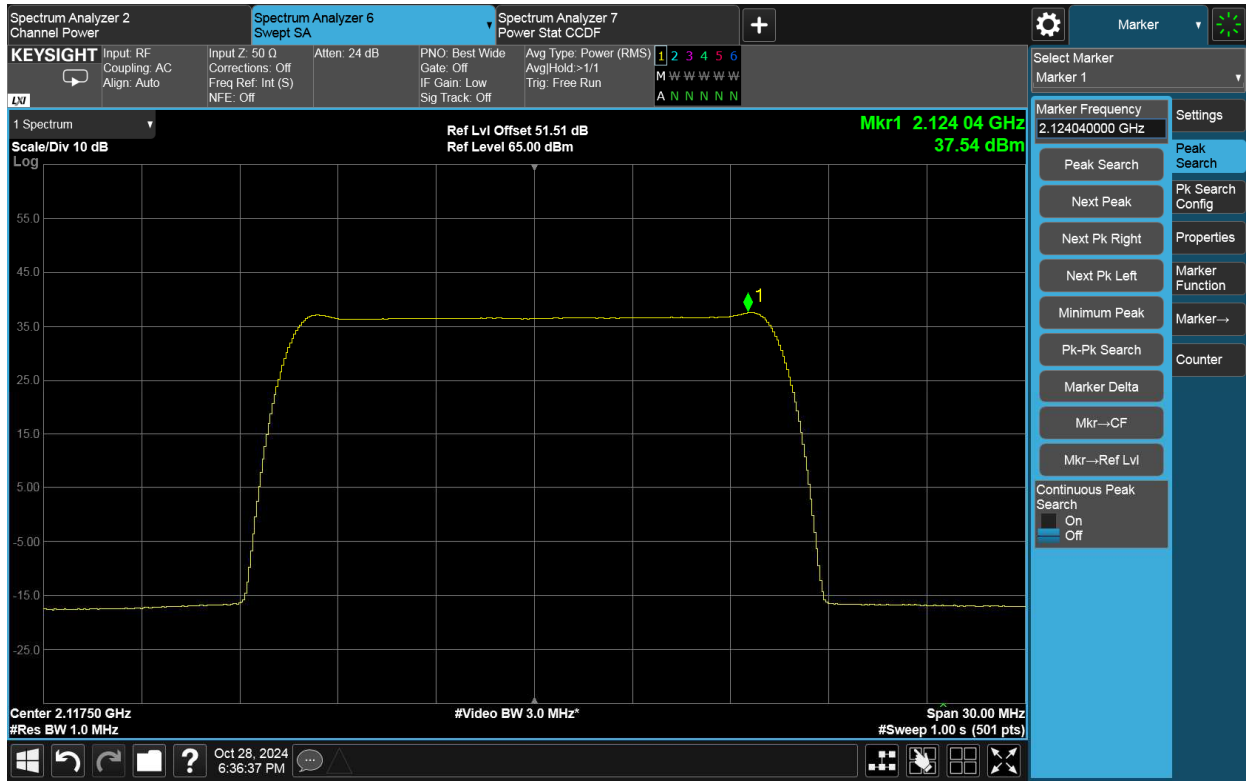
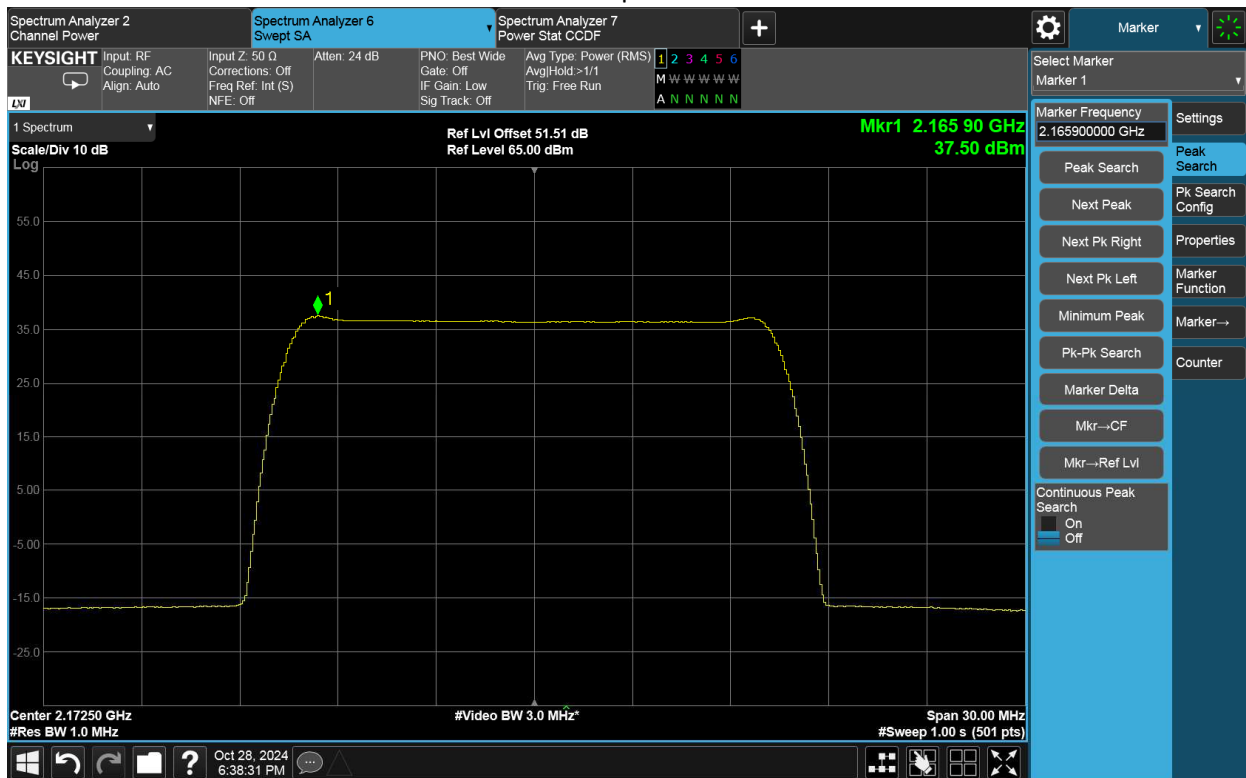


Channel position B



Channel position T

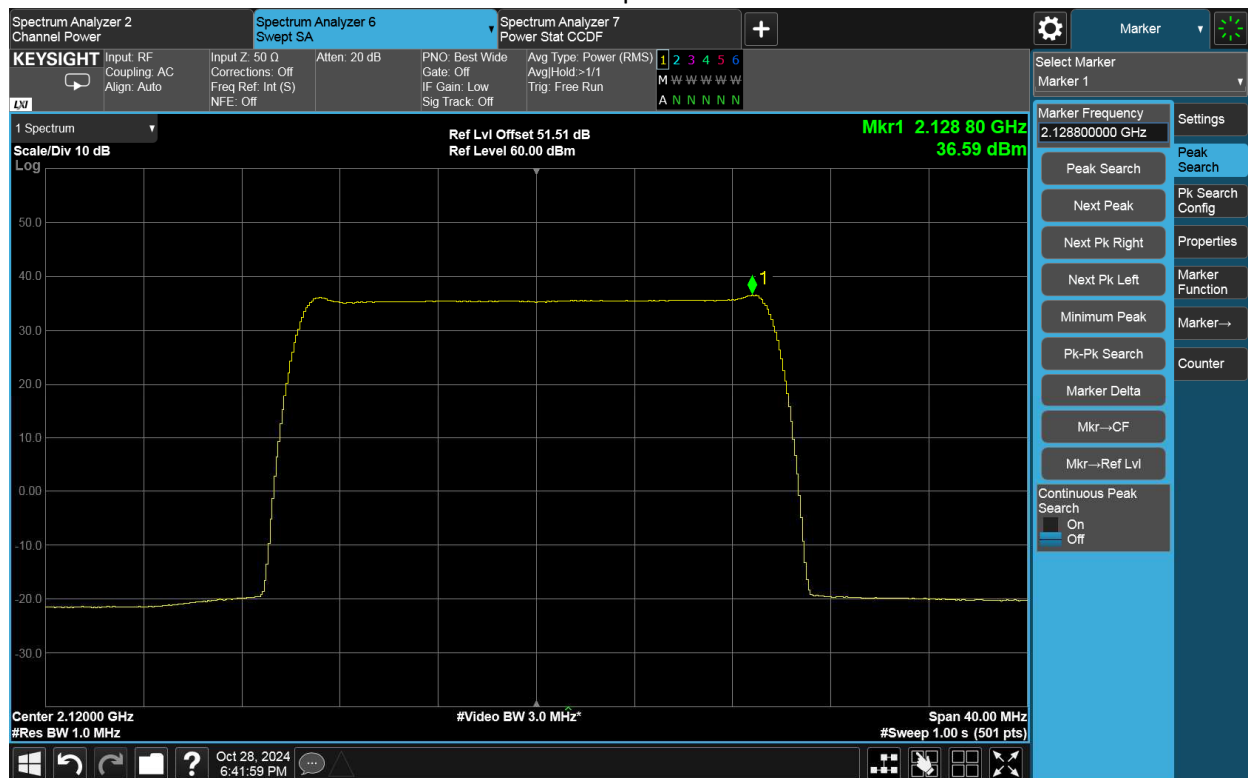


TEST REPORT

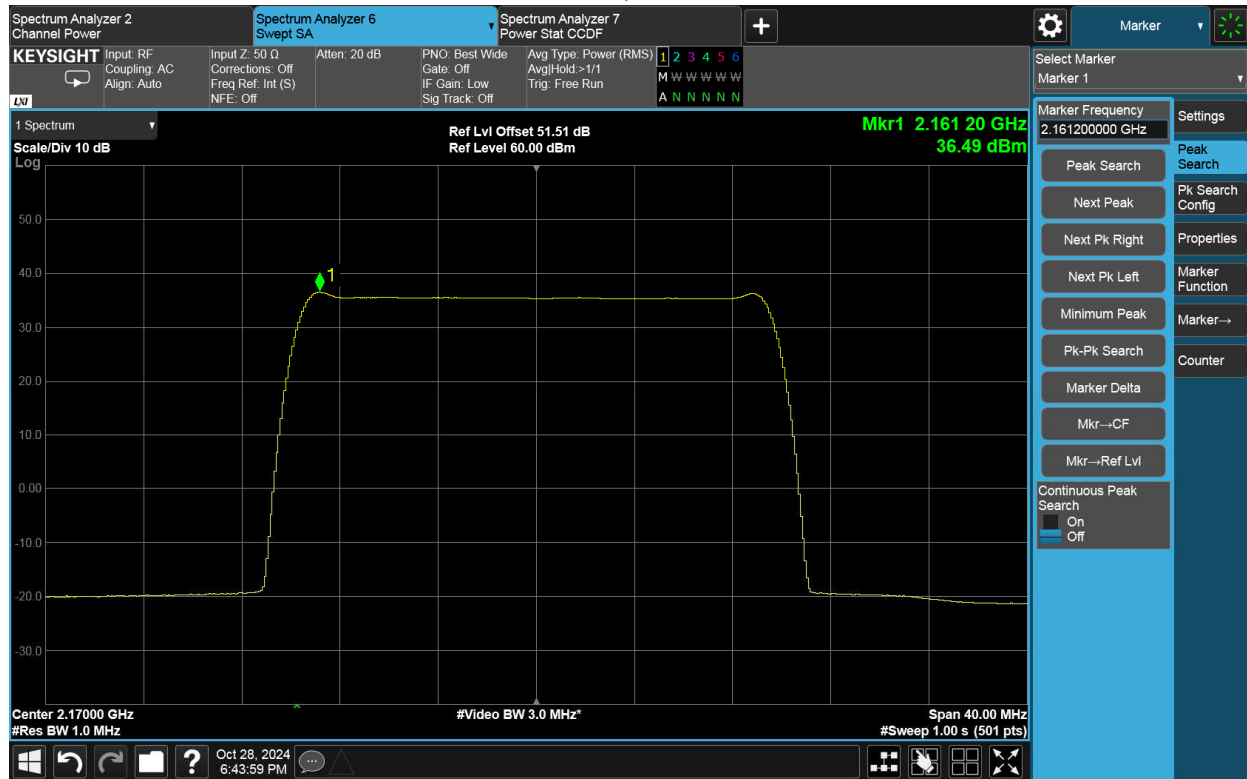
2GB+L

Antenna Port	LTE Modulation	L Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	64QAM	20	48.01	36.59	-	-	-	-	47.97	36.49	-
B	64QAM	20	47.77	36.42	-	-	-	-	47.66	36.14	-
C	64QAM	20	47.87	36.48	-	-	-	-	47.80	36.35	-
D	64QAM	20	47.79	36.49	-	-	-	-	47.89	36.37	-
Total conducted power			53.88	42.52	-	-	-	-	53.85	42.36	-
EIRP limit			-	62.15	13.00	-	-	-	-	62.15	13.00
Max antenna gain			-	19.63	-	-	-	-	-	19.79	-

Channel position B



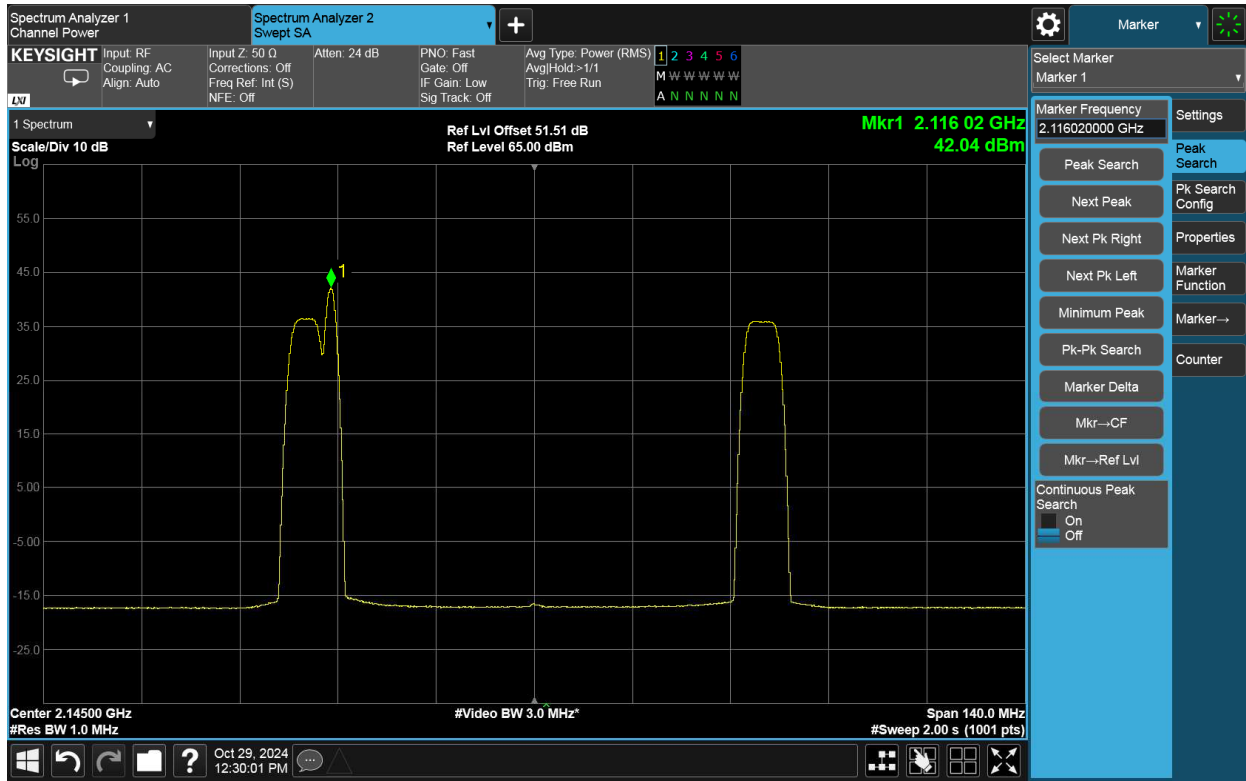
Channel position T



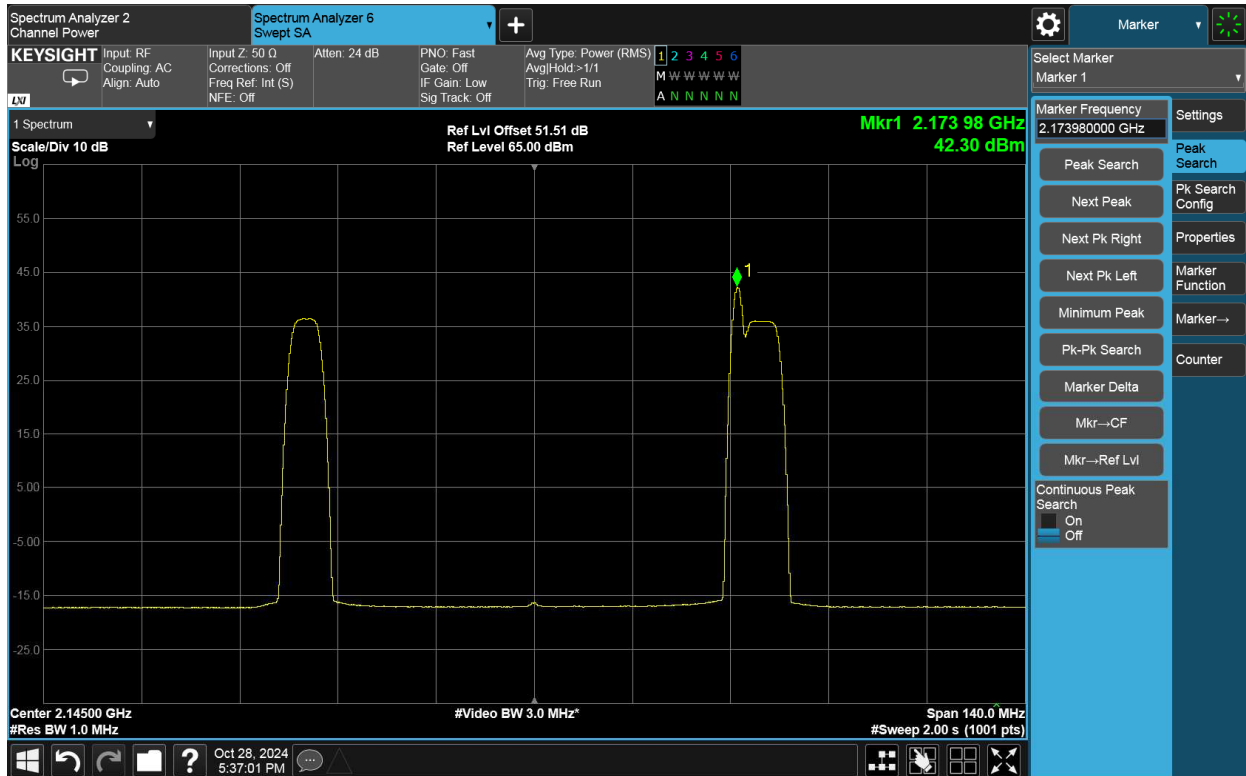
W+SA+L

Antenna Port	W/LTE Modulation	L Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	64QAM	5	46.76	41.85	-	-	-	-	46.82	42.13	-
B	64QAM	5	46.61	41.57	-	-	-	-	46.65	42.30	-
C	64QAM	5	46.70	42.04	-	-	-	-	46.73	41.94	-
D	64QAM	5	46.61	41.99	-	-	-	-	46.66	42.07	-
Total conducted power			52.69	47.89	-	-	-	-	52.74	48.13	-
EIRP limit			-	62.15	13.00	-	-	-	-	62.15	13.00
Max antenna gain			-	14.26	-	-	-	-	-	14.02	-

Channel position B



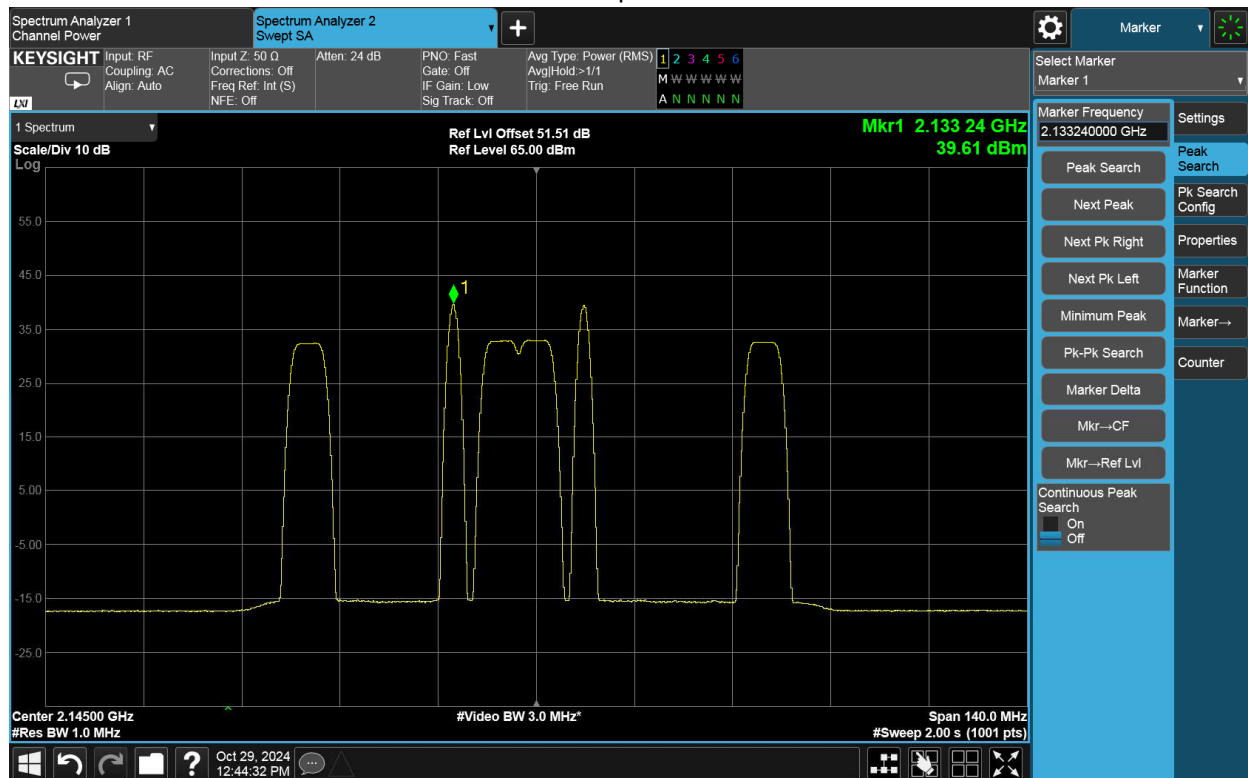
Channel position T



2NR+2L+2SA

Antenna Port	NR/LTE Modulation	NR/L Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK/64QAM	5	-	-	-	46.78	39.37	-	-	-	-
B	QPSK/64QAM	5	-	-	-	46.71	39.28	-	-	-	-
C	QPSK/64QAM	5	-	-	-	46.86	39.44	-	-	-	-
D	QPSK/64QAM	5	-	-	-	46.84	39.61	-	-	-	-
Total conducted power			-	-	-	52.82	45.45	-	-	-	-
EIRP limit			-	-	-	-	62.15	-	-	-	-
Max antenna gain			-	-	-	-	16.70	-	-	-	-

Channel position M

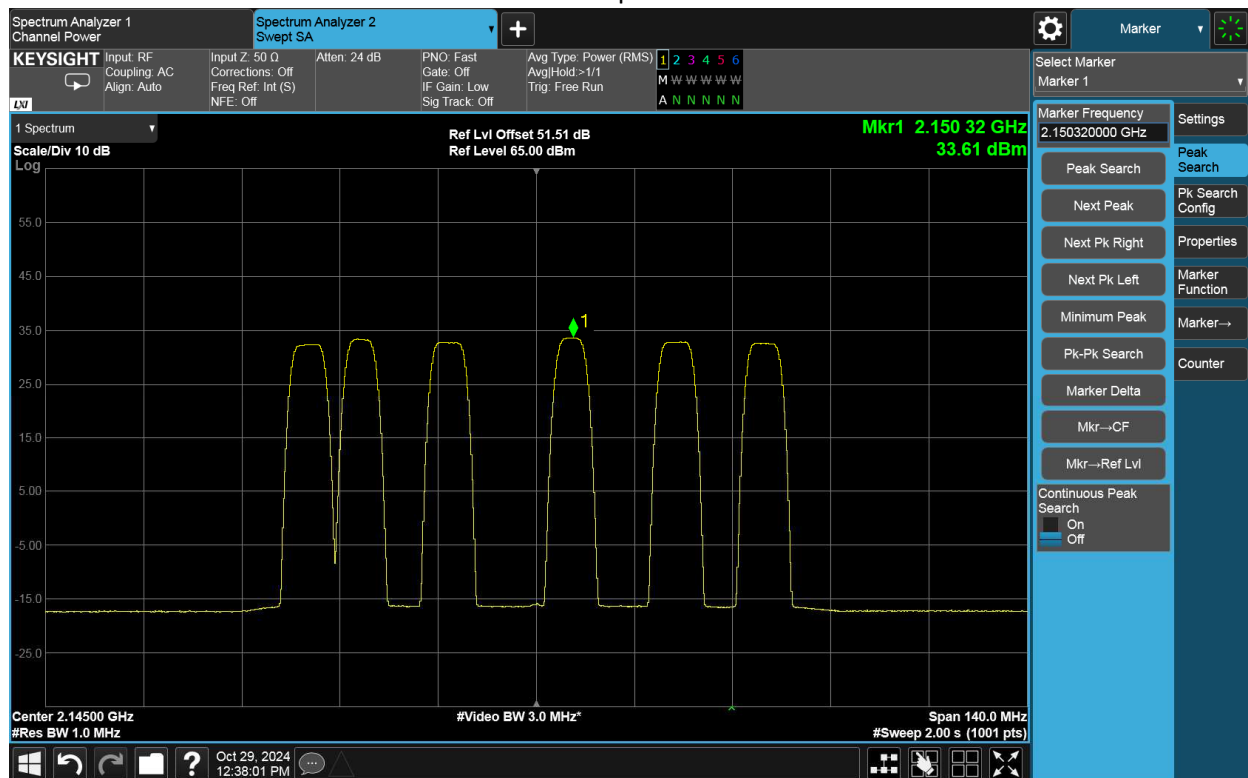


TEST REPORT

2NR+2W+2L

Antenna Port	NR/LTE Modulation	NR/L Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK/64QAM	5	-	-	-	46.55	33.55	-	-	-	-
B	QPSK/64QAM	5	-	-	-	46.42	33.33	-	-	-	-
C	QPSK/64QAM	5	-	-	-	46.68	33.61	-	-	-	-
D	QPSK/64QAM	5	-	-	-	46.62	33.55	-	-	-	-
Total conducted power			-	-	-	52.59	39.53	-	-	-	-
EIRP limit			-	-	-	-	62.15	-	-	-	-
Max antenna gain			-	-	-	-	22.62	-	-	-	-

Channel position M



TEST REPORT**4 Occupied Bandwidth****Test result: Pass****4.1 Measurement Procedure**

The EUT was set to transmit at maximum power and testing was carried out on bottom, middle and top channels. Using the Occupied Bandwidth measurement function in the spectrum analyzer, the 26dB bandwidth was measured in accordance with FCC KDB 971168 D01 Clause 4.2.

The measurement method is from KDB 971168 4.2:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) Set the detection mode to peak, and the trace mode to max hold.
- e) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

4.2 Measurement result

LTE-1C

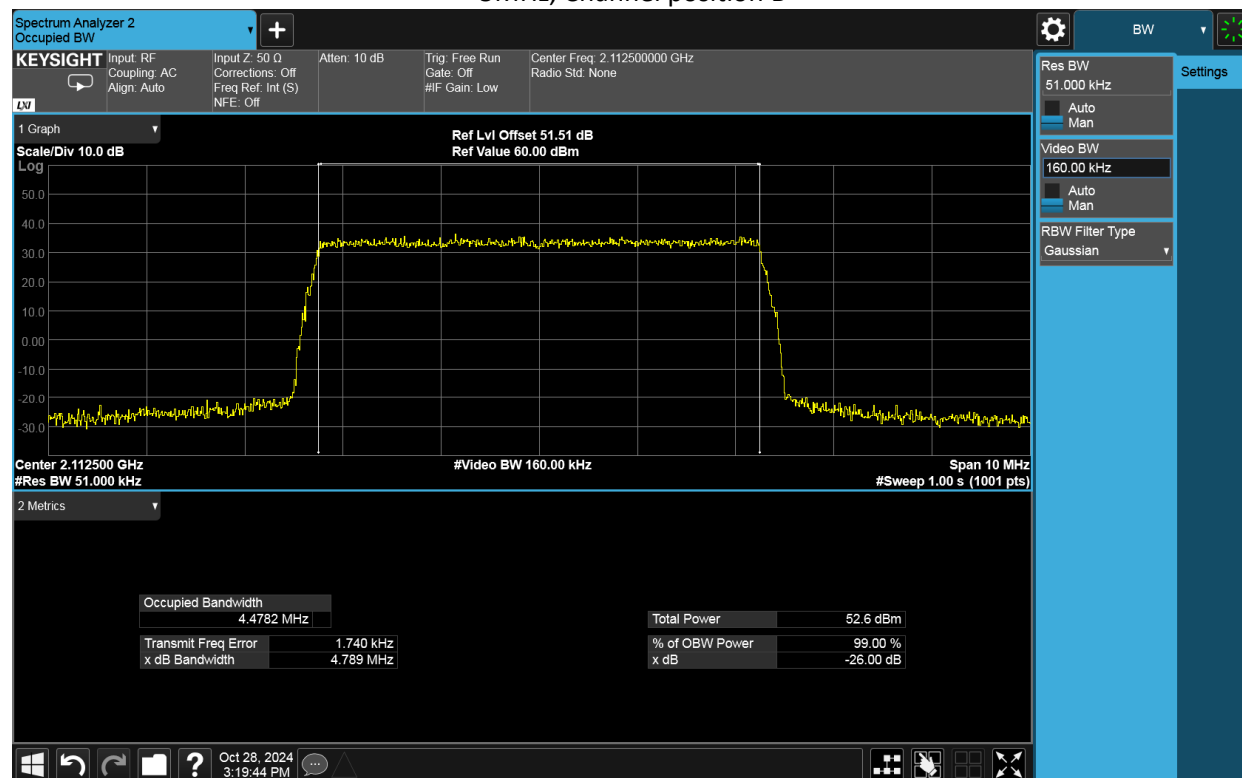
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	64QAM	5MHz	4.478	4.472	4.470
C	64QAM	10MHz	8.938	8.942	8.939
C	64QAM	15MHz	13.387	13.391	13.392
C	64QAM	20MHz	17.844	17.831	17.842

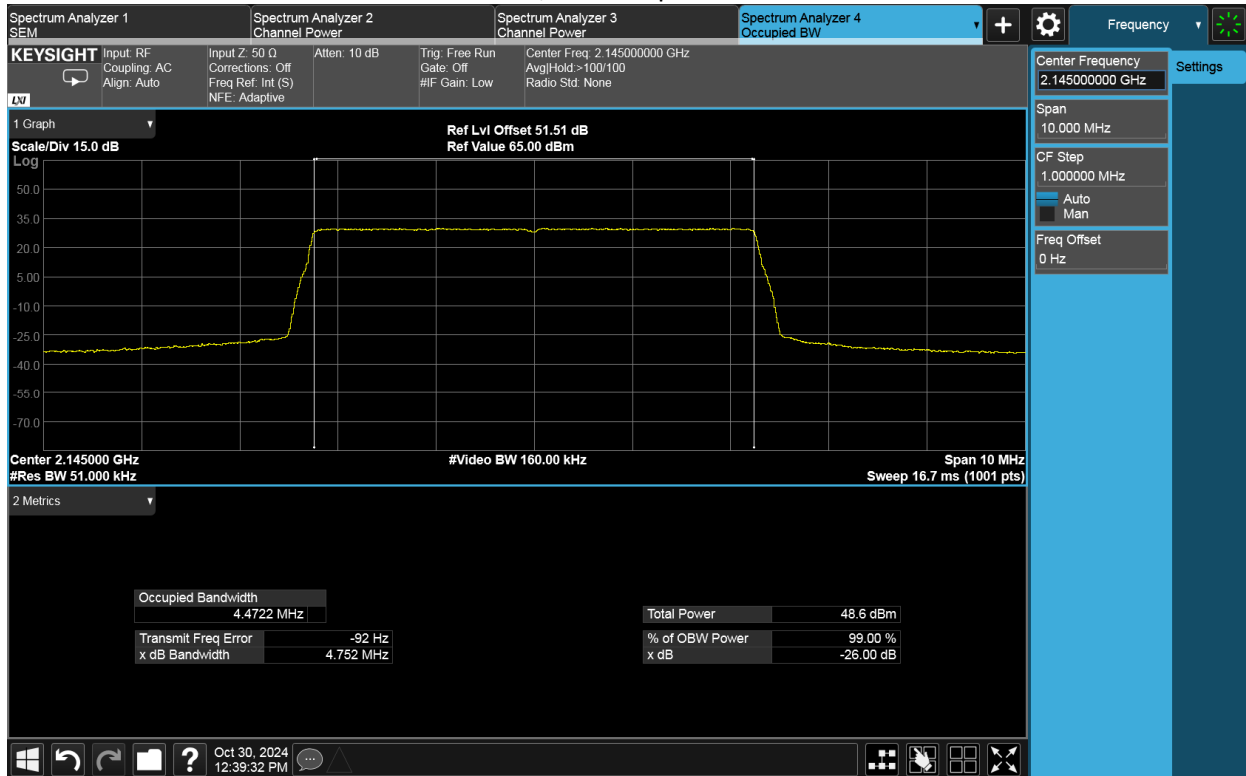
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	64QAM	5MHz	4.79	4.75	4.74
C	64QAM	10MHz	9.40	9.38	9.44
C	64QAM	15MHz	13.98	13.99	13.94
C	64QAM	20MHz	18.58	18.65	18.56

5MHz, Channel position B



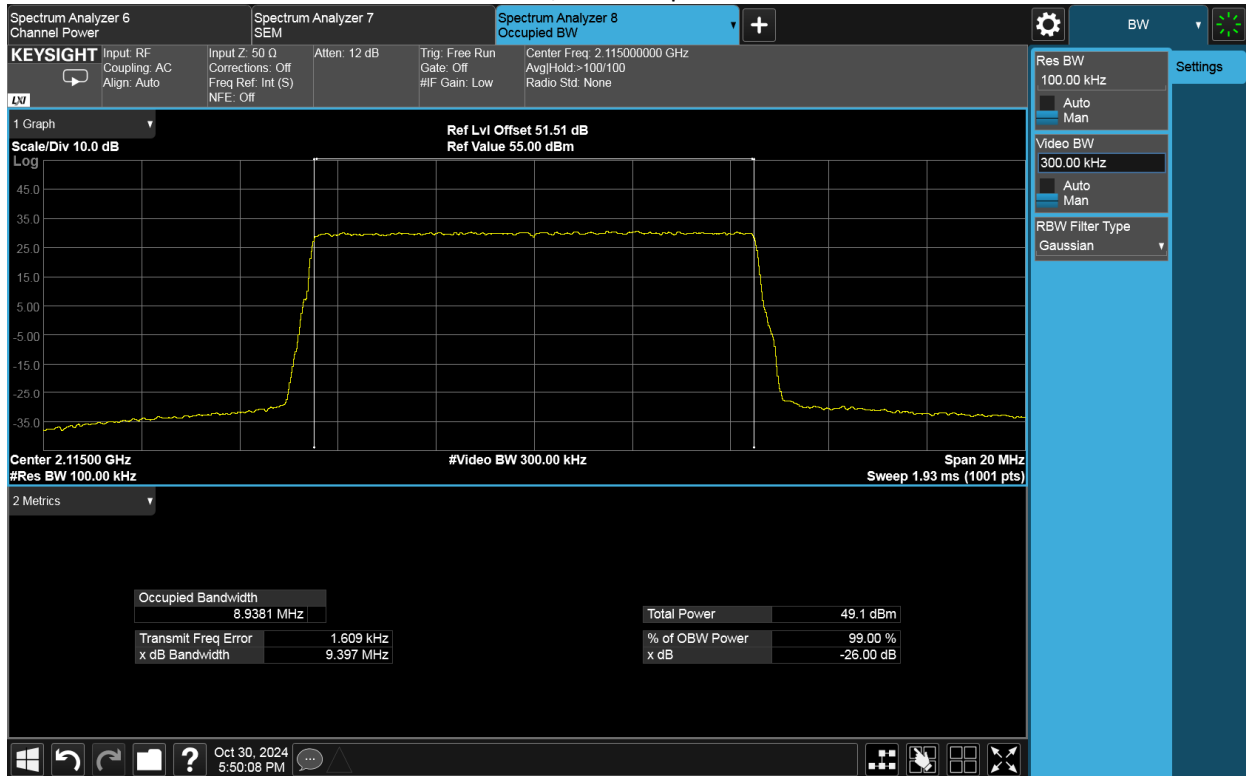
5MHz, Channel position M



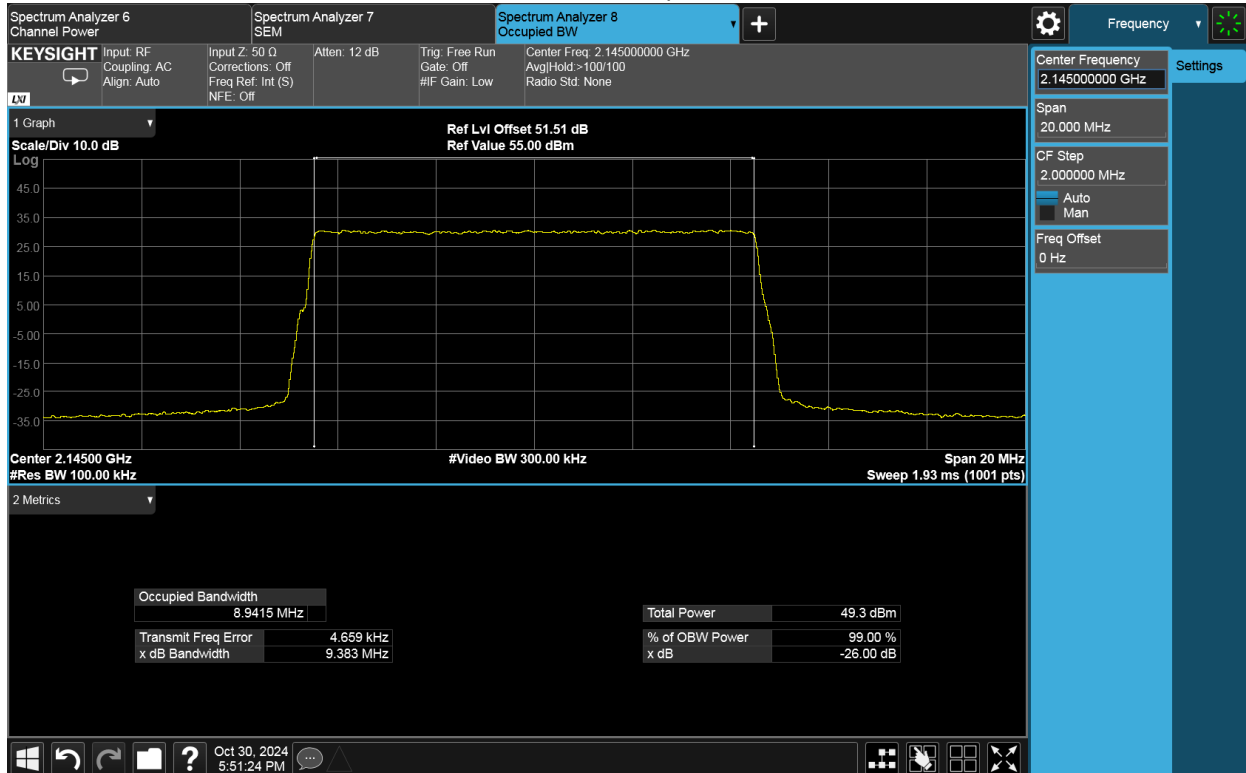
5MHz, Channel position T



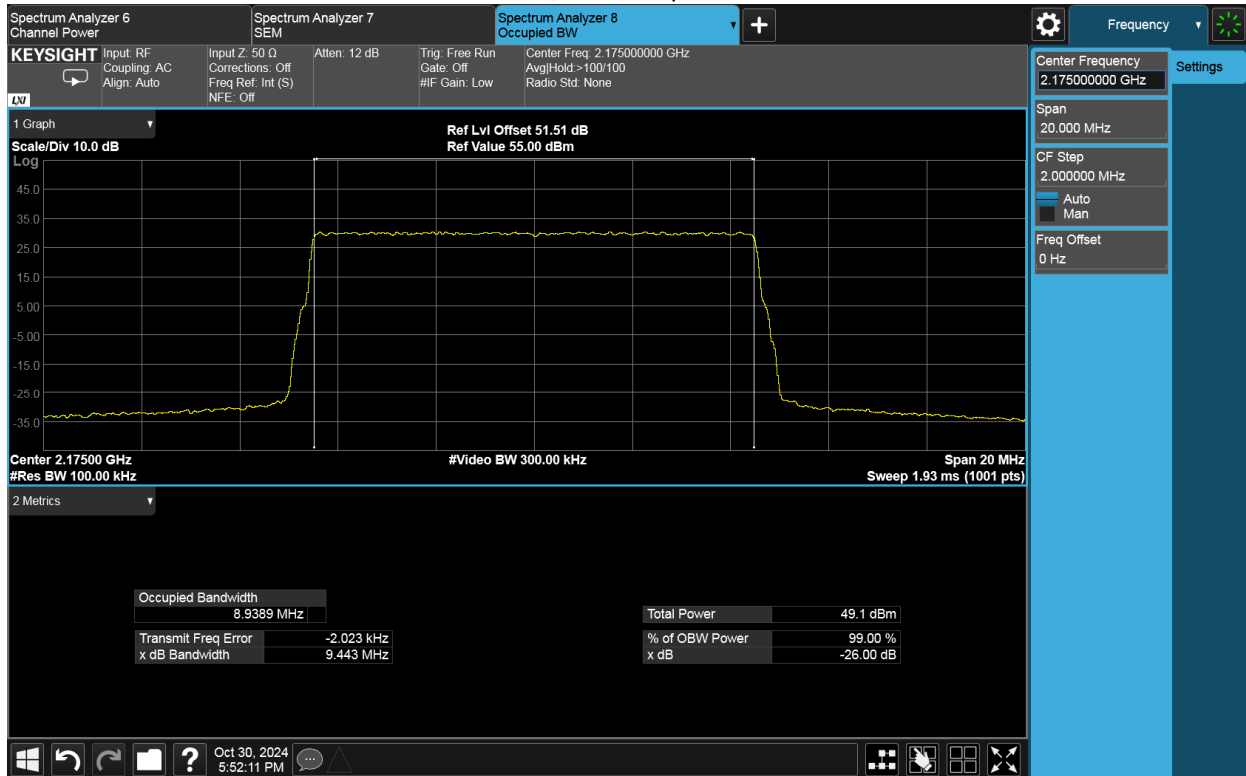
10MHz, Channel position B



10MHz, Channel position M



10MHz, Channel position T



15MHz, Channel position B



15MHz, Channel position M



15MHz, Channel position T



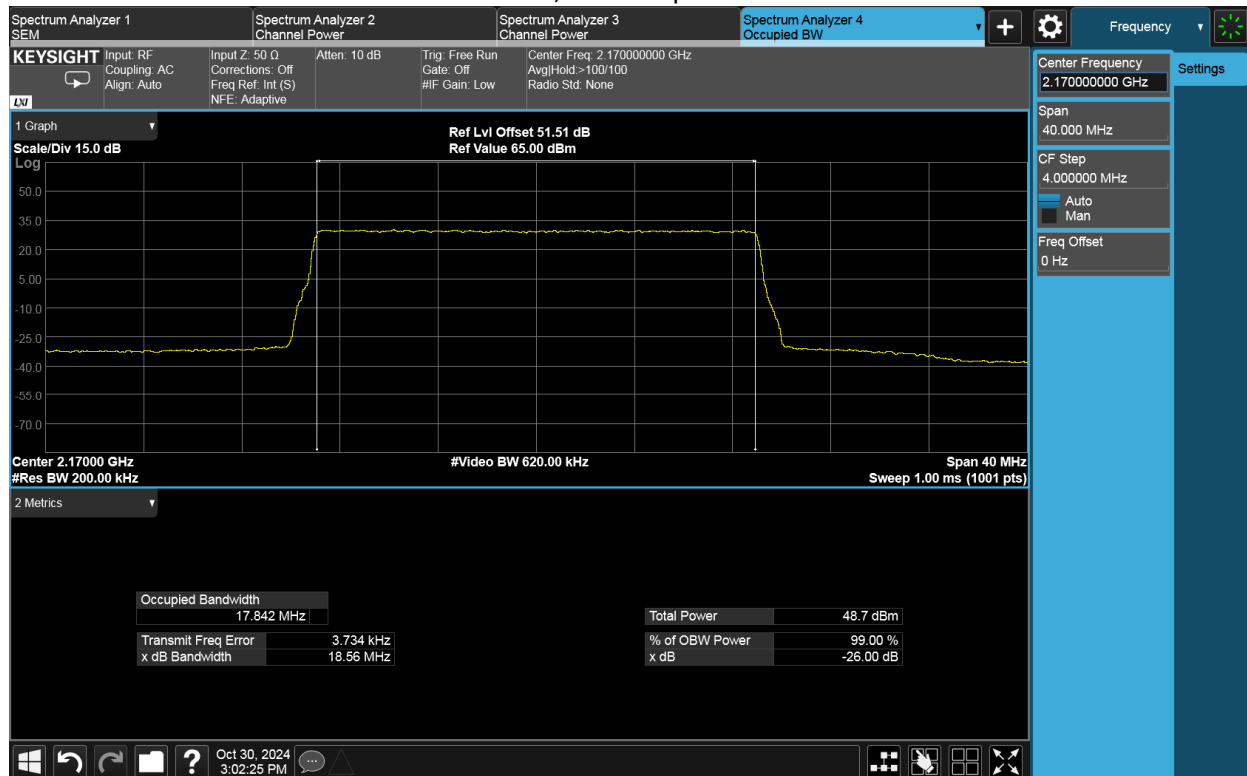
20MHz, Channel position B



20MHz, Channel position M



20MHz, Channel position T



LTE-CA

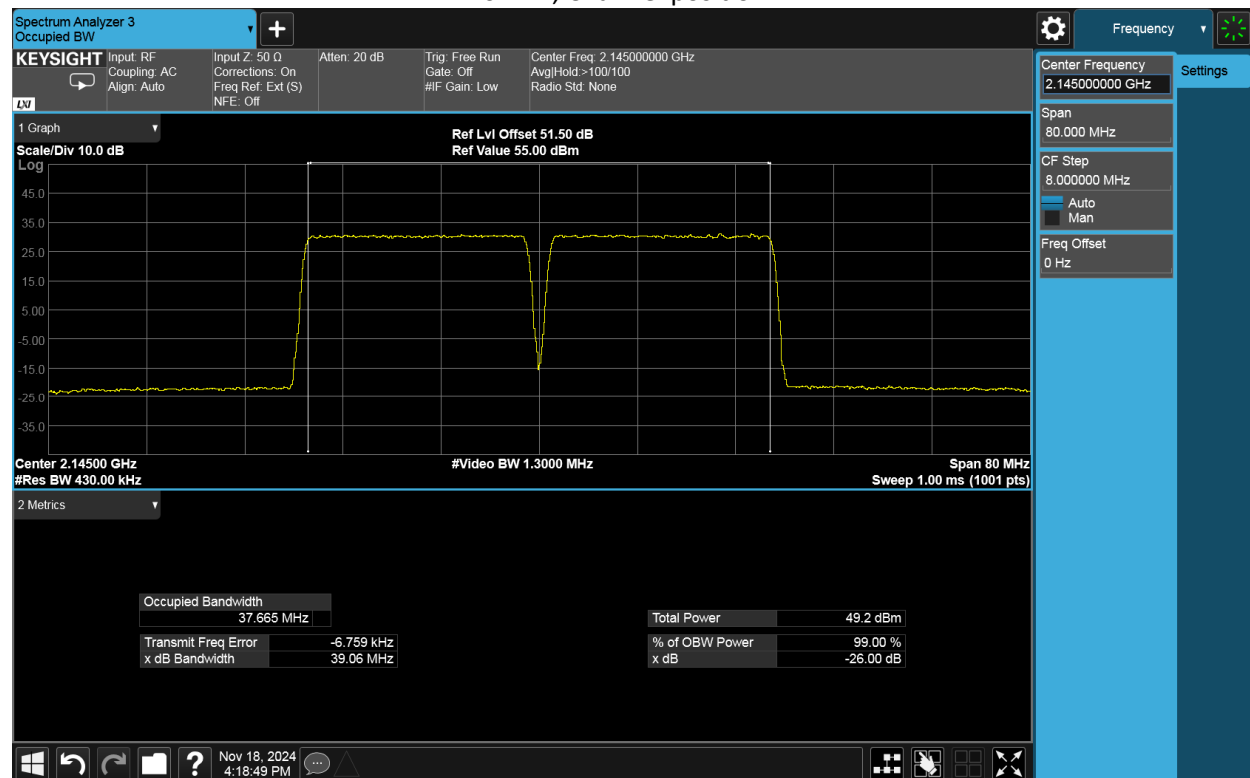
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	64QAM	40MHz	-	37.665	-

-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	64QAM	40MHz	-	39.06	-

40MHz, Channel position M



NR-1C

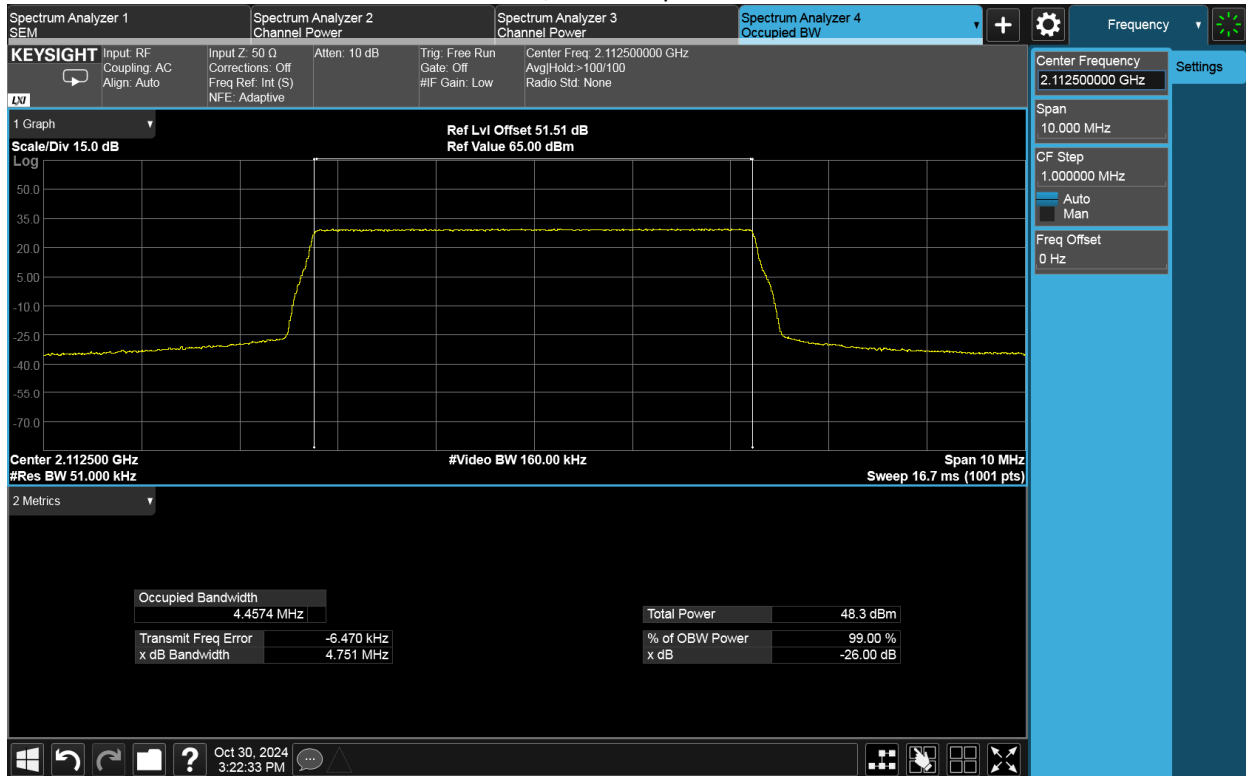
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	QPSK	5MHz	4.457	4.589	4.458
C	QPSK	10MHz	9.274	9.278	9.276
C	QPSK	15MHz	14.095	14.072	14.093
C	QPSK	20MHz	18.899	18.901	18.909

-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	QPSK	5MHz	4.75	4.77	4.77
C	QPSK	10MHz	9.67	9.66	9.66
C	QPSK	15MHz	14.63	14.63	14.61
C	QPSK	20MHz	19.59	19.62	19.60

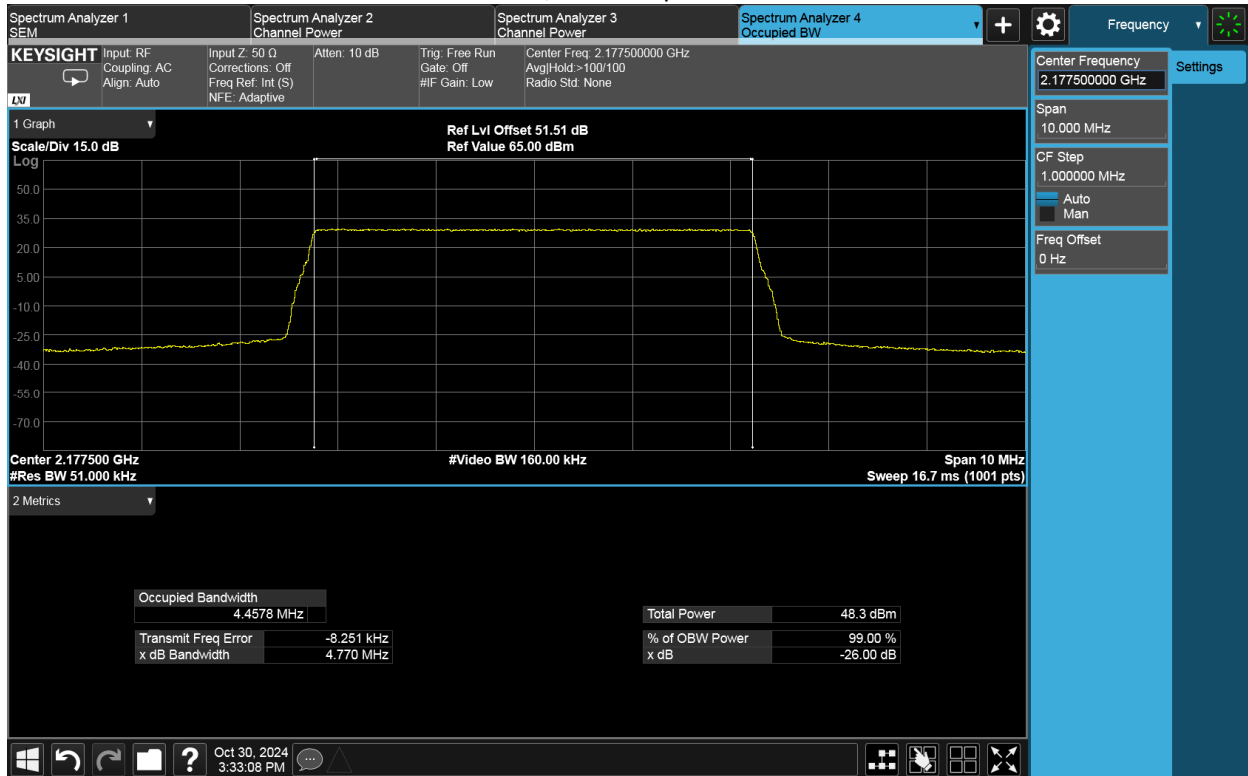
5MHz, Channel position B



5MHz, Channel position M



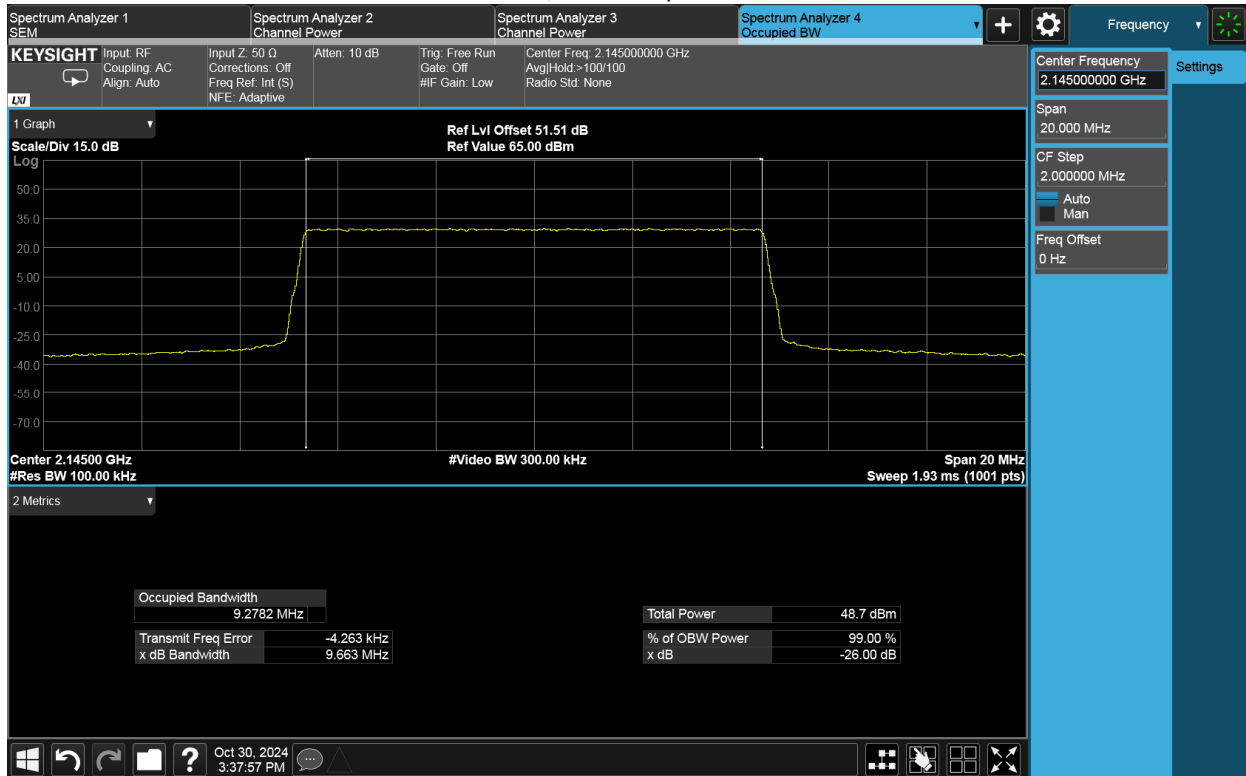
5MHz, Channel position T



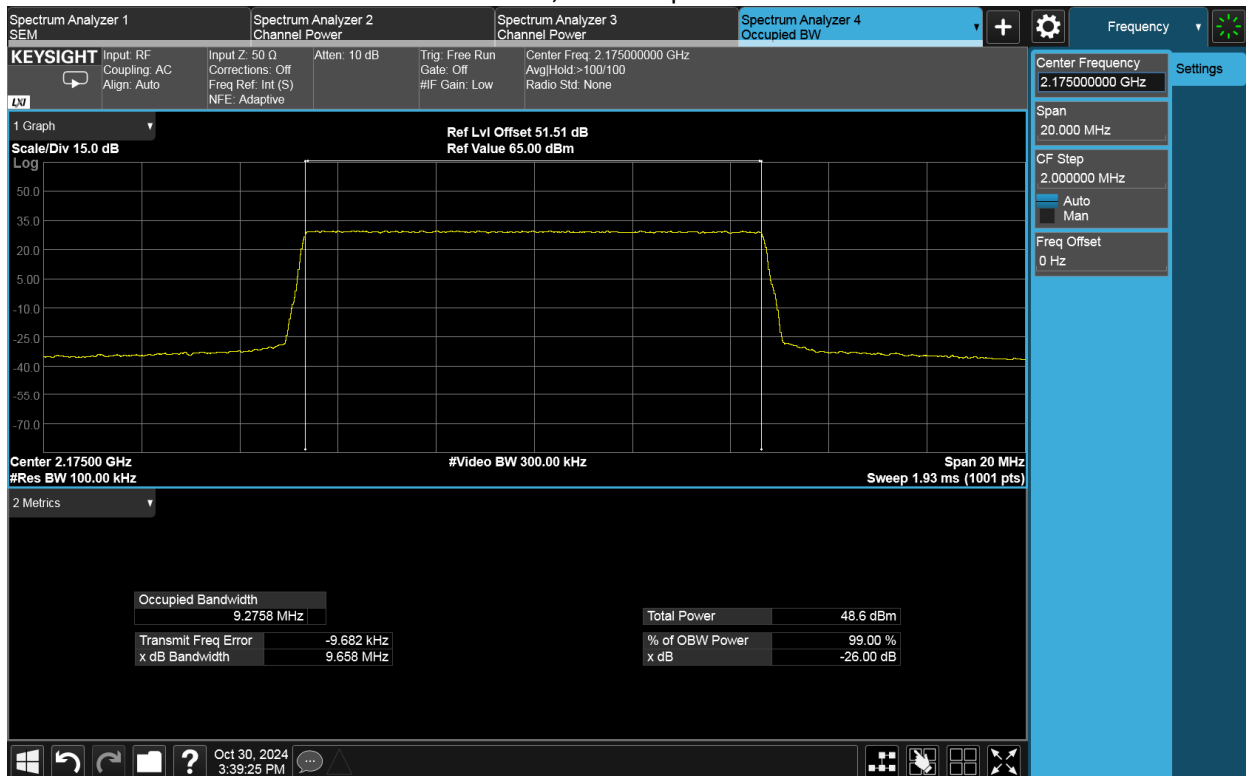
10MHz, Channel position B



10MHz, Channel position M



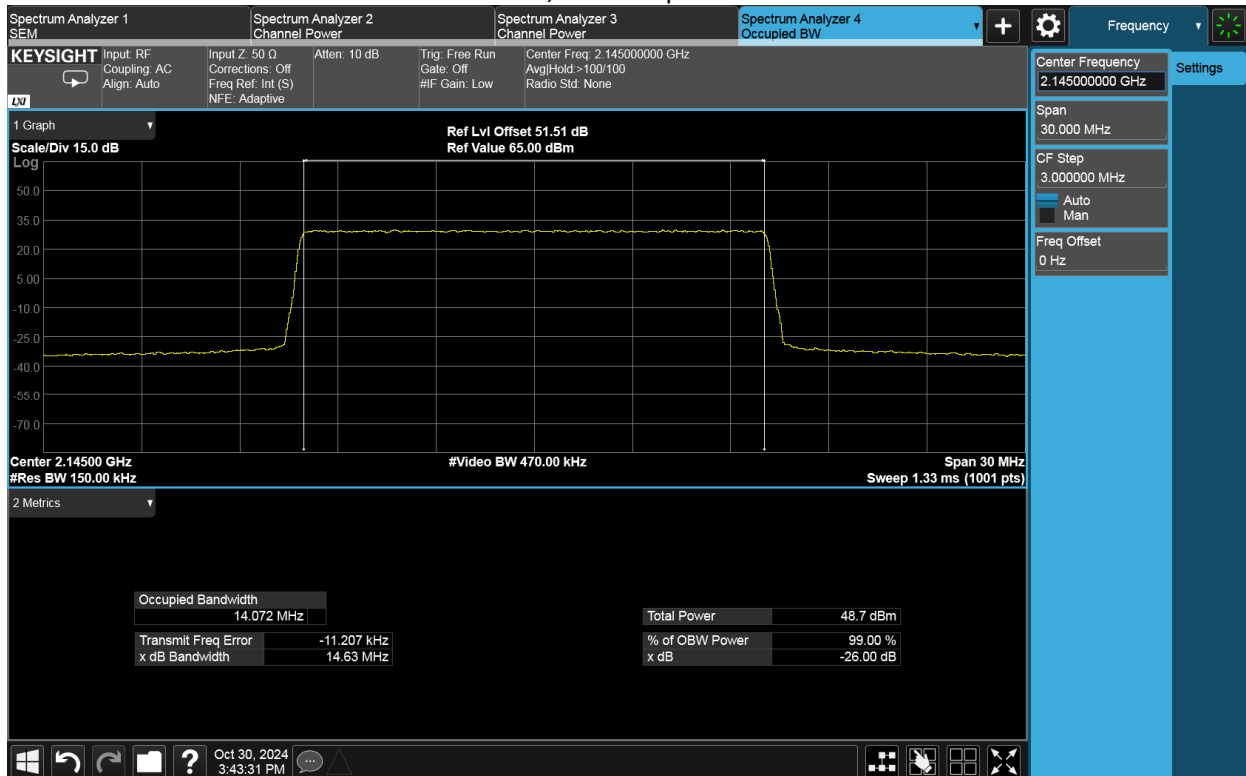
10MHz, Channel position T



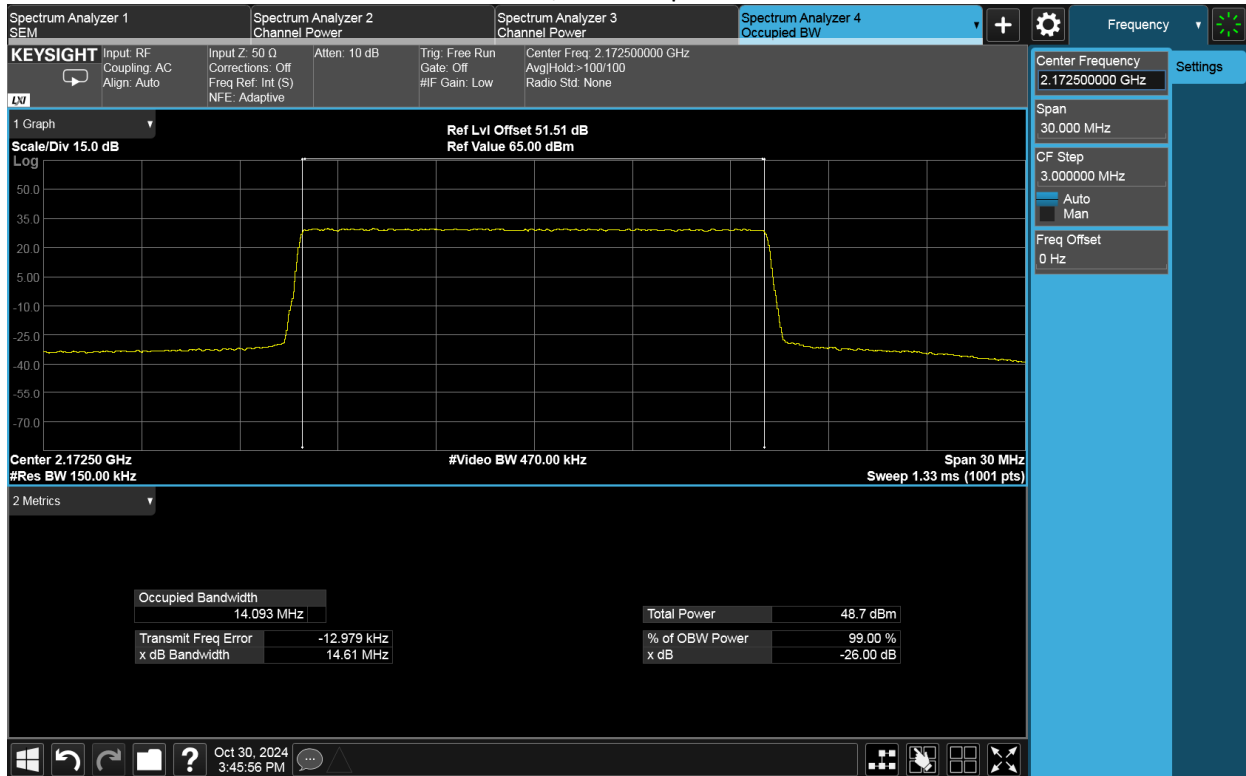
15MHz, Channel position B



15MHz, Channel position M



15MHz, Channel position T



20MHz, Channel position B



20MHz, Channel position M



20MHz, Channel position T



TEST REPORT

NR-CA

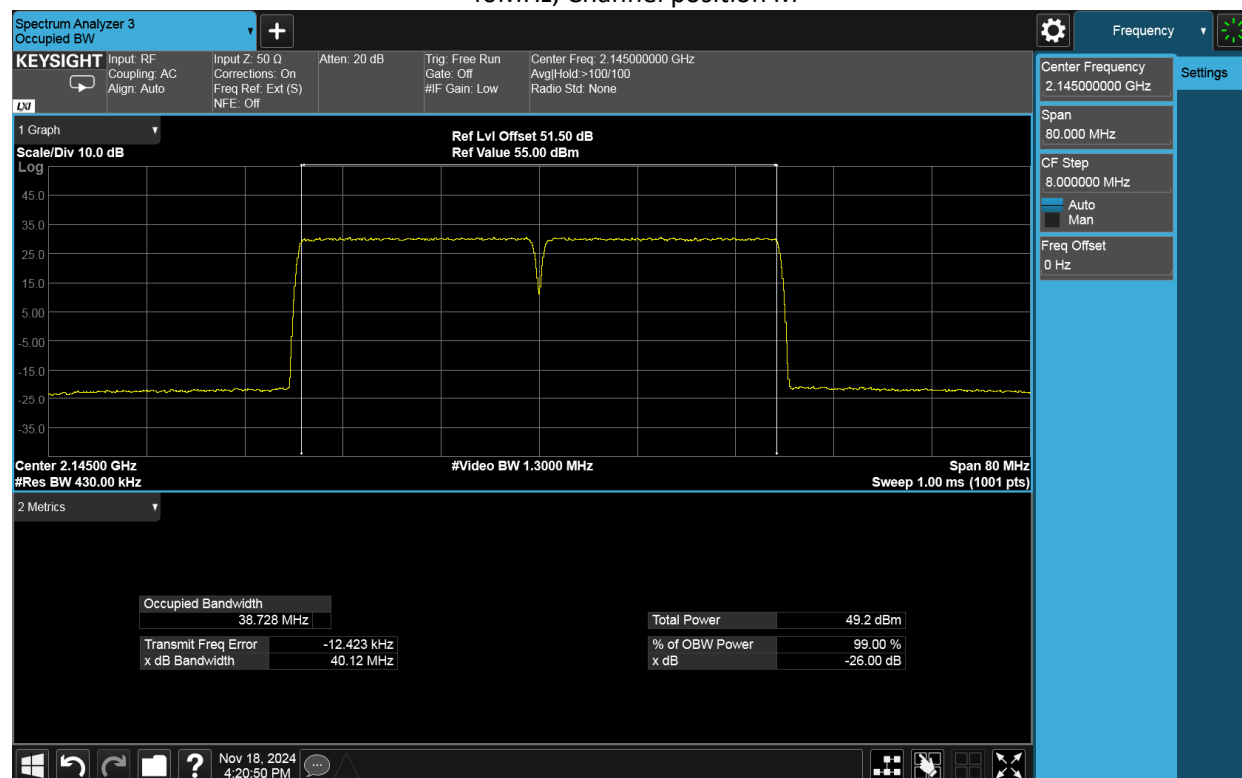
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	64QAM	40MHz	-	38.728	-

-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	64QAM	40MHz	-	40.12	-

40MHz, Channel position M



TEST REPORT

W-1C

99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	64QAM	5MHz	4.166	4.167	4.174

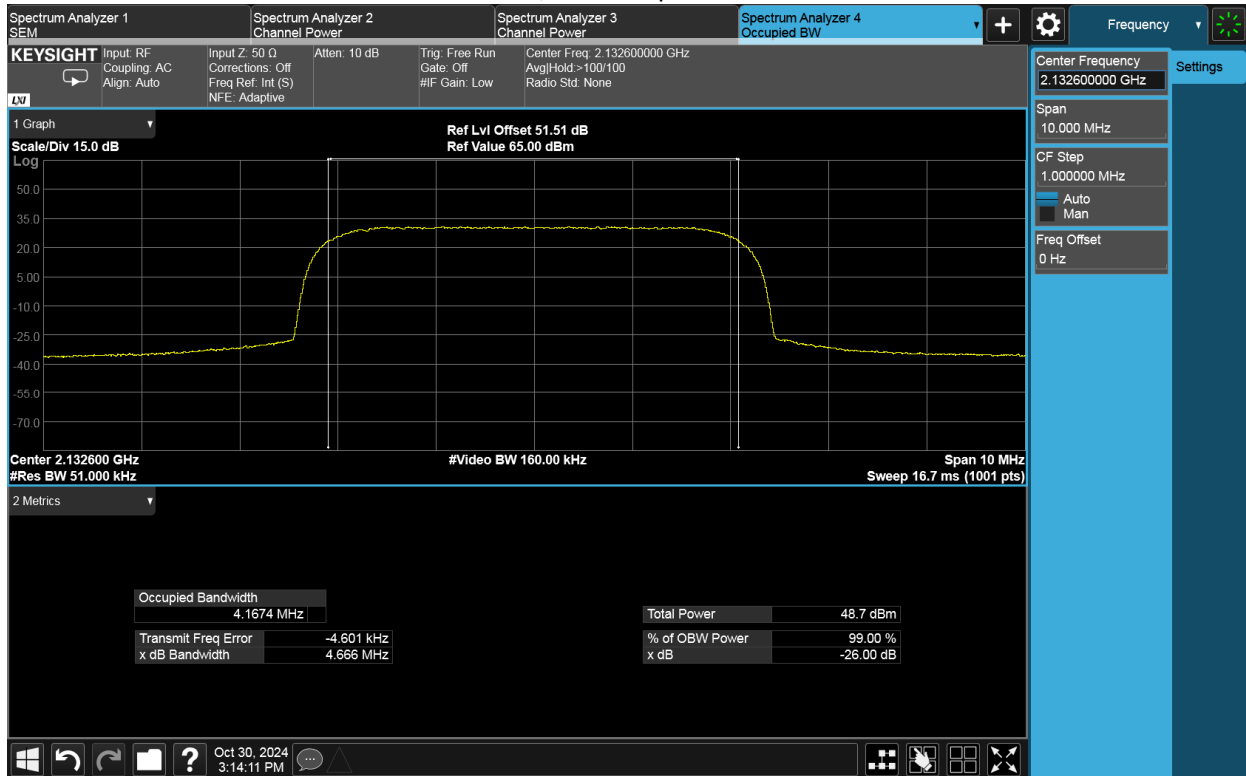
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
C	64QAM	5MHz	4.67	4.67	4.66

5MHz, Channel position B



5MHz, Channel position M



5MHz, Channel position T



TEST REPORT

SA

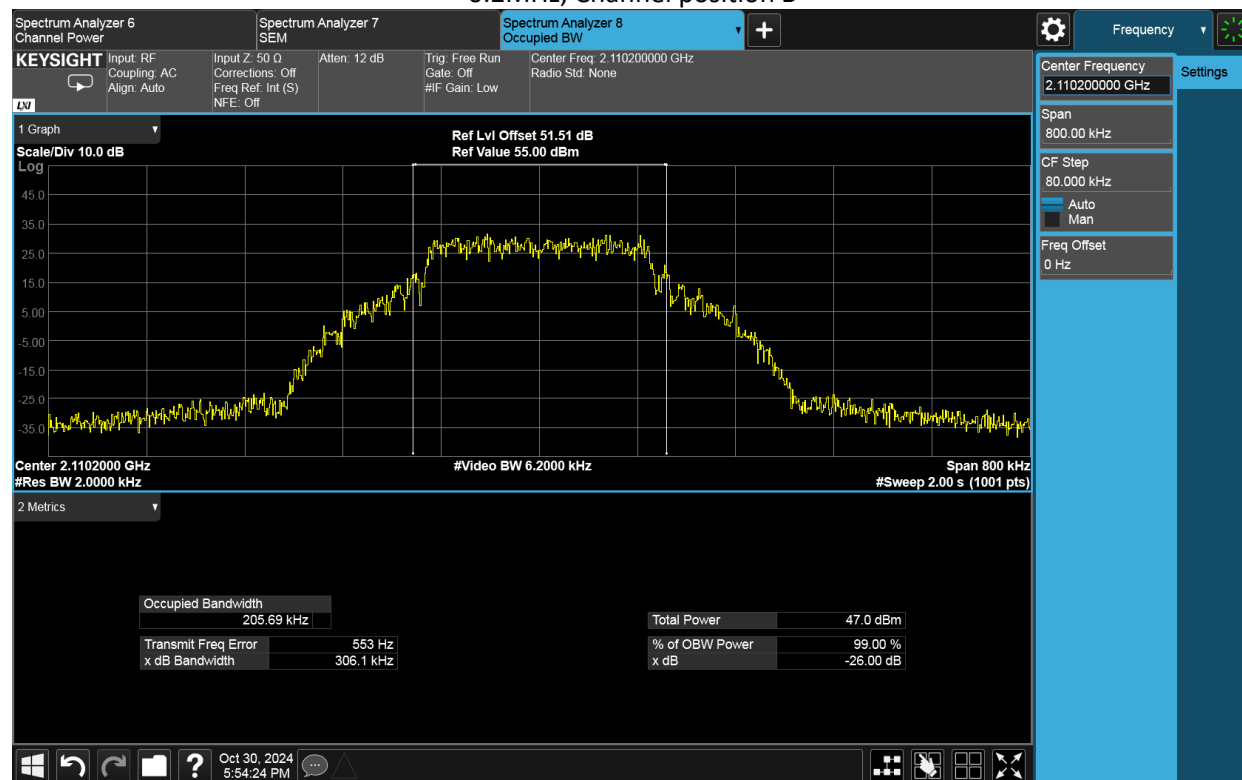
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (kHz)		
			Channel Position B	Channel Position M	Channel Position T
C	QPSK	0.2MHz	205.69	205.93	205.68

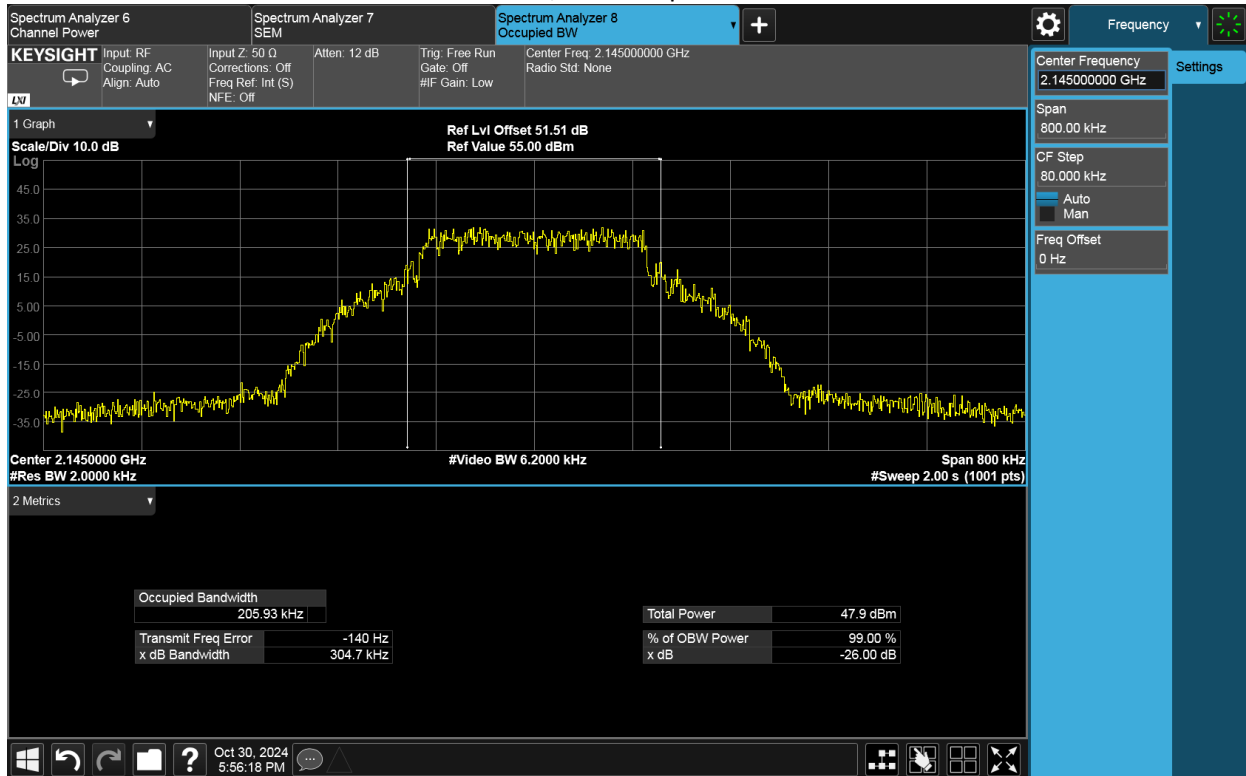
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (kHz)		
			Channel Position B	Channel Position M	Channel Position T
C	QPSK	0.2MHz	306.1	304.7	293.8

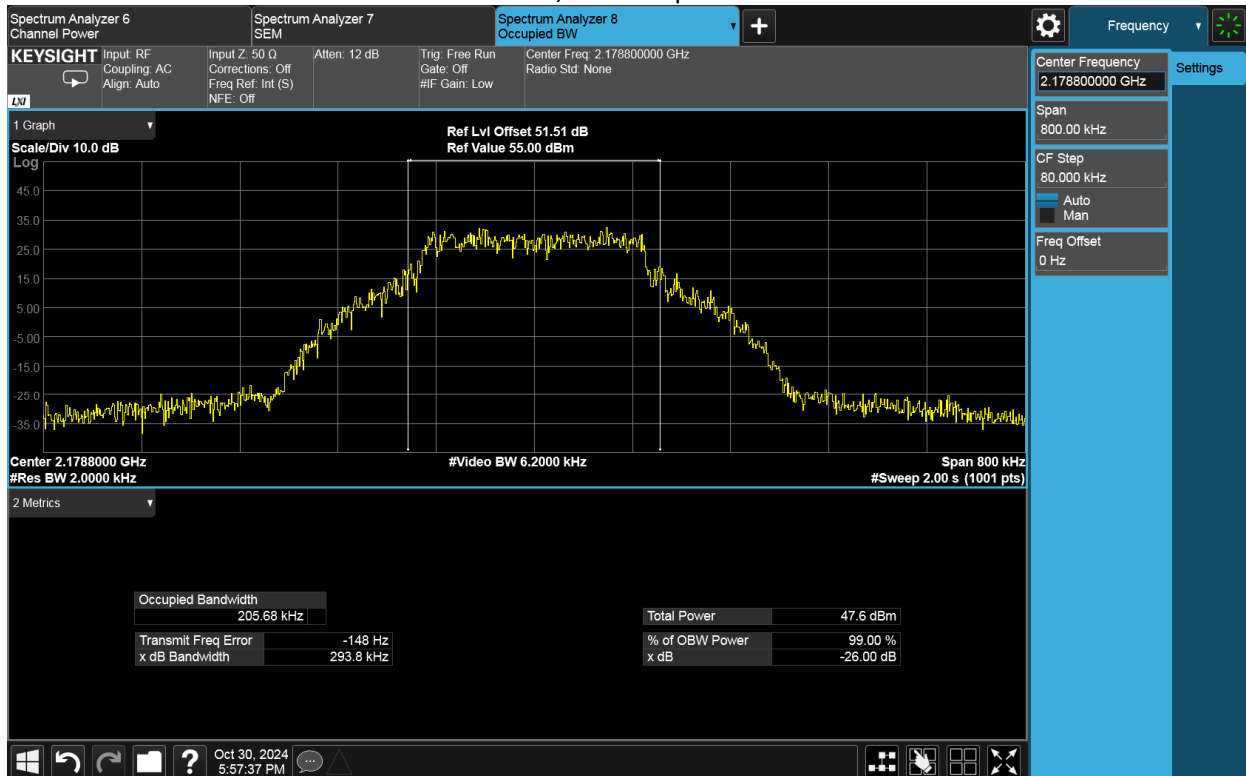
0.2MHz, Channel position B



0.2MHz, Channel position M



0.2MHz, Channel position T



TEST REPORT

5 Unwanted Emissions at Band Edge

Test result: Pass

5.1 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.

5.2 Measurement Procedure

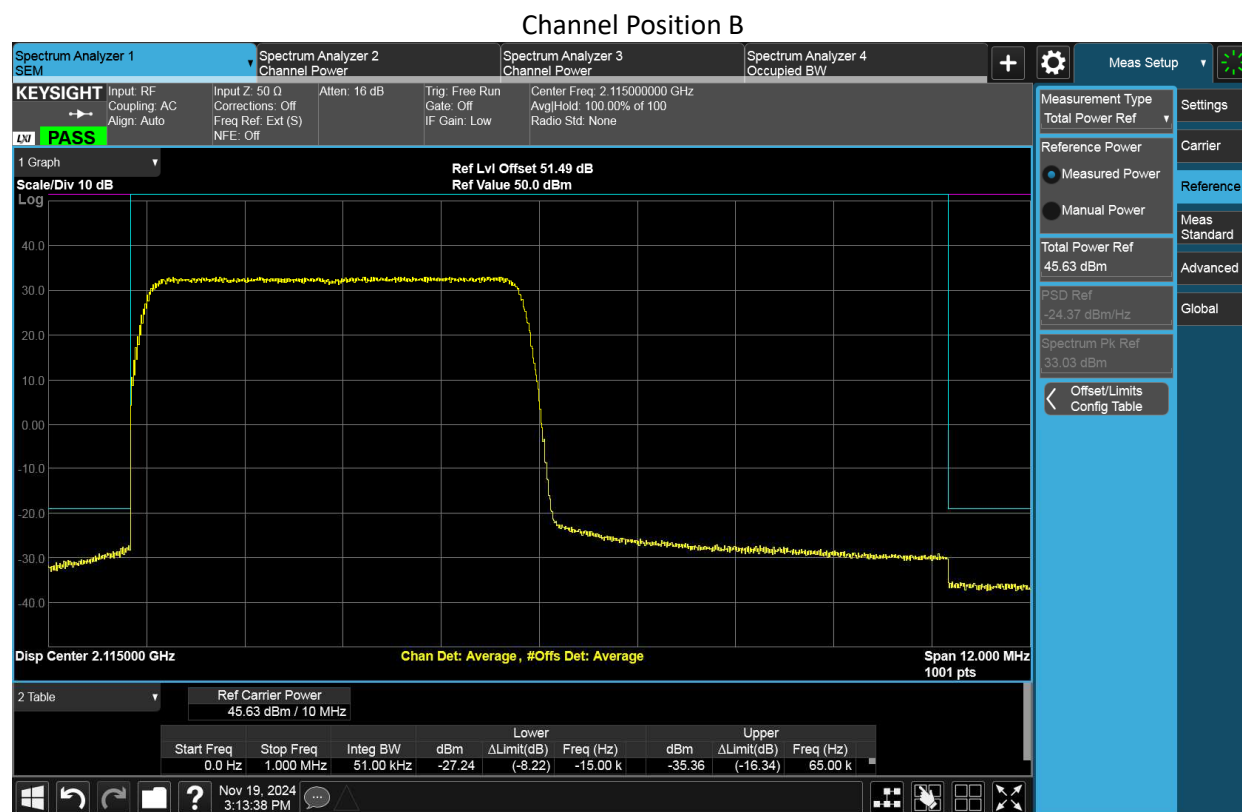
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [$10\log(1/4)$] by using the Measure and Add $10\log(N)$ dB technique. Then the limit was adjusted to -19.02dBm .

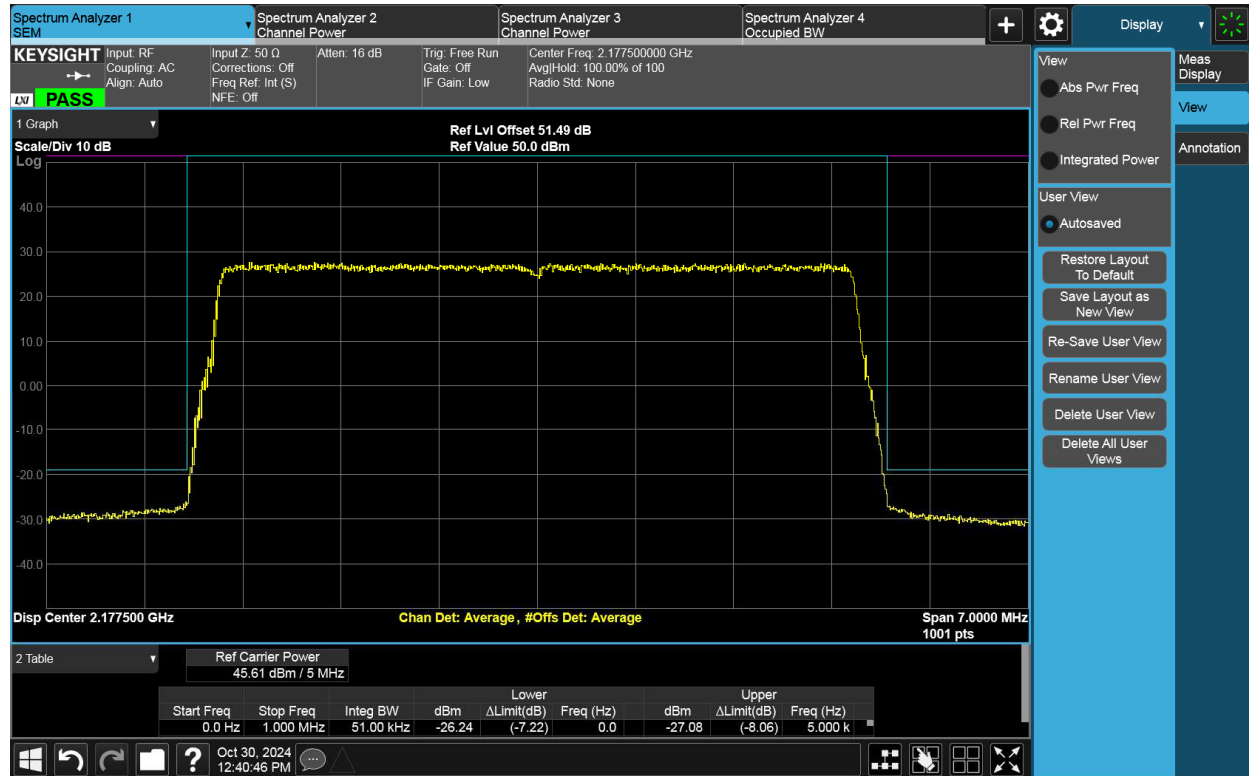
Spectrum analyzer detector was set as RMS.

5.3 Measurement result

RAT	Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
LTE-1C	C	B	64QAM	5	51	-19.02
LTE-1C	C	T	64QAM	5	51	-19.02

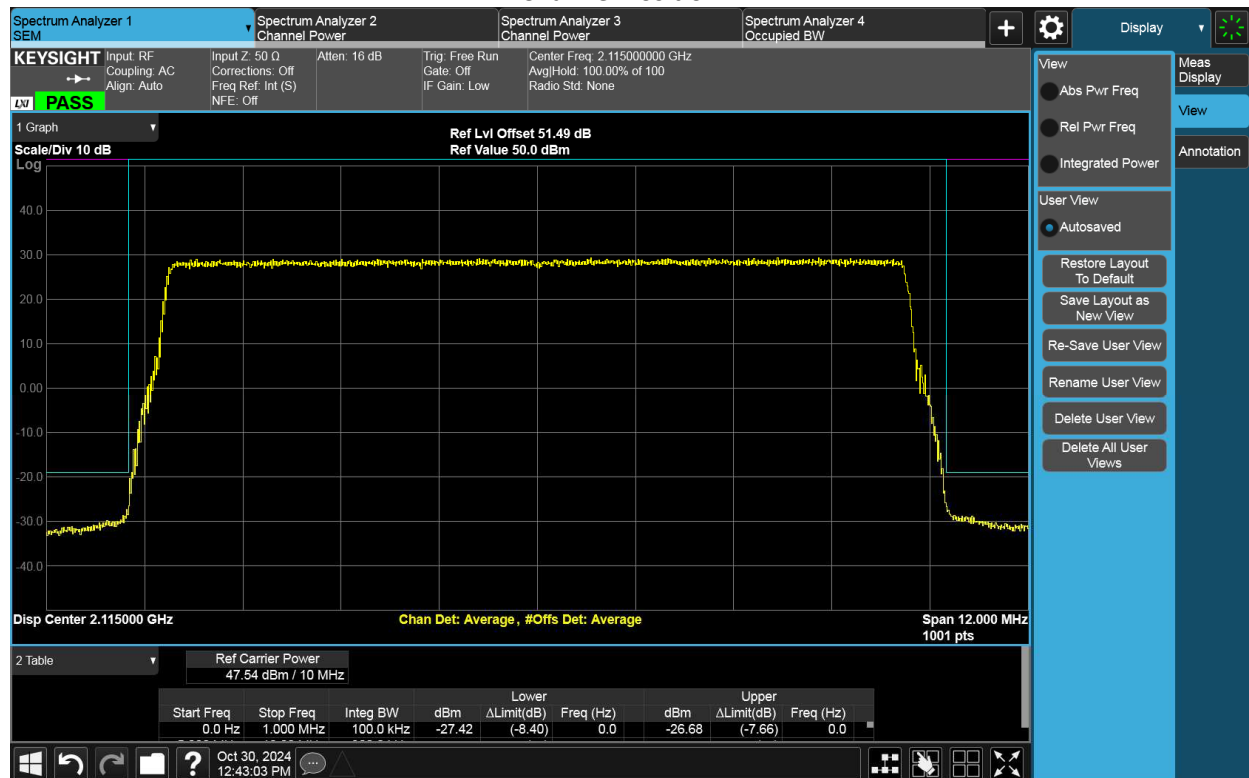


Channel Position T

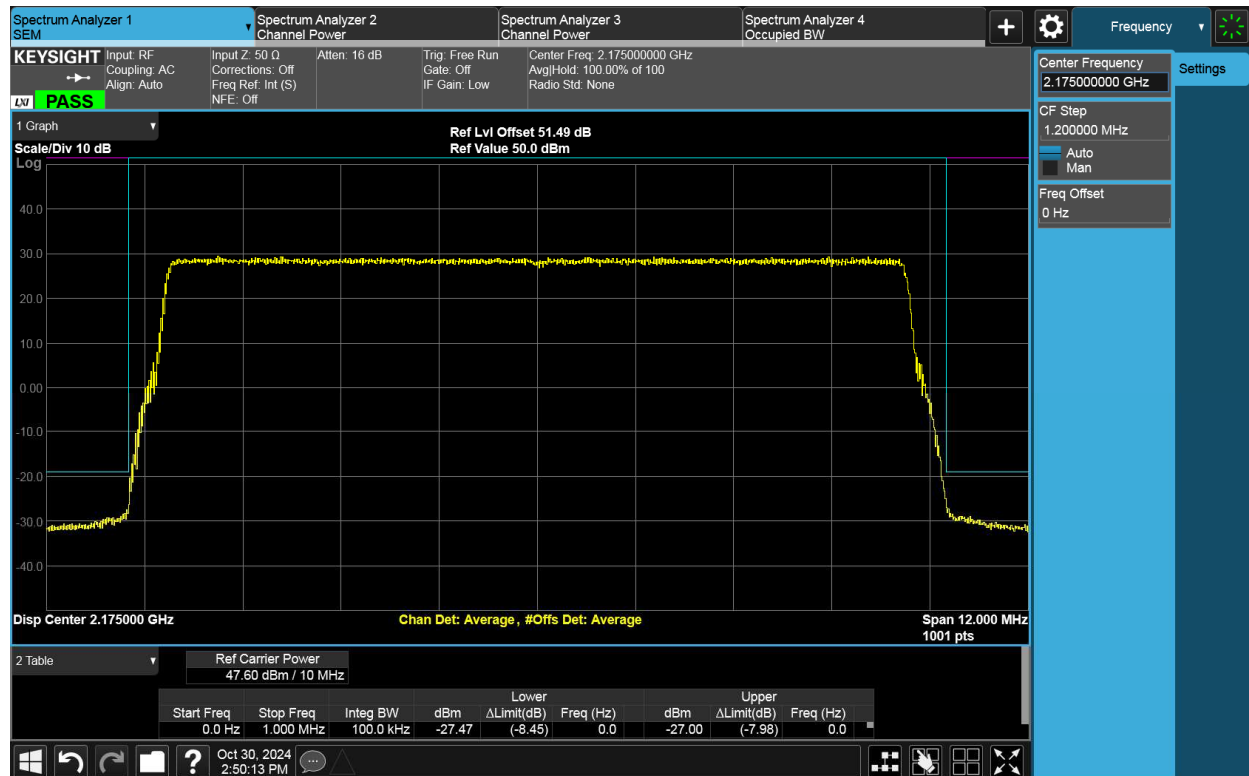


RAT	Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
LTE-1C	C	B	64QAM	10	100	-19.02
LTE-1C	C	T	64QAM	10	100	-19.02

Channel Position B

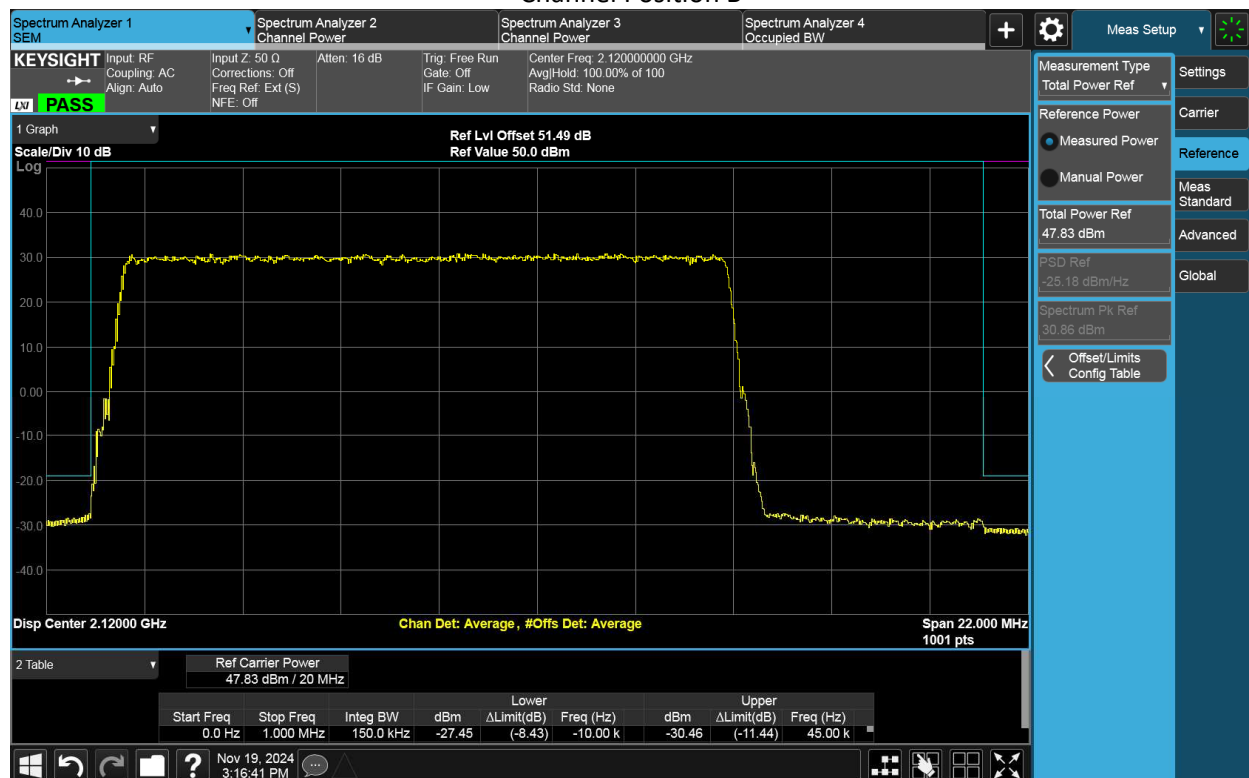


Channel Position T

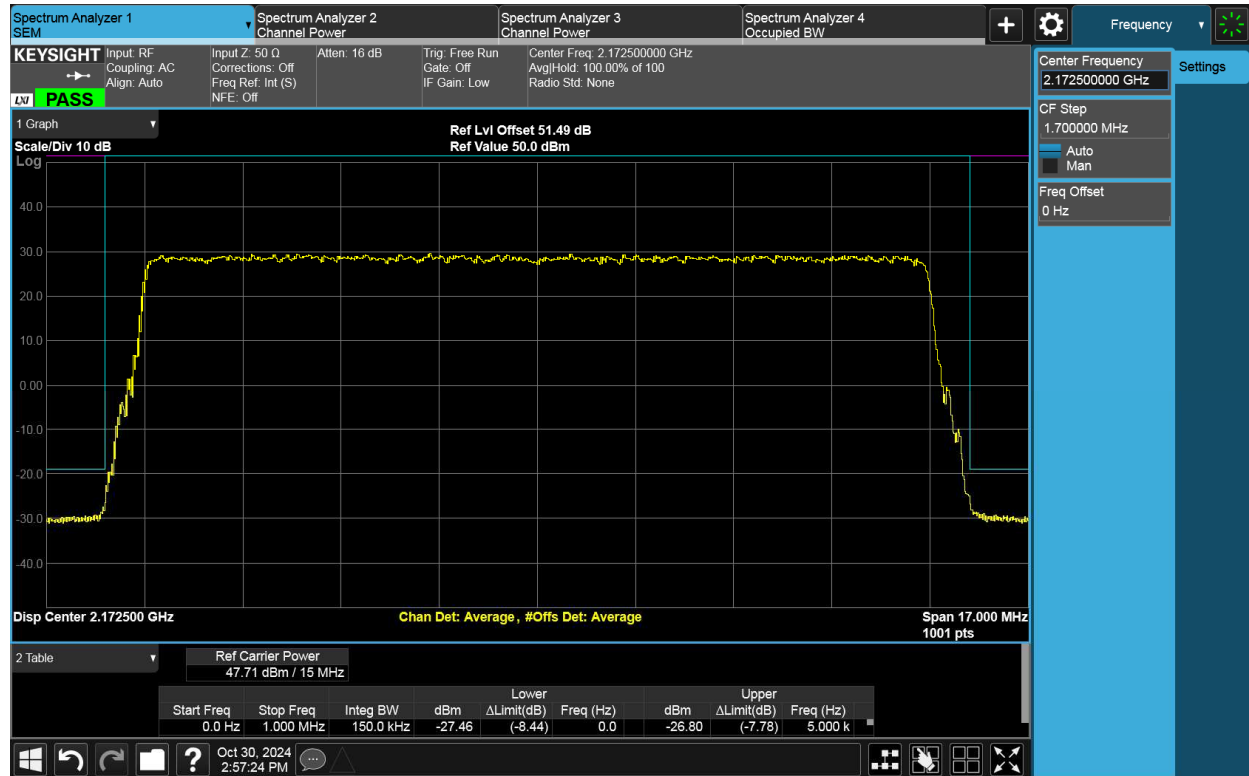


RAT	Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
LTE-1C	C	B	64QAM	15	150	-19.02
LTE-1C	C	T	64QAM	15	150	-19.02

Channel Position B

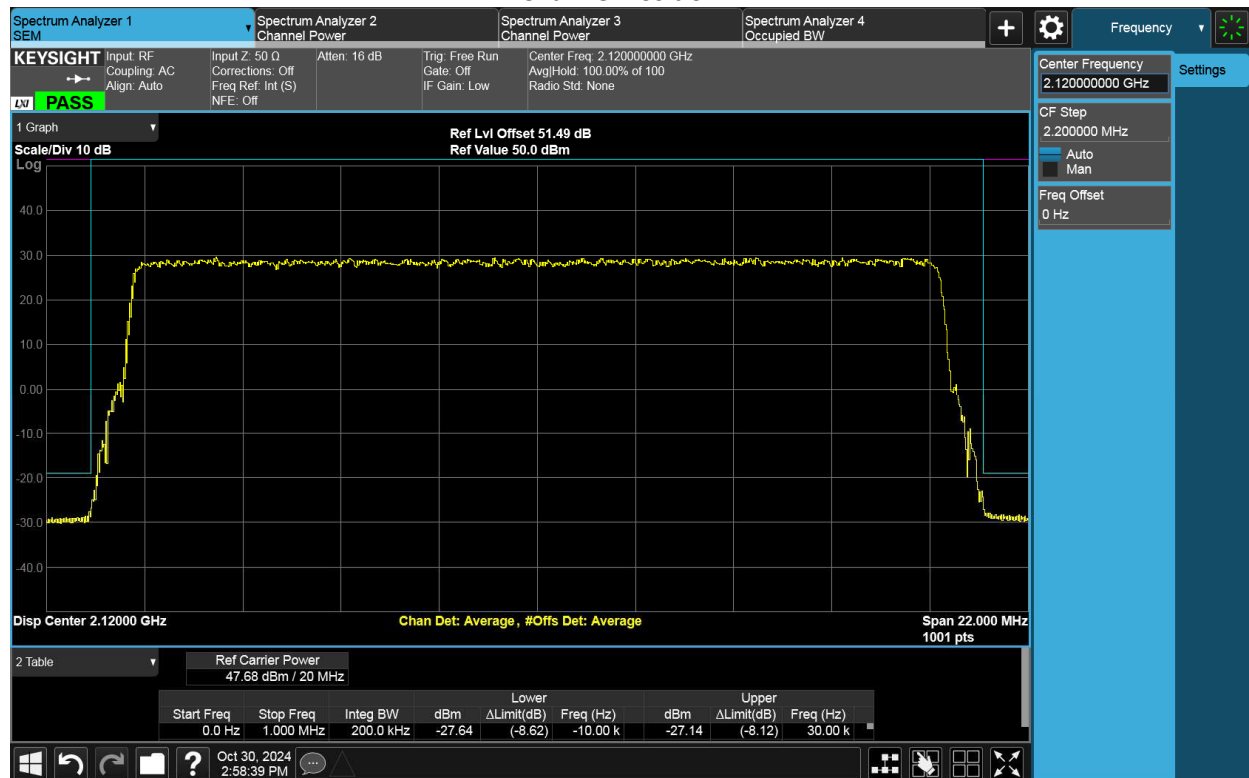


Channel Position T

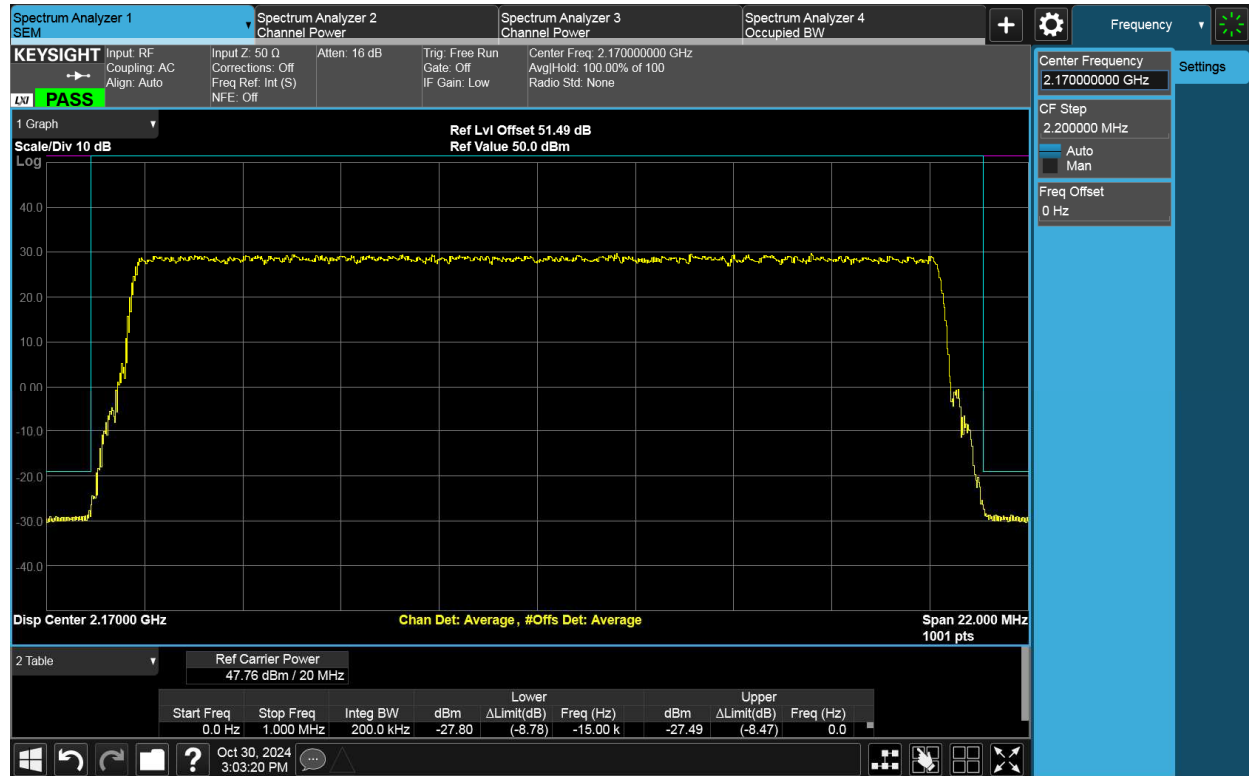


RAT	Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
LTE-1C	C	B	64QAM	20	200	-19.02
LTE-1C	C	T	64QAM	20	200	-19.02

Channel Position B



Channel Position T



RAT	Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
LTE-6C	C	M	64QAM	5	51	-19.02

Channel Position M

