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Appendix B.2

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

5 .	B 1 1 111		O	RB	Result	ERP	Limit	V
Band	Bandwidth	Modulation	Channel	Configuration	(dBm)	(dBm)	(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.44	19.3	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.43	19.29	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.34	19.2	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.37	19.23	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.34	19.2	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.36	19.22	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.38	19.24	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.99	18.85	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.28	19.14	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.39	18.25	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	20.75	17.61	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.79	17.65	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.32	19.18	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.33	19.19	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.15	19.01	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.47	18.33	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.08	18.94	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.17	19.03	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.91	18.77	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.12	17.98	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.38	18.24	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	20.74	17.6	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	19.99	16.85	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.07	16.93	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.45	19.31	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.45	19.31	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.34	19.2	38.45	PASS



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Band5	3MHz	QPSK	20415	15RB#0	22.4	19.26	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.37	19.23	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.34	19.2	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.36	19.22	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.05	18.91	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.35	19.21	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.11	18.97	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	20.3	17.16	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.3	18.16	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.3	19.16	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.32	19.18	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.91	18.77	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.5	18.36	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.16	19.02	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.17	19.03	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.75	18.61	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.03	17.89	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.91	18.77	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.4	18.26	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	19.28	16.14	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.49	17.35	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.37	19.23	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.45	19.31	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.42	19.28	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.28	19.14	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.34	19.2	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.34	19.2	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.4	19.26	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.74	18.6	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.47	19.33	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.34	19.2	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	20.26	17.12	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.68	18.54	38.45	PASS



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		7			Page:	4 01 42		
Band5	5MHz	16QAM	20425	1RB#0	22.34	19.2	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.29	19.15	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.29	19.15	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.37	18.23	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.31	19.17	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.2	19.06	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.32	19.18	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.82	17.68	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.26	19.12	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.95	18.81	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	19.22	16.08	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.86	17.72	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.43	19.29	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.45	19.31	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.39	19.25	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.3	19.16	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.3	19.16	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.34	19.2	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.39	19.25	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.13	18.99	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.35	19.21	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.45	19.31	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.06	17.92	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.91	18.77	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.44	19.3	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.31	19.17	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.82	18.68	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	21.53	18.39	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.71	18.57	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22	18.86	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.52	18.38	38.45	PASS
Band5	10MHz	16QAM	20525	27RB#0	21.19	18.05	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.85	18.71	38.45	PASS



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Band5	10MHz	16QAM	20600	1RB#24	22.25	19.11	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	20.26	17.12	38.45	PASS
Band5	10MHz	16QAM	20600	27RB#0	21.14	18	38.45	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.38	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.26	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.26	13	PASS
Band5	10MHz	16QAM	20450	27RB#0	6.10	13	PASS
Band5	10MHz	16QAM	20525	27RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20600	27RB#0	5.90	13	PASS

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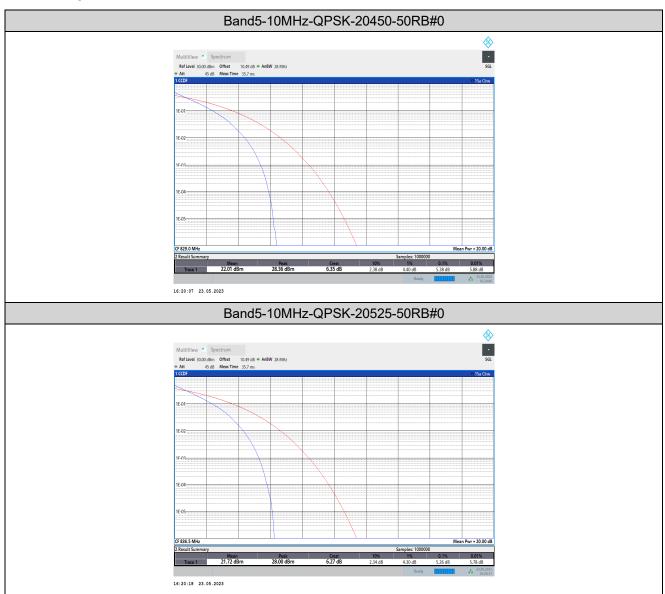


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Test Graphs





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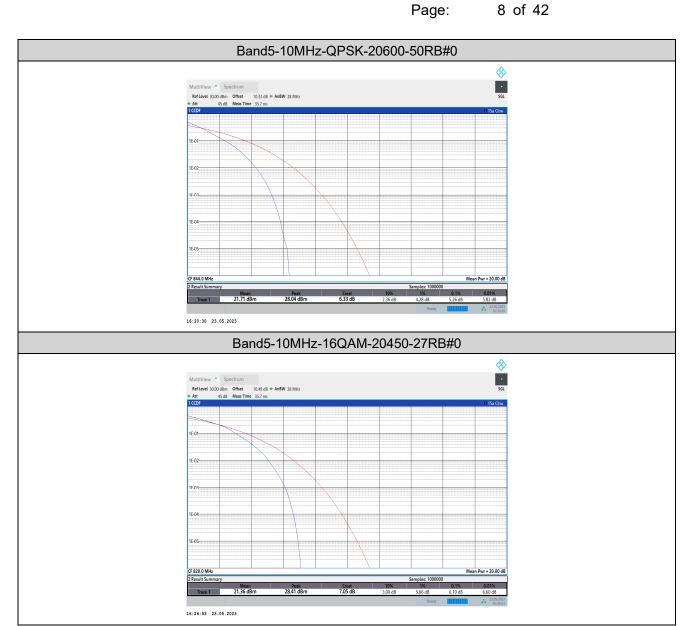
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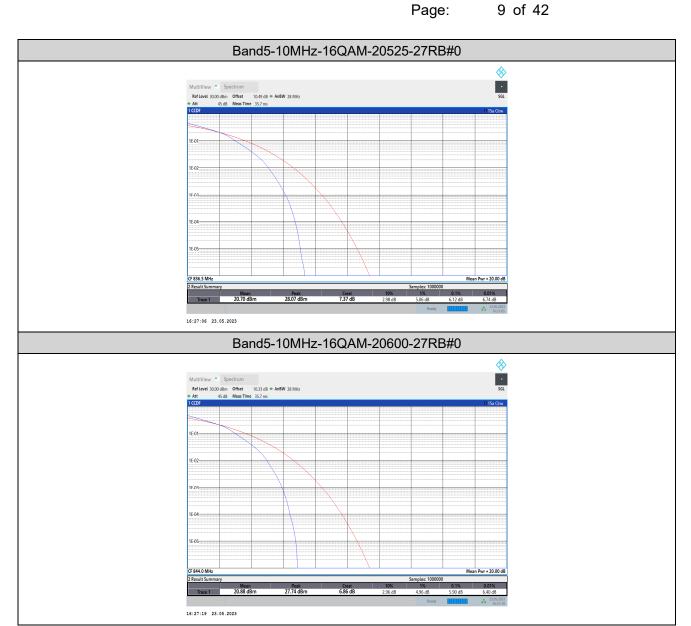
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	27RB#0	PASS	PASS

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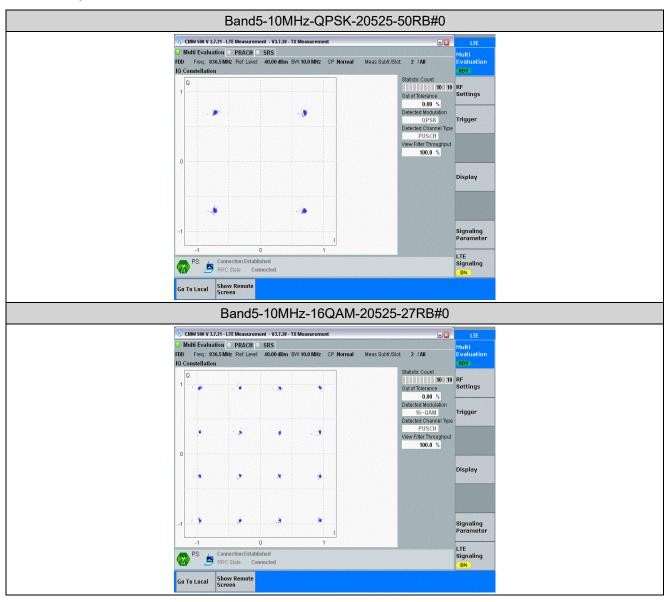


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Test Graphs





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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.42	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.099	1.47	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.098	1.46	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.105	1.50	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.103	1.47	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.108	1.50	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.681	3.10	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	3.17	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.68	3.13	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.683	3.11	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.686	3.25	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.681	3.11	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.468	4.98	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.448	5.00	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.444	4.95	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.452	4.91	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.459	5.00	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.44	4.87	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.895	9.56	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.877	9.56	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.858	9.46	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.927	6.42	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.926	6.38	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.913	6.48	PASS



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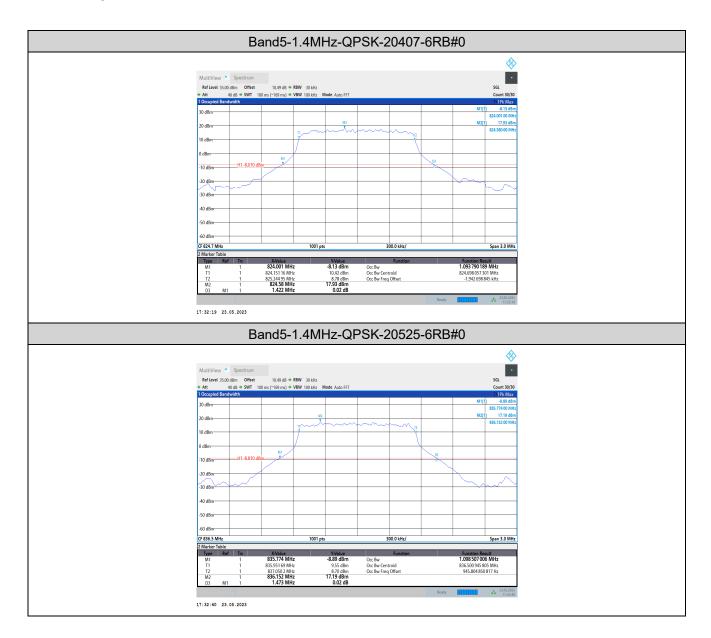


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Test Graphs





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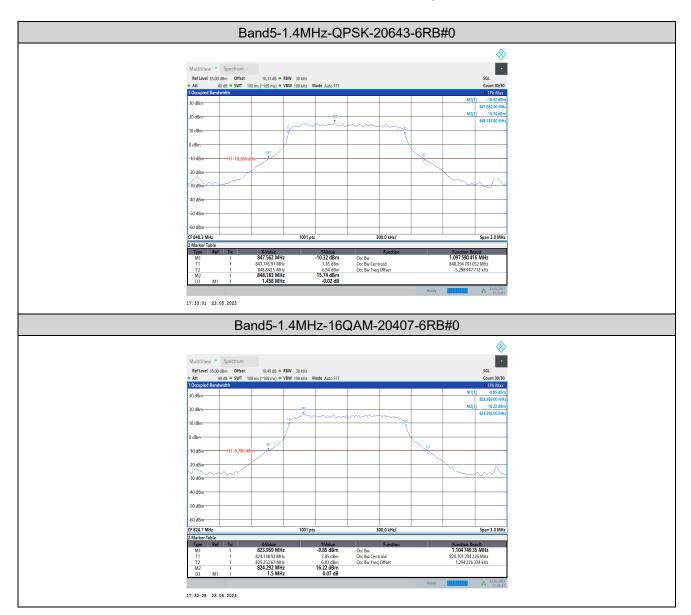
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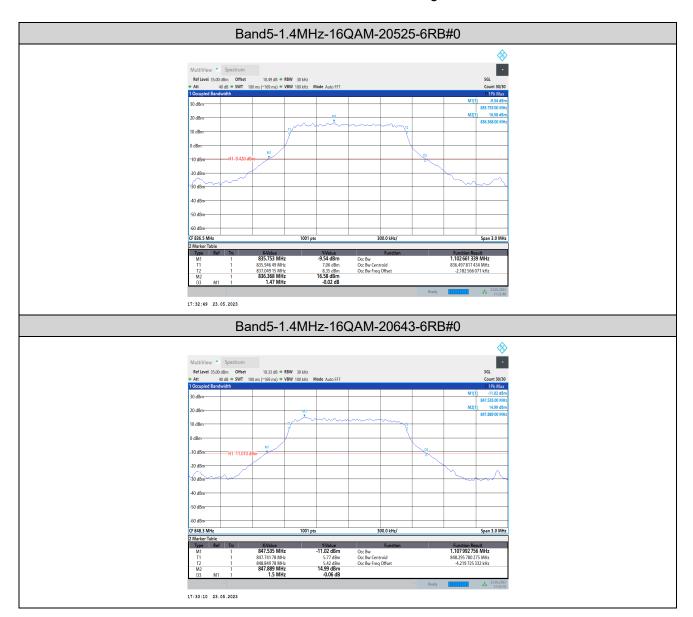
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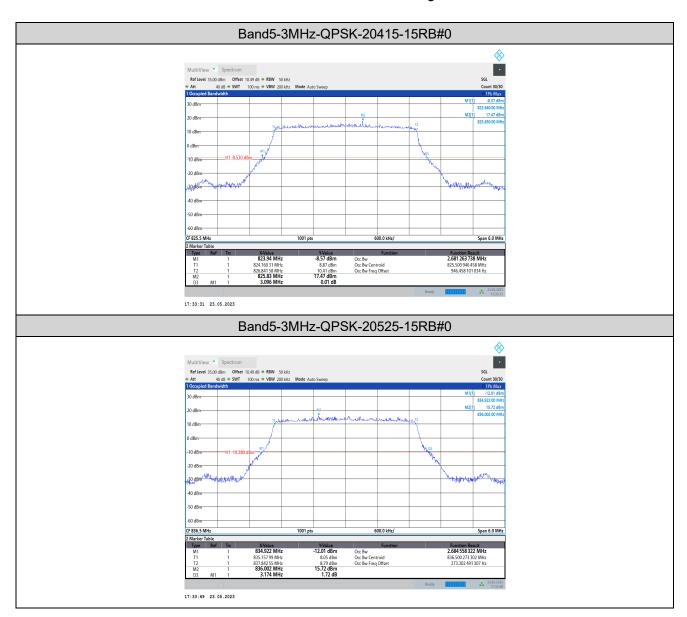
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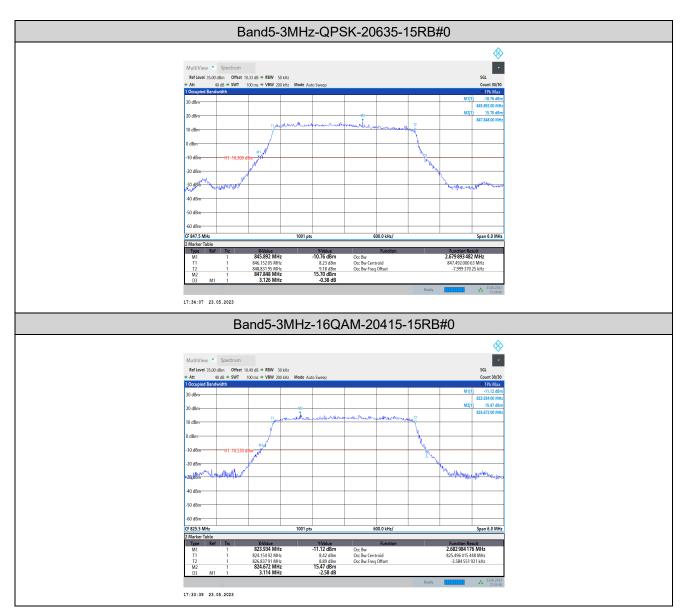
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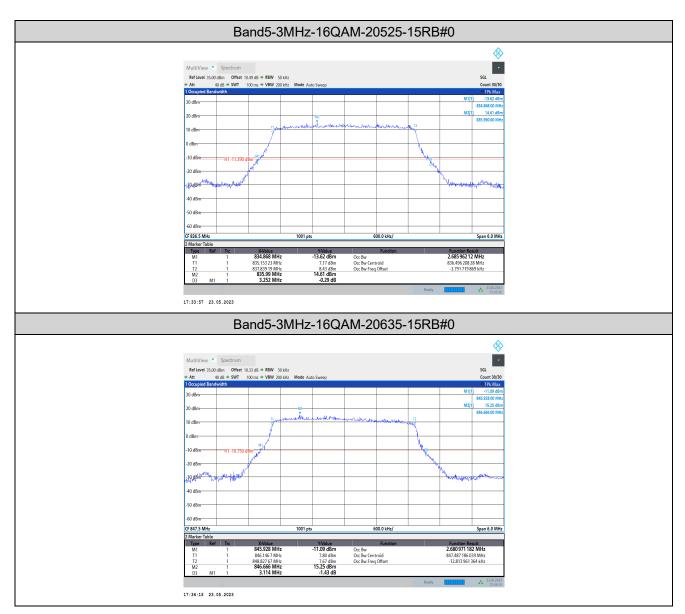
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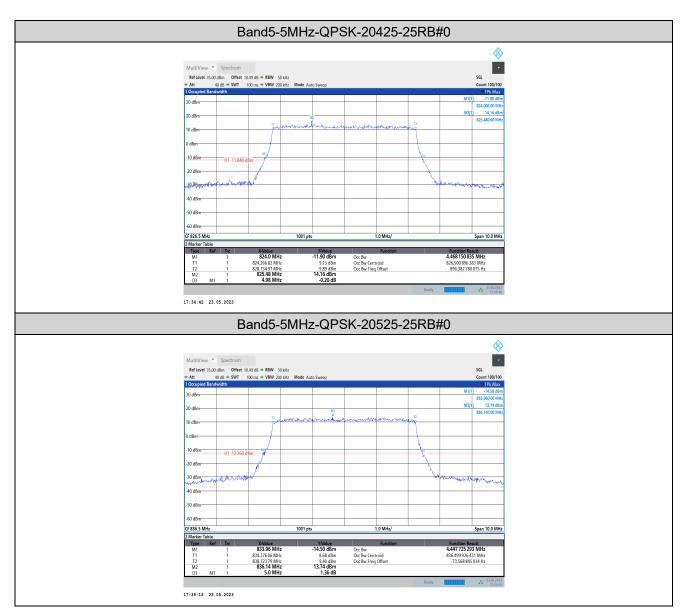
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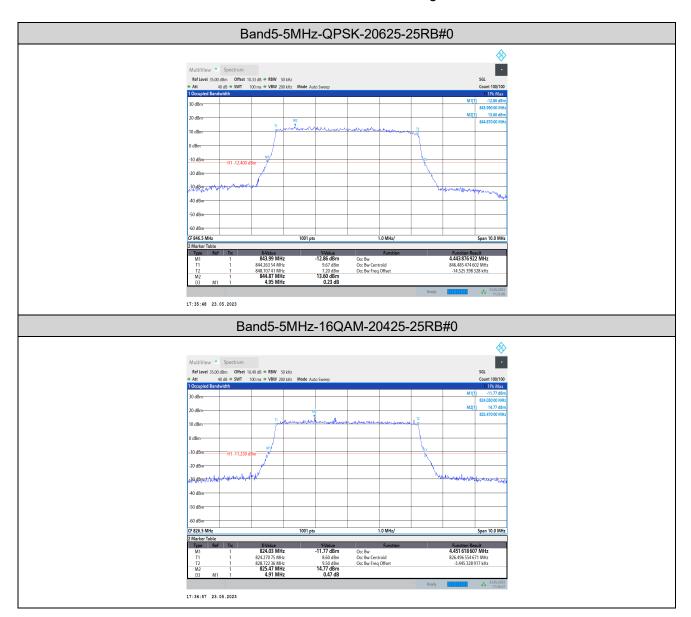
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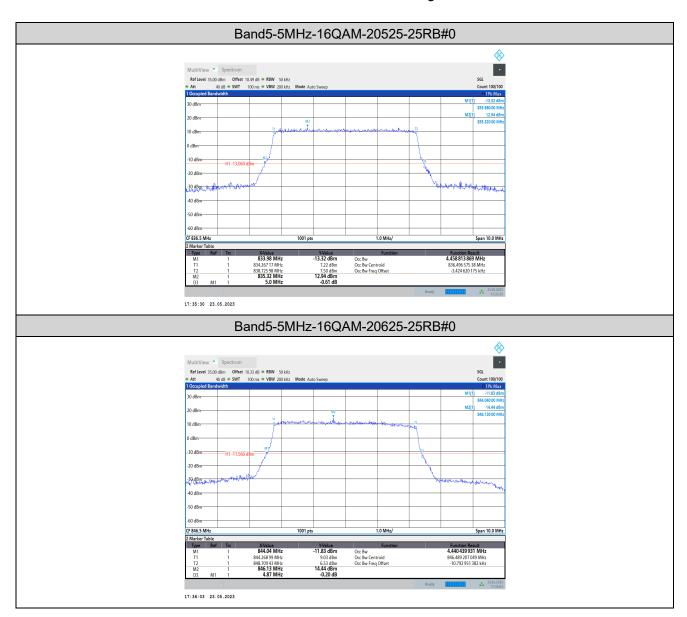
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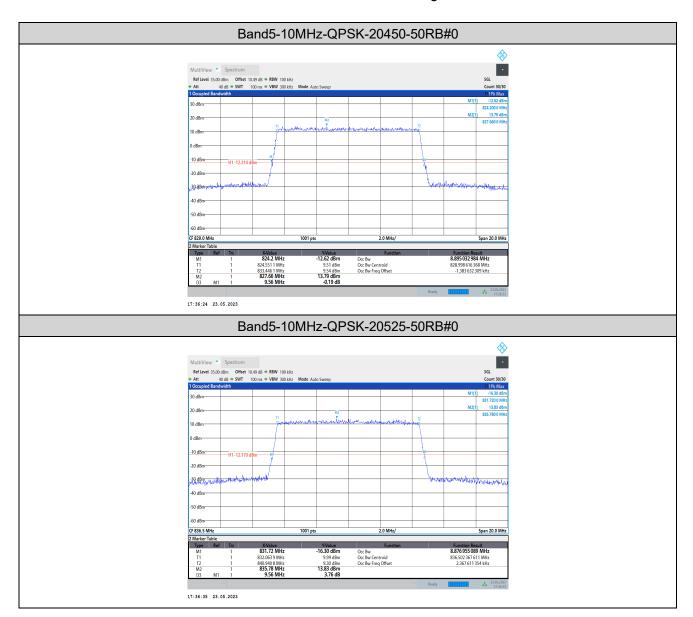
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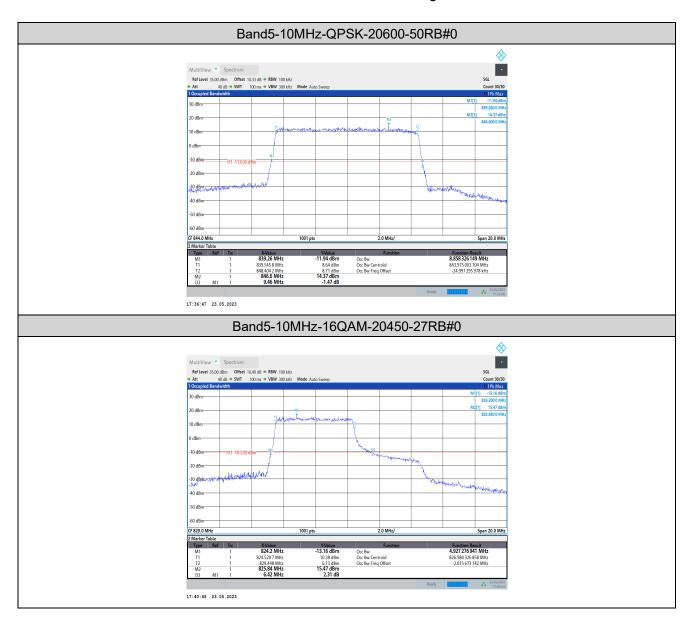
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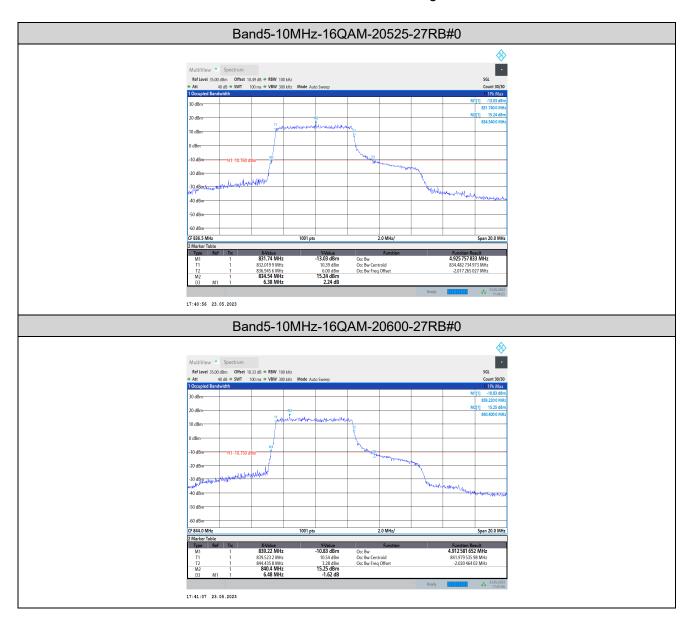
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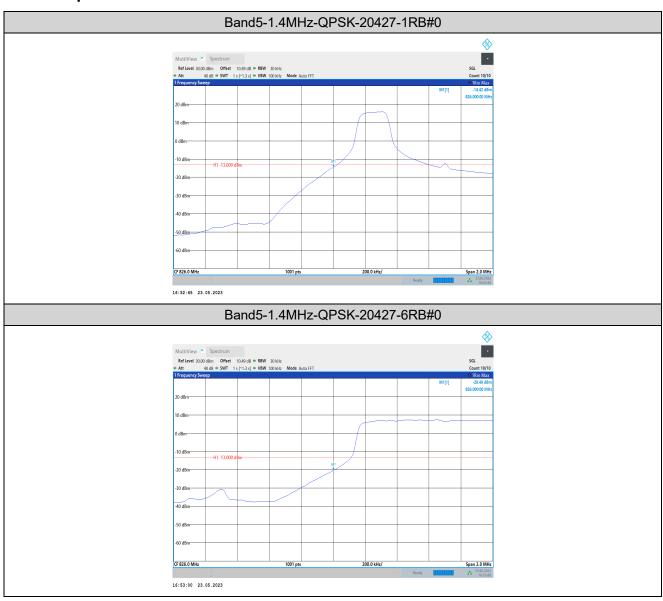
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Band Edge

Test Graphs





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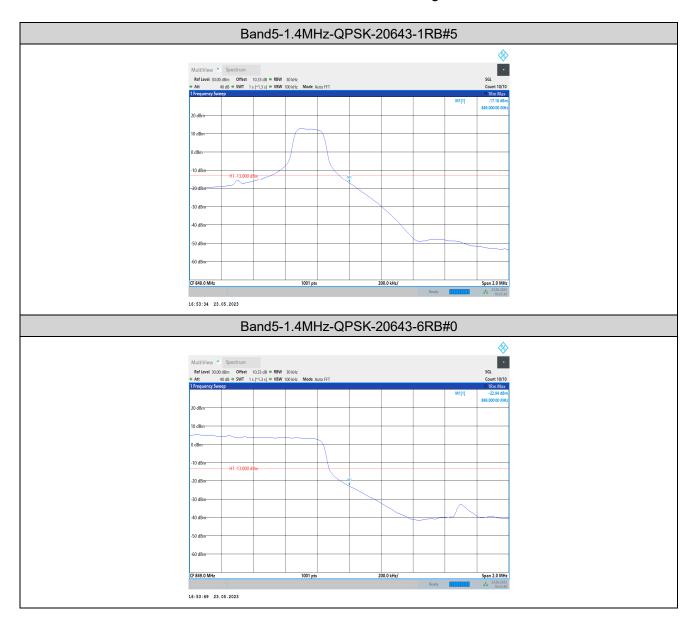
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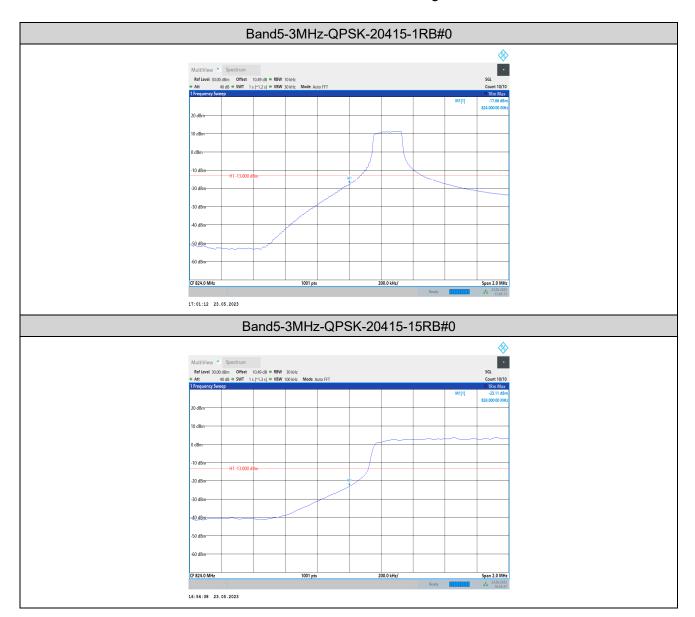
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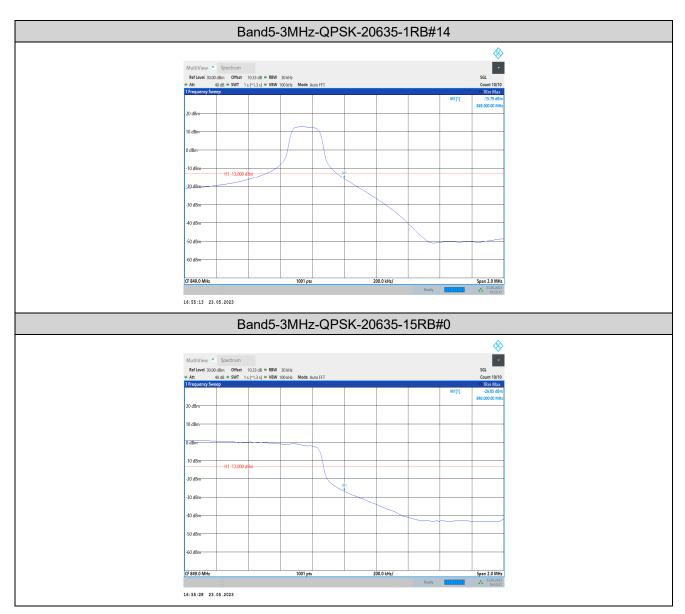
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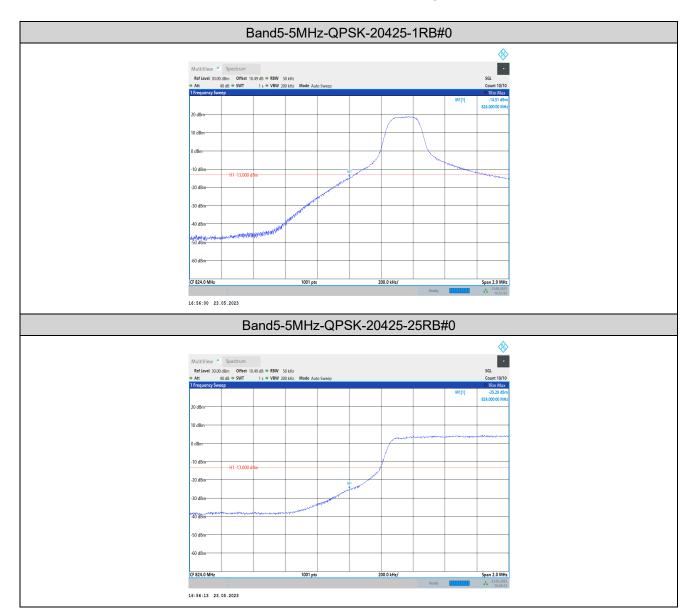
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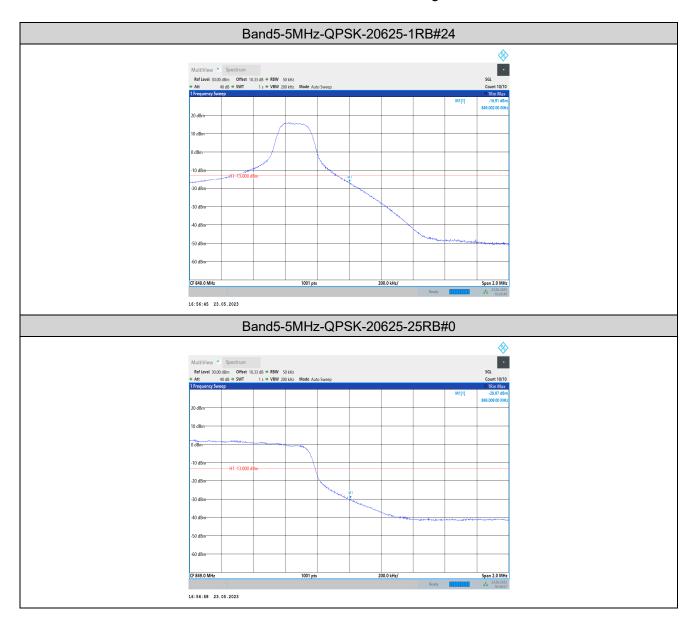
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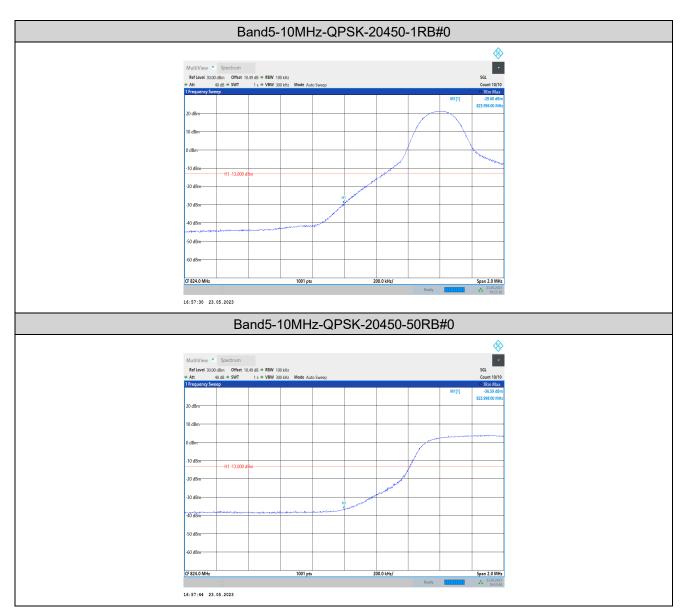
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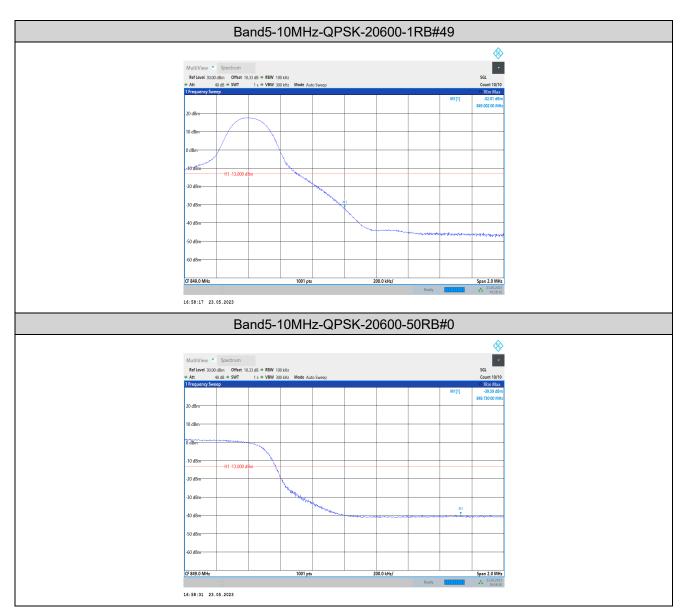
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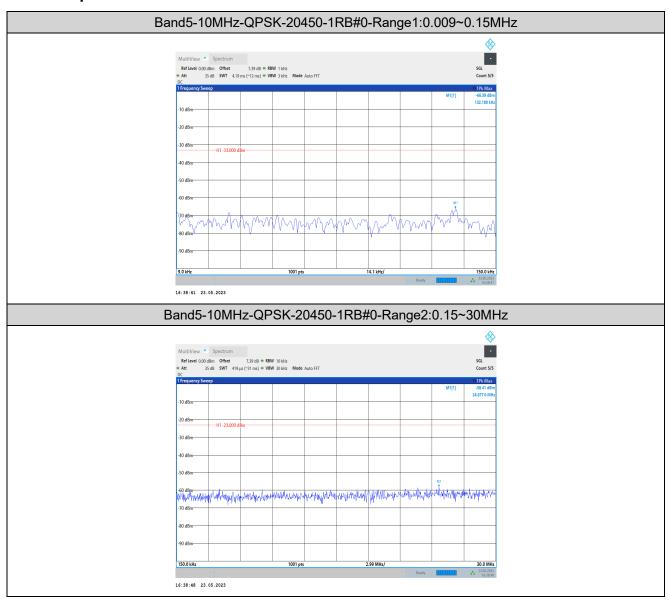
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Conducted Spurious Emission

Test Graphs





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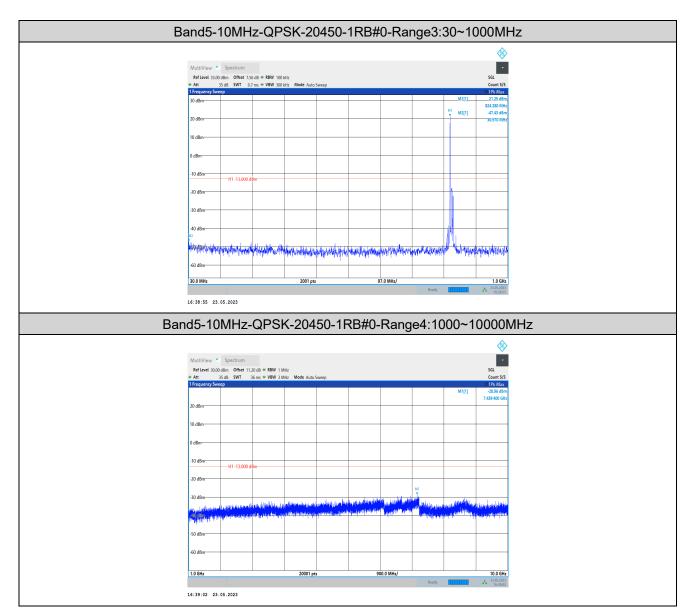
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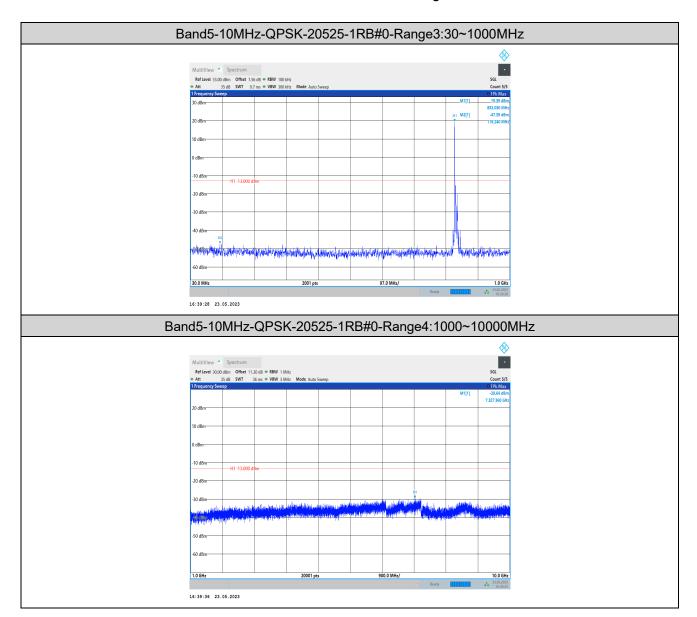
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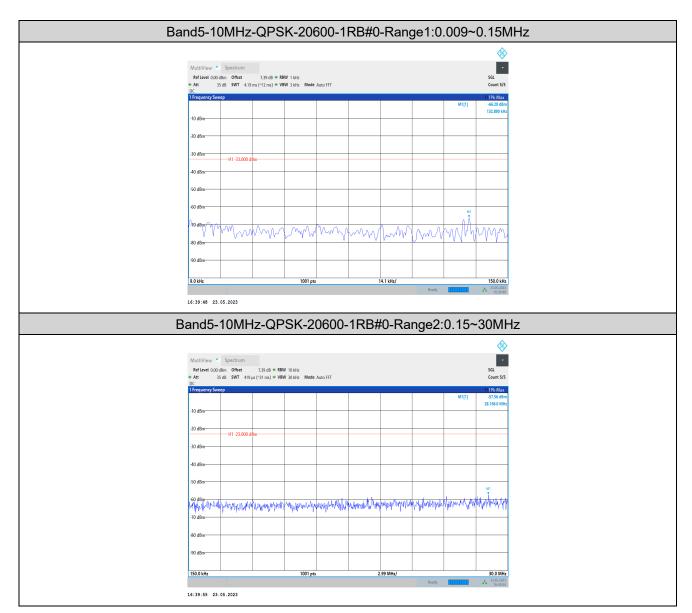
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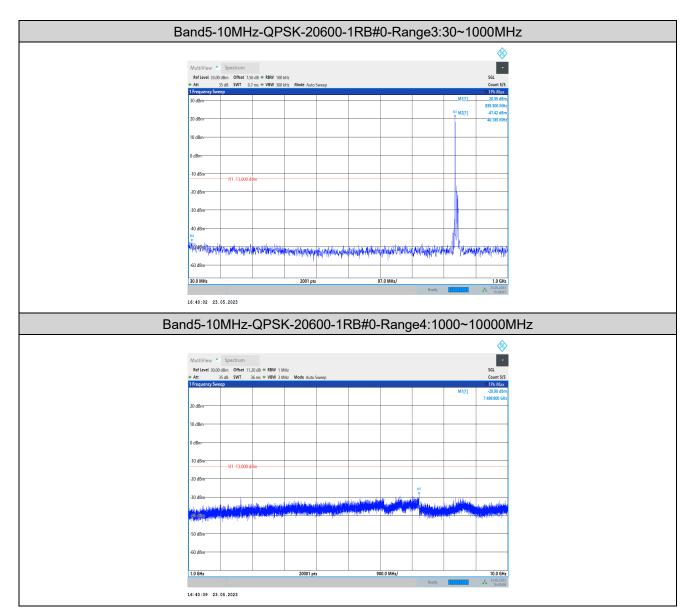
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Field Strength of Spurious Radiation

Test Band = LTE_5 _TM1_10MHz Test Channel = LCH

Final D	Final Data List												
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	AI - [9]	Delegite			
NO.	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity			
1	1649.3312	29.90	-19.02	25.90	-58.48	-13.00	45.48	204	74	Horizontal			
2	3298.2149	66.37	-50.36	30.70	-48.55	-13.00	35.55	188	344	Horizontal			
3	5772.1386	52.41	-45.76	33.99	-54.62	-13.00	41.62	251	177	Horizontal			
4	7421.4211	54.94	-43.88	36.76	-47.44	-13.00	34.44	163	315	Horizontal			
5	8245.7123	57.41	-43.26	37.13	-43.98	-13.00	30.98	332	256	Horizontal			
6	9728.0364	51.84	-41.12	38.76	-45.78	-13.00	32.78	148	294	Horizontal			

Final Data List												
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	AI - [9]	Delenit.		
NO.	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity		
1	1649.0811	31.32	-19.03	25.90	-57.07	-13.00	44.07	263	143	Vertical		
2	3298.2149	57.11	-50.36	30.70	-57.81	-13.00	44.81	266	197	Vertical		
3	4122.8561	59.19	-48.89	30.88	-54.08	-13.00	41.08	333	251	Vertical		
4	7421.7711	52.82	-43.88	36.76	-49.56	-13.00	36.56	289	296	Vertical		
5	8246.0623	59.72	-43.26	37.12	-41.68	-13.00	28.68	369	241	Vertical		
6	9748.3374	53.71	-41.05	38.80	-43.80	-13.00	30.80	210	325	Vertical		



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Test Band = LTE_5 _TM1_10MHz Test Channel = MCH

Final [Final Data List												
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	A 1 F03				
NO.	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity			
1	1664.333	29.01	-18.93	25.87	-59.31	-13.00	46.31	234	85	Horizontal			
2	3328.3164	69.00	-50.06	30.13	-46.19	-13.00	33.19	259	329	Horizontal			
3	3526.0763	56.67	-49.38	29.96	-58.01	-13.00	45.01	332	319	Horizontal			
4	7488.9744	51.60	-43.25	36.62	-50.29	-13.00	37.29	221	324	Horizontal			
5	8320.966	52.77	-43.27	37.37	-48.39	-13.00	35.39	189	300	Horizontal			
6	9848.0924	56.63	-41.23	38.80	-41.06	-13.00	28.06	263	309	Horizontal			

Final [Final Data List												
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	A 1 F03				
NO.	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity			
1	1664.333	23.48	-18.93	25.87	-64.84	-13.00	51.84	348	71	Vertical			
2	3328.3164	65.89	-50.06	30.13	-49.30	-13.00	36.30	189	245	Vertical			
3	5824.6412	51.76	-45.67	34.10	-55.07	-13.00	42.07	226	22	Vertical			
4	7488.9744	51.01	-43.25	36.62	-50.88	-13.00	37.88	321	235	Vertical			
5	8321.3161	52.85	-43.27	37.37	-48.31	-13.00	35.31	149	22	Vertical			
6	9848.0924	57.07	-41.23	38.80	-40.62	-13.00	27.62	224	320	Vertical			



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Test Band = LTE_5 _TM1_10MHz Test Channel = HCH

Final [Final Data List												
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	A 1 F03				
NO.	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity			
1	1679.0849	26.12	-18.84	25.84	-62.14	-13.00	49.14	163	88	Horizontal			
2	2518.6898	34.49	-17.91	28.11	-50.57	-13.00	37.57	254	330	Horizontal			
3	3358.4179	78.93	-49.89	29.72	-36.50	-13.00	23.50	336	2	Horizontal			
4	6716.4858	51.72	-44.64	35.93	-52.25	-13.00	39.25	325	200	Horizontal			
5	7556.5278	53.16	-43.95	36.79	-49.26	-13.00	36.26	389	161	Horizontal			
6	8395.8698	53.46	-43.05	37.57	-47.28	-13.00	34.28	210	224	Horizontal			

Final Data List										
NO.	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height		D-Iit.
	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity
1	1679.3349	28.22	-18.84	25.84	-60.04	-13.00	47.04	269	262	Vertical
2	2518.6898	34.83	-17.91	28.11	-50.23	-13.00	37.23	332	309	Vertical
3	3358.4179	76.33	-49.89	29.72	-39.10	-13.00	26.10	202	246	Vertical
4	5877.1439	52.92	-45.70	34.21	-53.83	-13.00	40.83	321	39	Vertical
5	7556.5278	52.85	-43.95	36.79	-49.57	-13.00	36.57	259	98	Vertical
6	8396.2198	54.95	-43.05	37.57	-45.79	-13.00	32.79	331	98	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

Voltage										
Band	Band width	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-7.58	-0.009062	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-7.34	-0.008775	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-7.75	-0.009265	±2.5	PASS

Temperature										
Band	Band width	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-8.20	-0.009803	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-9.77	-0.011680	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-9.93	-0.011871	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-8.30	-0.009922	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-7.98	-0.009540	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-7.67	-0.009169	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-7.41	-0.008858	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-7.52	-0.008990	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-7.94	-0.009492	±2.5	PASS

---End of Attachment---



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