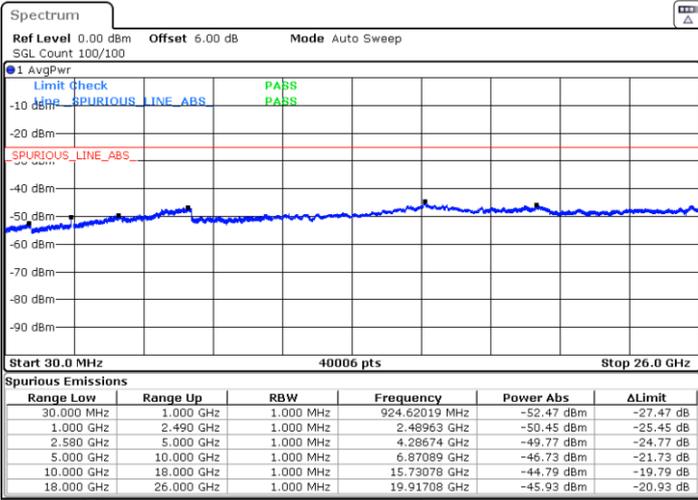




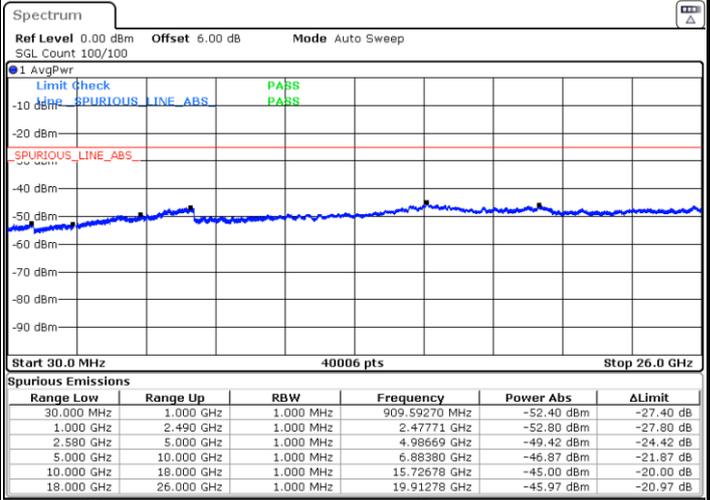
FR1 n7 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

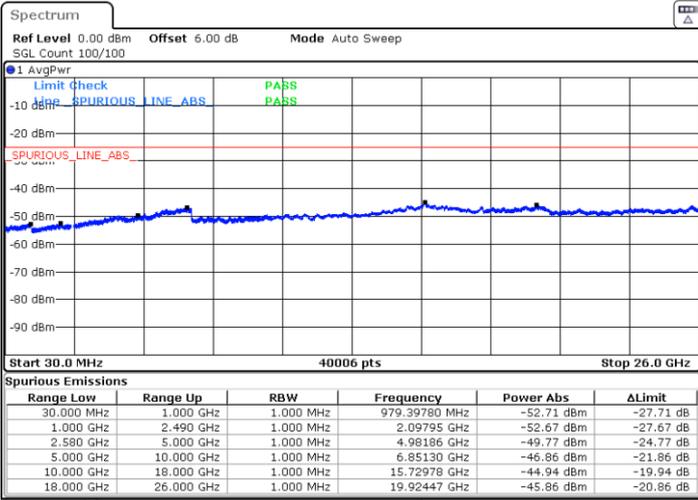


Date: 15.NOV.2020 13:06:16



Date: 15.NOV.2020 13:15:26

Highest Channel / 1RB1



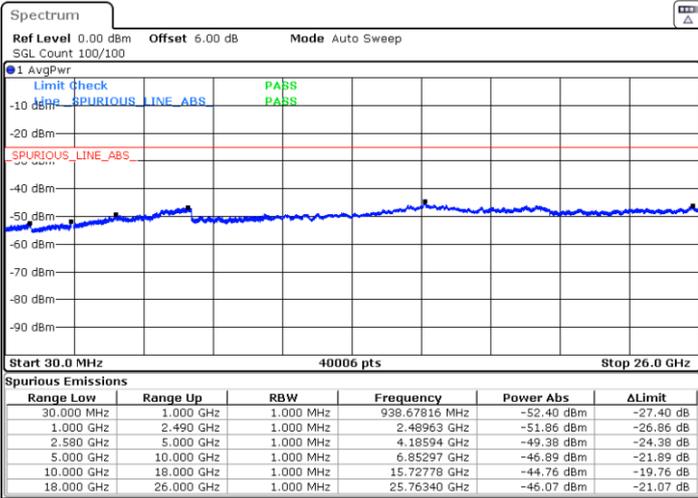
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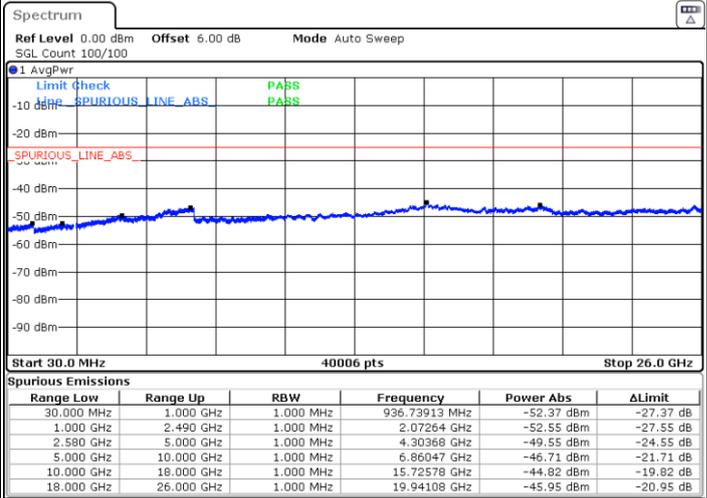
FR1 n7 / 20MHz / DFT-S OFDM / 16 QAM

Lowest Channel / 1RB1

Middle Channel / 1RB1

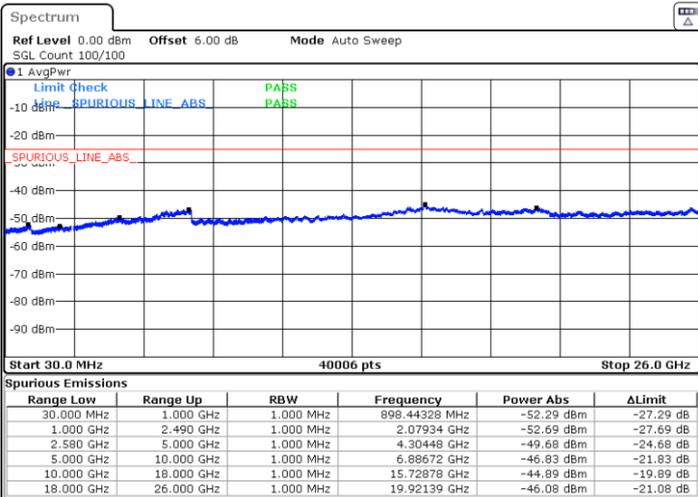


Date: 15.NOV.2020 13:07:38



Date: 15.NOV.2020 13:14:02

Highest Channel / 1RB1



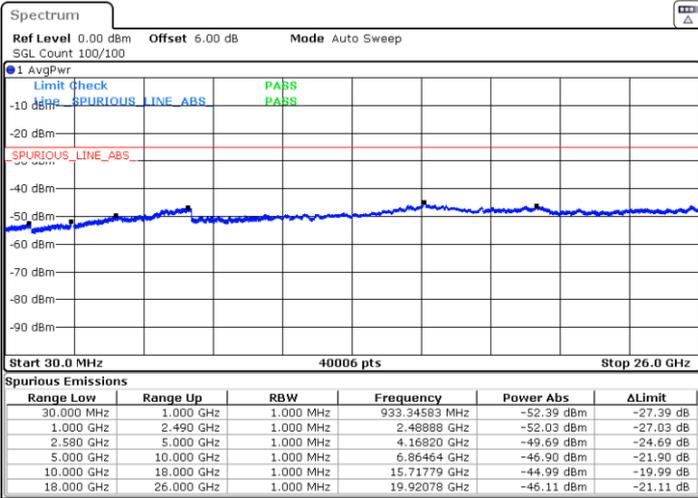
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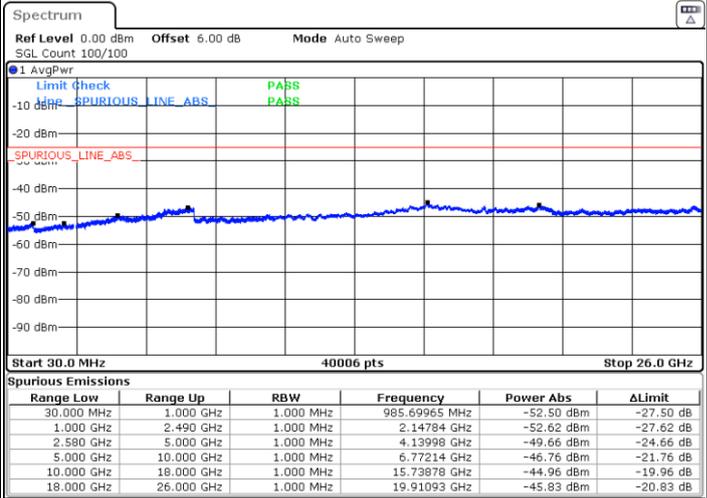
FR1 n7 / 20MHz / DFT-S OFDM / 64 QAM

Lowest Channel / 1RB1

Middle Channel / 1RB1

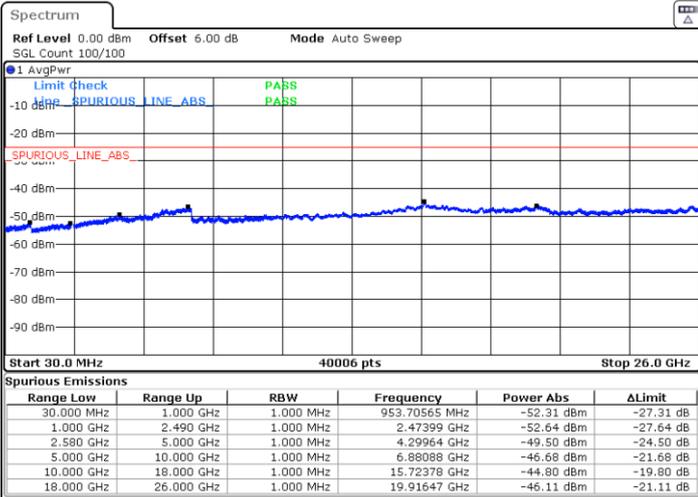


Date: 15.NOV.2020 13:09:31



Date: 15.NOV.2020 13:12:58

Highest Channel / 1RB1

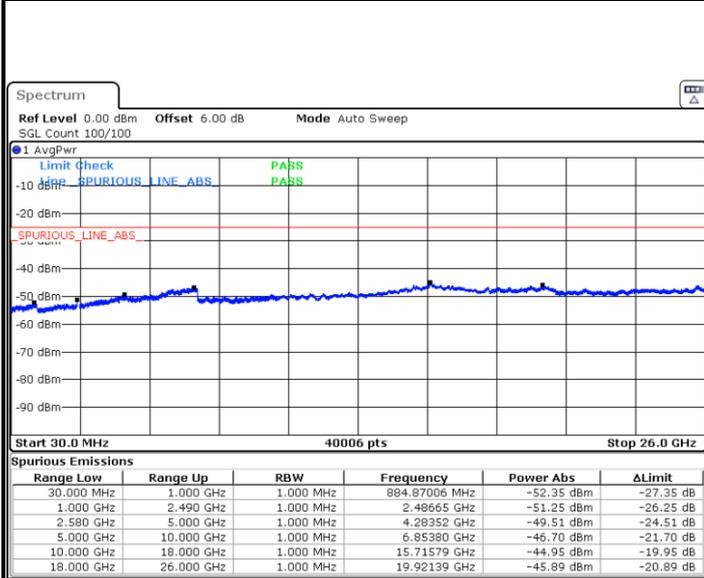


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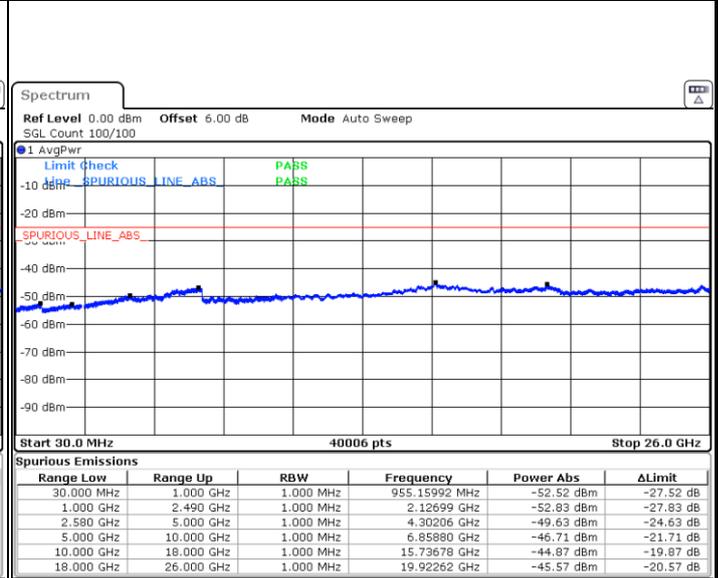
**FR1 n7 / 20MHz / DFT-S OFDM / 256 QAM**

**Lowest Channel / 1RB1**



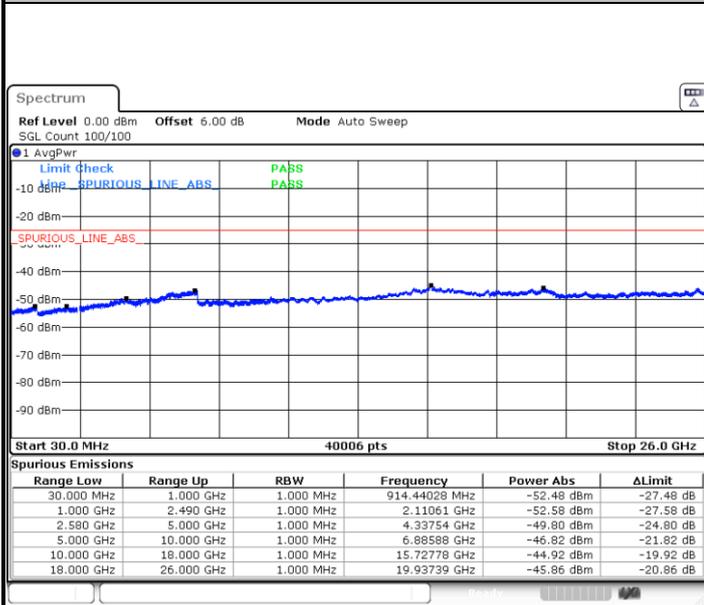
Date: 15.NOV.2020 13:10:38

**Middle Channel / 1RB1**



Date: 15.NOV.2020 13:11:51

**Highest Channel / 1RB1**



Date: 15.NOV.2020 13:22:20



### Frequency Stability

Test Conditions		FR1 n7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0003	

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

EN-DC_7A_n5A / LTE 10MHz + NR 20MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-56.23	-13	-43.23	-63.20	1.58	10.70	H
	2482	-53.75	-13	-40.75	-62.00	2.102	12.50	H
	3312	-61.16	-13	-48.16	-70.05	2.856	13.90	H
	1654	-51.92	-13	-38.92	-58.89	1.58	10.70	V
	2482	-48.80	-13	-35.80	-57.05	2.10	12.50	V
	3312	-61.03	-13	-48.03	-69.92	2.86	13.90	V

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

EN-DC_2A_n7A / LTE 10MHz + NR 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-62.43	-25	-37.43	-72.64	3.03	13.24	H
	7580	-61.64	-25	-36.64	-71.09	3.56	13.01	H
	10100	-56.60	-25	-31.60	-66.12	3.92	13.44	H
	5052	-62.53	-25	-37.53	-72.74	3.03	13.24	V
	7580	-61.35	-25	-36.35	-70.80	3.56	13.01	V
	10100	-58.73	-25	-33.73	-68.25	3.92	13.44	V

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

EN-DC_5A_n7A / LTE 10MHz + NR 20MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-62.57	-25	-37.57	-72.78	3.03	13.24	H
	7580	-61.02	-25	-36.02	-70.47	3.56	13.01	H
	10100	-56.91	-25	-31.91	-66.43	3.92	13.44	H
	5052	-62.58	-25	-37.58	-72.79	3.03	13.24	V
	7580	-61.79	-25	-36.79	-71.24	3.56	13.01	V
	10100	-58.54	-25	-33.54	-68.06	3.92	13.44	V

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



5G NR n7 / LTE 10MHz + NR 20MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-62.15	-25	-37.15	-72.36	3.03	13.24	H
	7580	-61.18	-25	-36.18	-70.63	3.56	13.01	H
	10100	-60.35	-25	-35.35	-69.87	3.92	13.44	H
	5052	-62.47	-25	-37.47	-72.68	3.03	13.24	V
	7580	-61.04	-25	-36.04	-70.49	3.56	13.01	V
	10100	-60.46	-25	-35.46	-69.98	3.92	13.44	V

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