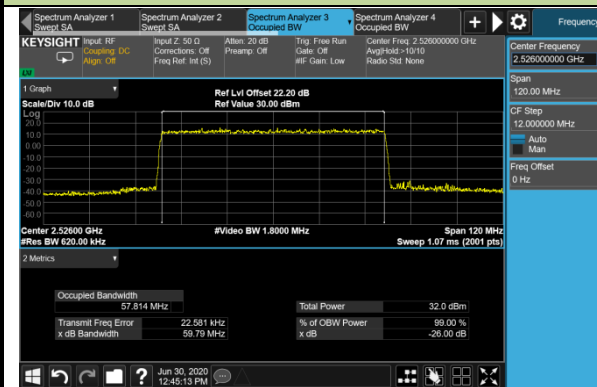
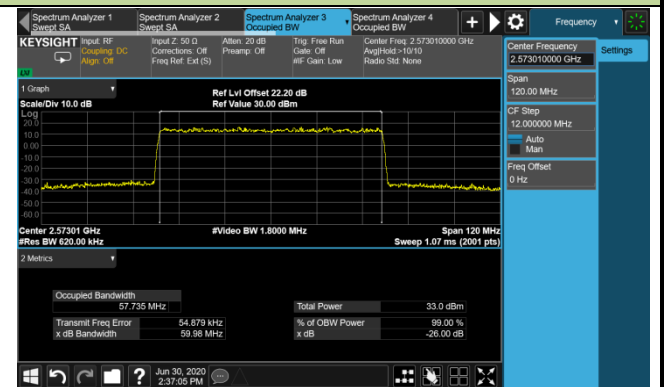


5G NR Emission Bandwidth - 64QAM

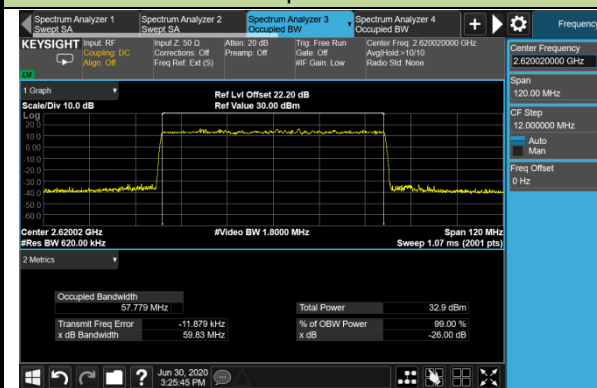
Bottom Channel



Middle Channel

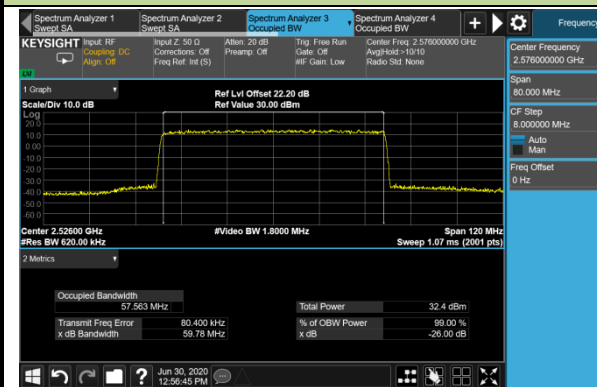


Top Channel

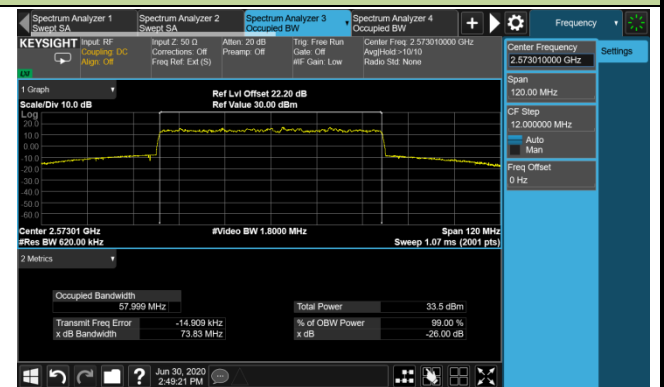


5G NR Emission Bandwidth - 256QAM

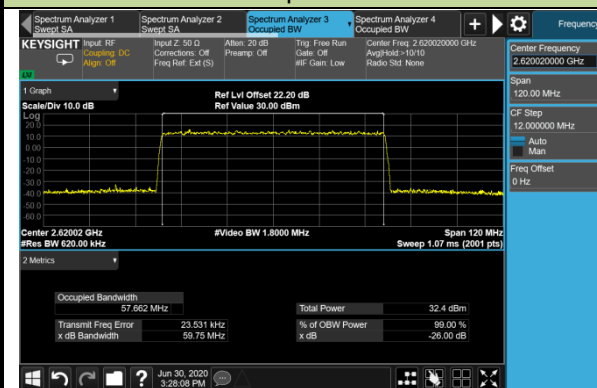
Bottom Channel



Middle Channel

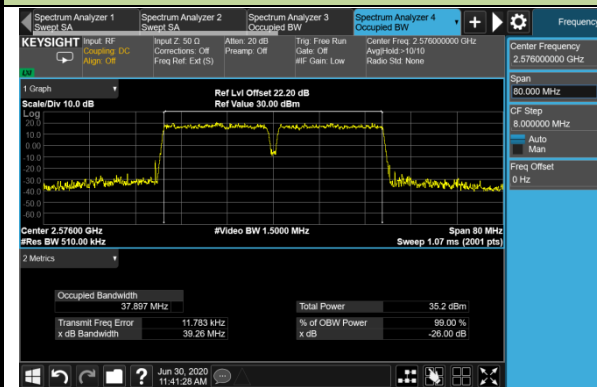


Top Channel

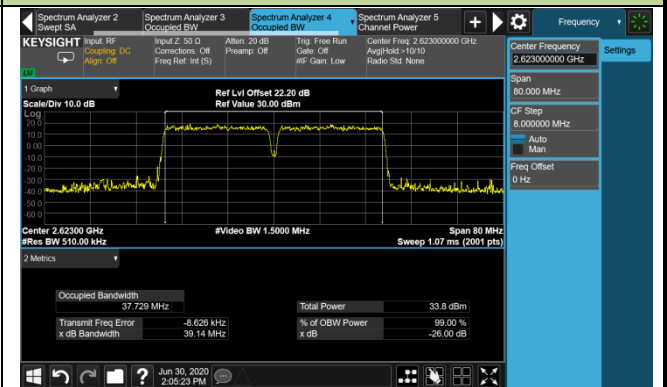


LTE Emission Bandwidth - QPSK

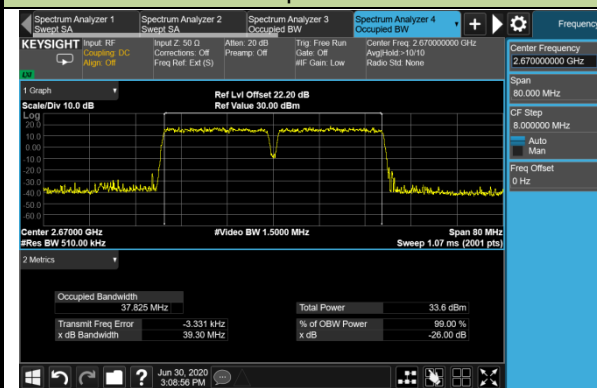
Bottom Channel



Middle Channel

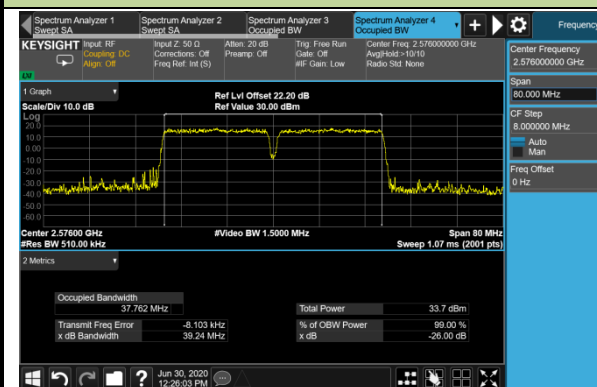


Top Channel

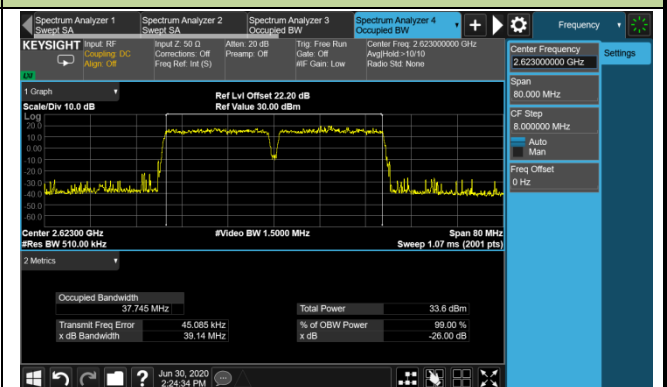


LTE Emission Bandwidth - 16QAM

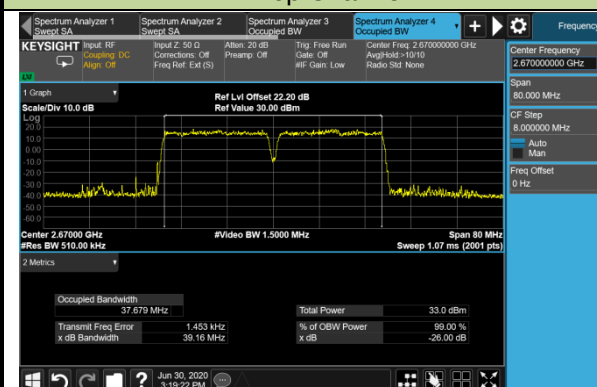
Bottom Channel



Middle Channel

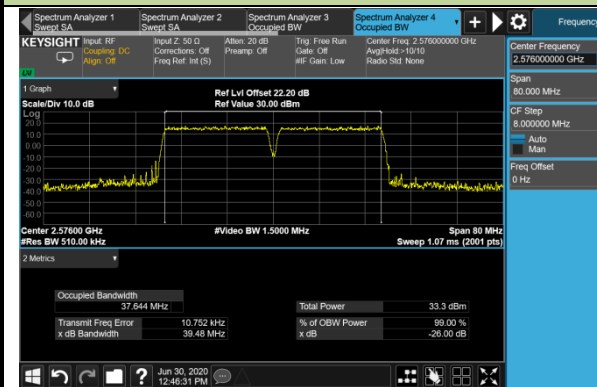


Top Channel

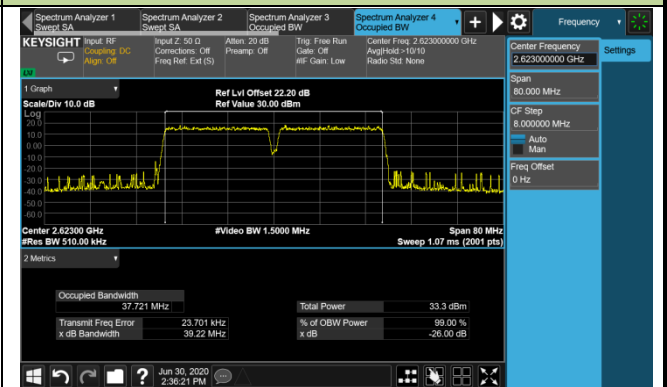


LTE Emission Bandwidth - 64QAM

Bottom Channel



Middle Channel

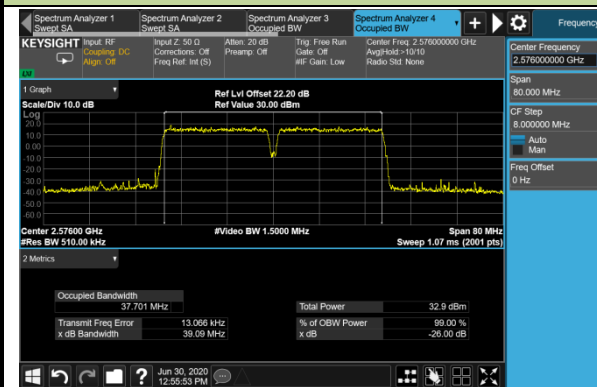


Top Channel

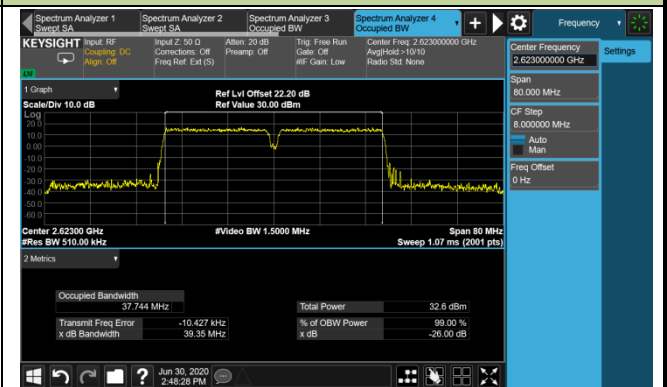


LTE Emission Bandwidth - 256QAM

Bottom Channel



Middle Channel



Top Channel

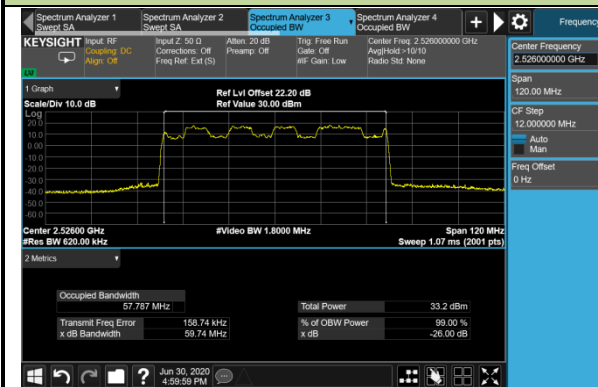


Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/06/30
Test Configuration	5G NR 60MHz + LTE 20 + 20 + 20MHz		
Test Channel	Bottom Channel: 5G NR 2526MHz, LTE 2566 + 2586 + 2606MHz Middle Channel: 5G NR 2563.02MHz, LTE 2603 + 2623 + 2643MHz Top Channel: 5G NR 2600.01MHz, LTE 2640 + 2660 + 2680MHz		

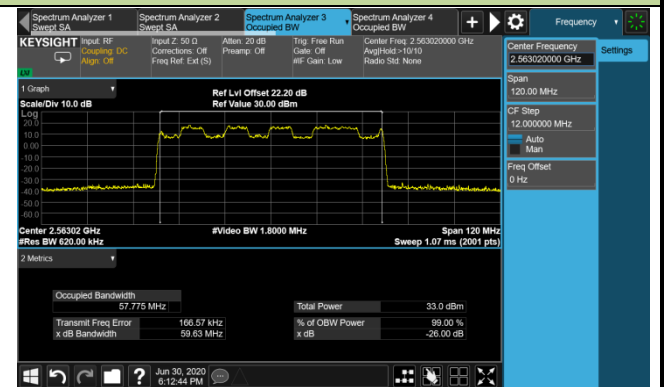
Modulation	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			5G NR	LTE		5G NR	LTE	
Ant 0 / Ant 0+1 (5G NR) + Ant 3 / Ant 2+3 (LTE)								
QPSK	Bottom	60+60	59.74	59.63	119.37	57.79	57.62	115.41
	Middle	60+60	59.63	59.60	119.23	57.78	57.65	115.43
	Top	60+60	59.74	59.65	119.39	57.75	57.58	115.33
16QAM	Bottom	60+60	59.92	59.53	119.45	57.76	57.57	115.33
	Middle	60+60	59.77	59.65	119.42	57.82	57.53	115.35
	Top	60+60	59.74	59.73	119.47	57.75	57.55	115.30
64QAM	Bottom	60+60	59.91	59.72	119.63	57.77	57.53	115.30
	Middle	60+60	59.89	59.68	119.57	57.83	57.46	115.29
	Top	60+60	59.87	59.63	119.50	57.79	57.49	115.28
256QAM	Bottom	60+60	59.92	59.68	119.60	57.67	57.55	115.22
	Middle	60+60	60.03	59.65	119.68	57.73	57.49	115.22
	Top	60+60	59.95	59.69	119.64	57.77	57.50	115.27

5G NR Emission Bandwidth - QPSK

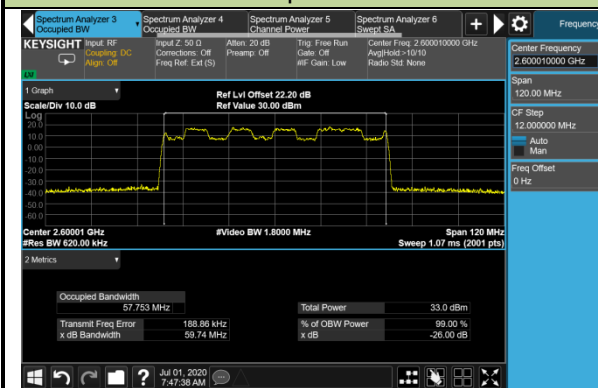
Bottom Channel



Middle Channel



Top Channel

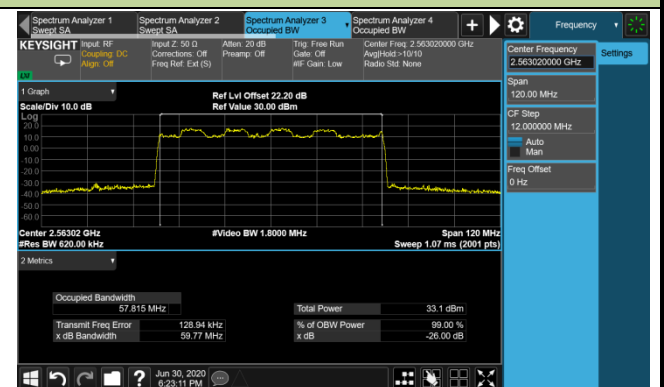


5G NR Emission Bandwidth - 16QAM

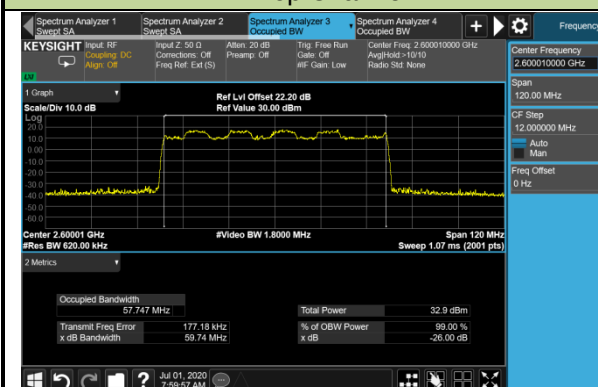
Bottom Channel



Middle Channel

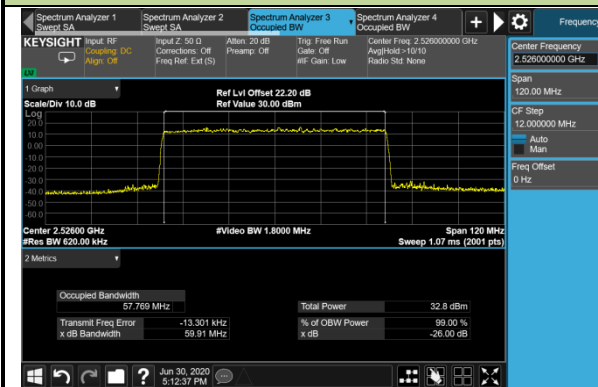


Top Channel

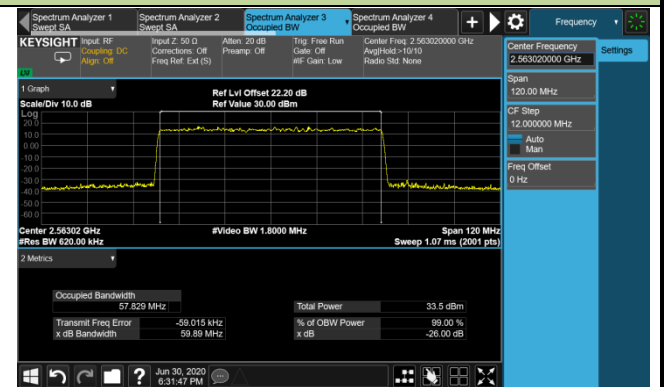


5G NR Emission Bandwidth - 64QAM

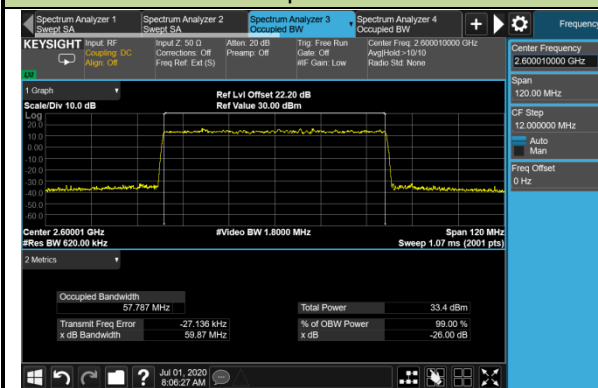
Bottom Channel



Middle Channel



Top Channel

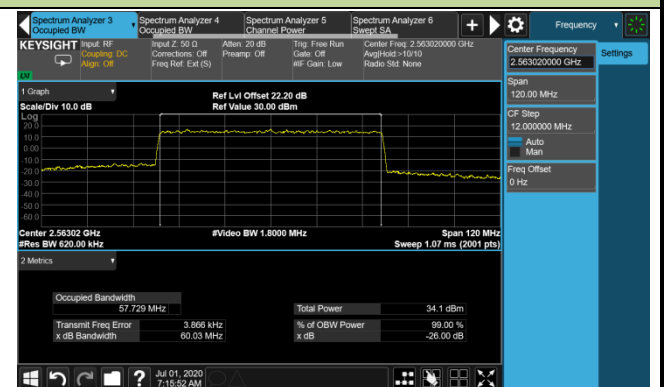


5G NR Emission Bandwidth - 256QAM

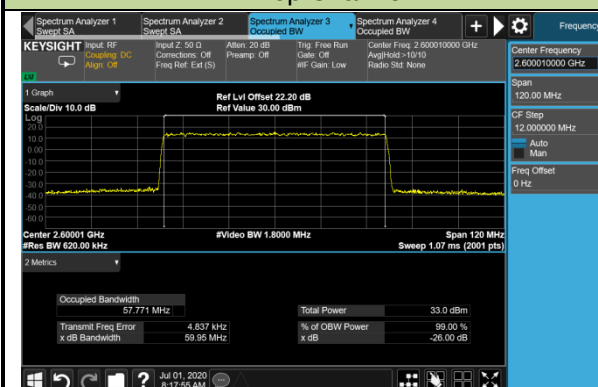
Bottom Channel



Middle Channel

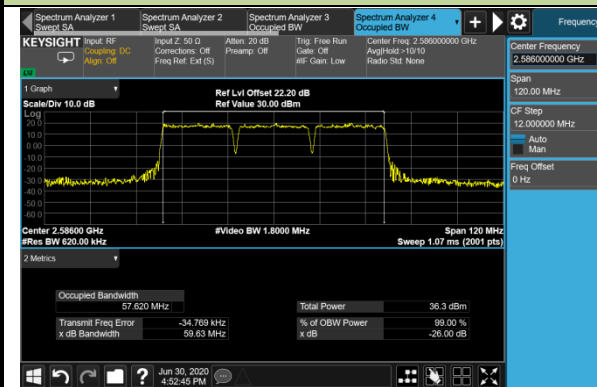


Top Channel

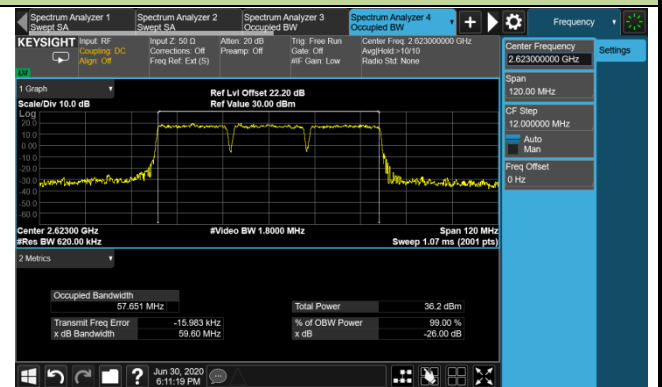


LTE Emission Bandwidth - QPSK

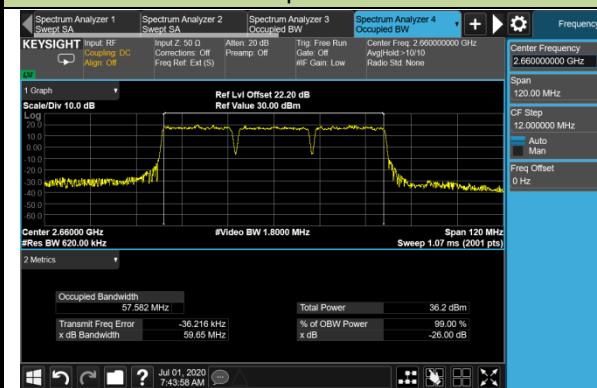
Bottom Channel



Middle Channel

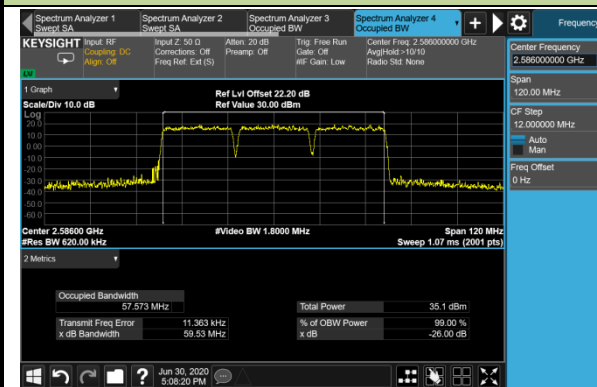


Top Channel

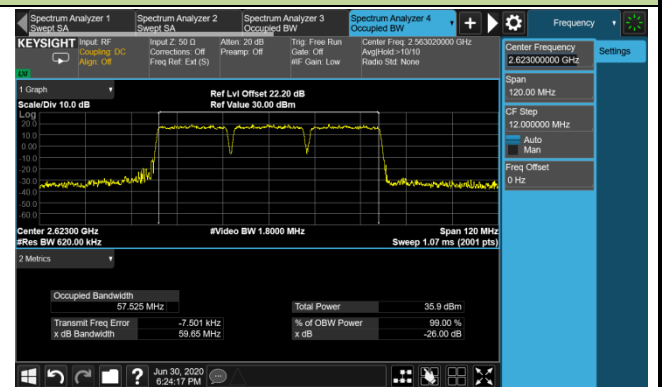


LTE Emission Bandwidth - 16QAM

Bottom Channel



Middle Channel

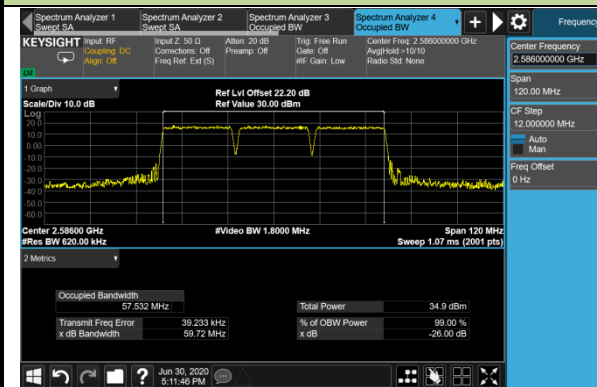


Top Channel

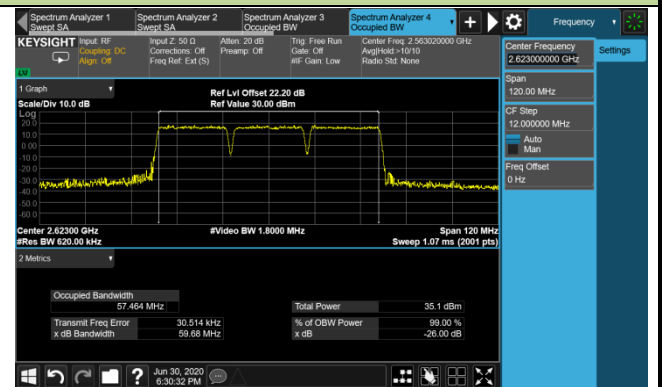


LTE Emission Bandwidth - 64QAM

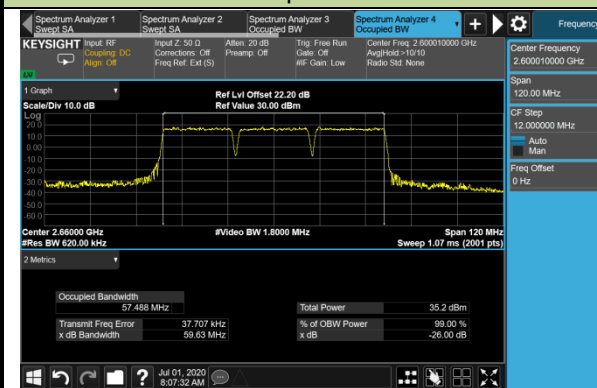
Bottom Channel



Middle Channel

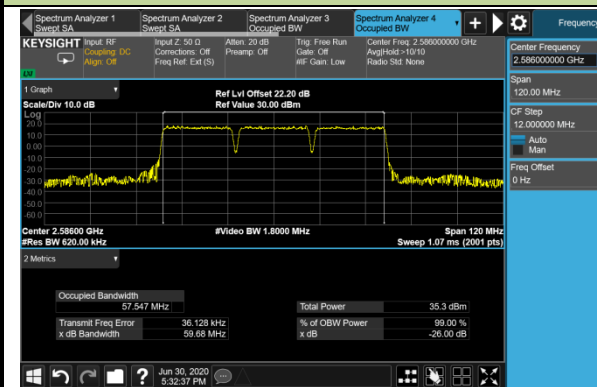


Top Channel

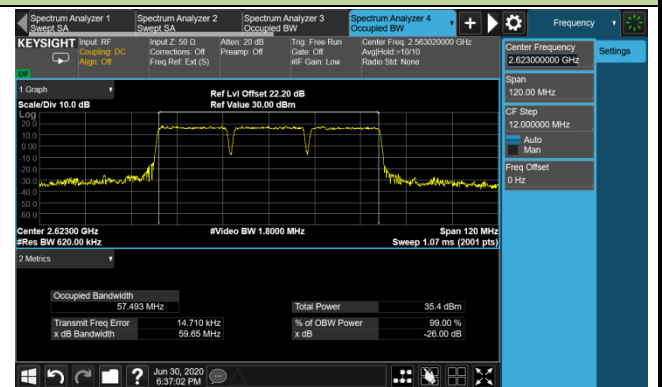


LTE Emission Bandwidth - 256QAM

Bottom Channel



Middle Channel



Top Channel

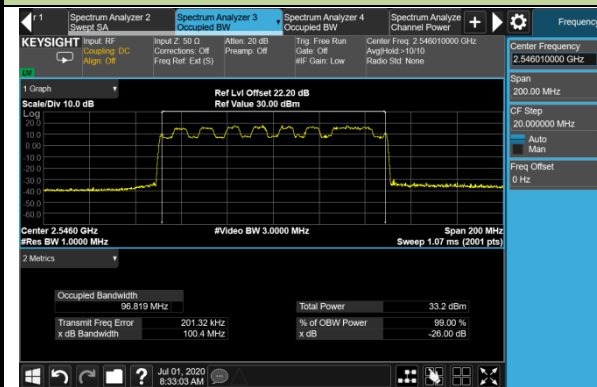


Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/07/01
Test Configuration	5G NR 100MHz + LTE 20MHz		
Test Channel	Bottom Channel: 5G NR 2546.01MHz, LTE 2606MHz Middle Channel: 5G NR 2583MHz, LTE 2643MHz Top Channel: 5G NR 2620.02MHz, LTE 2680MHz		

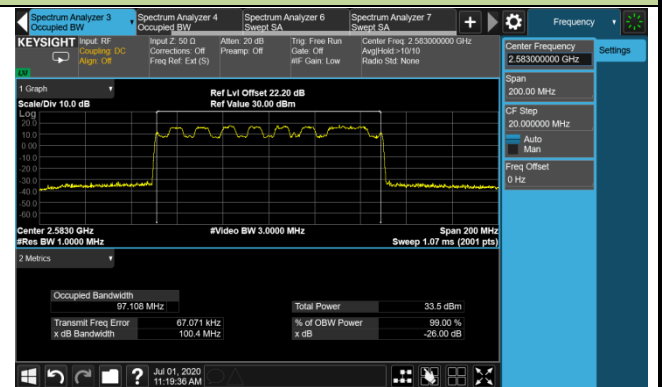
Modulation	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			5G NR	LTE		5G NR	LTE	
Ant 0 / Ant 0+1 (5G NR) + Ant 3 / Ant 2+3 (LTE)								
QPSK	Bottom	100+20	100.4	19.07	119.47	96.82	17.89	114.71
	Middle	100+20	100.4	18.51	118.91	97.11	17.89	115.00
	Top	100+20	100.3	18.50	118.80	97.02	17.92	114.94
16QAM	Bottom	100+20	100.6	18.41	119.01	96.78	17.79	114.57
	Middle	100+20	100.4	18.69	119.09	96.95	17.87	114.82
	Top	100+20	100.4	18.44	118.84	96.93	17.77	114.70
64QAM	Bottom	100+20	100.6	18.63	119.23	97.03	17.79	114.82
	Middle	100+20	100.5	18.57	119.07	97.18	17.79	114.97
	Top	100+20	100.5	18.88	119.38	97.17	17.79	114.96
256QAM	Bottom	100+20	100.5	18.55	119.05	97.26	17.88	115.14
	Middle	100+20	100.6	18.74	119.34	97.41	17.83	115.24
	Top	100+20	100.7	18.62	119.32	97.37	17.79	115.16

5G NR Emission Bandwidth - QPSK

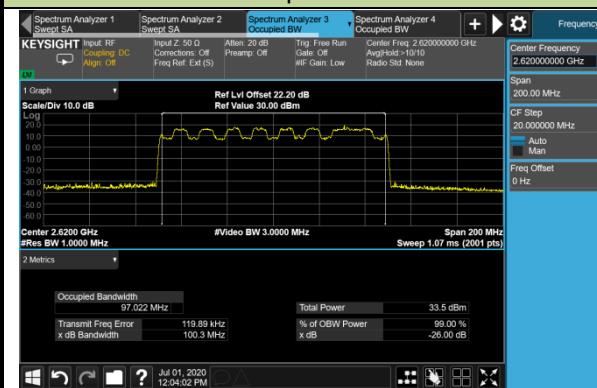
Bottom Channel



Middle Channel

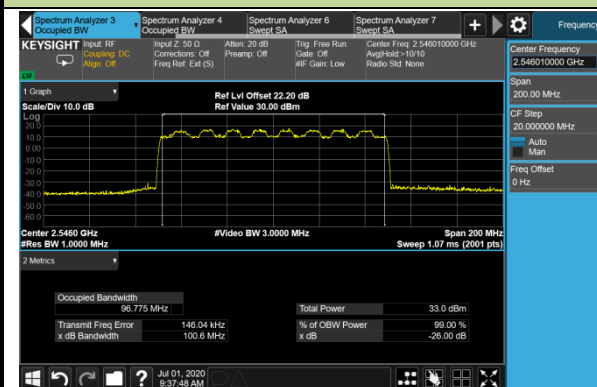


Top Channel

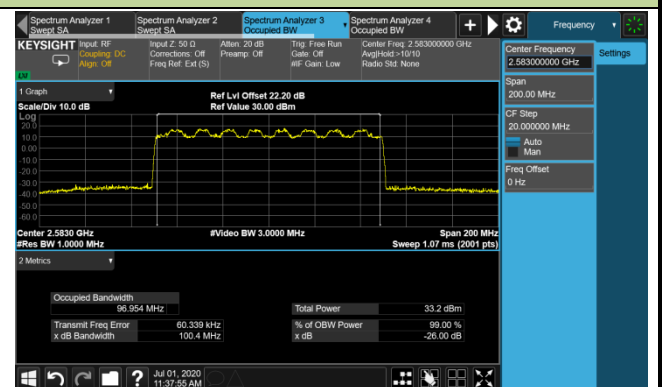


5G NR Emission Bandwidth - 16QAM

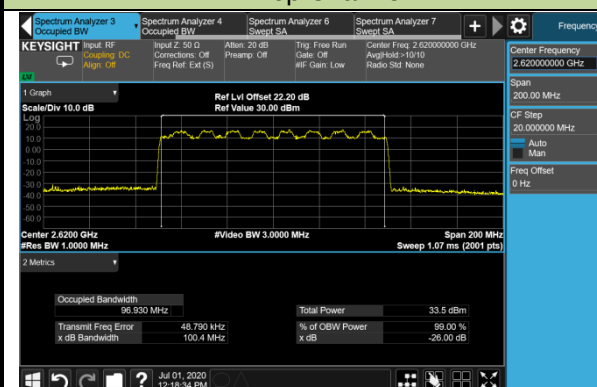
Bottom Channel



Middle Channel

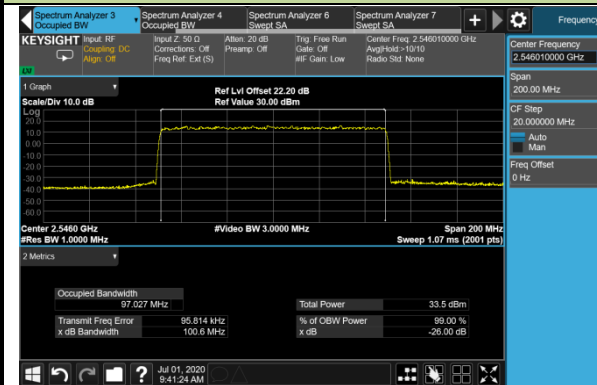


Top Channel

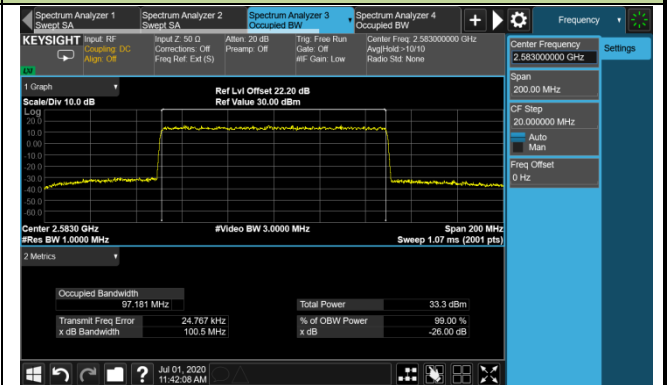


5G NR Emission Bandwidth - 64QAM

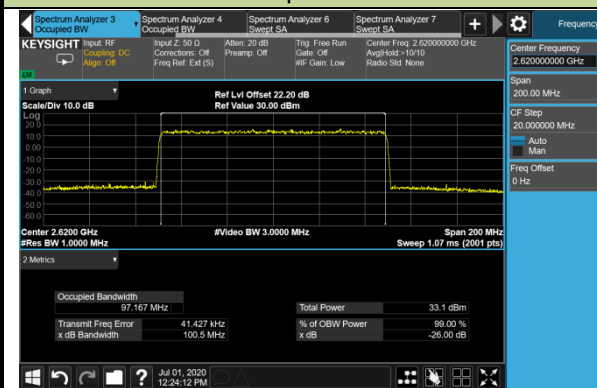
Bottom Channel



Middle Channel

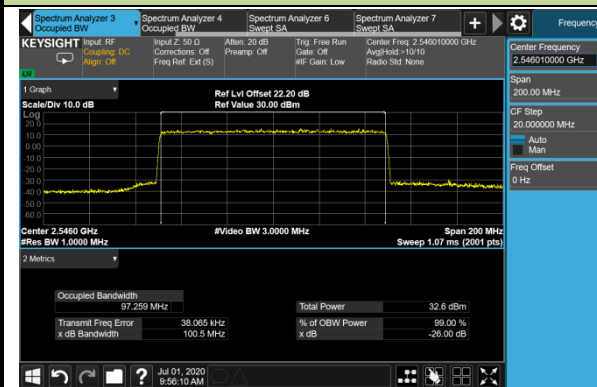


Top Channel

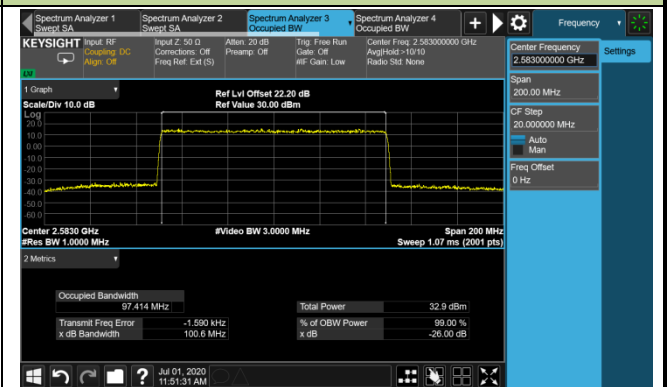


5G NR Emission Bandwidth - 256QAM

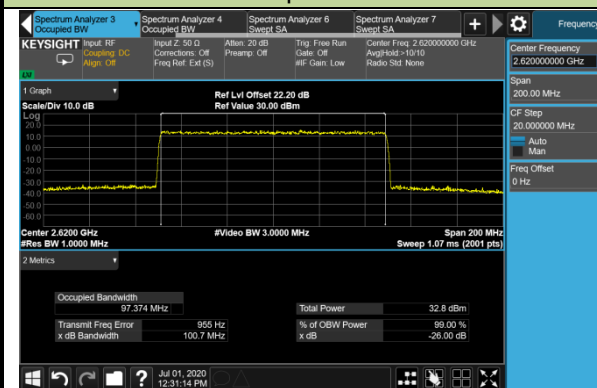
Bottom Channel



Middle Channel



Top Channel

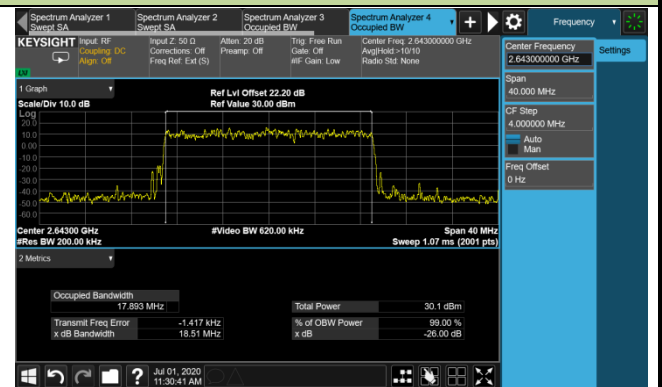


LTE Emission Bandwidth - QPSK

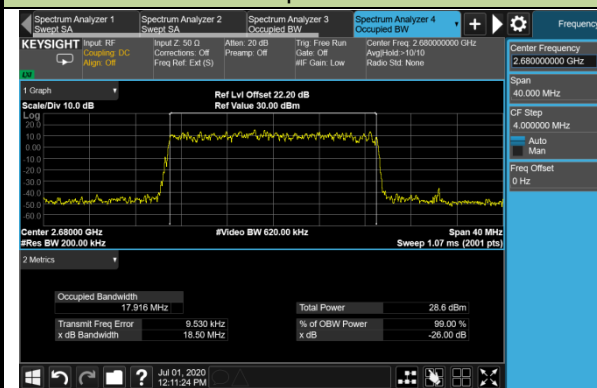
Bottom Channel



Middle Channel

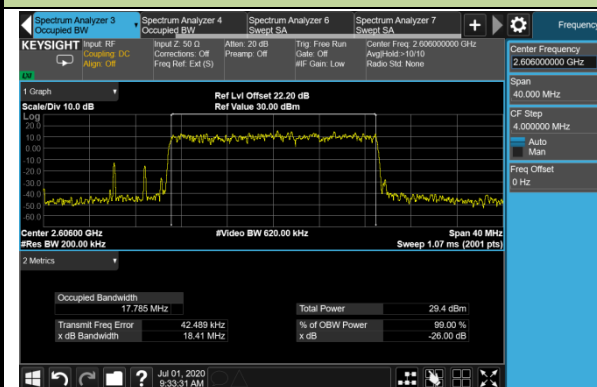


Top Channel

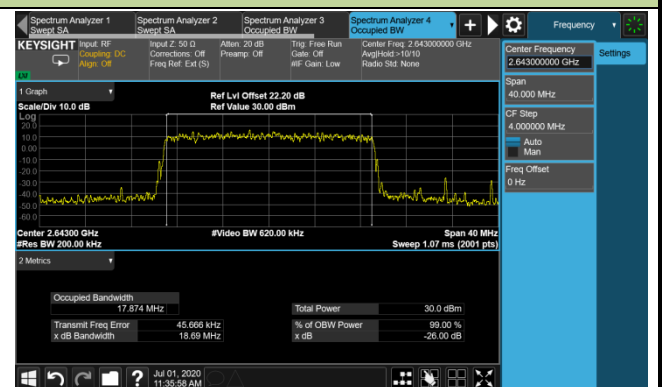


LTE Emission Bandwidth - 16QAM

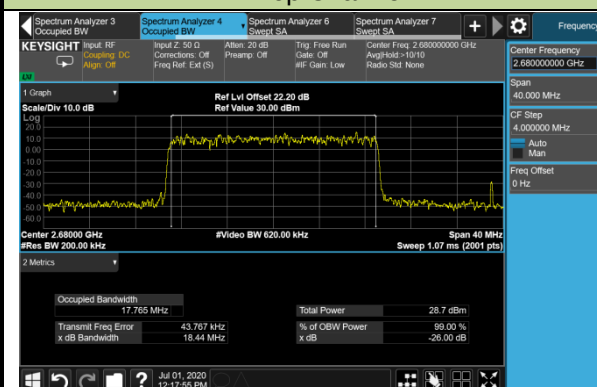
Bottom Channel



Middle Channel

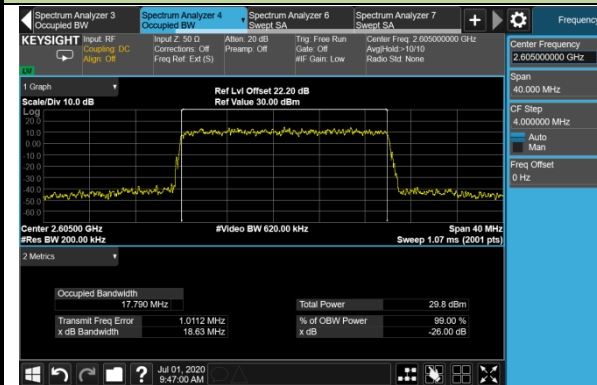


Top Channel

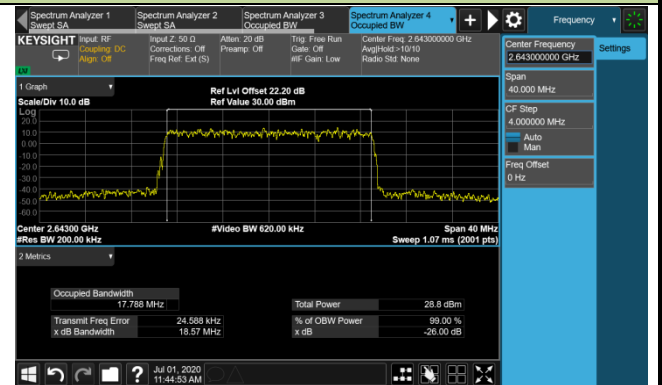


LTE Emission Bandwidth - 64QAM

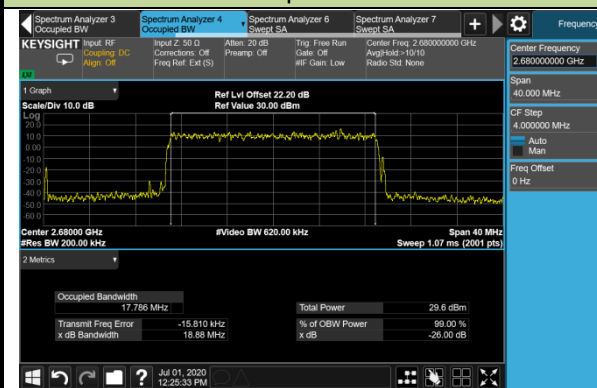
Bottom Channel



Middle Channel

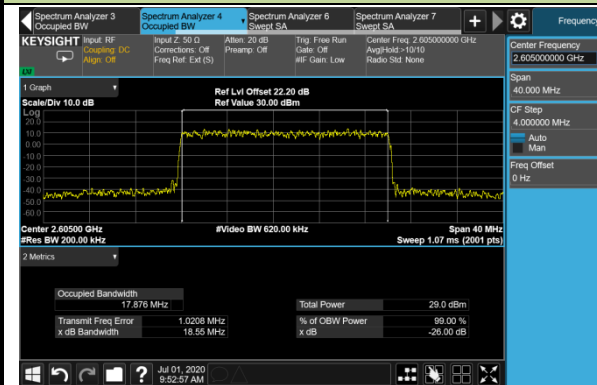


Top Channel

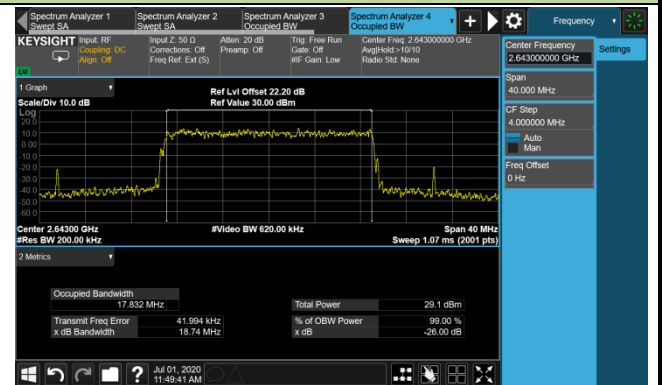


LTE Emission Bandwidth - 256QAM

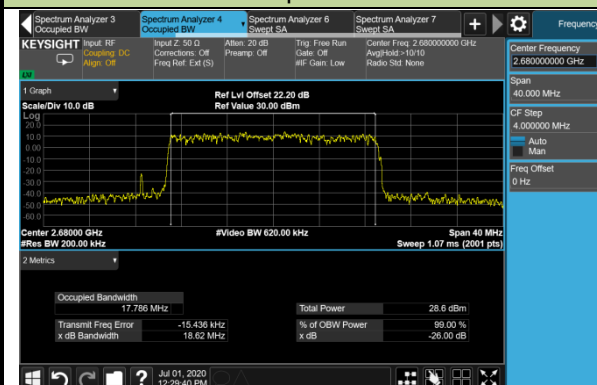
Bottom Channel



Middle Channel



Top Channel



Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/07/01
Test Configuration	5G NR 100MHz + LTE 20 + 20MHz		
Test Channel	Bottom Channel: 5G NR 2546.01MHz, LTE 2606 + 2626MHz Middle Channel: 5G NR 2573.01MHz, LTE 2633 + 2653MHz Top Channel: 5G NR 2600.01MHz, LTE 2660 + 2680MHz		

Modulation	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			5G NR	LTE		5G NR	LTE	
Ant 0 / Ant 0+1 (5G NR) + Ant 3 / Ant 2+3 (LTE)								
QPSK	Bottom	100+40	100.3	39.27	139.57	96.65	37.69	134.34
	Middle	100+40	100.3	56.75	157.05	96.95	39.89	136.84
	Top	100+40	100.3	38.95	139.25	96.96	37.78	134.74
16QAM	Bottom	100+40	100.6	56.39	156.99	96.87	37.62	134.49
	Middle	100+40	100.5	41.07	141.57	97.05	39.65	136.70
	Top	100+40	100.4	39.26	139.66	96.96	37.59	134.55
64QAM	Bottom	100+40	100.5	39.11	139.61	97.12	37.61	134.73
	Middle	100+40	100.7	54.29	154.99	97.32	39.70	137.02
	Top	100+40	100.6	39.05	139.65	97.25	37.74	134.99
256QAM	Bottom	100+40	100.5	45.19	145.69	97.23	37.75	134.98
	Middle	100+40	100.6	52.19	152.79	97.40	39.71	137.11
	Top	100+40	100.7	62.41	163.11	97.37	37.72	135.09