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Appendix B

E-UTRA BAND 26 (814MHz-824MHz)

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1. Effective (Isotropic) Radiated Power

1.1.Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted power (dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	22.91	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	22.93	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23	PASS
Band26	1.4MHz	QPSK	26697	3RB#0	23.05	PASS
Band26	1.4MHz	QPSK	26697	3RB#1	23.05	PASS
Band26	1.4MHz	QPSK	26697	3RB#3	23.27	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.11	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	22.98	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.19	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.09	PASS
Band26	1.4MHz	QPSK	26740	3RB#0	23.17	PASS
Band26	1.4MHz	QPSK	26740	3RB#1	23.22	PASS
Band26	1.4MHz	QPSK	26740	3RB#3	23.25	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.15	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	22.92	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	22.99	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	22.83	PASS
Band26	1.4MHz	QPSK	26783	3RB#0	22.83	PASS
Band26	1.4MHz	QPSK	26783	3RB#1	23.02	PASS
Band26	1.4MHz	QPSK	26783	3RB#3	23.1	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.04	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	21.56	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	21.7	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	21.72	PASS
Band26	1.4MHz	16QAM	26697	3RB#0	22.17	PASS
Band26	1.4MHz	16QAM	26697	3RB#1	22.17	PASS
Band26	1.4MHz	16QAM	26697	3RB#3	22.38	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.2	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	21.69	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	21.95	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	21.79	PASS
Band26	1.4MHz	16QAM	26740	3RB#0	22.19	PASS
Band26	1.4MHz	16QAM	26740	3RB#1	22.61	PASS
Band26	1.4MHz	16QAM	26740	3RB#3	22.3	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.16	PASS

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					I	
Band26	1.4MHz	16QAM	26783	1RB#0	21.65	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	21.75	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	21.58	PASS
Band26	1.4MHz	16QAM	26783	3RB#0	21.99	PASS
Band26	1.4MHz	16QAM	26783	3RB#1	22.33	PASS
Band26	1.4MHz	16QAM	26783	3RB#3	22.18	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.02	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.04	PASS
Band26	3MHz	QPSK	26705	1RB#8	22.92	PASS
Band26	3MHz	QPSK	26705	1RB#14	22.78	PASS
Band26	3MHz	QPSK	26705	8RB#0	22.16	PASS
Band26	3MHz	QPSK	26705	8RB#4	22.07	PASS
Band26	3MHz	QPSK	26705	8RB#7	21.98	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.14	PASS
Band26	3MHz	QPSK	26740	1RB#0	22.89	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.1	PASS
Band26	3MHz	QPSK	26740	1RB#14	22.79	PASS
Band26	3MHz	QPSK	26740	8RB#0	22.09	PASS
Band26	3MHz	QPSK	26740	8RB#4	22.18	PASS
Band26	3MHz	QPSK	26740	8RB#7	22.05	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.13	PASS
Band26	3MHz	QPSK	26775	1RB#0	22.99	PASS
Band26	3MHz	QPSK	26775	1RB#8	22.77	PASS
Band26	3MHz	QPSK	26775	1RB#14	22.8	PASS
Band26	3MHz	QPSK	26775	8RB#0	21.73	PASS
Band26	3MHz	QPSK	26775	8RB#4	21.86	PASS
Band26	3MHz	QPSK	26775	8RB#7	21.88	PASS
Band26	3MHz	QPSK	26775	15RB#0	21.98	PASS
Band26	3MHz	16QAM	26705	1RB#0	21.69	PASS
Band26	3MHz	16QAM	26705	1RB#8	21.66	PASS
Band26	3MHz	16QAM	26705	1RB#14	21.7	PASS
Band26	3MHz	16QAM	26705	8RB#0	21.04	PASS
Band26	3MHz	16QAM	26705	8RB#4	21.02	PASS
Band26	3MHz	16QAM	26705	8RB#7	21.38	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.14	PASS
Band26	3MHz	16QAM	26740	1RB#0	21.85	PASS
Band26	3MHz	16QAM	26740	1RB#8	21.73	PASS
Band26	3MHz	16QAM	26740	1RB#14	21.62	PASS
Band26	3MHz	16QAM	26740	8RB#0	21.41	PASS
Band26	3MHz	16QAM	26740	8RB#4	21.33	PASS
Band26	3MHz	16QAM	26740	8RB#7	21.22	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.22	PASS

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Band26	3MHz	16QAM	26775	1RB#0	21.69	PASS
Band26	3MHz	16QAM	26775	1RB#8	21.58	PASS
Band26	3MHz	16QAM	26775	1RB#14	21.26	PASS
Band26	3MHz	16QAM	26775	8RB#0	20.8	PASS
Band26	3MHz	16QAM	26775	8RB#4	20.86	PASS
Band26	3MHz	16QAM	26775	8RB#7	20.97	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.06	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.00	PASS
Band26	5MHz	QPSK	26715	1RB#12	22.76	PASS
Band26	5MHz	QPSK	26715	1RB#24	22.75	PASS
Band26	5MHz	QPSK	26715	12RB#0	22.11	PASS
Band26	5MHz	QPSK	26715	12RB#6	21.96	PASS
Band26	5MHz	QPSK	26715	12RB#13	22.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.04	PASS
Band26	5MHz	QPSK	26740	1RB#0	22.90	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.24	PASS
Band26	5MHz	QPSK	26740	1RB#24	22.86	PASS
Band26	5MHz	QPSK	26740	12RB#0	22.12	PASS
Band26	5MHz	QPSK	26740	12RB#6	22.19	PASS
Band26	5MHz	QPSK	26740	12RB#13	22.01	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.04	PASS
Band26	5MHz	QPSK	26765	1RB#0	22.73	PASS
Band26	5MHz	QPSK	26765	1RB#12	22.97	PASS
Band26	5MHz	QPSK	26765	1RB#24	22.83	PASS
Band26	5MHz	QPSK	26765	12RB#0	22.09	PASS
Band26	5MHz	QPSK	26765	12RB#6	21.97	PASS
Band26	5MHz	QPSK	26765	12RB#13	21.79	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.04	PASS
Band26	5MHz	16QAM	26715	1RB#0	21.57	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.39	PASS
Band26	5MHz	16QAM	26715	1RB#24	21.60	PASS
Band26	5MHz	16QAM	26715	12RB#0	20.88	PASS
Band26	5MHz	16QAM	26715	12RB#6	21.11	PASS
Band26	5MHz	16QAM	26715	12RB#13	20.89	PASS
Band26	5MHz	16QAM	26715	25RB#0	20.79	PASS
Band26	5MHz	16QAM	26740	1RB#0	21.64	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.26	PASS
Band26	5MHz	16QAM	26740	1RB#24	21.28	PASS
Band26	5MHz	16QAM	26740	12RB#0	21.12	PASS
Band26	5MHz	16QAM	26740	12RB#6	21.03	PASS
Band26	5MHz	16QAM	26740	12RB#13	20.94	PASS
Band26	5MHz	16QAM	26740	25RB#0	20.70	PASS

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5MHz	16QAM	26765	1RB#0	21.58	PASS
5MHz	16QAM	26765	1RB#12	22.13	PASS
5MHz	16QAM	26765	1RB#24	21.65	PASS
5MHz	16QAM	26765	12RB#0	20.91	PASS
5MHz	16QAM	26765	12RB#6	21.03	PASS
5MHz	16QAM	26765	12RB#13	21.00	PASS
5MHz	16QAM	26765	25RB#0	20.74	PASS
10MHz	QPSK	26740	1RB#0	22.89	PASS
10MHz	QPSK	26740	1RB#24	23.27	PASS
10MHz	QPSK	26740	1RB#49	22.30	PASS
10MHz	QPSK	26740	25RB#0	22.18	PASS
10MHz	QPSK	26740	25RB#12	22.28	PASS
10MHz	QPSK	26740	25RB#25	21.81	PASS
10MHz	QPSK	26740	50RB#0	21.99	PASS
10MHz	16QAM	26740	1RB#0	21.92	PASS
10MHz	16QAM	26740	1RB#24	22.06	PASS
10MHz	16QAM	26740	1RB#49	21.43	PASS
10MHz	16QAM	26740	27RB#0	20.76	PASS
	5MHz 5MHz 5MHz 5MHz 5MHz 5MHz 10MHz 10MHz 10MHz 10MHz 10MHz 10MHz 10MHz 10MHz 10MHz	5MHz 16QAM 10MHz QPSK 10MHz 16QAM 10MHz 16QAM 10MHz 16QAM	5MHz 16QAM 26765 10MHz QPSK 26740 10MHz 16QAM 26740 10MHz 16QAM 26740 10MHz 16QAM 26740	5MHz 16QAM 26765 1RB#12 5MHz 16QAM 26765 1RB#24 5MHz 16QAM 26765 12RB#0 5MHz 16QAM 26765 12RB#0 5MHz 16QAM 26765 12RB#6 5MHz 16QAM 26765 12RB#6 5MHz 16QAM 26765 12RB#13 5MHz 16QAM 26765 25RB#0 10MHz QPSK 26740 1RB#24 10MHz QPSK 26740 1RB#49 10MHz QPSK 26740 25RB#0 10MHz QPSK 26740 25RB#0 10MHz QPSK 26740 25RB#12 10MHz QPSK 26740 25RB#12 10MHz QPSK 26740 50RB#0 10MHz QPSK 26740 1RB#49 10MHz 16QAM 26740 1RB#0 10MHz 16QAM 26740 1RB#49	5MHz16QAM267651RB#1222.135MHz16QAM267651RB#2421.655MHz16QAM2676512RB#020.915MHz16QAM2676512RB#621.035MHz16QAM2676512RB#1321.005MHz16QAM2676525RB#020.7410MHzQPSK267401RB#2423.2710MHzQPSK267401RB#2423.2710MHzQPSK267401RB#4922.3010MHzQPSK2674025RB#022.1810MHzQPSK2674025RB#1222.2810MHzQPSK2674025RB#1222.2810MHzQPSK2674025RB#1222.2810MHzQPSK2674025RB#2521.8110MHzQPSK267401RB#2421.9910MHz16QAM267401RB#021.9210MHz16QAM267401RB#4921.43

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it, ERP [dBm] = Conducted power[dBm] + Gain [dBd]

EIRP [dBm] = Conducted power[dBm] + Gain [dBi]

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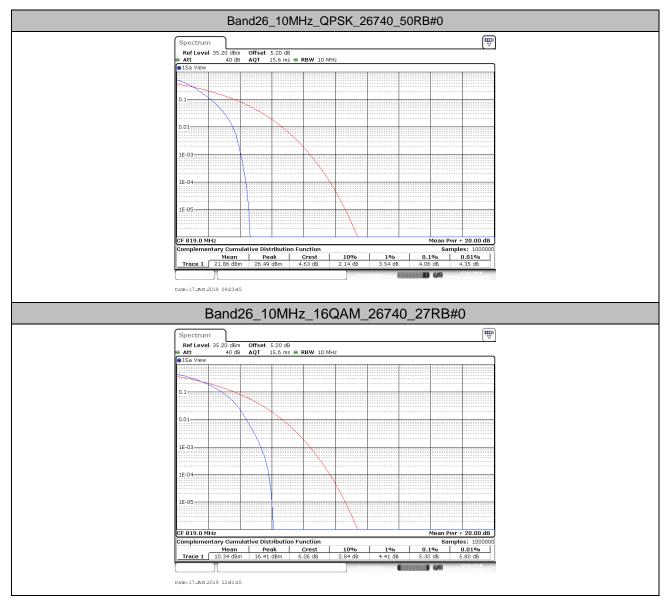
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2. Peak-to-Average Ratio(CCDF)

2.1.Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	4.06	13	PASS
Band26	10MHz	16QAM	26740	27RB#0	5.30	13	PASS

2.2. Test Plots



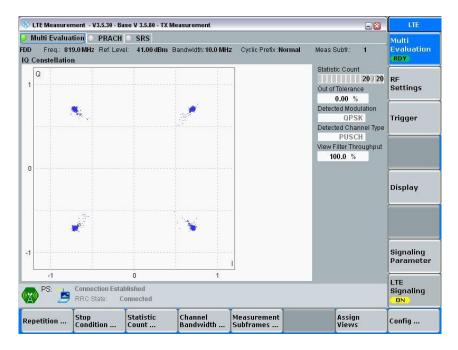
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3. Modulation Characteristics

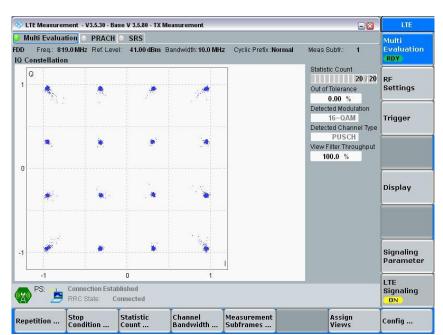
- 3.1.Test BAND = LTE BAND26
- 3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1.Test Result

SG

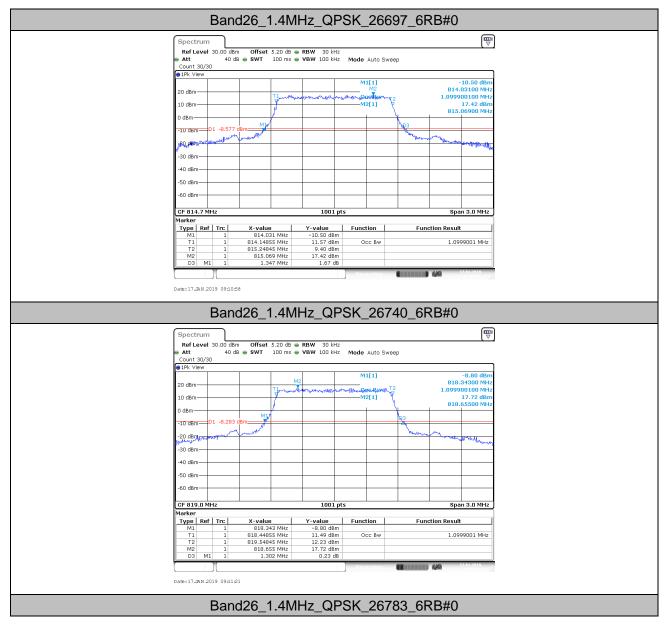
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.100	1.347	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.100	1.302	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.091	1.308	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.103	1.320	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.100	1.335	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.100	1.308	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.697	3.000	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.703	2.982	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.697	2.976	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.691	2.994	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.697	2.988	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.691	2.982	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.476	4.950	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.476	4.960	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.486	4.950	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.476	4.960	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.486	4.960	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.476	4.900	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.931	9.700	PASS
Band26	10MHz	16QAM	26740	27RB#0	4.895	5.654	PASS

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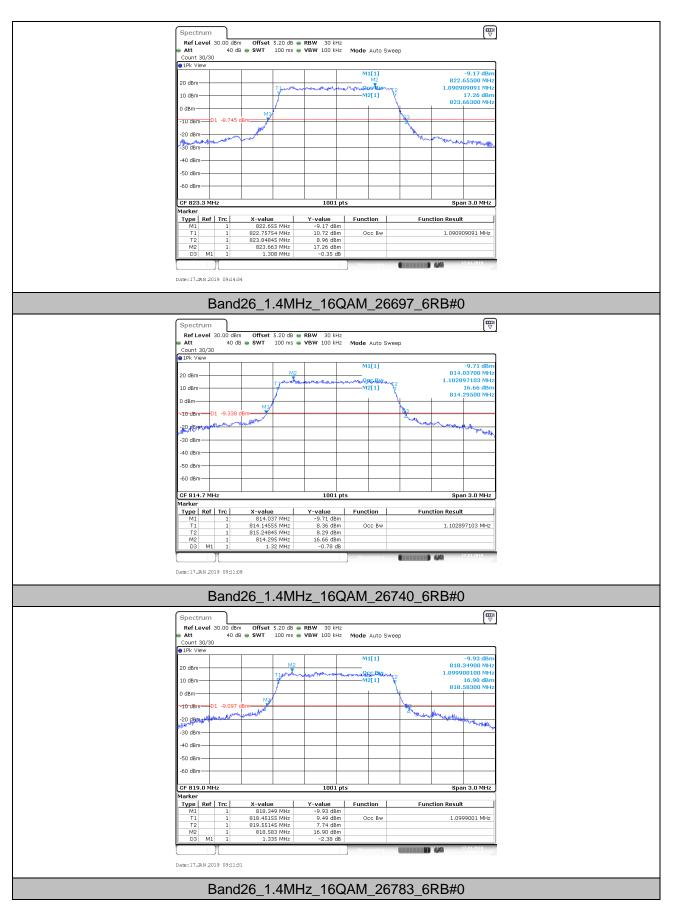
4.2. Test Plots



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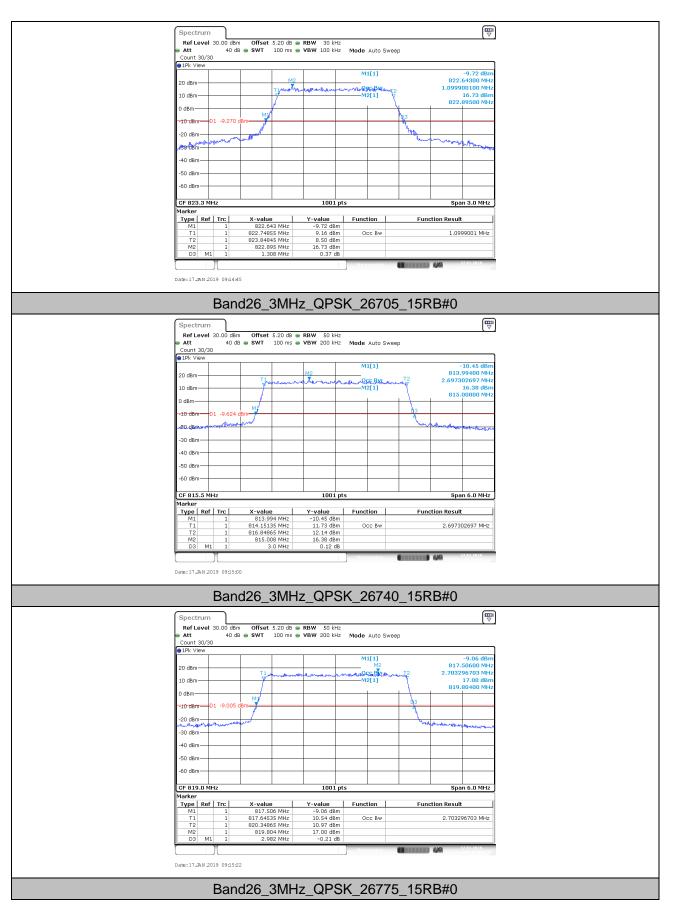


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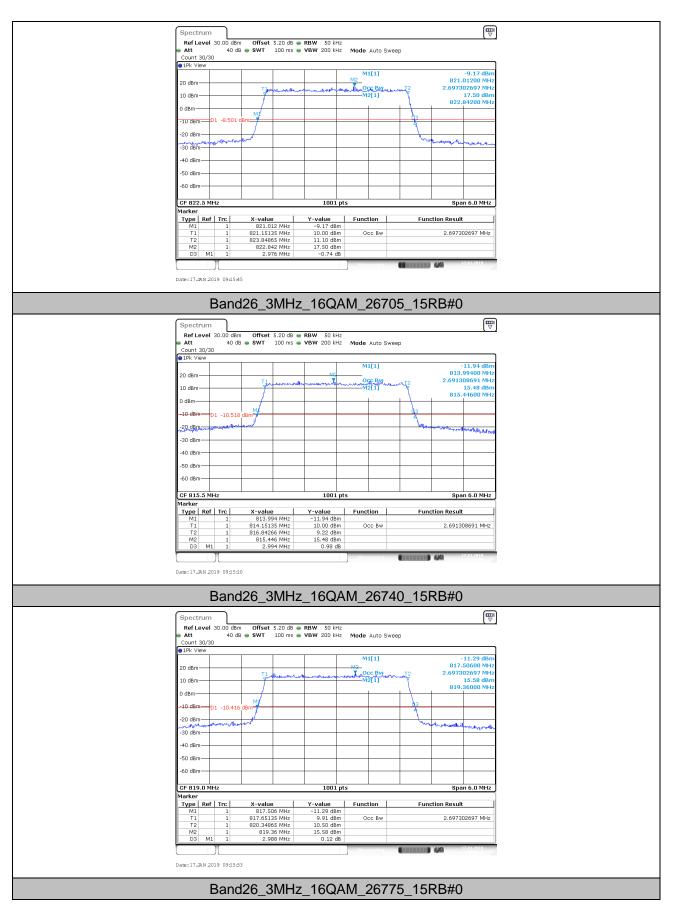


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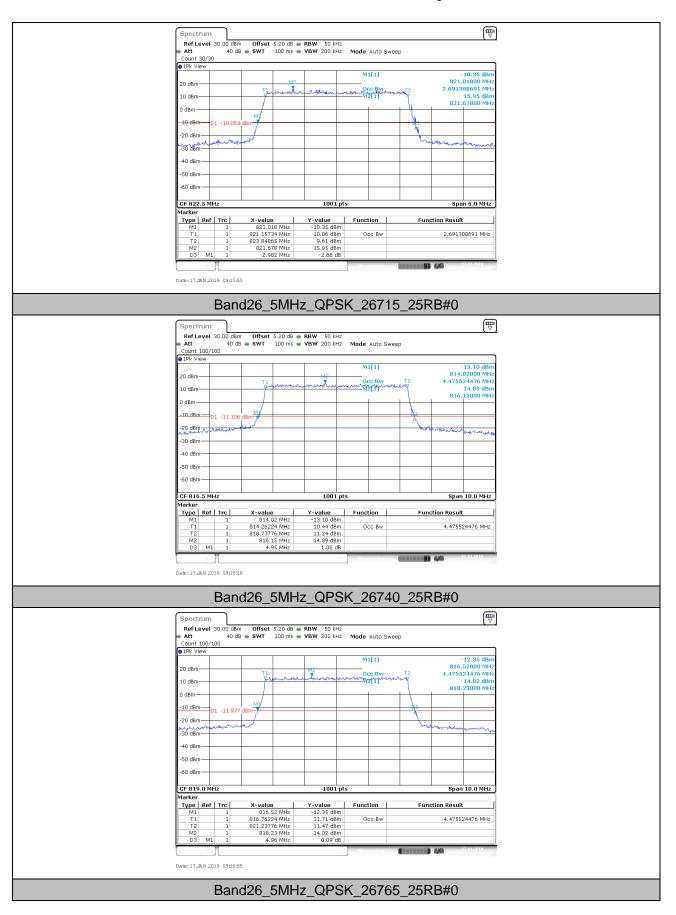


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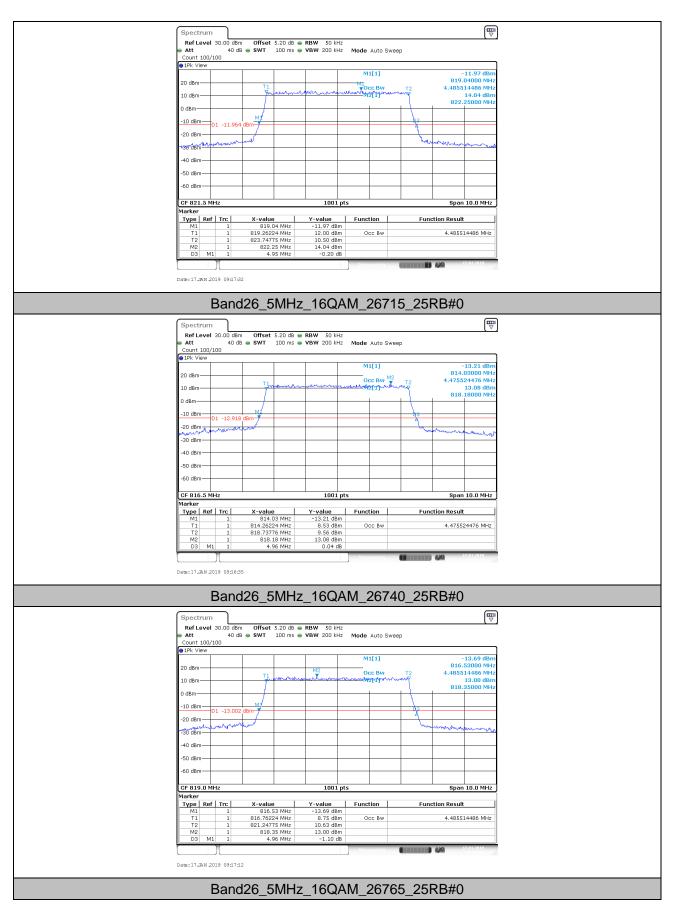


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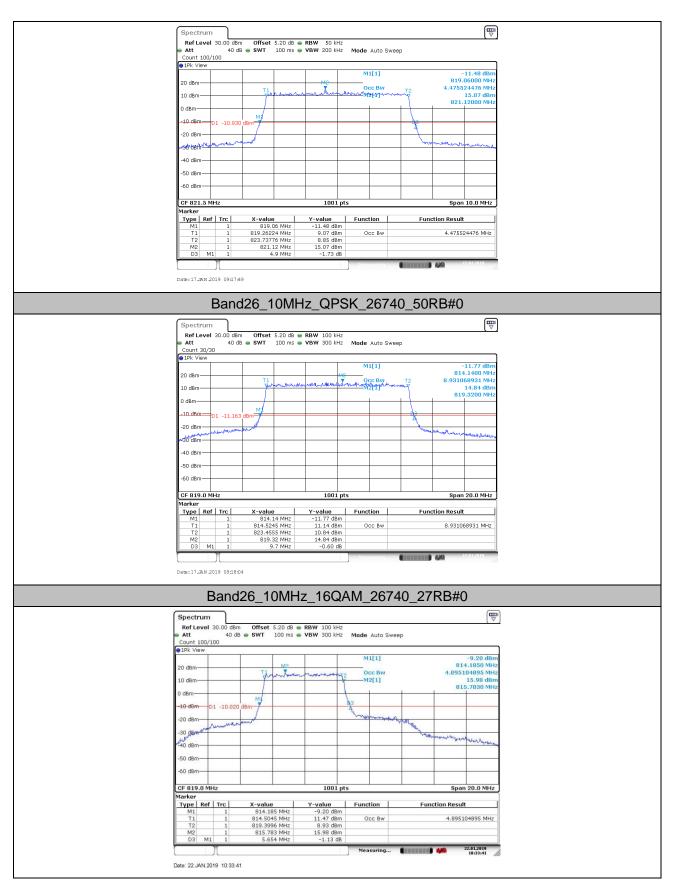


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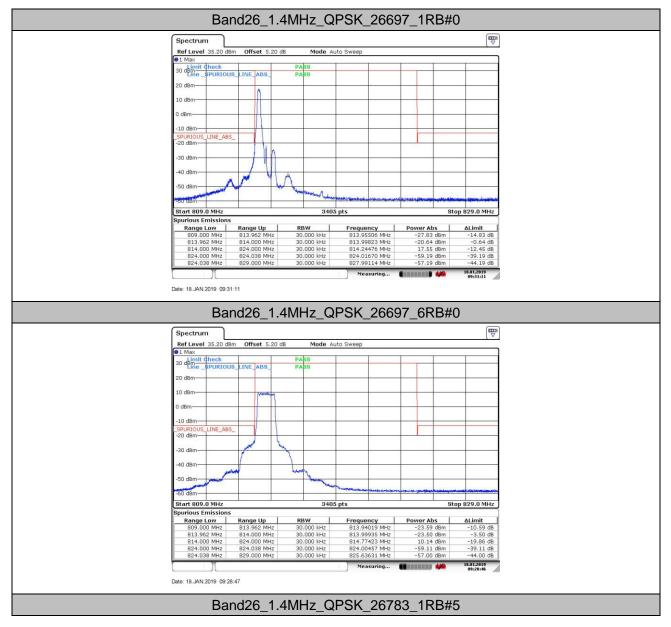
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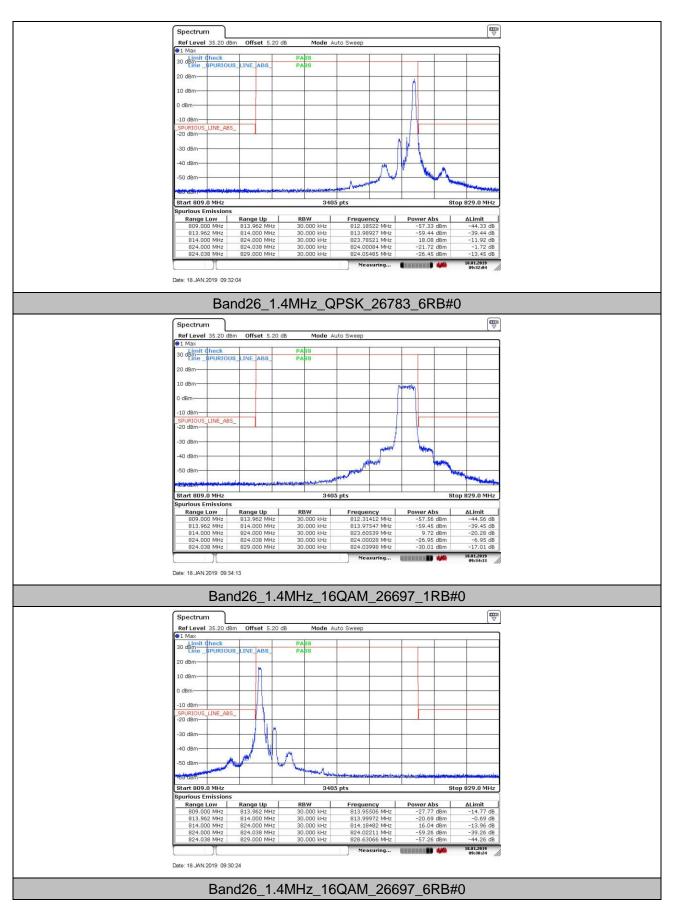
5. Band Edge Compliance

5.1.Test Plots



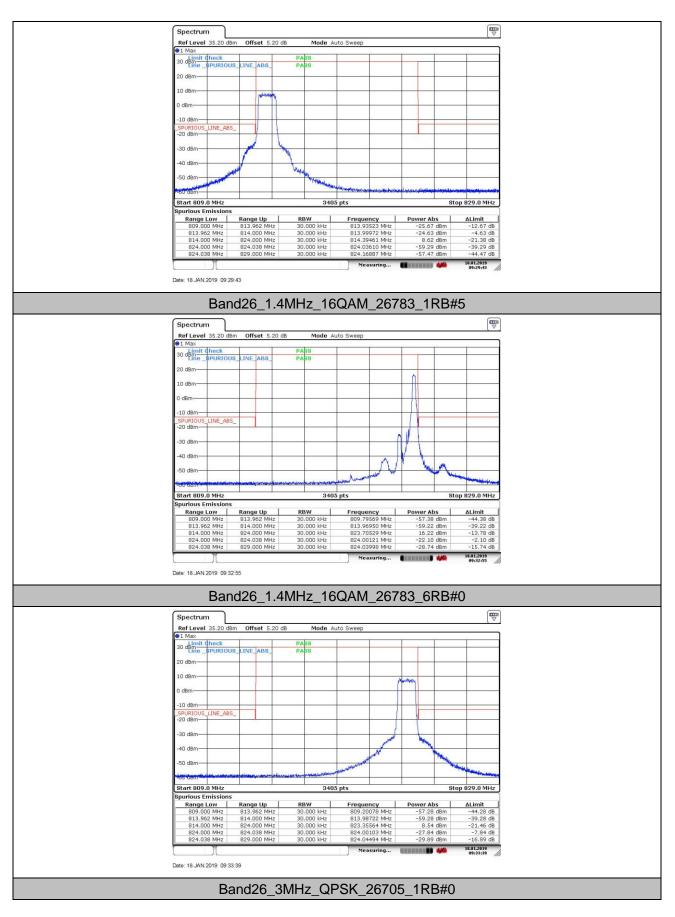


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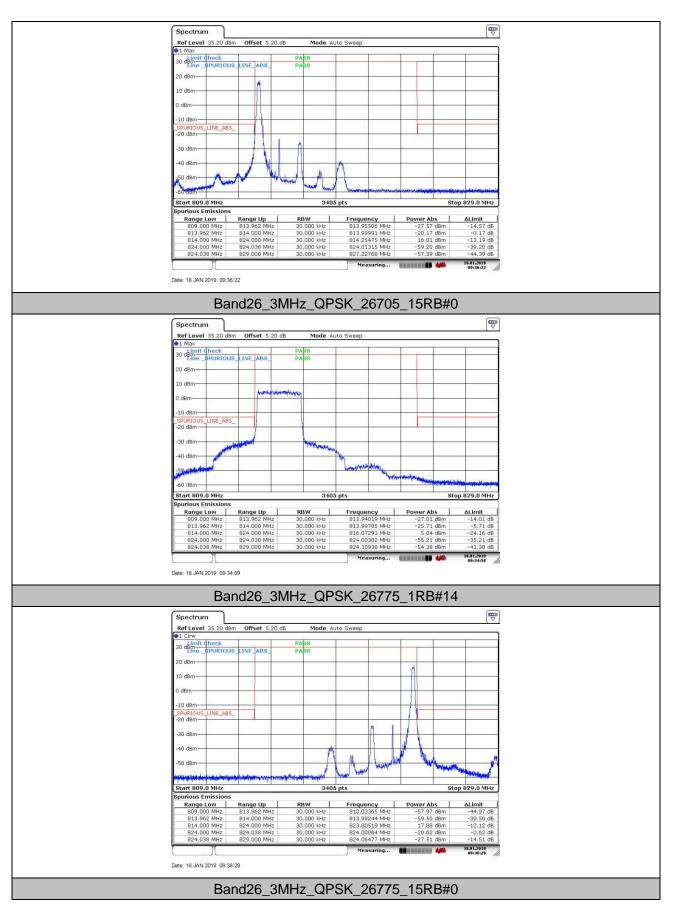


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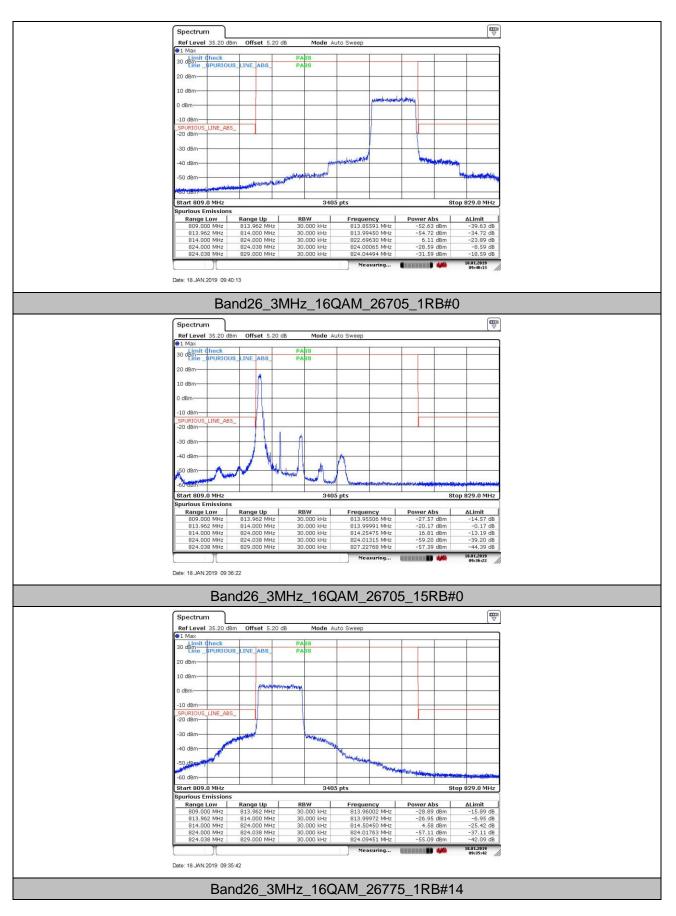


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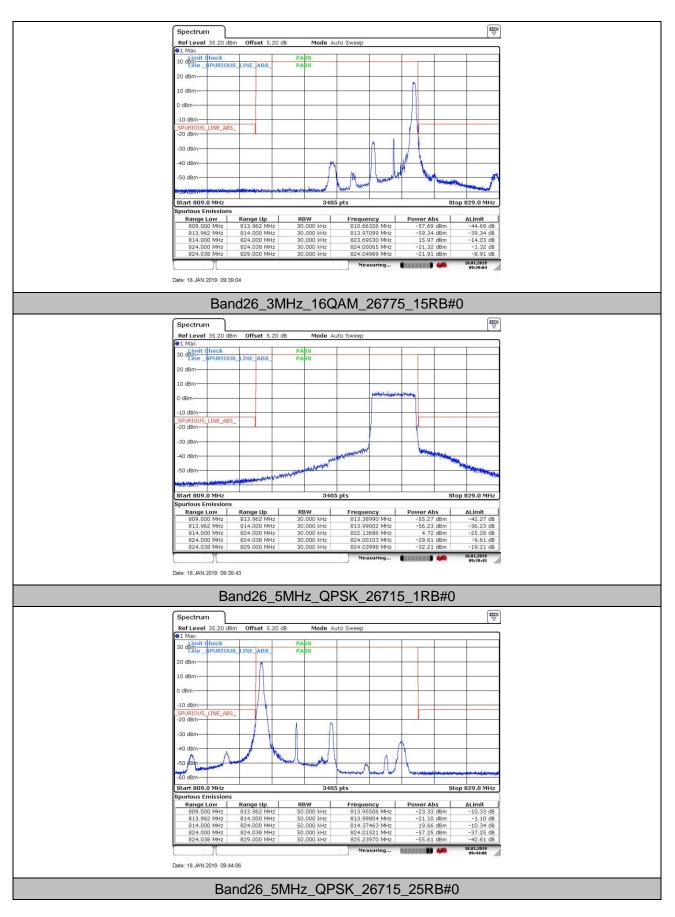


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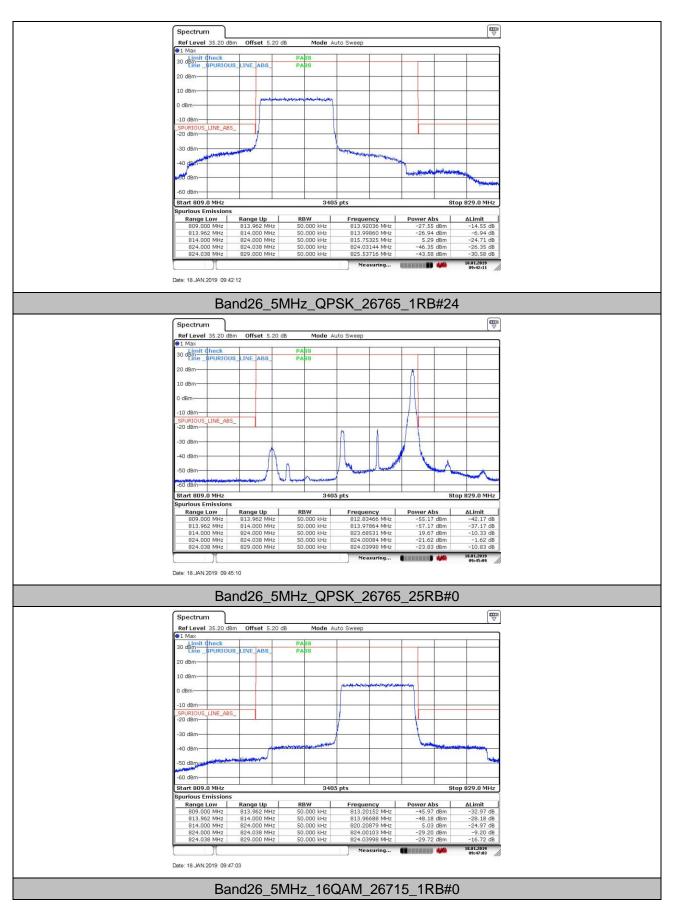


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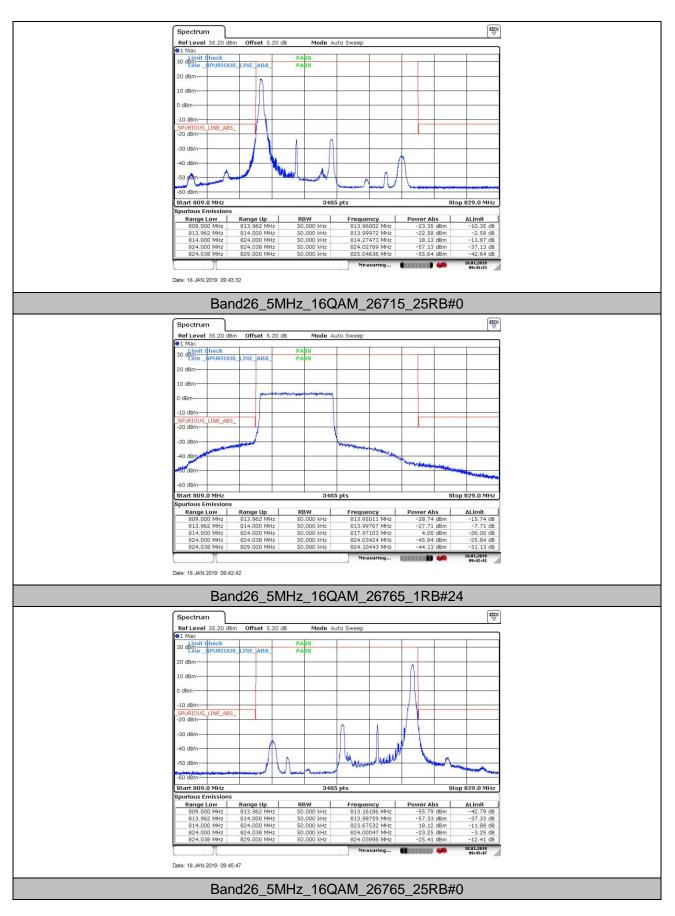


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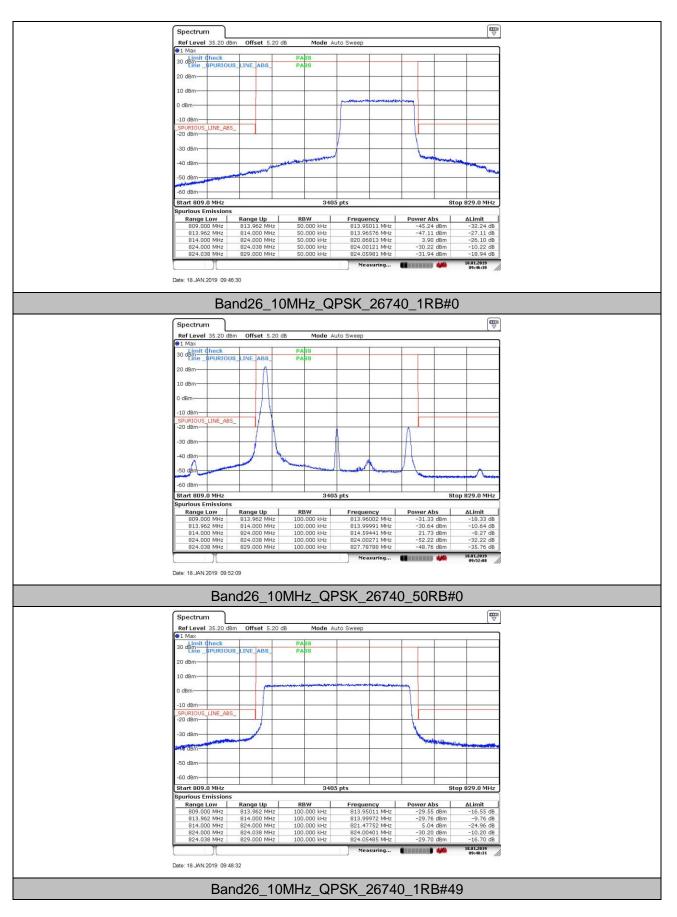


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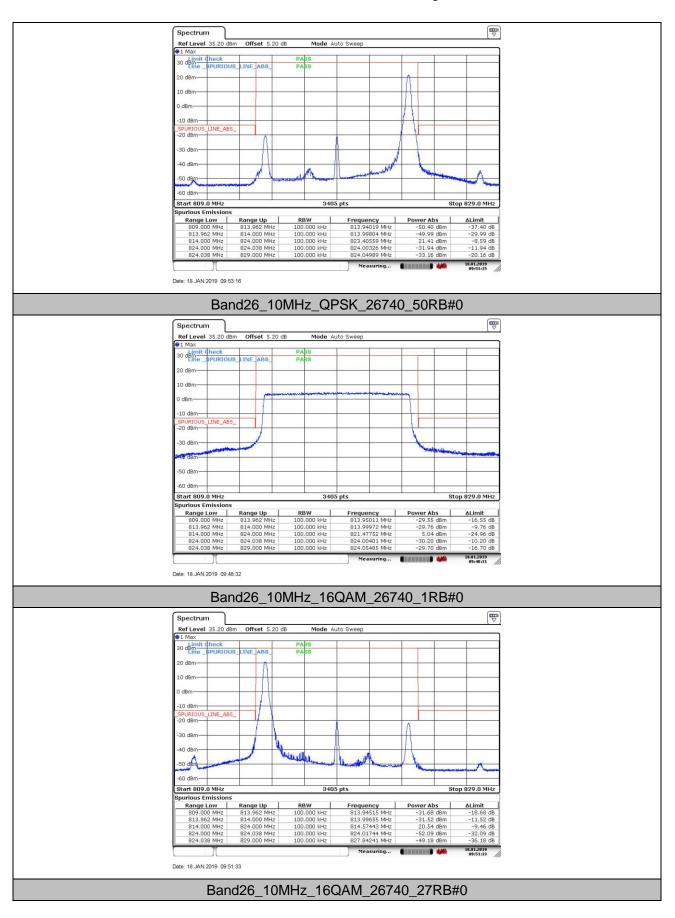


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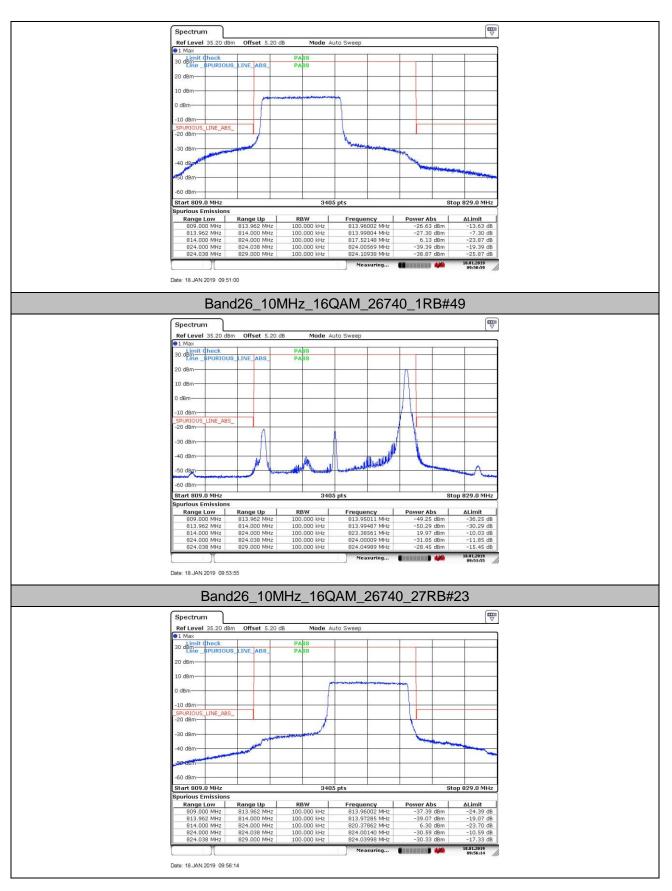




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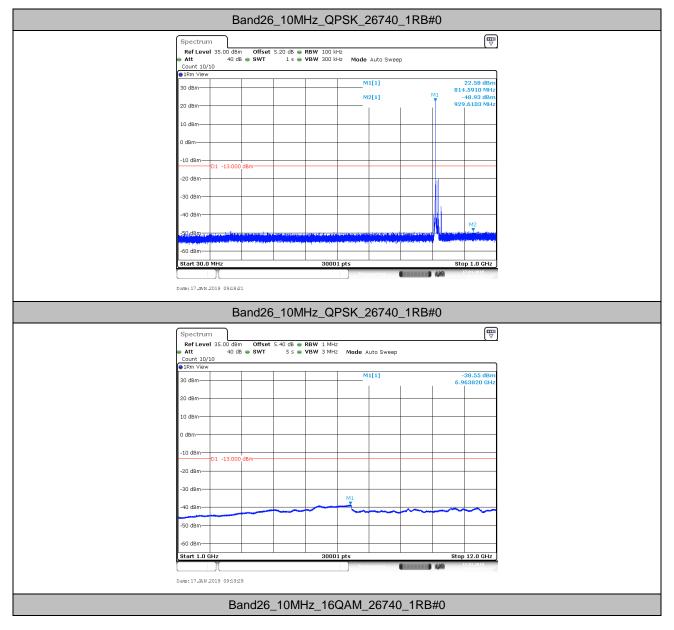
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6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

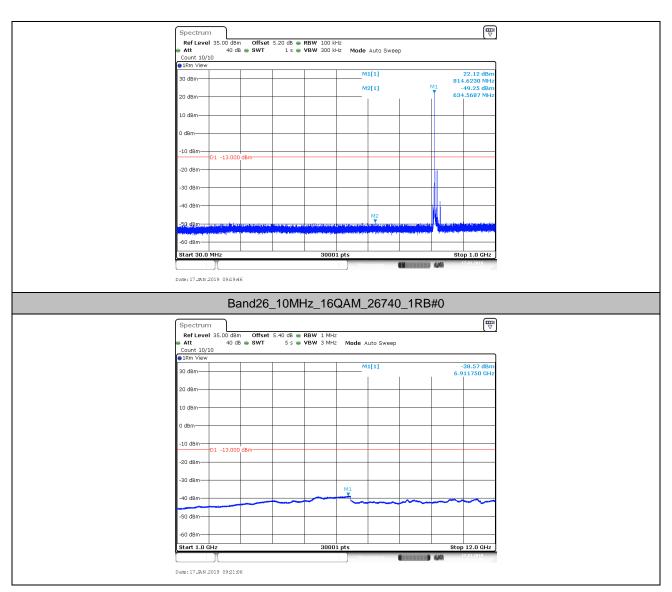
Remark2: only the worst case data displayed in this report.

6.1. Test Plots





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7. Field Strength of Spurious Radiation

7.1.Test BAND = LTE BAND 26

S

7.1.1. Test Mode =LTE/TM1 10MHz RB1#0

7.1.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.880000	-80.83	-13.00	67.83	Vertical
300.293333	-75.09	-13.00	62.09	Vertical
1656.500000	-64.63	-13.00	51.63	Vertical
2681.500000	-57.05	-13.00	44.05	Vertical
4651.162500	-66.81	-13.00	53.81	Vertical
7972.012500	-63.39	-13.00	50.39	Vertical
62.573333	-77.01	-13.00	64.01	Horizontal
191.980000	-78.21	-13.00	65.21	Horizontal
1763.500000	-63.70	-13.00	50.70	Horizontal
2800.000000	-56.81	-13.00	43.81	Horizontal
4420.087500	-66.76	-13.00	53.76	Horizontal
7856.475000	-63.70	-13.00	50.70	Horizontal
Spot Check data		1		1
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.020000	-80.93	-13.00	67.93	Vertical
90.480000	-79.86	-13.00	66.86	Vertical
300.293333	-80.38	-13.00	67.38	Vertical
1627.000000	-65.54	-13.00	52.54	Vertical
4262.137500	-67.39	-13.00	54.39	Vertical
6706.950000	-65.55	-13.00	52.55	Vertical
63.040000	-77.40	-13.00	64.40	Horizontal
104.293333	-81.81	-13.00	68.81	Horizontal
300.293333	-82.20	-13.00	69.20	Horizontal
1625.500000	-65.58	-13.00	52.58	Horizontal
4299.187500	-66.78	-13.00	53.78	Horizontal
		1	1	1

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Remark:

- 1) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

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8. Frequency Stability

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8.1. Frequency Vs Voltage

	Voltage														
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict					
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-6.55	-0.007995	±2.5	PASS					
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	6.98	0.008524	±2.5	PASS					
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	4.51	0.005502	±2.5	PASS					
Band26	10MHz	16QAM	26740	27RB#0	VL	NT	-0.46	-0.000559	±2.5	PASS					
Band26	10MHz	16QAM	26740	27RB#0	VN	NT	-0.70	-0.000859	±2.5	PASS					
Band26	10MHz	16QAM	26740	27RB#0	VH	NT	0.85	0.001036	±2.5	PASS					

8.2. Frequency Vs Temperature

	Temperature												
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict			
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	9.31	0.011372	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	4.02	0.004910	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	NV	0	6.30	0.007694	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	NV	10	3.52	0.004295	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	NV	20	5.19	0.006340	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-11.31	-0.013812	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-12.08	-0.014751	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	NV	50	2.35	0.002875	±2.5	PASS			
Band26	10MHz	16QAM	26740	27RB#0	NV	-30	5.13	0.006263	±2.5	PASS			
Band26	10MHz	16QAM	26740	27RB#0	NV	-20	-8.56	-0.010449	±2.5	PASS			
Band26	10MHz	16QAM	26740	27RB#0	NV	0	-3.18	-0.003885	±2.5	PASS			
Band26	10MHz	16QAM	26740	27RB#0	NV	10	-0.64	-0.000779	±2.5	PASS			
Band26	10MHz	16QAM	26740	27RB#0	NV	20	-2.47	-0.003020	±2.5	PASS			
Band26	10MHz	16QAM	26740	27RB#0	NV	30	13.78	0.016822	±2.5	PASS			
Band26	10MHz	16QAM	26740	27RB#0	NV	40	-12.95	-0.015808	±2.5	PASS			
Band26	10MHz	16QAM	26740	27RB#0	NV	50	-9.36	-0.011423	±2.5	PASS			

The End

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