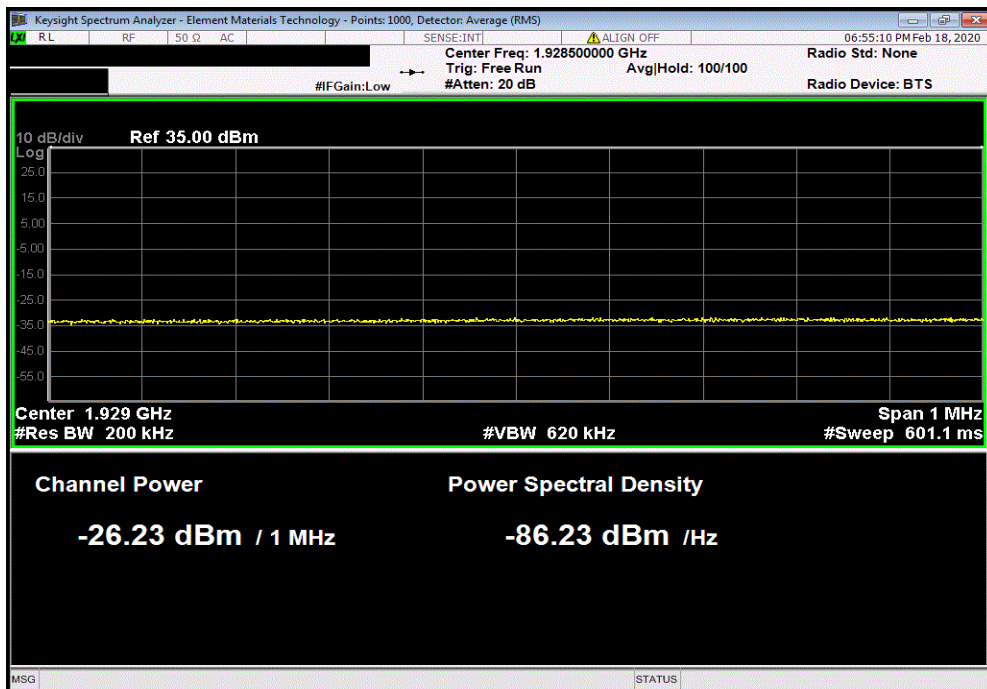


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 1940 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.322	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 1940 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.23	-19	Pass

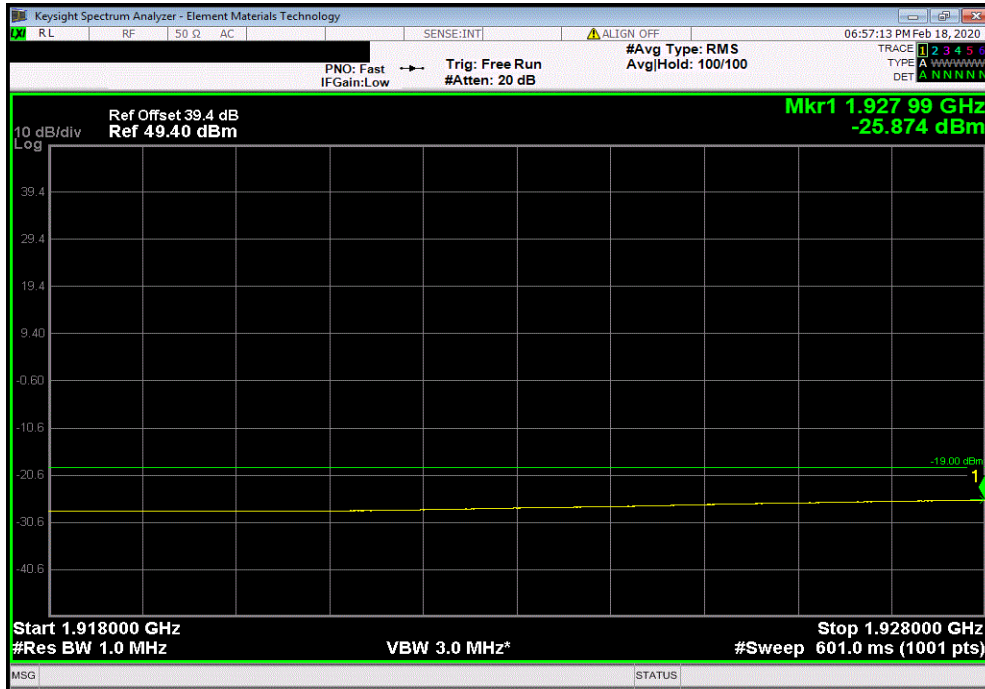


# BAND EDGE COMPLIANCE BAND 25

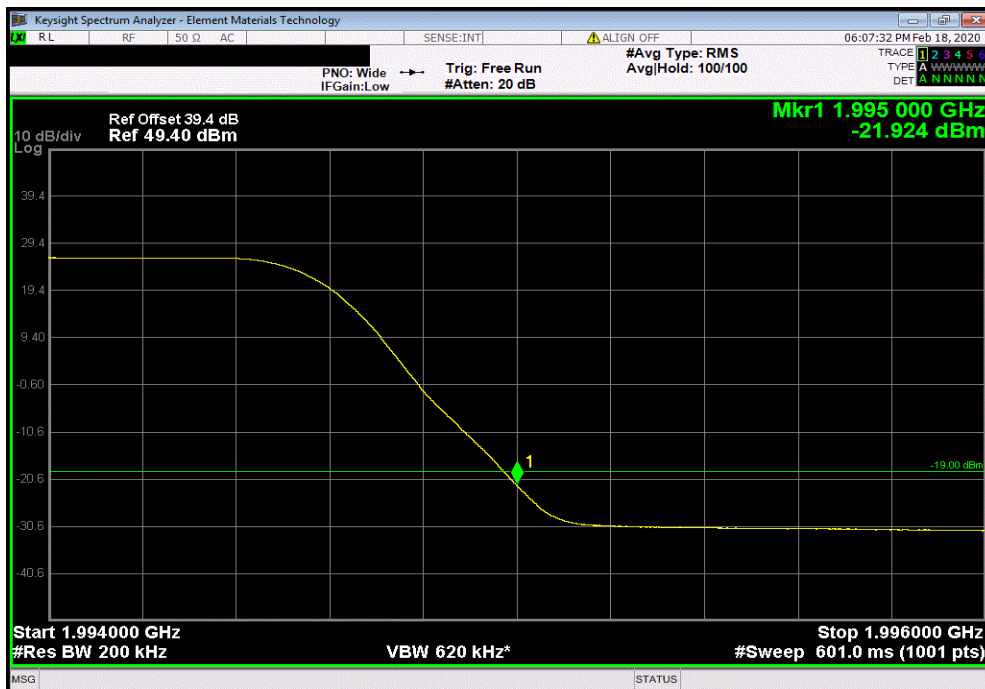


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 1940 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-25.874	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 1985 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-21.924	-19	Pass



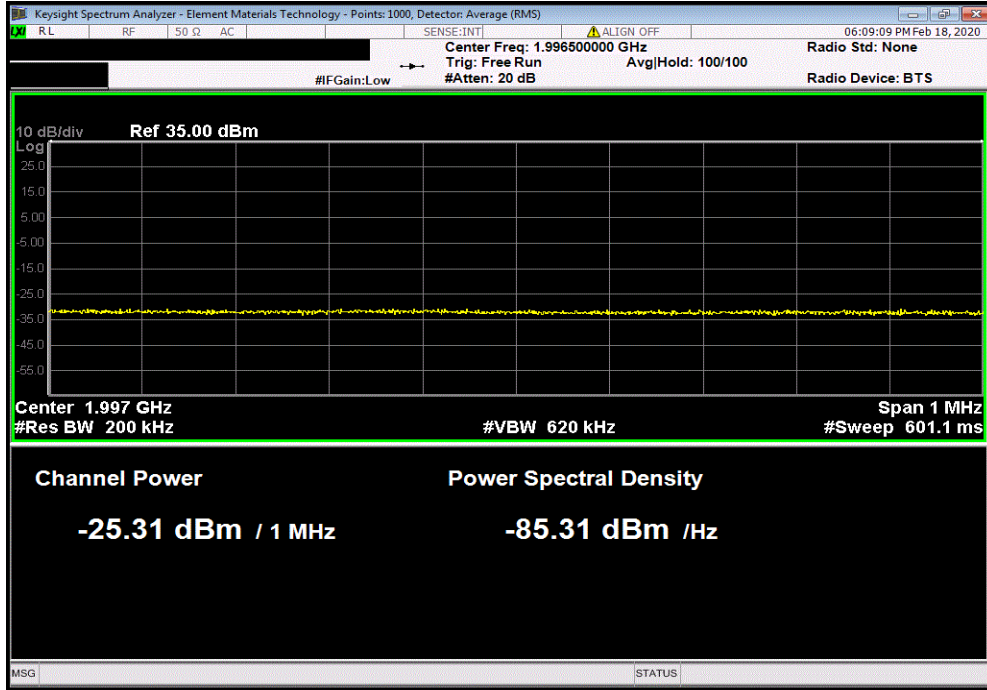


# BAND EDGE COMPLIANCE BAND 25

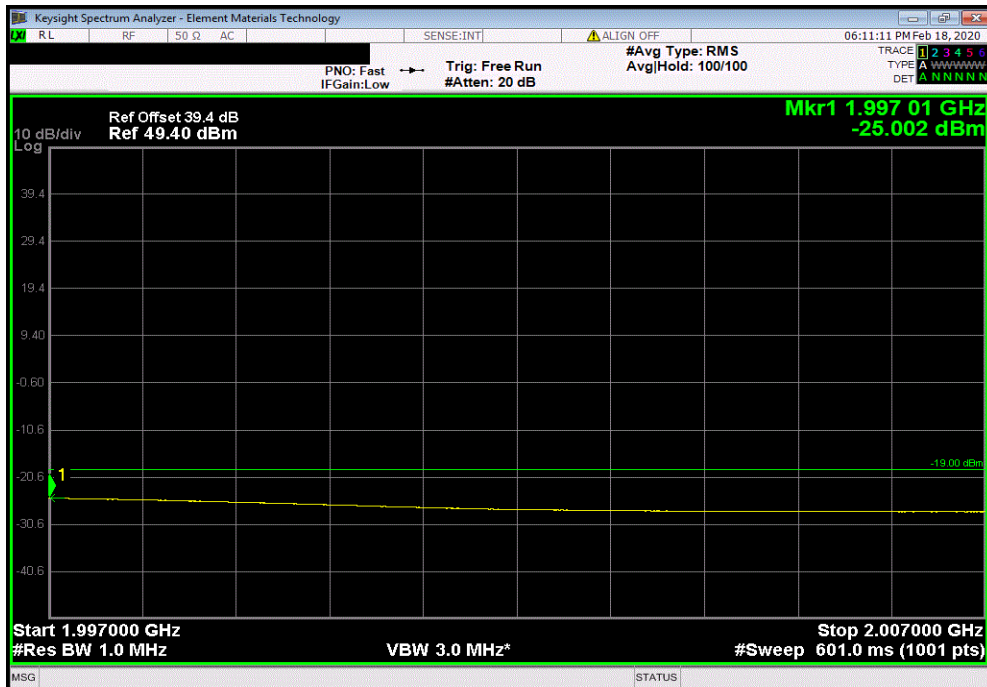


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 1985 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.31	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 1985 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-25.002	-19	Pass



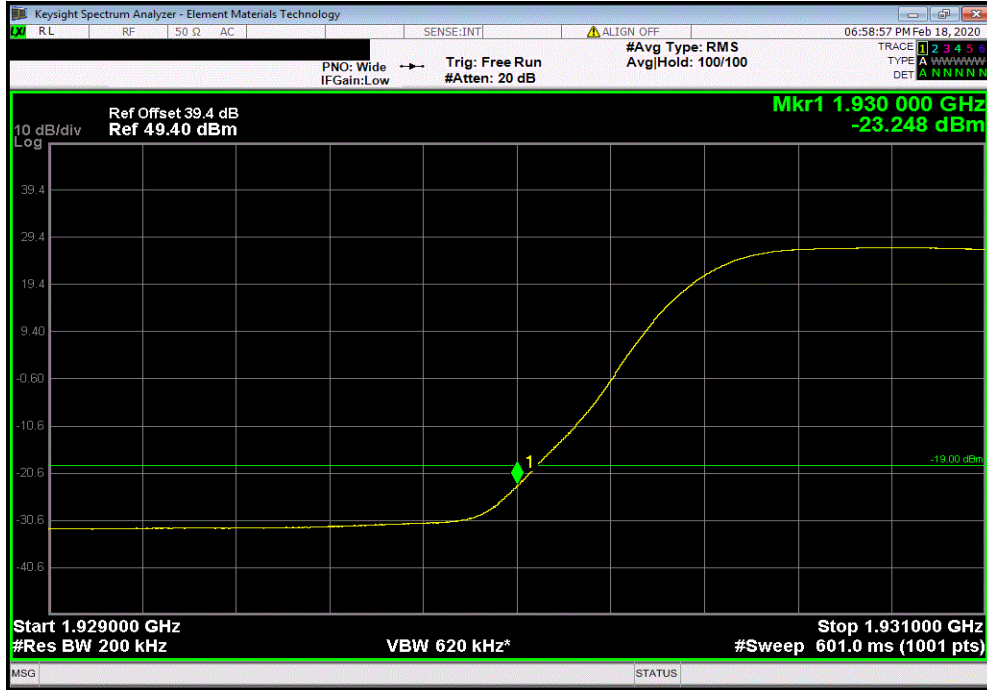


# BAND EDGE COMPLIANCE BAND 25

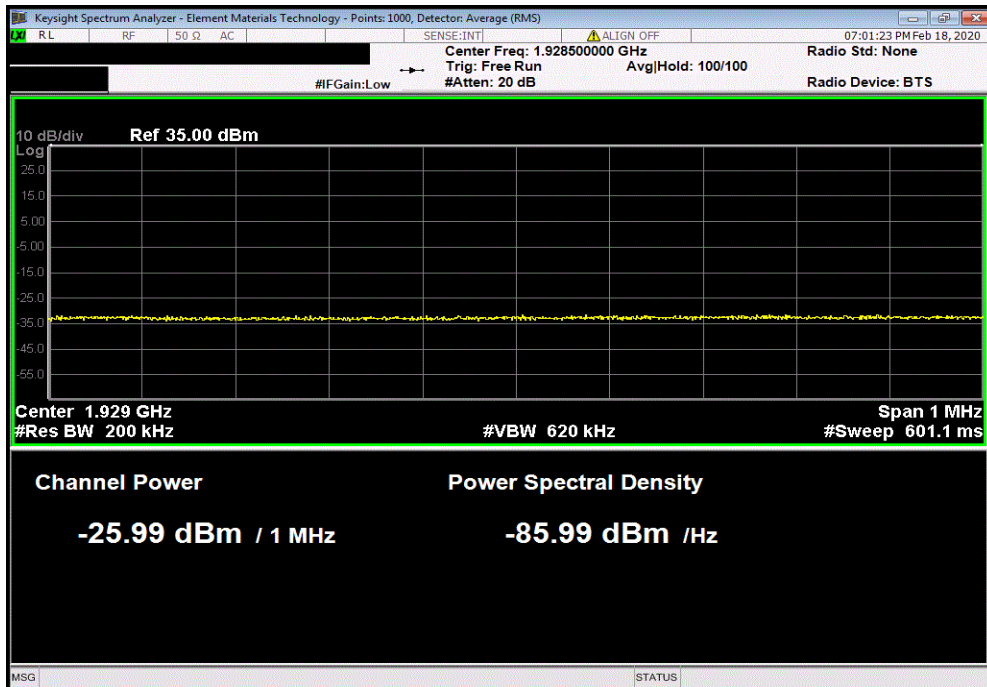


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 1940 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.248	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 1940 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.99	-19	Pass

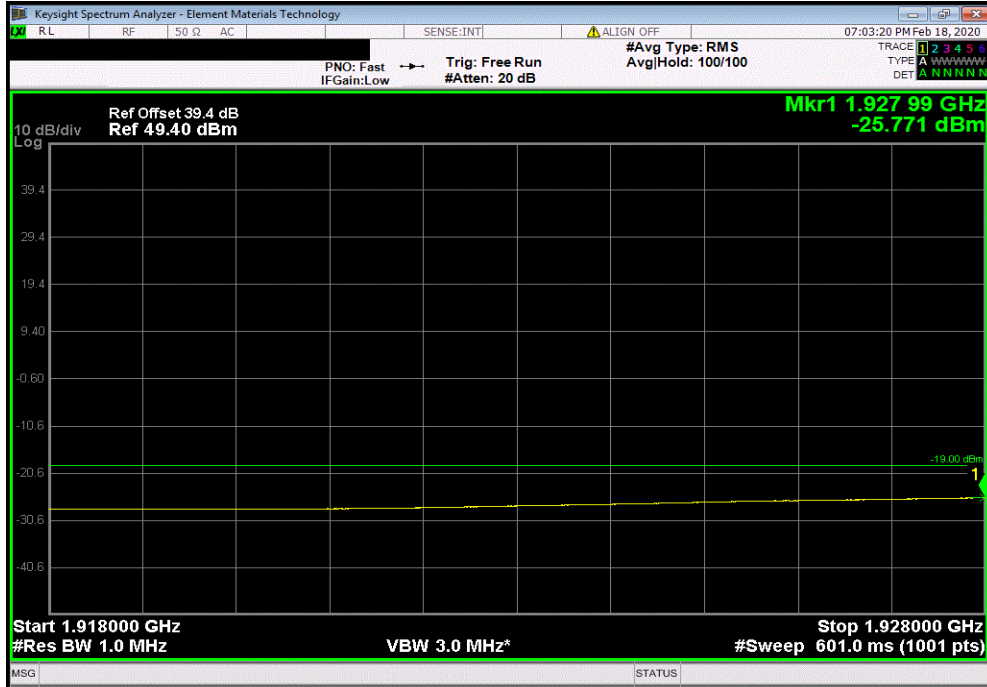


# BAND EDGE COMPLIANCE BAND 25

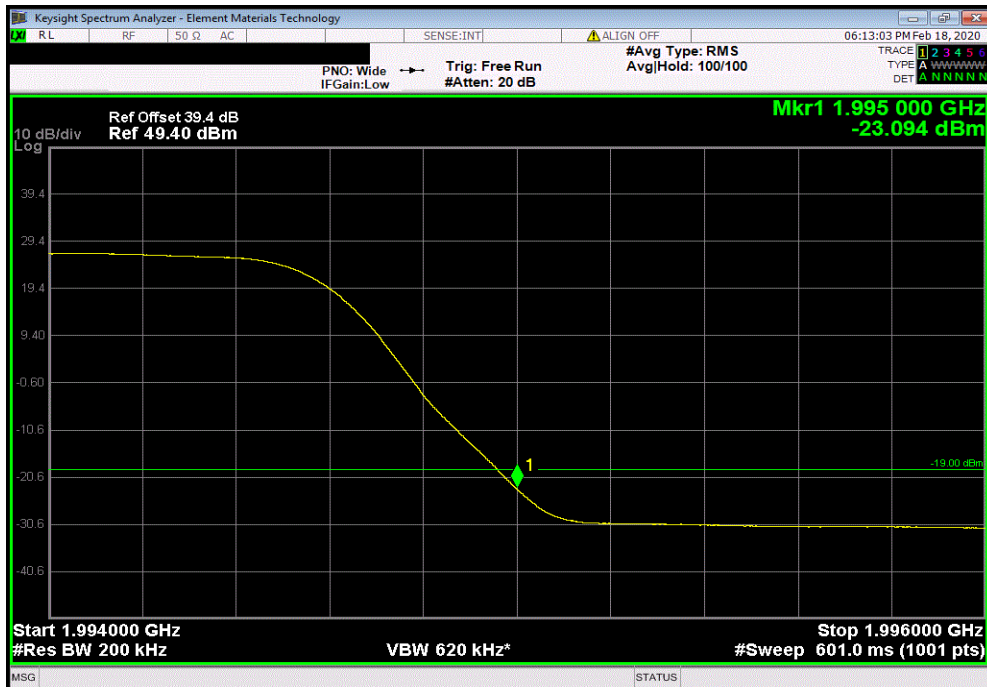


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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 1940 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-25.771	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 1985 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.094	-19	Pass

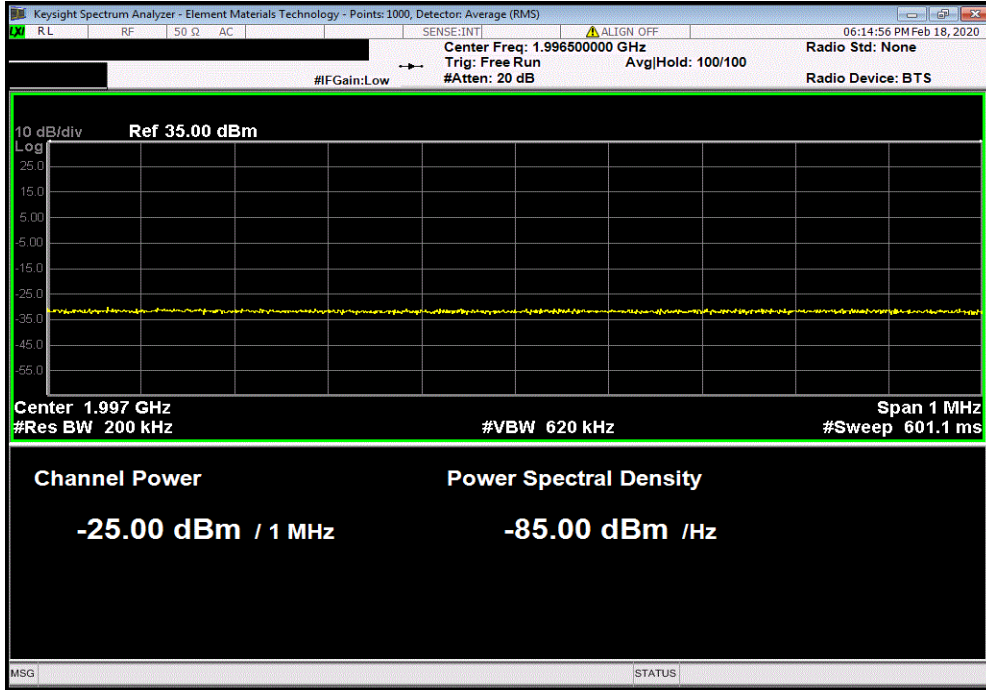


# BAND EDGE COMPLIANCE BAND 25



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5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 1985 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25	-19	Pass



5G Band 25, 1930 MHz - 1995 MHz, (Single Carrier) Port 4, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 1985 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.97	-19	Pass

