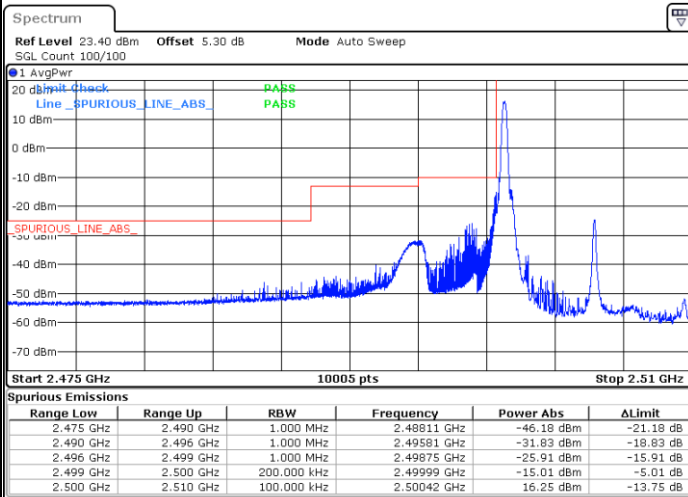




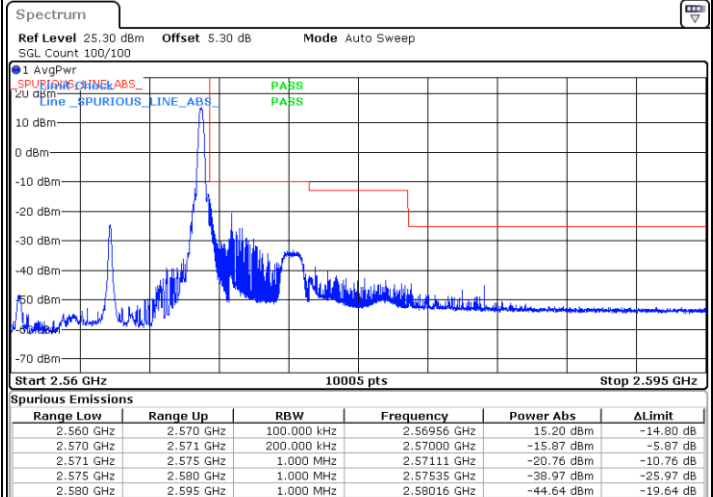
FR1 n7 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



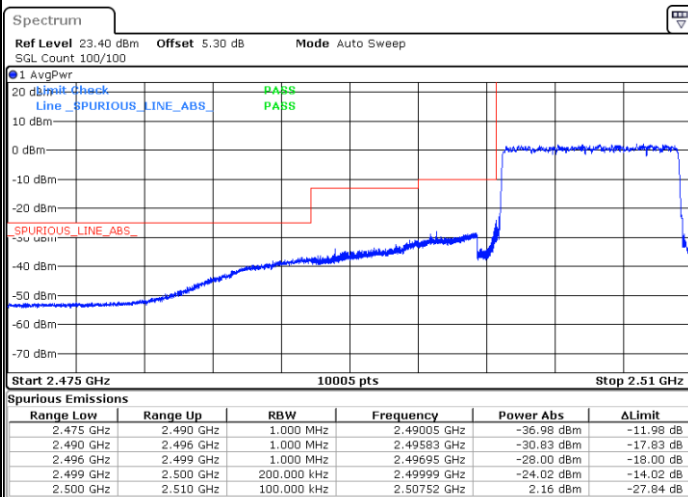
Date: 25.AUG.2020 11:09:01



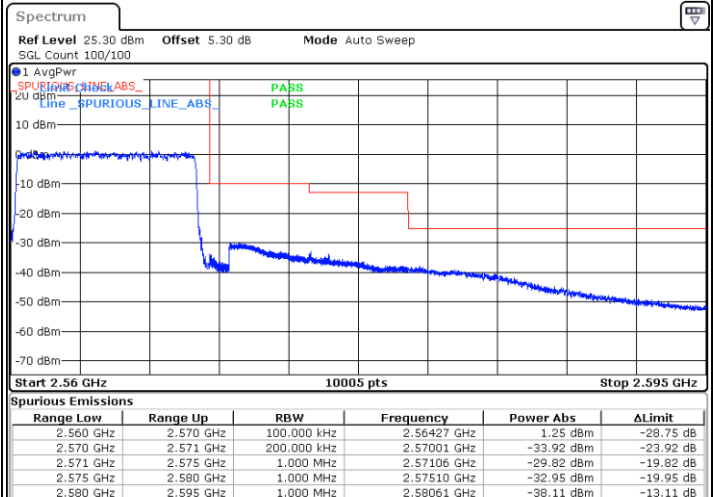
Date: 25.AUG.2020 11:49:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.AUG.2020 11:04:35



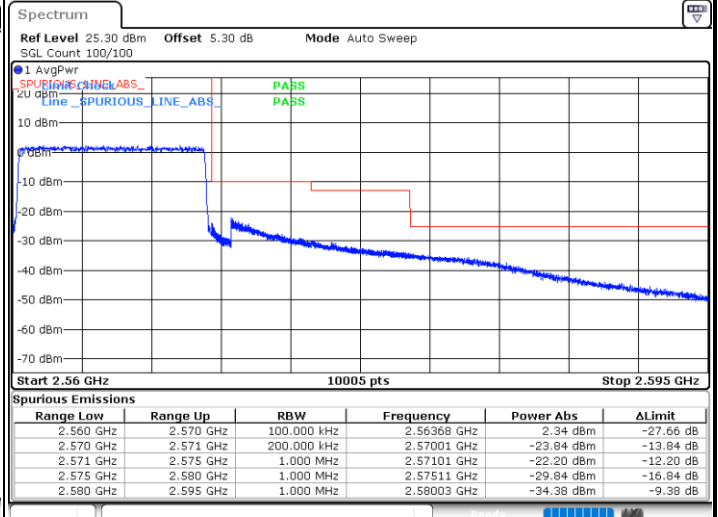
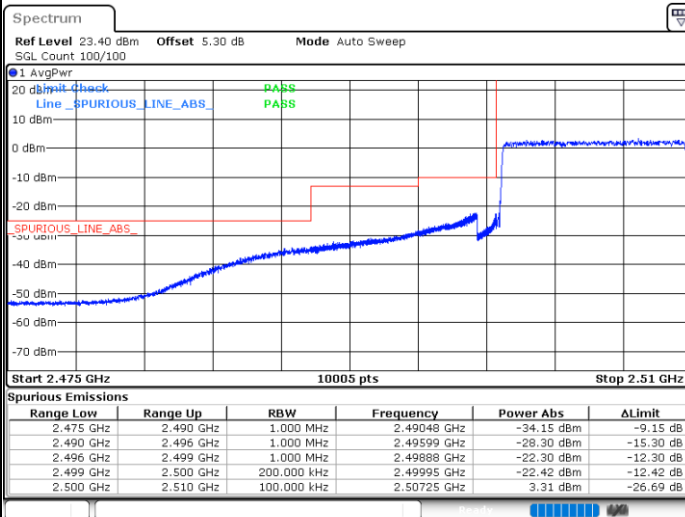
Date: 25.AUG.2020 11:48:53



FR1 n7 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

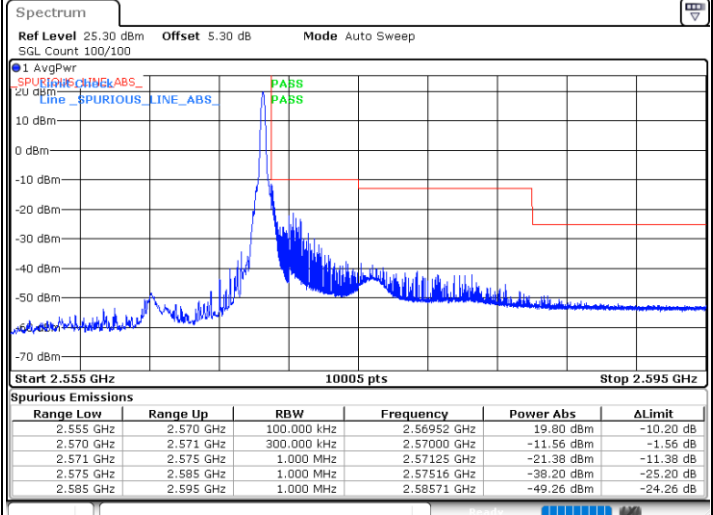
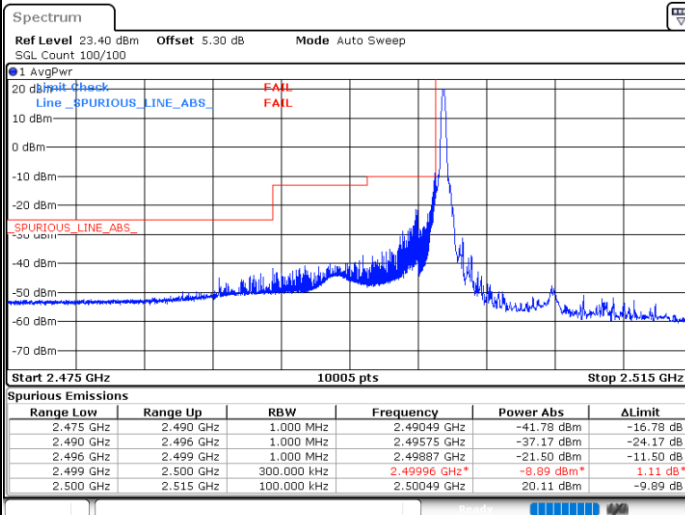




FR1 n7 / 15MHz / DFT-s-OFDM / PI/2 BPSK

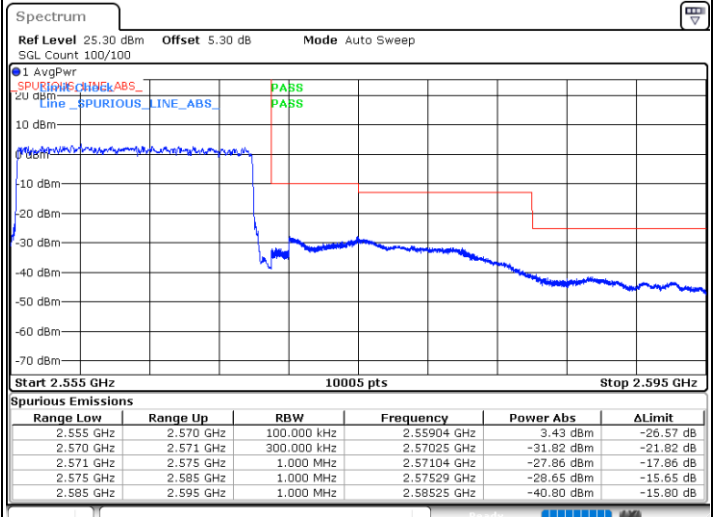
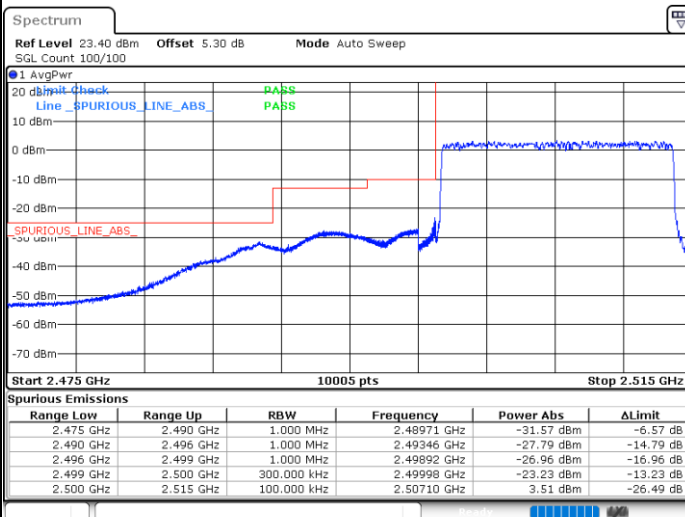
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

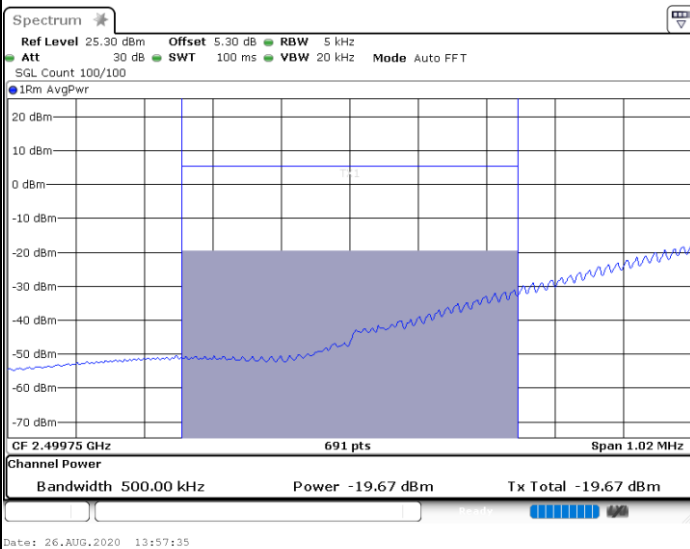




FR1 n7 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Channel Power -19.67dBm < -10dBm (Pass)

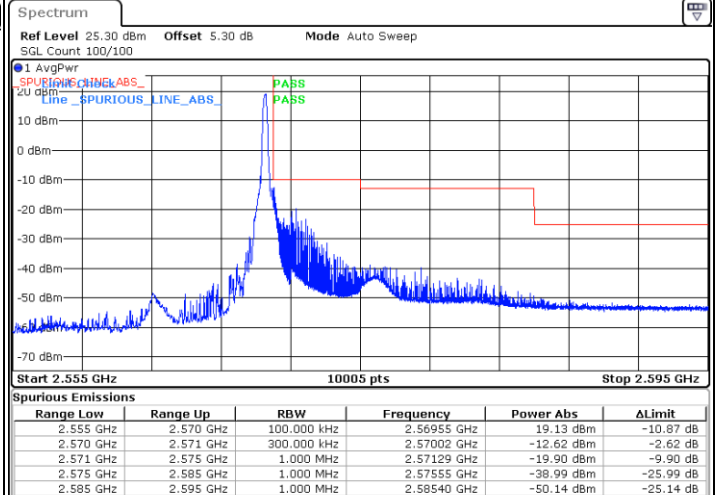
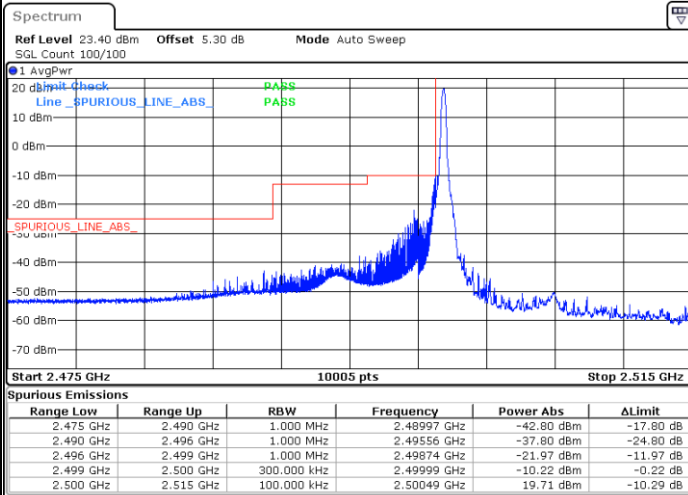




FR1 n7 / 15MHz / DFT-s-OFDM / QPSK

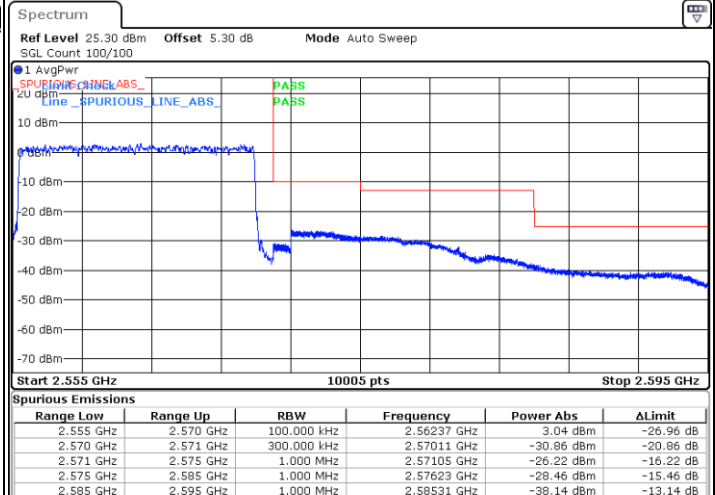
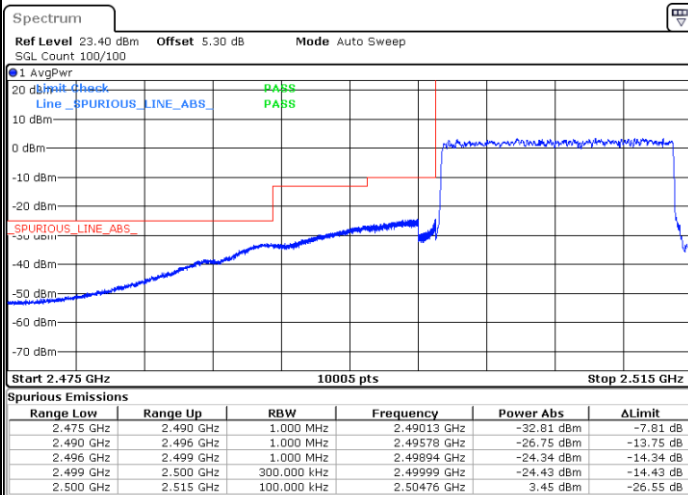
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

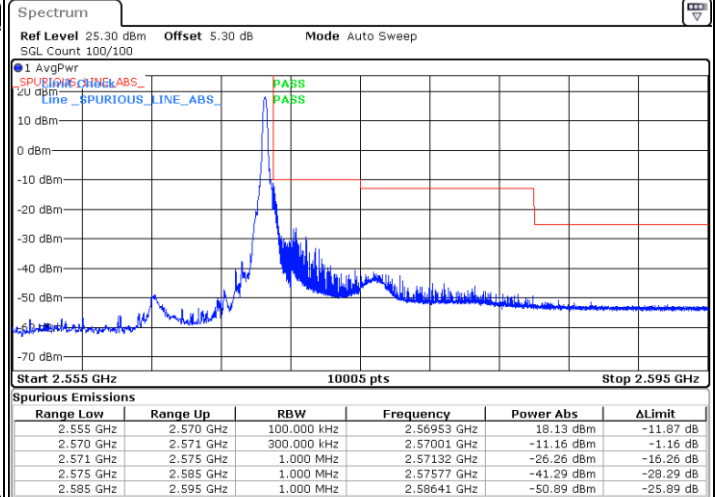
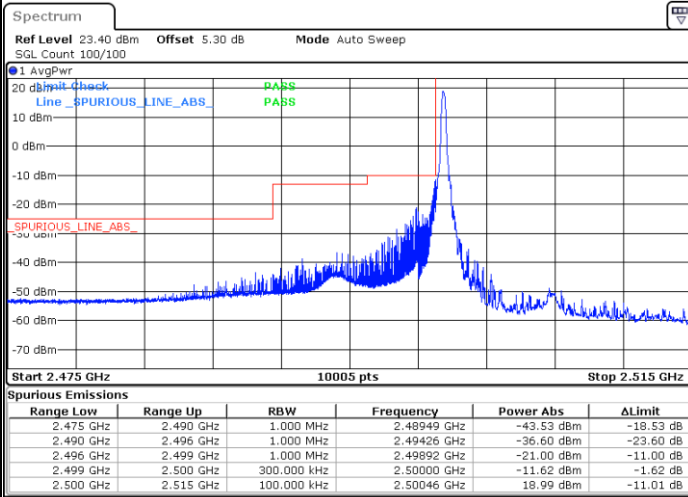




FR1 n7 / 15MHz / DFT-s-OFDM / 16QAM

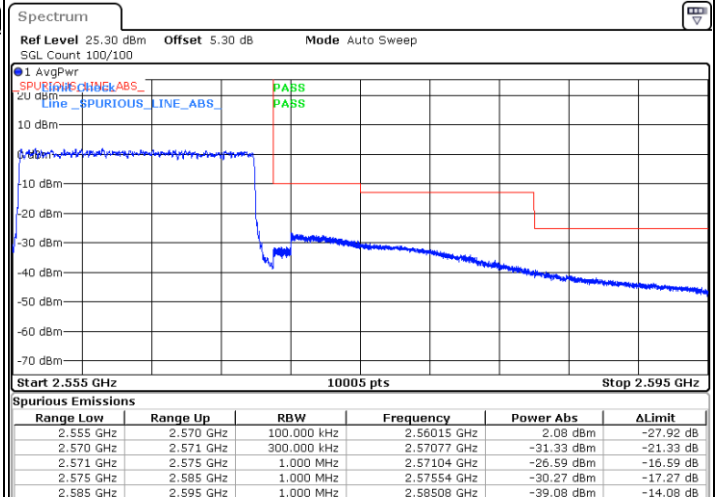
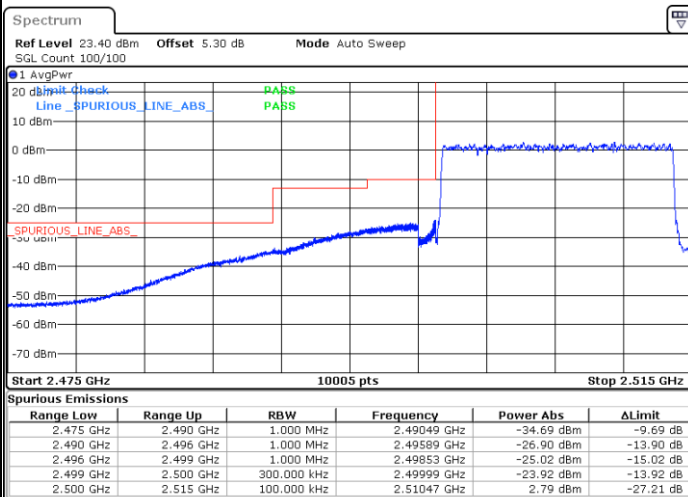
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

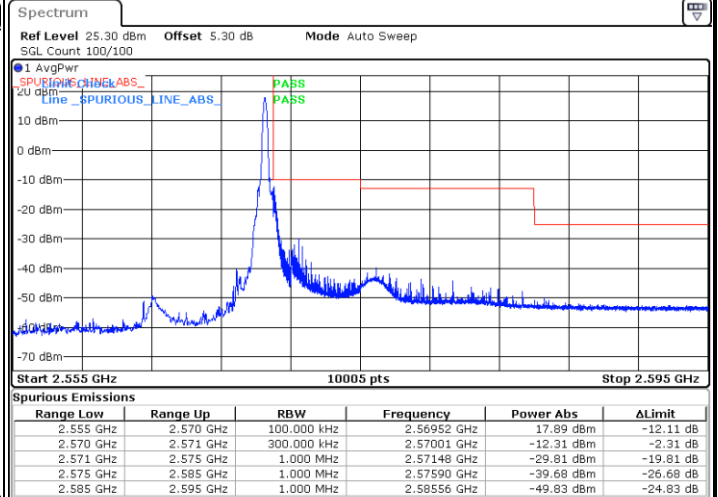
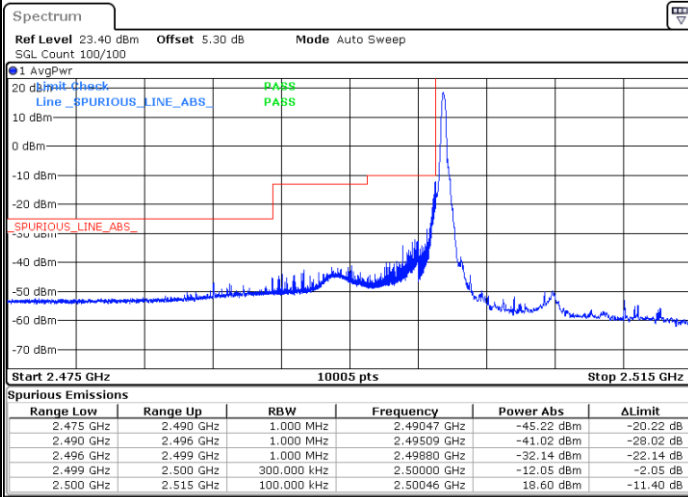




FR1 n7 / 15MHz / DFT-s-OFDM / 64QAM

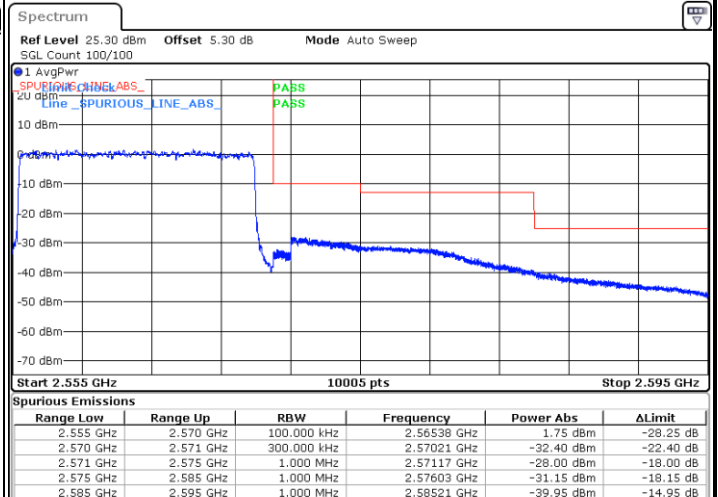
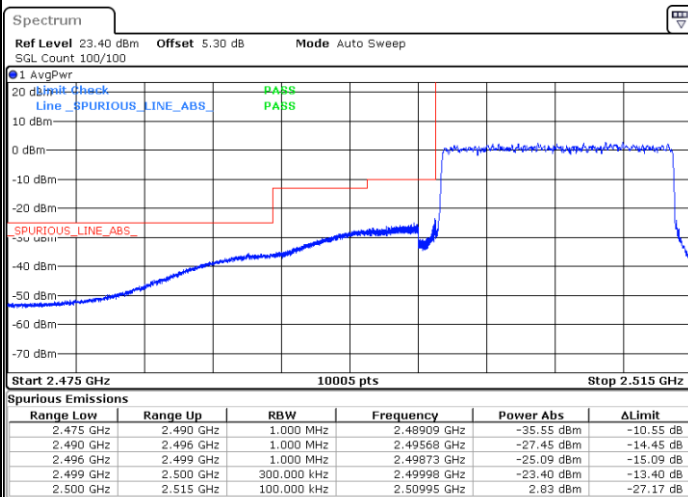
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

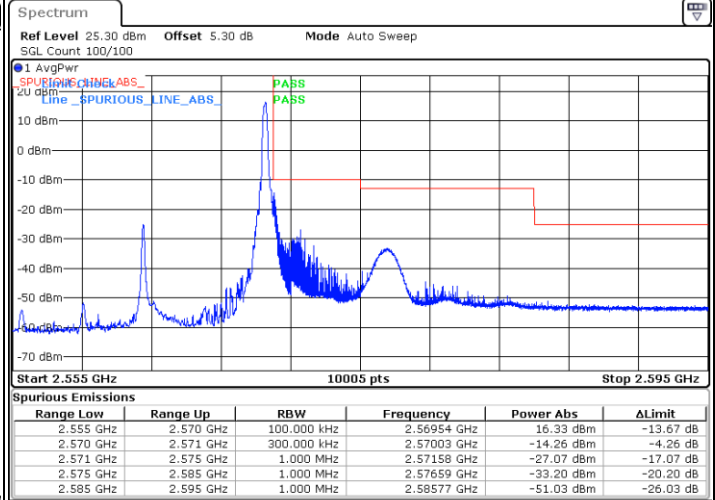
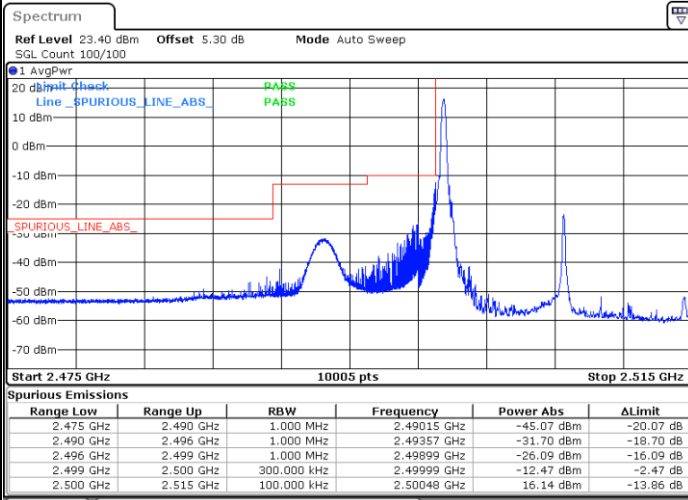




FR1 n7 / 15MHz / DFT-s-OFDM / 256QAM

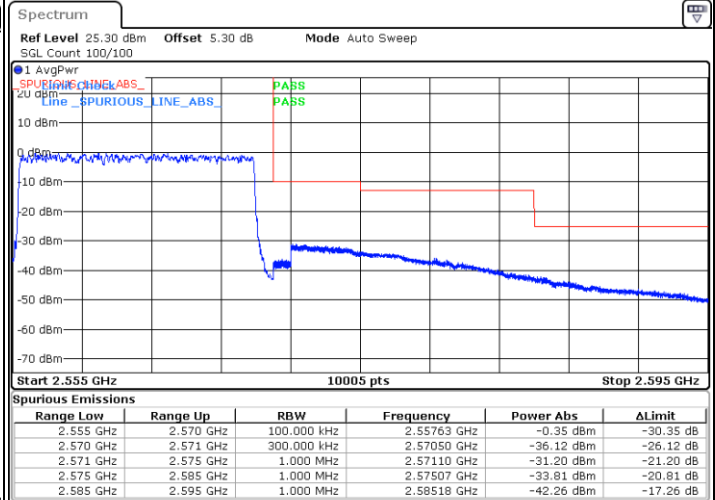
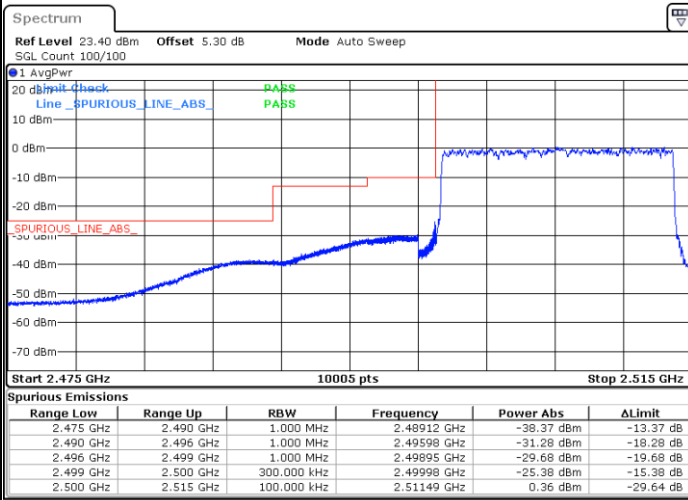
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

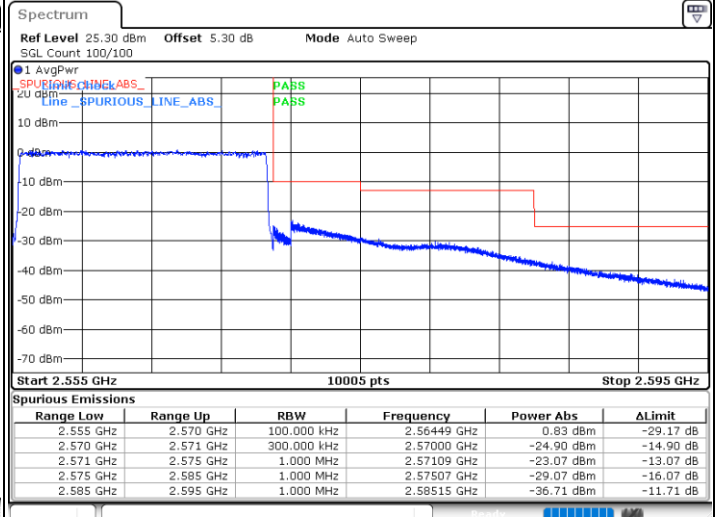
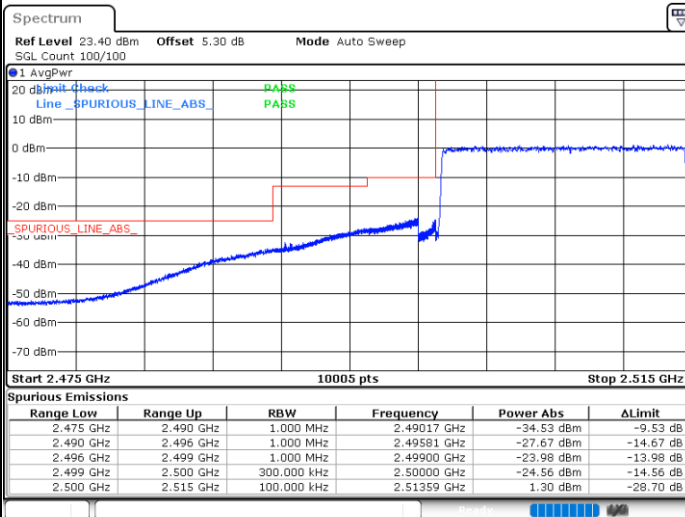




FR1 n7 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

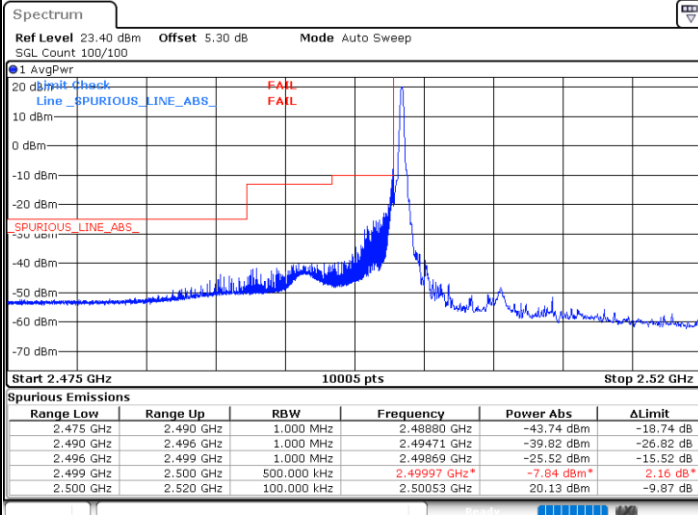




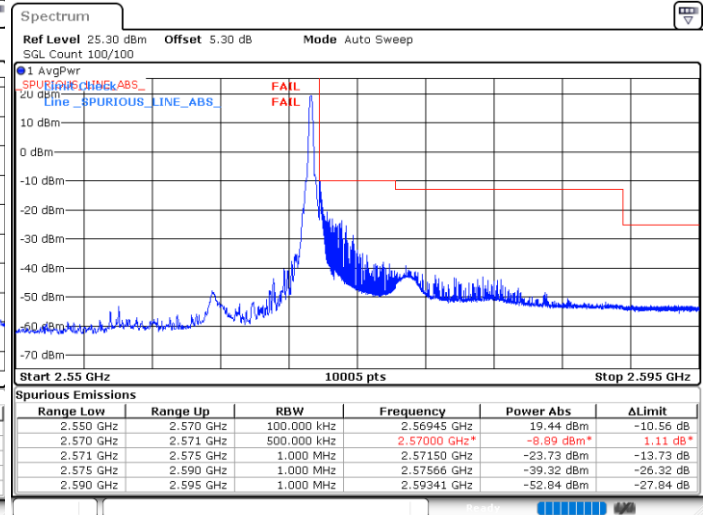
FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



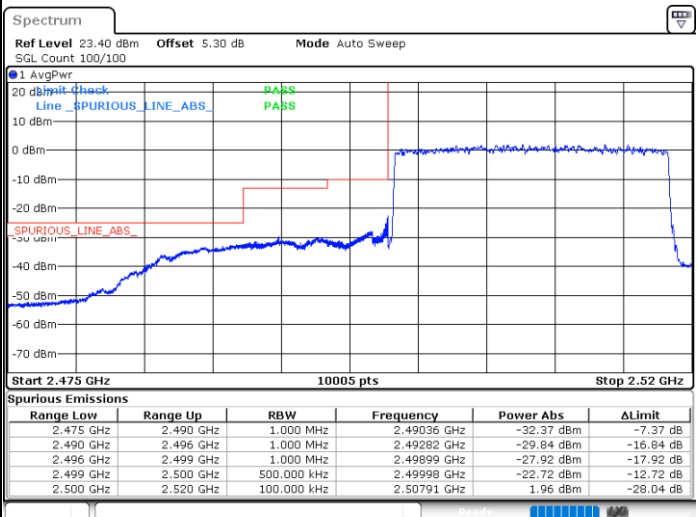
Date: 25.AUG.2020 11:21:01



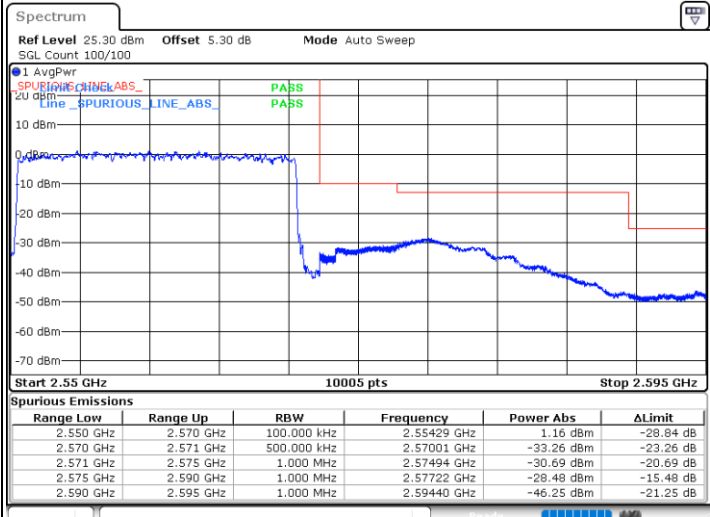
Date: 25.AUG.2020 11:23:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.AUG.2020 11:16:41



Date: 25.AUG.2020 11:32:11



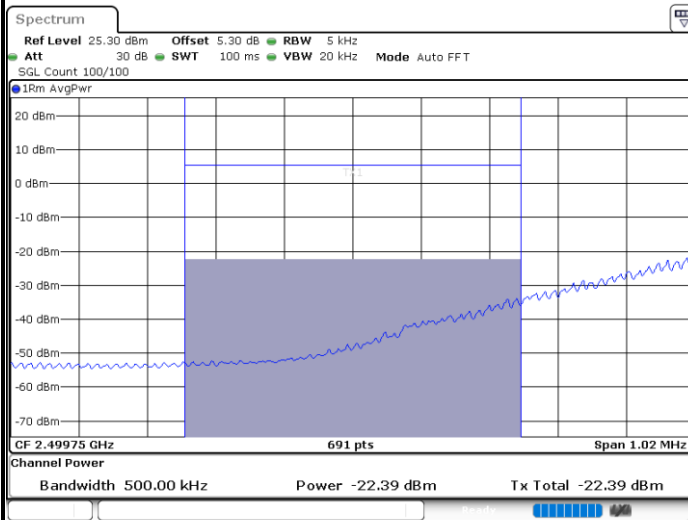
FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

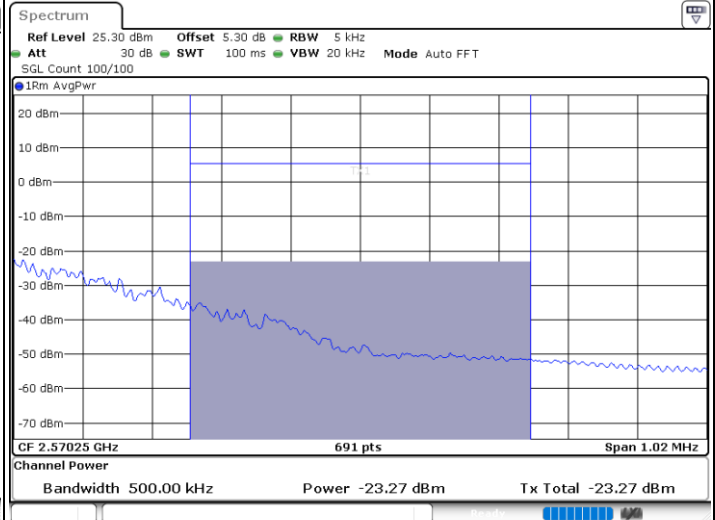
Channel Power -22.39dBm < -10dBm (Pass)

Highest Band Edge / 1RBmax

Channel Power -23.27dBm < -10dBm (Pass)



Date: 25.AUG.2020 14:19:44



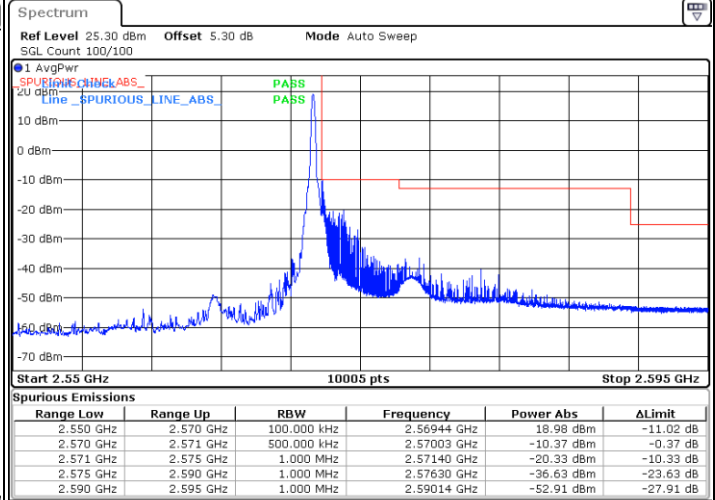
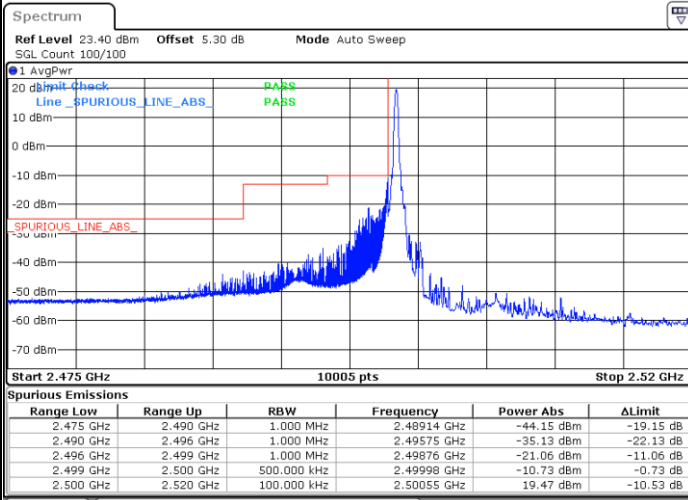
Date: 25.AUG.2020 14:16:05



FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

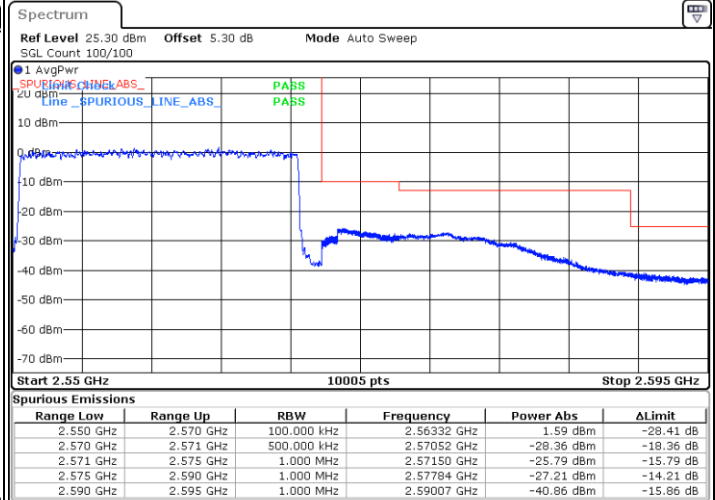
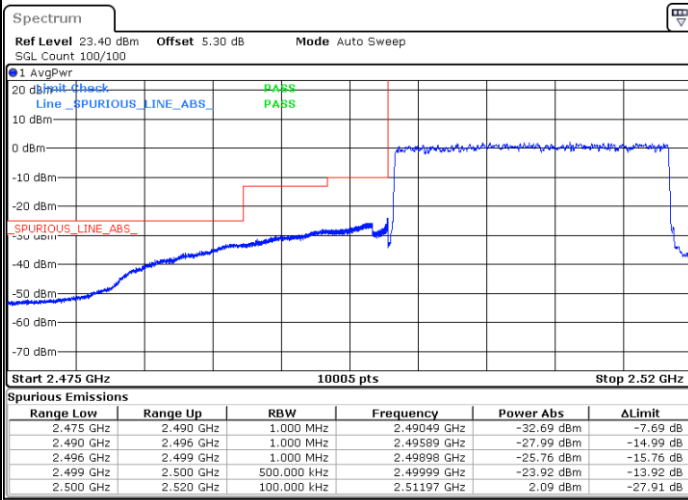
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

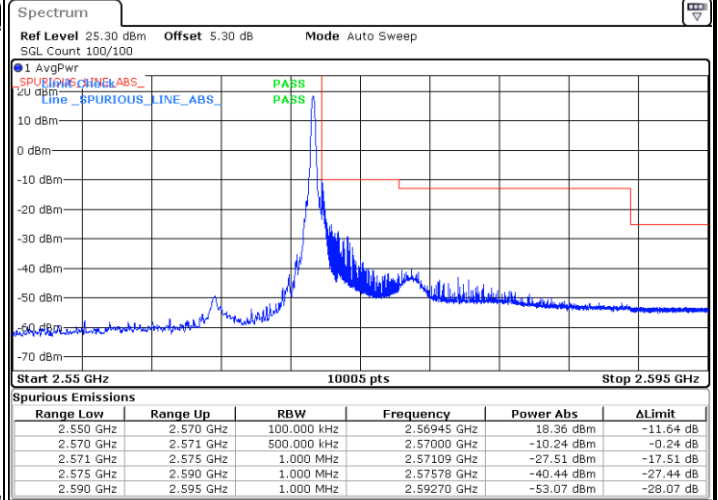
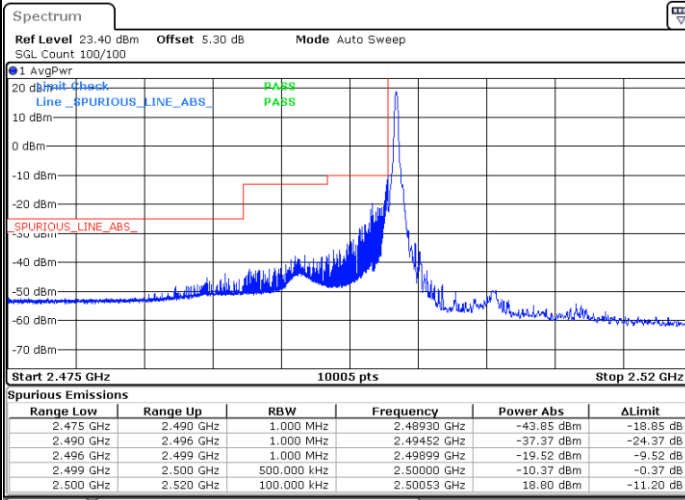




FR1 n7 / 20MHz / DFT-s-OFDM / 16QAM

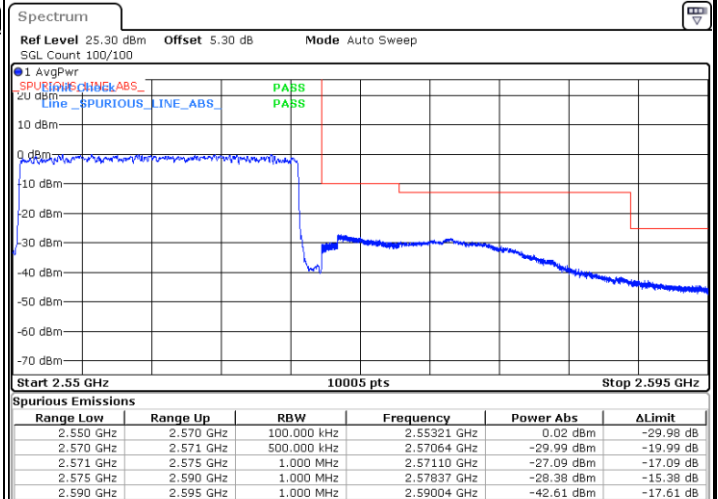
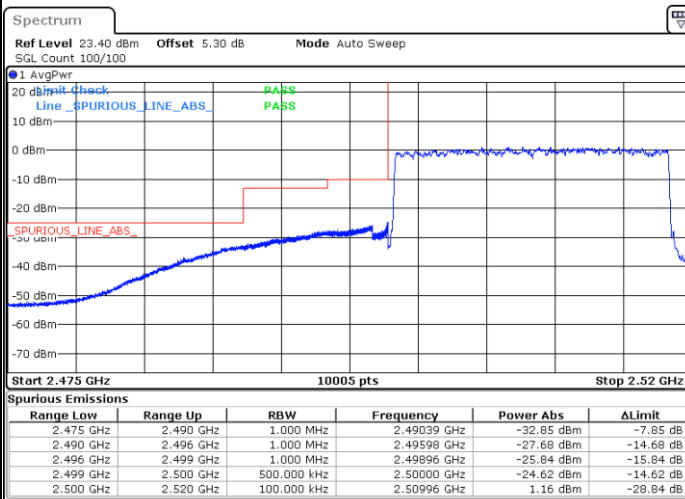
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

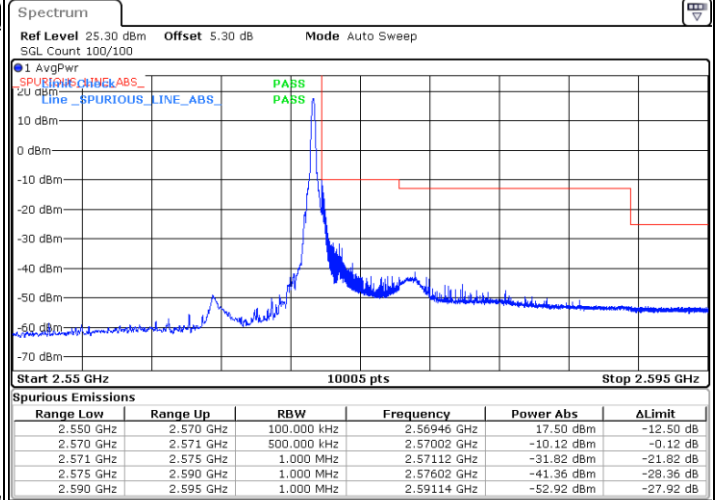
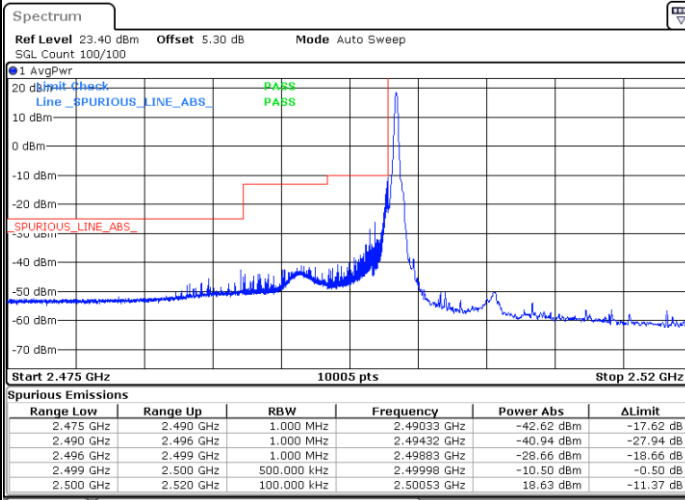




FR1 n7 / 20MHz / DFT-s-OFDM / 64QAM

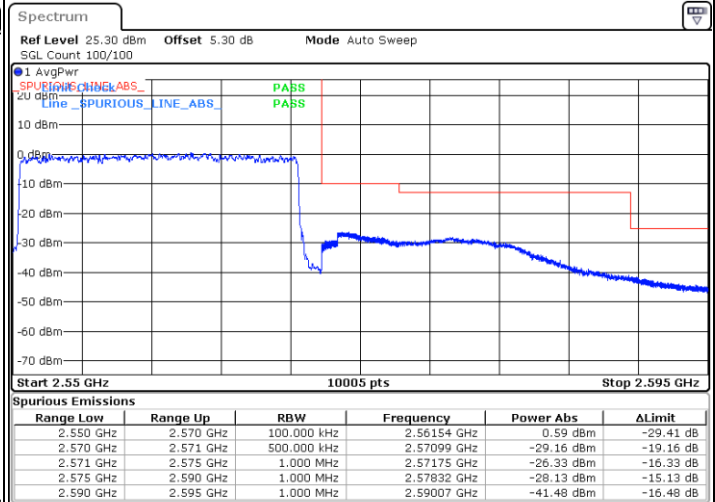
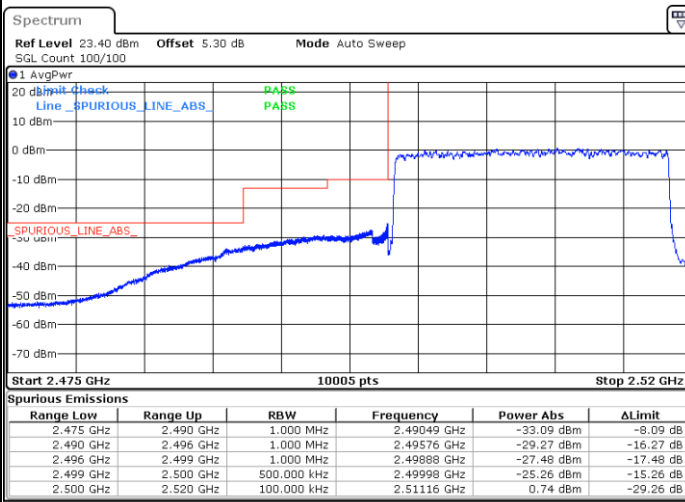
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

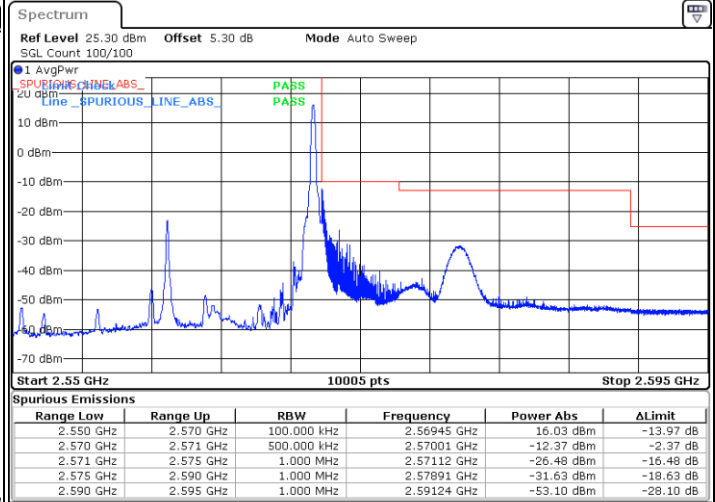
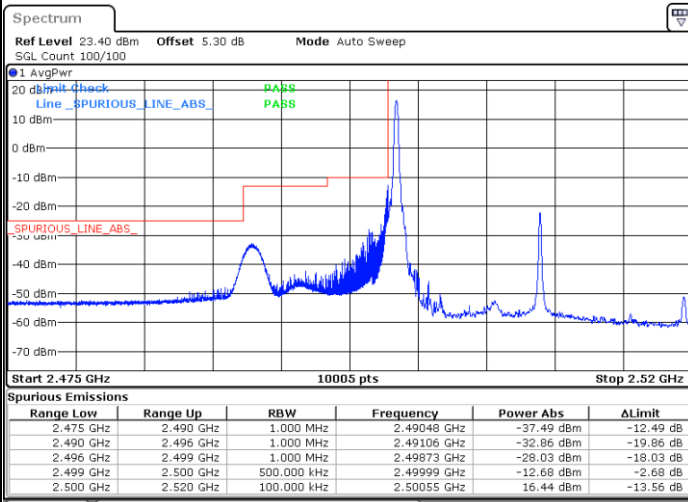




FR1 n7 / 20MHz / DFT-s-OFDM / 256QAM

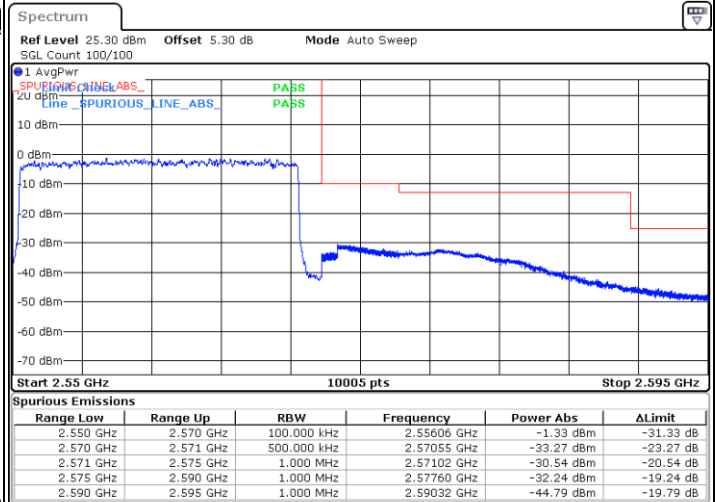
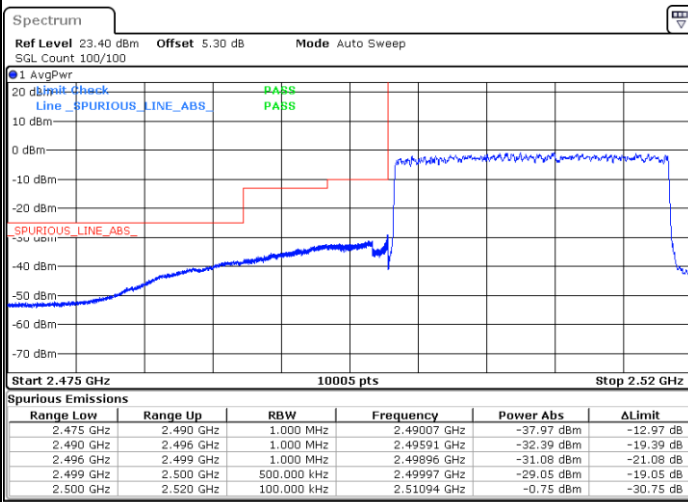
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

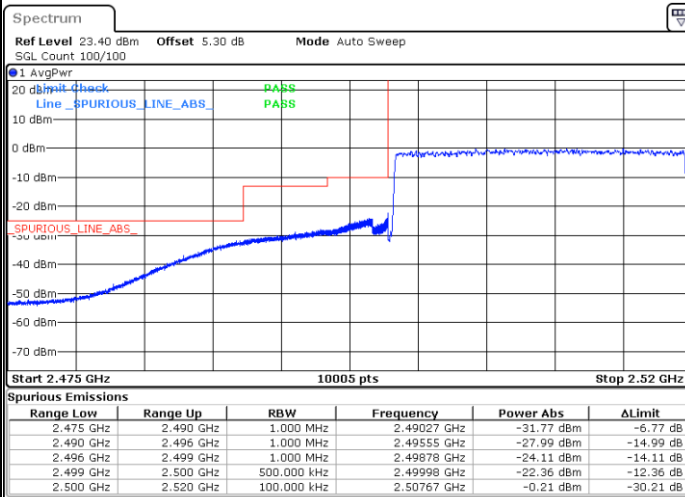




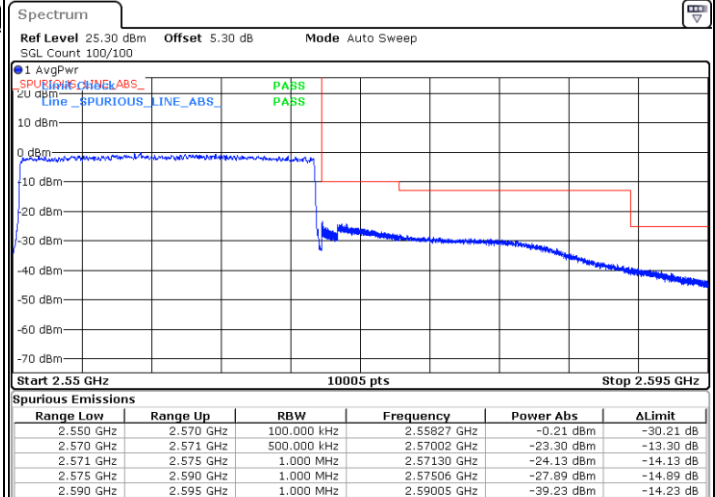
FR1 n7 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.AUG.2020 11:15:49



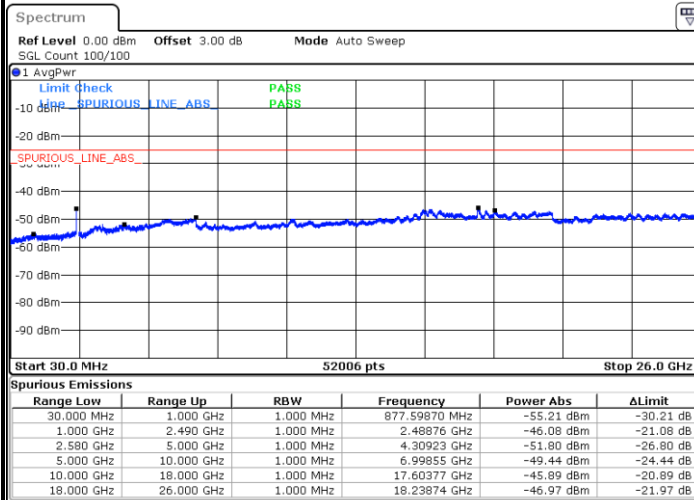
Date: 25.AUG.2020 11:32:44



Conducted Spurious Emission

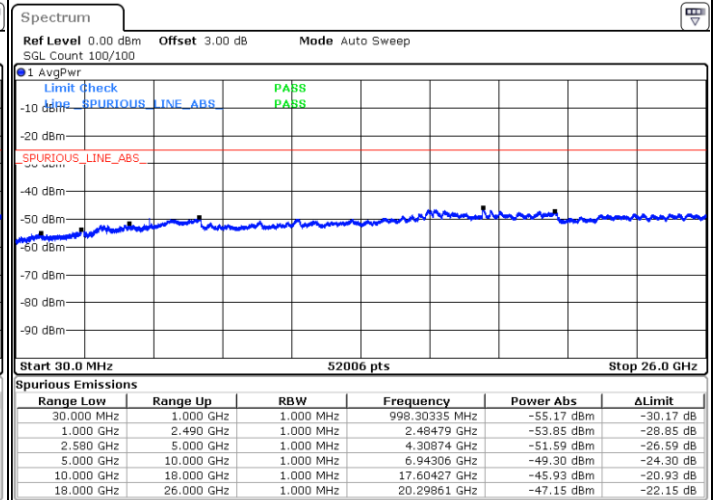
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



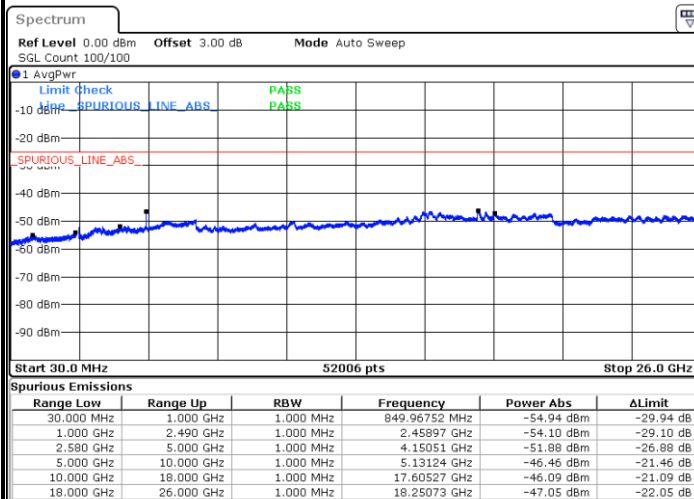
Date: 24.AUG.2020 19:03:11

Middle Channel / 1RB1



Date: 24.AUG.2020 18:59:55

Highest Channel / 1RB1

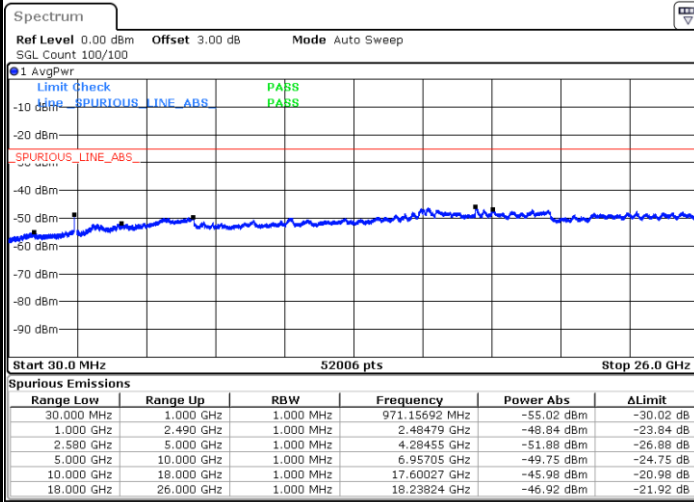


Date: 24.AUG.2020 19:05:38



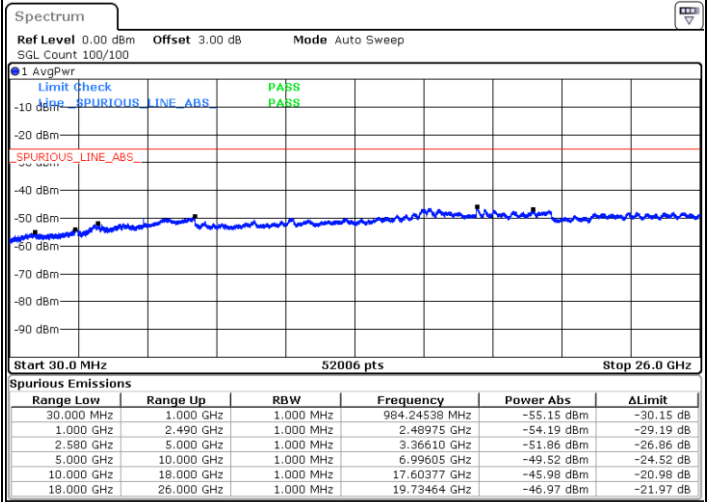
FR1 n7 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



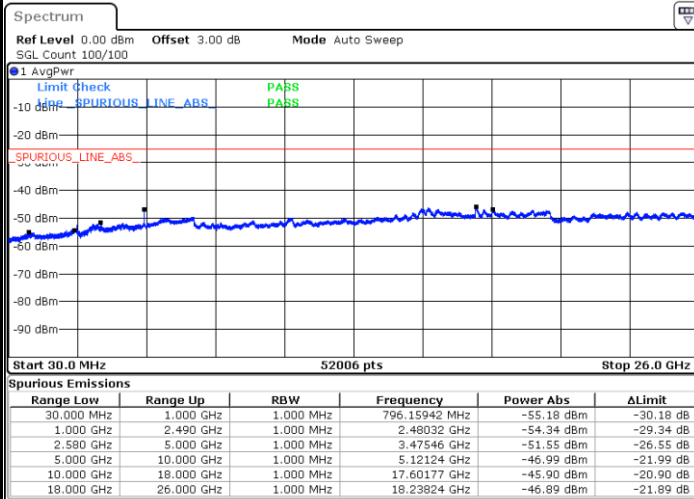
Date: 24.AUG.2020 19:07:59

Middle Channel / 1RB1



Date: 24.AUG.2020 19:10:11

Highest Channel / 1RB1

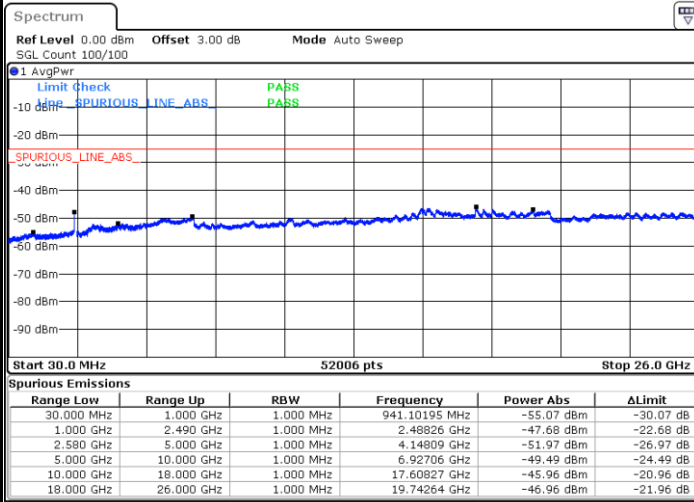


Date: 24.AUG.2020 19:12:38



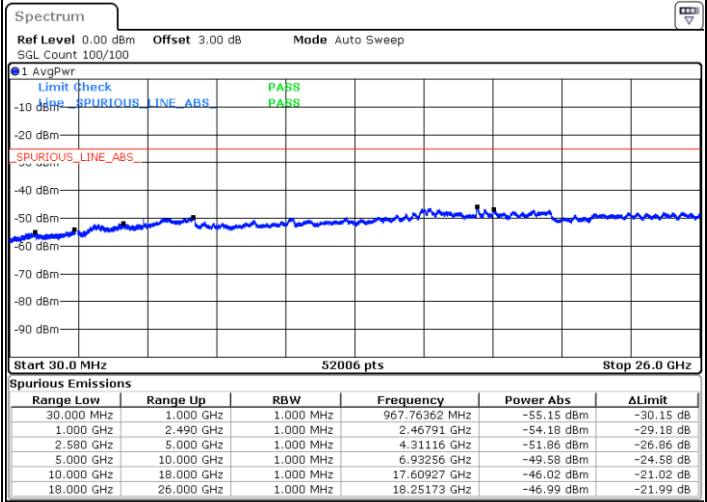
FR1 n7 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



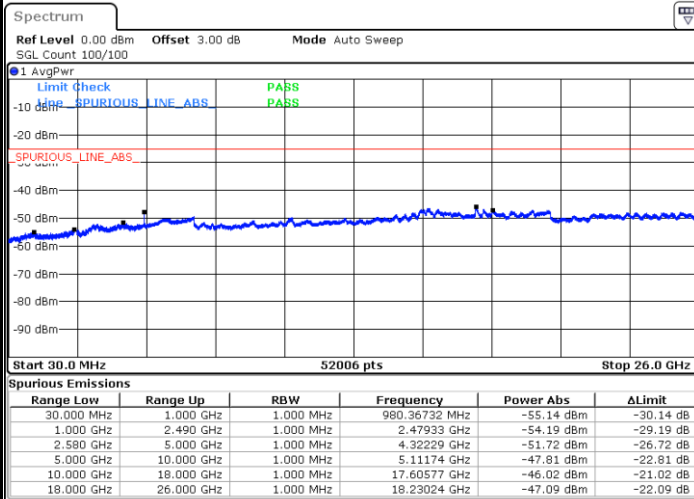
Date: 24.AUG.2020 19:14:45

Middle Channel / 1RB1



Date: 24.AUG.2020 19:16:28

Highest Channel / 1RB1

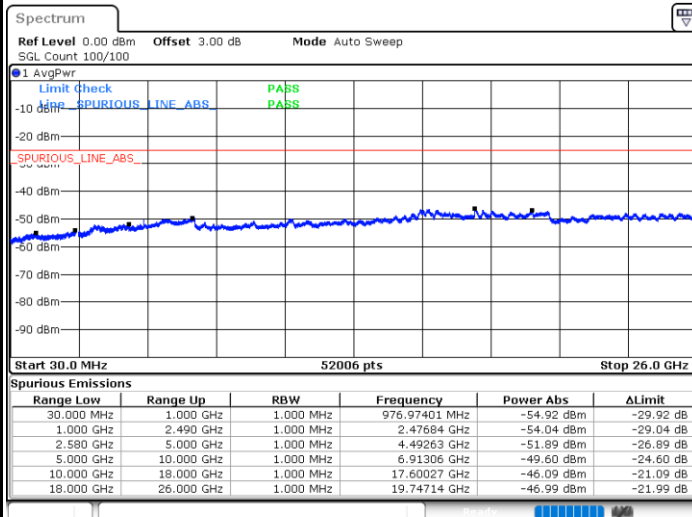


Date: 24.AUG.2020 19:18:12



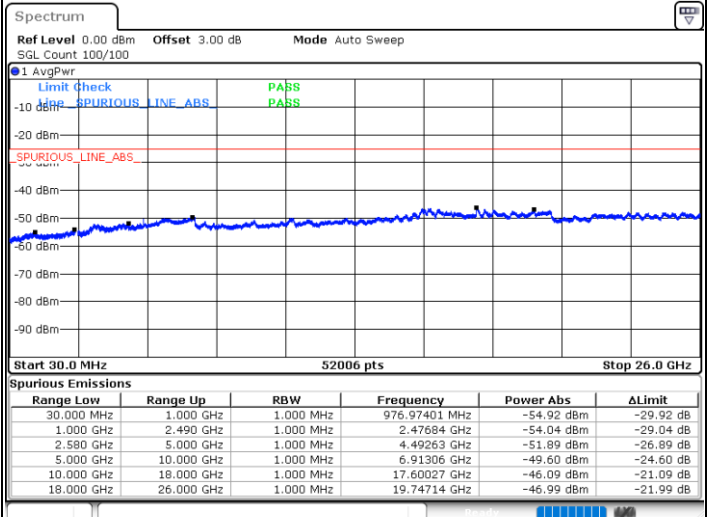
FR1 n7 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



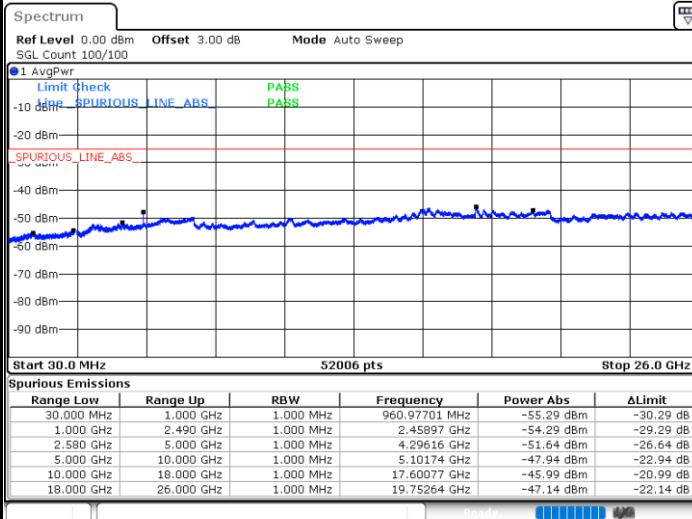
Date: 24.AUG.2020 19:24:35

Middle Channel / 1RB1



Date: 24.AUG.2020 19:24:35

Highest Channel / 1RB1



Date: 24.AUG.2020 19:26:21

Frequency Stability

Test Conditions		FR1 n7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0355	PASS
40	Normal Voltage	0.9783	
30	Normal Voltage	0.0710	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	1.0769	
0	Normal Voltage	0.0079	
-10	Normal Voltage	0.1065	
-20	Normal Voltage	0.9901	
-30	Normal Voltage	0.0947	
20	Maximum Voltage	0.1262	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0828	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of EIRP and Radiated Test

EIRP

<CP-OFDM>

NR n7 / 5MHz (Average) (GT - LC = 2.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	1	22.45	0.1758	25.00	0.3163
Middle		1	1	22.38	0.1730	24.93	0.3112
Highest		1	1	22.25	0.1679	24.80	0.3020
Lowest	16QAM	1	1	21.84	0.1528	24.39	0.2748
Middle		1	1	21.82	0.1521	24.37	0.2736
Highest		1	1	21.63	0.1456	24.18	0.2619
Lowest	64QAM	1	1	20.23	0.1055	22.78	0.1897
Middle		1	1	20.39	0.1094	22.94	0.1968
Highest		1	1	20.13	0.1031	22.68	0.1854
Lowest	256QAM	1	1	17.09	0.0512	19.64	0.0921
Middle		1	1	17.15	0.0519	19.70	0.0934
Highest		1	1	16.98	0.0499	19.53	0.0898
Limit	EIRP < 2W			Result		PASS	

NR n7 / 10MHz (Average) (GT - LC = 2.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	1	22.42	0.1746	24.97	0.3141
Middle		1	1	22.40	0.1738	24.95	0.3127
Highest		1	1	22.22	0.1668	24.77	0.3000
Lowest	16QAM	1	1	22.01	0.1589	24.56	0.2858
Middle		1	1	21.81	0.1518	24.36	0.2729
Highest		1	1	21.69	0.1476	24.24	0.2655
Lowest	64QAM	1	1	20.53	0.1130	23.08	0.2033
Middle		1	1	20.18	0.1043	22.73	0.1875
Highest		1	1	20.20	0.1048	22.75	0.1884
Lowest	256QAM	1	1	17.07	0.0510	19.62	0.0917
Middle		1	1	17.09	0.0512	19.64	0.0921
Highest		1	1	16.99	0.0501	19.54	0.0900
Limit	EIRP < 2W			Result		PASS	



NR n7 / 15MHz (Average) (GT - LC = 2.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	1	22.56	0.1804	25.11	0.3244
Middle		1	1	22.54	0.1795	25.09	0.3229
Highest		1	1	22.36	0.1722	24.91	0.3098
Lowest	16QAM	1	1	21.95	0.1567	24.50	0.2819
Middle		1	1	22.06	0.1607	24.61	0.2891
Highest		1	1	21.82	0.1521	24.37	0.2736
Lowest	64QAM	1	1	20.31	0.1074	22.86	0.1932
Middle		1	1	20.43	0.1105	22.98	0.1987
Highest		1	1	20.41	0.1100	22.96	0.1977
Lowest	256QAM	1	1	17.08	0.0511	19.63	0.0919
Middle		1	1	17.17	0.0522	19.72	0.0938
Highest		1	1	16.95	0.0496	19.50	0.0892
Limit	EIRP < 2W			Result		PASS	

NR n7 / 20MHz (Average) (GT - LC = 2.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	1	22.40	0.1738	24.95	0.3127
Middle		1	1	22.55	0.1799	25.10	0.3236
Highest		1	1	22.27	0.1687	24.82	0.3034
Lowest	16QAM	1	1	21.95	0.1567	24.50	0.2819
Middle		1	1	22.09	0.1619	24.64	0.2911
Highest		1	1	21.81	0.1518	24.36	0.2729
Lowest	64QAM	1	1	20.30	0.1072	22.85	0.1928
Middle		1	1	20.43	0.1105	22.98	0.1987
Highest		1	1	20.17	0.1040	22.72	0.1871
Lowest	256QAM	1	1	17.01	0.0503	19.56	0.0904
Middle		1	1	17.16	0.0520	19.71	0.0936
Highest		1	1	16.92	0.0493	19.47	0.0886
Limit	EIRP < 2W			Result		PASS	



<DFT-s-OFDM>

NR n7 / 5MHz (Average) (GT - LC = 2.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK	1	23	23.73	0.2361	26.28	0.4247
Middle		1	23	23.52	0.2250	26.07	0.4046
Highest		1	23	23.40	0.2188	25.95	0.3936
Lowest	QPSK	12	6	23.67	0.2329	26.22	0.4188
Middle		12	6	23.45	0.2214	26.00	0.3982
Highest		12	6	23.52	0.2250	26.07	0.4046
Lowest	16QAM	1	1	22.92	0.1959	25.47	0.3524
Middle		1	1	22.71	0.1867	25.26	0.3358
Highest		1	1	22.68	0.1854	25.23	0.3335
Lowest	64QAM	1	1	21.21	0.1322	23.76	0.2377
Middle		1	1	21.09	0.1286	23.64	0.2313
Highest		1	1	21.17	0.1310	23.72	0.2356
Lowest	256QAM	1	1	19.05	0.0804	21.60	0.1446
Middle		1	1	19.08	0.0810	21.63	0.1456
Highest		1	1	18.98	0.0791	21.53	0.1423
Limit	EIRP < 2W			Result		PASS	

NR n7 / 10MHz (Average) (GT - LC = 2.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK	25	12	23.88	0.2444	26.43	0.4396
Middle		25	12	23.71	0.2350	26.26	0.4227
Highest		25	12	23.71	0.2350	26.26	0.4227
Lowest	QPSK	25	12	23.84	0.2422	26.39	0.4356
Middle		25	12	23.64	0.2313	26.19	0.4160
Highest		25	12	23.72	0.2356	26.27	0.4237
Lowest	16QAM	1	1	22.92	0.1959	25.47	0.3524
Middle		1	1	22.85	0.1928	25.40	0.3468
Highest		1	1	22.76	0.1888	25.31	0.3397
Lowest	64QAM	1	1	21.25	0.1334	23.80	0.2399
Middle		1	1	21.30	0.1349	23.85	0.2427
Highest		1	1	21.07	0.1280	23.62	0.2302
Lowest	256QAM	1	1	18.94	0.0784	21.49	0.1410
Middle		1	1	19.10	0.0813	21.65	0.1463
Highest		1	1	18.96	0.0788	21.51	0.1416
Limit	EIRP < 2W			Result		PASS	



NR n7 / 15MHz (Average) (GT - LC = 2.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK	1	77	23.96	0.2489	26.51	0.4478
Middle		1	77	23.55	0.2265	26.10	0.4074
Highest		1	77	23.54	0.2260	26.09	0.4065
Lowest	QPSK	1	77	23.91	0.2461	26.46	0.4426
Middle		1	77	23.61	0.2297	26.16	0.4131
Highest		1	77	23.52	0.2250	26.07	0.4046
Lowest	16QAM	1	1	23.03	0.2010	25.58	0.3615
Middle		1	1	23.13	0.2056	25.68	0.3699
Highest		1	1	22.83	0.1919	25.38	0.3452
Lowest	64QAM	1	1	21.41	0.1384	23.96	0.2489
Middle		1	1	21.38	0.1375	23.93	0.2472
Highest		1	1	21.13	0.1298	23.68	0.2334
Lowest	256QAM	1	1	19.03	0.0800	21.58	0.1439
Middle		1	1	19.11	0.0815	21.66	0.1466
Highest		1	1	18.91	0.0779	21.46	0.1400
Limit	EIRP < 2W			Result		PASS	

NR n7 / 20MHz (Average) (GT - LC = 2.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK	50	25	23.95	0.2484	26.50	0.4467
Middle		50	25	23.80	0.2399	26.35	0.4316
Highest		50	25	23.68	0.2334	26.23	0.4198
Lowest	QPSK	50	25	23.99	0.2507	26.54	0.4509
Middle		50	25	23.77	0.2383	26.32	0.4286
Highest		50	25	23.71	0.2350	26.26	0.4227
Lowest	16QAM	1	1	22.98	0.1987	25.53	0.3573
Middle		1	1	23.01	0.2000	25.56	0.3598
Highest		1	1	22.83	0.1919	25.38	0.3452
Lowest	64QAM	1	1	21.31	0.1353	23.86	0.2433
Middle		1	1	21.48	0.1407	24.03	0.2530
Highest		1	1	21.22	0.1325	23.77	0.2383
Lowest	256QAM	1	1	18.96	0.0788	21.51	0.1416
Middle		1	1	19.08	0.0810	21.63	0.1456
Highest		1	1	18.66	0.0735	21.21	0.1322
Limit	EIRP < 2W			Result		PASS	

**Radiated Spurious Emission****EN-DC 5-n7**

EN-DC 5_n7 / 20MHz / 1RB1									
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	5002	-55.80	-25	-30.80	-50.24	-66.55	1.95	12.70	H
	7500	-46.58	-25	-21.58	-47.58	-55.71	2.17	11.30	H
	10008	-49.11	-25	-24.11	-52.11	-57.87	2.43	11.20	H
									H
									H
									H
	5004	-55.87	-25	-30.87	-50.44	-66.62	1.95	12.70	V
	7500	-46.88	-25	-21.88	-48.01	-56.01	2.17	11.30	V
	10008	-50.08	-25	-25.08	-52.4	-58.84	2.43	11.20	V
									V
									V
									V
Middle	5052	-56.17	-25	-31.17	-50.76	-66.98	1.96	12.76	H
	7578	-48.17	-25	-23.17	-48.74	-57.23	2.22	11.28	H
	10107	-49.32	-25	-24.32	-52.27	-58.00	2.47	11.16	H
									H
									H
									H
	5050	-55.29	-25	-30.29	-49.86	-66.09	1.96	12.76	V
	7578	-42.28	-25	-17.28	-43.07	-51.34	2.22	11.28	V
	10107	-48.59	-25	-23.59	-50.96	-57.27	2.47	11.16	V
									V
									V
									V



EN-DC 5_n7 / 20MHz / 1RB1									
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)
Highest	5100	-55.04	-25	-30.04	-49.78	-65.90	1.96	12.82	H
	7656	-48.84	-25	-23.84	-49.36	-57.83	2.28	11.27	H
	10206	-48.97	-25	-23.97	-51.86	-57.57	2.52	11.12	H
									H
									H
									H
									H
	5100	-55.95	-25	-30.95	-50.54	-66.81	1.96	12.82	V
	7650	-42.01	-25	-17.01	-42.73	-51.01	2.28	11.27	V
	10206	-49.85	-25	-24.85	-52.26	-58.45	2.52	11.12	V
									V
									V
									V
									V

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

**EN-DC 66-n7**

EN-DC 66_n7 / 20MHz / 1RB1									
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)
Highest	5102	-56.06	-25	-31.06	-50.81	-66.92	1.96	12.82	H
	7650	-49.31	-25	-24.31	-49.83	-58.31	2.28	11.27	H
	10206	-49.34	-25	-24.34	-52.23	-57.94	2.52	11.12	H
									H
									H
									H
									H
	5102	-56.04	-25	-31.04	-50.63	-66.90	1.96	12.82	V
	7650	-41.04	-25	-16.04	-41.76	-50.04	2.28	11.27	V
	10206	-49.82	-25	-24.82	-52.23	-58.42	2.52	11.12	V
									V
									V
									V
									V

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

—————THE END—————