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Appendix B.6

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.81	19.84	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.93	19.96	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.80	19.83	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.88	18.91	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.95	19.98	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.07	20.10	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.97	20.00	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.07	19.10	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.16	19.19	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.16	20.19	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.01	20.04	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.16	19.19	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.98	19.01	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.10	19.13	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.12	19.15	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.95	17.98	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.16	19.19	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.33	19.36	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.29	19.32	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.14	18.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.29	19.32	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.26	19.29	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.14	19.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.15	18.18	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.83	19.86	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.83	19.86	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.86	19.89	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	21.85	18.88	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.97	20.00	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.00	20.03	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.98	20.01	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.05	19.08	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.09	20.12	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.04	20.07	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.05	20.08	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.11	19.14	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.12	19.15	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.10	19.13	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.13	19.16	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.84	17.87	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.31	19.34	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.22	19.25	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.17	19.20	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.05	18.08	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.31	19.34	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.29	19.32	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.18	19.21	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.10	18.13	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.77	19.80	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.12	20.15	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.83	19.86	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.97	19.00	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.92	19.95	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.18	20.21	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.88	19.91	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.04	19.07	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.93	19.96	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.25	20.28	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.94	19.97	34.77	PASS



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					Page:	4 01 4	+_	
Band12	5MHz	QPSK	23155	25RB#0	22.14	19.17	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.95	18.98	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.43	19.46	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.08	19.11	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.94	17.97	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.13	19.16	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.41	19.44	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.17	19.20	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.05	18.08	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.21	19.24	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.50	19.53	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.07	19.10	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.10	18.13	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.84	19.87	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.04	20.07	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.98	20.01	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.06	19.09	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.97	20.00	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.08	20.11	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.03	20.06	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.07	19.10	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.06	20.09	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.12	20.15	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.02	20.05	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.07	19.10	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.06	19.09	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.23	19.26	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.26	19.29	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.03	18.06	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.20	19.23	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.32	19.35	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.27	19.30	34.77	PASS



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Band12	10MHz	16QAM	23095	50RB#0	21.05	18.08	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.30	19.33	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.37	19.40	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.13	19.16	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.07	18.10	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.42	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.38	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.30	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.12	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.00	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.98	13	PASS



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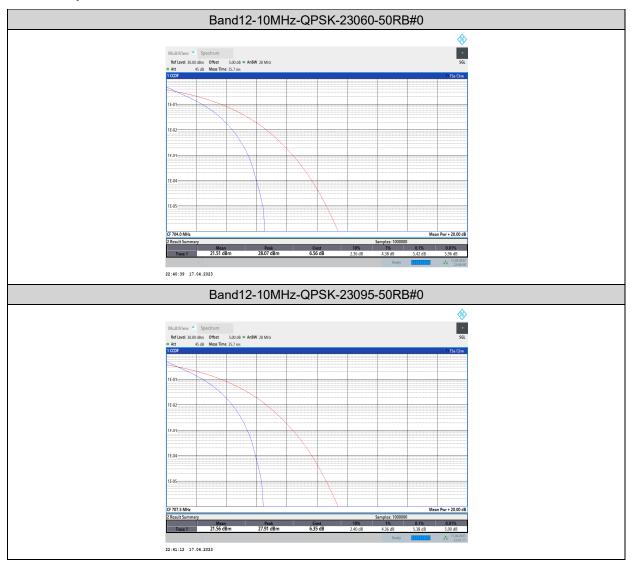
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Test Graphs





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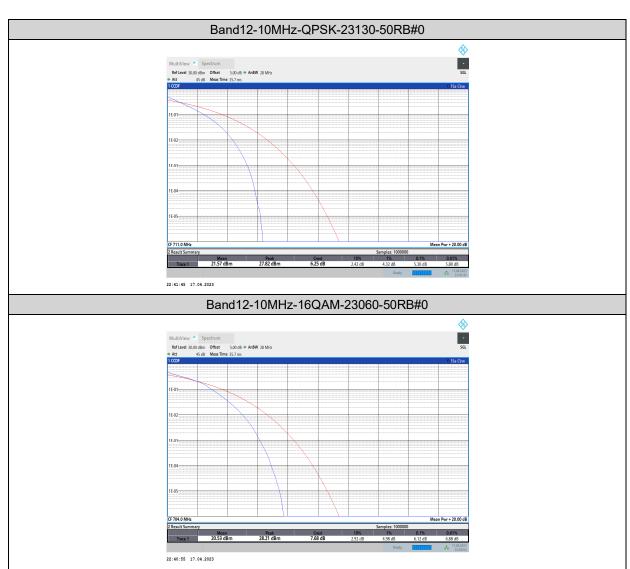
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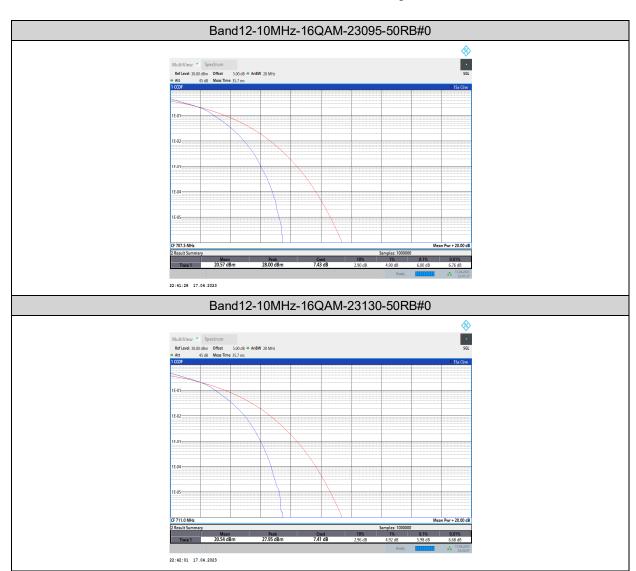
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS



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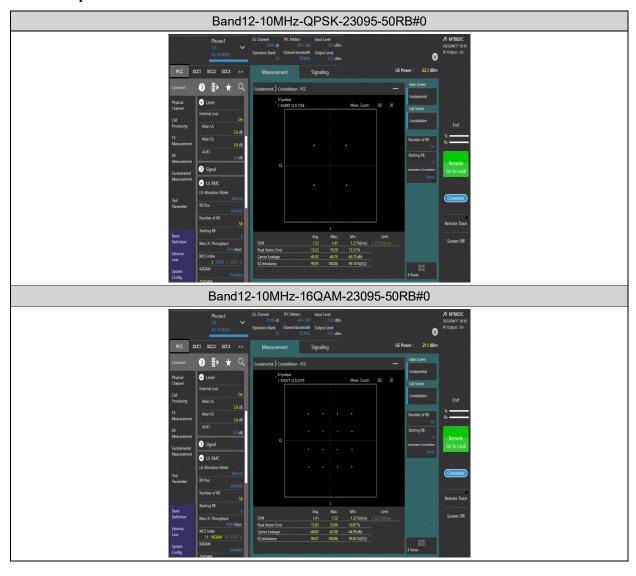


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Test Graphs





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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.084	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.084	1.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.085	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.095	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.098	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.686	2.90	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.681	2.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.684	2.90	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.677	2.90	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.677	2.90	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.679	2.91	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.475	5.01	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.471	5.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.474	5.03	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.471	5.06	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.470	5.01	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.472	5.01	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.949	9.82	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.951	9.78	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.950	9.84	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.904	9.66	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.920	9.82	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.923	9.82	PASS



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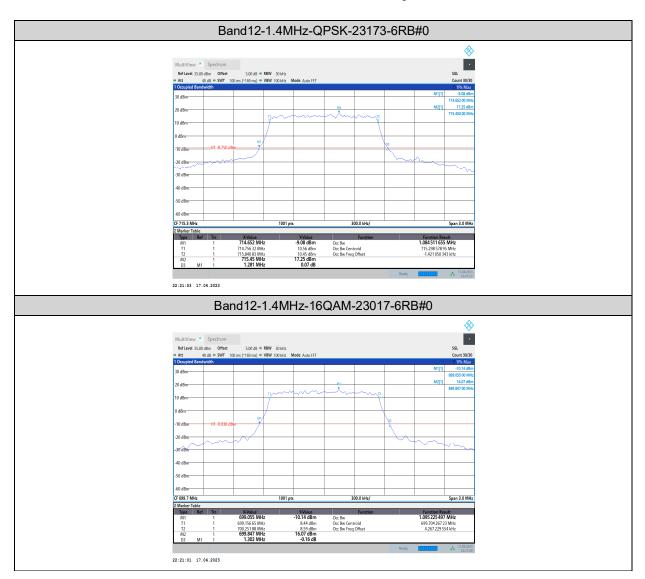
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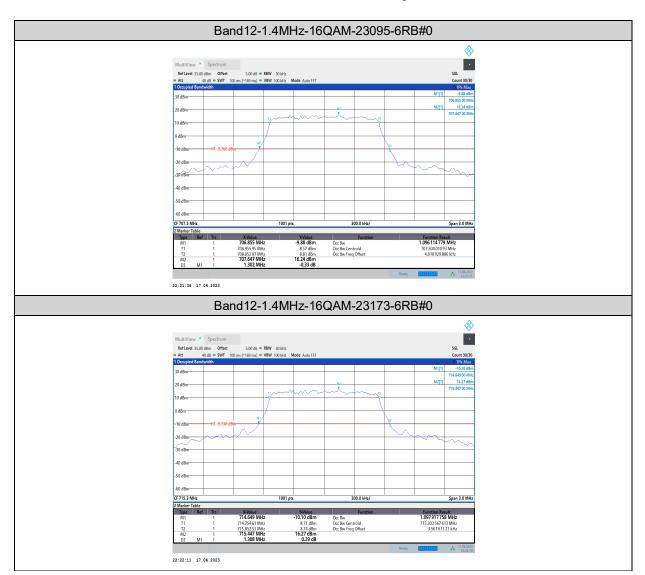
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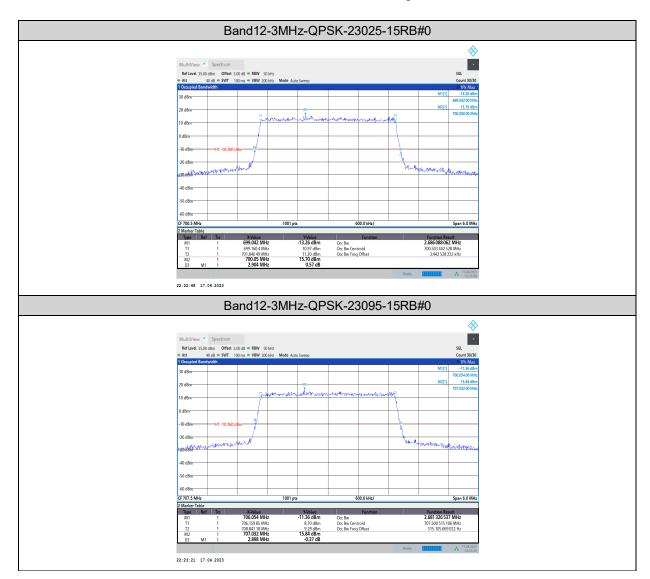
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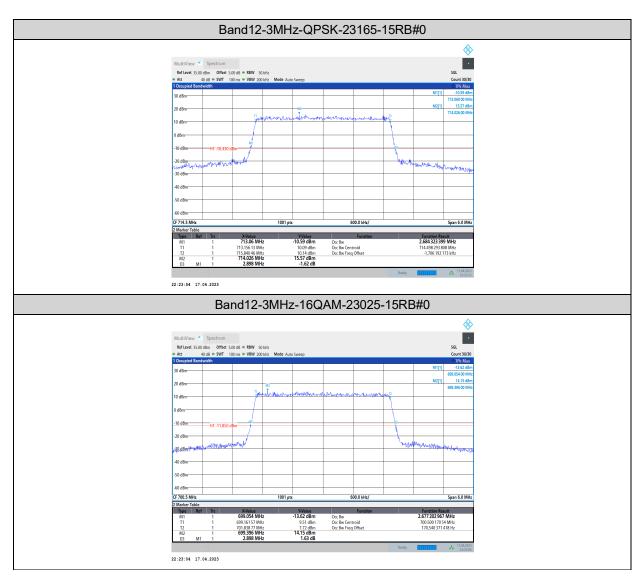
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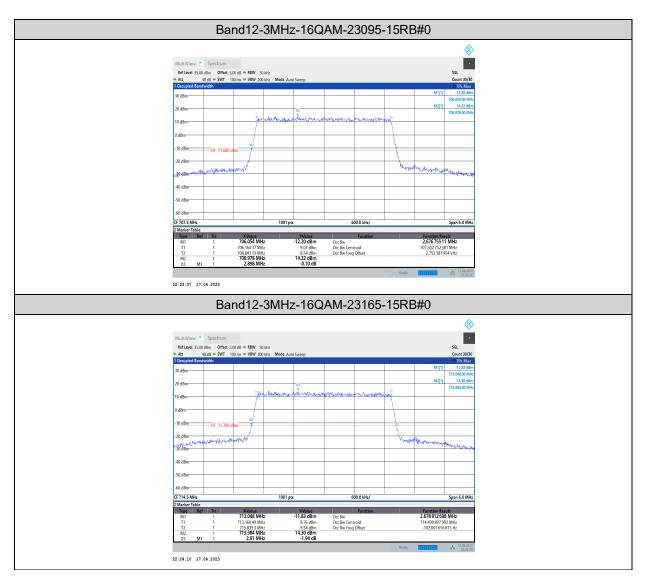
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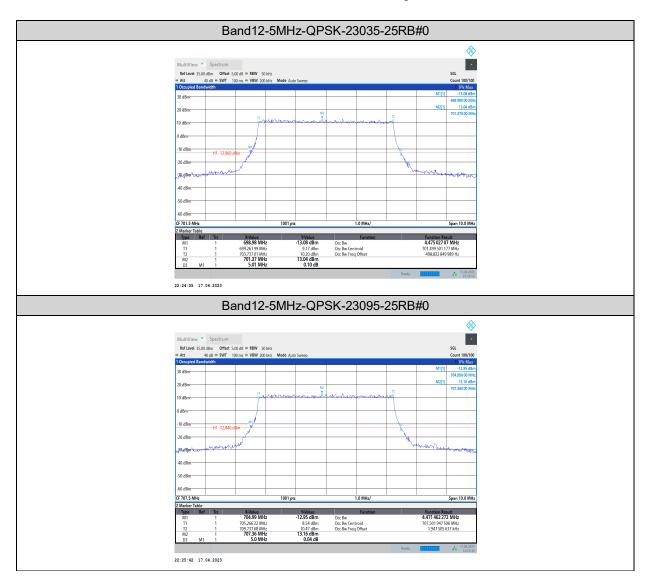
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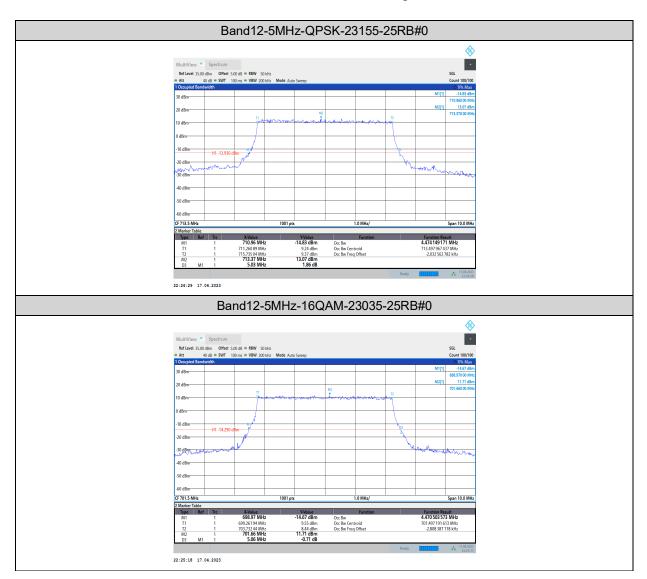
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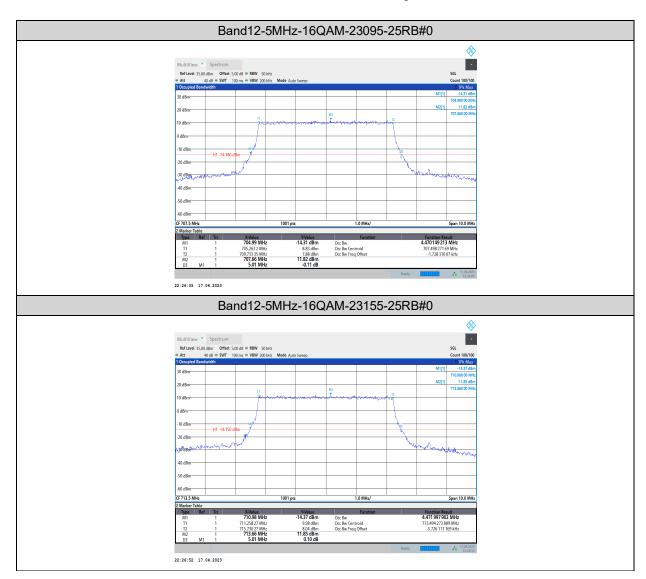
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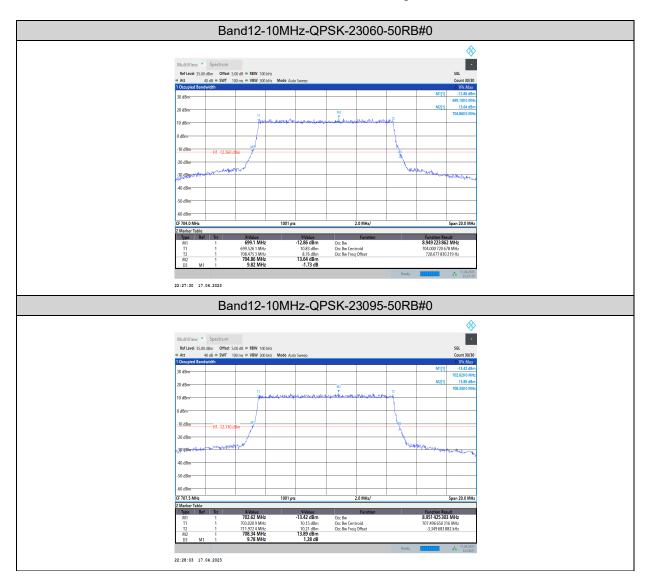
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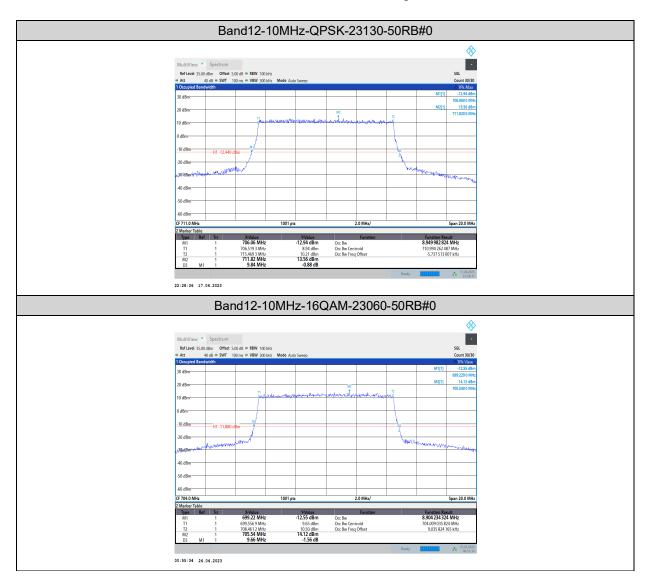
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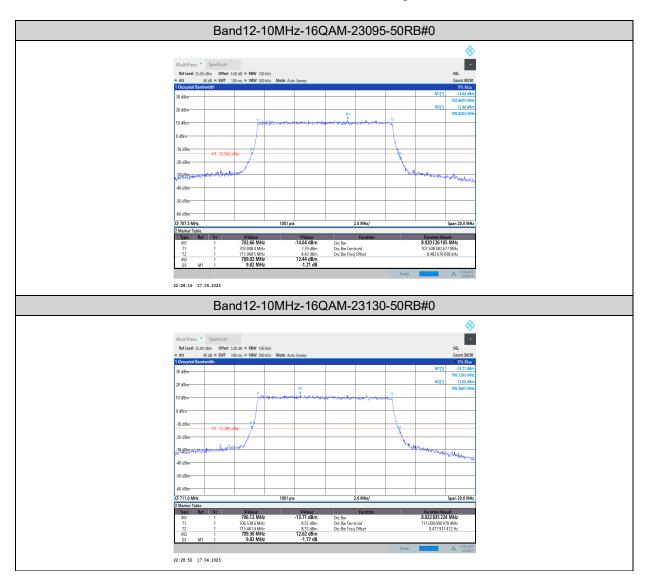
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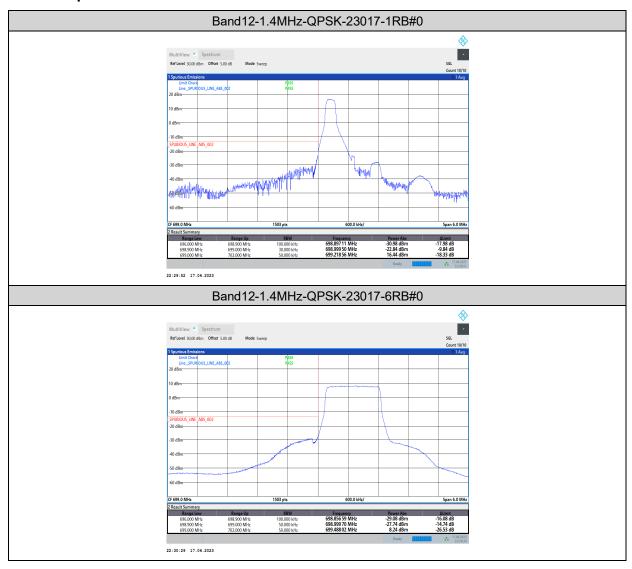
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Band Edge

Test Graphs





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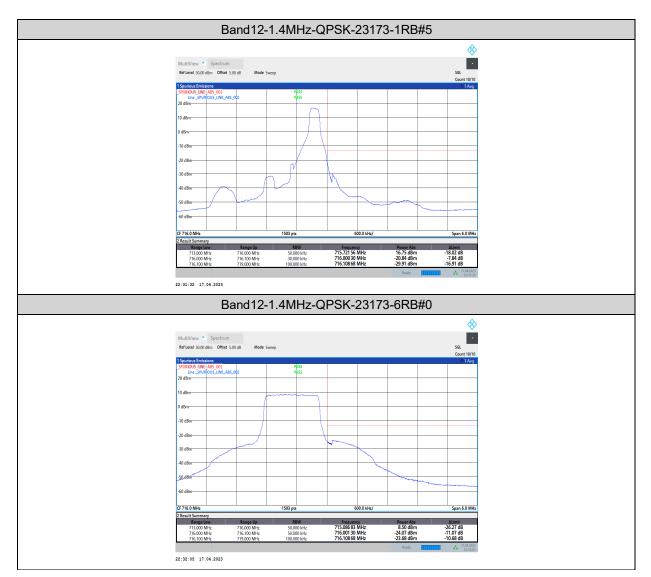
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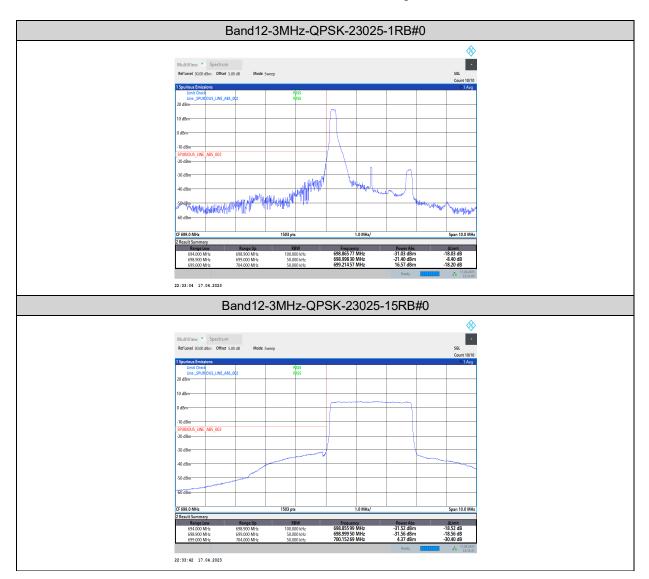
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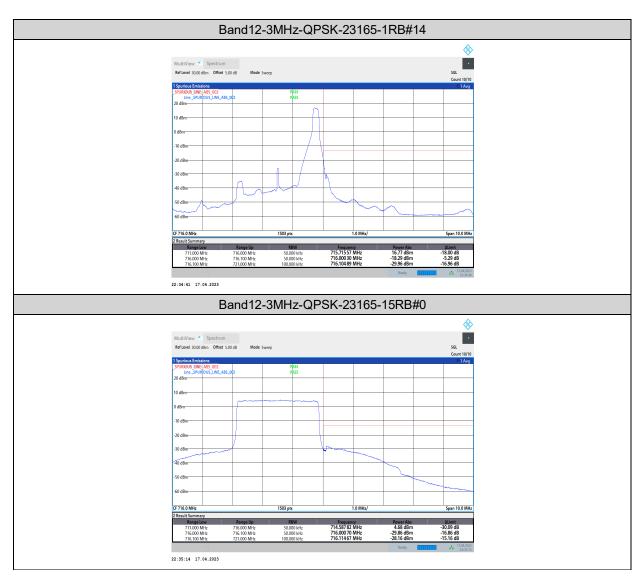
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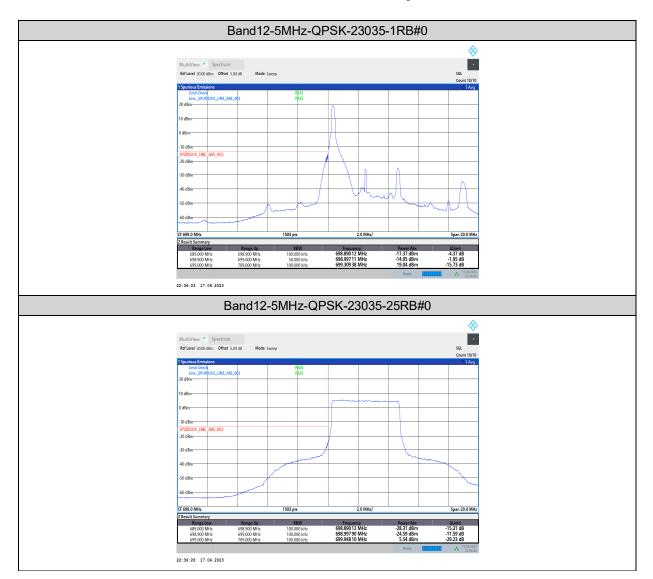
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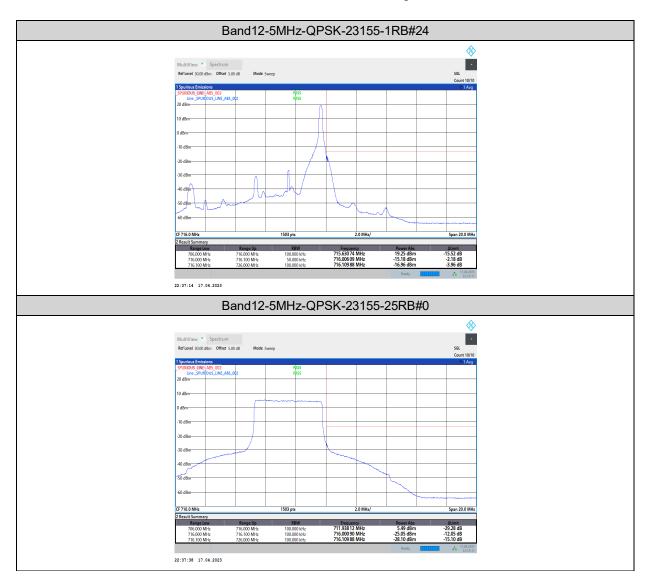
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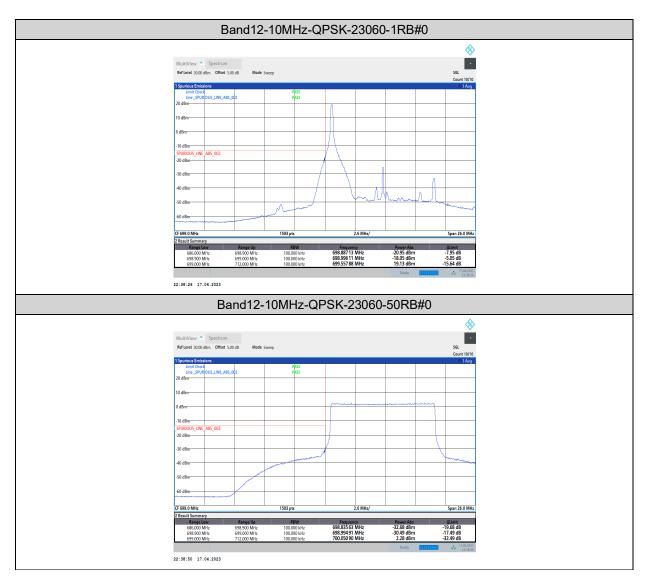
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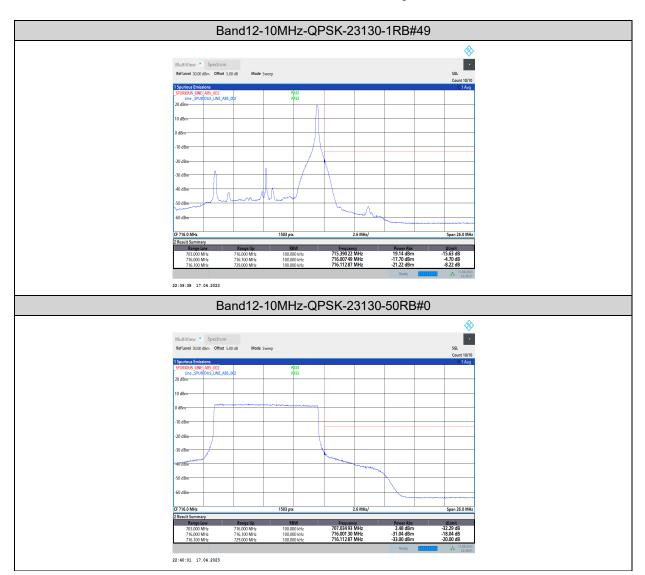
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Conducted Spurious Emission

Test Graphs





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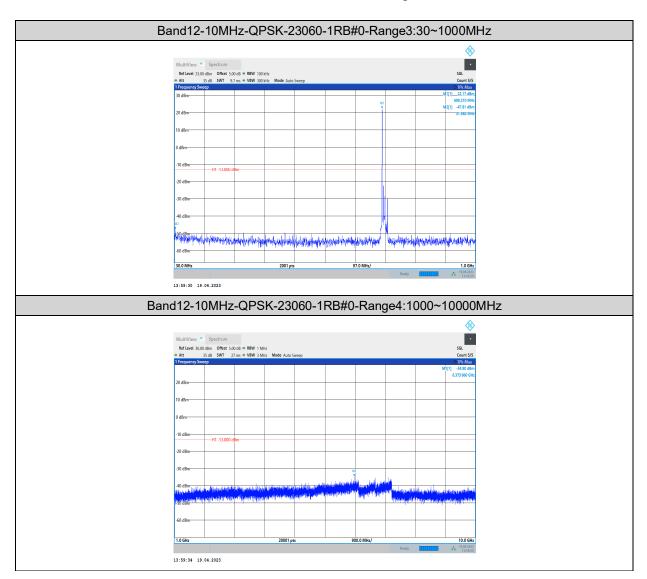
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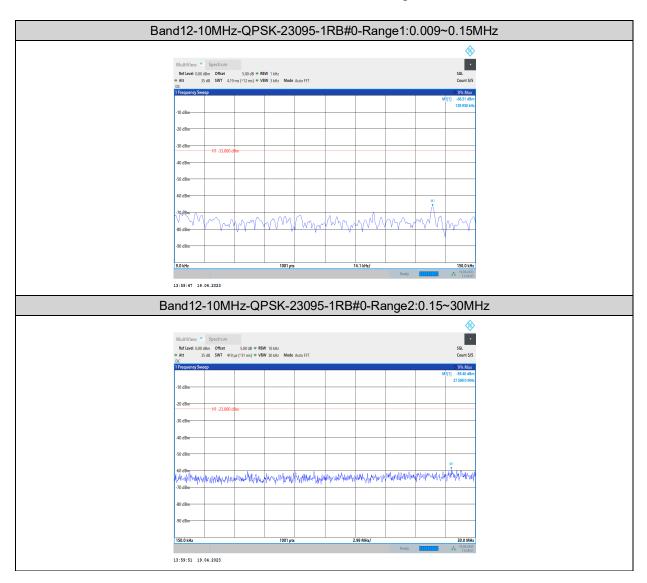
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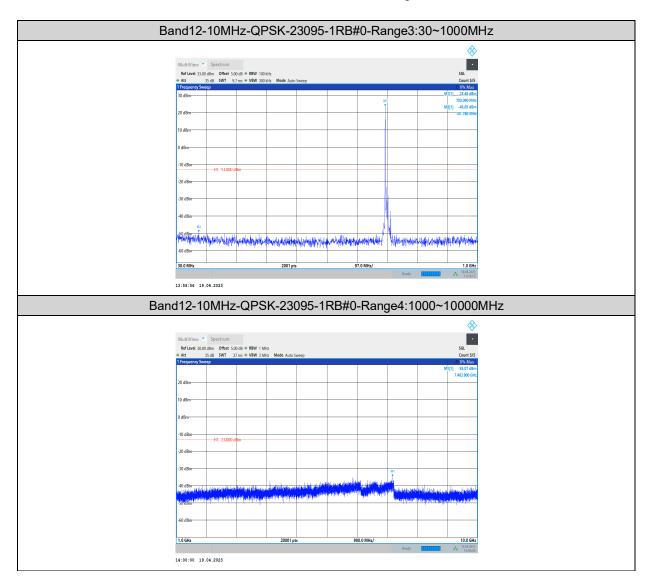
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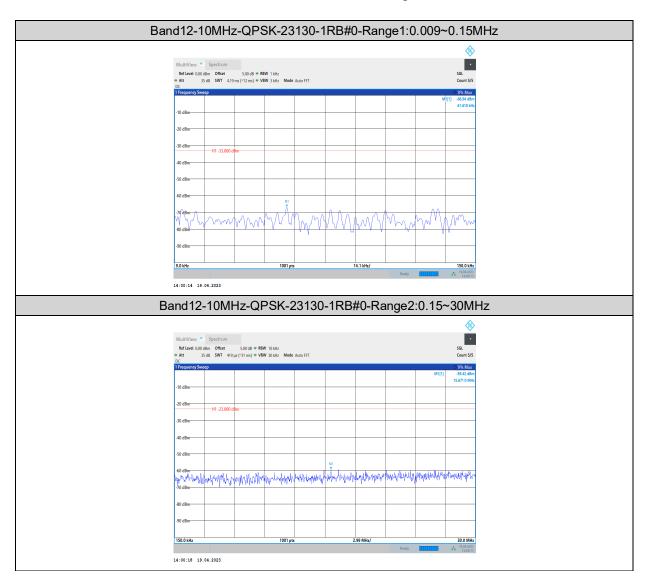
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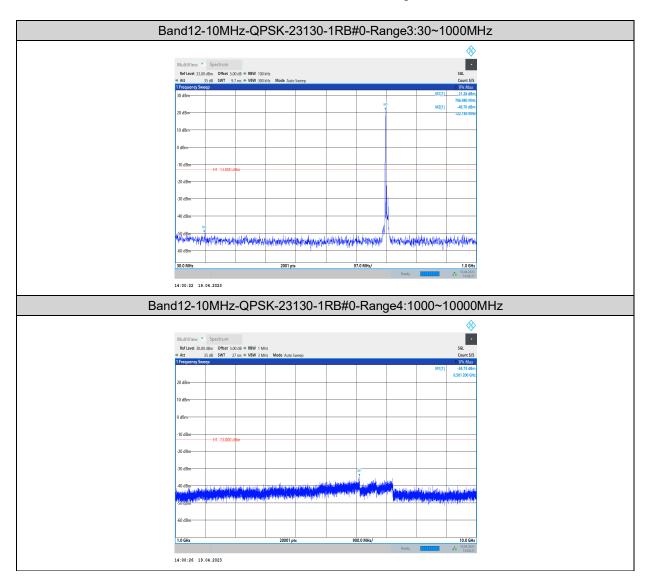
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Field Strength of Spurious Radiation

Test Band = LTE_B12 _10MHz _TM1 Test Channel = LCH

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	5		
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1399.3543	57.67	-53.71	25.80	-65.50	-13.00	52.50	189	14	Horizontal		
2	2098.8028	72.10	-52.08	27.49	-47.75	-13.00	34.75	256	67	Horizontal		
3	3125.8607	54.35	-50.22	30.20	-60.93	-13.00	47.93	325	167	Horizontal		
4	4893.5112	51.85	-44.98	33.06	-55.33	-13.00	42.33	225	74	Horizontal		
5	7086.231	50.36	-43.34	36.73	-51.51	-13.00	38.51	263	221	Horizontal		
6	9086.3453	49.82	-40.55	38.70	-47.29	-13.00	34.29	263	134	Horizontal		

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	5		
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1517.6434	55.60	-53.37	25.71	-67.32	-13.00	54.32	302	300	Vertical		
2	2098.8028	71.68	-52.08	27.49	-48.17	-13.00	35.17	258	313	Vertical		
3	3284.5224	53.11	-49.77	30.67	-61.25	-13.00	48.25	336	155	Vertical		
4	5118.7748	51.95	-44.15	33.54	-53.92	-13.00	40.92	254	360	Vertical		
5	7353.1529	50.32	-42.78	36.89	-50.83	-13.00	37.83	189	319	Vertical		
6	9727.6779	48.19	-39.05	38.76	-47.36	-13.00	34.36	363	181	Vertical		



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Test Band = LTE_B12 _10MHz _TM1 **Test Channel = MCH**

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	5		
-	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1406.2973	63.97	-53.65	25.79	-59.15	-13.00	46.15	189	34	Horizontal		
2	2109.0888	76.71	-52.11	27.48	-43.18	-13.00	30.18	256	187	Horizontal		
3	3227.4351	53.56	-50.03	30.51	-61.22	-13.00	48.22	325	187	Horizontal		
4	4851.3386	52.55	-44.95	32.81	-54.85	-13.00	41.85	221	227	Horizontal		
5	7175.9765	49.63	-43.43	37.10	-51.96	-13.00	38.96	226	352	Horizontal		
6	9582.3881	48.38	-39.53	39.16	-47.25	-13.00	34.25	326	141	Horizontal		

Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle		
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity	
1	1469.8134	55.78	-53.28	25.66	-67.10	-13.00	54.10	263	284	Vertical	
2	2109.0888	75.97	-52.11	27.48	-43.92	-13.00	30.92	255	93	Vertical	
3	2986.9996	54.06	-50.35	29.67	-61.88	-13.00	48.88	214	159	Vertical	
4	3826.8522	54.19	-48.19	30.45	-58.81	-13.00	45.81	256	2	Vertical	
5	5652.3615	51.81	-43.46	33.31	-53.60	-13.00	40.60	332	166	Vertical	
6	9084.8024	49.38	-40.53	38.70	-47.71	-13.00	34.71	251	2	Vertical	



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Test Band = LTE_B12 _10MHz _TM1 Test Channel = HCH

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	5		
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1413.2404	66.88	-53.59	25.77	-56.20	-13.00	43.20	189	14	Horizontal		
2	2119.632	65.15	-52.15	27.46	-54.80	-13.00	41.80	256	74	Horizontal		
3	3308.4374	53.86	-49.72	30.53	-60.59	-13.00	47.59	325	266	Horizontal		
4	4998.4285	51.88	-43.99	33.10	-54.27	-13.00	41.27	211	113	Horizontal		
5	7085.4596	50.82	-43.35	36.73	-51.06	-13.00	38.06	189	240	Horizontal		
6	9725.3636	48.06	-39.07	38.75	-47.52	-13.00	34.52	226	147	Horizontal		

Final Data List										
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	D
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity
1	1413.2404	59.15	-53.59	25.77	-63.93	-13.00	50.93	359	239	Vertical
2	2119.8891	62.52	-52.16	27.46	-57.44	-13.00	44.44	287	319	Vertical
3	3153.633	53.90	-50.04	30.31	-61.09	-13.00	48.09	263	140	Vertical
4	5147.5756	52.20	-44.31	33.60	-53.77	-13.00	40.77	321	161	Vertical
5	7106.2888	49.70	-43.31	36.93	-51.94	-13.00	38.94	144	127	Vertical
6	9091.7455	49.70	-40.61	38.70	-47.47	-13.00	34.47	255	60	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-8.10	-0.011449	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-7.50	-0.010601	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-4.40	-0.006219	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-6.70	-0.009470	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-9.00	-0.012721	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-7.10	-0.010035	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-3.60	-0.005088	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.90	-0.009753	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-5.70	-0.008057	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-9.20	-0.013004	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-5.30	-0.007491	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-10.30	-0.014558	PASS

---End of Attachment---



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