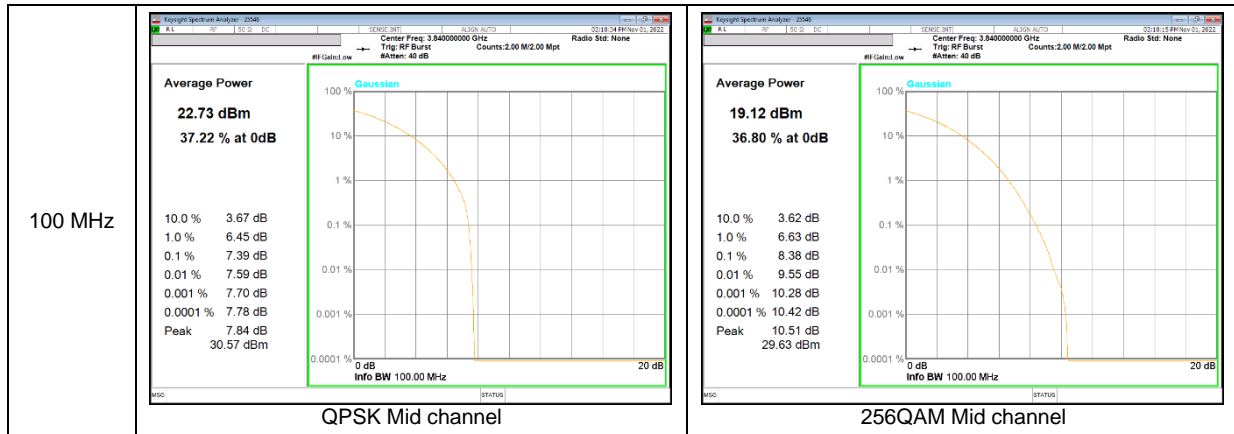
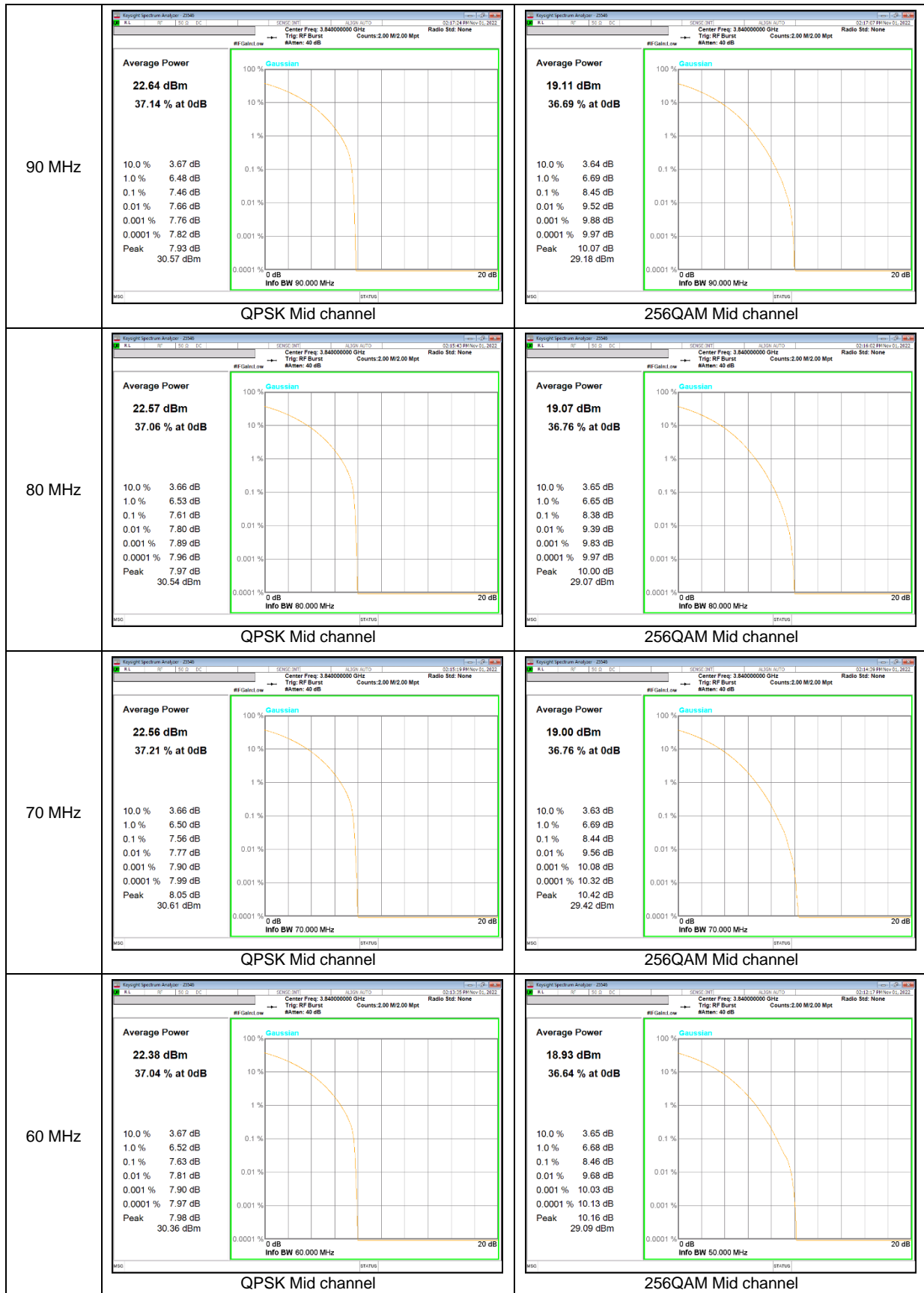
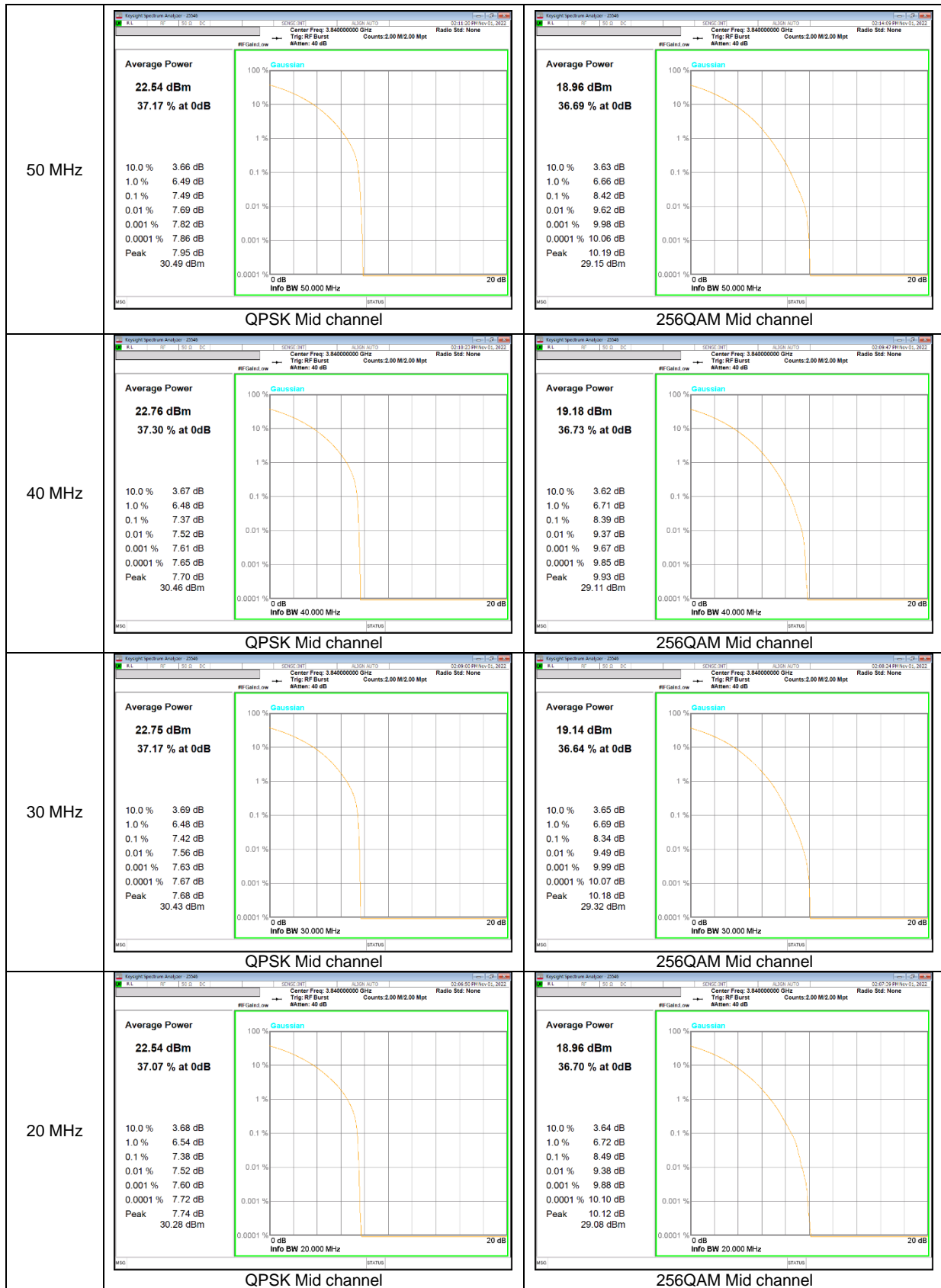


NR Band n77(PC2) CP-OFDM (3700-3980 MHz)







9. LIMITS AND CONDUCTED RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at middle channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v03r01)

RESULTS

See the following pages.

- GSM

Band	Modulation	f [MHz]	99% BW (kHz)	-26dB BW (kHz)
850	GPRS	836.6	244.05	307.1
	EGPRS		243.61	310.9
1900	GPRS	1880.0	244.62	313.5
	EGPRS		241.70	301.0

- WCDMA

Band	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
B5	Rel.99	836.6	4.136	4.671
	HSDPA		4.137	4.662
B2	Rel.99	1880.0	4.153	4.702
	HSDPA		4.160	4.674

- LTE Band 2

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B2	20M	QPSK	1880.0	17.919	19.22
		16QAM		17.914	19.23
	15M	QPSK		13.407	14.48
		16QAM		13.427	14.55
	10M	QPSK		8.965	9.74
		16QAM		8.961	9.65
	5M	QPSK		4.492	4.92
		16QAM		4.493	4.93
	3M	QPSK		2.694	2.98
		16QAM		2.688	2.99
	1.4M	QPSK		1.080	1.22
		16QAM		1.084	1.23

- LTE Band 5

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B5	10M	QPSK	836.5	8.968	9.71
		16QAM		8.926	9.73
	5M	QPSK		4.486	4.90
		16QAM		4.482	4.92
	3M	QPSK		2.692	2.98
		16QAM		2.691	3.00
	1.4M	QPSK		1.080	1.22
		16QAM		1.081	1.23

- LTE Band 7

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B7	20M	QPSK	2535.0	17.911	19.32
		16QAM		17.892	19.42
	15M	QPSK		13.433	14.39
		16QAM		13.428	14.56
	10M	QPSK		8.968	9.70
		16QAM		8.964	9.78
	5M	QPSK		4.493	4.95
		16QAM		4.490	4.96

- LTE Band 12

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B12	10M	QPSK	707.5	8.943	9.72
		16QAM		8.901	9.65
	5M	QPSK		4.483	4.90
		16QAM		4.480	4.92
	3M	QPSK		2.691	2.95
		16QAM		2.689	2.99
	1.4M	QPSK		1.093	1.24
		16QAM		1.082	1.23

- LTE Band 13

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B13	10M	QPSK	782.0	8.939	9.65
		16QAM		8.937	9.66
	5M	QPSK		4.508	4.91
		16QAM		4.498	4.97

- LTE Band 66

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B66	20M	QPSK	1745.0	17.884	19.10
		16QAM		17.890	19.42
	15M	QPSK		13.423	14.55
		16QAM		13.417	14.43
	10M	QPSK		8.992	9.72
		16QAM		8.958	9.67
	5M	QPSK		4.488	4.92
		16QAM		4.484	4.91
	3M	QPSK		2.692	2.95
		16QAM		2.689	3.00
	1.4M	QPSK		1.091	1.23
		16QAM		1.081	1.23

- NR Band n2 CP-OFDM

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n2	20M	QPSK	1880.0	18.951	19.76
		16QAM		18.936	19.87
	15M	QPSK		14.105	14.84
		16QAM		14.138	14.82
	10M	QPSK		9.294	9.99
		16QAM		9.318	9.94
	5M	QPSK		4.478	4.93
		16QAM		4.478	4.93

- NR Band n5 CP-OFDM

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n5	20M	QPSK	836.5	18.867	19.73
		16QAM		18.913	19.71
	15M	QPSK		14.078	14.78
		16QAM		14.119	14.81
	10M	QPSK		9.296	9.86
		16QAM		9.278	9.95
	5M	QPSK		4.472	4.94
		16QAM		4.481	4.90

- NR Band n66 CP-OFDM

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n66	40M	QPSK	1745.0	38.663	39.79
		16QAM		38.588	39.80
	30M	QPSK		28.576	29.54
		16QAM		28.556	29.57
	20M	QPSK		18.930	19.81
		16QAM		18.920	19.95
	15M	QPSK		14.096	14.84
		16QAM		14.113	14.95
	10M	QPSK		9.286	9.93
		16QAM		9.301	9.91
	5M	QPSK		4.478	4.86
		16QAM		4.477	4.89

- NR Band n77(PC2) CP-OFDM (3450-3550 MHz)

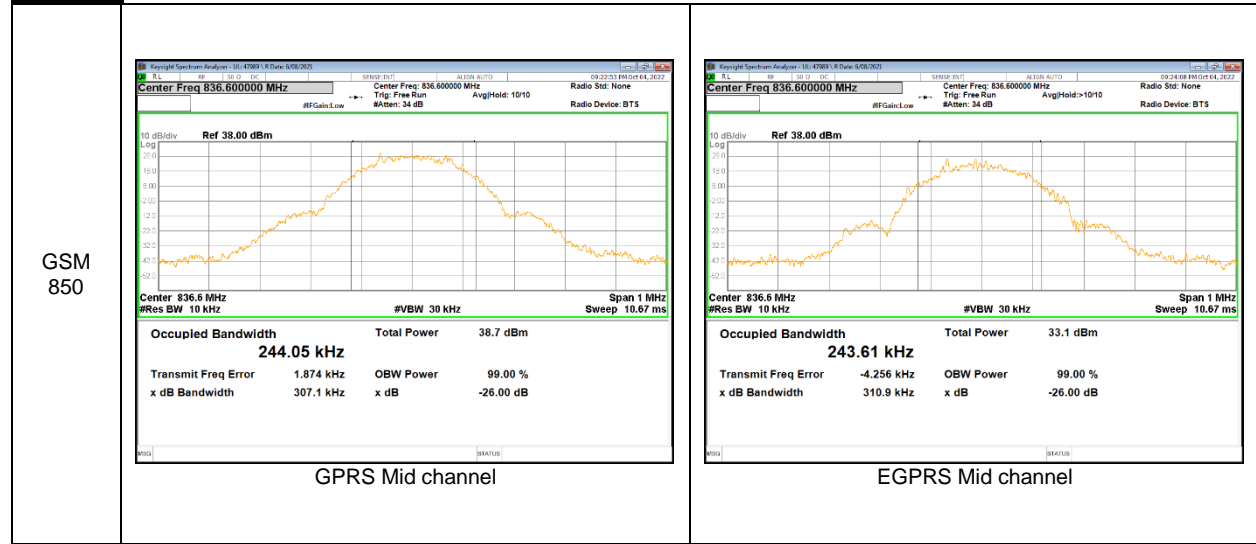
Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n77(PC2)	100M	QPSK	3500.0	97.221	100.5
		16QAM		97.419	100.6
	90M	QPSK		87.426	90.18
		16QAM		87.219	90.20
	80M	QPSK		77.327	79.95
		16QAM		77.447	79.91
	70M	QPSK		67.311	69.53
		16QAM		67.431	69.81
	60M	QPSK		57.868	59.69
		16QAM		57.926	59.71
	50M	QPSK		47.482	48.98
		16QAM		47.208	49.10
	40M	QPSK		37.837	39.11
		16QAM		37.685	39.07
	30M	QPSK		27.795	28.92
		16QAM		27.898	29.25
	20M	QPSK		18.233	19.20
		16QAM		18.196	19.11

- NR Band n77(PC2) CP-OFDM (3700-3980 MHz)

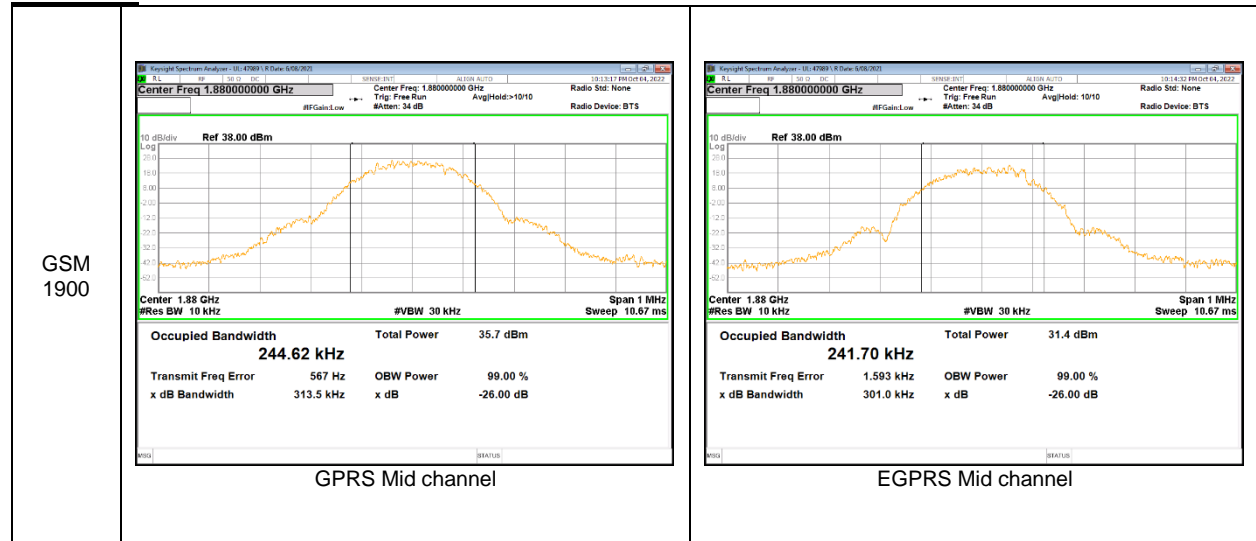
Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n77(PC2)	100M	QPSK	3840.0	97.451	100.4
		16QAM		97.543	100.6
	90M	QPSK		87.345	90.29
		16QAM		87.601	90.15
	80M	QPSK		77.441	79.87
		16QAM		77.533	79.89
	70M	QPSK		67.512	69.76
		16QAM		67.363	69.52
	60M	QPSK		57.604	59.69
		16QAM		57.774	59.65
	50M	QPSK		47.400	49.12
		16QAM		47.504	48.96
	40M	QPSK		37.828	39.17
		16QAM		37.765	39.13
	30M	QPSK		27.777	28.95
		16QAM		27.858	28.99
	20M	QPSK		18.251	19.60
		16QAM		18.192	19.11

9.1.1. OCCUPIED BANDWIDTH RESULTS

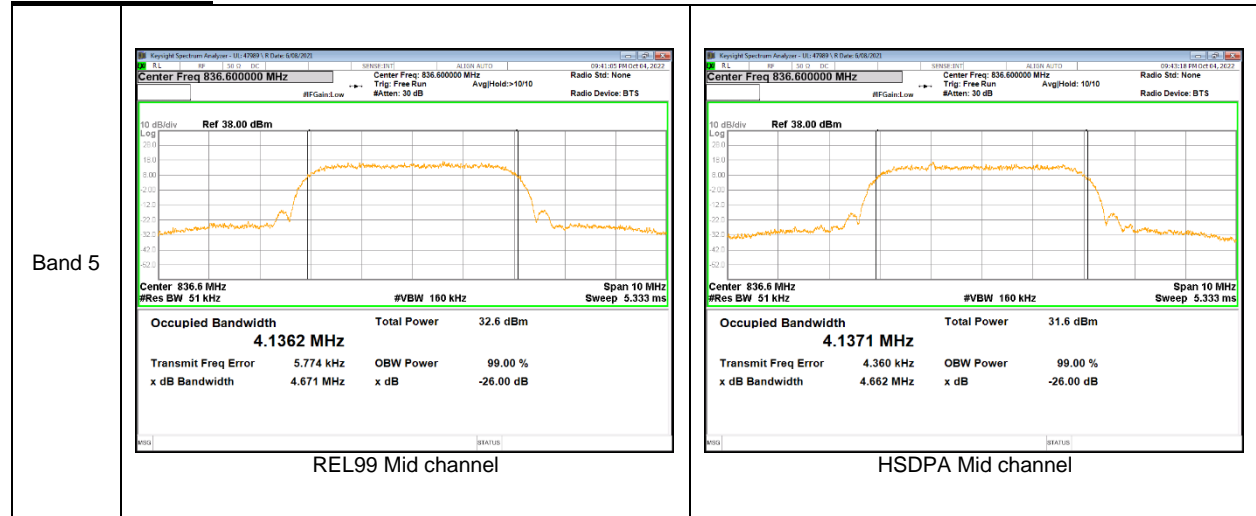
GSM 850



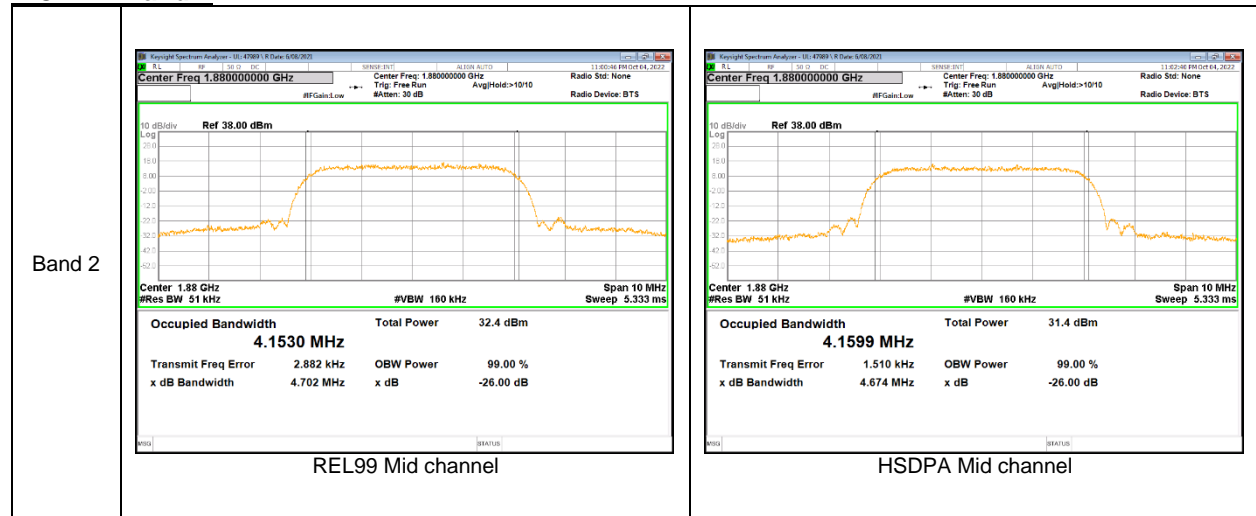
GSM 1900



WCDMA Band 5

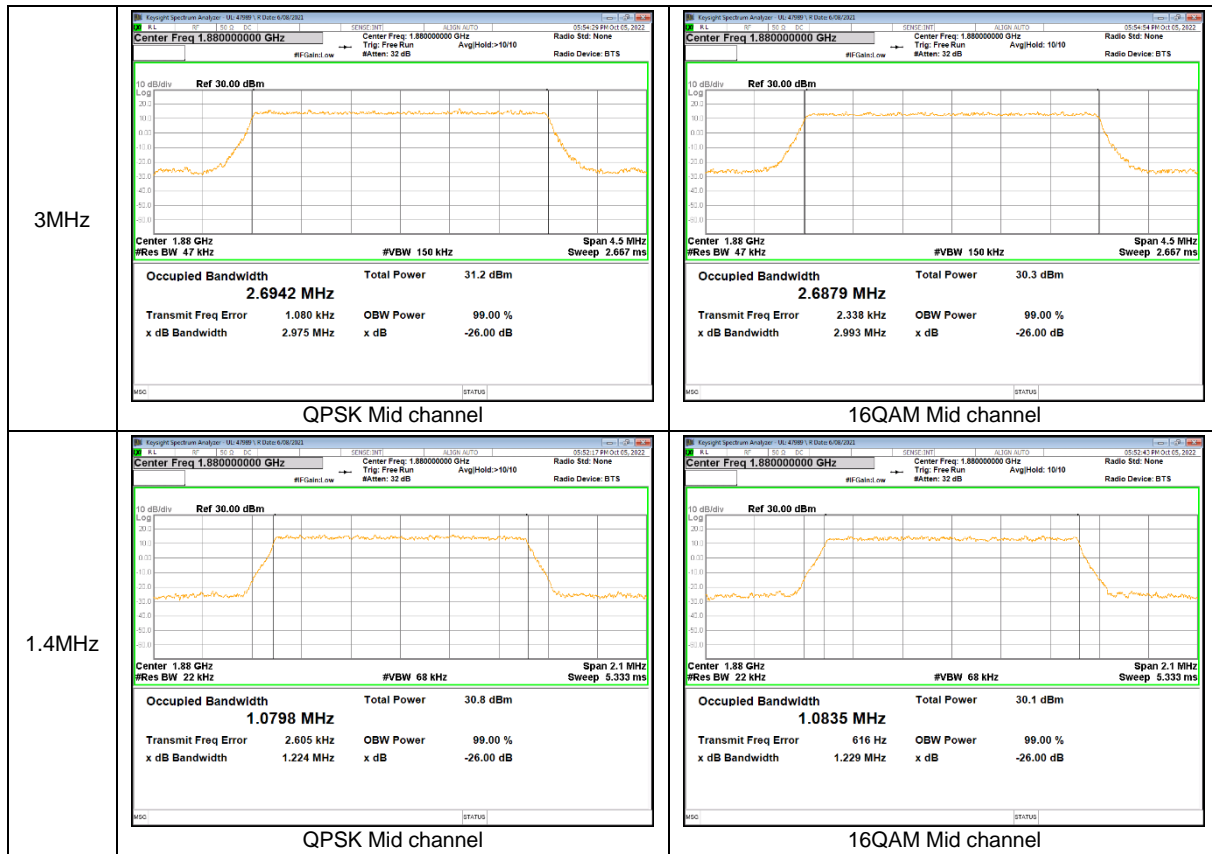


WCDMA Band 2



LTE Band 2





LTE Band 5



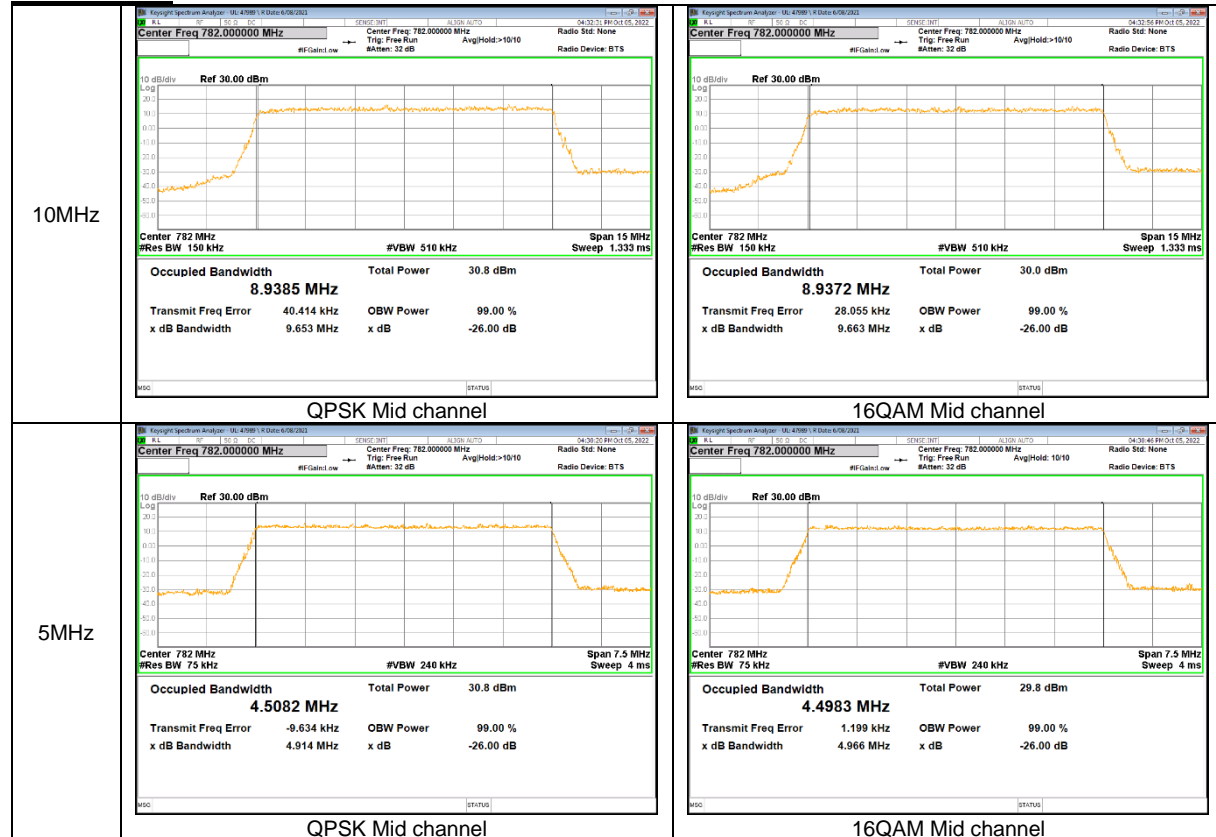
LTE Band 7



LTE Band 12



LTE Band 13



LTE Band 66





NR Band n2 CP-OFDM



NR Band n5 CP-OFDM



NR Band n66 CP-OFDM



