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Appendix B

E-UTRA Band 17



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidt	Modulation	Channel	RB	Result	ERP	Limit	Verdict
	h			Config.	(dBm)	(dBm)	(dBm)	
Band17	5MHz	QPSK	23755	1RB#0	23.51	13.36	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.11	13.96	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.95	12.8	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.79	12.64	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.90	12.75	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.53	12.38	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.76	12.61	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.70	13.55	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.63	13.48	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.12	12.97	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.90	12.75	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.60	12.45	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.34	12.19	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.74	12.59	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.39	13.24	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.04	13.89	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.74	13.59	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.43	12.28	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.79	12.64	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.73	12.58	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.57	12.42	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.20	12.05	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.95	12.8	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.28	12.13	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.61	11.46	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.61	11.46	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.44	11.29	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.74	11.59	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.37	12.22	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.70	12.55	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.28	12.13	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.60	11.45	34.77	PASS



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D 147	51411	400 414	00700	4000 40	04.00	44.45	04.77	DAGG
Band17	5MHz	16QAM	23790	12RB#6	21.60	11.45	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.61	11.46	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.69	11.54	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.20	12.05	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.61	12.46	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.21	12.06	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.51	11.36	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.65	11.5	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.60	11.45	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.50	11.35	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.69	13.54	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.88	13.73	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.29	13.14	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.04	12.89	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.84	12.69	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.28	12.13	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.86	12.71	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.71	13.56	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.85	13.7	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.44	13.29	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.90	12.75	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.64	12.49	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.42	12.27	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.86	12.71	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.75	13.6	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.58	13.43	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.77	13.62	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.74	12.59	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.55	12.4	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.70	12.55	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.81	12.66	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.41	12.26	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.17	13.02	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.44	12.29	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.99	11.84	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.05	11.9	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.59	11.44	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.60	11.45	34.77	PASS



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Band17	10MHz	16QAM	23790	1RB#0	22.45	12.3	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.48	12.33	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.33	12.18	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.66	11.51	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.81	11.66	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.57	11.42	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.72	11.57	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.46	12.31	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.45	12.3	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.29	12.14	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.60	11.45	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.69	11.54	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.61	11.46	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.60	11.45	34.77	PASS

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]



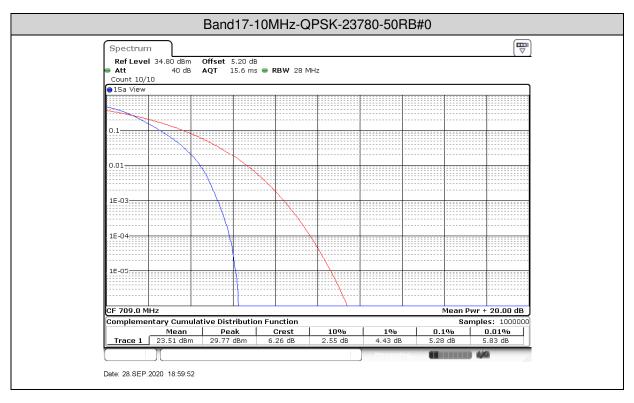
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

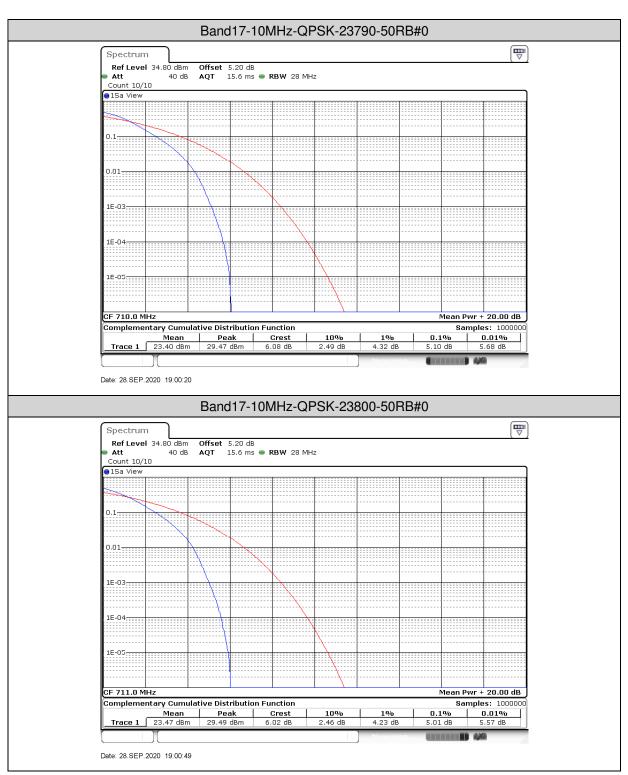
Band	Bandwidt h	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.28	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.10	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.01	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.14	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.94	13	PASS

2.2. Test Plots





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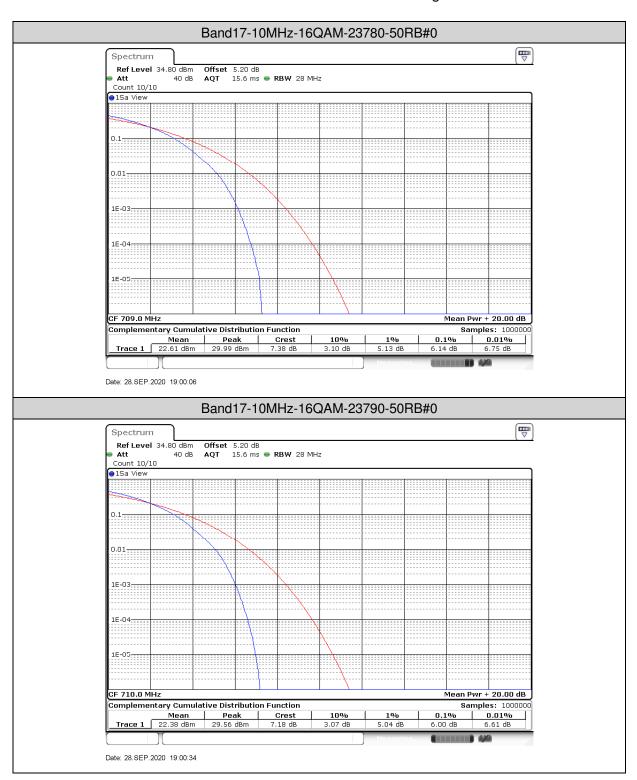
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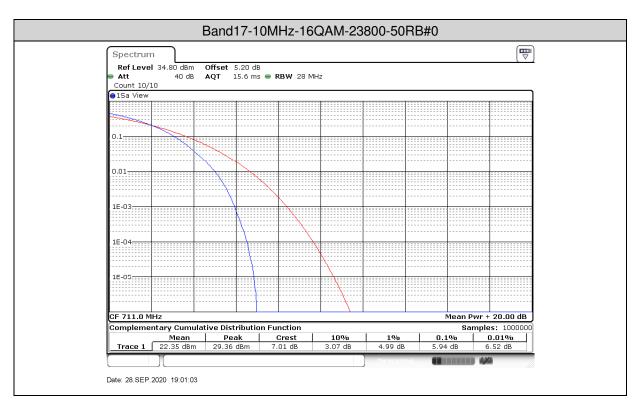
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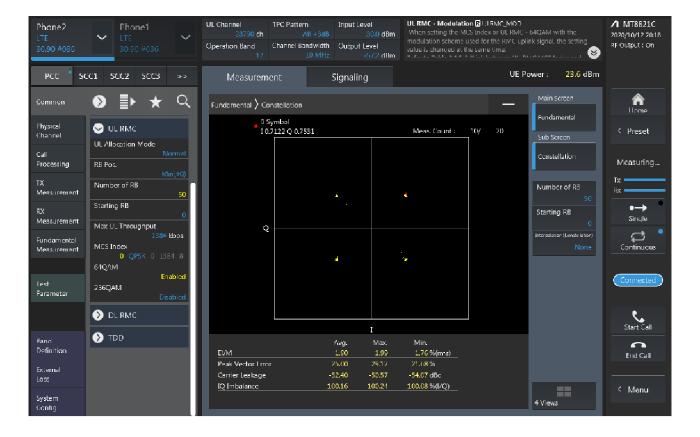


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH

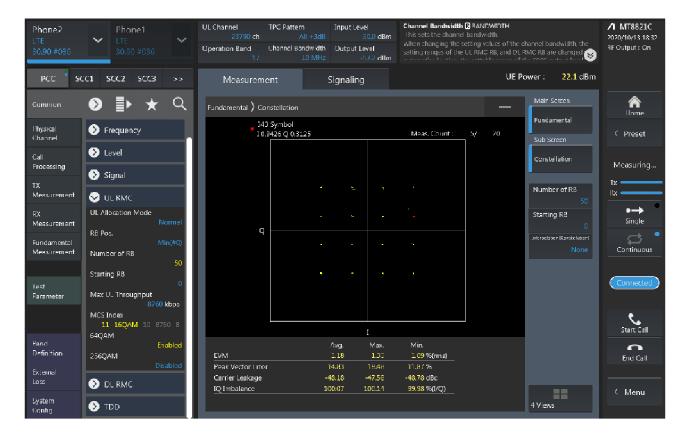




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3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH





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4. 26dB Bandwidth and Occupied Bandwidth

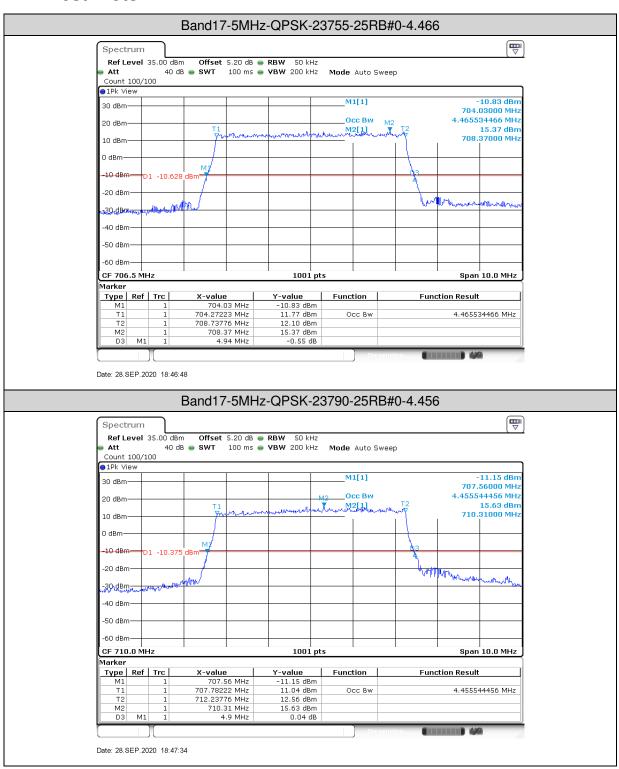
4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.466	4.940	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.456	4.900	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.466	4.880	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.476	4.950	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.476	4.960	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.476	4.900	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.911	9.660	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.871	9.600	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.891	9.540	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.911	9.680	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.871	9.640	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.871	9.580	PASS



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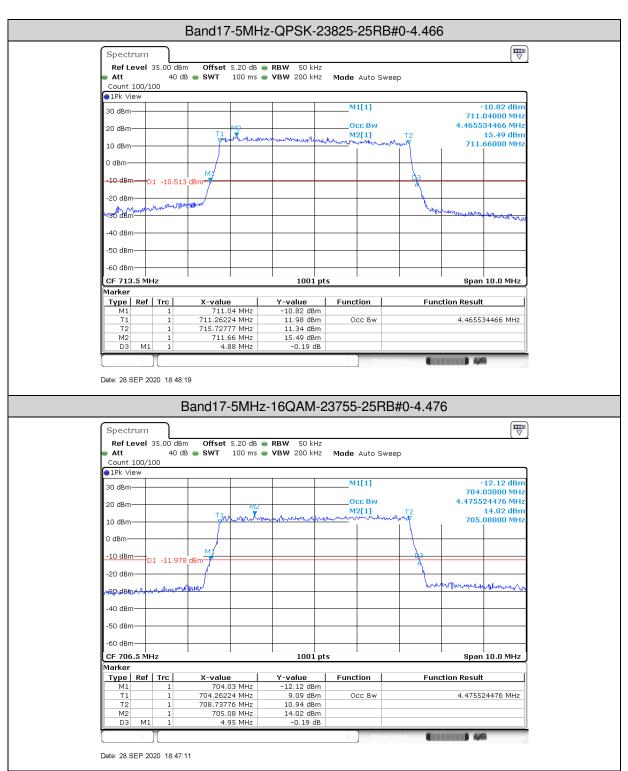
4.2. Test Plots





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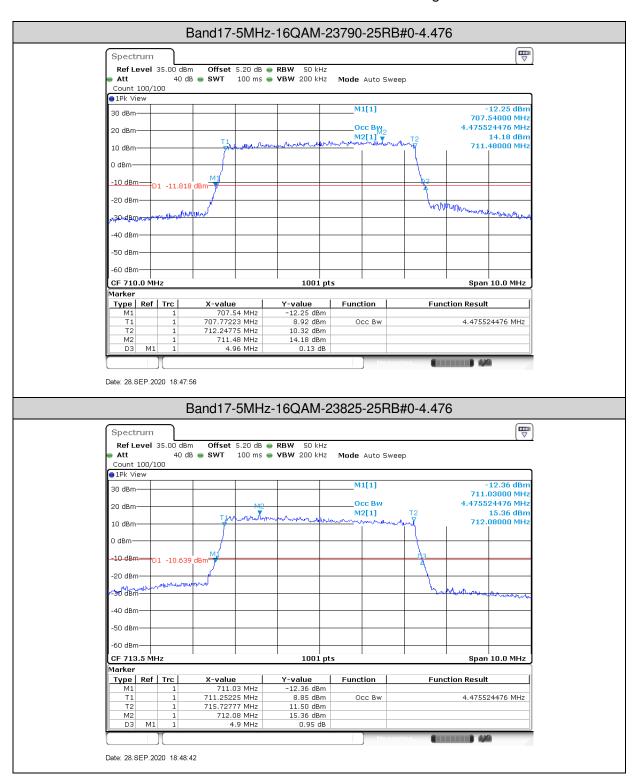
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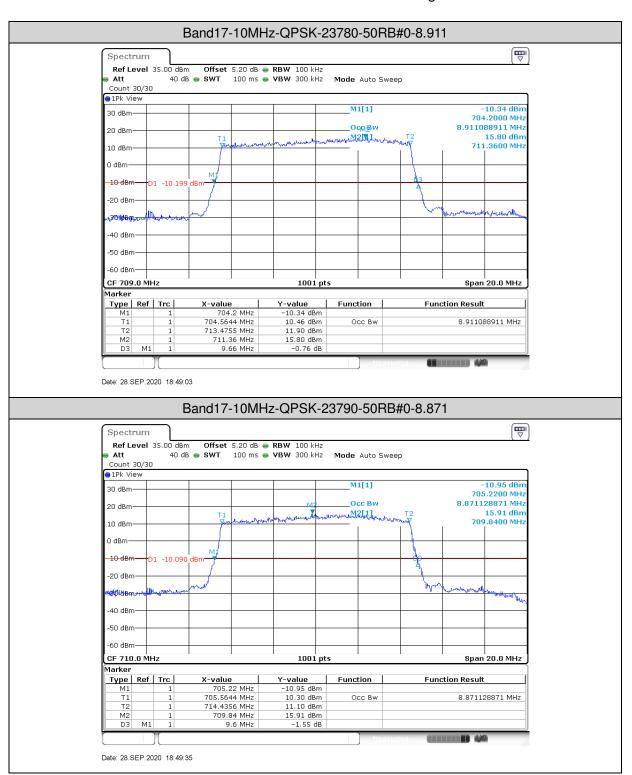
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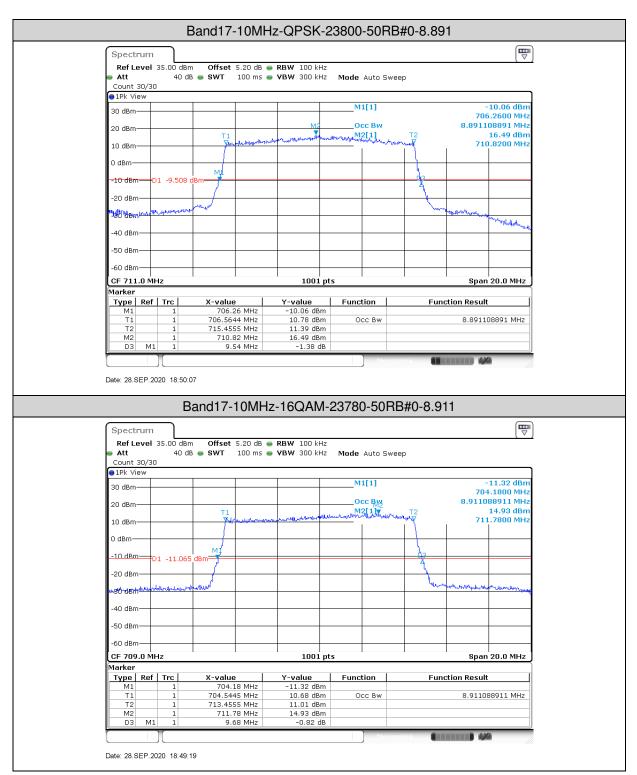
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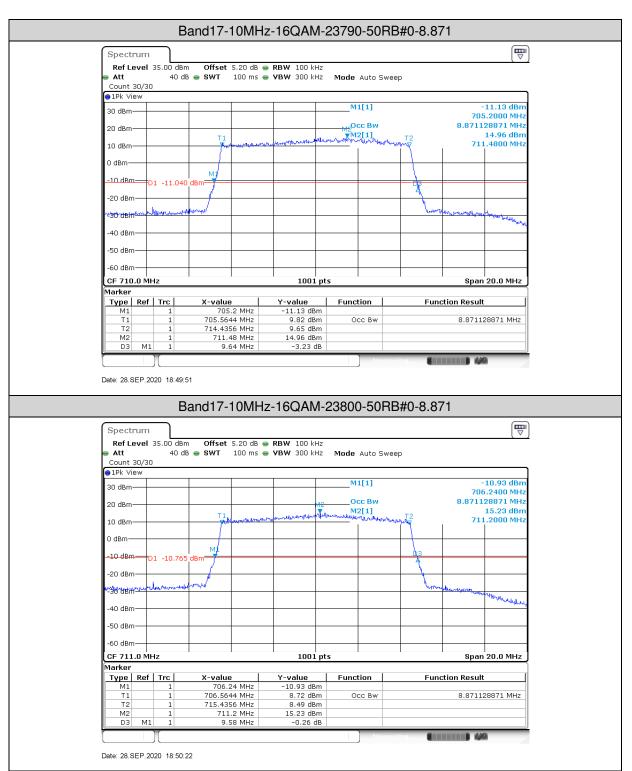
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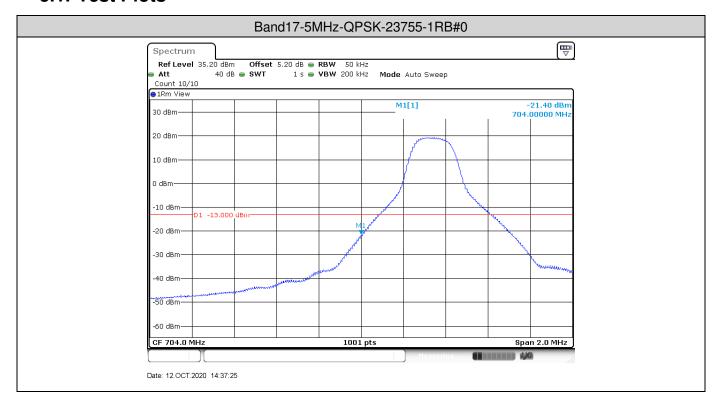
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5. Band Edge Compliance

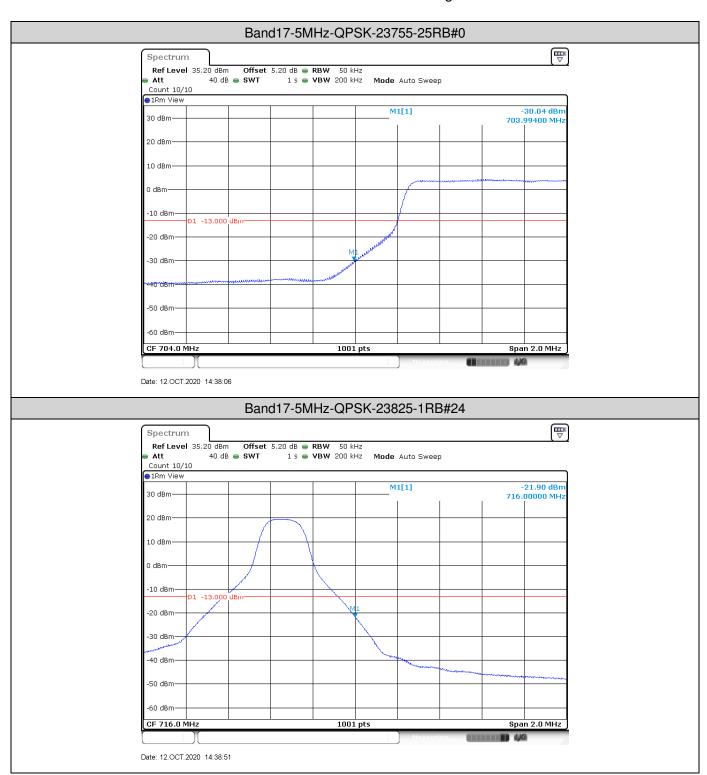
5.1. Test Plots





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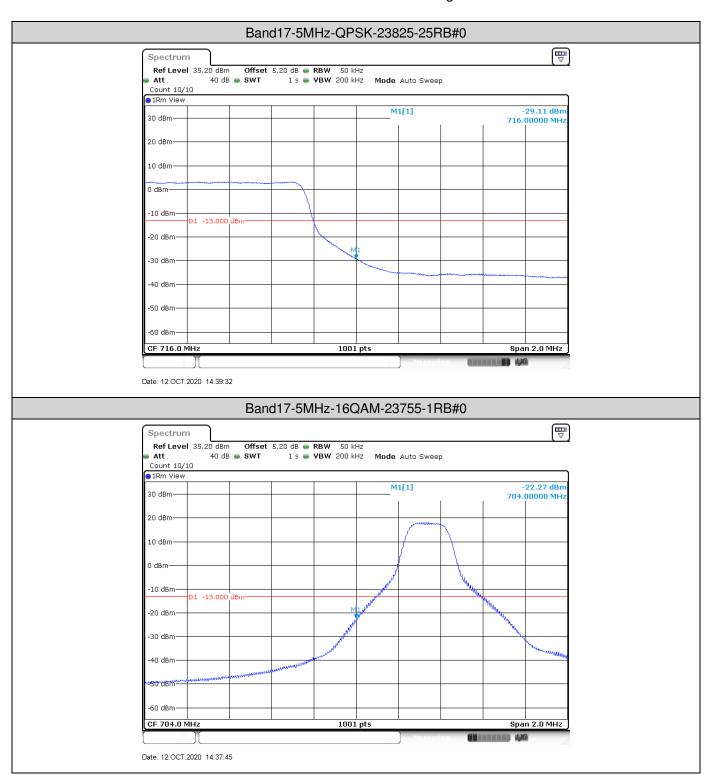
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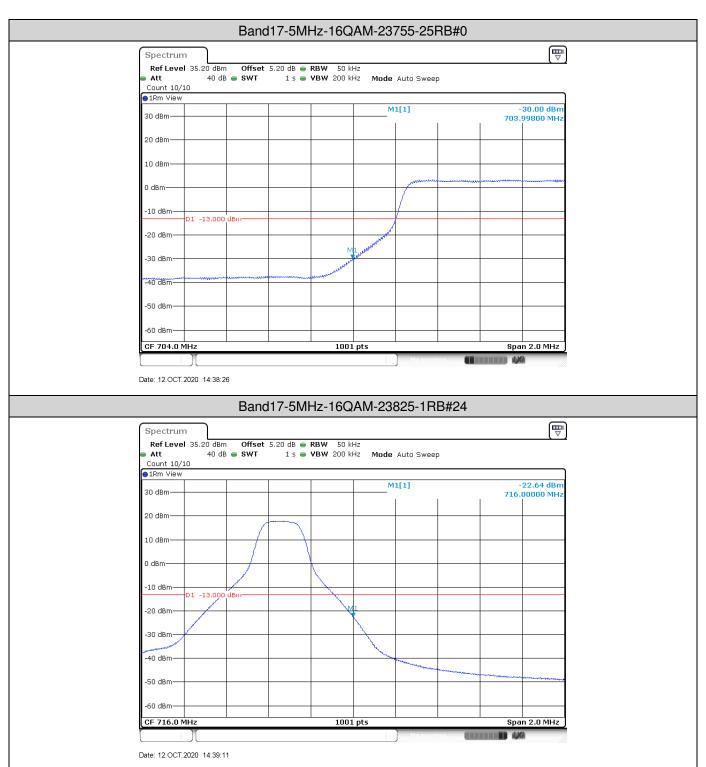
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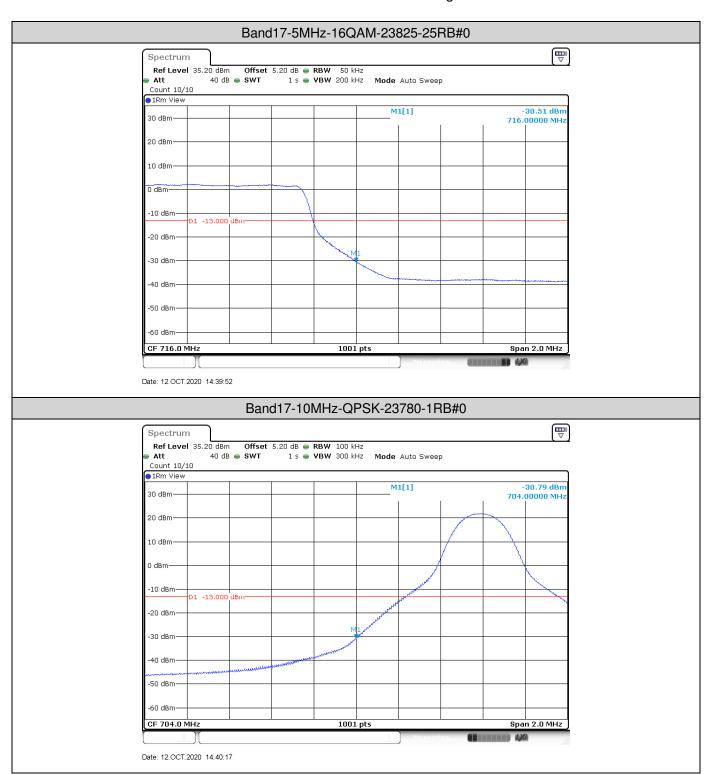
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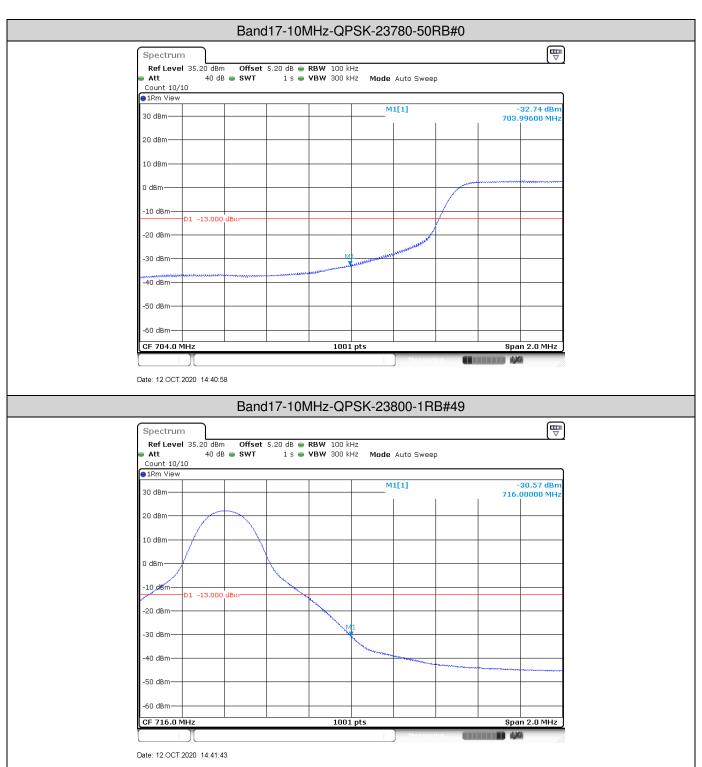
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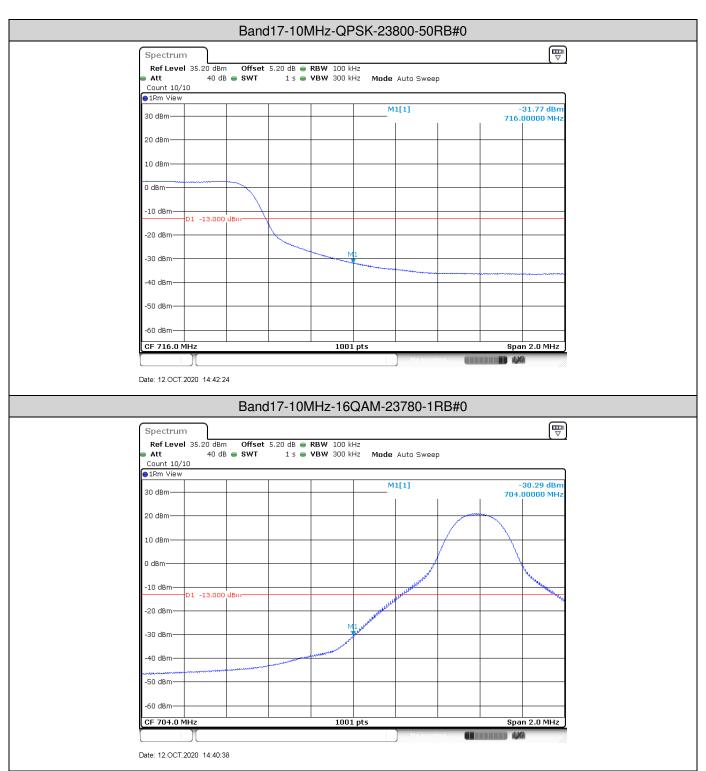
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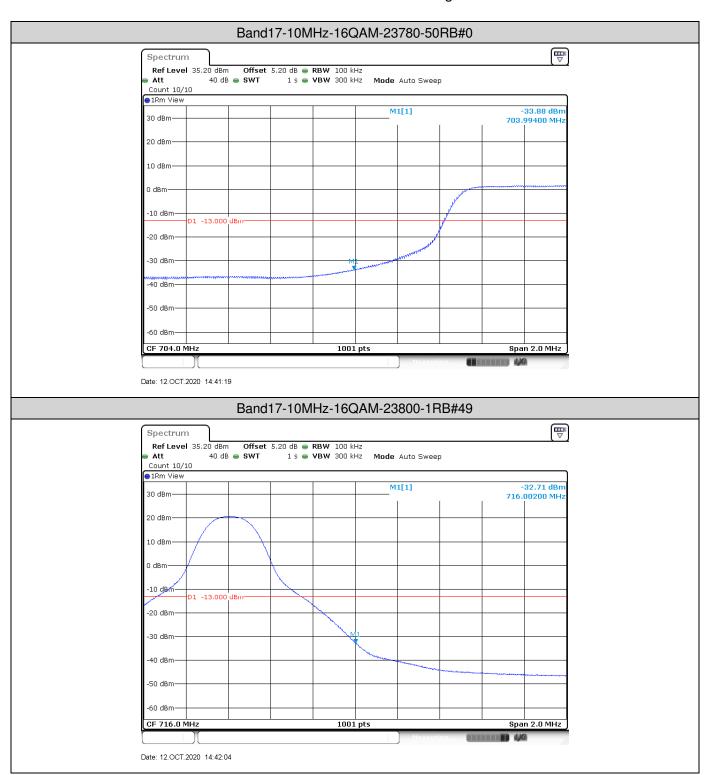
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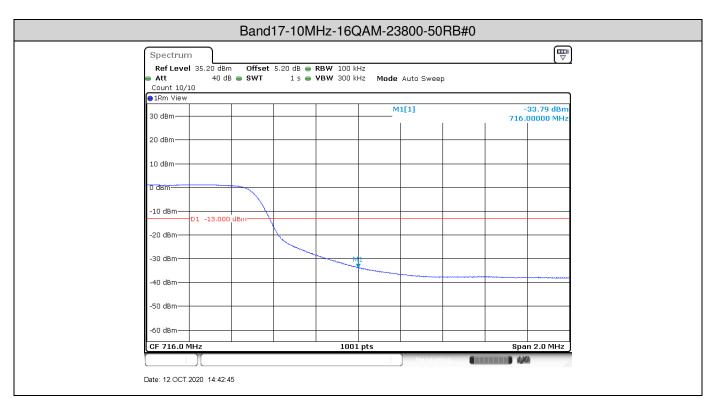
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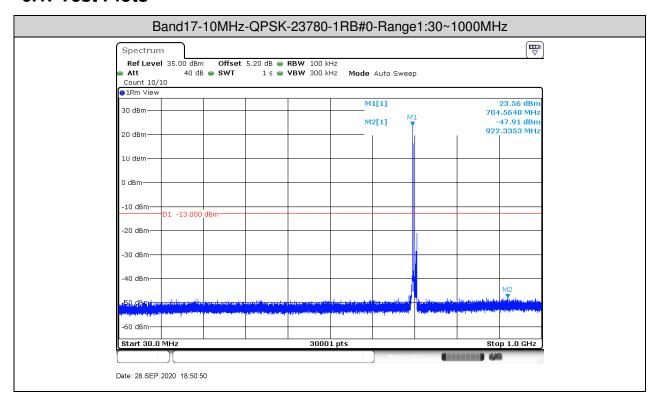
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6. Spurious Emission at Antenna Terminal

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

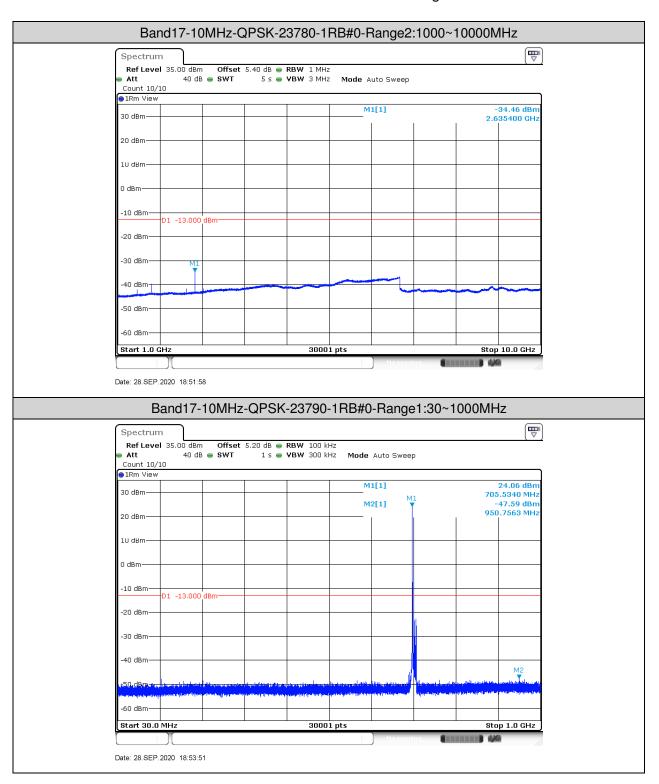






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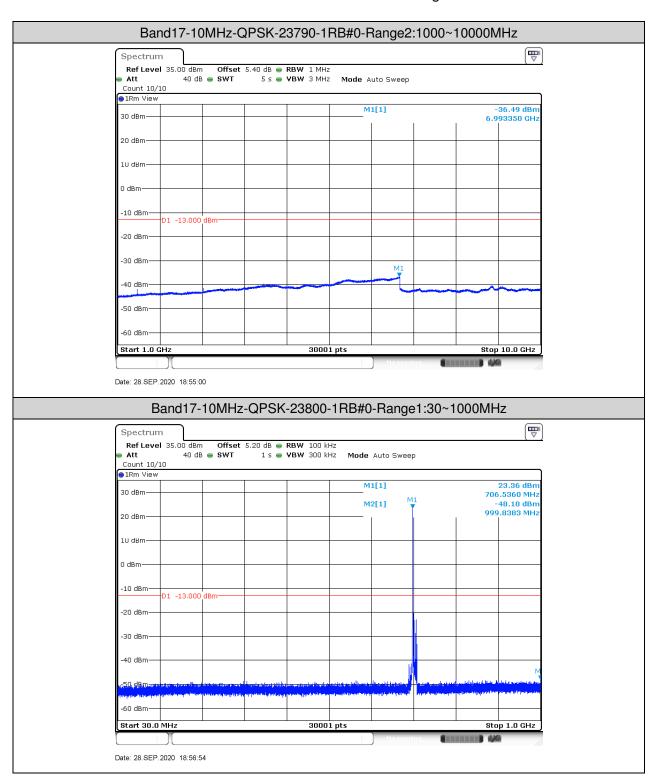






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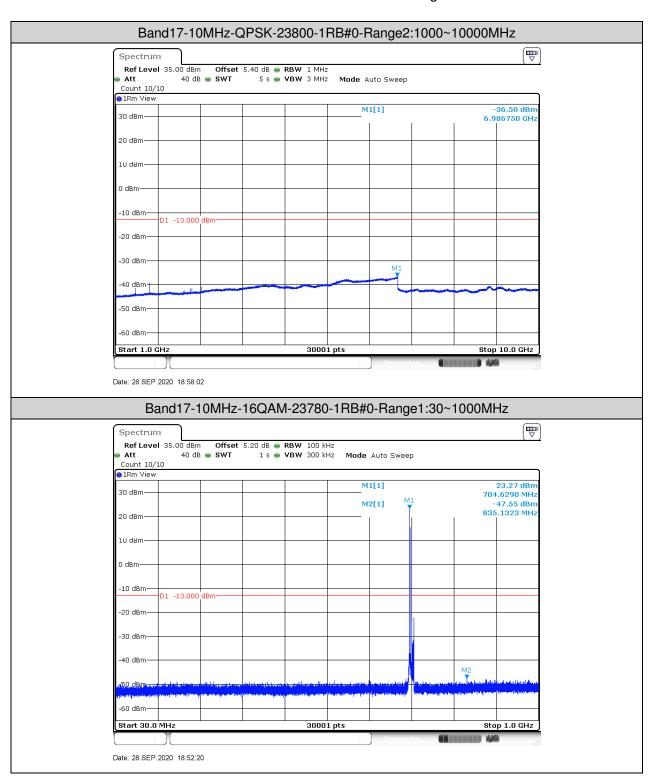






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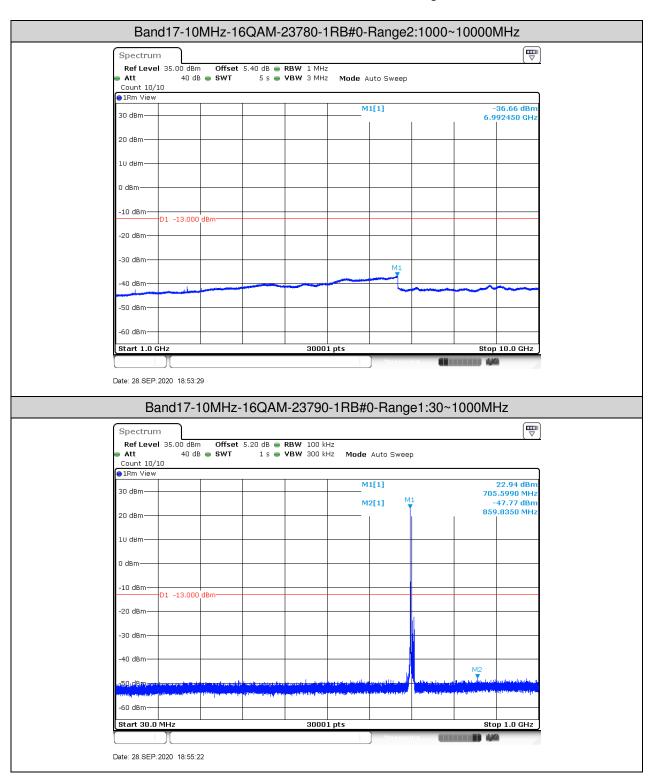






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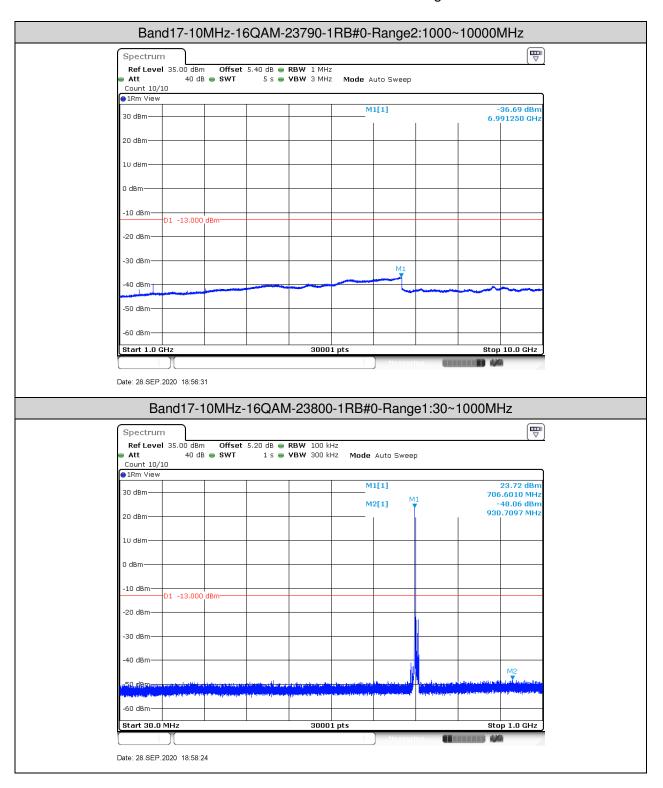
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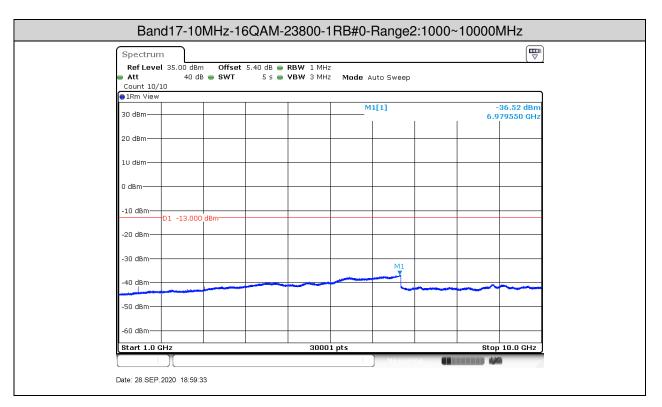
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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.6305	-73.34	-13.00	60.34	Vertical
110.4655	-65.07	-13.00	52.07	Vertical
1408.8818	-53.49	-13.00	40.49	Vertical
2818.7638	-52.13	-13.00	39.13	Vertical
3522.7809	-60.69	-13.00	47.69	Vertical
9326.2931	-52.52	-13.00	39.52	Vertical
44.7447	-64.37	-13.00	51.37	Horizontal
229.7815	-68.66	-13.00	55.66	Horizontal
1408.8818	-49.29	-13.00	36.29	Horizontal
2113.8228	-59.99	-13.00	46.99	Horizontal
2818.3637	-51.33	-13.00	38.33	Horizontal
3523.0609	-59.46	-13.00	46.46	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.6006	-75.42	-13.00	62.42	Vertical
109.9805	-64.78	-13.00	51.78	Vertical
438.8269	-66.99	-13.00	53.99	Vertical
1410.8822	-55.10	-13.00	42.10	Vertical
2822.3645	-50.58	-13.00	37.58	Vertical
3528.1011	-59.37	-13.00	46.37	Vertical
45.7148	-63.84	-13.00	50.84	Horizontal
88.0089	-75.94	-13.00	62.94	Horizontal
241.7616	-68.43	-13.00	55.43	Horizontal
1411.2823	-49.36	-13.00	36.36	Horizontal
2822.3645	-49.87	-13.00	36.87	Horizontal
3528.1011	-59.31	-13.00	46.31	Horizontal



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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.3880	-74.50	-13.00	61.50	Vertical
109.9320	-64.38	-13.00	51.38	Vertical
444.0652	-67.86	-13.00	54.86	Vertical
1412.8826	-53.69	-13.00	40.69	Vertical
2826.3653	-49.85	-13.00	36.85	Vertical
3532.8613	-61.34	-13.00	48.34	Vertical
44.6962	-64.36	-13.00	51.36	Horizontal
103.4812	-75.64	-13.00	62.64	Horizontal
235.6018	-68.97	-13.00	55.97	Horizontal
1412.8826	-48.34	-13.00	35.34	Horizontal
2826.3653	-48.29	-13.00	35.29	Horizontal
3533.1413	-60.14	-13.00	47.14	Horizontal

Remark:

- According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 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 displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

	Voltage											
Band	Bandwid th	Modulatio n	Channe I	RB Configure	Voltag e [Vdc]	Tempe rature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict		
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	3.90	0.005501	±2.5	PASS		
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	5.50	0.007757	±2.5	PASS		
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	2.20	0.003103	±2.5	PASS		
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	1.60	0.002254	±2.5	PASS		
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	2.50	0.003521	±2.5	PASS		
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	2.40	0.003380	±2.5	PASS		
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-0.20	-0.000281	±2.5	PASS		
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-0.40	-0.000563	±2.5	PASS		
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	2.20	0.003094	±2.5	PASS		
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	2.80	0.003949	±2.5	PASS		
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	1.00	0.001410	±2.5	PASS		
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	1.30	0.001834	±2.5	PASS		
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	0.60	0.000845	±2.5	PASS		
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	1.70	0.002394	±2.5	PASS		
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	3.00	0.004225	±2.5	PASS		
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-0.50	-0.000703	±2.5	PASS		
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-1.10	-0.001547	±2.5	PASS		
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	0.60	0.000844	±2.5	PASS		

8.2. Frequency Vs Temperature

	Temperature												
Band	Bandwid th	Modulatio n	Channe I	RB Configure	Voltag e [Vdc]	Tempe rature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict			
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	0.20	0.000282	±2.5	PASS			
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	1.10	0.001551	±2.5	PASS			
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	2.00	0.002821	±2.5	PASS			
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-1.10	-0.001551	±2.5	PASS			
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-1.40	-0.001975	±2.5	PASS			
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-0.80	-0.001128	±2.5	PASS			
Band17	10MHz	QPSK	23780	50RB#0	NV	30	0.10	0.000141	±2.5	PASS			



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					1			1		
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-1.50	-0.002113	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.60	-0.000845	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	1.40	0.001972	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	1.90	0.002676	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	1.10	0.001549	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-0.80	-0.001125	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	0.50	0.000703	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-1.40	-0.001969	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-2.10	-0.002954	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	1.00	0.001406	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	0.80	0.001125	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	2.00	0.002821	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	2.00	0.002821	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	1.10	0.001551	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	1.50	0.002116	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	0.50	0.000705	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	0.70	0.000986	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	0.70	0.000986	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	2.30	0.003239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	3.30	0.004648	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	0.90	0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	1.00	0.001408	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	1.90	0.002676	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	4.60	0.006479	±2.5	PASS



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Band17	10MHz	16QAM	23790	50RB#0	NV	50	1.60	0.002254	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	1.00	0.001406	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-0.20	-0.000281	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	0.80	0.001125	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-2.10	-0.002954	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-2.00	-0.002813	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	1.90	0.002672	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	0.50	0.000703	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-0.50	-0.000703	±2.5	PASS

The End

