











NR Band n41 (PC2) 1 RB (Worst Case) (ANT B)



8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §27.53

LIMITS

§27.53:

(h) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

(m) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold Mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz
(Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace Mode = average;

NOTE1

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS

See the following pages.

8.5.1. OUT OF BAND EMISSIONS RESULT

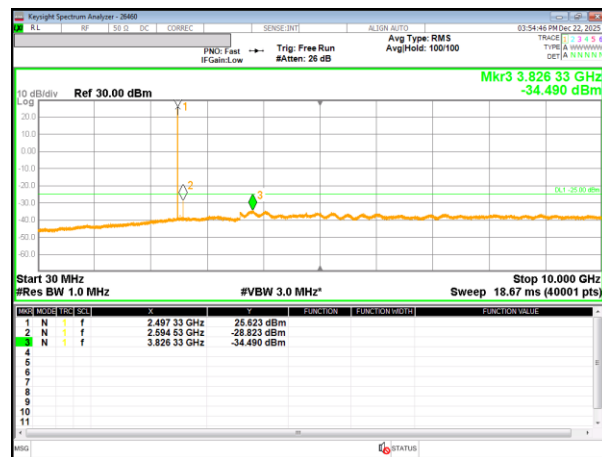
LTE Band 41C (UL CA) (ANT F)

20+20 MHz QPSK



NR Band n41 (PC2) (ANT B)

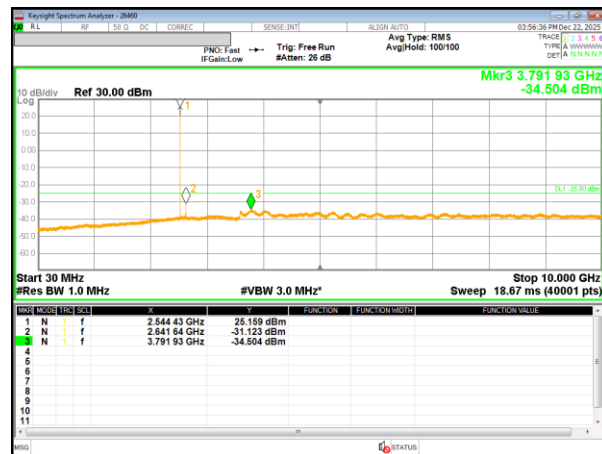
100 MHz QPSK DFT-s_OFDM



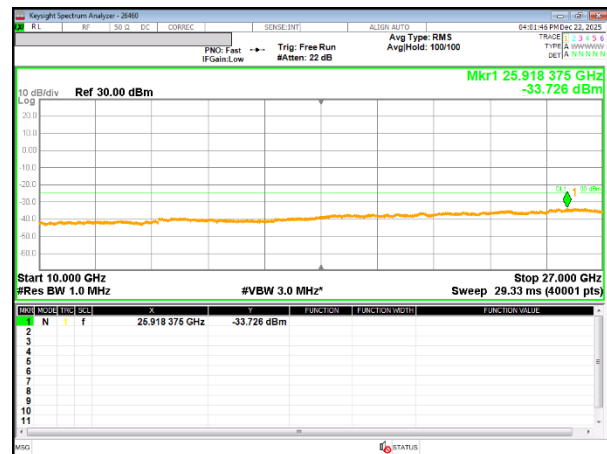
Low channel



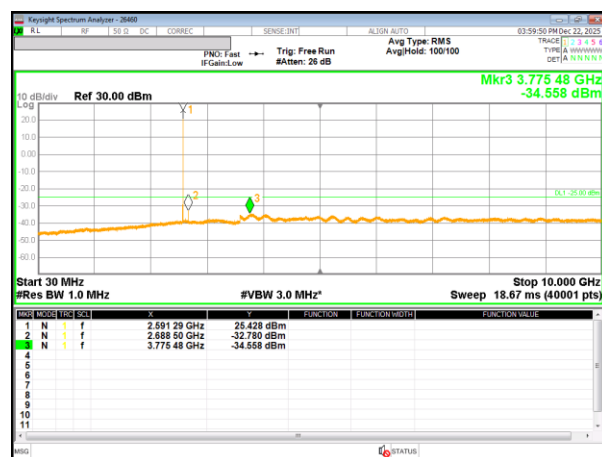
Low channel



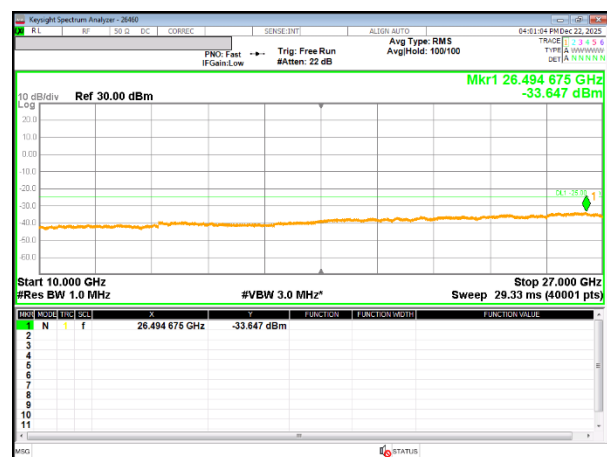
Mid channel



Mid channel



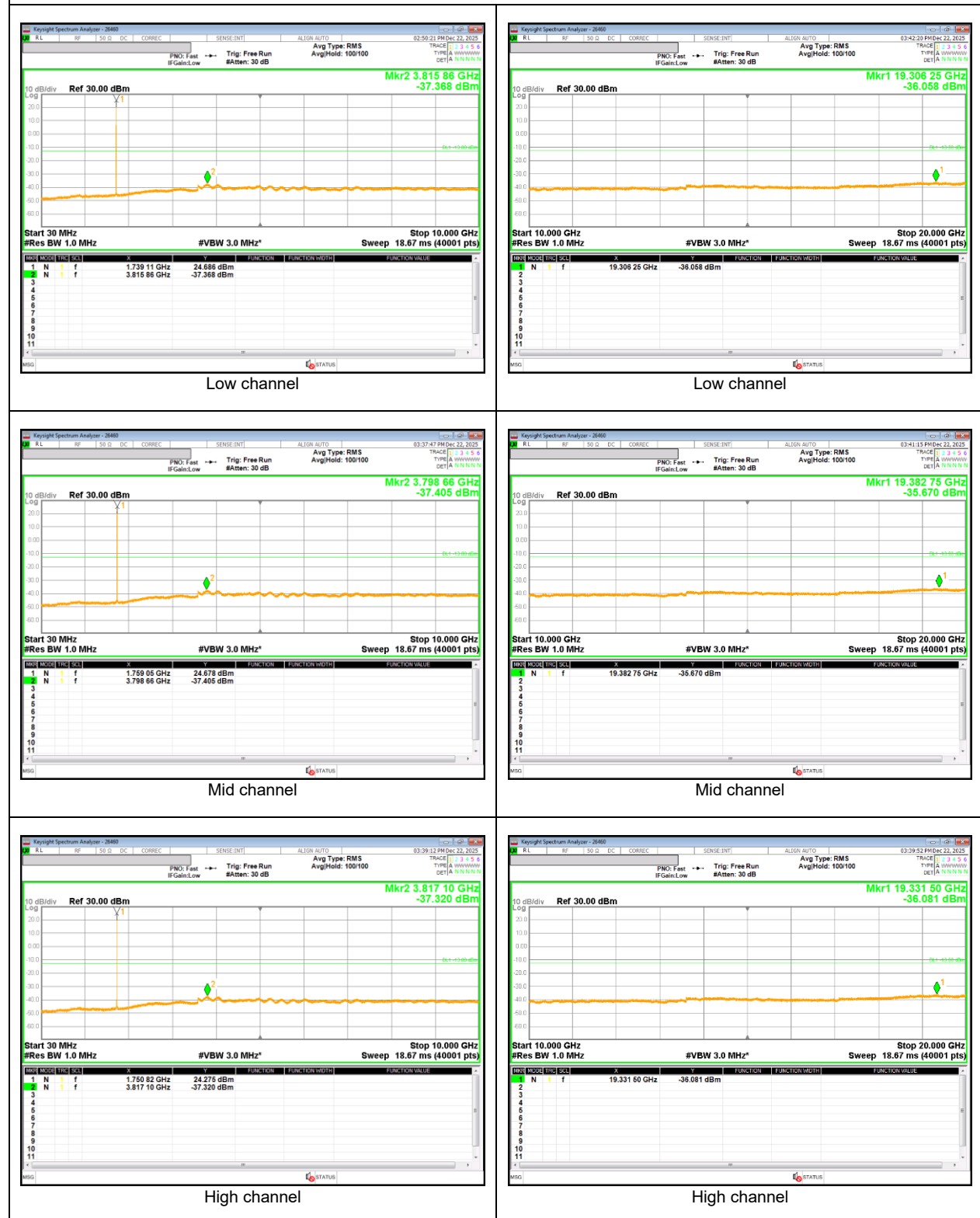
High channel



High channel

NR Band n66 (ANT A)

30 MHz QPSK DFT-s_OFDM



8.6. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §27.54

LIMITS

Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

NOTE

Test were performed each lowest or highest frequency on the modulation condition of more wide bandwidth.(Please refer to OBW results)

RESULTS

See the following pages.

8.6.1. FREQUENCY STABILITY RESULT

NR Band n41 (PC2, Lowest Frequency: 16QAM / Highest Frequency: 16QAM)

Test Date	2025-12-15
Test Engineer	22933

Normal (20C)		2496	2690	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2496.6805	2689.3183		
Extreme (50C)		2496.6805	2689.3183	13.2	0.005
Extreme (40C)		2496.6805	2689.3183	14.2	0.005
Extreme (30C)		2496.6805	2689.3183	15.1	0.006
Extreme (10C)		2496.6805	2689.3183	15.3	0.006
Extreme (0C)		2496.6805	2689.3183	12.6	0.005
Extreme (-10C)		2496.6805	2689.3183	13.2	0.005
Extreme (-20C)		2496.6805	2689.3183	15.1	0.006
Extreme (-30C)		2496.6805	2689.3183	16.1	0.006
20C	15%	2496.6805	2689.3183	15.9	0.006
	-15%	2496.6805	2689.3183	15.7	0.006
	End Point	2496.6805	2689.3183	15.1	0.006

NR Band n66 (Lowest Frequency: QPSK / Highest Frequency: QPSK)

Test Date	2025-12-15
Test Engineer	22933

Limit		1710	1780	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1712.5000	1777.5000		
Extreme (50C)		1712.5000	1777.5000	5.1	0.003
Extreme (40C)		1712.5000	1777.5000	4.9	0.003
Extreme (30C)		1712.5000	1777.5000	4.9	0.003
Extreme (10C)		1712.5000	1777.5000	5.9	0.003
Extreme (0C)		1712.5000	1777.5000	4.1	0.002
Extreme (-10C)		1712.5000	1777.5000	7.0	0.004
Extreme (-20C)		1712.5000	1777.5000	6.6	0.004
Extreme (-30C)		1712.5000	1777.5000	7.0	0.004
20C	15%	1712.5000	1777.5000	6.1	0.003
	-15%	1712.5000	1777.5000	5.7	0.003
	End Point	1712.5000	1777.5000	5.9	0.003

9. RADIATED RESULTS

9.1. RADIATED POWER (EIRP)

RULE PART(S)

FCC: §2.1046, §27.50

LIMITS

§27.50:

(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

(h) The following power limits shall apply in the BRS and EBS:

(2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.17; ESU40 setting reference to 971168 D01 v03r01

For radiated output power measurement with a ESU40:

- a) Set the RBW $\geq 1\%$ to 5% of the OBW;
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span $\geq 2 \times$ to $3 \times$ the OBW.;
- d) Sweep time = auto couple or Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.;
- e) Detector = rms;
- f) Ensure that the number of measurement points $\geq 2 \times \text{span/RBW}$;
- g) Trace mode = average;
- h) If the EUT can be configured to transmit continuously, then set the trigger to free run.
- i) If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
- j) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.
- k) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

NOTE1

LTE, 5G NR : The OBW value corresponding to the total channel bandwidth is the OBW of FullRB. Measurements were made with a 1RB configuration (Worst case) over the entire channel bandwidth, and FRB configurations were also reported for the worst BW.

TEST RESULTS

See the following pages.

9.1.1. EIRP RESULT

LTE Band 41C (UL CA) (ANT B)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
40	QPSK	2515.90	16.47	H	5.22	10.03	21.27	0.134	33.00	-11.73	1/99	1/0
		2593.00	17.56	H	5.30	9.90	22.16	0.164	33.00	-10.84	1/99	1/0
		2670.10	17.68	H	5.37	9.88	22.18	0.165	33.00	-10.82	1/99	1/0
	16-QAM	2515.90	15.97	H	5.22	10.03	20.77	0.119	33.00	-12.23	1/99	1/0
		2593.00	16.72	H	5.30	9.90	21.32	0.136	33.00	-11.68	1/99	1/0
		2670.10	16.91	H	5.37	9.88	21.41	0.138	33.00	-11.59	1/99	1/0

LTE Band 41C (UL CA) (ANT F)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
40	QPSK	2515.90	16.49	H	5.22	10.03	21.29	0.135	33.00	-11.71	1/99	1/0
		2593.00	17.24	H	5.30	9.90	21.84	0.153	33.00	-11.16	1/99	1/0
		2670.10	17.87	H	5.37	9.88	22.37	0.173	33.00	-10.63	1/99	1/0
	16-QAM	2515.90	15.64	H	5.22	10.03	20.44	0.111	33.00	-12.56	1/99	1/0
		2593.00	16.35	H	5.30	9.90	20.95	0.124	33.00	-12.05	1/99	1/0
		2670.10	17.07	H	5.37	9.88	21.57	0.144	33.00	-11.43	1/99	1/0

NR Band n41 (PC2) DFT-s OFDM (ANT B)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	EIRP (W)	Limit (dBm)	Delta (dB)	RB
100	QPSK	2546.01	19.93	H	5.26	9.97	24.64	0.291	33.00	-8.36	1 / 1
		2592.99	20.44	H	5.30	9.90	25.04	0.319	33.00	-7.96	1 / 1
		2640.00	20.77	H	5.36	9.87	25.28	0.337	33.00	-7.72	1 / 1
	16-QAM	2546.01	19.12	H	5.26	9.97	23.83	0.242	33.00	-9.17	1 / 1
		2592.99	19.22	H	5.30	9.90	23.82	0.241	33.00	-9.18	1 / 1
		2640.00	19.66	H	5.36	9.87	24.17	0.261	33.00	-8.83	1 / 1
90	QPSK	2541.00	20.02	H	5.25	9.98	24.74	0.298	33.00	-8.26	1 / 1
		2592.99	20.40	H	5.30	9.90	25.00	0.316	33.00	-8.00	1 / 1
		2644.98	20.50	H	5.36	9.86	25.01	0.317	33.00	-7.99	1 / 1
	16-QAM	2541.00	19.43	H	5.25	9.98	24.15	0.260	33.00	-8.85	1 / 1
		2592.99	19.09	H	5.30	9.90	23.69	0.234	33.00	-9.31	1 / 1
		2644.98	19.33	H	5.36	9.86	23.84	0.242	33.00	-9.16	1 / 1
80	QPSK	2536.02	19.85	H	5.25	9.99	24.58	0.287	33.00	-8.42	1 / 1
		2592.99	20.34	H	5.30	9.90	24.94	0.312	33.00	-8.06	1 / 1
		2649.99	20.28	H	5.37	9.86	24.77	0.300	33.00	-8.23	1 / 1
	16-QAM	2536.02	19.21	H	5.25	9.99	23.94	0.248	33.00	-9.06	1 / 1
		2592.99	19.06	H	5.30	9.90	23.66	0.232	33.00	-9.34	1 / 108
		2649.99	19.19	H	5.37	9.86	23.68	0.233	33.00	-9.32	1 / 1
70	QPSK	2531.02	19.69	H	5.24	10.00	24.44	0.278	33.00	-8.56	1 / 1
		2592.99	20.32	H	5.30	9.90	24.92	0.310	33.00	-8.08	1 / 94
		2654.98	20.18	H	5.37	9.86	24.68	0.294	33.00	-8.32	1 / 1
	16-QAM	2531.02	19.03	H	5.24	10.00	23.78	0.239	33.00	-9.22	1 / 1
		2592.99	19.06	H	5.30	9.90	23.66	0.232	33.00	-9.34	1 / 94
		2654.98	19.13	H	5.37	9.86	23.63	0.231	33.00	-9.37	1 / 1
60	QPSK	2526.00	19.64	H	5.23	10.01	24.41	0.276	33.00	-8.59	1 / 1
		2592.99	20.29	H	5.30	9.90	24.89	0.308	33.00	-8.11	1 / 1
		2659.98	20.16	H	5.36	9.87	24.66	0.292	33.00	-8.34	1 / 1
	16-QAM	2526.00	18.88	H	5.23	10.01	23.65	0.232	33.00	-9.35	1 / 1
		2592.99	19.03	H	5.30	9.90	23.63	0.231	33.00	-9.37	1 / 160
		2659.98	19.05	H	5.36	9.87	23.55	0.226	33.00	-9.45	1 / 1
50	QPSK	2521.01	19.79	H	5.23	10.02	24.58	0.287	33.00	-8.42	1 / 1
		2592.99	20.62	H	5.30	9.90	25.22	0.333	33.00	-7.78	1 / 131
		2665.00	20.30	H	5.37	9.87	24.80	0.302	33.00	-8.20	1 / 1
	16-QAM	2521.01	19.20	H	5.23	10.02	23.99	0.251	33.00	-9.01	1 / 1
		2592.99	19.27	H	5.30	9.90	23.87	0.244	33.00	-9.13	1 / 1
		2665.00	19.00	H	5.37	9.87	23.50	0.224	33.00	-9.50	1 / 131
40	QPSK	2516.01	19.55	H	5.22	10.02	24.35	0.272	33.00	-8.65	1 / 1
		2592.99	20.41	H	5.30	9.90	25.01	0.317	33.00	-7.99	1 / 52
		2670.00	20.00	H	5.37	9.88	24.50	0.282	33.00	-8.50	1 / 1
	16-QAM	2516.01	18.78	H	5.22	10.02	23.58	0.228	33.00	-9.42	1 / 1
		2592.99	19.21	H	5.30	9.90	23.81	0.240	33.00	-9.19	1 / 52
		2670.00	18.82	H	5.37	9.88	23.32	0.215	33.00	-9.68	1 / 1
30	QPSK	2511.01	19.57	H	5.22	10.03	24.39	0.275	33.00	-8.61	1 / 1
		2592.99	20.49	H	5.30	9.90	25.09	0.323	33.00	-7.91	1 / 76
		2675.00	20.20	H	5.38	9.88	24.70	0.295	33.00	-8.30	1 / 1
	16-QAM	2511.01	18.99	H	5.22	10.03	23.81	0.240	33.00	-9.19	1 / 1
		2592.99	19.30	H	5.30	9.90	23.90	0.245	33.00	-9.10	1 / 76
		2675.00	19.17	H	5.38	9.88	23.67	0.233	33.00	-9.33	1 / 1
25	QPSK	2508.51	19.55	H	5.22	10.04	24.37	0.274	33.00	-8.63	1 / 1
		2592.99	20.54	H	5.30	9.90	25.14	0.327	33.00	-7.86	1 / 1
		2677.50	20.12	H	5.38	9.88	24.61	0.289	33.00	-8.39	1 / 32
	16-QAM	2508.51	18.77	H	5.22	10.04	23.59	0.229	33.00	-9.41	1 / 1
		2592.99	19.35	H	5.30	9.90	23.95	0.248	33.00	-9.05	1 / 1
		2677.50	18.98	H	5.38	9.88	23.47	0.222	33.00	-9.53	1 / 1
20	QPSK	2506.02	19.38	H	5.21	10.04	24.21	0.264	33.00	-8.79	1 / 26
		2592.99	20.44	H	5.30	9.90	25.04	0.319	33.00	-7.96	1 / 1
		2679.99	19.79	H	5.39	9.88	24.28	0.268	33.00	-8.72	1 / 1
	16-QAM	2506.02	18.60	H	5.21	10.04	23.43	0.220	33.00	-9.57	1 / 26
		2592.99	19.14	H	5.30	9.90	23.74	0.237	33.00	-9.26	1 / 49
		2679.99	18.75	H	5.39	9.88	23.24	0.211	33.00	-9.76	1 / 1
15	QPSK	2503.50	19.40	H	5.21	10.05	24.23	0.265	33.00	-8.77	1 / 1
		2592.99	20.56	H	5.30	9.90	25.16	0.328	33.00	-7.84	1 / 36
		2682.48	19.74	H	5.39	9.88	24.23	0.265	33.00	-8.77	1 / 36
	16-QAM	2503.50	18.81	H	5.21	10.05	23.64	0.231	33.00	-9.36	1 / 1
		2592.99	19.31	H	5.30	9.90	23.91	0.246	33.00	-9.09	1 / 36
		2682.48	18.56	H	5.39	9.88	23.05	0.202	33.00	-9.95	1 / 19
10	QPSK	2501.01	19.48	H	5.21	10.05	24.32	0.270	33.00	-8.68	1 / 1
		2592.99	20.49	H	5.30	9.90	25.09	0.323	33.00	-7.91	1 / 1
		2685.00	19.58	H	5.39	9.89	24.07	0.255	33.00	-8.93	1 / 22
	16-QAM	2501.01	18.68	H	5.21	10.05	23.52	0.225	33.00	-9.48	1 / 22
		2592.99	19.12	H	5.30	9.90	23.72	0.236	33.00	-9.28	1 / 22
		2685.00	18.49	H	5.39	9.89	22.98	0.199	33.00	-10.02	1 / 12
100	QPSK	2546.01	19.14	H	5.26	9.97	23.85	0.243	33.00	-9.15	270/0
		2592.99	19.36	H	5.30	9.90	23.96	0.249	33.00	-9.04	270/0
		2640.00	19.81	H	5.36	9.87	24.32	0.270	33.00	-8.68	270/0
	16-QAM	2546.01	18.24	H	5.26	9.97	22.95	0.197	33.00	-10.05	270/0
		2592.99	18.49	H	5.30	9.90	23.09	0.204	33.00	-9.91	270/0
		2640.00	18.83	H	5.36	9.87	23.34	0.216	33.00	-9.66	270/0

NR Band n41 (PC2) DFT-s OFDM (ANT F)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	EIRP (W)	Limit (dBm)	Delta (dB)	RB
100	QPSK	2546.01	21.60	H	5.26	9.97	26.31	0.428	33.00	-6.69	1 / 271
		2592.99	20.00	H	5.30	9.90	24.60	0.288	33.00	-8.40	1 / 271
		2640.00	21.35	H	5.36	9.87	25.86	0.385	33.00	-7.14	1 / 1
	16-QAM	2546.01	20.47	H	5.26	9.97	25.18	0.330	33.00	-7.82	1 / 271
		2592.99	18.77	H	5.30	9.90	23.37	0.217	33.00	-9.63	1 / 271
		2640.00	20.24	H	5.36	9.87	24.75	0.299	33.00	-8.25	1 / 1
90	QPSK	2541.00	21.56	H	5.25	9.98	26.28	0.425	33.00	-6.72	1 / 243
		2592.99	19.34	H	5.30	9.90	23.94	0.248	33.00	-9.06	1 / 1
		2644.98	20.53	H	5.36	9.86	25.04	0.319	33.00	-7.96	1 / 1
	16-QAM	2541.00	20.31	H	5.25	9.98	25.03	0.318	33.00	-7.97	1 / 1
		2592.99	18.25	H	5.30	9.90	22.85	0.193	33.00	-10.15	1 / 123
		2644.98	19.57	H	5.36	9.86	24.08	0.256	33.00	-8.92	1 / 1
80	QPSK	2536.02	21.45	H	5.25	9.99	26.18	0.415	33.00	-6.82	1 / 215
		2592.99	19.45	H	5.30	9.90	24.05	0.254	33.00	-8.95	1 / 215
		2649.99	20.43	H	5.37	9.86	24.92	0.310	33.00	-8.08	1 / 215
	16-QAM	2536.02	20.62	H	5.25	9.99	25.35	0.343	33.00	-7.65	1 / 108
		2592.99	18.24	H	5.30	9.90	22.84	0.192	33.00	-10.16	1 / 108
		2649.99	19.40	H	5.37	9.86	23.89	0.245	33.00	-9.11	1 / 1
70	QPSK	2531.02	21.66	H	5.24	10.00	26.41	0.438	33.00	-6.59	1 / 187
		2592.99	19.17	H	5.30	9.90	23.77	0.238	33.00	-9.23	1 / 94
		2654.98	20.46	H	5.37	9.86	24.96	0.313	33.00	-8.04	1 / 1
	16-QAM	2531.02	20.68	H	5.24	10.00	25.43	0.349	33.00	-7.57	1 / 187
		2592.99	18.26	H	5.30	9.90	22.86	0.193	33.00	-10.14	1 / 94
		2654.98	19.39	H	5.37	9.86	23.89	0.245	33.00	-9.11	1 / 94
60	QPSK	2526.00	21.35	H	5.23	10.01	26.12	0.409	33.00	-6.88	1 / 80
		2592.99	19.33	H	5.30	9.90	23.93	0.247	33.00	-9.07	1 / 1
		2659.98	20.45	H	5.36	9.87	24.95	0.313	33.00	-8.05	1 / 1
	16-QAM	2526.00	20.37	H	5.23	10.01	25.14	0.327	33.00	-7.86	1 / 80
		2592.99	18.04	H	5.30	9.90	22.64	0.184	33.00	-10.36	1 / 80
		2659.98	19.21	H	5.36	9.87	23.71	0.235	33.00	-9.29	1 / 160
50	QPSK	2521.01	21.30	H	5.23	10.02	26.09	0.406	33.00	-6.91	1 / 131
		2592.99	19.32	H	5.30	9.90	23.92	0.247	33.00	-9.08	1 / 1
		2665.00	20.61	H	5.37	9.87	25.11	0.324	33.00	-7.89	1 / 1
	16-QAM	2521.01	20.23	H	5.23	10.02	25.02	0.318	33.00	-7.98	1 / 66
		2592.99	18.18	H	5.30	9.90	22.78	0.190	33.00	-10.22	1 / 1
		2665.00	19.44	H	5.37	9.87	23.94	0.248	33.00	-9.06	1 / 1
40	QPSK	2516.01	21.20	H	5.22	10.02	26.00	0.398	33.00	-7.00	1 / 1
		2592.99	19.40	H	5.30	9.90	24.00	0.251	33.00	-9.00	1 / 1
		2670.00	20.54	H	5.37	9.88	25.04	0.319	33.00	-7.96	1 / 1
	16-QAM	2516.01	20.14	H	5.22	10.02	24.94	0.312	33.00	-8.06	1 / 52
		2592.99	18.23	H	5.30	9.90	22.83	0.192	33.00	-10.17	1 / 52
		2670.00	19.46	H	5.37	9.88	23.96	0.249	33.00	-9.04	1 / 1
30	QPSK	2511.01	21.06	H	5.22	10.03	25.88	0.387	33.00	-7.12	1 / 76
		2592.99	19.43	H	5.30	9.90	24.03	0.253	33.00	-8.97	1 / 1
		2675.00	20.74	H	5.38	9.88	25.24	0.334	33.00	-7.76	1 / 1
	16-QAM	2511.01	19.99	H	5.22	10.03	24.81	0.303	33.00	-8.19	1 / 39
		2592.99	18.23	H	5.30	9.90	22.83	0.192	33.00	-10.17	1 / 39
		2675.00	19.57	H	5.38	9.88	24.07	0.255	33.00	-8.93	1 / 1
25	QPSK	2508.51	21.07	H	5.22	10.04	25.89	0.388	33.00	-7.11	1 / 1
		2592.99	19.29	H	5.30	9.90	23.89	0.245	33.00	-9.11	1 / 1
		2677.50	20.59	H	5.38	9.88	25.08	0.322	33.00	-7.92	1 / 1
	16-QAM	2508.51	20.02	H	5.22	10.04	24.84	0.305	33.00	-8.16	1 / 32
		2592.99	18.21	H	5.30	9.90	22.81	0.191	33.00	-10.19	1 / 32
		2677.50	19.56	H	5.38	9.88	24.05	0.254	33.00	-8.95	1 / 1
20	QPSK	2506.02	21.13	H	5.21	10.04	25.96	0.394	33.00	-7.04	1 / 49
		2592.99	19.34	H	5.30	9.90	23.94	0.248	33.00	-9.06	1 / 1
		2679.99	20.52	H	5.39	9.88	25.01	0.317	33.00	-7.99	1 / 1
	16-QAM	2506.02	20.02	H	5.21	10.04	24.85	0.305	33.00	-8.15	1 / 26
		2592.99	18.27	H	5.30	9.90	22.87	0.194	33.00	-10.13	1 / 26
		2679.99	19.45	H	5.39	9.88	23.94	0.248	33.00	-9.06	1 / 0
15	QPSK	2503.50	21.10	H	5.21	10.05	25.93	0.392	33.00	-7.07	1 / 36
		2592.99	19.30	H	5.30	9.90	23.90	0.245	33.00	-9.10	1 / 1
		2682.48	20.37	H	5.39	9.88	24.86	0.306	33.00	-8.14	1 / 1
	16-QAM	2503.50	20.09	H	5.21	10.05	24.92	0.310	33.00	-8.08	1 / 1
		2592.99	18.20	H	5.30	9.90	22.80	0.191	33.00	-10.20	1 / 19
		2682.48	19.33	H	5.39	9.88	23.82	0.241	33.00	-9.18	1 / 1
10	QPSK	2501.01	21.04	H	5.21	10.05	25.88	0.387	33.00	-7.12	1 / 22
		2592.99	19.42	H	5.30	9.90	24.02	0.252	33.00	-8.98	1 / 1
		2685.00	20.29	H	5.39	9.89	24.78	0.301	33.00	-8.22	1 / 1
	16-QAM	2501.01	20.02	H	5.21	10.05	24.86	0.306	33.00	-8.14	1 / 1
		2592.99	18.17	H	5.30	9.90	22.77	0.189	33.00	-10.23	1 / 12
		2685.00	19.11	H	5.39	9.89	23.60	0.229	33.00	-9.40	1 / 1
70	QPSK	2531.02	20.79	H	5.24	10.00	25.54	0.358	33.00	-7.46	180/0
		2592.99	18.33	H	5.30	9.90	22.93	0.196	33.00	-10.07	180/0
		2654.98	19.48	H	5.37	9.86	23.98	0.250	33.00	-9.02	180/0
100	16-QAM	2546.01	18.29	H	5.26	9.97	23.00	0.200	33.00	-10.00	270/0
		2592.99	17.86	H	5.30	9.90	22.46	0.176	33.00	-10.54	270/0
		2640.00	19.20	H	5.36	9.87	23.71	0.235	33.00	-9.29	270/0

NR Band n66 DFT-s OFDM (ANT A)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	EIRP (W)	Limit (dBm)	Delta (dB)	RB
40	QPSK	1730.00	17.70	H	4.31	9.53	22.92	0.196	30.00	-7.08	1 / 107
		1745.00	18.11	V	4.33	9.58	23.37	0.217	30.00	-6.63	1 / 107
		1760.00	16.75	V	4.35	9.61	22.01	0.159	30.00	-7.99	1 / 107
	16-QAM	1730.00	17.47	H	4.31	9.53	22.69	0.186	30.00	-7.31	1 / 107
		1745.00	17.57	V	4.33	9.58	22.83	0.192	30.00	-7.17	1 / 107
		1760.00	16.70	V	4.35	9.61	21.96	0.157	30.00	-8.04	1 / 107
35	QPSK	1727.50	16.55	H	4.30	9.52	21.77	0.150	30.00	-8.23	1 / 0
		1745.00	17.07	V	4.33	9.58	22.33	0.171	30.00	-7.67	1 / 0
		1762.50	15.94	V	4.35	9.62	21.21	0.132	30.00	-8.79	1 / 0
	16-QAM	1727.50	17.45	H	4.30	9.52	22.67	0.185	30.00	-7.33	1 / 186
		1745.00	17.51	V	4.33	9.58	22.77	0.189	30.00	-7.23	1 / 93
		1762.50	16.83	V	4.35	9.62	22.10	0.162	30.00	-7.90	1 / 1
30	QPSK	1725.00	17.54	H	4.30	9.52	22.76	0.189	30.00	-7.24	1 / 79
		1745.00	18.03	V	4.33	9.58	23.29	0.213	30.00	-6.71	1 / 158
		1765.00	16.95	V	4.36	9.62	22.22	0.167	30.00	-7.78	1 / 1
	16-QAM	1725.00	17.40	H	4.30	9.52	22.62	0.183	30.00	-7.38	1 / 158
		1745.00	17.51	V	4.33	9.58	22.77	0.189	30.00	-7.23	1 / 1
		1765.00	16.84	V	4.36	9.62	22.11	0.163	30.00	-7.89	1 / 1
25	QPSK	1722.50	17.50	H	4.30	9.51	22.71	0.187	30.00	-7.29	1 / 131
		1745.00	18.09	V	4.33	9.58	23.35	0.216	30.00	-6.65	1 / 131
		1767.50	16.95	V	4.36	9.62	22.21	0.166	30.00	-7.79	1 / 1
	16-QAM	1722.50	17.35	H	4.30	9.51	22.56	0.180	30.00	-7.44	1 / 66
		1745.00	17.58	V	4.33	9.58	22.84	0.192	30.00	-7.16	1 / 1
		1767.50	16.96	V	4.36	9.62	22.22	0.167	30.00	-7.78	1 / 1
20	QPSK	1720.00	17.37	H	4.30	9.50	22.57	0.181	30.00	-7.43	1 / 104
		1745.00	18.12	V	4.33	9.58	23.38	0.218	30.00	-6.62	1 / 52
		1770.00	16.91	V	4.36	9.62	22.17	0.165	30.00	-7.83	1 / 1
	16-QAM	1720.00	17.12	H	4.30	9.50	22.32	0.171	30.00	-7.68	1 / 104
		1745.00	17.57	V	4.33	9.58	22.83	0.192	30.00	-7.17	1 / 52
		1770.00	16.82	V	4.36	9.62	22.08	0.161	30.00	-7.92	1 / 1
15	QPSK	1717.50	17.46	H	4.30	9.49	22.65	0.184	30.00	-7.35	1 / 1
		1745.00	18.10	V	4.33	9.58	23.36	0.217	30.00	-6.64	1 / 39
		1772.50	17.04	V	4.37	9.63	22.30	0.170	30.00	-7.70	1 / 1
	16-QAM	1717.50	17.28	H	4.30	9.49	22.47	0.177	30.00	-7.53	1 / 39
		1745.00	17.59	V	4.33	9.58	22.85	0.193	30.00	-7.15	1 / 77
		1772.50	16.84	V	4.37	9.63	22.10	0.162	30.00	-7.90	1 / 1
10	QPSK	1715.00	17.15	H	4.29	9.48	22.34	0.171	30.00	-7.66	1 / 25
		1745.00	18.12	V	4.33	9.58	23.38	0.218	30.00	-6.62	1 / 50
		1775.00	16.92	V	4.37	9.63	22.18	0.165	30.00	-7.82	1 / 1
	16-QAM	1715.00	16.94	H	4.29	9.48	22.13	0.163	30.00	-7.87	1 / 25
		1745.00	17.55	V	4.33	9.58	22.81	0.191	30.00	-7.19	1 / 25
		1775.00	16.88	V	4.37	9.63	22.14	0.164	30.00	-7.86	1 / 1
5	QPSK	1712.50	17.02	H	4.29	9.47	22.21	0.166	30.00	-7.79	1 / 23
		1745.00	18.13	V	4.33	9.58	23.39	0.218	30.00	-6.61	1 / 1
		1777.50	16.79	V	4.37	9.63	22.05	0.160	30.00	-7.95	1 / 12
	16-QAM	1712.50	16.79	H	4.29	9.47	21.98	0.158	30.00	-8.02	1 / 12
		1745.00	17.58	V	4.33	9.58	22.84	0.192	30.00	-7.16	1 / 12
		1777.50	16.77	V	4.37	9.63	22.03	0.160	30.00	-7.97	1 / 12
5	QPSK	1712.50	16.17	H	4.29	9.47	21.36	0.137	30.00	-8.64	25/0
		1745.00	16.99	V	4.33	9.58	22.25	0.168	30.00	-7.75	25/0
		1777.50	15.69	V	4.37	9.63	20.95	0.124	30.00	-9.05	25/0
15	16-QAM	1717.50	16.41	H	4.30	9.49	21.60	0.145	30.00	-8.40	75/0
		1745.00	16.76	V	4.33	9.58	22.02	0.159	30.00	-7.98	75/0
		1772.50	16.13	V	4.37	9.63	21.39	0.138	30.00	-8.61	75/0

NR Band n66 DFT-s OFDM (ANT F)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Limit (dBm)	Delta (dB)	RB
40	QPSK	1730.00	15.01	H	4.31	9.53	20.23	0.105	30.00	-9.77	1 / 1
		1745.00	14.73	H	4.33	9.58	19.98	0.100	30.00	-10.02	1 / 1
		1760.00	14.69	H	4.35	9.61	19.96	0.099	30.00	-10.04	1 / 1
	16-QAM	1730.00	14.82	H	4.31	9.53	20.04	0.101	30.00	-9.96	1 / 1
		1745.00	14.66	H	4.33	9.58	19.91	0.098	30.00	-10.09	1 / 1
		1760.00	14.55	H	4.35	9.61	19.82	0.096	30.00	-10.18	1 / 107
35	QPSK	1727.50	13.77	H	4.30	9.52	18.99	0.079	30.00	-11.01	1 / 0
		1745.00	13.55	H	4.33	9.58	18.80	0.076	30.00	-11.20	1 / 0
		1762.50	13.77	H	4.35	9.62	19.03	0.080	30.00	-10.97	1 / 0
	16-QAM	1727.50	14.90	H	4.30	9.52	20.12	0.103	30.00	-9.88	1 / 93
		1745.00	14.77	H	4.33	9.58	20.02	0.100	30.00	-9.98	1 / 1
		1762.50	14.68	H	4.35	9.62	19.94	0.099	30.00	-10.06	1 / 186
30	QPSK	1725.00	14.76	H	4.30	9.52	19.98	0.100	30.00	-10.02	1 / 1
		1745.00	14.55	H	4.33	9.58	19.80	0.095	30.00	-10.20	1 / 1
		1765.00	14.73	H	4.36	9.62	19.99	0.100	30.00	-10.01	1 / 1
	16-QAM	1725.00	14.85	H	4.30	9.52	20.07	0.102	30.00	-9.93	1 / 1
		1745.00	14.77	H	4.33	9.58	20.02	0.100	30.00	-9.98	1 / 1
		1765.00	14.69	H	4.36	9.62	19.95	0.099	30.00	-10.05	1 / 79
25	QPSK	1722.50	14.95	H	4.30	9.51	20.16	0.104	30.00	-9.84	1 / 1
		1745.00	14.80	H	4.33	9.58	20.05	0.101	30.00	-9.95	1 / 1
		1767.50	14.81	H	4.36	9.62	20.07	0.102	30.00	-9.93	1 / 1
	16-QAM	1722.50	14.83	H	4.30	9.51	20.04	0.101	30.00	-9.96	1 / 1
		1745.00	14.81	H	4.33	9.58	20.06	0.101	30.00	-9.94	1 / 1
		1767.50	14.58	H	4.36	9.62	19.84	0.096	30.00	-10.16	1 / 1
20	QPSK	1720.00	14.78	H	4.30	9.50	19.98	0.100	30.00	-10.02	1 / 1
		1745.00	14.74	H	4.33	9.58	19.99	0.100	30.00	-10.01	1 / 1
		1770.00	14.53	H	4.36	9.62	19.79	0.095	30.00	-10.21	1 / 1
	16-QAM	1720.00	14.66	H	4.30	9.50	19.86	0.097	30.00	-10.14	1 / 1
		1745.00	14.68	H	4.33	9.58	19.93	0.098	30.00	-10.07	1 / 104
		1770.00	14.34	H	4.36	9.62	19.60	0.091	30.00	-10.40	1 / 1
15	QPSK	1717.50	14.92	H	4.30	9.49	20.11	0.103	30.00	-9.89	1 / 1
		1745.00	14.82	H	4.33	9.58	20.07	0.102	30.00	-9.93	1 / 1
		1772.50	14.45	H	4.37	9.63	19.71	0.094	30.00	-10.29	1 / 39
	16-QAM	1717.50	14.80	H	4.30	9.49	19.99	0.100	30.00	-10.01	1 / 1
		1745.00	14.77	H	4.33	9.58	20.02	0.100	30.00	-9.98	1 / 1
		1772.50	14.29	H	4.37	9.63	19.55	0.090	30.00	-10.45	1 / 1
10	QPSK	1715.00	14.98	H	4.29	9.48	20.17	0.104	30.00	-9.83	1 / 1
		1745.00	14.84	H	4.33	9.58	20.09	0.102	30.00	-9.91	1 / 1
		1775.00	14.42	H	4.37	9.63	19.67	0.093	30.00	-10.33	1 / 25
	16-QAM	1715.00	14.72	H	4.29	9.48	19.91	0.098	30.00	-10.09	1 / 1
		1745.00	14.81	H	4.33	9.58	20.06	0.101	30.00	-9.94	1 / 1
		1775.00	14.18	H	4.37	9.63	19.43	0.088	30.00	-10.57	1 / 1
5	QPSK	1712.50	14.76	H	4.29	9.47	19.95	0.099	30.00	-10.05	1 / 12
		1745.00	14.70	H	4.33	9.58	19.95	0.099	30.00	-10.05	1 / 12
		1777.50	14.51	H	4.37	9.63	19.76	0.095	30.00	-10.24	1 / 12
	16-QAM	1712.50	14.66	H	4.29	9.47	19.85	0.097	30.00	-10.15	1 / 1
		1745.00	14.65	H	4.33	9.58	19.90	0.098	30.00	-10.10	1 / 1
		1777.50	14.33	H	4.37	9.63	19.58	0.091	30.00	-10.42	1 / 12
40	QPSK	1730.00	13.93	H	4.31	9.53	19.15	0.082	30.00	-10.85	216/0
		1745.00	13.98	H	4.33	9.58	19.23	0.084	30.00	-10.77	216/0
		1760.00	13.61	H	4.35	9.61	18.88	0.077	30.00	-11.12	216/0
30	16-QAM	1725.00	13.83	H	4.30	9.52	19.05	0.080	30.00	-10.95	160/0
		1745.00	13.98	H	4.33	9.58	19.23	0.084	30.00	-10.77	160/0
		1765.00	13.93	H	4.36	9.62	19.19	0.083	30.00	-10.81	160/0

9.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §27.53

LIMIT

§27.53:

(h) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

(m) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01

For peak power measurement with a ESU40:

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- g) Trace Mode = average(FDD), Maxhold(TDD);

NOTE1

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS

See the following pages.

9.2.1. SPURIOUS RADIATION RESULT

LTE Band 41C (UL CA)

20+20 MHz QPSK ANT B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																			
	Company:		Samsung																	
	Project #:		4791953314																	
	Date:		2025-12-18																	
	Test Engineer:		27089																	
	Configuration:		EUT / AC Adapter, Z-Position																	
	Location:		Chamber 2																	
	Mode:		ULCA QPSK Band 41C Harmonics, 40MHz Bandwidth																	
	Test Votage:		AC 120 V, 60 Hz																	
	f MHz		SA reading (dBm)		Ant. Pol. (H/V)		Distance (m)		AFCL (dB/m)		Conversion Factor(dB)		EIRP (dBm)		Limit (dBm)		Delta (dB)		Notes	
	Low Ch, PCC : 2506 MHz SCC : 2525.8 MHz																			
	5031.80		-75.3		H		3.0		3.2		11.74		-60.3		-25.0		-35.3			
	7547.70		-77.5		H		3.0		8.3		11.74		-57.4		-25.0		-32.4		NF	
	10063.60		-81.1		H		3.0		13.7		11.74		-55.6		-25.0		-30.6		NF	
	Mid Ch, PCC : 2583.1 MHz SCC : 2602.9 MHz																			
	5186.00		-75.4		V		3.0		3.7		11.74		-59.9		-25.0		-34.9			
	7779.00		-78.3		V		3.0		8.9		11.74		-57.7		-25.0		-32.7		NF	
10372.00		-81.2		V		3.0		14.2		11.74		-55.2		-25.0		-30.2		NF		
5186.00		-74.6		H		3.0		3.7		11.74		-59.1		-25.0		-34.1				
7779.00		-78.2		H		3.0		8.9		11.74		-57.6		-25.0		-32.6		NF		
10372.00		-80.8		H		3.0		14.2		11.74		-54.8		-25.0		-29.8		NF		
High Ch PCC : 2660.2 MHz SCC : 2680 MHz																				
5340.20		-75.2		H		3.0		3.9		11.74		-59.5		-25.0		-34.5				
8010.30		-78.1		H		3.0		9.0		11.74		-57.4		-25.0		-32.4		NF		
10680.40		-81.5		H		3.0		14.9		11.74		-54.9		-25.0		-29.9		NF		
NF : Noise Floor																				

20+20 MHz QPSK ANT F	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																			
	Company:		Samsung																	
	Project #:		4791953314																	
	Date:		2025-12-18																	
	Test Engineer:		27089																	
	Configuration:		EUT / AC Adapter, Z-Position																	
	Location:		Chamber 2																	
	Mode:		ULCA QPSK Band 41C Harmonics, 40MHz Bandwidth																	
	Test Votage:		AC 120 V, 60 Hz																	
	f MHz		SA reading (dBm)		Ant. Pol. (H/V)		Distance (m)		AFCL (dB/m)		Conversion Factor(dB)		EIRP (dBm)		Limit (dBm)		Delta (dB)		Notes	
	Low Ch, PCC : 2506 MHz SCC : 2525.8 MHz																			
	5031.80		-75.4		V		3.0		3.2		11.74		-60.4		-25.0		-35.4		NF	
	7547.70		-77.4		V		3.0		8.3		11.74		-57.3		-25.0		-32.3		NF	
	10063.60		-80.5		V		3.0		13.7		11.74		-55.0		-25.0		-30.0			
	12579.50		-79.4		V		3.0		18.3		11.74		-49.4		-25.0		-24.4			
	15095.40		-82.4		V		3.0		20.6		11.74		-50.0		-25.0		-25.0		NF	
	Mid Ch, PCC : 2583.1 MHz SCC : 2602.9 MHz																			
	5186.00		-75.1		V		3.0		3.7		11.74		-59.6		-25.0		-34.6		NF	
	7779.00		-77.8		V		3.0		8.9		11.74		-57.2		-25.0		-32.2		NF	
	10372.00		-80.0		V		3.0		14.2		11.74		-54.1		-25.0		-29.1			
	12965.00		-76.1		V		3.0		18.4		11.74		-46.0		-25.0		-21.0			
	15558.00		-82.5		V		3.0		20.9		11.74		-49.9		-25.0		-24.9		NF	
	High Ch PCC : 2660.2 MHz SCC : 2680 MHz																			
	5340.20		-75.1		V		3.0		3.9		11.74		-59.4		-25.0		-34.4		NF	
	8010.30		-77.7		V		3.0		9.0		11.74		-56.9		-25.0		-31.9		NF	
10680.40		-79.9		V		3.0		14.9		11.74		-53.3		-25.0		-28.3				
13350.50		-72.9		V		3.0		18.6		11.74		-42.6		-25.0		-17.6				
16020.60		-82.1		V		3.0		22.4		11.74		-47.9		-25.0		-22.9		NF		
5340.20		-75.2		H		3.0		3.9		11.74		-59.5		-25.0		-34.5		NF		
8010.30		-78.2		H		3.0		9.0		11.74		-57.4		-25.0		-32.4		NF		
10680.40		-80.9		H		3.0		14.9		11.74		-54.3		-25.0		-29.3				
13350.50		-73.2		H		3.0		18.6		11.74		-42.9		-25.0		-17.9				
16020.60		-82.4		H		3.0		22.4		11.74		-48.2		-25.0		-23.2		NF		
NF : Noise Floor																				

NR Band n41 (PC2) DFT-s OFDM

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791953314							
Date:		2025-12-17							
Test Engineer:		27089							
Configuration:		EUT / Z-Position							
Location:		Chamber 2							
Mode:		5G NR_QPSK NR n41 Harmonics, 100MHz Bandwidth							
Test Voltage:		AC 120 V, 60 Hz							
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2546.01MHz									
5092.02	-73.7	V	3.0	3.4	11.74	-58.6	-25.0	-33.6	
7638.03	-77.0	V	3.0	8.5	11.74	-56.7	-25.0	-31.7	
10184.04	-80.6	V	3.0	14.3	11.74	-54.5	-25.0	-29.5	NF
12730.05	-81.6	V	3.0	18.2	11.74	-51.6	-25.0	-26.6	NF
5092.02	-74.0	H	3.0	3.4	11.74	-58.9	-25.0	-33.9	
7638.03	-75.1	H	3.0	8.5	11.74	-54.9	-25.0	-29.9	
10184.04	-80.0	H	3.0	14.3	11.74	-54.0	-25.0	-29.0	NF
12730.05	-80.6	H	3.0	18.2	11.74	-50.6	-25.0	-25.6	NF
Mid Ch, 2592.99MHz									
5185.98	-73.3	V	3.0	3.7	11.74	-57.8	-25.0	-32.8	
7778.97	-74.0	V	3.0	8.9	11.74	-53.4	-25.0	-28.4	
10371.96	-81.1	V	3.0	14.2	11.74	-55.1	-25.0	-30.1	NF
12964.95	-81.3	V	3.0	18.4	11.74	-51.1	-25.0	-26.1	NF
5185.98	-71.6	H	3.0	3.7	11.74	-56.1	-25.0	-31.1	
7778.97	-74.9	H	3.0	8.9	11.74	-54.3	-25.0	-29.3	
10371.96	-80.7	H	3.0	14.2	11.74	-54.7	-25.0	-29.7	NF
12964.95	-81.3	H	3.0	18.4	11.74	-51.1	-25.0	-26.1	NF
High Ch, 2640MHz									
5280.00	-73.7	V	3.0	3.8	11.74	-58.1	-25.0	-33.1	
7920.00	-73.7	V	3.0	9.1	11.74	-52.8	-25.0	-27.8	
10560.00	-81.1	V	3.0	14.8	11.74	-54.5	-25.0	-29.5	NF
13200.00	-80.9	V	3.0	19.0	11.74	-50.2	-25.0	-25.2	NF
5280.00	-71.7	H	3.0	3.8	11.74	-56.1	-25.0	-31.1	
7920.00	-75.1	H	3.0	9.1	11.74	-54.3	-25.0	-29.3	
10560.00	-80.8	H	3.0	14.8	11.74	-54.2	-25.0	-29.2	NF
13200.00	-81.7	H	3.0	19.0	11.74	-51.0	-25.0	-26.0	NF
NF : Noise Floor									

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791953314							
Date:		2025-12-16							
Test Engineer:		27089							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 2							
Mode:		5G NR_QPSK NR n41 Harmonics, 70MHz Bandwidth							
Test Voltage:		AC 120 V, 60 Hz							
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2531.01MHz									
5062.02	-71.1	V	3.0	3.3	11.74	-56.1	-25.0	-31.1	
7593.03	-72.9	V	3.0	8.4	11.74	-52.8	-25.0	-27.8	
10124.04	-79.7	V	3.0	14.0	11.74	-54.0	-25.0	-29.0	
12655.05	-72.2	V	3.0	18.2	11.74	-42.3	-25.0	-17.3	
15186.06	-82.2	V	3.0	21.2	11.74	-49.2	-25.0	-24.2	
Mid Ch, 2592.99MHz									
5185.98	-69.3	V	3.0	3.7	11.74	-53.8	-25.0	-28.8	
7778.97	-73.3	V	3.0	8.9	11.74	-52.7	-25.0	-27.7	
10371.96	-79.6	V	3.0	14.2	11.74	-53.6	-25.0	-28.6	
12964.95	-69.3	V	3.0	18.4	11.74	-39.1	-25.0	-14.1	
15557.94	-82.2	V	3.0	20.9	11.74	-49.6	-25.0	-24.6	
5185.98	-71.9	H	3.0	3.7	11.74	-56.4	-25.0	-31.4	
7778.97	-73.7	H	3.0	8.9	11.74	-53.1	-25.0	-28.1	
10371.96	-78.8	H	3.0	14.2	11.74	-52.8	-25.0	-27.8	
12964.95	-71.2	H	3.0	18.4	11.74	-41.1	-25.0	-16.1	
15557.94	-82.0	H	3.0	20.9	11.74	-49.4	-25.0	-24.4	
High Ch, 2655MHz									
5310.00	-68.4	V	3.0	3.8	11.74	-52.9	-25.0	-27.9	
7965.00	-73.3	V	3.0	9.0	11.74	-52.6	-25.0	-27.6	
10620.00	-80.3	V	3.0	14.9	11.74	-53.7	-25.0	-28.7	
13275.00	-70.7	V	3.0	18.7	11.74	-40.2	-25.0	-15.2	
15930.00	-81.9	V	3.0	22.7	11.74	-47.5	-25.0	-22.5	
NF : Noise Floor									

NR Band n66 DFT-s OFDM

5 MHz QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791953314 Date: 2025-12-16 Test Engineer: 27089 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 2 Mode: 5G NR_QPSK NR n66 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1712.5MHz									
	3425.00	-76.9	V	3.0	0.4	11.74	-64.8	-13.0	-51.8	
	5137.50	-78.3	V	3.0	3.5	11.74	-63.0	-13.0	-50.0	
	6850.00	-79.7	V	3.0	7.1	11.74	-60.9	-13.0	-47.9	
	Mid Ch, 1745MHz									
	3490.00	-76.5	V	3.0	0.3	11.74	-64.5	-13.0	-51.5	
	5235.00	-77.8	V	3.0	3.8	11.74	-62.3	-13.0	-49.3	
	6980.00	-79.5	V	3.0	7.3	11.74	-60.5	-13.0	-47.5	
	3490.00	-76.7	H	3.0	0.3	11.74	-64.6	-13.0	-51.6	
	5235.00	-77.8	H	3.0	3.8	11.74	-62.3	-13.0	-49.3	
	6980.00	-79.6	H	3.0	7.3	11.74	-60.6	-13.0	-47.6	
	High Ch, 1777.5MHz									
	3555.00	-76.5	V	3.0	0.2	11.74	-64.6	-13.0	-51.6	
	5332.50	-78.0	V	3.0	3.9	11.74	-62.3	-13.0	-49.3	
	7110.00	-79.8	V	3.0	7.7	11.74	-60.4	-13.0	-47.4	
	NF : Noise Floor									
40 MHz QPSK ANT F	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791953314 Date: 2025-12-16 Test Engineer: 27089 Configuration: EUT / AC Adapter, Z-Position Location: Chamber 2 Mode: 5G NR_QPSK NR n66 Harmonics, 40MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1730MHz									
	3460.00	-77.0	H	3.0	0.3	11.74	-64.9	-13.0	-51.9	NF
	5190.00	-77.7	H	3.0	3.8	11.74	-62.2	-13.0	-49.2	NF
	6920.00	-79.5	H	3.0	7.2	11.74	-60.5	-13.0	-47.5	NF
	Mid Ch, 1745MHz									
	3490.00	-76.8	H	3.0	0.3	11.74	-64.7	-13.0	-51.7	NF
	5235.00	-78.0	H	3.0	3.8	11.74	-62.5	-13.0	-49.5	NF
	6980.00	-79.5	H	3.0	7.3	11.74	-60.5	-13.0	-47.5	NF
	High Ch, 1760MHz									
	3520.00	-76.5	V	3.0	0.3	11.74	-64.5	-13.0	-51.5	NF
	5280.00	-77.7	V	3.0	3.8	11.74	-62.1	-13.0	-49.1	NF
	7040.00	-79.6	V	3.0	7.5	11.74	-60.4	-13.0	-47.4	NF
	3520.00	-76.4	H	3.0	0.3	11.74	-64.4	-13.0	-51.4	NF
	5280.00	-77.7	H	3.0	3.8	11.74	-62.2	-13.0	-49.2	NF
	7040.00	-79.6	H	3.0	7.5	11.74	-60.4	-13.0	-47.4	NF
	NF : Noise Floor									

END OF REPORT