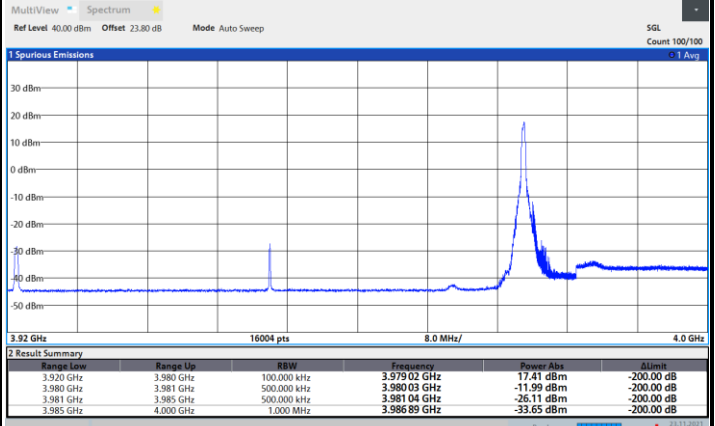
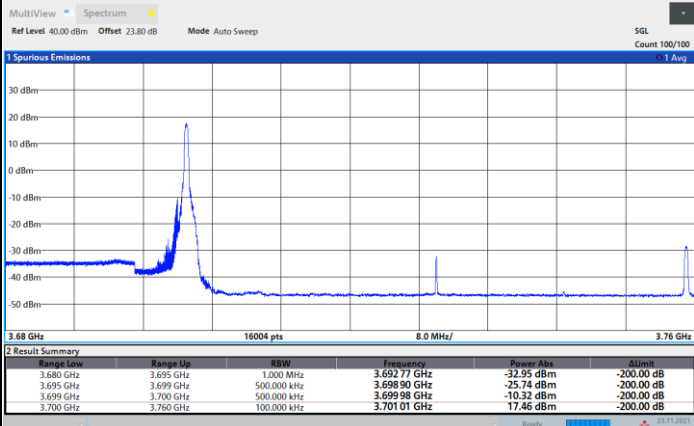




FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

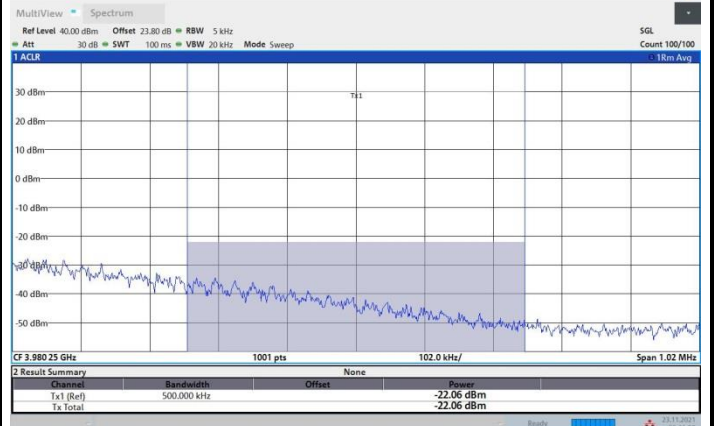
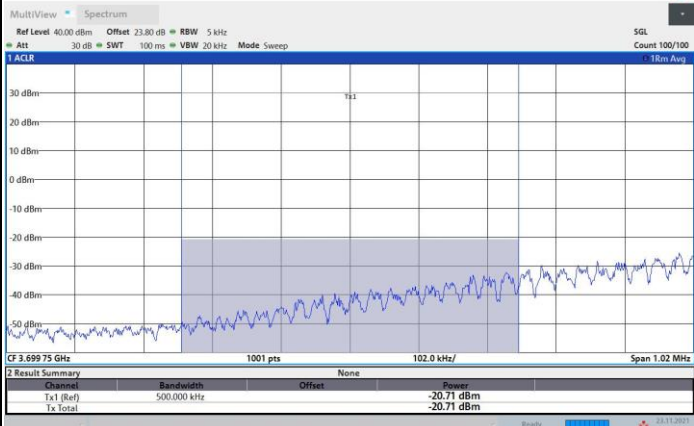


07:50:01 23.11.2021

07:55:49 23.11.2021

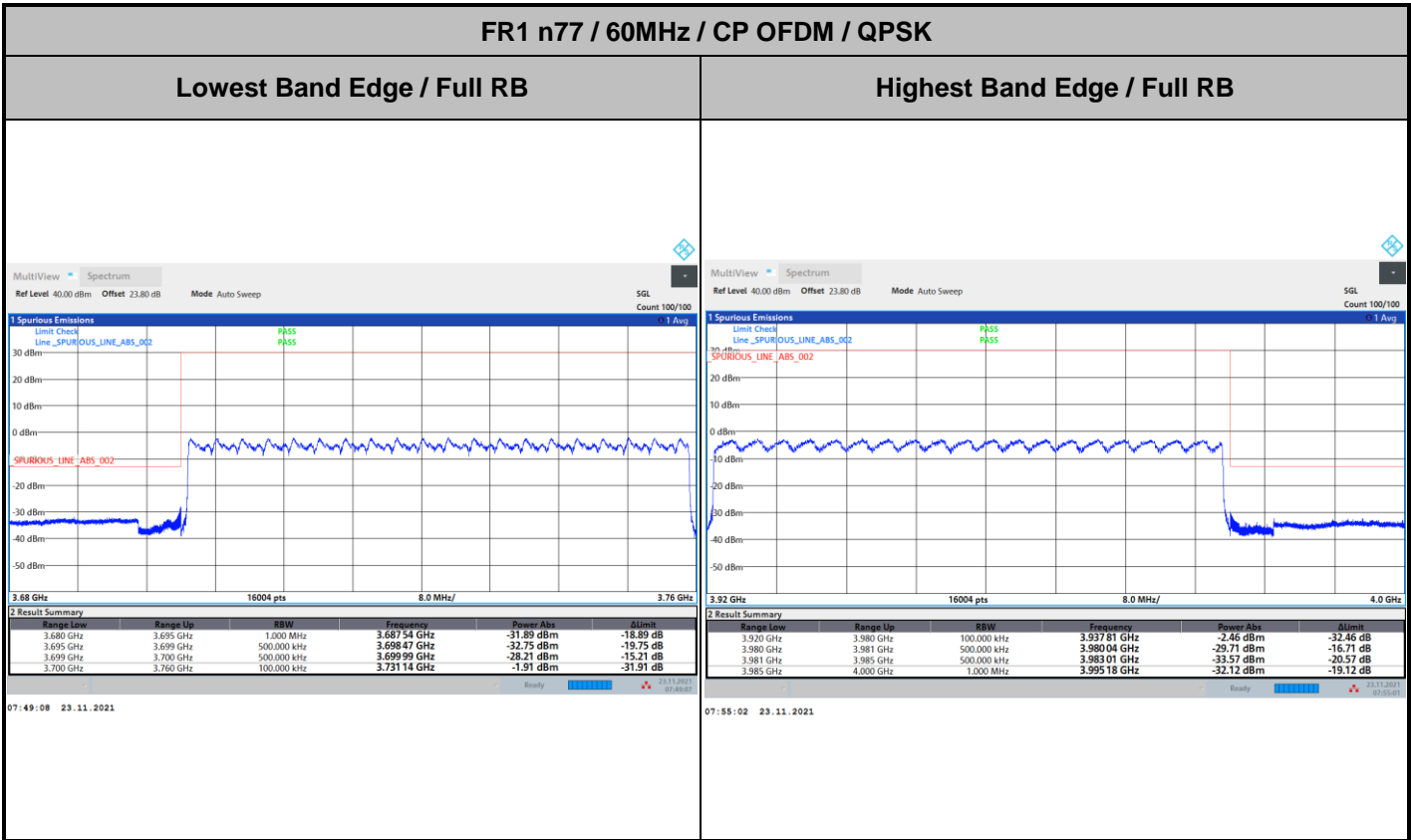
Channel power -13dBm > -20.71dBm (PASS)

Channel power -13dBm > -22.06dBm (PASS)



08:03:15 23.11.2021

08:01:58 23.11.2021

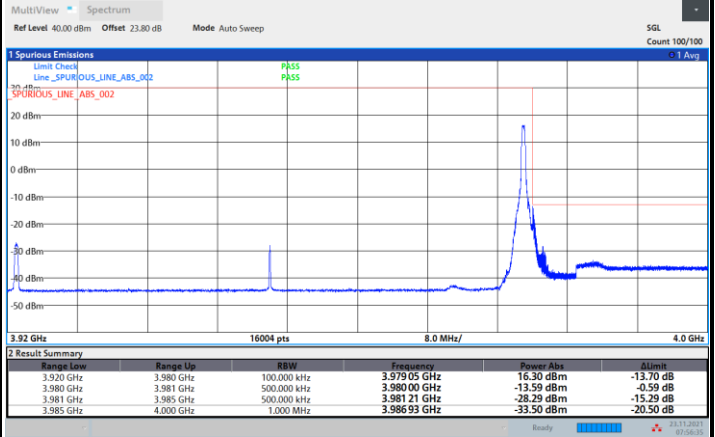
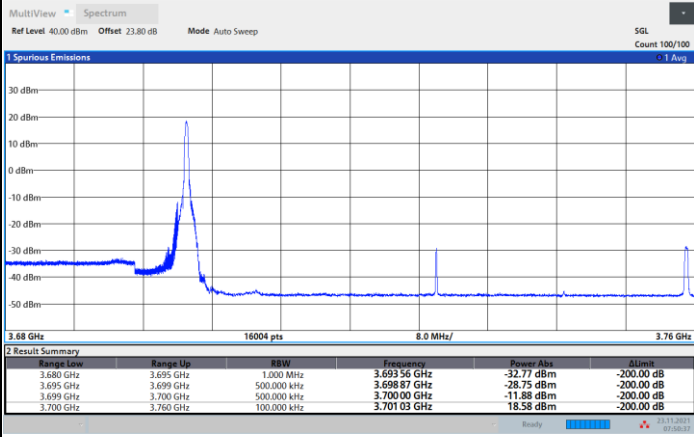




FR1 n77 / 60MHz / CP OFDM / 16QAM

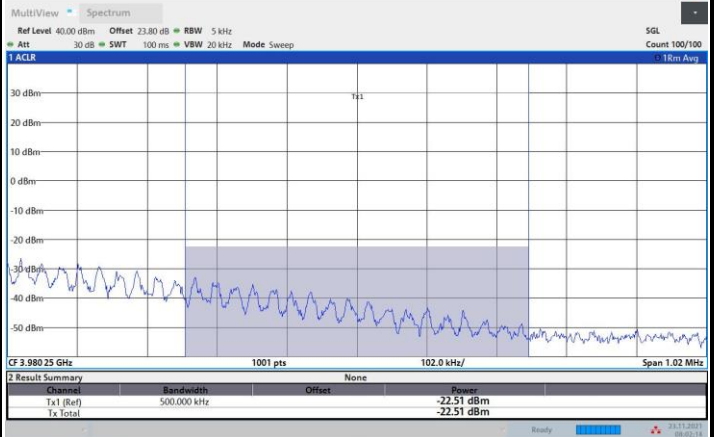
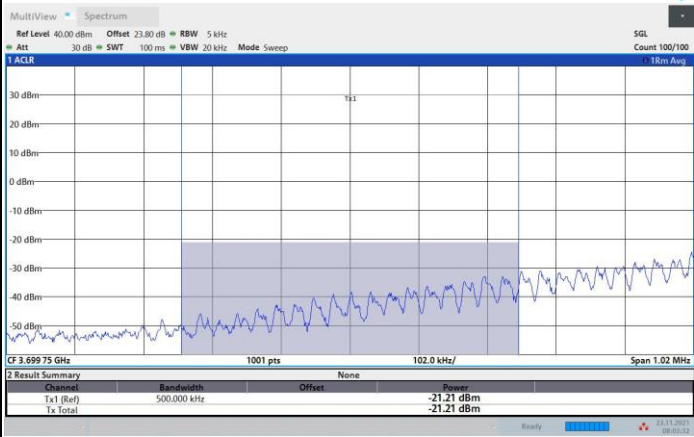
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -21.21dBm (PASS)

Channel power -13dBm > -22.51dBm (PASS)

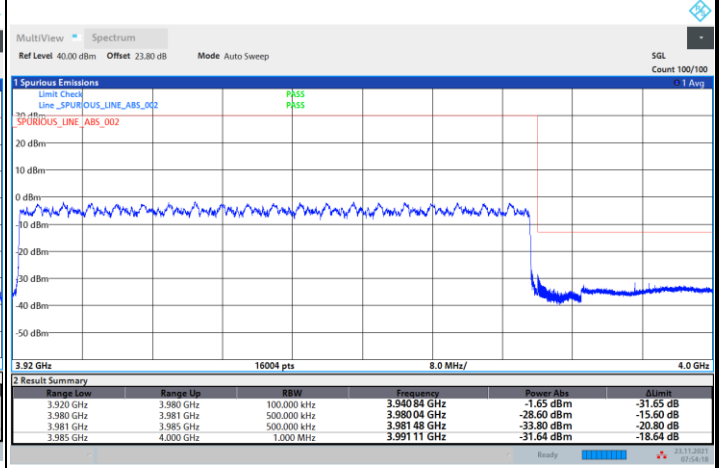
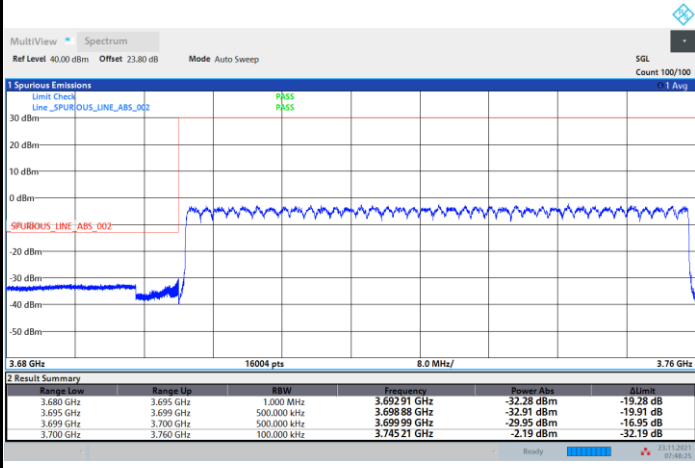




FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

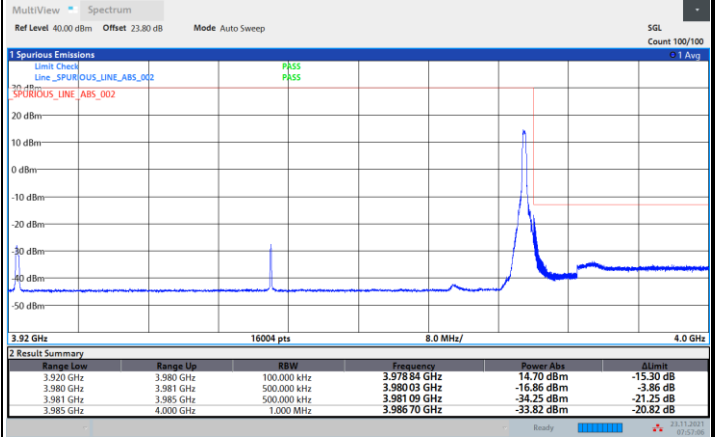
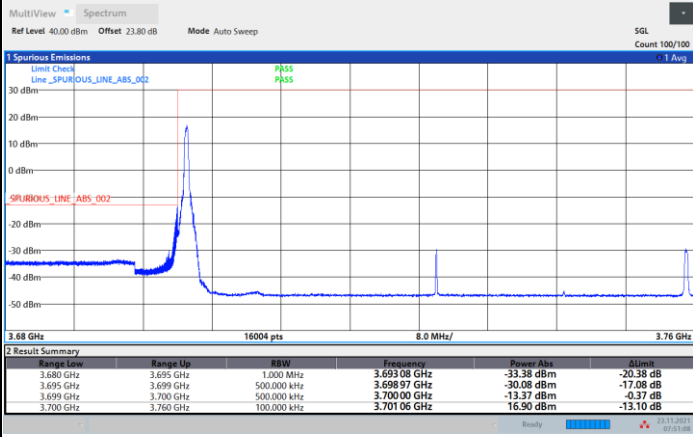




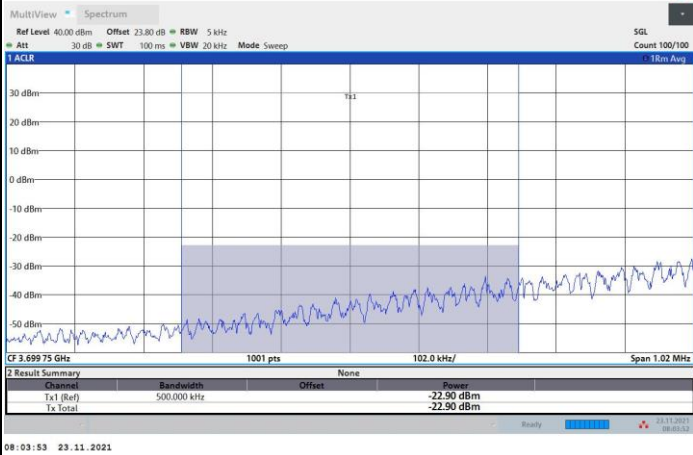
FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -22.90dBm (PASS)

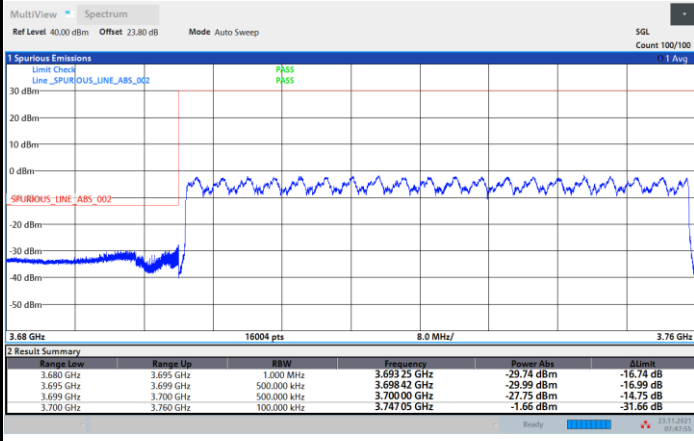




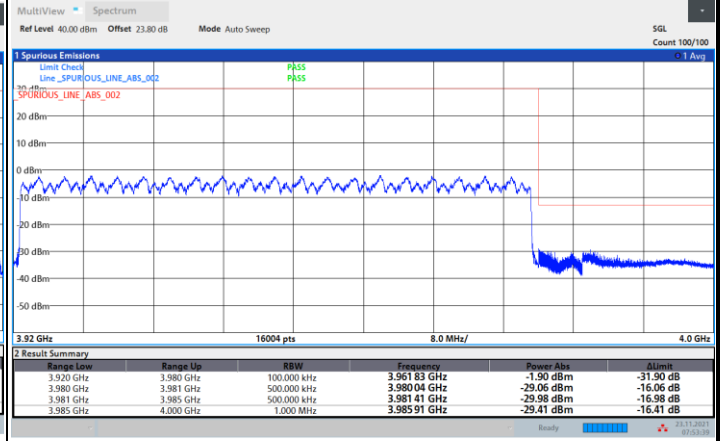
FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



07:47:55 23.11.2021



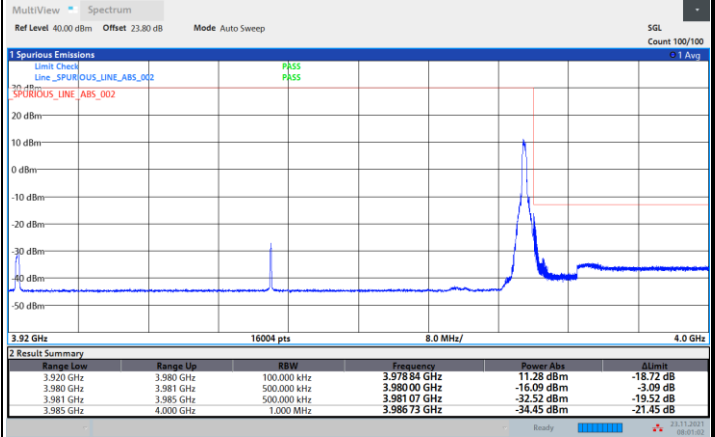
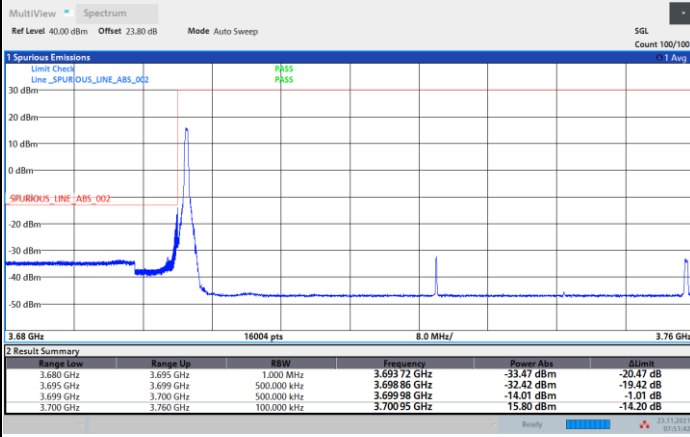
07:53:40 23.11.2021



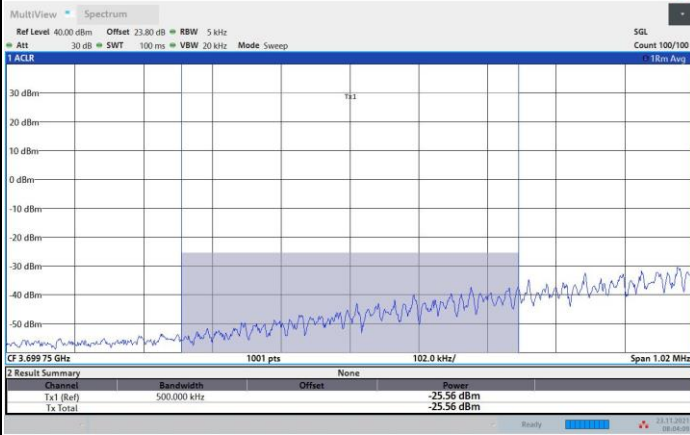
FR1 n77 / 60MHz / CP OFDM / 256QAM

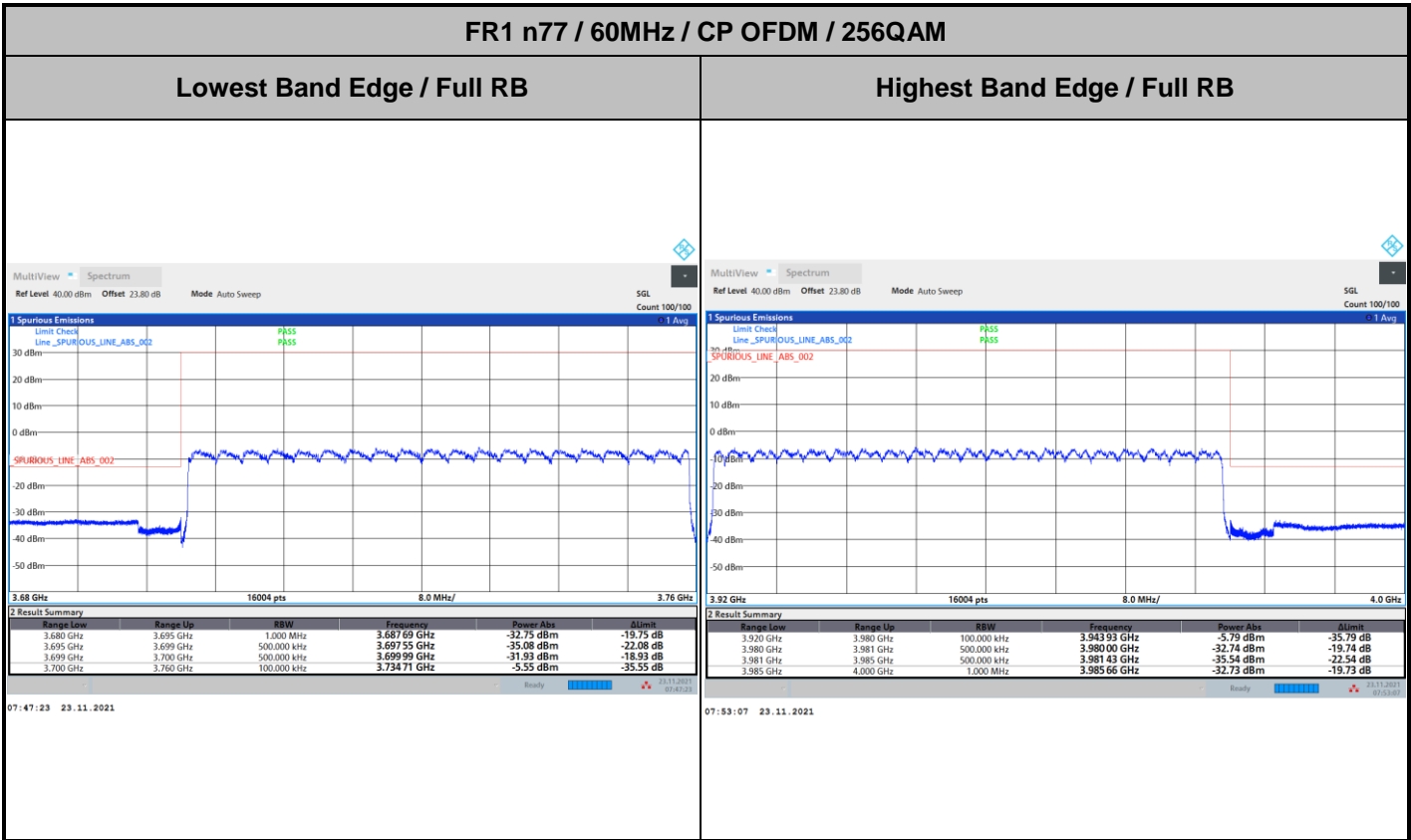
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -25.6dBm (PASS)





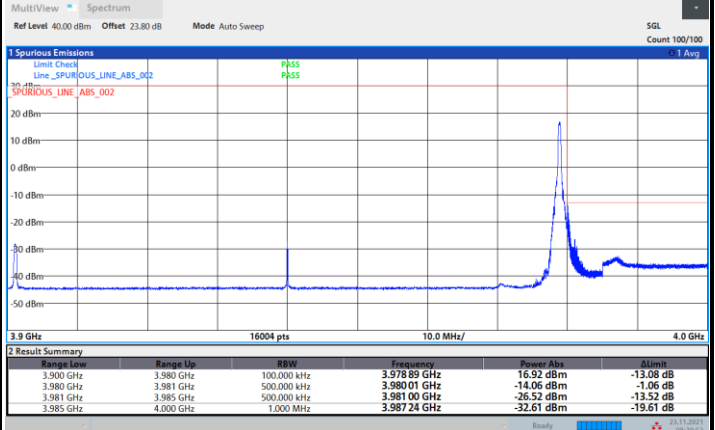
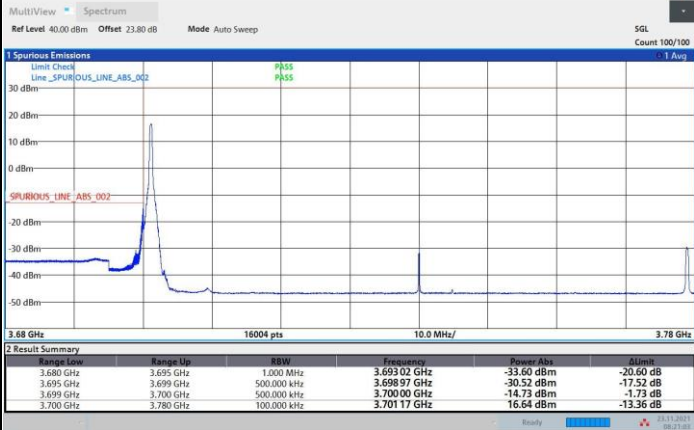




FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

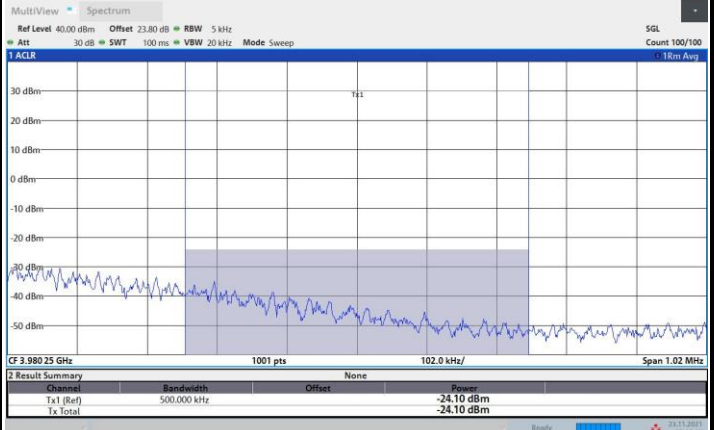
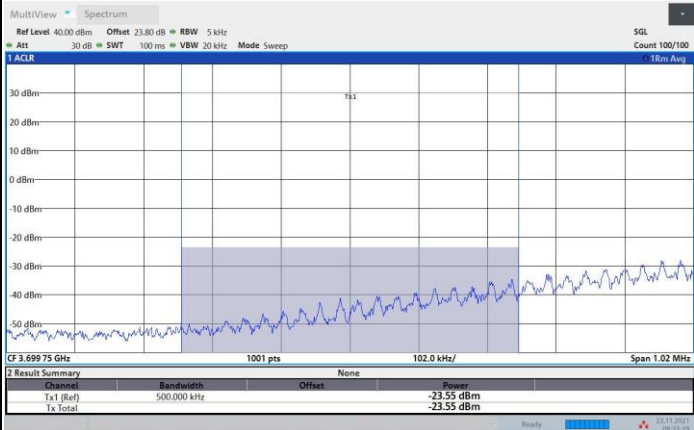


08:21:03 23.11.2021

08:39:54 23.11.2021

Channel power -13dBm > -23.55dBm (PASS)

Channel power -13dBm > -24.10dBm (PASS)



08:33:29 23.11.2021

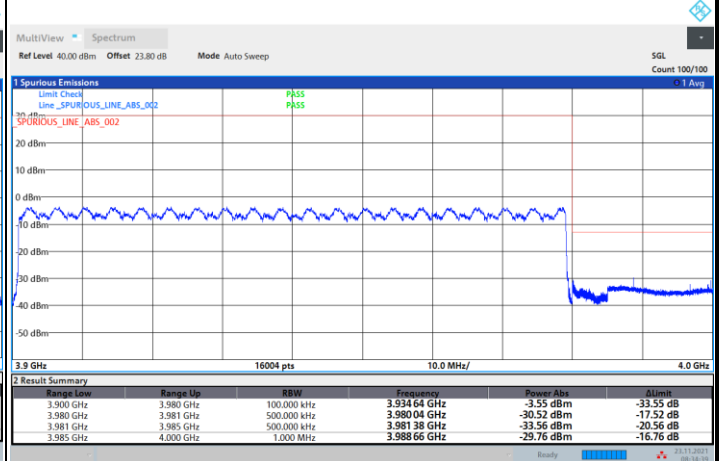
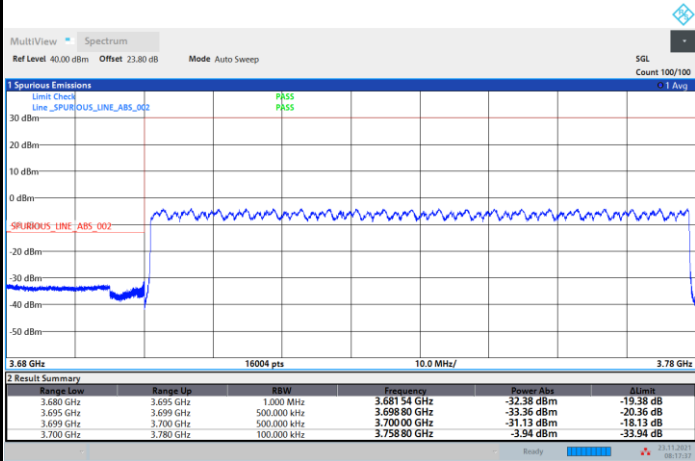
08:40:46 23.11.2021



FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

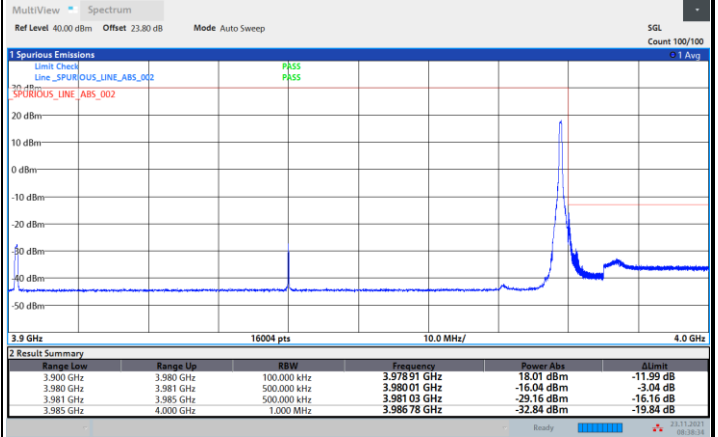
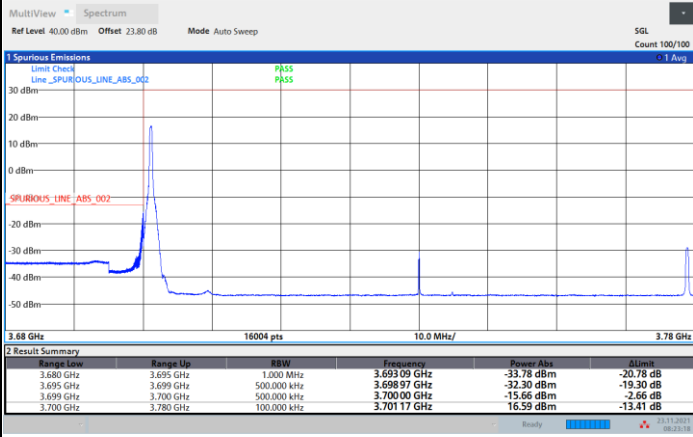




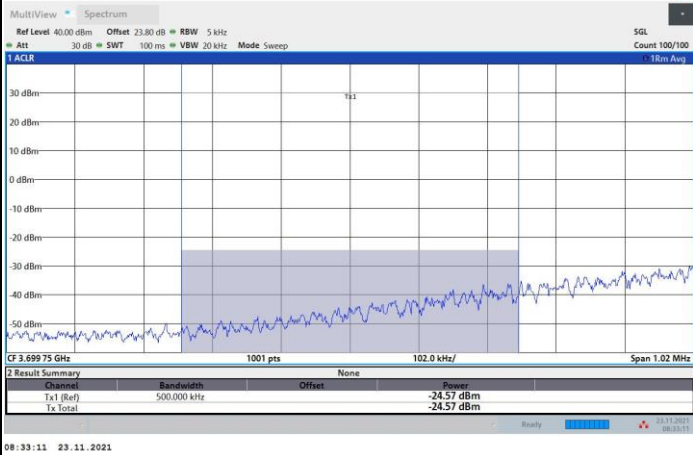
FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -24.57dBm (PASS)

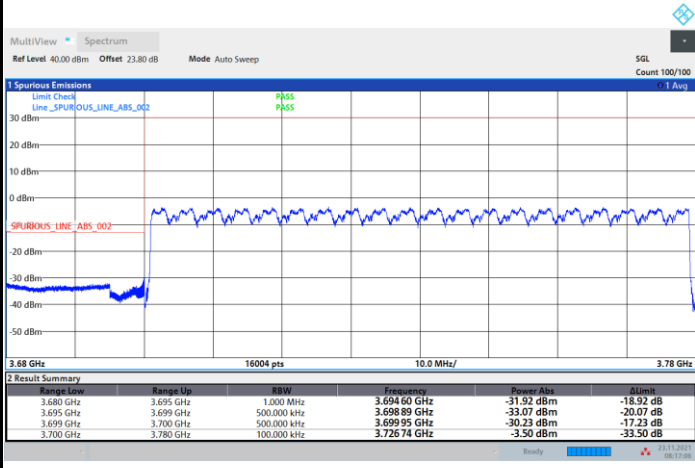




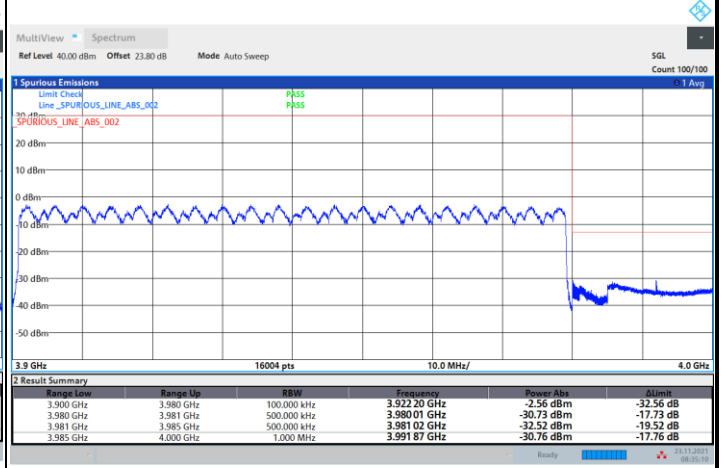
FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



08:17:07 23.11.2021



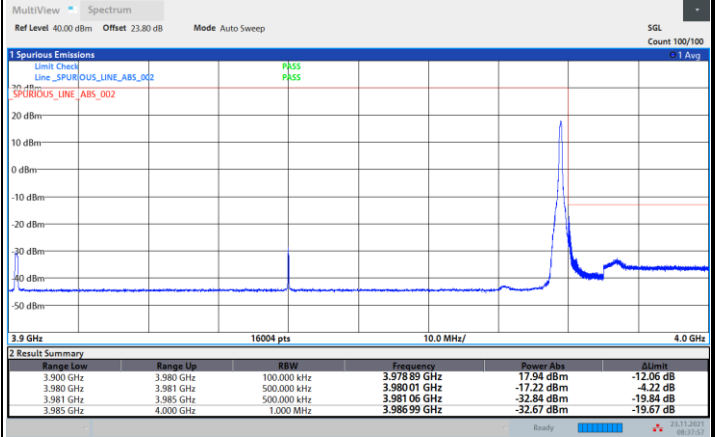
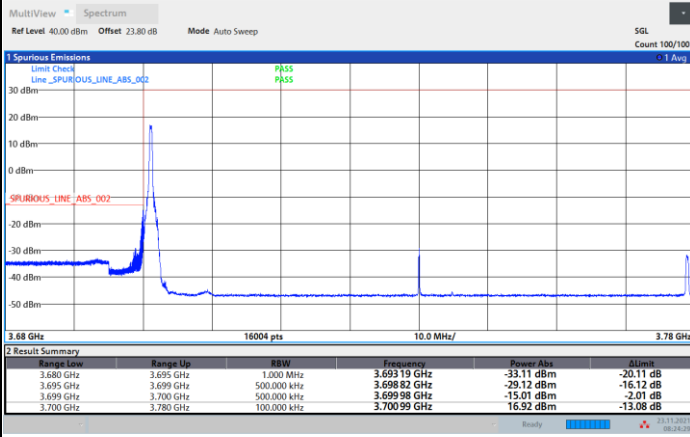
08:35:11 23.11.2021



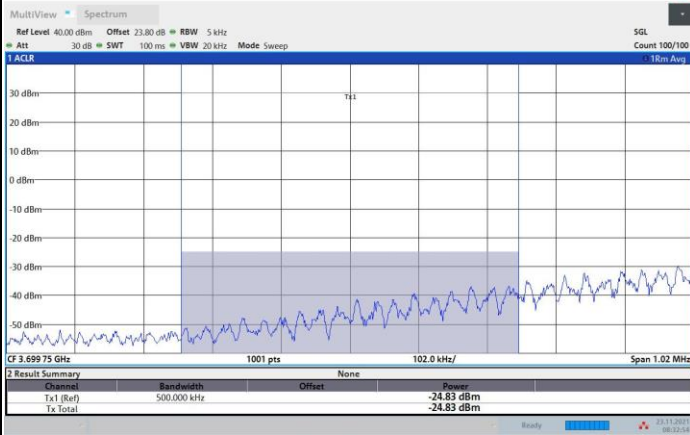
FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -24.83dBm (PASS)

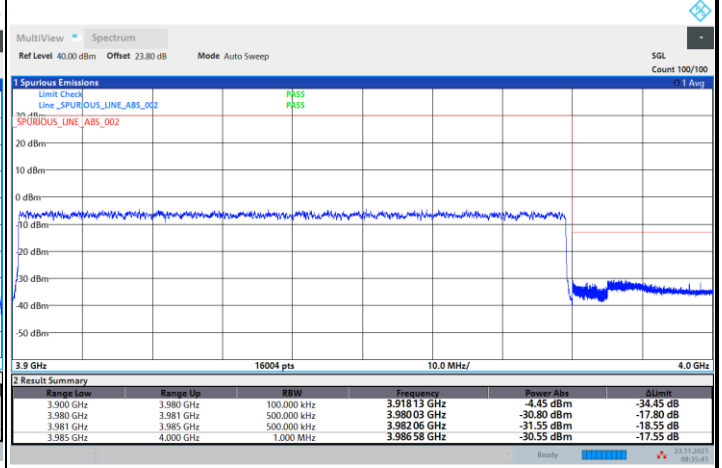
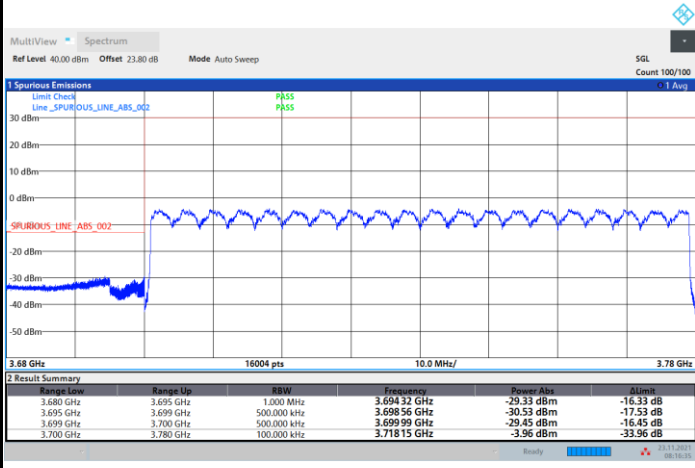




FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

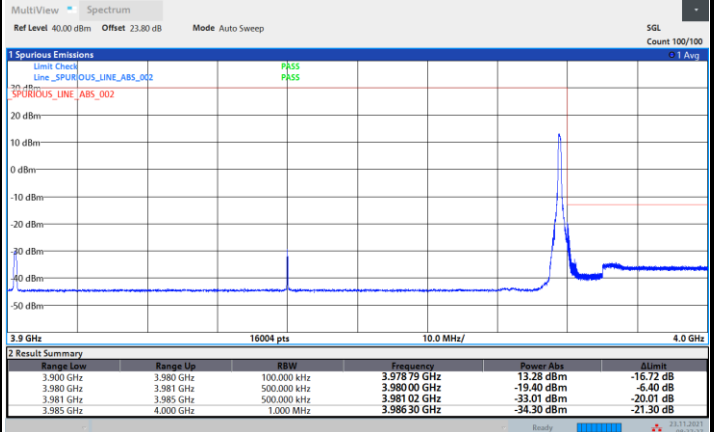
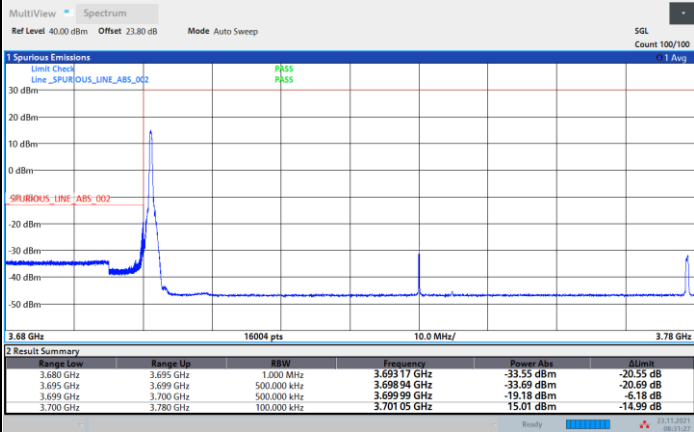




FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

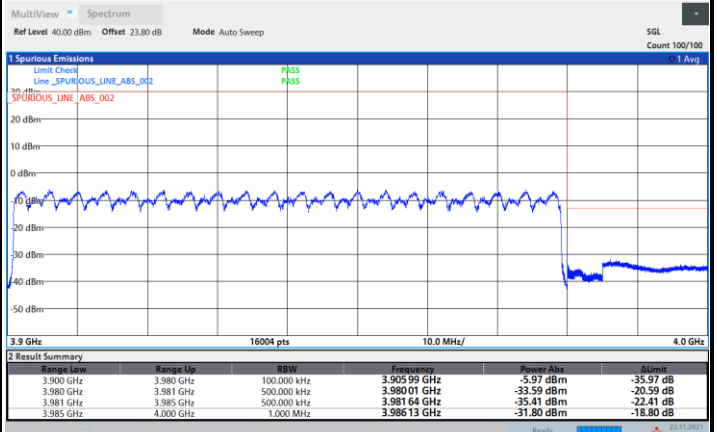
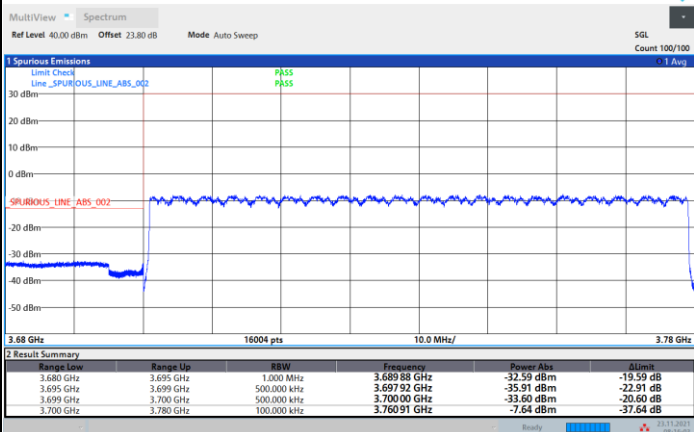


08:31:28 23.11.2021

08:37:28 23.11.2021

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



08:16:04 23.11.2021

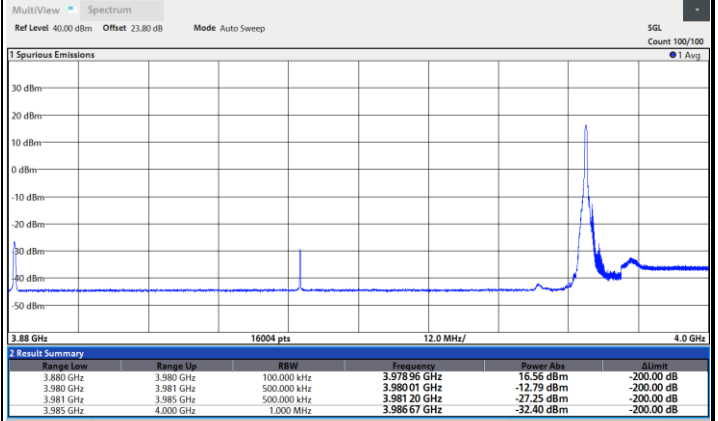
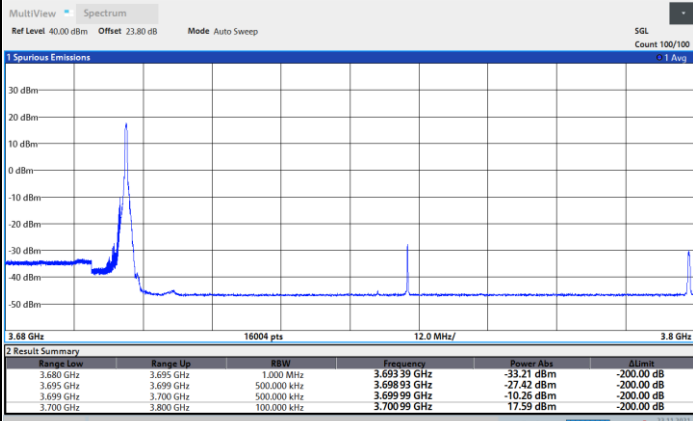
08:36:42 23.11.2021



FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

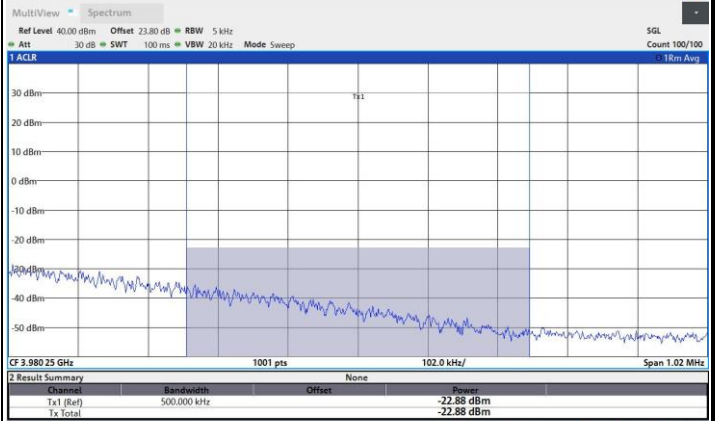
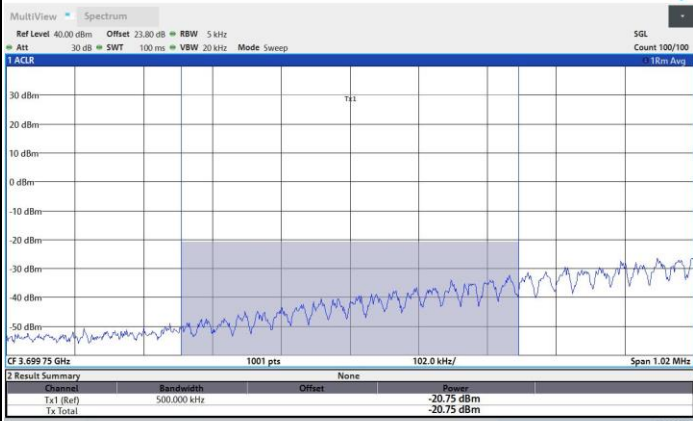


08:46:00 23.11.2021

08:51:32 23.11.2021

Channel power -13dBm > -20.75dBm (PASS)

Channel power -13dBm > -22.88dBm (PASS)



08:46:37 23.11.2021

08:54:15 23.11.2021

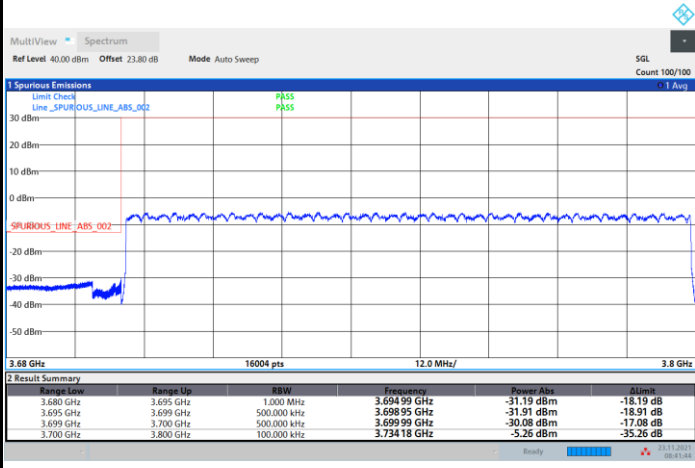




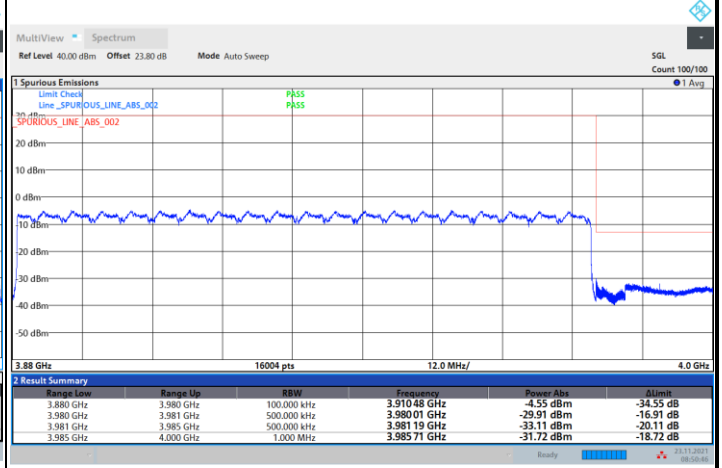
FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



08:41:45 23.11.2021



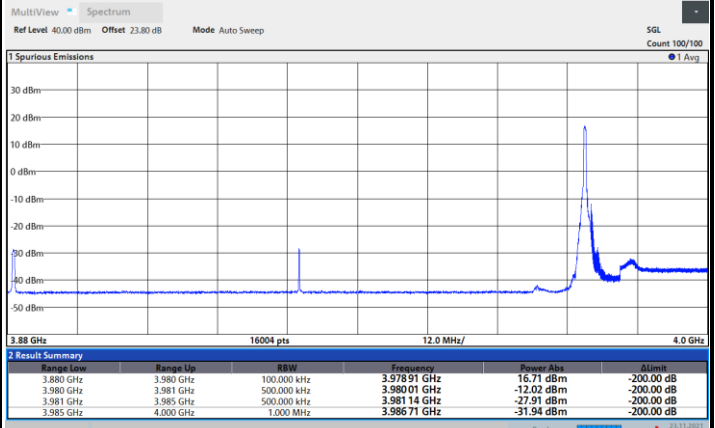
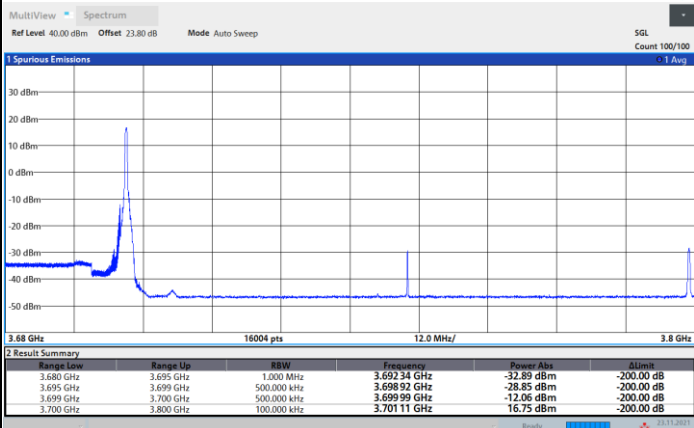
08:50:47 23.11.2021



FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

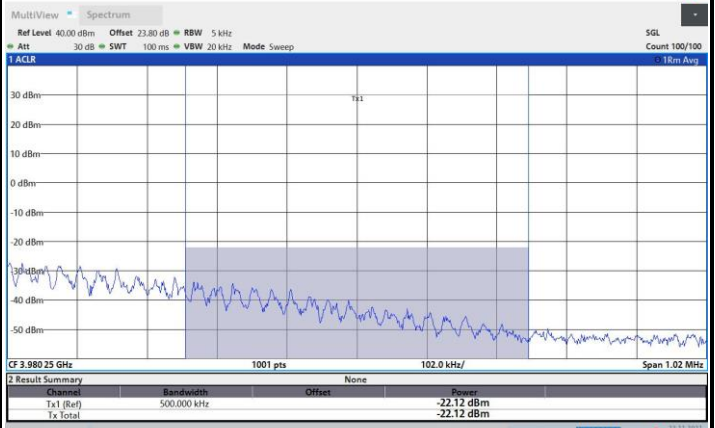
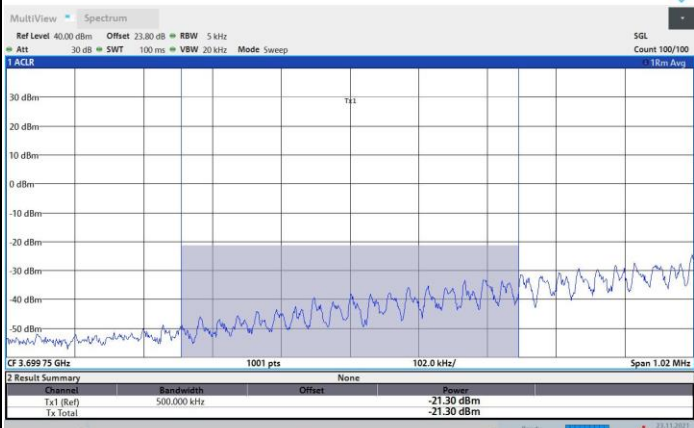


08:45:14 23.11.2021

08:52:16 23.11.2021

Channel power -13dBm > -21.30dBm (PASS)

Channel power -13dBm > -22.12dBm (PASS)



08:47:02 23.11.2021

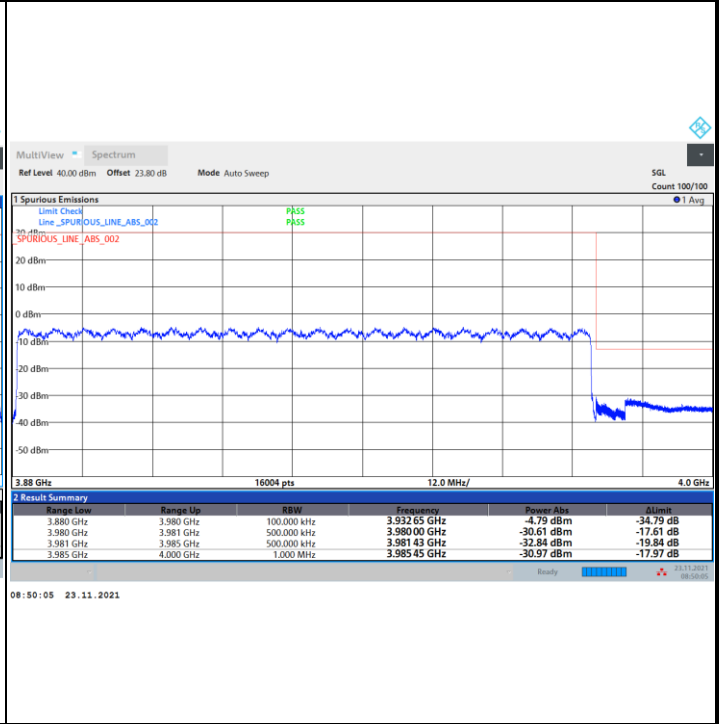
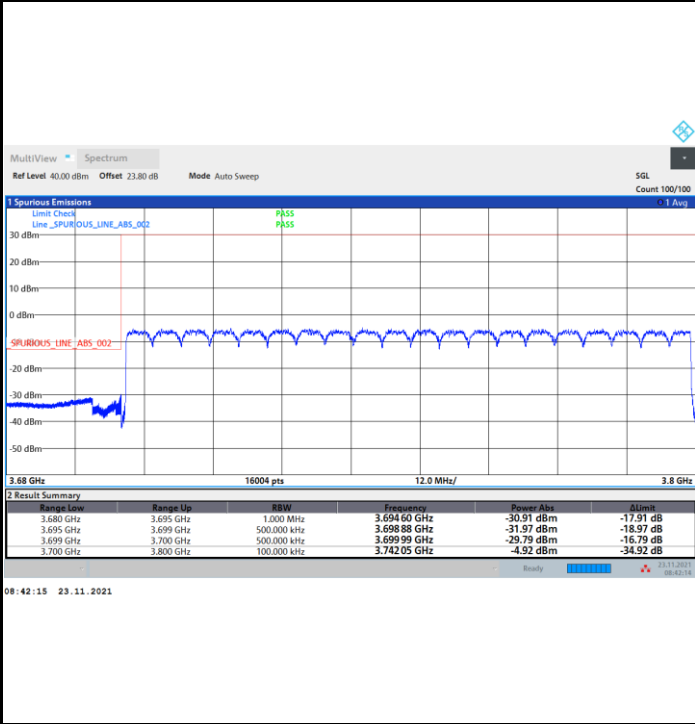
08:53:59 23.11.2021



FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

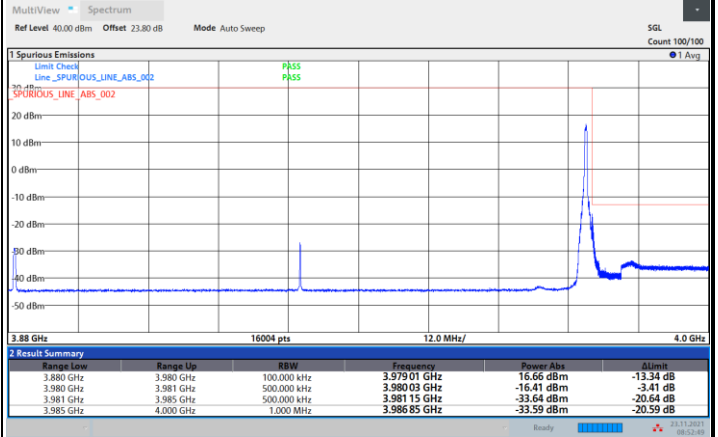
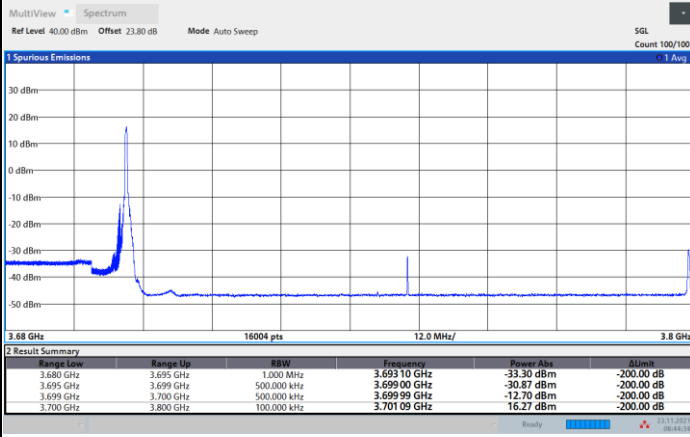




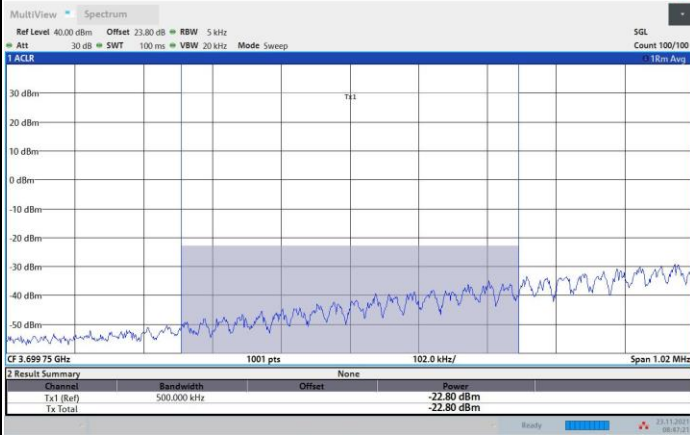
FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -22.80dBm (PASS)

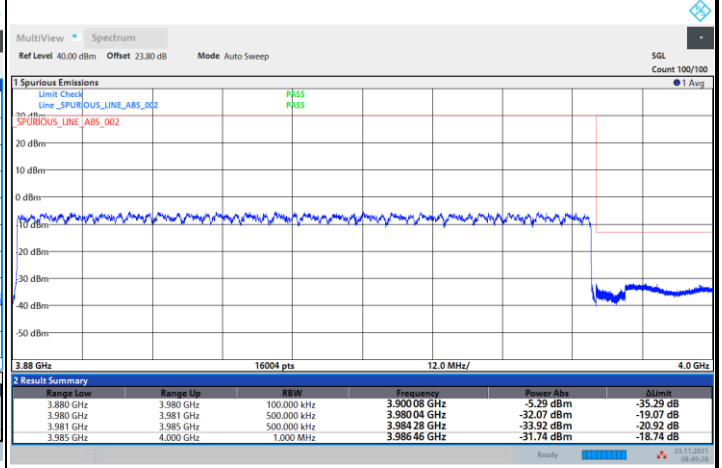
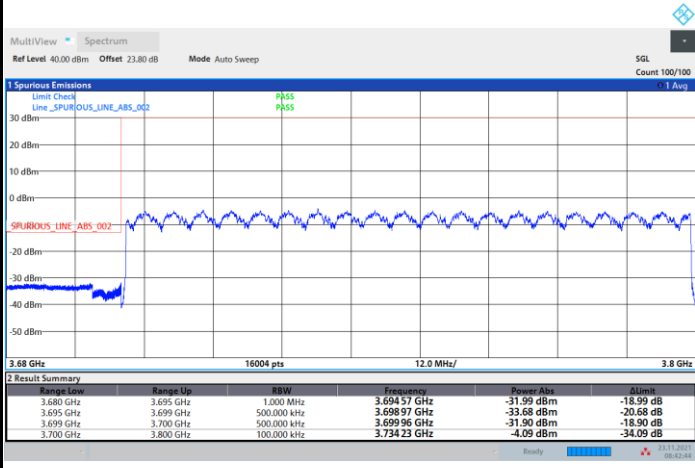




FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

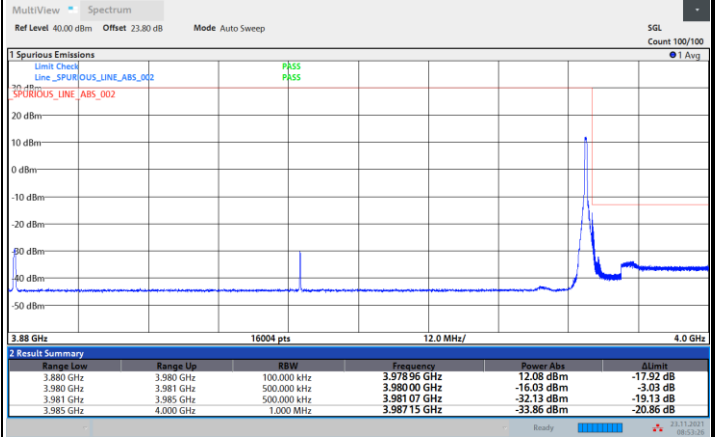
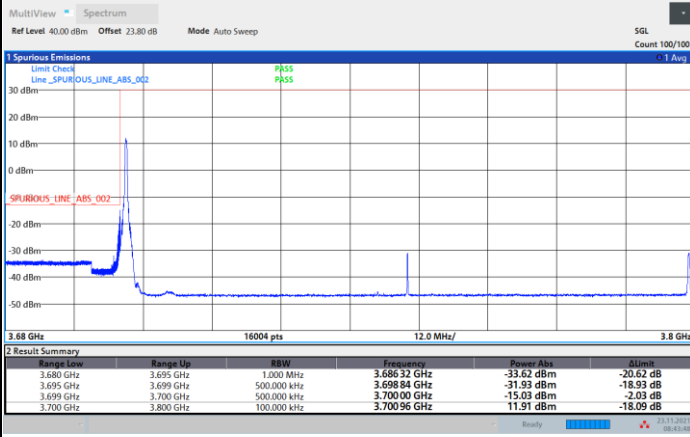




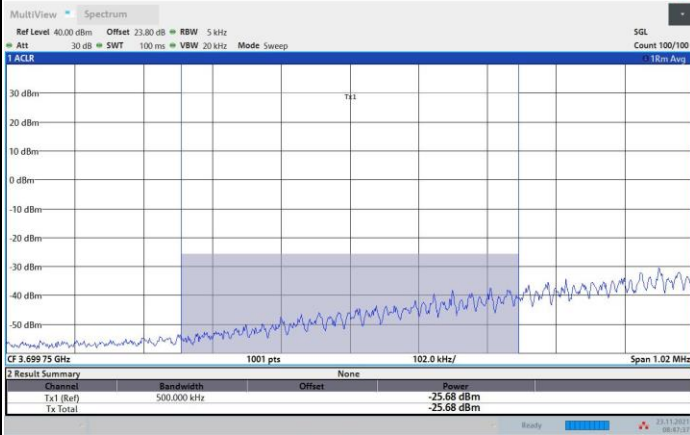
FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -25.68dBm (PASS)

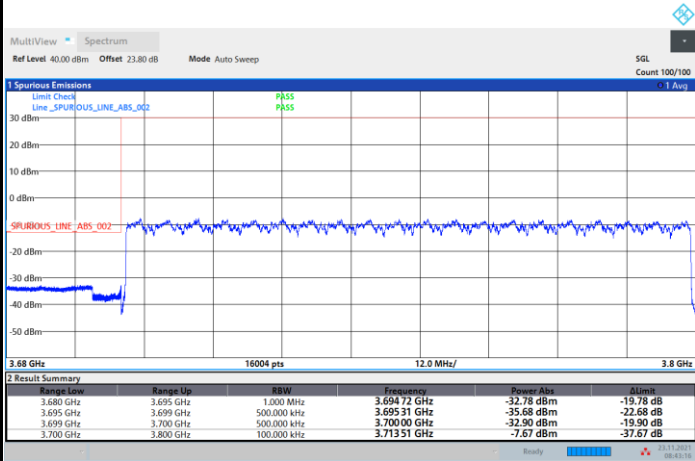




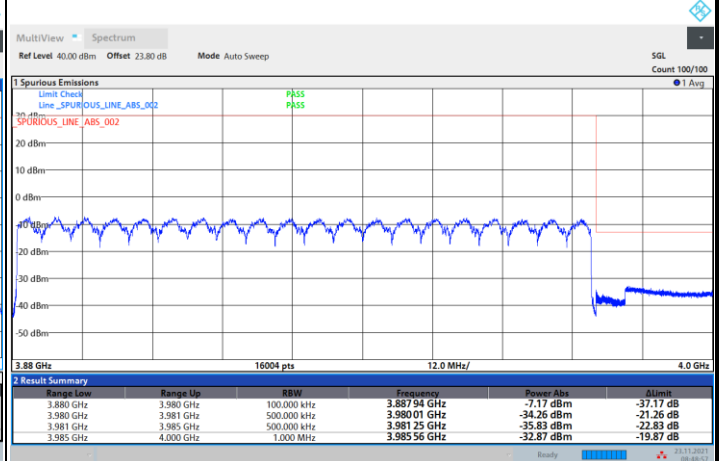
FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



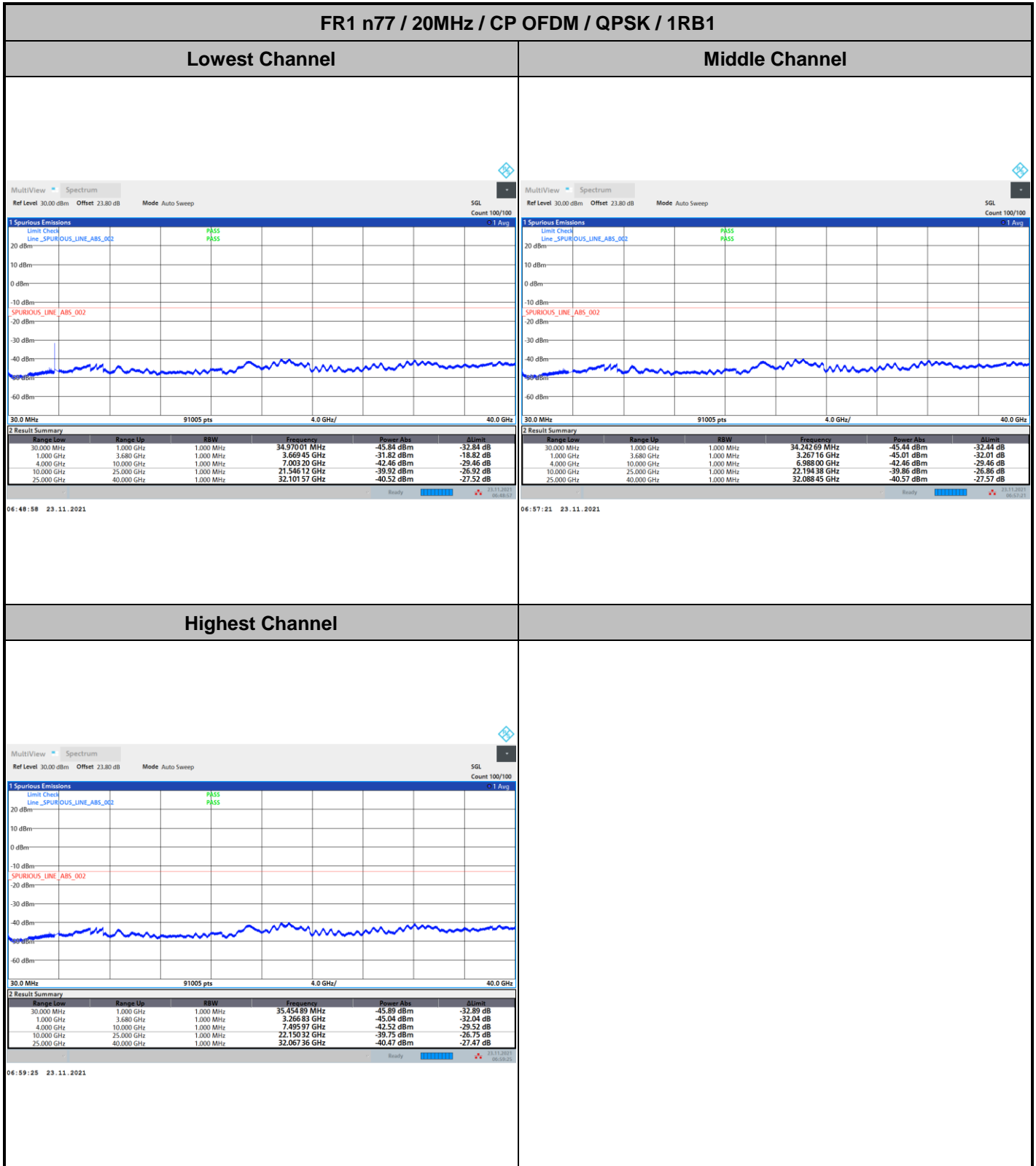
08:43:16 23.11.2021



08:48:57 23.11.2021



# Conducted Spurious Emission







### Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

**Note:**

- 1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.48 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



### Appendix B. Test Results of Radiated Test

<Ant. 0>

### 5G NR n77A HPUE

5G NR n77A_HPUE / 40MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7406	-44.54	-13	-31.54	-71.89	-51.70	1.94	11.25	H
	11107	-40.21	-13	-27.21	-71.9	-46.48	2.61	11.03	H
	14808	-33.67	-13	-20.67	-71.55	-40.57	2.94	11.99	H
	18510	-45.71	-13	-32.71	-64.1	-59.56	1.90	17.90	H
	22218	-54.33	-13	-41.33	-76.83	-68.95	2.04	18.81	H
	25914	-51.92	-13	-38.92	-78.03	-66.90	1.95	19.08	H
	7406	-44.64	-13	-31.64	-71.84	-51.80	1.94	11.25	V
	11107	-40.76	-13	-27.76	-72.28	-47.03	2.61	11.03	V
	14808	-35.27	-13	-22.27	-71.2	-42.17	2.94	11.99	V
	18510	-40.90	-13	-27.90	-58.43	-54.75	1.90	17.90	V
	22218	-54.00	-13	-41.00	-76.53	-68.62	2.04	18.81	V
	25914	-50.97	-13	-37.97	-78.18	-65.95	1.95	19.08	V
Middle	7645	-45.39	-13	-32.39	-71.79	-52.36	2.01	11.13	H
	11467	-39.28	-13	-26.28	-71.44	-46.14	2.45	11.46	H
	15289	-33.03	-13	-20.03	-70.96	-42.37	3.08	14.57	H
	19110	-44.18	-13	-31.18	-63.37	-58.25	1.79	18.01	H
	22933	-53.04	-13	-40.04	-77.23	-67.18	1.98	18.27	H
	26757	-50.33	-13	-37.33	-77.24	-64.71	2.22	18.75	H
	7645	-45.51	-13	-32.51	-71.81	-52.48	2.01	11.13	V
	11467	-39.75	-13	-26.75	-71.75	-46.61	2.45	11.46	V
	15289	-34.85	-13	-21.85	-71.23	-44.19	3.08	14.57	V
	19110	-49.19	-13	-36.19	-67.69	-63.26	1.79	18.01	V
	22933	-53.09	-13	-40.09	-77.31	-67.23	1.98	18.27	V
	26757	-48.79	-13	-35.79	-77.19	-63.17	2.22	18.75	V



Highest	7884	-45.07	-13	-32.07	-71.94	-52.05	2.04	11.18	H
	11826	-38.95	-13	-25.95	-71.67	-46.67	2.54	12.41	H
	15768	-32.87	-13	-19.87	-70.87	-44.55	3.08	16.91	H
	19709	-50.69	-13	-37.69	-70.4	-64.98	1.96	18.40	H
	23653	-51.99	-13	-38.99	-77.72	-65.87	1.97	18.00	H
	27590	-51.12	-13	-38.12	-77.62	-65.97	2.24	19.24	H
	7884	-45.61	-13	-32.61	-72.24	-52.59	2.04	11.18	V
	11826	-38.59	-13	-25.59	-71.69	-46.31	2.54	12.41	V
	15768	-32.92	-13	-19.92	-70.91	-44.60	3.08	16.91	V
	19709	-51.92	-13	-38.92	-71	-66.21	1.96	18.40	V
	23653	-52.82	-13	-39.82	-78.15	-66.70	1.97	18.00	V
	27590	-49.83	-13	-36.83	-77.63	-64.68	2.24	19.24	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Ant. 1>

**5G NR n77A HPUE**

5G NR n77A_HPUE / 40MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7406	-44.09	-13	-31.09	-71.45	-51.25	1.94	11.25	H
	11107	-39.98	-13	-26.98	-71.67	-46.25	2.61	11.03	H
	14808	-32.49	-13	-19.49	-70.37	-39.39	2.94	11.99	H
	18510	-54.54	-13	-41.54	-72.93	-68.39	1.90	17.90	H
	22218	-52.70	-13	-39.70	-75.19	-67.32	2.04	18.81	H
	25914	-50.77	-13	-37.77	-76.89	-65.75	1.95	19.08	H
	7406	-44.53	-13	-31.53	-71.74	-51.69	1.94	11.25	V
	11107	-38.89	-13	-25.89	-70.41	-45.16	2.61	11.03	V
	14808	-35.33	-13	-22.33	-71.26	-42.23	2.94	11.99	V
	18510	-55.43	-13	-42.43	-72.96	-69.28	1.90	17.90	V
	22218	-52.49	-13	-39.49	-75	-67.11	2.04	18.81	V
	25914	-49.33	-13	-36.33	-76.55	-64.31	1.95	19.08	V
Middle	7645	-44.88	-13	-31.88	-71.28	-51.85	2.01	11.13	H
	11467	-39.24	-13	-26.24	-71.4	-46.10	2.45	11.46	H
	15289	-32.79	-13	-19.79	-70.72	-42.13	3.08	14.57	H
	19110	-53.68	-13	-40.68	-72.87	-67.75	1.79	18.01	H
	22933	-51.37	-13	-38.37	-75.56	-65.51	1.98	18.27	H
	26757	-50.34	-13	-37.34	-77.25	-64.72	2.22	18.75	H
	7645	-45.14	-13	-32.14	-71.44	-52.11	2.01	11.13	V
	11467	-39.18	-13	-26.18	-71.18	-46.04	2.45	11.46	V
	15289	-34.29	-13	-21.29	-70.67	-43.63	3.08	14.57	V
	19110	-54.60	-13	-41.60	-73.1	-68.67	1.79	18.01	V
	22933	-51.48	-13	-38.48	-75.7	-65.62	1.98	18.27	V
	26757	-48.57	-13	-35.57	-76.97	-62.95	2.22	18.75	V



Highest	7884	-44.69	-13	-31.69	-71.56	-51.67	2.04	11.18	H
	11826	-38.64	-13	-25.64	-71.36	-46.36	2.54	12.41	H
	15768	-32.79	-13	-19.79	-70.79	-44.47	3.08	16.91	H
	19709	-54.70	-13	-41.70	-74.41	-68.99	1.96	18.40	H
	23653	-51.10	-13	-38.10	-76.12	-64.98	1.97	18.00	H
	27590	-50.91	-13	-37.91	-77.39	-65.76	2.24	19.24	H
	7884	-45.08	-13	-32.08	-71.72	-52.06	2.04	11.18	V
	11826	-38.58	-13	-25.58	-71.68	-46.30	2.54	12.41	V
	15768	-32.54	-13	-19.54	-70.54	-44.22	3.08	16.91	V
	19709	-55.81	-13	-42.81	-74.89	-70.10	1.96	18.40	V
	23653	-50.79	-13	-37.79	-76.12	-64.67	1.97	18.00	V
	27590	-49.30	-13	-36.30	-77.08	-64.15	2.24	19.24	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Ant. 2>

**5G NR n77A HPUE**

5G NR n77A_HPUE / 40MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7406	-45.04	-13	-32.04	-72.4	-52.20	1.94	11.25	H
	11107	-41.34	-13	-28.34	-73.03	-47.61	2.61	11.03	H
	14808	-33.82	-13	-20.82	-71.7	-40.72	2.94	11.99	H
	18510	-54.83	-13	-41.83	-73.22	-68.68	1.90	17.90	H
	22218	-52.82	-13	-39.82	-75.31	-67.44	2.04	18.81	H
	25914	-50.72	-13	-37.72	-76.84	-65.70	1.95	19.08	H
	7406	-44.90	-13	-31.90	-72.11	-52.06	1.94	11.25	V
	11107	-41.42	-13	-28.42	-72.94	-47.69	2.61	11.03	V
	14808	-35.67	-13	-22.67	-71.6	-42.57	2.94	11.99	V
	18510	-55.36	-13	-42.36	-72.89	-69.21	1.90	17.90	V
	22218	-52.32	-13	-39.32	-74.83	-66.94	2.04	18.81	V
	25914	-49.20	-13	-36.20	-76.42	-64.18	1.95	19.08	V
Middle	7645	-44.56	-13	-31.56	-71.96	-51.53	2.01	11.13	H
	11467	-40.48	-13	-27.48	-72.64	-47.34	2.45	11.46	H
	15289	-32.78	-13	-19.78	-70.71	-42.12	3.08	14.57	H
	19110	-54.42	-13	-41.42	-73.61	-68.49	1.79	18.01	H
	22933	-51.28	-13	-38.28	-75.47	-65.42	1.98	18.27	H
	26757	-50.23	-13	-37.23	-77.14	-64.61	2.22	18.75	H
	7645	-45.76	-13	-32.76	-72.06	-52.73	2.01	11.13	V
	11467	-40.38	-13	-27.38	-72.38	-47.24	2.45	11.46	V
	15289	-34.86	-13	-21.86	-71.24	-44.20	3.08	14.57	V
	19110	-53.94	-13	-40.94	-72.44	-68.01	1.79	18.01	V
	22933	-51.48	-13	-38.48	-75.7	-65.62	1.98	18.27	V
	26757	-48.33	-13	-35.33	-76.73	-62.71	2.22	18.75	V



Highest	7884	-45.39	-13	-32.39	-72.26	-52.37	2.04	11.18	H
	11826	-39.49	-13	-26.49	-72.21	-47.21	2.54	12.41	H
	15768	-32.88	-13	-19.88	-70.88	-44.56	3.08	16.91	H
	19709	-55.02	-13	-42.02	-74.73	-69.31	1.96	18.40	H
	23653	-50.83	-13	-37.83	-75.85	-64.71	1.97	18.00	H
	27590	-50.82	-13	-37.82	-77.3	-65.67	2.24	19.24	H
	7884	-45.42	-13	-32.42	-72.06	-52.40	2.04	11.18	V
	11826	-38.93	-13	-25.93	-72.03	-46.65	2.54	12.41	V
	15768	-32.80	-13	-19.80	-70.8	-44.48	3.08	16.91	V
	19709	-54.49	-13	-41.49	-73.57	-68.78	1.96	18.40	V
	23653	-50.46	-13	-37.46	-75.79	-64.34	1.97	18.00	V
	27590	-49.32	-13	-36.32	-77.1	-64.17	2.24	19.24	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Ant. 3>

**5G NR n77A HPUE**

5G NR n77A_HPUE / 40MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7406	-44.19	-13	-31.19	-71.55	-51.35	1.94	11.25	H
	11107	-40.48	-13	-27.48	-72.17	-46.75	2.61	11.03	H
	14808	-33.56	-13	-20.56	-71.44	-40.46	2.94	11.99	H
	18510	-53.73	-13	-40.73	-72.12	-67.58	1.90	17.90	H
	22218	-51.98	-13	-38.98	-74.48	-66.60	2.04	18.81	H
	25914	-50.03	-13	-37.03	-76.14	-65.01	1.95	19.08	H
	7406	-44.86	-13	-31.86	-72.07	-52.02	1.94	11.25	V
	11107	-40.32	-13	-27.32	-71.84	-46.59	2.61	11.03	V
	14808	-35.69	-13	-22.69	-71.62	-42.59	2.94	11.99	V
	18510	-55.17	-13	-42.17	-72.7	-69.02	1.90	17.90	V
	22218	-52.06	-13	-39.06	-74.59	-66.68	2.04	18.81	V
	25914	-49.05	-13	-36.05	-76.26	-64.03	1.95	19.08	V
Middle	7645	-45.45	-13	-32.45	-71.85	-52.42	2.01	11.13	H
	11467	-39.81	-13	-26.81	-71.97	-46.67	2.45	11.46	H
	15289	-33.30	-13	-20.30	-71.23	-42.64	3.08	14.57	H
	19110	-53.96	-13	-40.96	-73.15	-68.03	1.79	18.01	H
	22933	-51.03	-13	-38.03	-75.22	-65.17	1.98	18.27	H
	26757	-49.99	-13	-36.99	-76.9	-64.37	2.22	18.75	H
	7645	-45.57	-13	-32.57	-71.87	-52.54	2.01	11.13	V
	11467	-40.25	-13	-27.25	-72.25	-47.11	2.45	11.46	V
	15289	-34.61	-13	-21.61	-70.99	-43.95	3.08	14.57	V
	19110	-54.47	-13	-41.47	-72.97	-68.54	1.79	18.01	V
	22933	-51.07	-13	-38.07	-75.29	-65.21	1.98	18.27	V
	26757	-48.53	-13	-35.53	-76.93	-62.91	2.22	18.75	V





Highest	7884	-44.98	-13	-31.98	-71.85	-51.96	2.04	11.18	H
	11826	-38.57	-13	-25.57	-71.29	-46.29	2.54	12.41	H
	15768	-32.47	-13	-19.47	-70.47	-44.15	3.08	16.91	H
	19709	-53.40	-13	-40.40	-73.11	-67.69	1.96	18.40	H
	23653	-50.49	-13	-37.49	-75.51	-64.37	1.97	18.00	H
	27590	-50.77	-13	-37.77	-77.27	-65.62	2.24	19.24	H
	7884	-44.99	-13	-31.99	-71.63	-51.97	2.04	11.18	V
	11826	-38.78	-13	-25.78	-71.88	-46.50	2.54	12.41	V
	15768	-32.79	-13	-19.79	-70.79	-44.47	3.08	16.91	V
	19709	-52.82	-13	-39.82	-71.9	-67.11	1.96	18.40	V
	23653	-50.16	-13	-37.16	-75.49	-64.04	1.97	18.00	V
	27590	-49.20	-13	-36.20	-77	-64.05	2.24	19.24	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Ant. 1 + Ant. 0>

**EN-DC 2A-n77A**

EN-DC 2A-n77A / 20MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	7884	-44.73	-13	-31.73	-71.6	-51.71	2.04	11.18	H
	11826	-38.48	-13	-25.48	-71.2	-46.20	2.54	12.41	H
	15768	-32.29	-13	-19.29	-70.29	-43.97	3.08	16.91	H
	19709	-55.00	-13	-42.00	-74.71	-69.29	1.96	18.40	H
	23653	-51.47	-13	-38.47	-76.49	-65.35	1.97	18.00	H
	27590	-50.87	-13	-37.87	-77.35	-65.72	2.24	19.24	H
	7884	-44.93	-13	-31.93	-71.57	-51.91	2.04	11.18	V
	11826	-37.76	-13	-24.76	-70.86	-45.48	2.54	12.41	V
	15768	-32.66	-13	-19.66	-70.66	-44.34	3.08	16.91	V
	19709	-53.66	-13	-40.66	-72.74	-67.95	1.96	18.40	V
	23653	-50.75	-13	-37.75	-76.08	-64.63	1.97	18.00	V
	27590	-49.45	-13	-36.45	-77.23	-64.30	2.24	19.24	V

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**EN-DC 66A-n77A**

EN-DC 66A-n77A / 20MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	7884	-45.06	-13	-32.06	-71.93	-52.04	2.04	11.18	H
	11826	-38.72	-13	-25.72	-71.44	-46.44	2.54	12.41	H
	15768	-32.77	-13	-19.77	-70.77	-44.45	3.08	16.91	H
	19709	-55.36	-13	-42.36	-75.07	-69.65	1.96	18.40	H
	23653	-51.30	-13	-38.30	-76.32	-65.18	1.97	18.00	H
	27590	-51.09	-13	-38.09	-77.57	-65.94	2.24	19.24	H
	7884	-45.03	-13	-32.03	-71.67	-52.01	2.04	11.18	V
	11826	-38.33	-13	-25.33	-71.43	-46.05	2.54	12.41	V
	15768	-32.72	-13	-19.72	-70.72	-44.40	3.08	16.91	V
	19709	-53.99	-13	-40.99	-73.07	-68.28	1.96	18.40	V
	23653	-51.18	-13	-38.18	-76.51	-65.06	1.97	18.00	V
	27590	-49.80	-13	-36.80	-77.58	-64.65	2.24	19.24	V

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Ant. 0 + Ant. 1>

**EN-DC 5A-n77A**

EN-DC 5A-n77A / 20MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7406	-44.56	-13	-31.56	-71.92	-51.72	1.94	11.25	H
	11107	-40.30	-13	-27.30	-71.99	-46.57	2.61	11.03	H
	14808	-33.55	-13	-20.55	-71.43	-40.45	2.94	11.99	H
	18510	-53.07	-13	-40.07	-71.46	-66.92	1.90	17.90	H
	22218	-53.08	-13	-40.08	-75.57	-67.70	2.04	18.81	H
	25914	-50.60	-13	-37.60	-76.72	-65.58	1.95	19.08	H
	7406	-44.46	-13	-31.46	-71.67	-51.62	1.94	11.25	V
	11107	-37.91	-13	-24.91	-69.43	-44.18	2.61	11.03	V
	14808	-35.24	-13	-22.24	-71.17	-42.14	2.94	11.99	V
	18510	-52.34	-13	-39.34	-69.87	-66.19	1.90	17.90	V
	22218	-52.77	-13	-39.77	-75.28	-67.39	2.04	18.81	V
	25914	-49.48	-13	-36.48	-76.7	-64.46	1.95	19.08	V

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**EN-DC 13A-n77A**

EN-DC 13A-n77A / 20MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7406	-44.56	-13	-31.56	-71.92	-51.72	1.94	11.25	H
	11107	-40.27	-13	-27.27	-71.96	-46.54	2.61	11.03	H
	14808	-33.79	-13	-20.79	-71.67	-40.69	2.94	11.99	H
	18510	-54.06	-13	-41.06	-72.45	-67.91	1.90	17.90	H
	22218	-53.14	-13	-40.14	-75.63	-67.76	2.04	18.81	H
	25914	-51.51	-13	-38.51	-77.63	-66.49	1.95	19.08	H
	7406	-44.46	-13	-31.46	-71.67	-51.62	1.94	11.25	V
	11107	-40.52	-13	-27.52	-72.04	-46.79	2.61	11.03	V
	14808	-35.66	-13	-22.66	-71.59	-42.56	2.94	11.99	V
	18510	-52.25	-13	-39.25	-69.78	-66.10	1.90	17.90	V
	22218	-52.74	-13	-39.74	-75.25	-67.36	2.04	18.81	V
	25914	-49.32	-13	-36.32	-76.54	-64.30	1.95	19.08	V

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



MIMO <Ant. 0+1>

**5G NR n77A HPUE**

5G NR n77A_HPUE / 30MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7401	-41.23	-13	-28.23	-68.62	-48.40	1.94	11.26	H
	11107	-39.22	-13	-26.22	-70.91	-45.49	2.61	11.03	H
	14808	-33.38	-13	-20.38	-71.26	-40.28	2.94	11.99	H
	18510	-48.99	-13	-35.99	-67.38	-62.84	1.90	17.90	H
	22210	-53.72	-13	-40.72	-76.18	-68.34	2.05	18.82	H
	25914	-51.44	-13	-38.44	-77.55	-66.42	1.95	19.08	H
	7401	-39.95	-13	-26.95	-67.18	-47.12	1.94	11.26	V
	11107	-33.77	-13	-20.77	-65.29	-40.04	2.61	11.03	V
	14808	-35.22	-13	-22.22	-71.15	-42.12	2.94	11.99	V
	18510	-53.43	-13	-40.43	-70.96	-67.28	1.90	17.90	V
	22210	-54.14	-13	-41.14	-76.63	-68.76	2.05	18.82	V
	25914	-50.39	-13	-37.39	-77.6	-65.37	1.95	19.08	V
Middle	7653	-41.53	-13	-28.53	-67.95	-48.50	2.01	11.13	H
	11480	-37.97	-13	-24.97	-70.14	-44.85	2.45	11.48	H
	15306	-33.25	-13	-20.25	-71.14	-42.70	3.08	14.68	H
	19132	-41.71	-13	-28.71	-60.9	-55.79	1.80	18.03	H
	22961	-52.62	-13	-39.62	-76.83	-66.73	1.98	18.24	H
	26787	-50.04	-13	-37.04	-76.91	-64.44	2.19	18.74	H
	7653	-45.17	-13	-32.17	-71.47	-52.14	2.01	11.13	V
	11480	-38.20	-13	-25.20	-70.22	-45.08	2.45	11.48	V
	15306	-34.85	-13	-21.85	-71.25	-44.30	3.08	14.68	V
	19132	-44.17	-13	-31.17	-62.67	-58.25	1.80	18.03	V
	22961	-52.68	-13	-39.68	-76.92	-66.79	1.98	18.24	V
	26787	-48.88	-13	-35.88	-77.24	-63.28	2.19	18.74	V



Highest	7905	-42.01	-13	-29.01	-68.99	-48.99	2.05	11.18	H
	11853	-36.63	-13	-23.63	-69.4	-44.42	2.55	12.49	H
	15810	-32.88	-13	-19.88	-70.96	-44.71	3.07	17.05	H
	19753	-52.61	-13	-39.61	-72.43	-66.92	1.94	18.40	H
	23705	-51.46	-13	-38.46	-76.48	-65.34	1.97	18.00	H
	27662	-50.82	-13	-37.82	-77.19	-65.67	2.26	19.26	H
	7905	-41.09	-13	-28.09	-67.84	-48.07	2.05	11.18	V
	11853	-32.04	-13	-19.04	-65.24	-39.83	2.55	12.49	V
	15810	-33.07	-13	-20.07	-71.27	-44.90	3.07	17.05	V
	19753	-54.39	-13	-41.39	-73.59	-68.70	1.94	18.40	V
	23705	-51.50	-13	-38.50	-76.87	-65.38	1.97	18.00	V
	27662	-49.38	-13	-36.38	-77.06	-64.23	2.26	19.26	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



MIMO <Ant. 2+1>

**5G NR n77A HPUE**

5G NR n77A_HPUE / 30MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7401	-44.27	-13	-31.27	-71.63	-51.44	1.94	11.26	H
	11107	-40.30	-13	-27.30	-71.98	-46.57	2.61	11.03	H
	14808	-33.67	-13	-20.67	-71.54	-40.57	2.94	11.99	H
	18510	-54.04	-13	-41.04	-72.43	-67.89	1.90	17.90	H
	22210	-52.42	-13	-39.42	-74.88	-67.04	2.05	18.82	H
	25914	-50.32	-13	-37.32	-76.43	-65.30	1.95	19.08	H
	7401	-44.01	-13	-31.01	-71.22	-51.18	1.94	11.26	V
	11107	-40.40	-13	-27.40	-71.92	-46.67	2.61	11.03	V
	14808	-35.43	-13	-22.43	-71.36	-42.33	2.94	11.99	V
	18510	-54.98	-13	-41.98	-72.51	-68.83	1.90	17.90	V
	22210	-52.20	-13	-39.20	-74.69	-66.82	2.05	18.82	V
	25914	-49.00	-13	-36.00	-76.21	-63.98	1.95	19.08	V
Middle	7653	-44.89	-13	-31.89	-71.31	-51.86	2.01	11.13	H
	11480	-39.30	-13	-26.30	-71.47	-46.18	2.45	11.48	H
	15306	-32.82	-13	-19.82	-70.7	-42.27	3.08	14.68	H
	19132	-54.13	-13	-41.13	-73.32	-68.21	1.80	18.03	H
	22961	-51.05	-13	-38.05	-75.26	-65.16	1.98	18.24	H
	26791	-50.08	-13	-37.08	-76.95	-64.48	2.19	18.74	H
	7653	-44.15	-13	-31.15	-70.45	-51.12	2.01	11.13	V
	11480	-39.30	-13	-26.30	-71.32	-46.18	2.45	11.48	V
	15306	-34.35	-13	-21.35	-70.75	-43.80	3.08	14.68	V
	19132	-54.57	-13	-41.57	-73.07	-68.65	1.80	18.03	V
	22961	-50.97	-13	-37.97	-75.21	-65.08	1.98	18.24	V
	26791	-48.19	-13	-35.19	-76.55	-62.59	2.19	18.74	V





Highest	7905	-44.96	-13	-31.96	-71.93	-51.94	2.05	11.18	H
	11853	-38.86	-13	-25.86	-71.63	-46.65	2.55	12.49	H
	15810	-32.99	-13	-19.99	-71.06	-44.82	3.07	17.05	H
	19753	-47.27	-13	-34.27	-67.09	-61.58	1.94	18.40	H
	23705	-50.11	-13	-37.11	-75.13	-63.99	1.97	18.00	H
	27662	-50.57	-13	-37.57	-76.94	-65.42	2.26	19.26	H
	7905	-45.19	-13	-32.19	-71.94	-52.17	2.05	11.18	V
	11853	-38.54	-13	-25.54	-71.74	-46.33	2.55	12.49	V
	15810	-32.75	-13	-19.75	-70.93	-44.58	3.07	17.05	V
	19753	-46.81	-13	-33.81	-66.01	-61.12	1.94	18.40	V
	23705	-49.95	-13	-36.95	-75.32	-63.83	1.97	18.00	V
	27662	-49.27	-13	-36.27	-76.95	-64.12	2.26	19.26	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



MIMO <Ant. 0+3>

**5G NR n77A HPUE**

5G NR n77A_HPUE / 30MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7401	-44.49	-13	-31.49	-71.85	-51.66	1.94	11.26	H
	11107	-40.64	-13	-27.64	-72.32	-46.91	2.61	11.03	H
	14808	-33.84	-13	-20.84	-71.71	-40.74	2.94	11.99	H
	18510	-48.79	-13	-35.79	-67.18	-62.64	1.90	17.90	H
	22210	-52.18	-13	-39.18	-74.64	-66.80	2.05	18.82	H
	25914	-50.22	-13	-37.22	-76.33	-65.20	1.95	19.08	H
	7401	-44.89	-13	-31.89	-72.1	-52.06	1.94	11.26	V
	11107	-40.77	-13	-27.77	-72.29	-47.04	2.61	11.03	V
	14808	-35.65	-13	-22.65	-71.58	-42.55	2.94	11.99	V
	18510	-54.47	-13	-41.47	-72	-68.32	1.90	17.90	V
	22210	-52.57	-13	-39.57	-75.06	-67.19	2.05	18.82	V
	25914	-49.01	-13	-36.01	-76.22	-63.99	1.95	19.08	V
Middle	7653	-45.48	-13	-32.48	-71.9	-52.45	2.01	11.13	H
	11480	-39.72	-13	-26.72	-71.89	-46.60	2.45	11.48	H
	15306	-33.52	-13	-20.52	-71.4	-42.97	3.08	14.68	H
	19132	-45.03	-13	-32.03	-64.22	-59.11	1.80	18.03	H
	22961	-50.47	-13	-37.47	-74.68	-64.58	1.98	18.24	H
	26787	-49.99	-13	-36.99	-76.86	-64.39	2.19	18.74	H
	7653	-45.66	-13	-32.66	-71.96	-52.63	2.01	11.13	V
	11480	-39.80	-13	-26.80	-71.82	-46.68	2.45	11.48	V
	15306	-35.05	-13	-22.05	-71.45	-44.50	3.08	14.68	V
	19132	-45.91	-13	-32.91	-64.41	-59.99	1.80	18.03	V
	22961	-51.23	-13	-38.23	-75.47	-65.34	1.98	18.24	V
	26787	-48.63	-13	-35.63	-76.99	-63.03	2.19	18.74	V



Highest	7905	-44.82	-13	-31.82	-71.79	-51.80	2.05	11.18	H
	11853	-38.78	-13	-25.78	-71.55	-46.57	2.55	12.49	H
	15810	-33.33	-13	-20.33	-71.4	-45.16	3.07	17.05	H
	19753	-45.19	-13	-32.19	-65.01	-59.50	1.94	18.40	H
	23705	-50.28	-13	-37.28	-75.3	-64.16	1.97	18.00	H
	27662	-50.81	-13	-37.81	-77.18	-65.66	2.26	19.26	H
	7905	-45.02	-13	-32.02	-71.77	-52.00	2.05	11.18	V
	11853	-38.29	-13	-25.29	-71.49	-46.08	2.55	12.49	V
	15810	-33.04	-13	-20.04	-71.22	-44.87	3.07	17.05	V
	19753	-54.51	-13	-41.51	-73.71	-68.82	1.94	18.40	V
	23705	-49.60	-13	-36.60	-74.97	-63.48	1.97	18.00	V
	27662	-49.12	-13	-36.12	-76.8	-63.97	2.26	19.26	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



MIMO <Ant. 2+3>

5G NR n77A HPUE

5G NR n77A_HPUE / 30MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7401	-44.71	-13	-31.71	-72.07	-51.88	1.94	11.26	H
	11107	-40.99	-13	-27.99	-72.67	-47.26	2.61	11.03	H
	14808	-33.42	-13	-20.42	-71.29	-40.32	2.94	11.99	H
	18510	-34.64	-13	-21.64	-53.03	-48.49	1.90	17.90	H
	22210	-52.66	-13	-39.66	-75.13	-67.28	2.05	18.82	H
	25914	-44.44	-13	-31.44	-70.55	-59.42	1.95	19.08	H
	7401	-44.97	-13	-31.97	-72.18	-52.14	1.94	11.26	V
	11107	-41.67	-13	-28.67	-73.19	-47.94	2.61	11.03	V
	14808	-35.52	-13	-22.52	-71.45	-42.42	2.94	11.99	V
	18510	-38.75	-13	-25.75	-56.28	-52.60	1.90	17.90	V
	22210	-51.98	-13	-38.98	-74.46	-66.60	2.05	18.82	V
	25914	-48.98	-13	-35.98	-76.19	-63.96	1.95	19.08	V
Middle	7653	-45.68	-13	-32.68	-72.1	-52.65	2.01	11.13	H
	11480	-40.30	-13	-27.30	-72.47	-47.18	2.45	11.48	H
	15306	-33.21	-13	-20.21	-71.09	-42.66	3.08	14.68	H
	19132	-46.57	-13	-33.57	-65.76	-60.65	1.80	18.03	H
	22961	-50.24	-13	-37.24	-74.45	-64.35	1.98	18.24	H
	26787	-50.23	-13	-37.23	-77.1	-64.63	2.19	18.74	H
	7653	-45.43	-13	-32.43	-71.73	-52.40	2.01	11.13	V
	11480	-40.81	-13	-27.81	-72.83	-47.69	2.45	11.48	V
	15306	-33.21	-13	-20.21	-71.09	-42.66	3.08	14.68	V
	19132	-47.72	-13	-34.72	-66.22	-61.80	1.80	18.03	V
	22961	-51.16	-13	-38.16	-75.4	-65.27	1.98	18.24	V
	26787	-48.36	-13	-35.36	-76.72	-62.76	2.19	18.74	V



Highest	7905	-45.00	-13	-32.00	-71.97	-51.98	2.05	11.18	H
	11853	-39.25	-13	-26.25	-72.02	-47.04	2.55	12.49	H
	15810	-33.42	-13	-20.42	-71.49	-45.25	3.07	17.05	H
	19753	-46.12	-13	-33.12	-65.94	-60.43	1.94	18.40	H
	23705	-50.54	-13	-37.54	-75.56	-64.42	1.97	18.00	H
	27662	-50.06	-13	-37.06	-76.43	-64.91	2.26	19.26	H
	7905	-45.30	-13	-32.30	-72.05	-52.28	2.05	11.18	V
	11853	-38.72	-13	-25.72	-71.92	-46.51	2.55	12.49	V
	15810	-33.08	-13	-20.08	-71.26	-44.91	3.07	17.05	V
	19753	-43.26	-13	-30.26	-62.46	-57.57	1.94	18.40	V
	23705	-50.32	-13	-37.32	-75.69	-64.20	1.97	18.00	V
	27662	-49.16	-13	-36.16	-76.84	-64.01	2.26	19.26	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

————THE END————