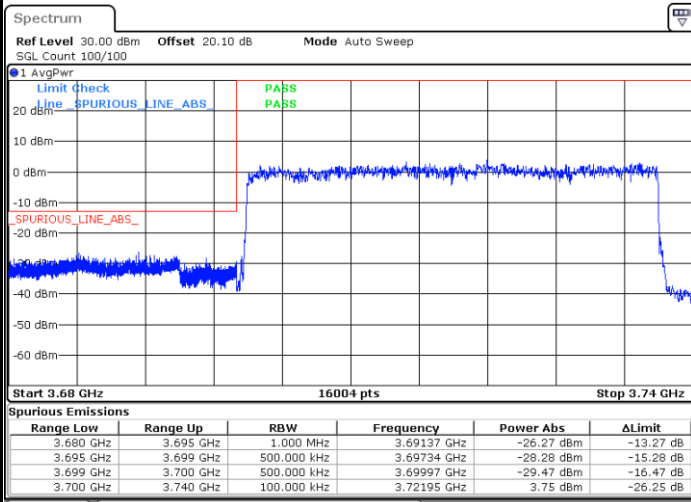




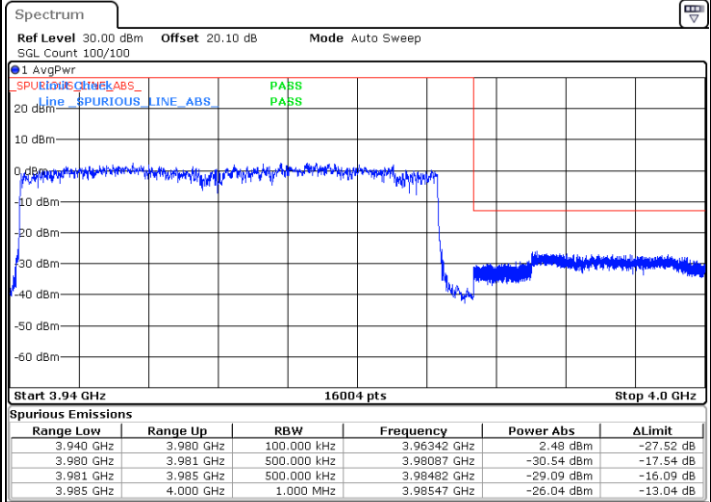
FR1 n77 / 40MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 13:39:46

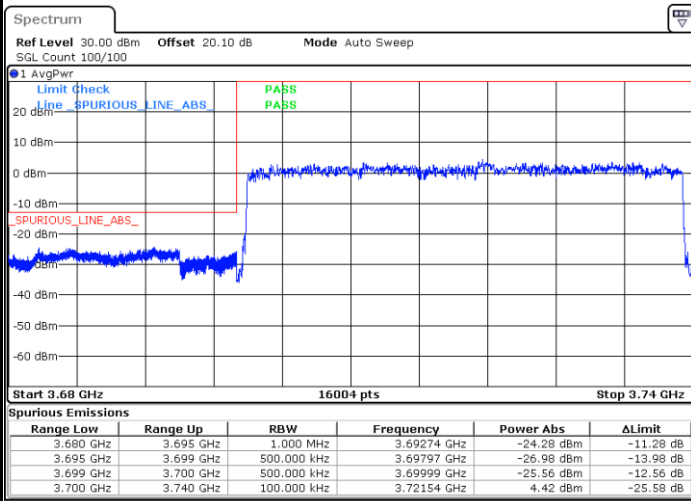


Date: 16.MAR.2021 13:43:25

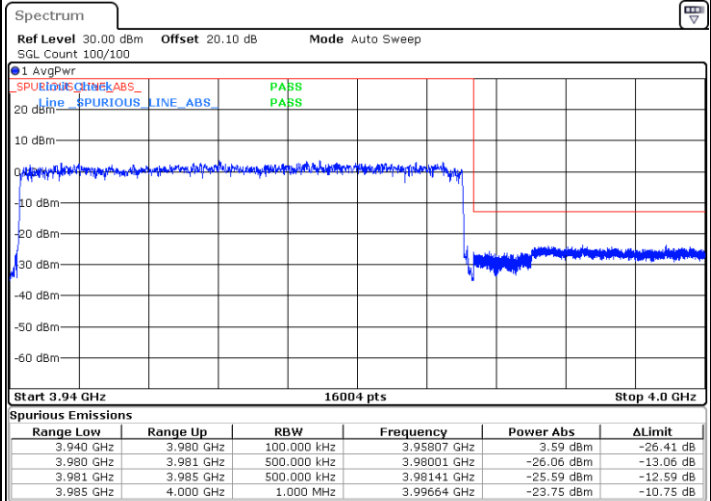
FR1 n77 / 40MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 13:37:14



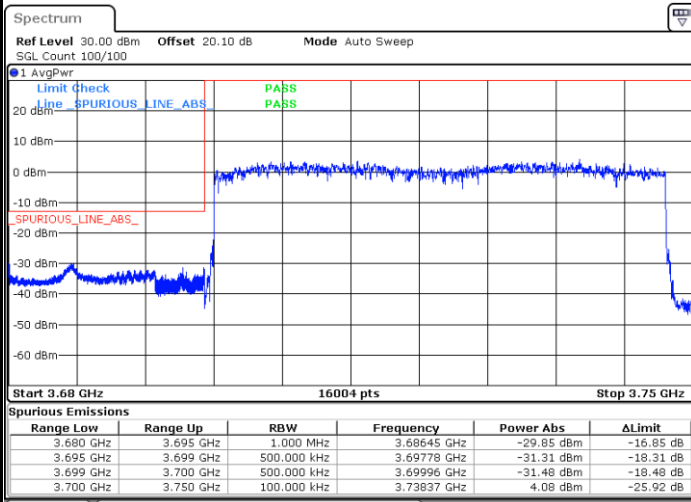
Date: 16.MAR.2021 13:44:03



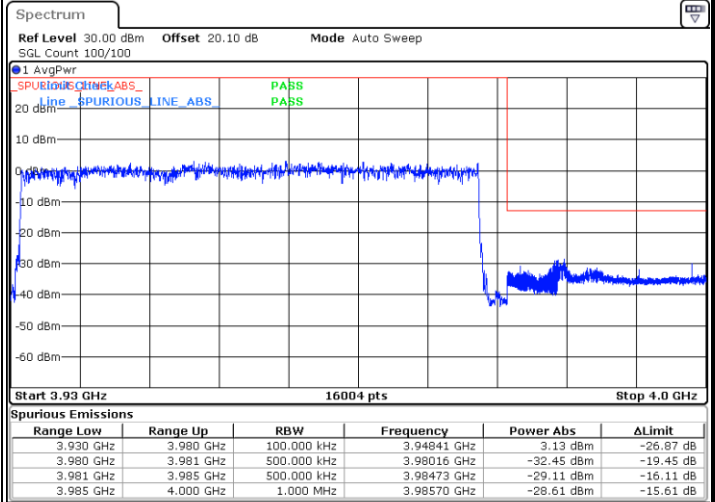
FR1 n77 / 50MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 13:52:43

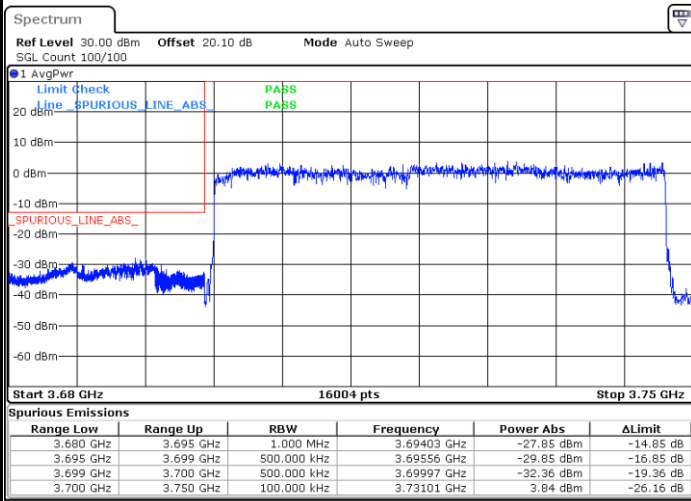


Date: 16.MAR.2021 13:51:51

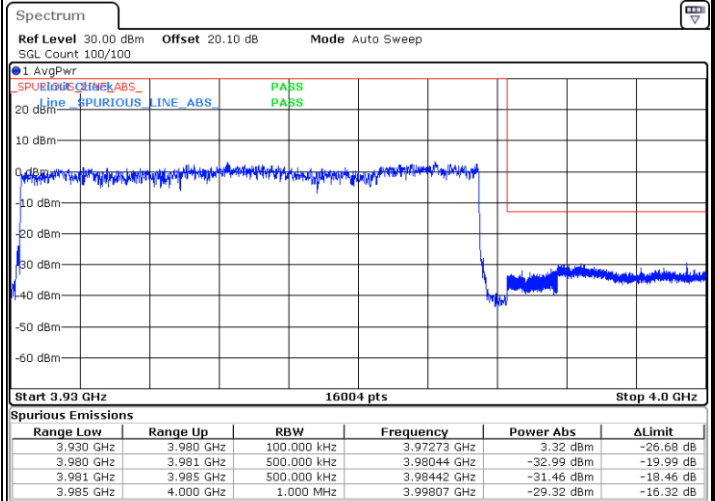
FR1 n77 / 50MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 13:53:15



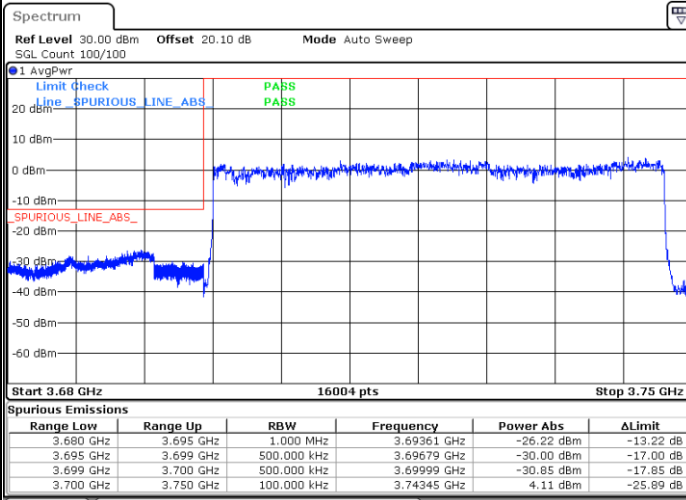
Date: 16.MAR.2021 13:49:34



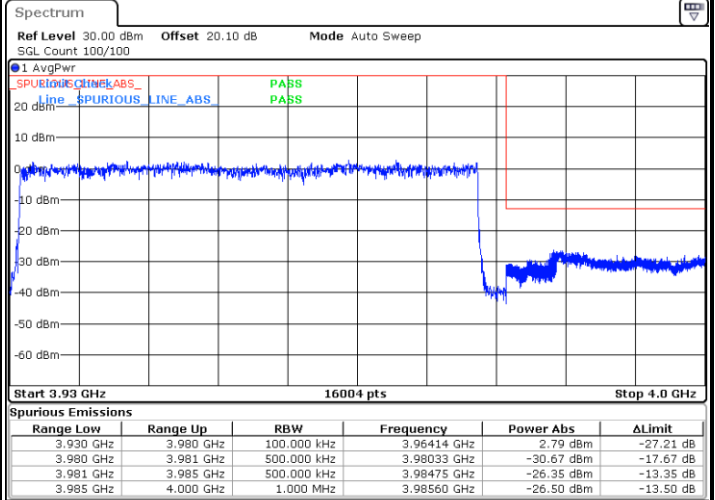
FR1 n77 / 50MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 13:53:49

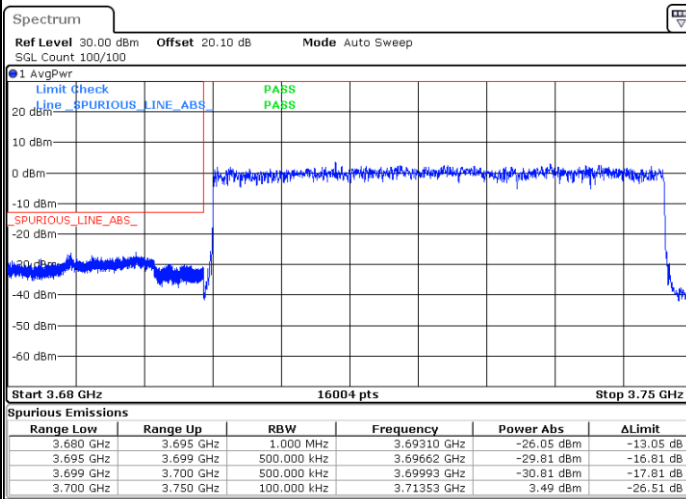


Date: 16.MAR.2021 13:50:10

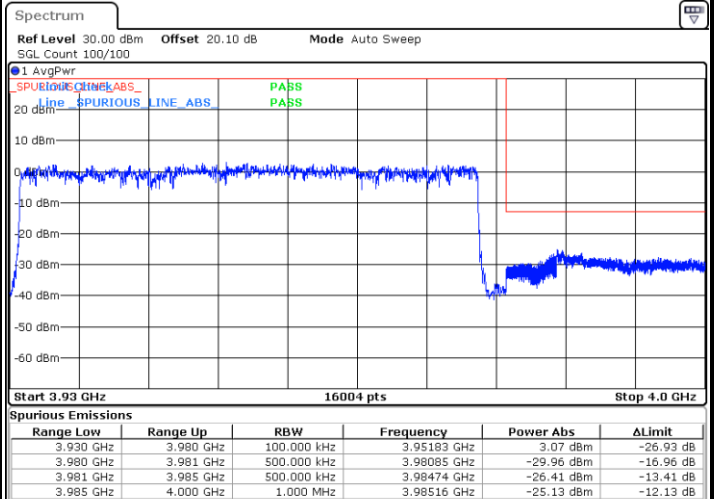
FR1 n77 / 50MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 13:54:18



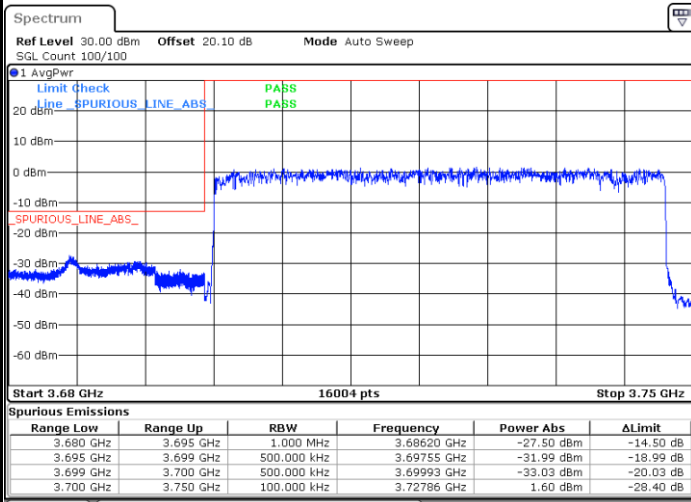
Date: 16.MAR.2021 13:50:45



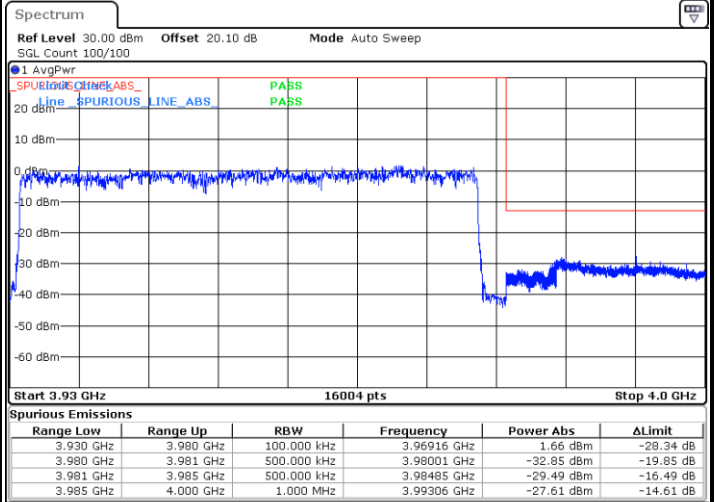
FR1 n77 / 50MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 13:54:53

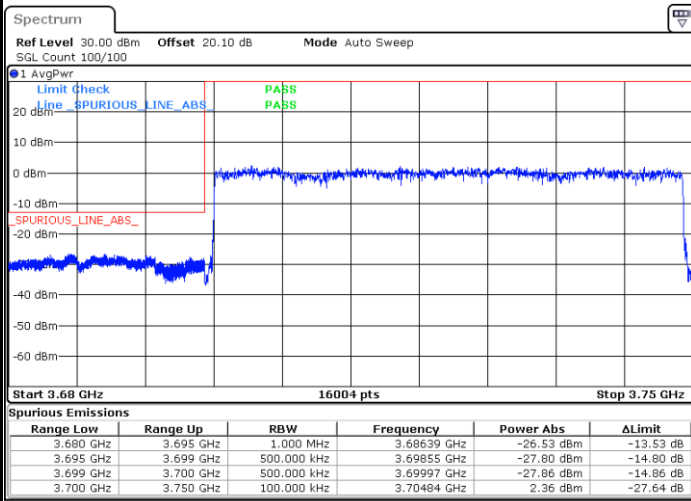


Date: 16.MAR.2021 13:51:17

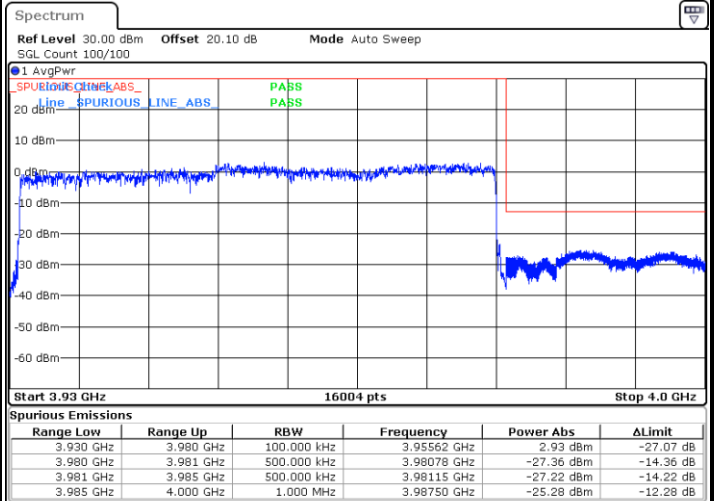
FR1 n77 / 50MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 13:55:28



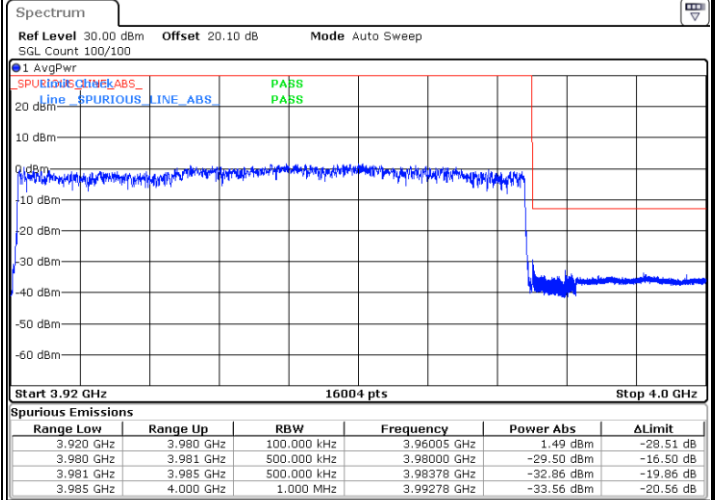
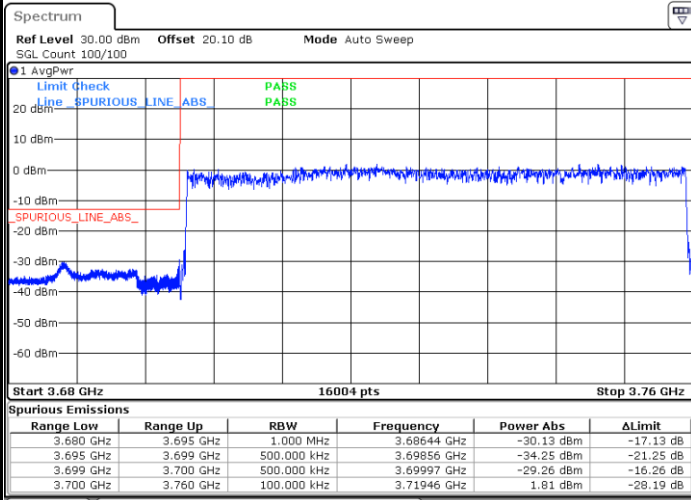
Date: 16.MAR.2021 13:48:37



FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



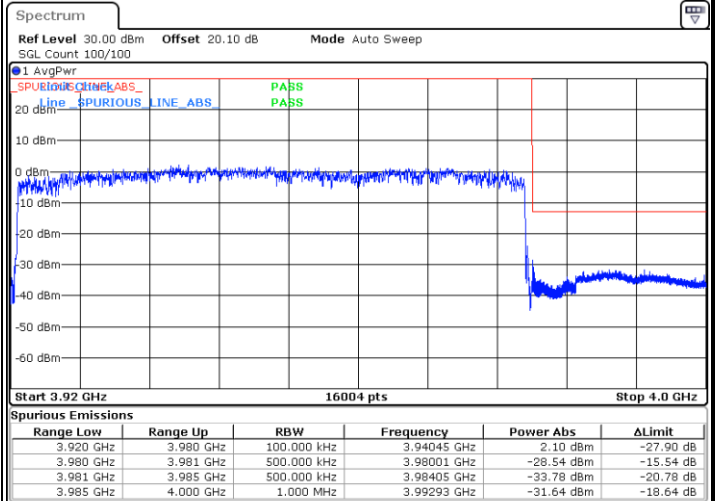
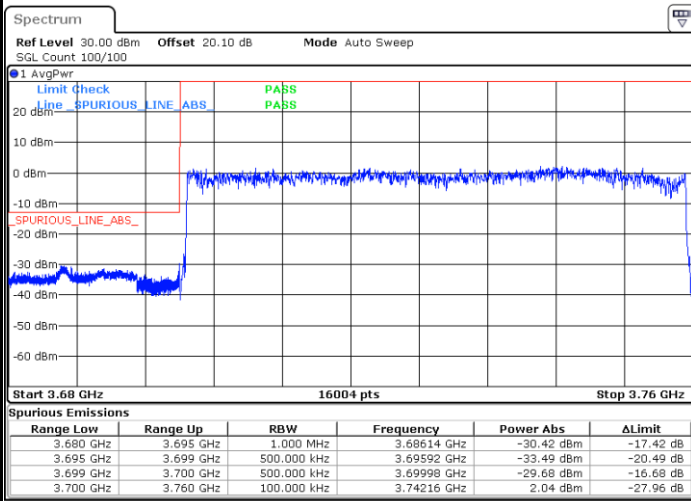
Date: 16.MAR.2021 14:02:00

Date: 16.MAR.2021 14:01:17

FR1 n77 / 60MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:03:45

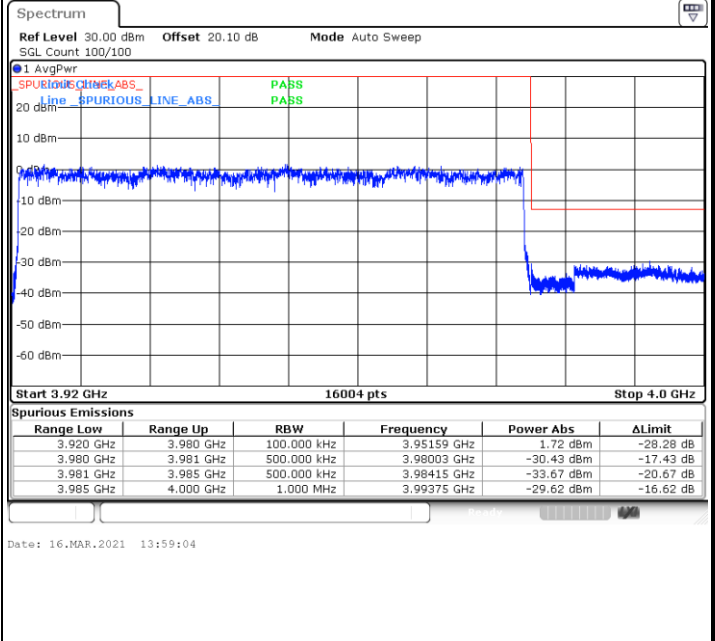
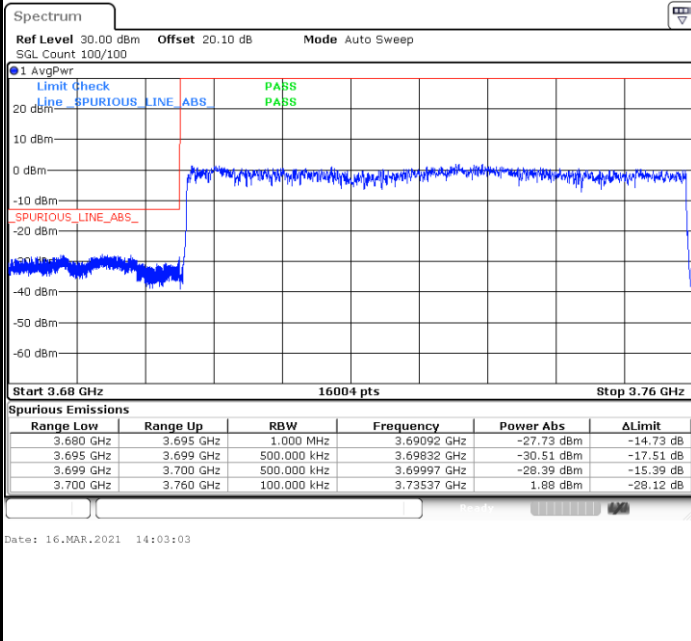
Date: 16.MAR.2021 13:57:49



FR1 n77 / 60MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

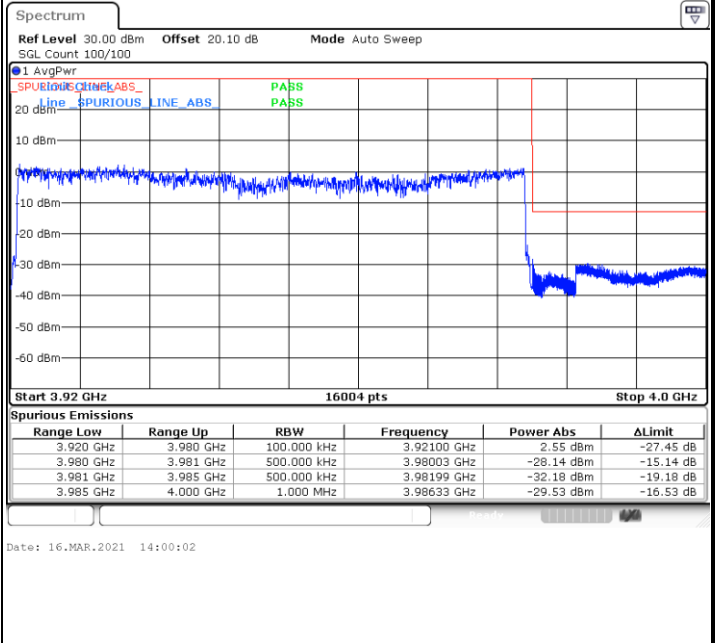
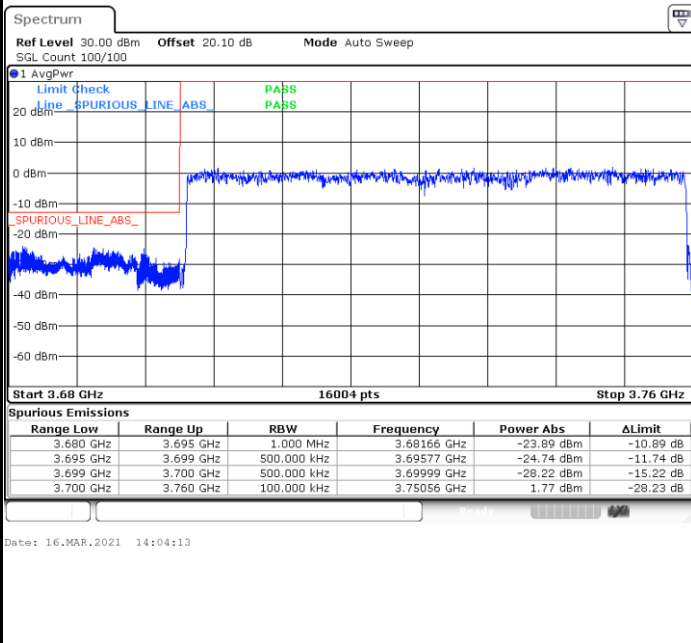
Highest Band Edge



FR1 n77 / 60MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge

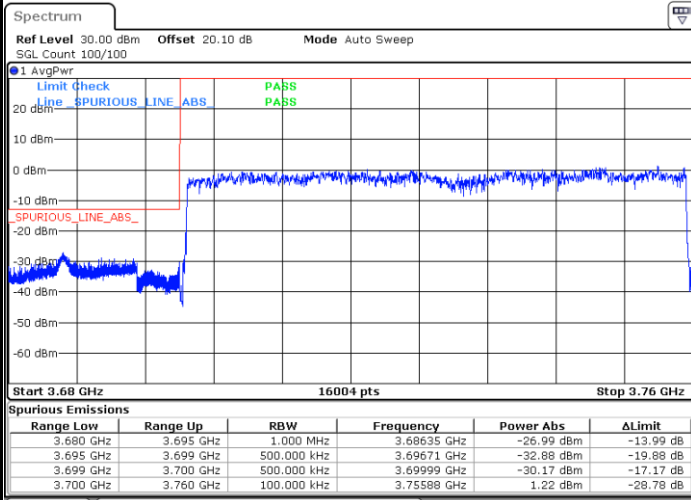




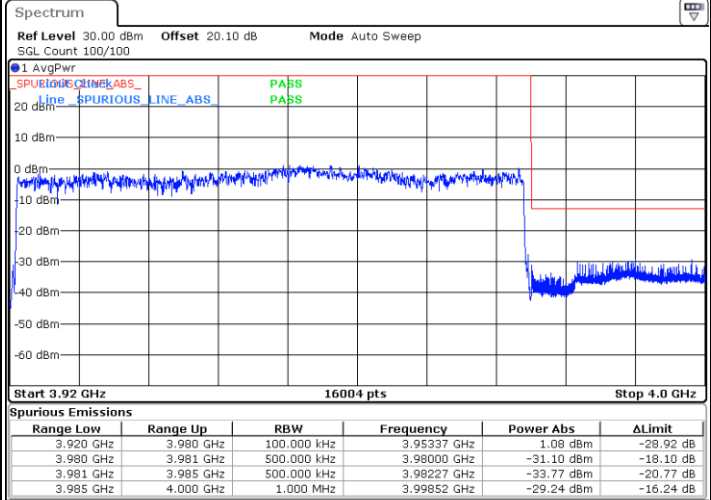
FR1 n77 / 60MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:04:49

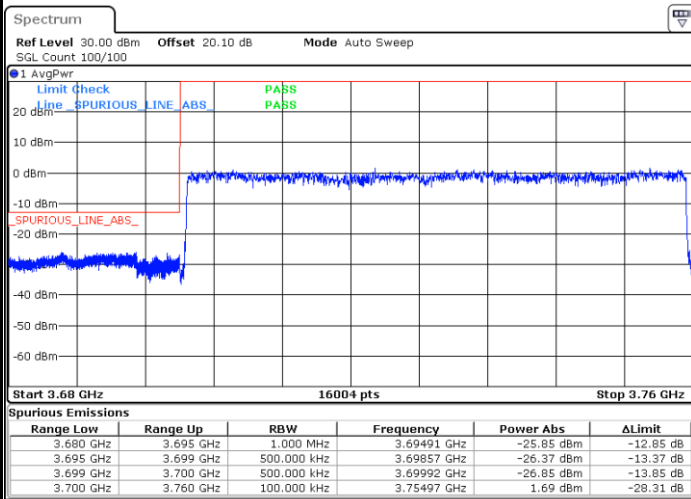


Date: 16.MAR.2021 14:00:42

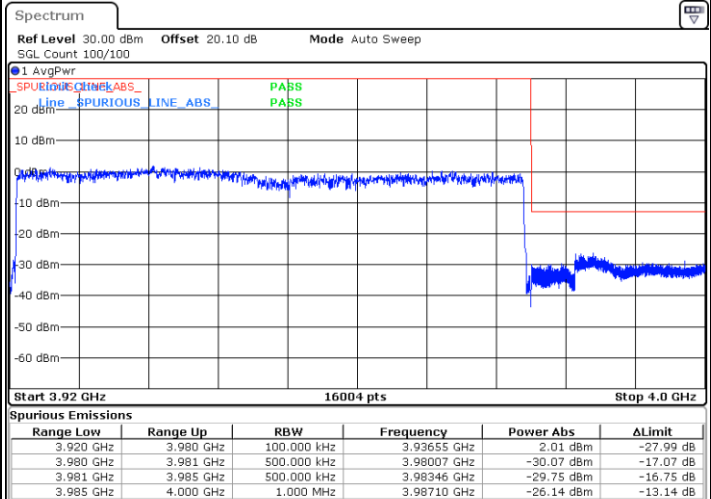
FR1 n77 / 60MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:05:28



Date: 16.MAR.2021 13:56:28

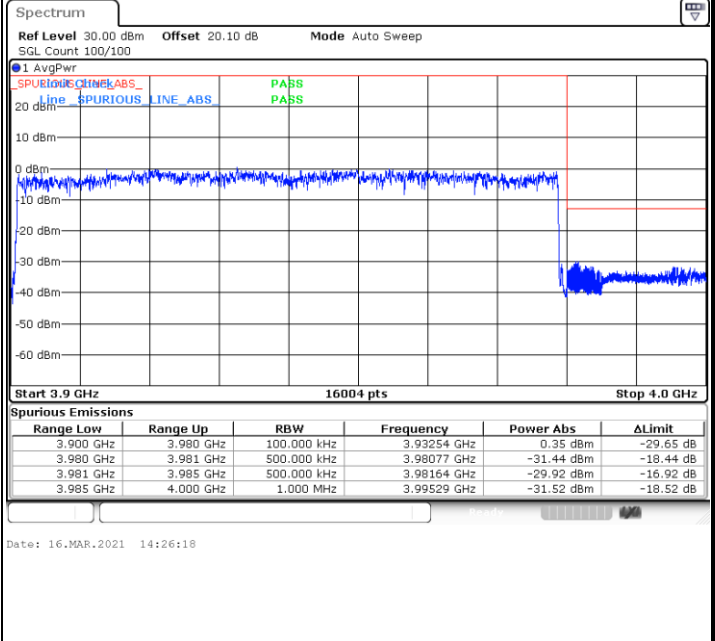
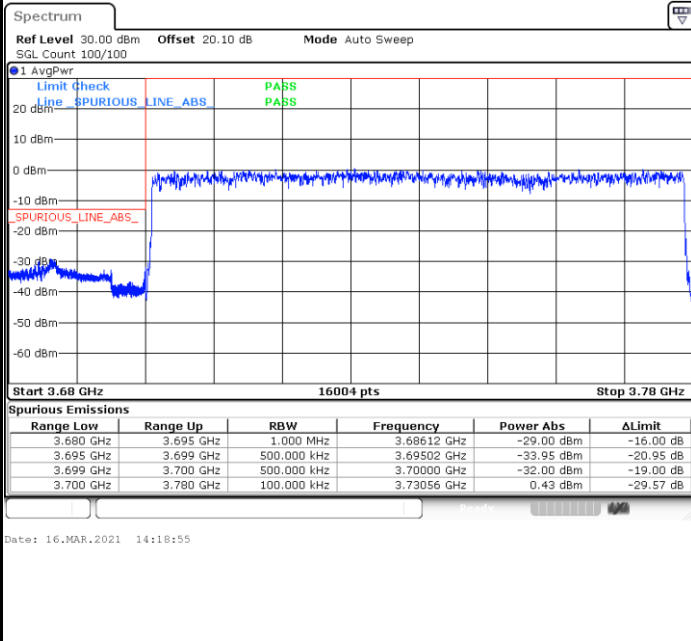




FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

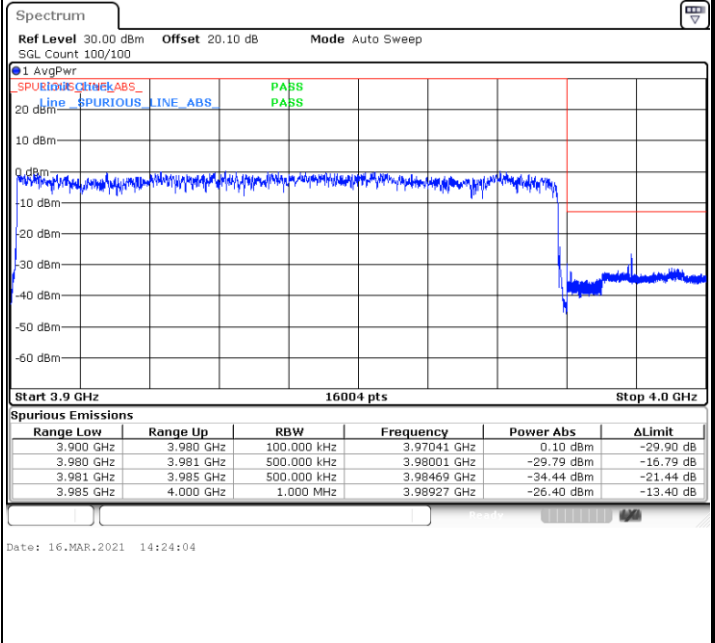
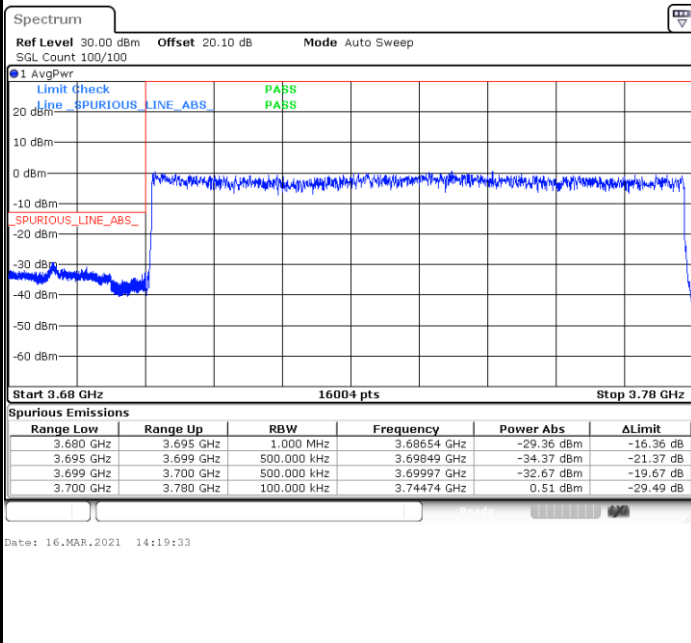
Highest Band Edge



FR1 n77 / 80MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



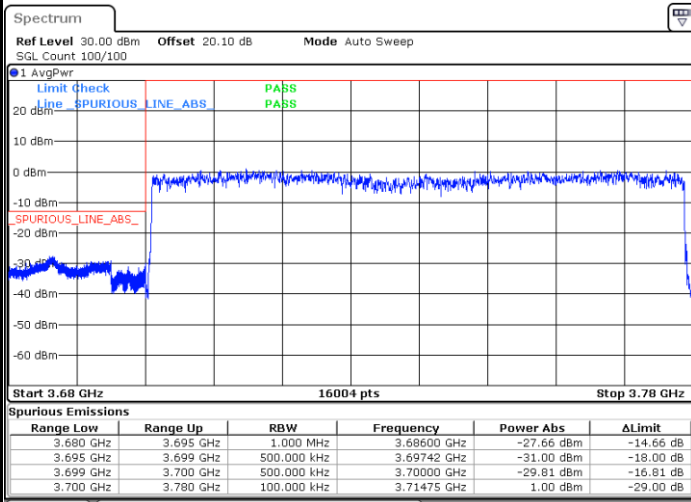




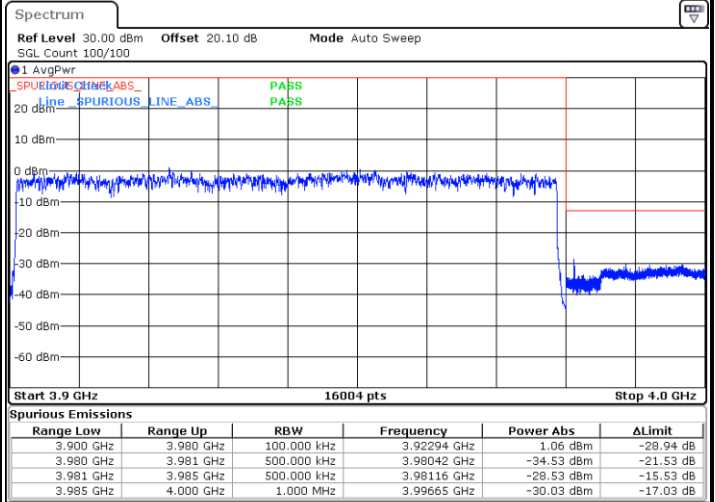
FR1 n77 / 80MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:20:15

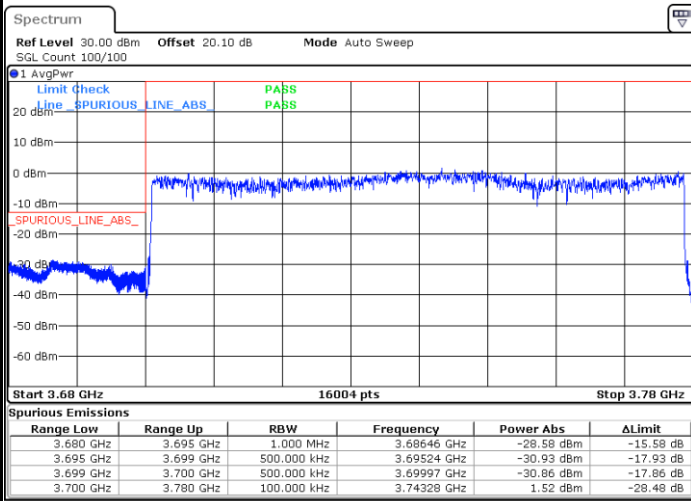


Date: 16.MAR.2021 14:24:37

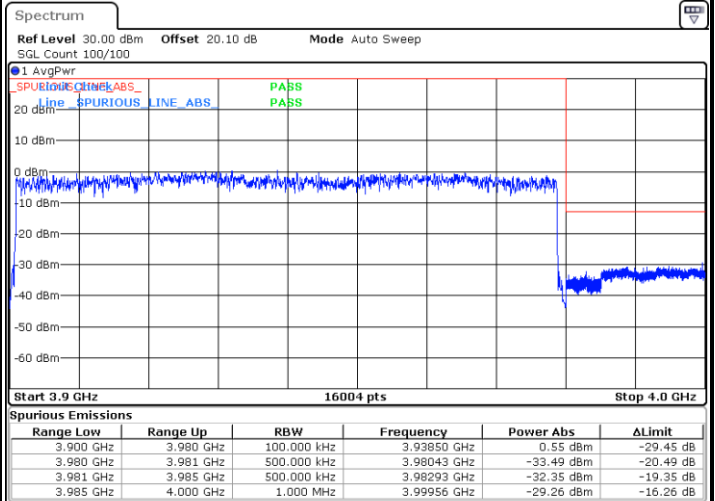
FR1 n77 / 80MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:20:56



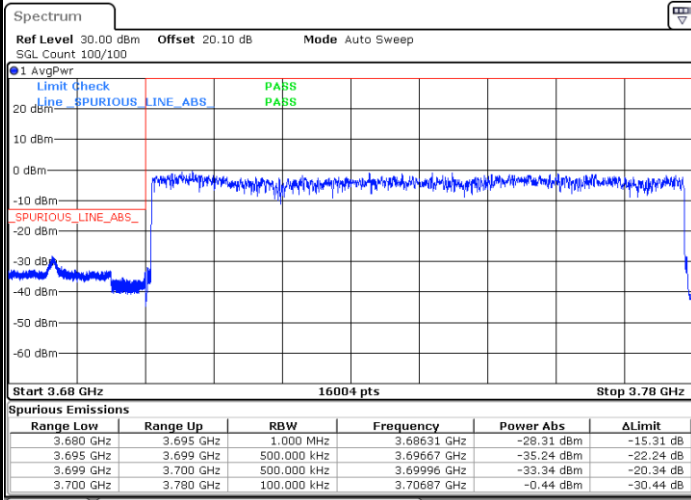
Date: 16.MAR.2021 14:25:11



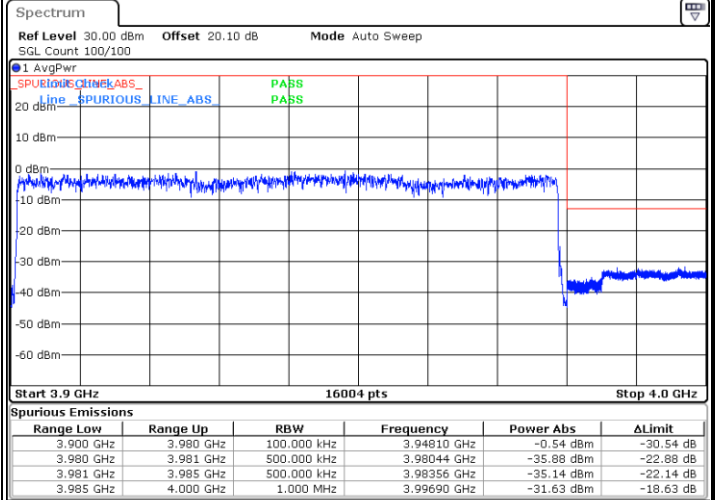
FR1 n77 / 80MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:21:37

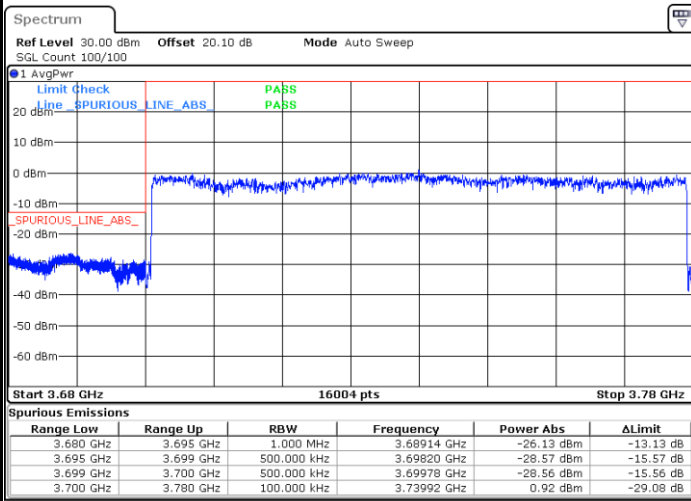


Date: 16.MAR.2021 14:25:46

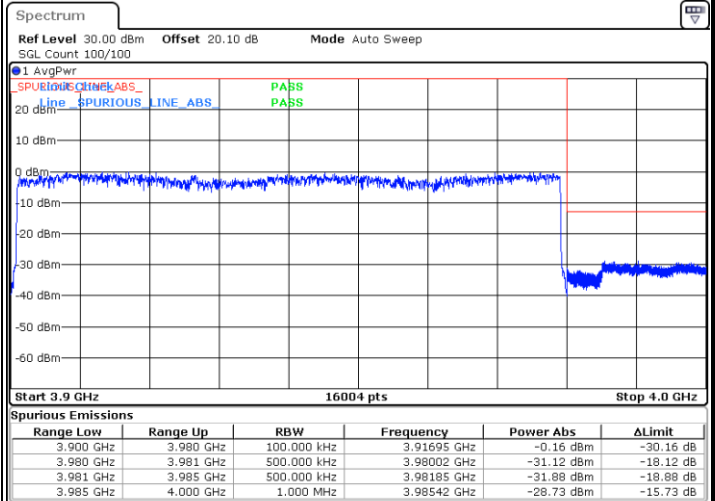
FR1 n77 / 80MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:22:18



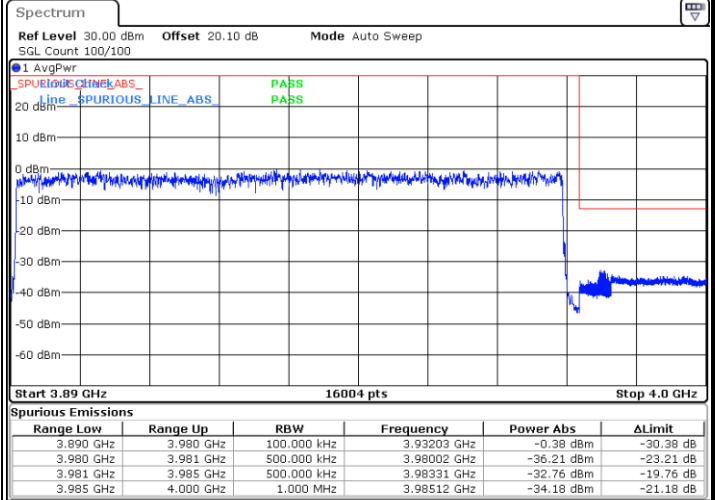
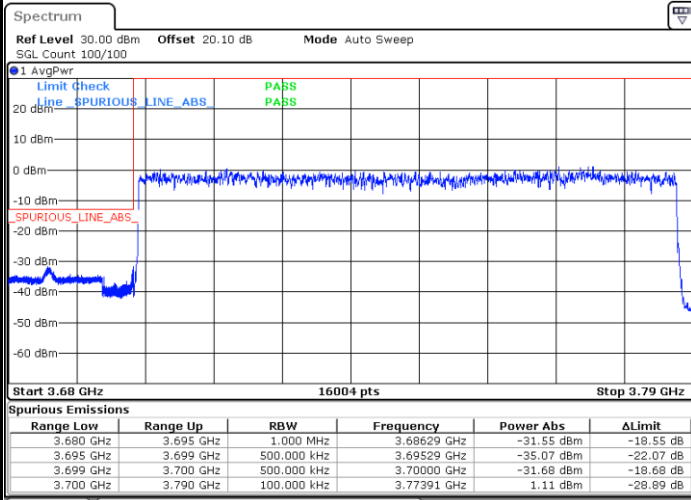
Date: 16.MAR.2021 14:23:23



FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



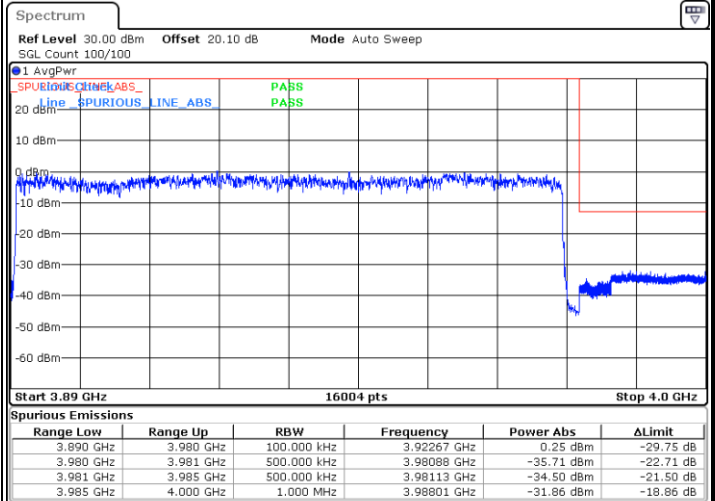
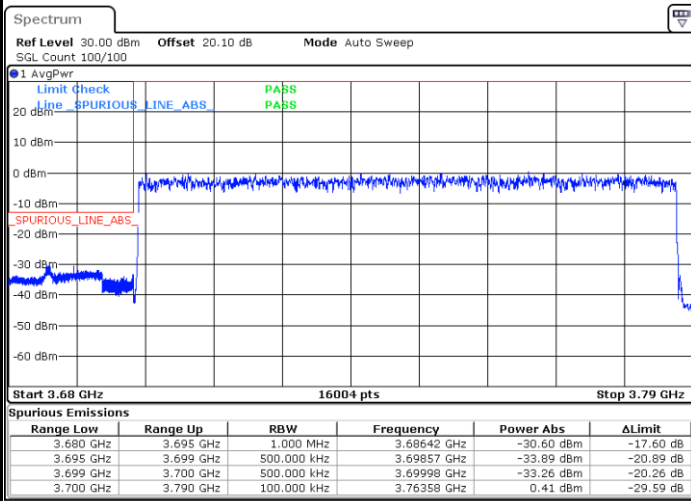
Date: 16.MAR.2021 14:33:17

Date: 16.MAR.2021 14:27:12

FR1 n77 / 90MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:31:12

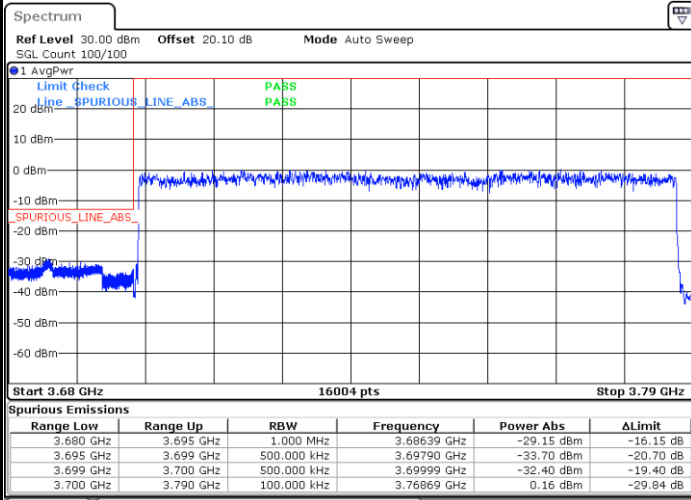
Date: 16.MAR.2021 14:27:42



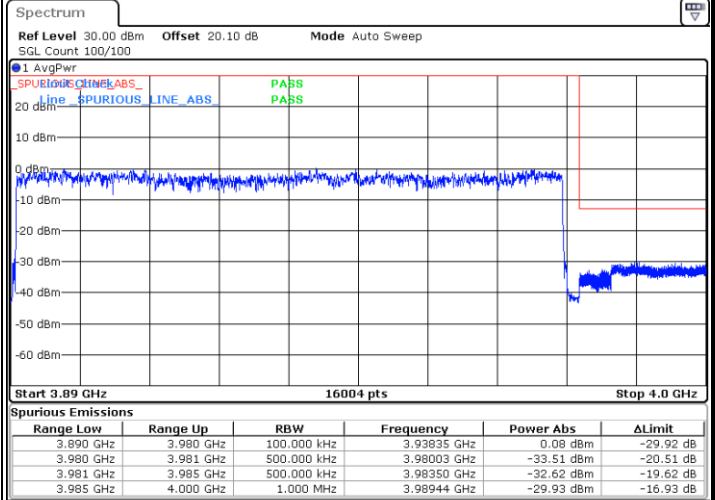
FR1 n77 / 90MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:31:43

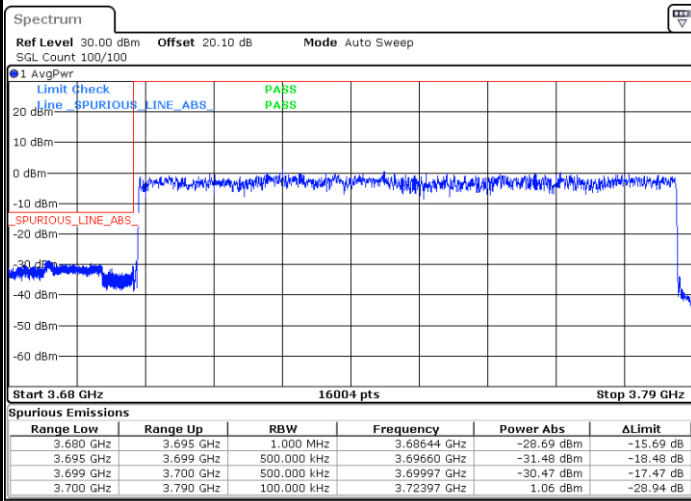


Date: 16.MAR.2021 14:28:11

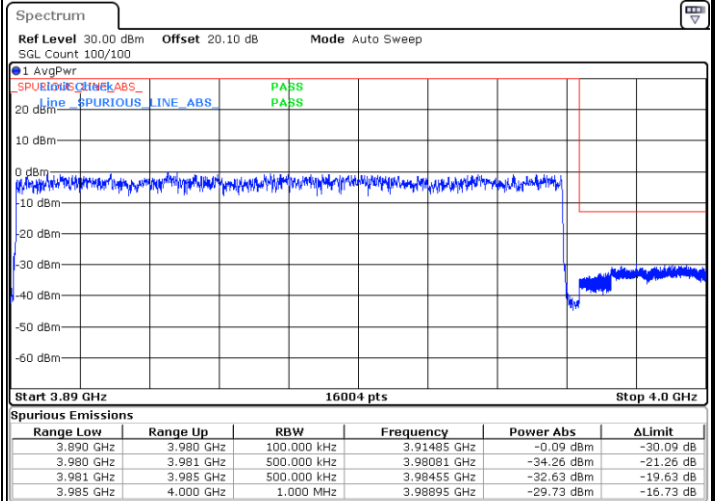
FR1 n77 / 90MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:32:09



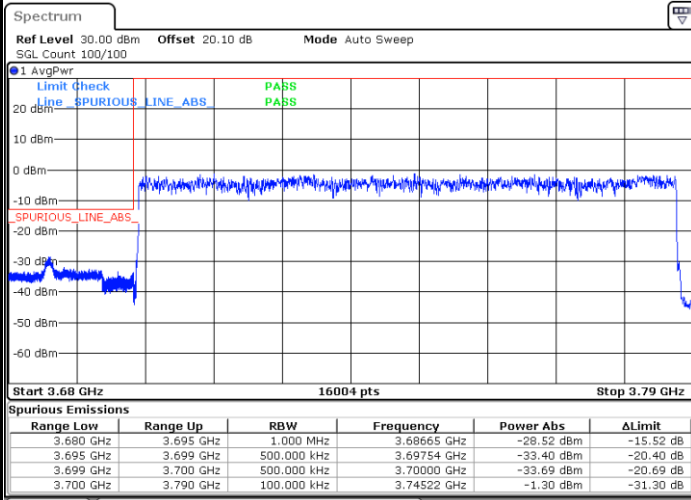
Date: 16.MAR.2021 14:28:43



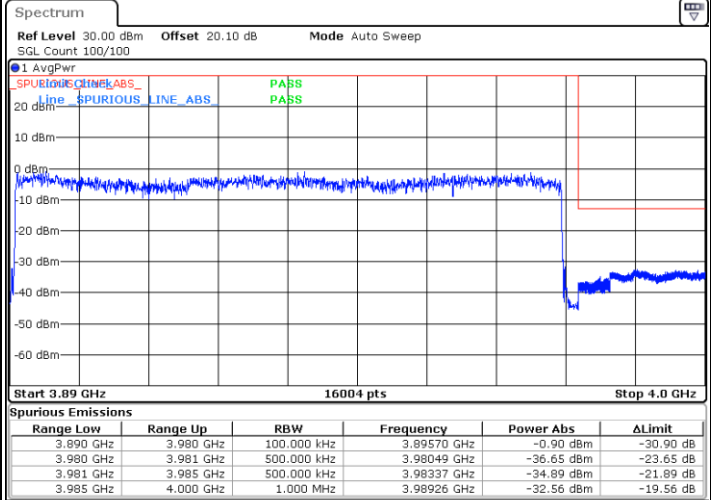
FR1 n77 / 90MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:32:41

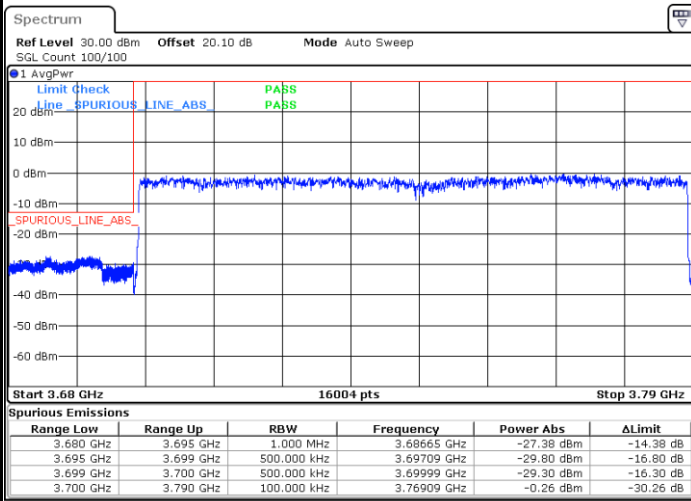


Date: 16.MAR.2021 14:29:15

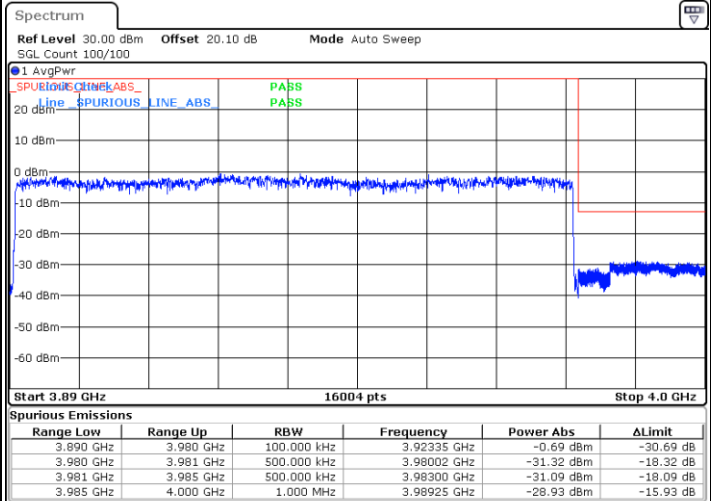
FR1 n77 / 90MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:30:36



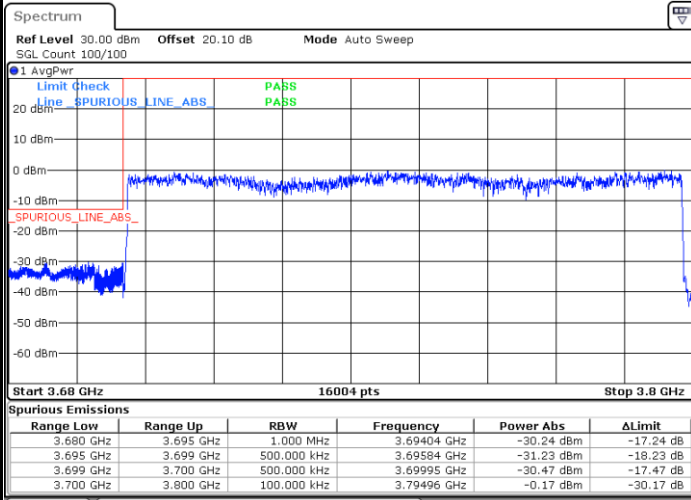
Date: 16.MAR.2021 14:29:56



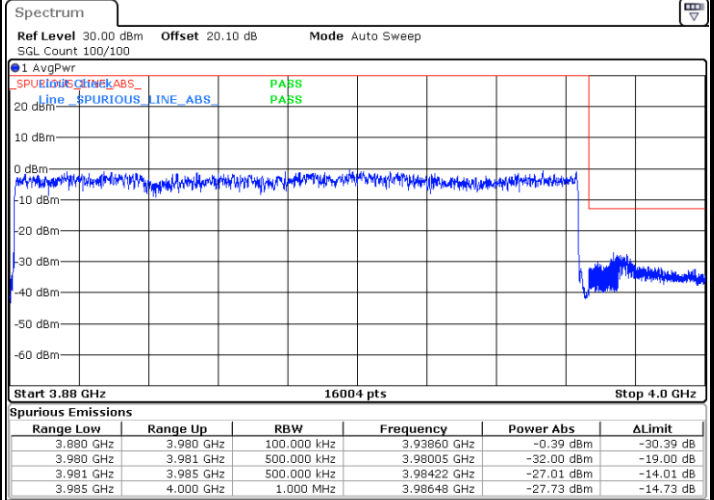
FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:35:23

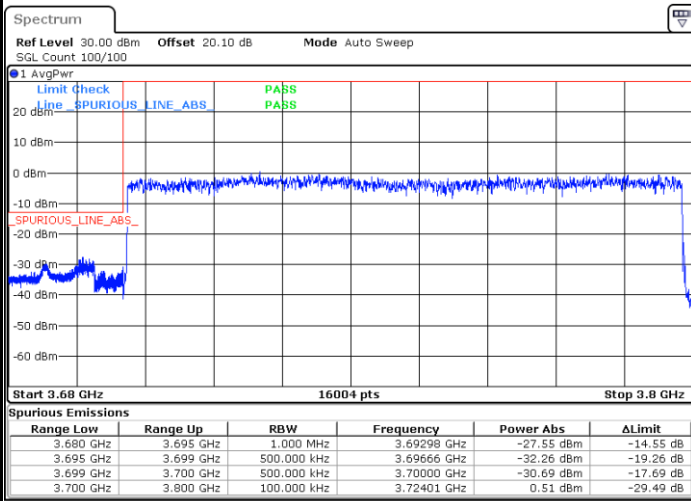


Date: 16.MAR.2021 14:43:39

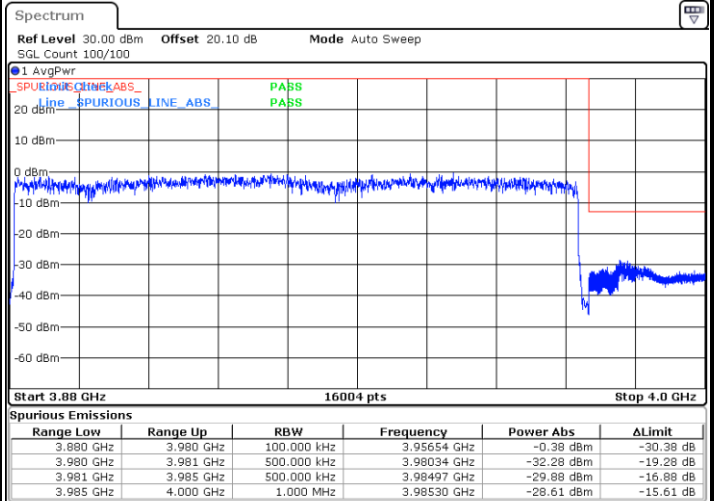
FR1 n77 / 100MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:36:33



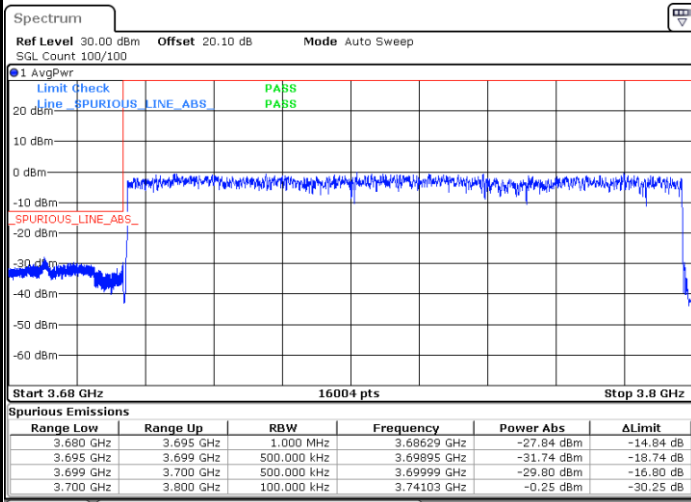
Date: 16.MAR.2021 14:41:38



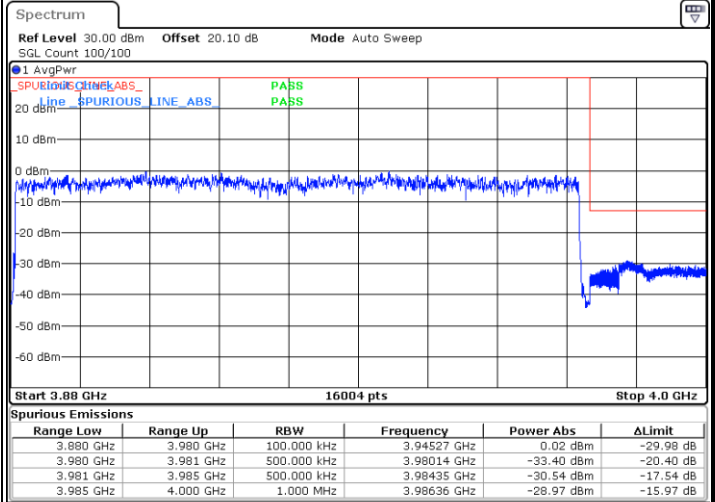
FR1 n77 / 100MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:37:04

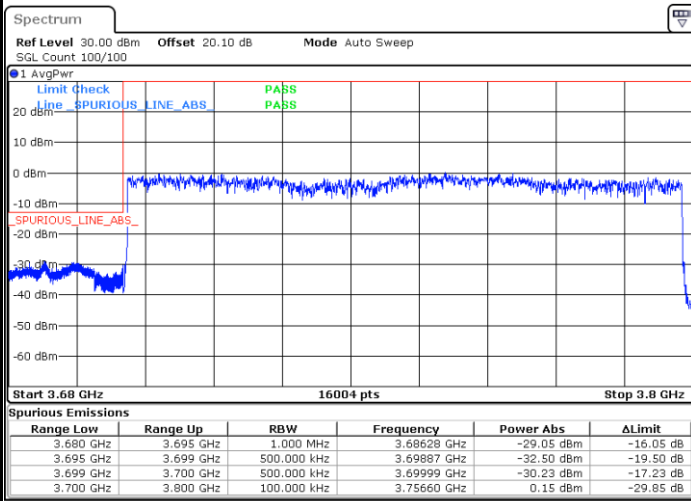


Date: 16.MAR.2021 14:42:08

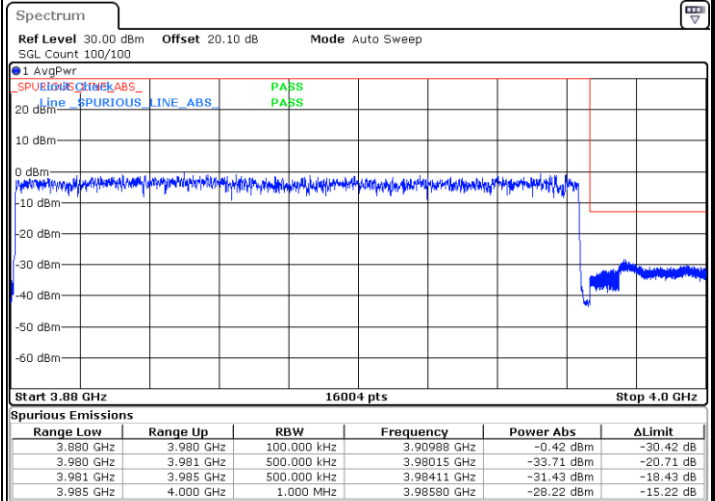
FR1 n77 / 100MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 16.MAR.2021 14:37:32



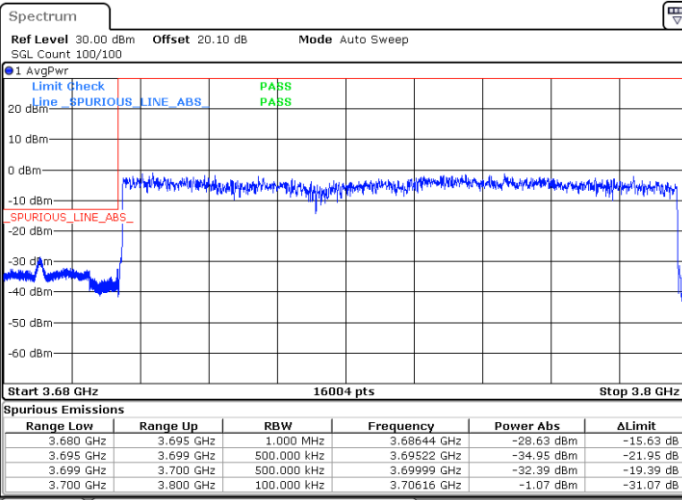
Date: 16.MAR.2021 14:42:38





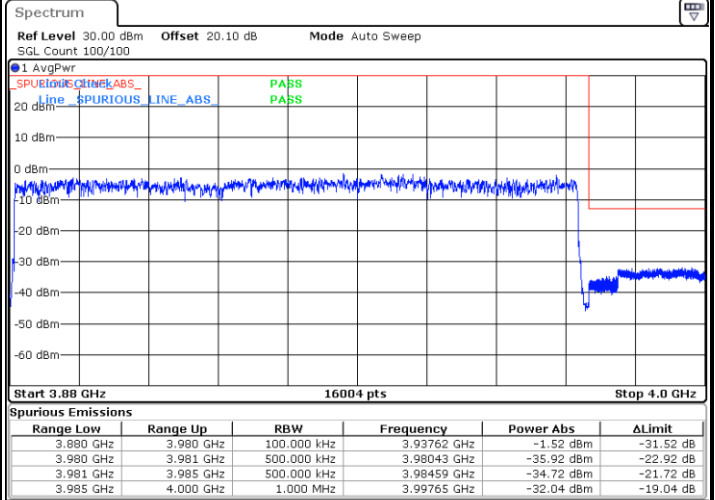
FR1 n77 / 100MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge / Full RB



Date: 16.MAR.2021 14:38:04

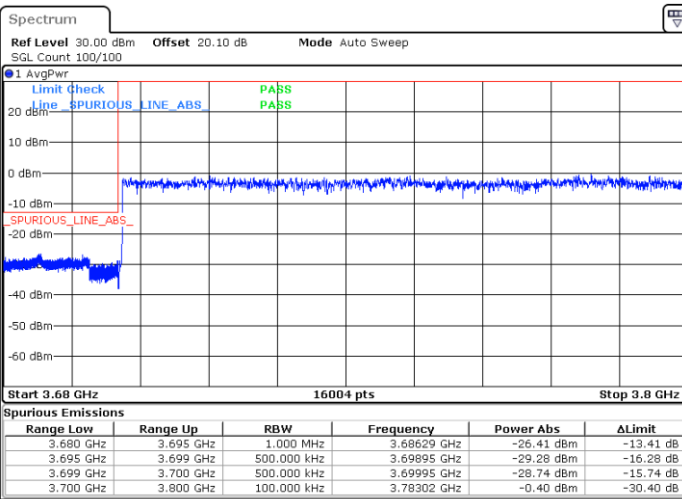
Highest Band Edge / Full RB



Date: 16.MAR.2021 14:43:05

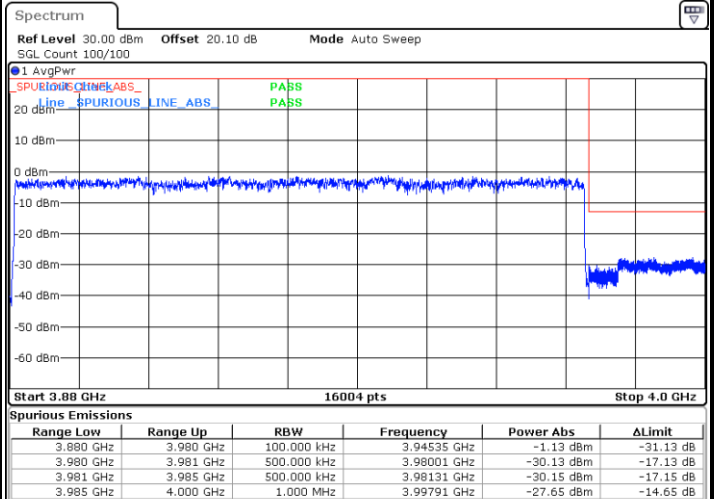
FR1 n77 / 100MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Date: 16.MAR.2021 14:40:23

Highest Band Edge



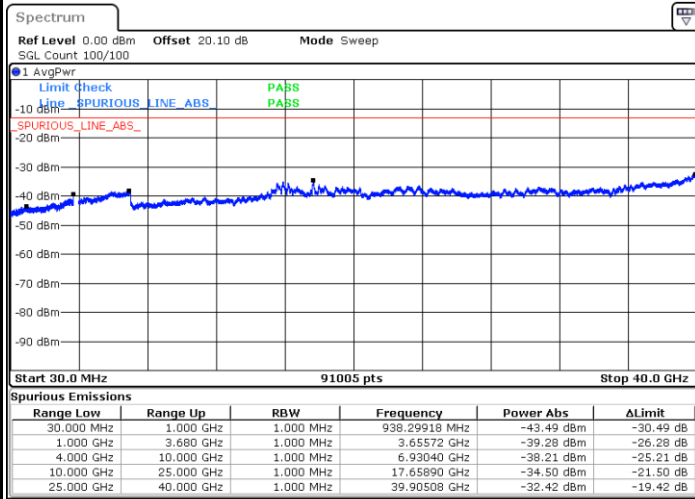
Date: 16.MAR.2021 14:41:01



# Conducted Spurious Emission

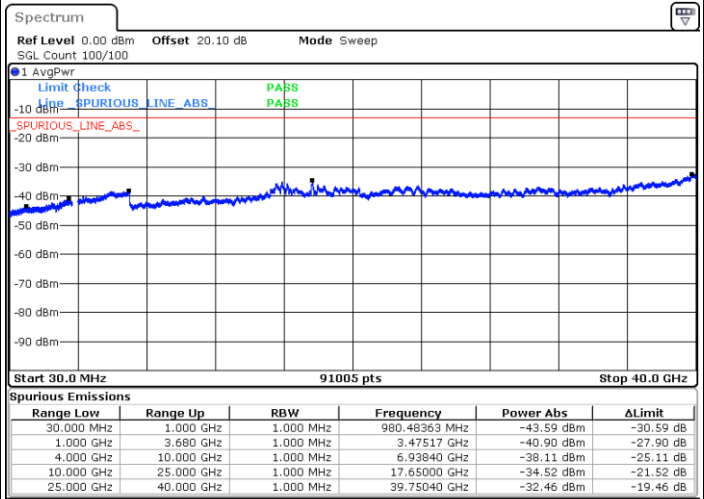
FR1 n77 / 20MHz / DFT-S OFDM / QPSK / 1RB1

## Lowest Channel



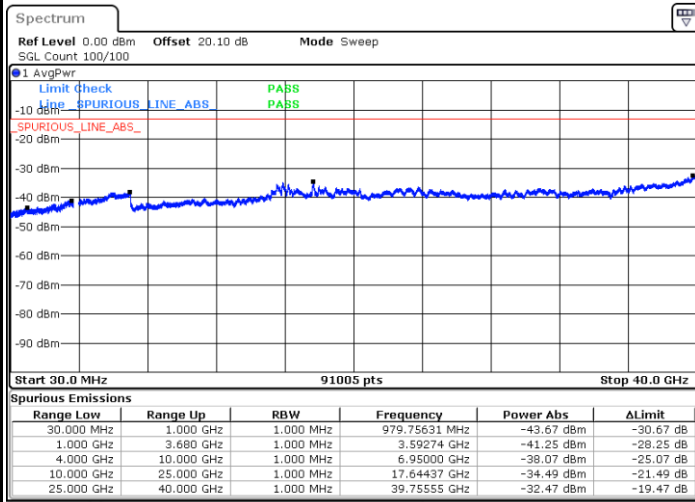
Date: 19.MAR.2021 19:23:01

## Middle Channel



Date: 19.MAR.2021 19:24:18

## Highest Channel



Date: 19.MAR.2021 19:25:47



Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0065	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0065	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0060	
-20	Normal Voltage	0.0059	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =11.6 V. ; Maximum Voltage =12.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# Appendix B. Test Results of Radiated Test

<Ant. 0>

## EN-DC 2A-n66A

EN-DC_2A_n66A / 20MHz / BPSK									
Channel	Frequency ( MHz )	EIRP ( 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	3422	-48.02	-13	-35.02	-76.24	-58.38	1.81	12.17	H
	5133	-41.45	-13	-28.45	-74.16	-51.27	2.31	12.13	H
	6844	-40.64	-13	-27.64	-76.34	-49.33	2.37	11.06	H
									H
									H
									H
	3422	-47.31	-13	-34.31	-76.16	-57.67	1.81	12.17	V
	5133	-42.48	-13	-29.48	-75.76	-52.30	2.31	12.13	V
	6844	-40.23	-13	-27.23	-76.48	-48.92	2.37	11.06	V
									V
									V
									V
Middle	3472	-47.28	-13	-34.28	-75.99	-57.75	1.85	12.32	H
	5208	-41.59	-13	-28.59	-74.41	-51.46	2.27	12.14	H
	6944	-40.14	-13	-27.14	-76.07	-48.70	2.40	10.96	H
									H
									H
									H
	3472	-47.00	-13	-34.00	-76.23	-57.47	1.85	12.32	V
	5208	-40.43	-13	-27.43	-73.8	-50.30	2.27	12.14	V
	6944	-39.78	-13	-26.78	-76.33	-48.34	2.40	10.96	V
									V
									V
									V



Highest	3522	-46.90	-13	-33.90	-76.02	-57.41	1.88	12.39	H
	5283	-40.98	-13	-27.98	-73.84	-50.89	2.24	12.16	H
	7044	-39.70	-13	-26.70	-75.98	-48.13	2.39	10.82	H
									H
									H
									H
	3522	-46.57	-13	-33.57	-76.16	-57.08	1.88	12.39	V
	5283	-39.39	-13	-26.39	-72.78	-49.30	2.24	12.16	V
	7044	-39.12	-13	-26.12	-76.01	-47.55	2.39	10.82	V
									V
									V
									V

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



**EN-DC 2A-n5A**

EN-DC_2A_n5A / 20MHz / 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	1650	-52.98	-13	-39.98	-75.17	-58.37	1.23	8.77	H
	2475	-49.57	-13	-36.57	-75.64	-56.46	1.44	10.48	H
	3300	-48.14	-13	-35.14	-75.92	-56.08	1.71	11.80	H
									H
									H
									H
									H
	1650	-52.88	-13	-39.88	-74.94	-58.27	1.23	8.77	V
	2475	-49.12	-13	-36.12	-75.47	-56.01	1.44	10.48	V
	3300	-47.98	-13	-34.98	-76.16	-55.92	1.71	11.80	V
									V
									V
									V
									V
Middle	1655	-52.72	-13	-39.72	-74.92	-58.13	1.23	8.79	H
	2482	-49.40	-13	-36.40	-75.45	-56.30	1.44	10.49	H
	3310	-48.39	-13	-35.39	-76.11	-56.36	1.71	11.83	H
									H
									H
									H
									H
	1655	-53.01	-13	-40.01	-75.09	-58.42	1.23	8.79	V
	2482	-49.25	-13	-36.25	-75.56	-56.15	1.44	10.49	V
	3310	-47.79	-13	-34.79	-75.94	-55.76	1.71	11.83	V
									V
									V
									V
									V



Highest	1660	-52.81	-13	-39.81	-75.03	-58.24	1.23	8.81	H
	2490	-49.23	-13	-36.23	-75.27	-56.13	1.44	10.49	H
	3320	-48.01	-13	-35.01	-75.66	-56.00	1.72	11.86	H
									H
									H
									H
									H
	1660	-53.24	-13	-40.24	-75.34	-58.67	1.23	8.81	V
	2490	-49.08	-13	-36.08	-75.34	-55.98	1.44	10.49	V
	3320	-47.89	-13	-34.89	-76	-55.88	1.72	11.86	V
									V
									V
									V
									V

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. The EN-DC, 2A-n5A, 48A-n5A, 66A-n5A, use same antenna configurations, and the middle channels are pre-scanned and the worst configuration, 2A-n5A, is tested by low, middle, high channels.





**EN-DC 48A-n5A**

EN-DC_48A_n5A / 20MHz / 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)
Middle	1655	-53.11	-13	-40.11	-75.31	-58.52	1.23	8.79	H
	2482	-49.58	-13	-36.58	-75.63	-56.48	1.44	10.49	H
	3310	-48.54	-13	-35.54	-76.26	-56.51	1.71	11.83	H
									H
									H
									H
									H
	1655	-53.31	-13	-40.31	-75.39	-58.72	1.23	8.79	V
	2482	-49.33	-13	-36.33	-75.64	-56.23	1.44	10.49	V
	3310	-48.18	-13	-35.18	-76.33	-56.15	1.71	11.83	V
									V
									V
									V
									V

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



**EN-DC 66A-n5A**

EN-DC_66A_n5A / 20MHz / 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)
Middle	1556	-52.87	-13	-39.87	-75.08	-57.94	1.19	1556	H
	2480	-42.53	-13	-29.53	-68.59	-49.43	1.44	2480	H
	3312	-48.65	-13	-35.65	-76.35	-56.62	1.72	3312	H
									H
									H
									H
									H
	1556	-49.74	-13	-36.74	-71.82	-54.81	1.19	8.41	V
	2480	-45.99	-13	-32.99	-72.31	-52.89	1.44	10.48	V
	3312	-48.25	-13	-35.25	-76.39	-56.22	1.72	11.84	V
									V
									V
									V
									V

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



<Ant. 3>

**EN-DC 5A-n66A**

EN-DC_5A_n66A / 20MHz / BPSK									
Channel	Frequency ( MHz )	EIRP ( 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	3420	-56.39	-13	-43.39	-74.68	-66.75	1.80	12.16	H
	5133	-52.65	-13	-39.65	-75.42	-62.47	2.31	12.13	H
	6843	-50.74	-13	-37.74	-76.43	-59.43	2.37	11.06	H
									H
									H
									H
									H
	3420	-56.18	-13	-43.18	-75.1	-66.54	1.80	12.16	V
	5133	-52.63	-13	-39.63	-75.97	-62.45	2.31	12.13	V
	6843	-50.39	-13	-37.39	-76.63	-59.08	2.37	11.06	V
									V
									V
									V
									V
Middle	3469	-54.12	-13	-41.12	-72.88	-64.58	1.84	12.31	H
	5205	-42.88	-13	-29.88	-65.75	-52.75	2.28	12.14	H
	6941	-48.86	-13	-35.86	-74.79	-57.42	2.40	10.96	H
									H
									H
									H
									H
	3469	-55.66	-13	-42.66	-74.94	-66.12	1.84	12.31	V
	5205	-52.38	-13	-39.38	-75.79	-62.25	2.28	12.14	V
	6941	-49.24	-13	-36.24	-75.79	-57.80	2.40	10.96	V
									V
									V
									V
									V



Highest	3525	-54.43	-13	-41.43	-73.65	-64.93	1.88	12.39	H
	5282	-47.78	-13	-34.78	-70.69	-57.69	2.24	12.16	H
	7046	-45.91	-13	-32.91	-72.2	-54.34	2.39	10.82	H
									H
									H
									H
									H
	3525	-56.12	-13	-43.12	-75.82	-66.62	1.88	12.39	V
	5282	-45.24	-13	-32.24	-68.68	-55.15	2.24	12.16	V
	7046	-47.59	-13	-34.59	-74.48	-56.02	2.39	10.82	V
									V
									V
									V
									V

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. The EN-DC, 5A-n66A, 13A-n66A use same antenna configurations, and the middle channels are pre-scanned and the worst configuration, 5A-n66A, is tested by low, middle, high channels.



**EN-DC 13A-n66A**

EN-DC_13A_n66A / 20MHz / BPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-47.28	-13	-34.28	-75.99	-57.75	1.85	12.32	H
	5208	-44.19	-13	-31.19	-77.01	-54.06	2.27	12.14	H
	6944	-40.20	-13	-27.20	-76.13	-48.76	2.40	10.96	H
									H
									H
									H
									H
	3472	-47.03	-13	-34.03	-76.26	-57.50	1.85	12.32	V
	5208	-43.48	-13	-30.48	-76.85	-53.35	2.27	12.14	V
	6944	-39.91	-13	-26.91	-76.46	-48.47	2.40	10.96	V
									V
									V
									V
									V

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



**EN-DC 5A-n2A**

EN-DC_5A_n2A / 20MHz / BPSK									
Channel	Frequency ( MHz )	EIRP ( 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	3700	-56.55	-13	-43.55	-76.49	-66.86	1.97	12.28	H
	5555	-53.99	-13	-40.99	-76.93	-64.12	2.14	12.28	H
	7403	-48.39	-13	-35.39	-75.98	-56.39	2.17	10.17	H
									H
									H
									H
									H
	3700	-55.67	-13	-42.67	-76.13	-65.98	1.97	12.28	V
	5555	-53.44	-13	-40.44	-77	-63.57	2.14	12.28	V
	7403	-48.38	-13	-35.38	-75.93	-56.38	2.17	10.17	V
									V
									V
									V
									V
Middle	3742	-55.60	-13	-42.60	-75.63	-65.86	2.00	12.25	H
	5613	-53.98	-13	-40.98	-76.89	-64.21	2.13	12.36	H
	7484	-48.20	-13	-35.20	-75.59	-56.10	2.12	10.03	H
									H
									H
									H
									H
	3742	-55.40	-13	-42.40	-75.94	-65.66	2.00	12.25	V
	5613	-53.00	-13	-40.00	-76.56	-63.23	2.13	12.36	V
	7484	-48.98	-13	-35.98	-76.23	-56.88	2.12	10.03	V
									V
									V
									V
									V



Highest	3784	-55.14	-13	-42.14	-75.29	-65.35	2.02	12.23	H
	5673	-53.19	-13	-40.19	-76.41	-63.52	2.12	12.44	H
	7564	-49.13	-13	-36.13	-76	-57.25	2.11	10.23	H
									H
									H
									H
									H
	3784	-55.31	-13	-42.31	-75.95	-65.52	2.02	12.23	V
	5673	-52.86	-13	-39.86	-76.68	-63.19	2.12	12.44	V
	7564	-48.89	-13	-35.89	-75.73	-57.01	2.11	10.23	V
									V
									V
									V
									V

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. The EN-DC, 5A-n2A, 13A-n2A, 66A-n2A, use same antenna configurations, and the middle channels are pre-scanned and the worst configuration, 5A-n2A, is tested by low, middle, high channels.





**EN-DC 13A-n2A**

EN-DC_13A_n2A / 20MHz / BPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3742	-45.84	-13	-32.84	-75.81	-56.10	2.00	12.25	H
	5613	-41.33	-13	-28.33	-74.21	-51.56	2.13	12.36	H
	7484	-37.00	-13	-24.00	-74.4	-44.90	2.12	10.03	H
									H
									H
									H
									H
	3742	-45.07	-13	-32.07	-75.55	-55.33	2.00	12.25	V
	5613	-41.78	-13	-28.78	-75.31	-52.01	2.13	12.36	V
	7484	-38.08	-13	-25.08	-75.34	-45.98	2.12	10.03	V
									V
									V
									V
									V

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



**EN-DC 66A-n2A**

EN-DC_66A_n2A / 20MHz / BPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3742	-55.52	-13	-42.52	-75.55	-65.78	2.00	12.25	H
	5613	-50.15	-13	-37.15	-73.06	-60.38	2.13	12.36	H
	7484	-48.67	-13	-35.67	-76.06	-56.57	2.12	10.03	H
									H
									H
									H
									H
	3742	-54.38	-13	-41.38	-74.92	-64.64	2.00	12.25	V
	5613	-50.54	-13	-37.54	-74.1	-60.77	2.13	12.36	V
	7484	-48.25	-13	-35.25	-75.5	-56.15	2.12	10.03	V
									V
									V
									V
									V

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



**EN-DC 13A-n5A**

EN-DC_13A_n5A / 20MHz / 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	1650	-50.69	-13	-37.69	-72.88	-56.08	1.23	8.77	H
	2475	-49.41	-13	-36.41	-75.48	-56.30	1.44	10.48	H
	3300	-48.53	-13	-35.53	-76.31	-56.47	1.71	11.80	H
									H
									H
									H
									H
	1650	-50.12	-13	-37.12	-72.18	-55.51	1.23	8.77	V
	2475	-48.28	-13	-35.28	-74.63	-55.17	1.44	10.48	V
	3300	-48.06	-13	-35.06	-76.24	-56.00	1.71	11.80	V
									V
									V
									V
									V
Middle	1655	-51.64	-13	-38.64	-73.84	-57.05	1.23	8.79	H
	2483	-49.56	-13	-36.56	-75.61	-56.46	1.44	10.49	H
	3310	-48.50	-13	-35.50	-76.22	-56.47	1.71	11.83	H
									H
									H
									H
									H
	1655	-51.23	-13	-38.23	-73.31	-56.64	1.23	8.79	V
	2483	-48.89	-13	-35.89	-75.19	-55.79	1.44	10.49	V
	3310	-47.57	-13	-34.57	-75.72	-55.54	1.71	11.83	V
									V
									V
									V
									V



Highest	1660	-47.86	-13	-34.86	-70.08	-53.29	1.23	8.81	H
	2490	-48.47	-13	-35.47	-74.51	-55.37	1.44	10.49	H
	3320	-48.09	-13	-35.09	-75.74	-56.08	1.72	11.86	H
									H
									H
									H
									H
	1660	-51.34	-13	-38.34	-73.44	-56.77	1.23	8.81	V
	2490	-45.61	-13	-32.61	-71.87	-52.51	1.44	10.49	V
	3320	-46.46	-13	-33.46	-74.57	-54.45	1.72	11.86	V
									V
									V
									V
									V

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



**EN-DC 2A-n77A (HPUE)**

EN-DC 2A-n77A / 100MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	EIRP ( 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	7402	-46.51	-13	-33.51	-73.82	-53.68	1.94	11.26	H
	11103	-42.70	-13	-29.70	-73.93	-48.97	2.61	11.02	H
	14804	-36.67	-13	-23.67	-72.32	-43.56	2.94	11.97	H
	18505	-55.54	-13	-42.54	-73.92	-69.39	1.90	17.90	H
	22206	-53.60	-13	-40.60	-76.05	-68.22	2.05	18.82	H
	25907	-51.47	-13	-38.47	-77.57	-66.44	1.96	19.08	H
									H
	7402	-46.79	-13	-33.79	-73.94	-53.96	1.94	11.26	V
	11103	-41.90	-13	-28.90	-72.96	-48.17	2.61	11.02	V
	14804	-38.44	-13	-25.44	-72.15	-45.33	2.94	11.97	V
	18505	-56.53	-13	-43.53	-74.05	-70.38	1.90	17.90	V
	22206	-54.00	-13	-41.00	-76.47	-68.62	2.05	18.82	V
	25907	-50.25	-13	-37.25	-77.46	-65.22	1.96	19.08	V
									V



Middle	7582	-47.79	-13	-34.79	-74.21	-54.75	2.00	11.12	H
	11373	-41.38	-13	-28.38	-72.95	-48.08	2.49	11.35	H
	15164	-35.67	-13	-22.67	-72.3	-44.20	3.04	13.72	H
	19156	-55.51	-13	-42.51	-74.7	-69.60	1.82	18.06	H
	22987	-52.37	-13	-39.37	-76.61	-66.45	1.98	18.21	H
	26818	-50.09	-13	-37.09	-76.93	-64.50	2.17	18.74	H
									H
	7582	-47.54	-13	-34.54	-73.92	-54.50	2.00	11.12	V
	11373	-41.88	-13	-28.88	-73.3	-48.58	2.49	11.35	V
	15164	-37.77	-13	-24.77	-72.4	-46.30	3.04	13.72	V
	19156	-55.98	-13	-42.98	-74.47	-70.07	1.82	18.06	V
	22987	-52.95	-13	-39.95	-77.21	-67.03	1.98	18.21	V
	26818	-48.67	-13	-35.67	-76.99	-63.08	2.17	18.74	V
									V
Highest	7762	-47.19	-13	-34.19	-73.6	-54.17	2.03	11.15	H
	11643	-40.93	-13	-27.93	-72.78	-48.19	2.49	11.90	H
	15524	-35.69	-13	-22.69	-72.27	-46.49	3.13	16.08	H
	19405	-55.43	-13	-42.43	-74.62	-69.63	1.96	18.31	H
	23286	-51.35	-13	-38.35	-76.03	-65.31	1.97	18.09	H
	27167	-50.94	-13	-37.94	-77.56	-65.56	2.10	18.87	H
									H
	7762	-47.50	-13	-34.50	-73.65	-54.48	2.03	11.15	V
	11643	-41.38	-13	-28.38	-73.31	-48.64	2.49	11.90	V
	15524	-36.65	-13	-23.65	-72.52	-47.45	3.13	16.08	V
	19405	-56.42	-13	-43.42	-74.93	-70.62	1.96	18.31	V
	23286	-51.56	-13	-38.56	-76.37	-65.52	1.97	18.09	V
	27167	-49.45	-13	-36.45	-77.48	-64.07	2.10	18.87	V
									V

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. The EN-DC, 2A-n77A, 5A-n77A, 13A-n77A, 66A-n77A, use same antenna configurations, and the middle channels are pre-scanned and the worst configuration, 2A-n77A, is tested by low, middle, high channels.



**EN-DC 5A-n77A (HPUE)**

EN-DC 5A-n77A / 100MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7582	-47.07	-13	-34.07	-73.49	-54.03	2.00	11.12	H
	11373	-41.41	-13	-28.41	-72.98	-48.11	2.49	11.35	H
	15164	-35.31	-13	-22.31	-71.94	-43.84	3.04	13.72	H
	19156	-55.86	-13	-42.86	-75.05	-69.95	1.82	18.06	H
	22987	-52.72	-13	-39.72	-76.96	-66.80	1.98	18.21	H
	26818	-49.73	-13	-36.73	-76.57	-64.14	2.17	18.74	H
									H
	7582	-47.36	-13	-34.36	-73.74	-54.32	2.00	11.12	V
	11373	-41.40	-13	-28.40	-72.82	-48.10	2.49	11.35	V
	15164	-37.51	-13	-24.51	-72.14	-46.04	3.04	13.72	V
	19156	-56.61	-13	-43.61	-75.1	-70.70	1.82	18.06	V
	22987	-52.61	-13	-39.61	-76.87	-66.69	1.98	18.21	V
	26818	-48.80	-13	-35.80	-77.12	-63.21	2.17	18.74	V
									V

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





**EN-DC 13A-n77A (HPUE)**

EN-DC 13A-n77A / 100MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7582	-47.51	-13	-34.51	-73.93	-54.47	2.00	11.12	H
	11373	-41.81	-13	-28.81	-73.38	-48.51	2.49	11.35	H
	15164	-35.56	-13	-22.56	-72.19	-44.09	3.04	13.72	H
	19156	-55.71	-13	-42.71	-74.9	-69.80	1.82	18.06	H
	22987	-52.62	-13	-39.62	-76.86	-66.70	1.98	18.21	H
	26818	-50.20	-13	-37.20	-77.04	-64.61	2.17	18.74	H
									H
	7582	-47.51	-13	-34.51	-73.89	-54.47	2.00	11.12	V
	11373	-41.94	-13	-28.94	-73.36	-48.64	2.49	11.35	V
	15164	-37.43	-13	-24.43	-72.06	-45.96	3.04	13.72	V
	19156	-56.38	-13	-43.38	-74.87	-70.47	1.82	18.06	V
	22987	-52.74	-13	-39.74	-77	-66.82	1.98	18.21	V
	26818	-48.64	-13	-35.64	-76.96	-63.05	2.17	18.74	V
									V

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



**EN-DC 66A-n77A (HPUE)**

EN-DC 66A-n77A / 100MHz / PI/2 BPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7582	-47.42	-13	-34.42	-73.84	-54.38	2.00	11.12	H
	11373	-41.71	-13	-28.71	-73.28	-48.41	2.49	11.35	H
	15164	-35.50	-13	-22.50	-72.13	-44.03	3.04	13.72	H
	19156	-55.05	-13	-42.05	-74.24	-69.14	1.82	18.06	H
	22987	-52.02	-13	-39.02	-76.26	-66.10	1.98	18.21	H
	26818	-49.68	-13	-36.68	-76.52	-64.09	2.17	18.74	H
									H
	7582	-47.46	-13	-34.46	-73.84	-54.42	2.00	11.12	V
	11373	-37.16	-13	-24.16	-68.58	-43.86	2.49	11.35	V
	15164	-37.64	-13	-24.64	-72.27	-46.17	3.04	13.72	V
	19156	-56.38	-13	-43.38	-74.87	-70.47	1.82	18.06	V
	22987	-52.84	-13	-39.84	-77.1	-66.92	1.98	18.21	V
	26818	-48.78	-13	-35.78	-77.1	-63.19	2.17	18.74	V
									V

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