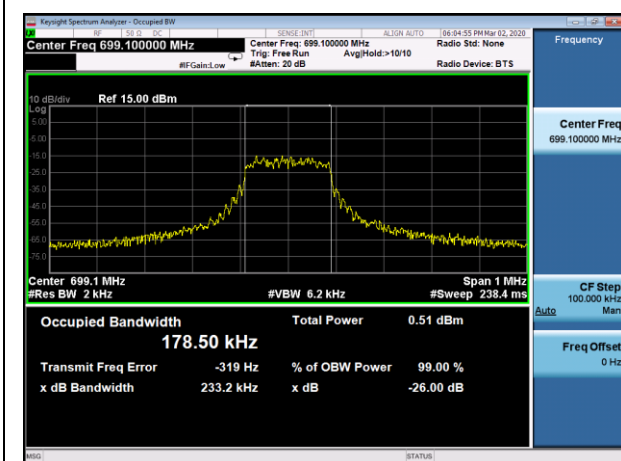


12 Tones 15kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	178.50	179.89	178.66
-26 dBc bandwidth (kHz)	233.2	233.5	235.3

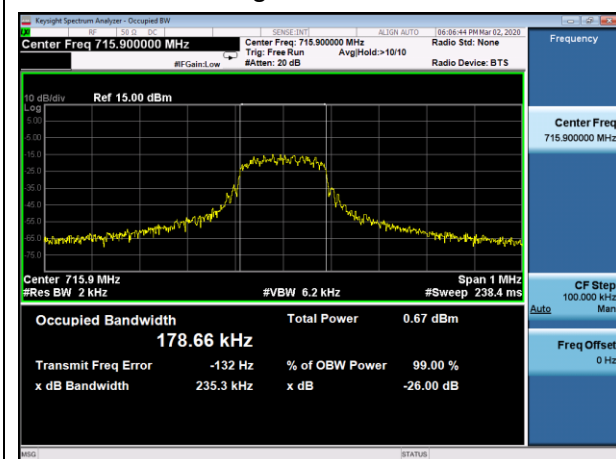
Lowest channel



Middle channel



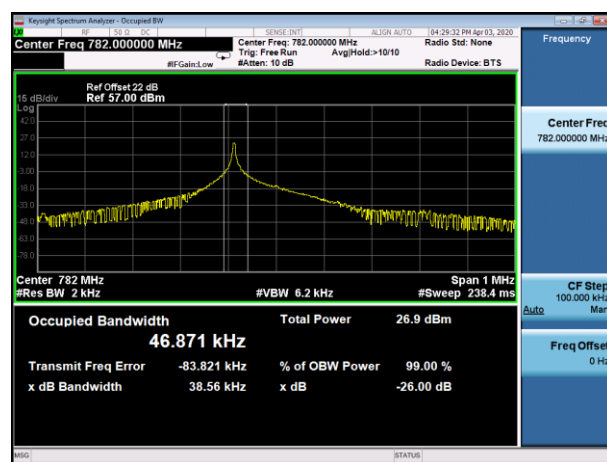
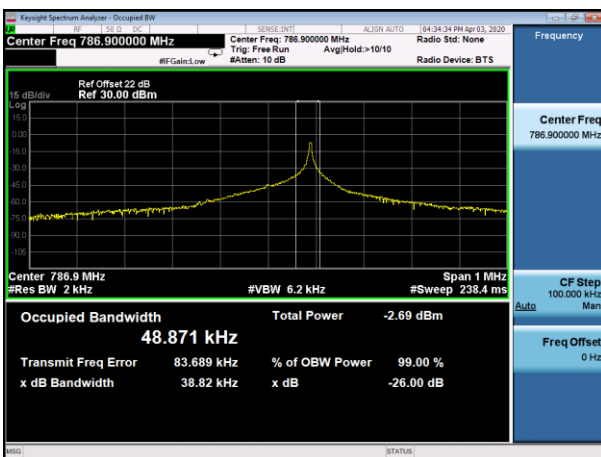
Highest channel



NB IoT Band 13

Tone 3.75kHz BPSK Modulation

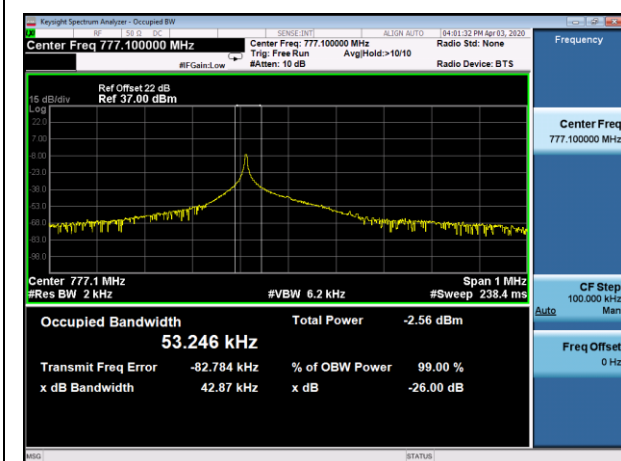
Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	48.217	46.871	48.871
-26 dBc bandwidth (kHz)	38.59	38.56	38.82

Lowest channel**Middle channel****Highest channel**

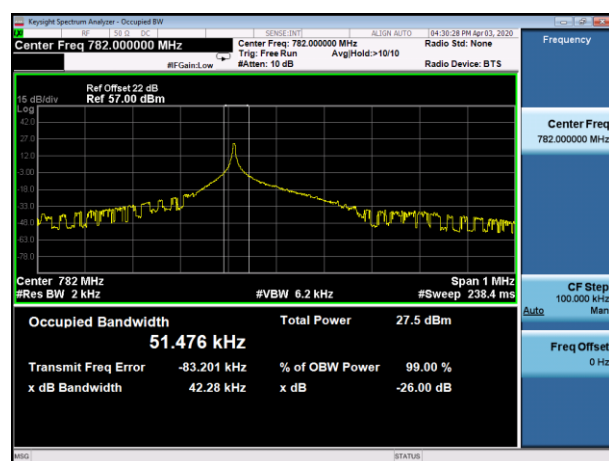
Tone 3.75kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	53.246	51.476	51.218
-26 dBc bandwidth (kHz)	42.87	42.28	42.41

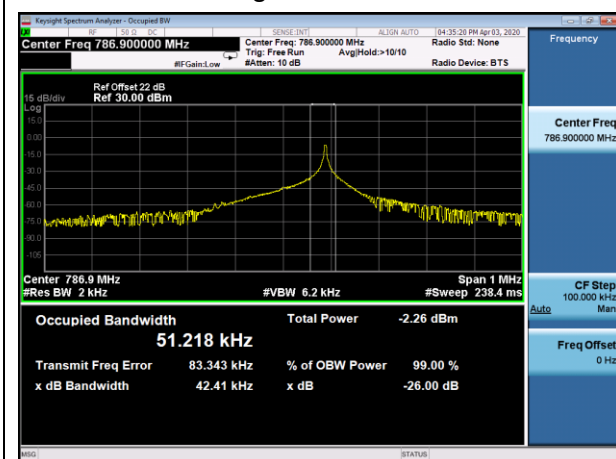
Lowest channel



Middle channel



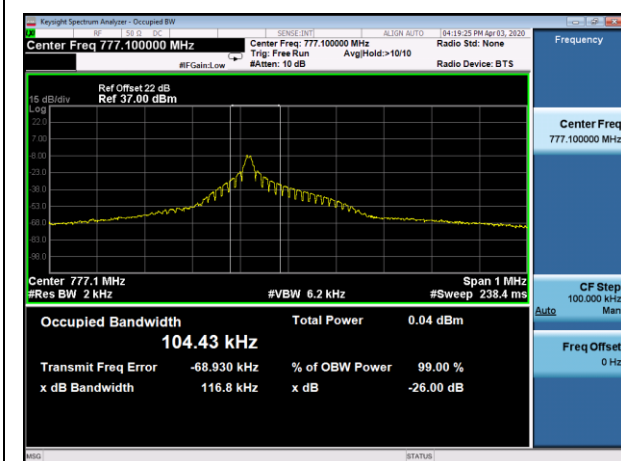
Highest channel



Tone 15kHz BPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	104.43	103.07	102.00
-26 dBc bandwidth (kHz)	116.8	113.3	116.9

Lowest channel



Middle channel



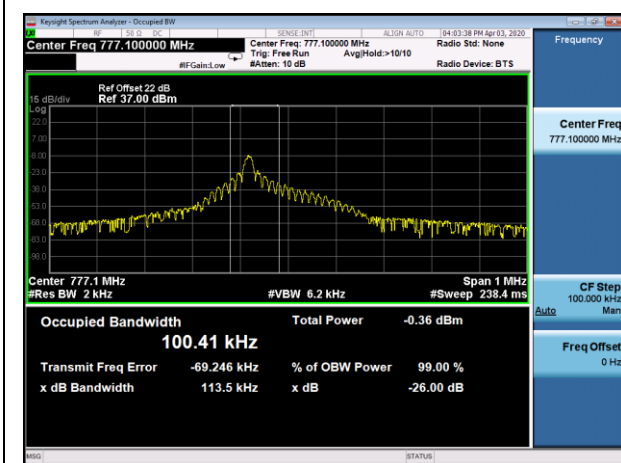
Highest channel



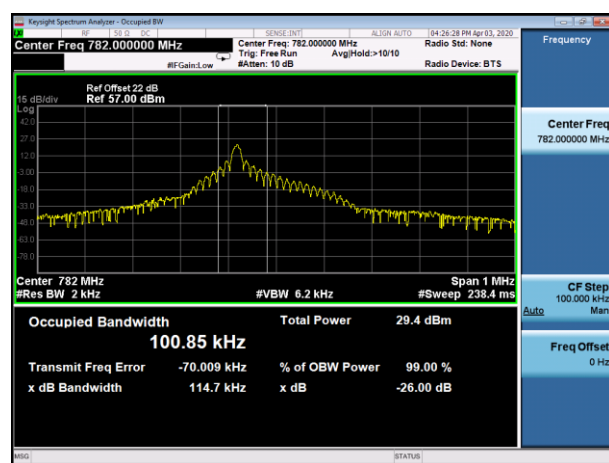
Tone 15kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	100.41	100.85	102.72
-26 dBc bandwidth (kHz)	113.5	114.7	117.0

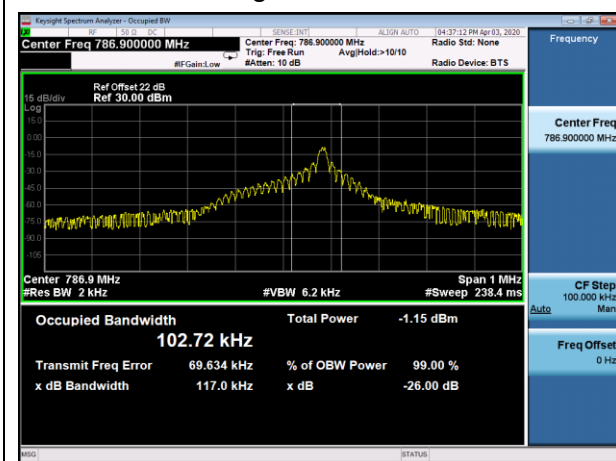
Lowest channel



Middle channel



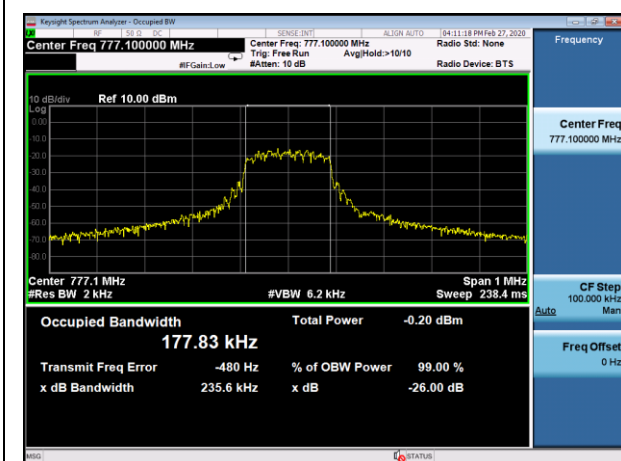
Highest channel



12 Tones 15kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	177.83	178.56	178.92
-26 dBc bandwidth (kHz)	235.6	233.9	233.1

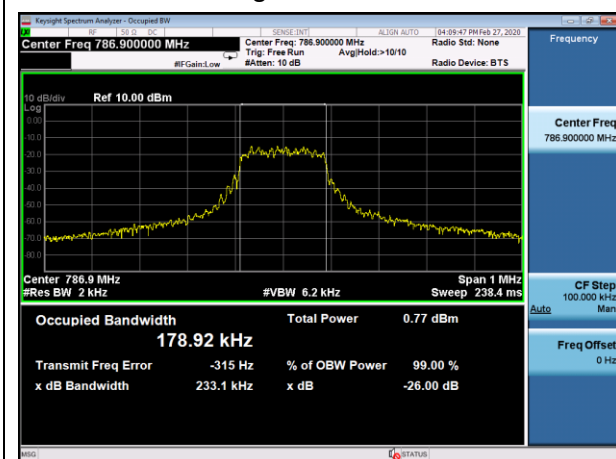
Lowest channel



Middle channel



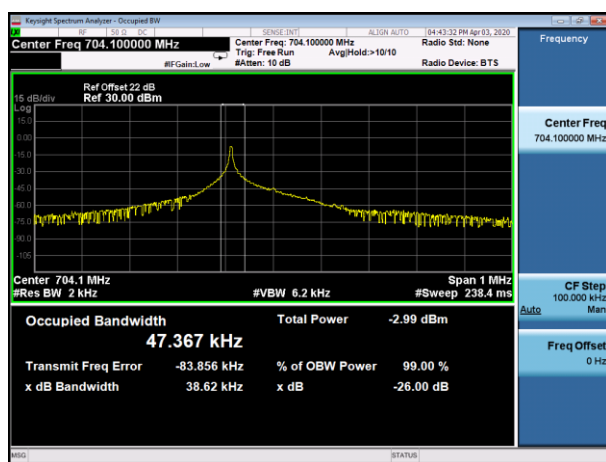
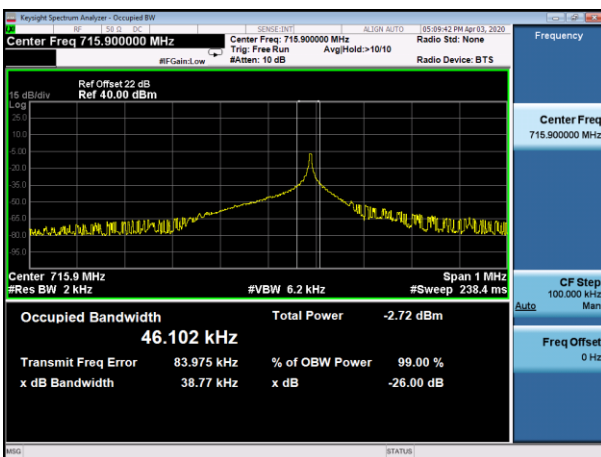
Highest channel



NB-IoT Band 17

Tone 3.75kHz BPSK Modulation

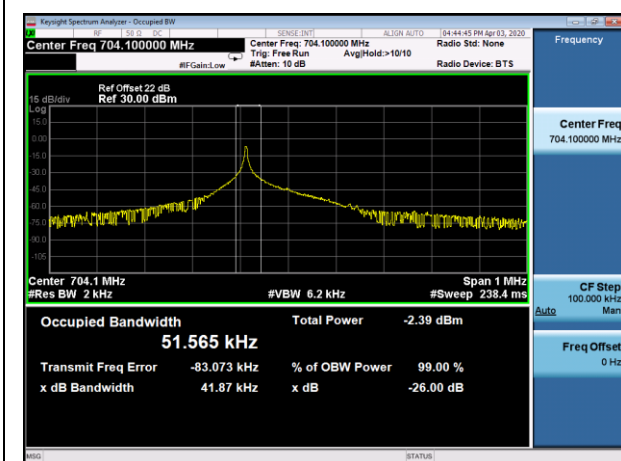
Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	47.367	45.285	46.102
-26 dBc bandwidth (kHz)	38.62	37.93	38.77

Lowest channel**Middle channel****Highest channel**

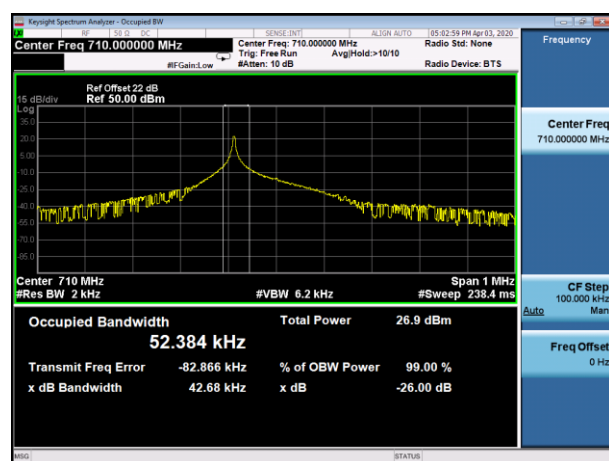
Tone 3.75kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	51.565	52.384	52.252
-26 dBc bandwidth (kHz)	41.87	42.68	42.61

Lowest channel



Middle channel



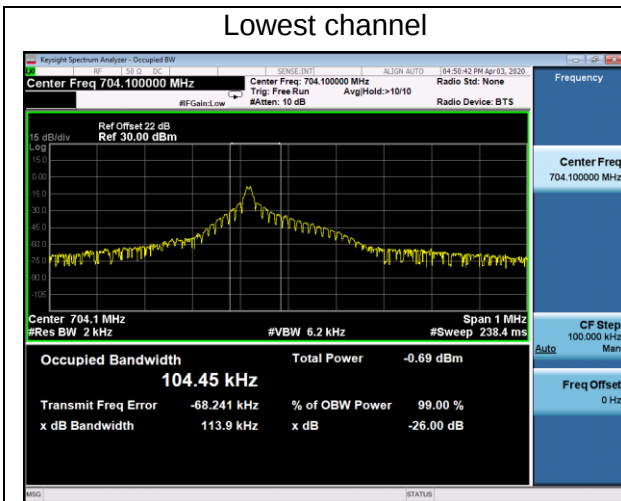
Highest channel



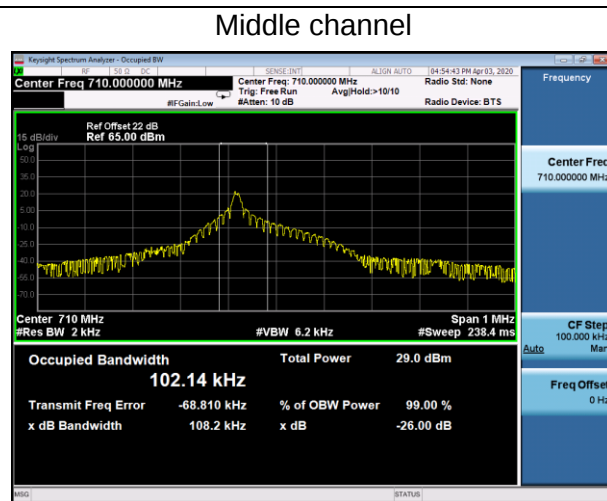
Tone 15kHz BPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	104.45	102.14	100.28
-26 dBc bandwidth (kHz)	113.9	108.2	113.2

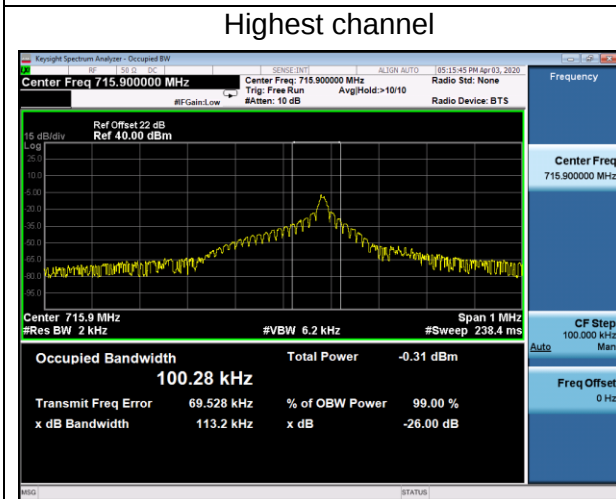
Lowest channel



Middle channel



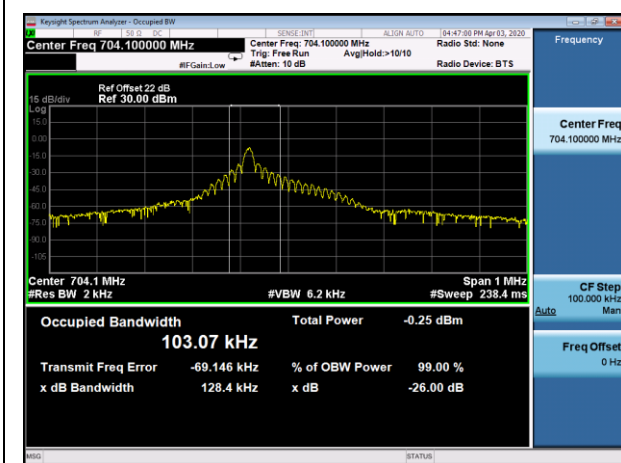
Highest channel



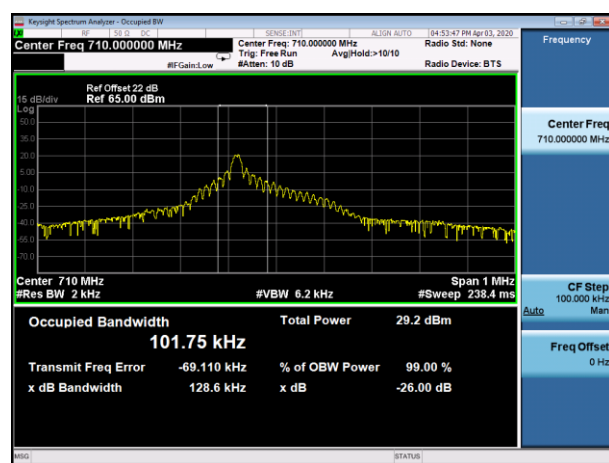
Tone 15kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	103.07	101.75	99.727
-26 dBc bandwidth (kHz)	128.4	128.6	116.4

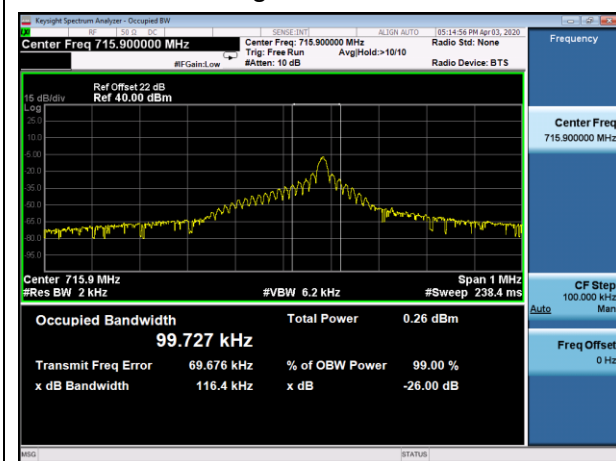
Lowest channel



Middle channel



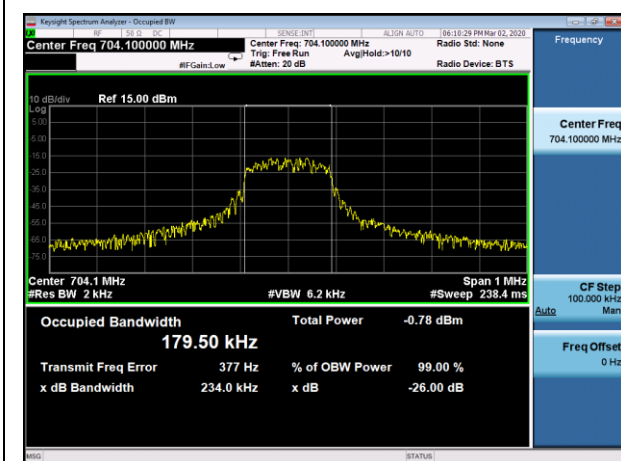
Highest channel



12 Tones 15kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	179.50	179.55	178.62
-26 dBc bandwidth (kHz)	234.0	235.2	234.0

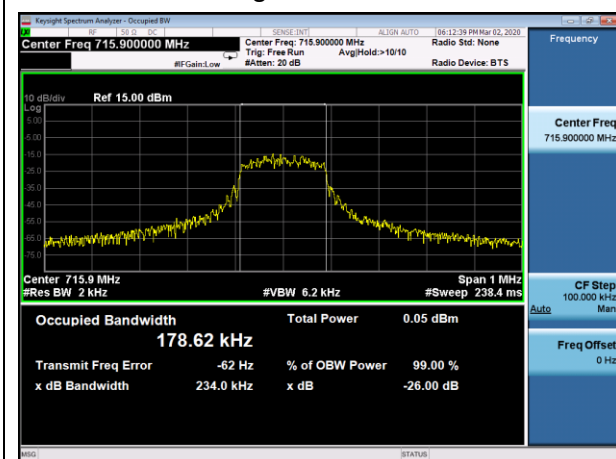
Lowest channel



Middle channel



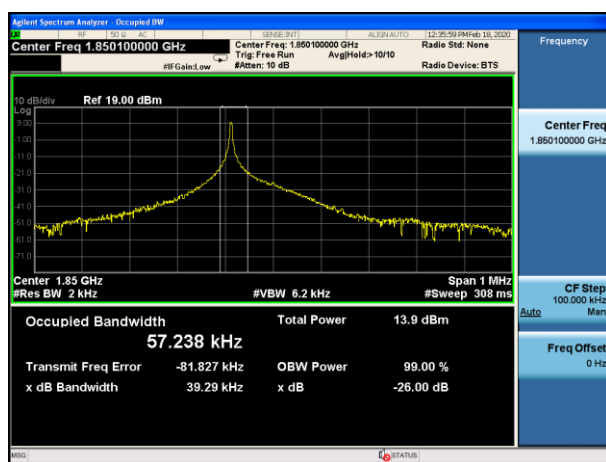
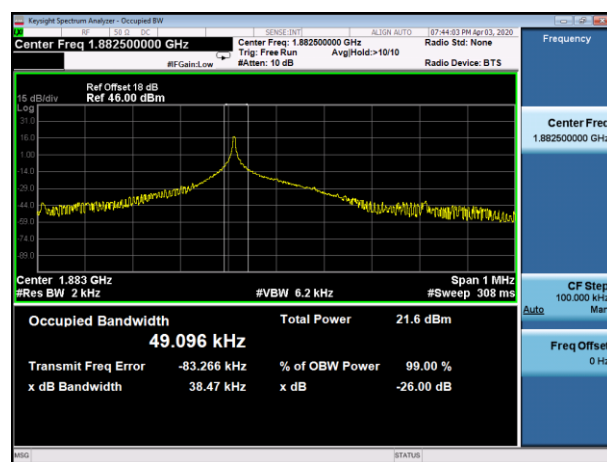
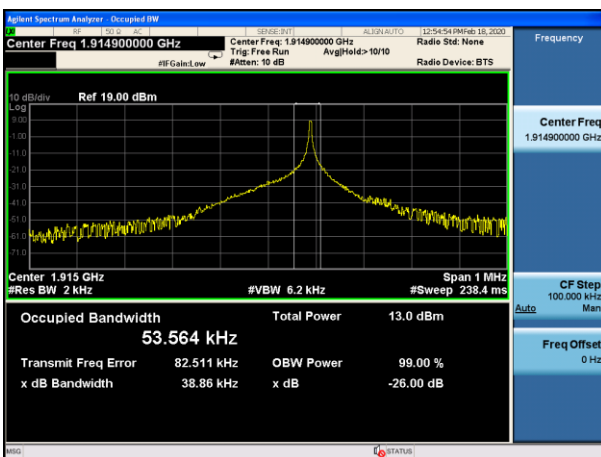
Highest channel



NB IoT Band 25

Tone 3.75kHz BPSK Modulation

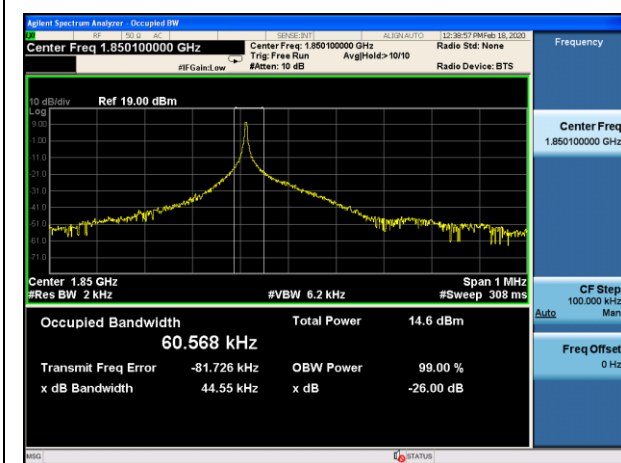
Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	57.238	49.096	53.564
-26 dBc bandwidth (kHz)	39.29	38.47	38.86

Lowest channel**Middle channel****Highest channel**

Tone 3.75kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	60.568	55.259	62.003
-26 dBc bandwidth (kHz)	44.55	42.42	45.40

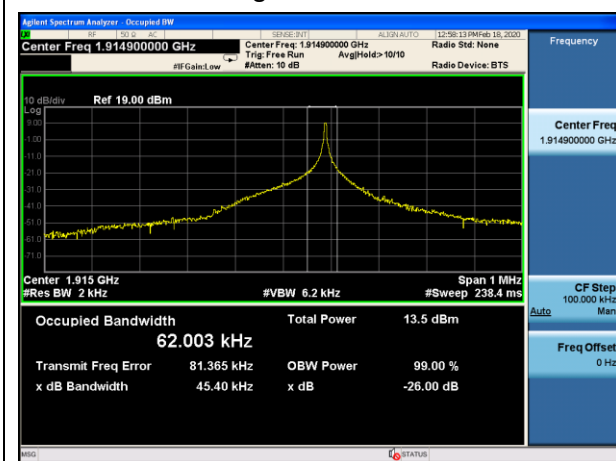
Lowest channel



Middle channel



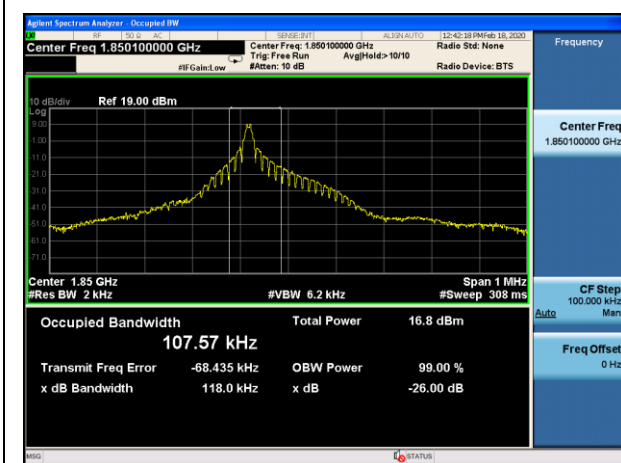
Highest channel



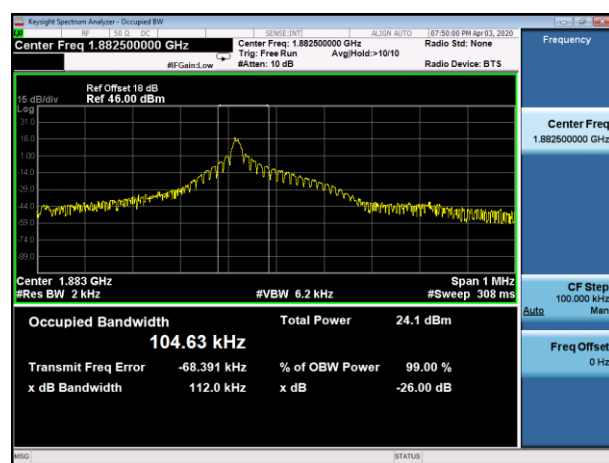
Tone 15kHz BPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	107.57	104.63	107.24
-26 dBc bandwidth (kHz)	118.0	112.0	114.8

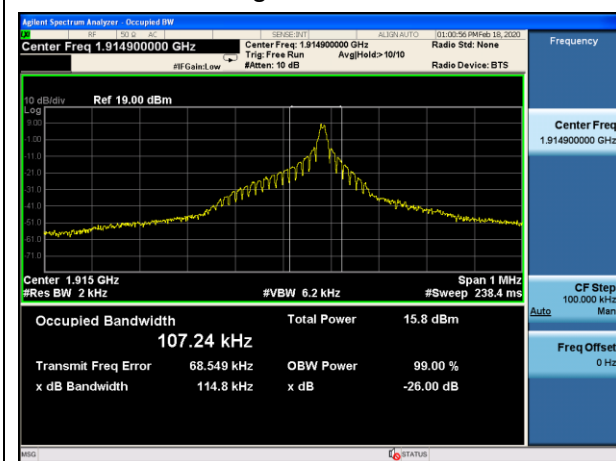
Lowest channel



Middle channel



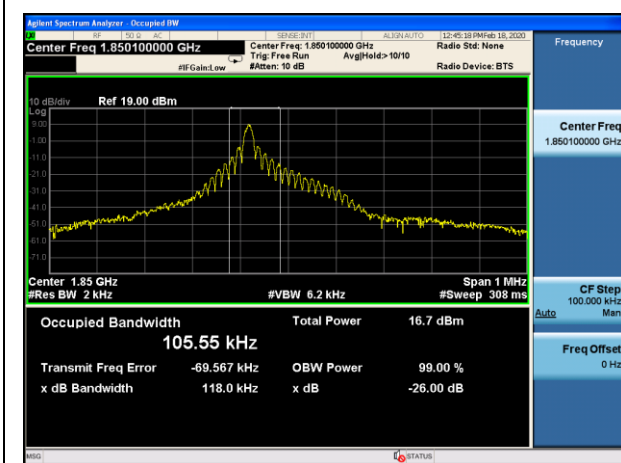
Highest channel



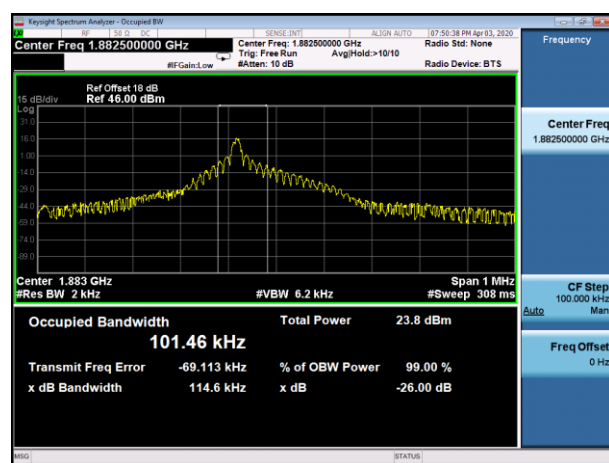
Tone 15kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	105.55	101.46	102.92
-26 dBc bandwidth (kHz)	118.0	114.6	116.4

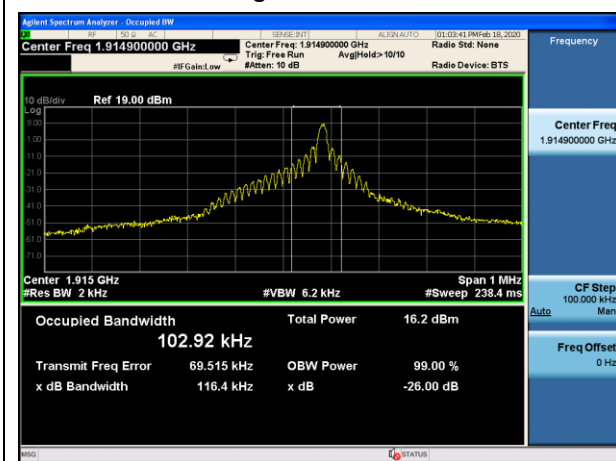
Lowest channel



Middle channel



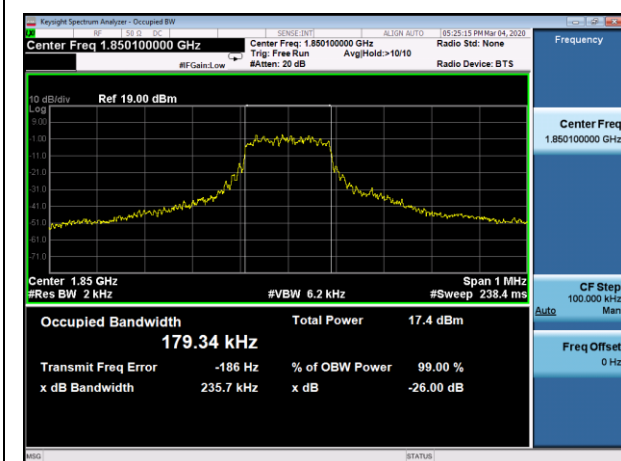
Highest channel



12 Tones 15kHz QPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	179.34	179.58	178.65
-26 dBc bandwidth (kHz)	235.7	233.9	234.0

Lowest channel



Middle channel



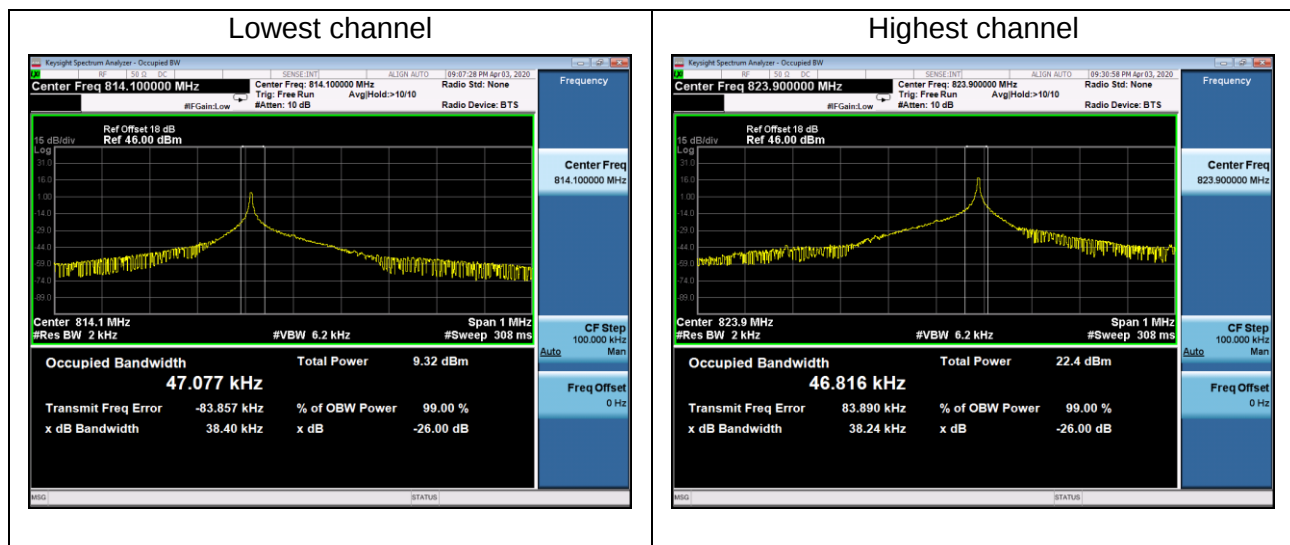
Highest channel



NB-IoT Band 26 814-824MHz

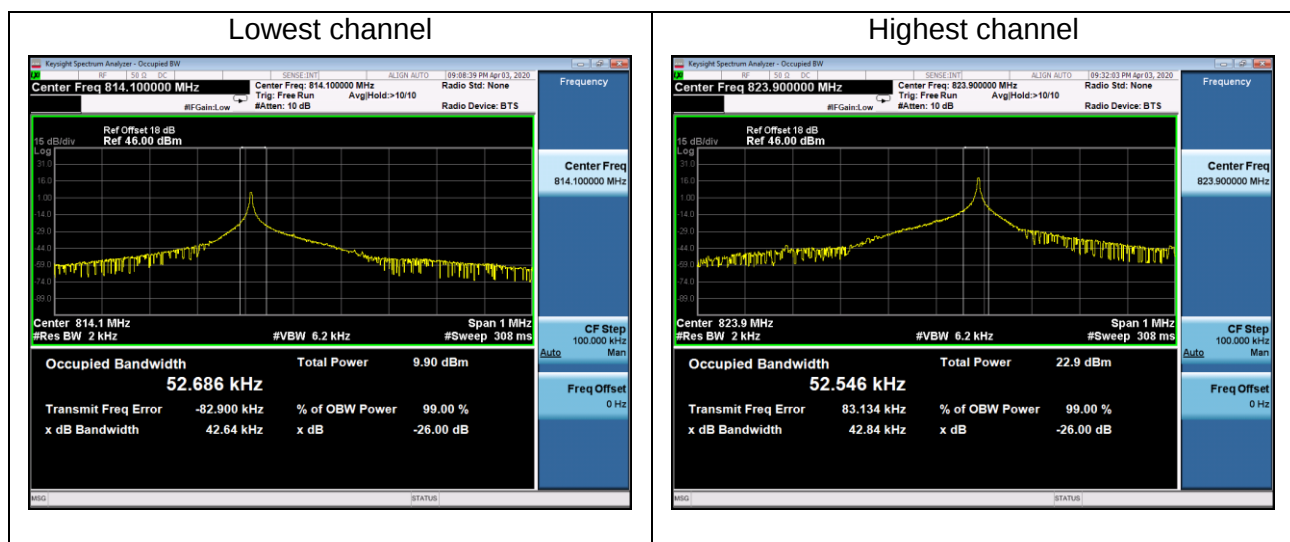
Tone 3.75kHz BPSK Modulation

Channel	Lowest	Highest
99% Occupied bandwidth (kHz)	47.077	46.816
-26 dBc bandwidth (kHz)	38.40	38.24



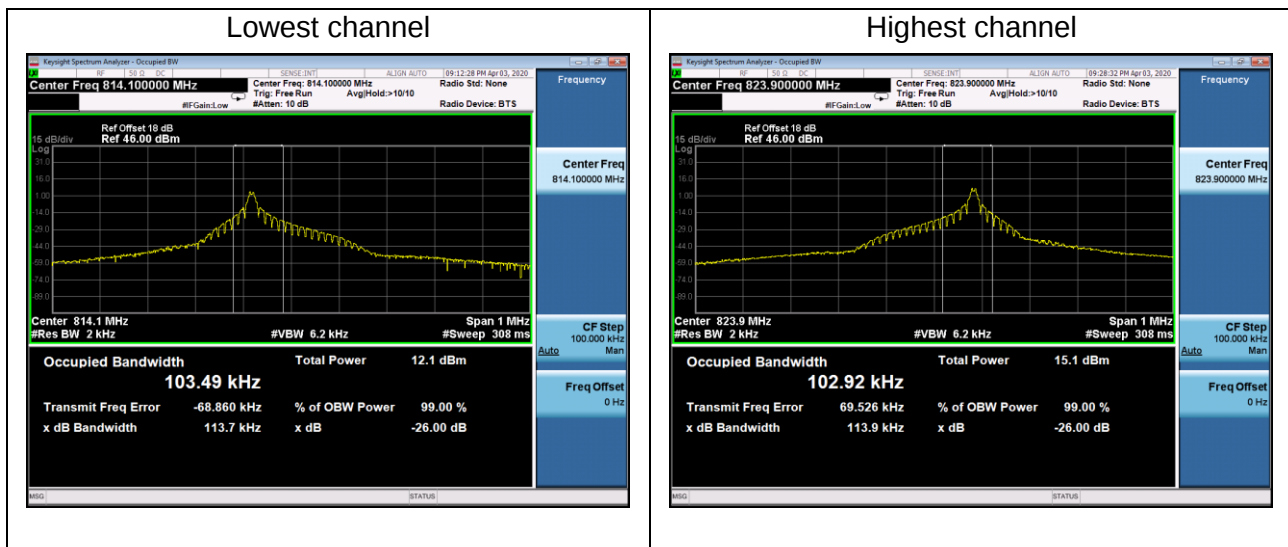
Tone 3.75kHz QPSK Modulation

Channel	Lowest	Highest
99% Occupied bandwidth (kHz)	52.686	52.546
-26 dBc bandwidth (kHz)	42.64	42.84



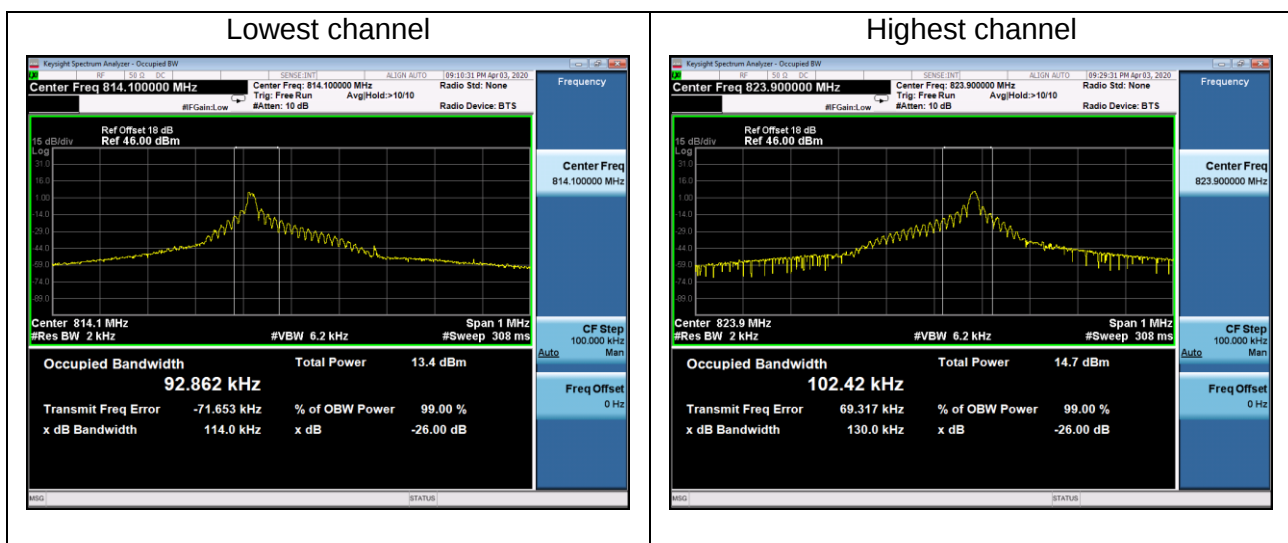
Tone 15kHz BPSK Modulation

Channel	Lowest	Highest
99% Occupied bandwidth (kHz)	103.49	102.92
-26 dBc bandwidth (kHz)	113.7	113.9



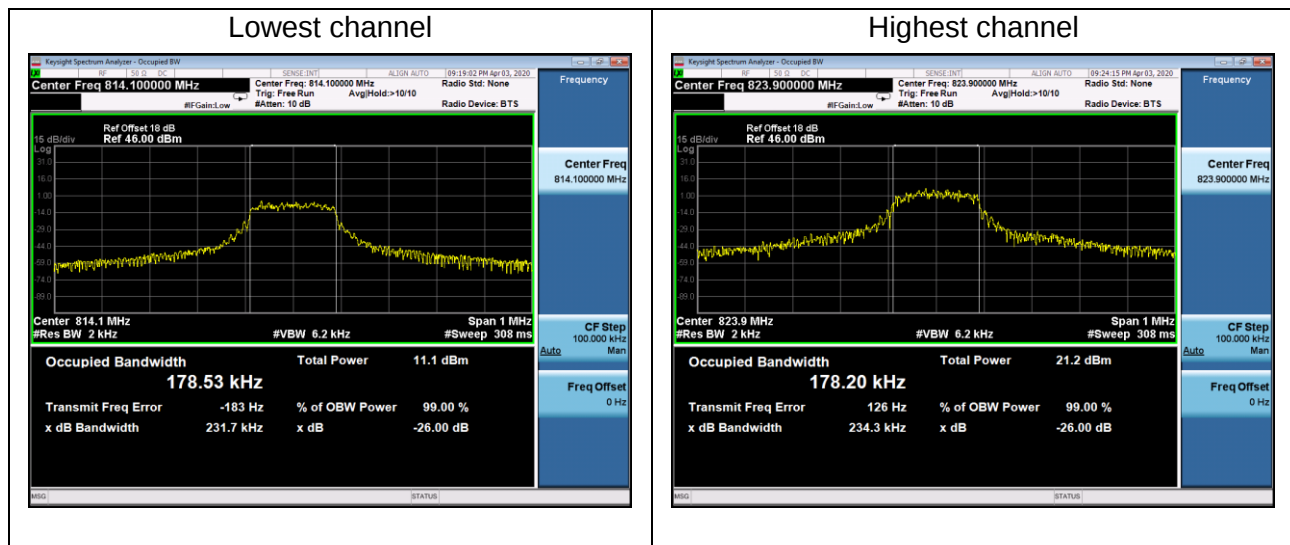
Tone 15kHz QPSK Modulation

Channel	Lowest	Highest
99% Occupied bandwidth (kHz)	92.862	102.42
-26 dBc bandwidth (kHz)	114.0	130.0



12 Tones 15kHz QPSK Modulation

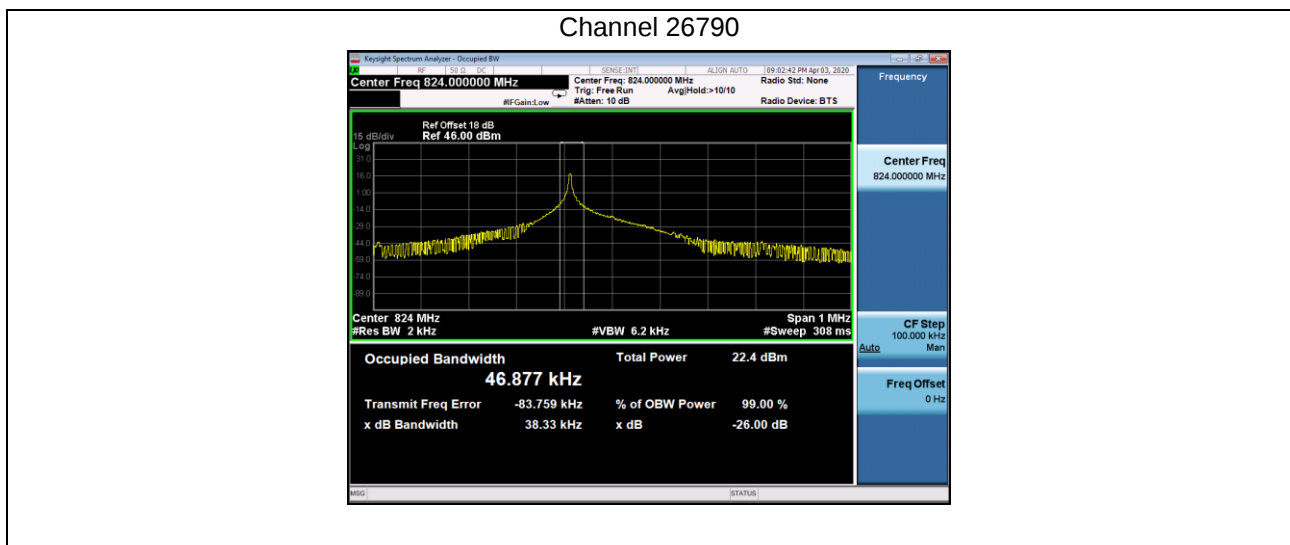
Channel	Lowest	Highest
99% Occupied bandwidth (kHz)	178.53	178.20
-26 dBc bandwidth (kHz)	231.7	234.3



NB-IoT Band 26 824MHz

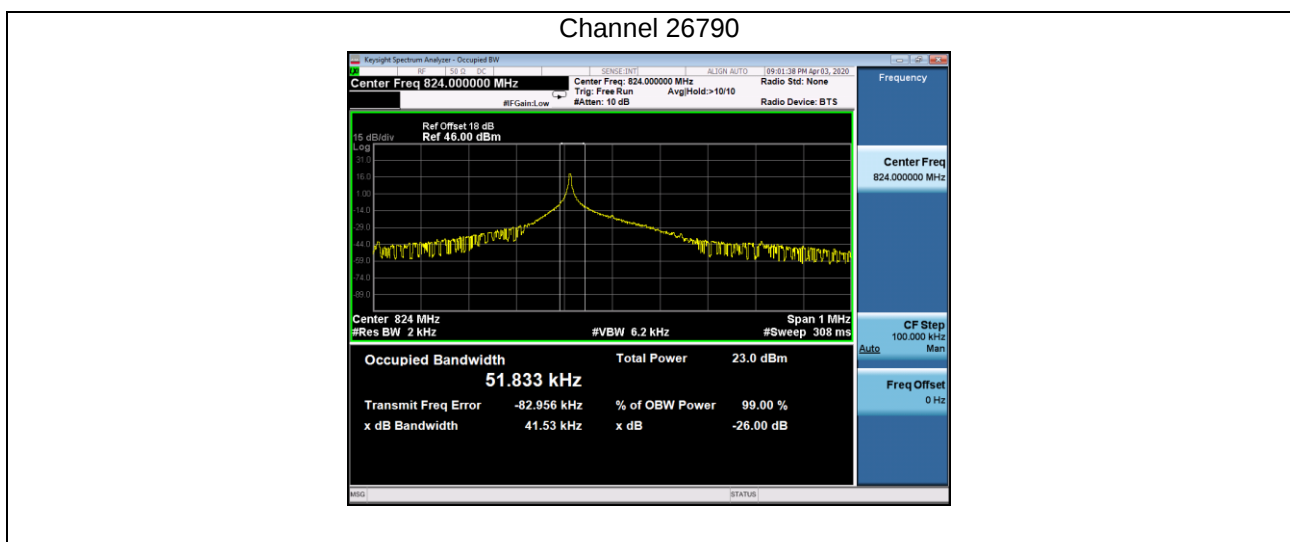
Tone 3.75kHz BPSK Modulation

Channel	26790
99% Occupied bandwidth (kHz)	46.877
-26 dBc bandwidth (kHz)	38.33



Tone 3.75kHz QPSK Modulation

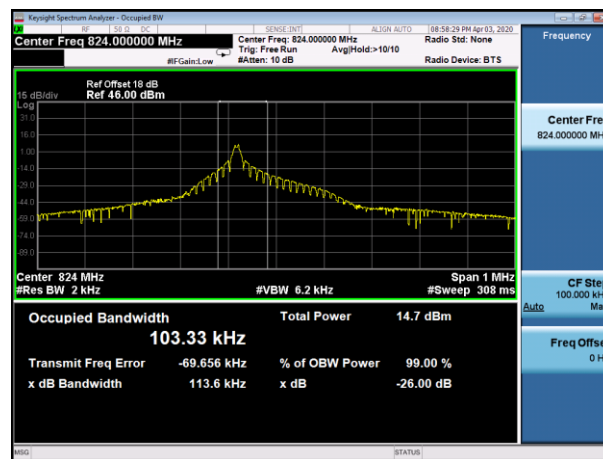
Channel	26790
99% Occupied bandwidth (kHz)	51.833
-26 dBc bandwidth (kHz)	41.53



Tone 15kHz BPSK Modulation

Channel	26790
99% Occupied bandwidth (kHz)	103.33
-26 dBc bandwidth (kHz)	113.6

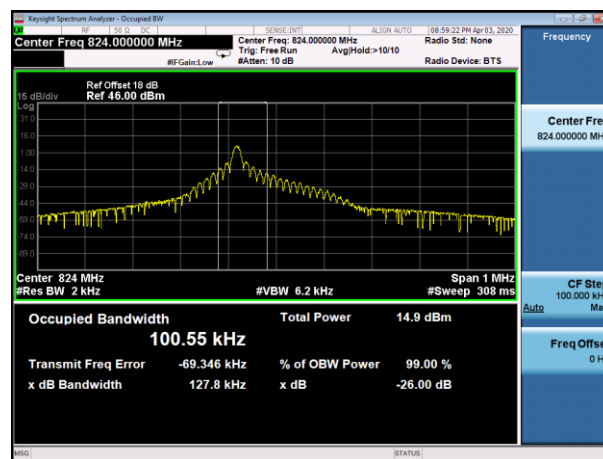
Channel 26790



Tone 15kHz QPSK Modulation

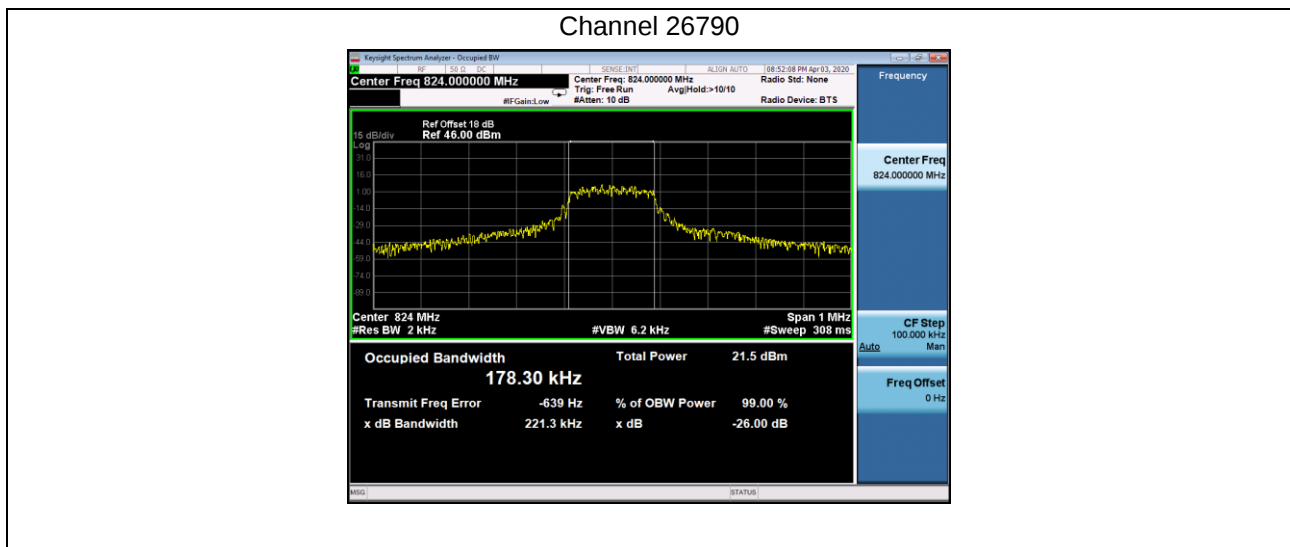
Channel	26790
99% Occupied bandwidth (kHz)	100.55
-26 dBc bandwidth (kHz)	127.8

Channel 26790



12 Tones 15kHz QPSK Modulation

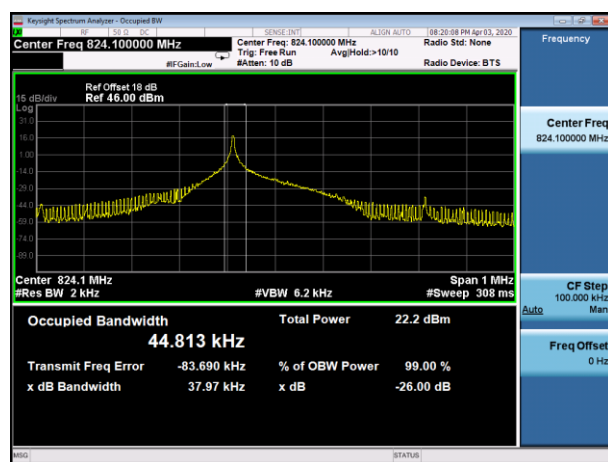
Channel	26790
99% Occupied bandwidth (kHz)	178.30
-26 dBc bandwidth (kHz)	221.3



NB IoT Band 26 824-849MHz

Tone 3.75kHz BPSK Modulation

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	44.813	45.708	47.957
-26 dBc bandwidth (kHz)	37.97	38.29	38.64

Lowest channel**Middle channel****Highest channel**