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Appendix B.11

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.58	26.58	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.64	26.64	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.68	26.68	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.75	25.75	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.03	27.03	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.08	27.08	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.01	27.01	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.3	26.3	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.49	26.49	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.64	26.64	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.6	26.6	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.79	25.79	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	20.81	24.81	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.05	25.05	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	20.92	24.92	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.02	25.02	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.35	25.35	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.36	25.36	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.3	25.3	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.19	25.19	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.03	25.03	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.08	25.08	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	20.79	24.79	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.82	24.82	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.62	26.62	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.75	26.75	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.59	26.59	33	PASS



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Band41	10MHz	QPSK	39700	50RB#0	21.85	25.85	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.05	27.05	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.24	27.24	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.05	27.05	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.31	26.31	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.74	26.74	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.64	26.64	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.53	26.53	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.89	25.89	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	20.93	24.93	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	20.96	24.96	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	20.8	24.8	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.92	24.92	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.44	25.44	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.48	25.48	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.53	25.53	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.08	25.08	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.17	25.17	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	20.96	24.96	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.04	25.04	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.92	24.92	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.56	26.56	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.49	26.49	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.64	26.64	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.58	25.58	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.03	27.03	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.1	27.1	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.06	27.06	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.24	26.24	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.73	26.73	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.67	26.67	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.53	26.53	33	PASS



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Band41	15MHz	QPSK	41515	75RB#0	21.9	25.9	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	20.88	24.88	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	20.72	24.72	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	20.84	24.84	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.64	24.64	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.26	25.26	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.35	25.35	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.45	25.45	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.18	25.18	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.06	25.06	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.06	25.06	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	20.94	24.94	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.87	24.87	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.43	26.43	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.78	26.78	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.39	26.39	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.53	25.53	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.88	26.88	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.33	27.33	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.09	27.09	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.24	26.24	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.69	26.69	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.86	26.86	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.46	26.46	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.86	25.86	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	20.82	24.82	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	20.83	24.83	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	20.61	24.61	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.6	24.6	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.33	25.33	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.49	25.49	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.4	25.4	33	PASS



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Band41	20MHz	16QAM	40620	100RB#0	21.19	25.19	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.16	25.16	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.04	25.04	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	20.78	24.78	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.86	24.86	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	8.54	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.40	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.68	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.34	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.24	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.42	13	PASS



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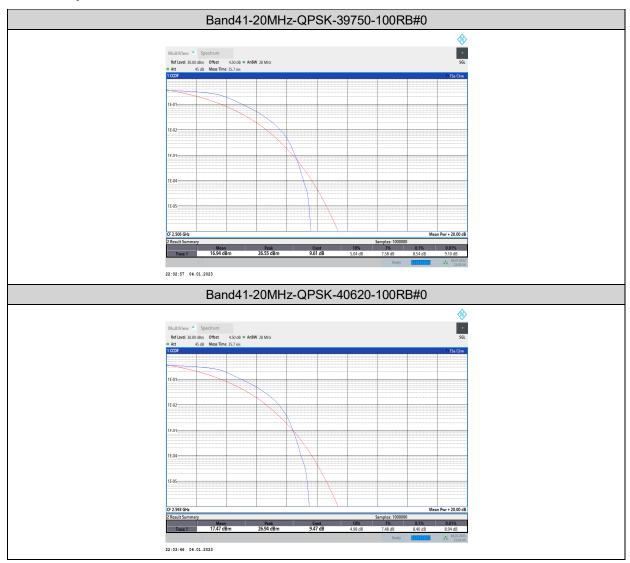
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Test Graphs





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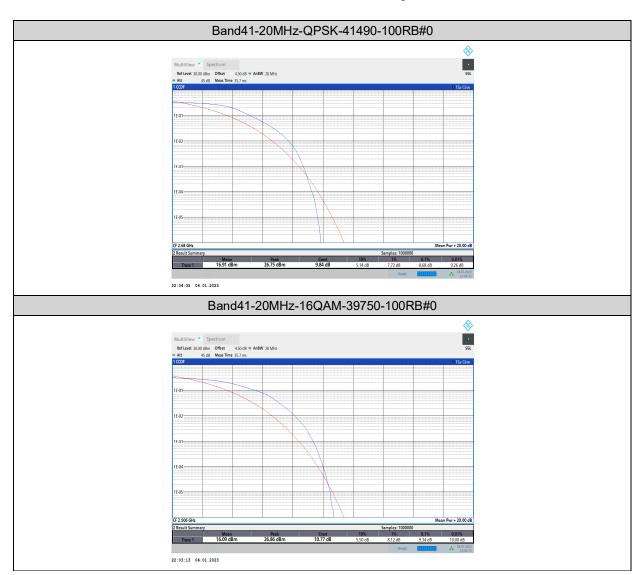
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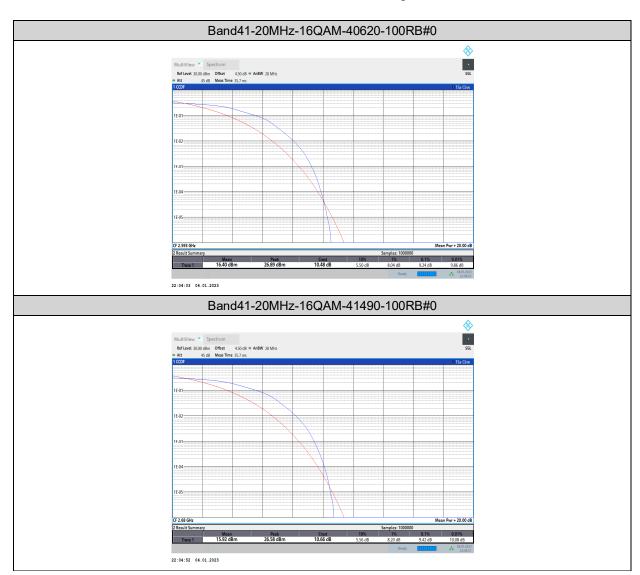
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS



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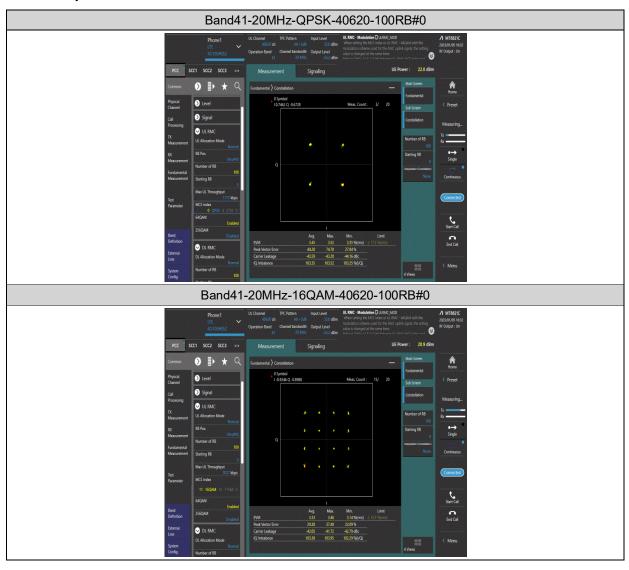


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Test Graphs





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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.472	4.85	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.47	4.82	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.469	4.84	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.464	4.88	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.463	4.91	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.461	4.90	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.912	9.74	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.909	9.76	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.914	9.74	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.903	9.80	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.904	9.78	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.906	9.78	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.45	15.72	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.454	16.05	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.473	15.42	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.414	14.73	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.421	14.79	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.411	15.18	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.863	19.36	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.872	19.32	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.869	19.40	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.811	19.68	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.838	19.76	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.809	20.08	PASS



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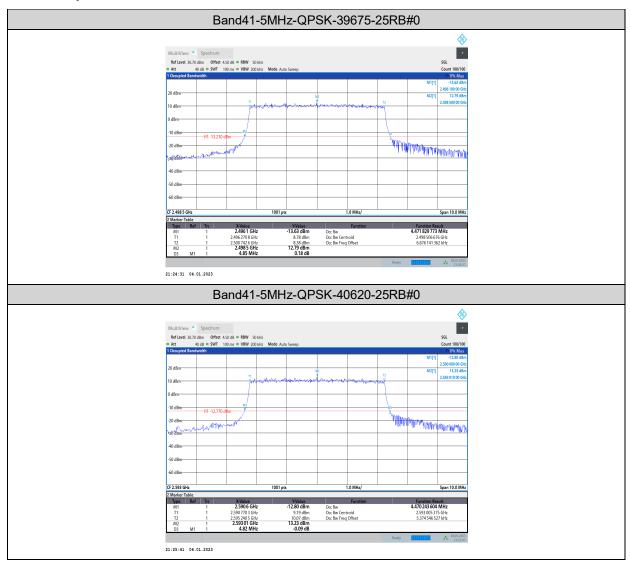


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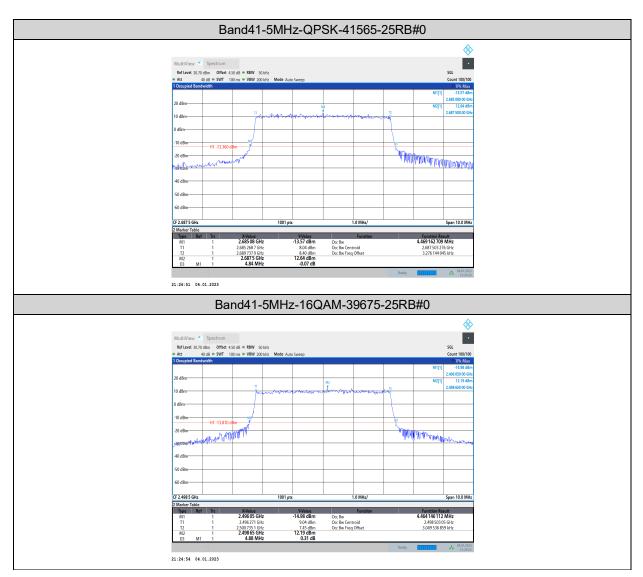
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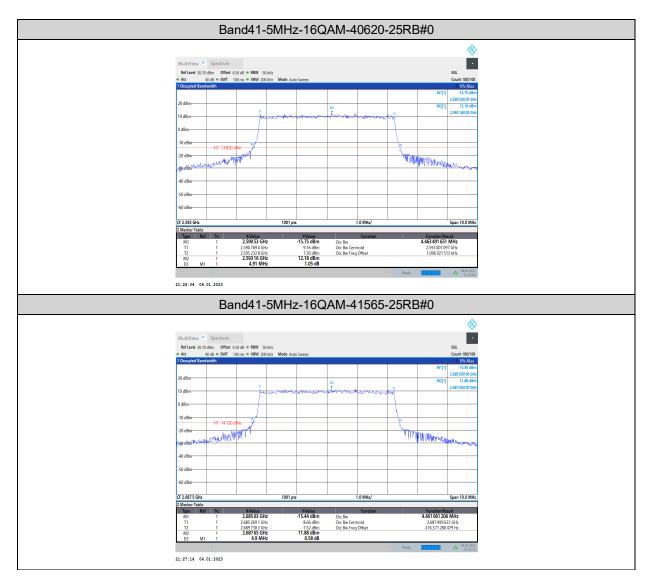
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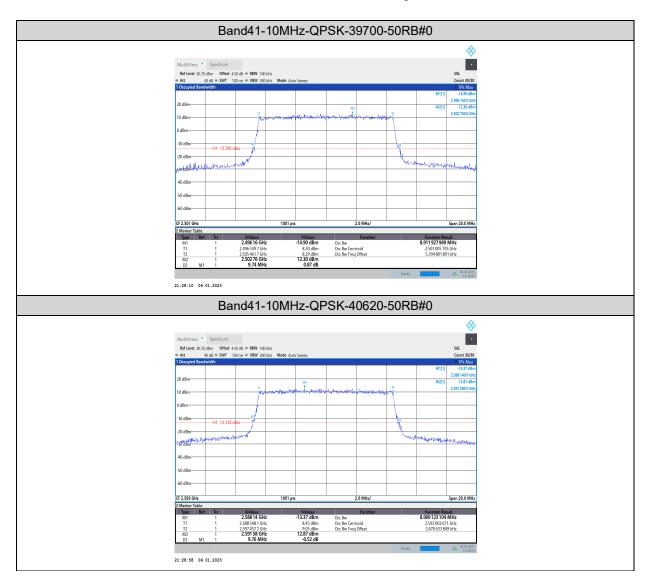
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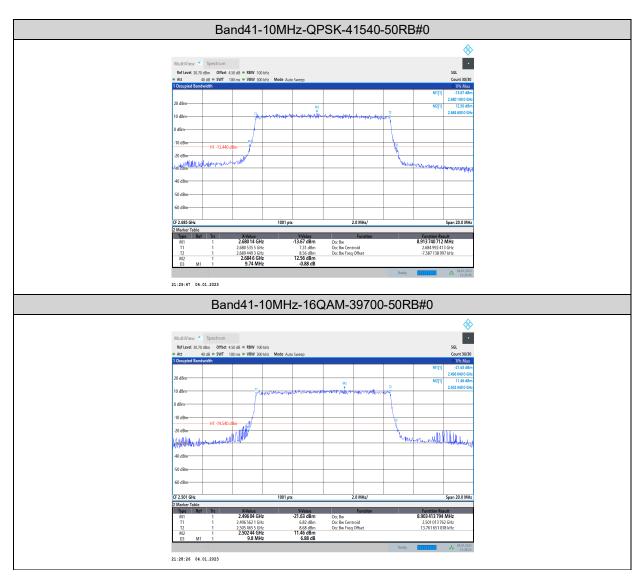
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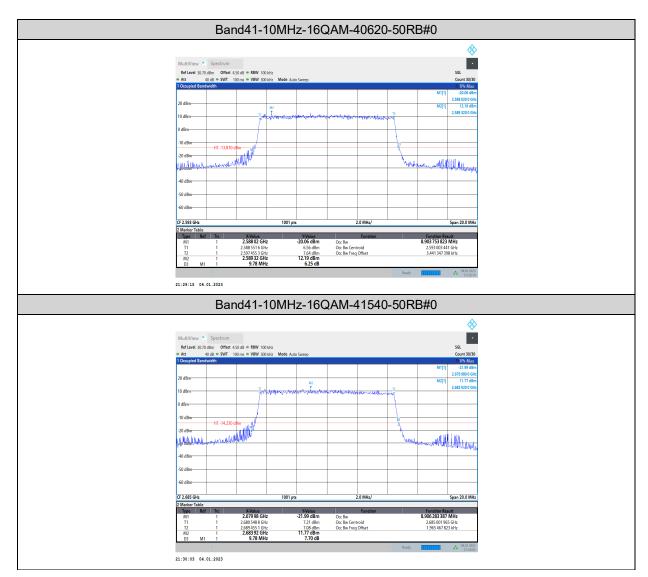
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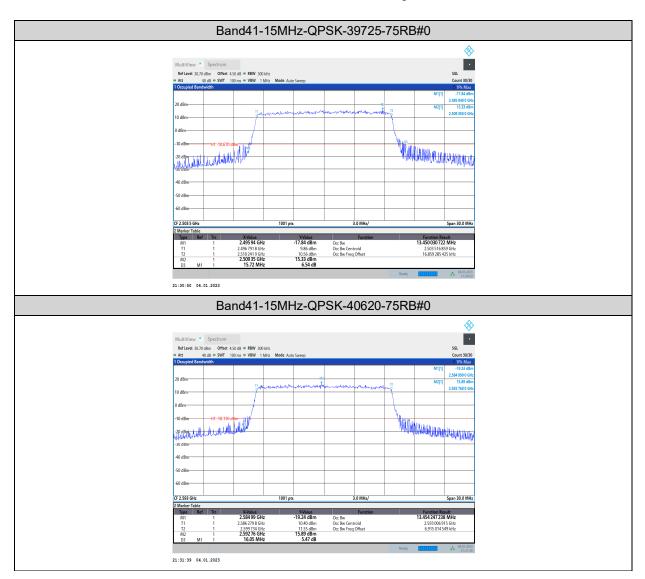
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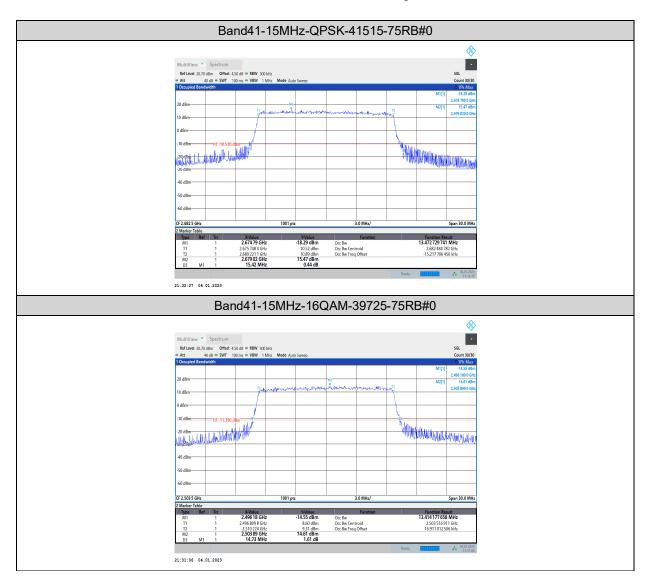
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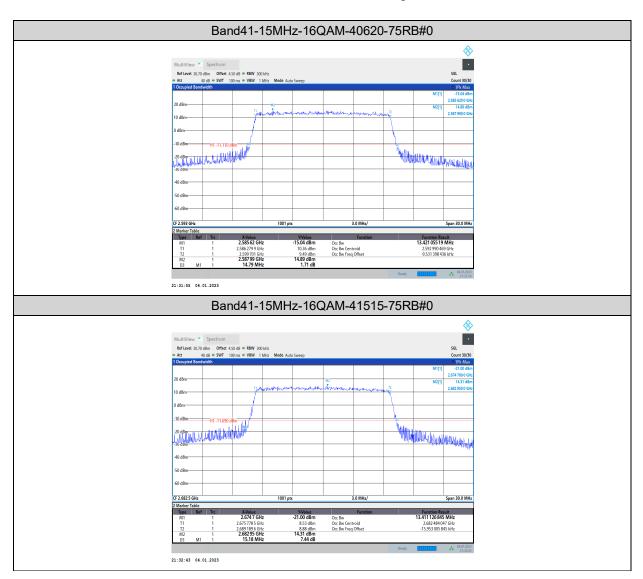
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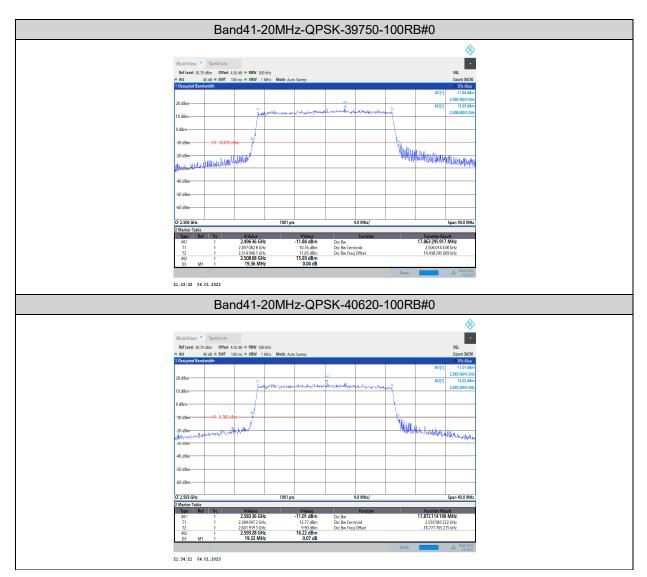
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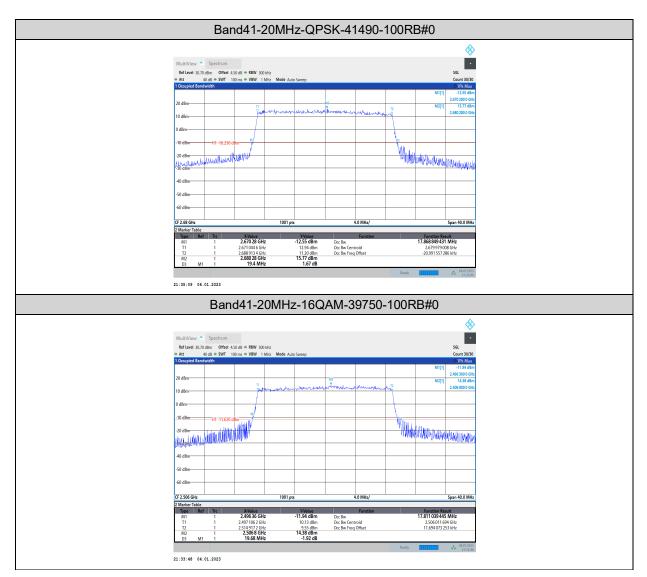
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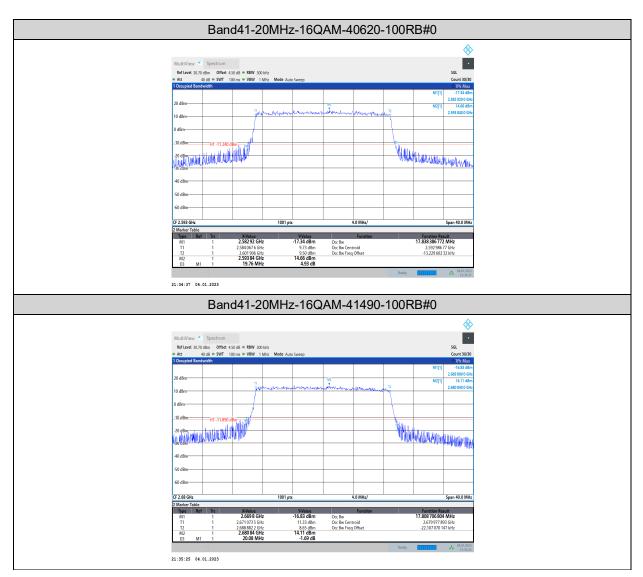
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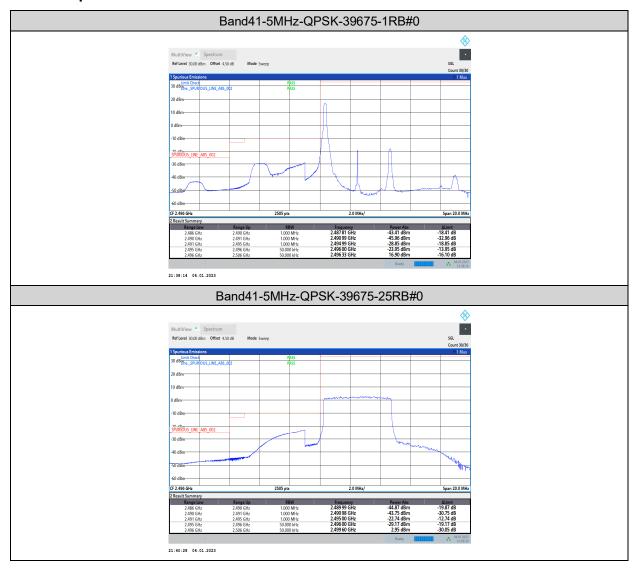
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Band Edge

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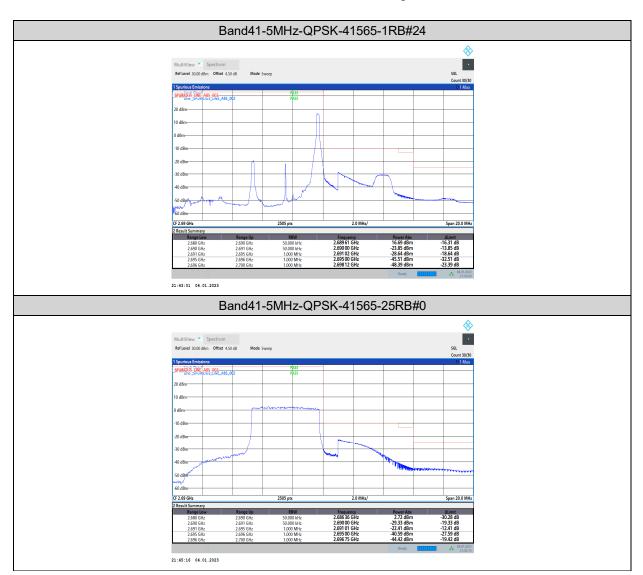
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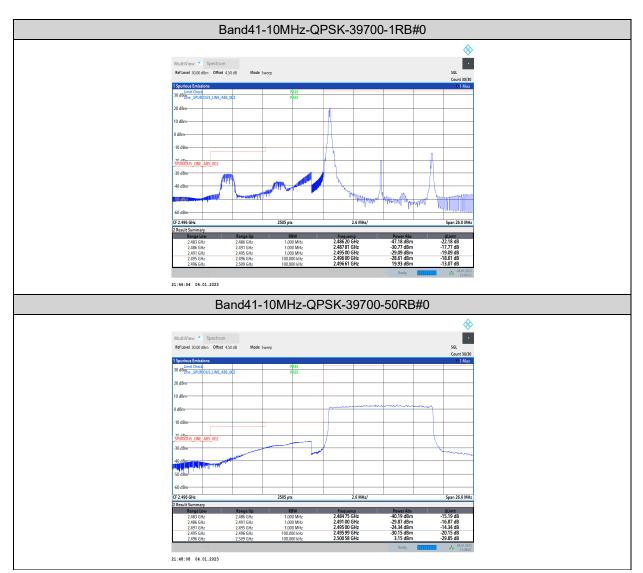
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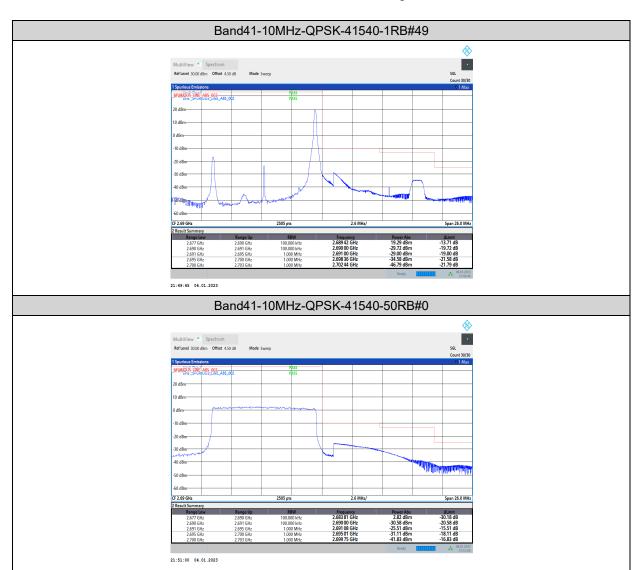
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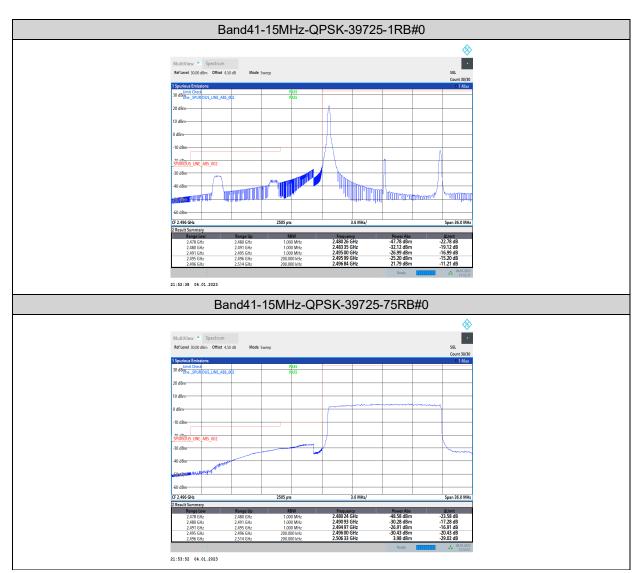
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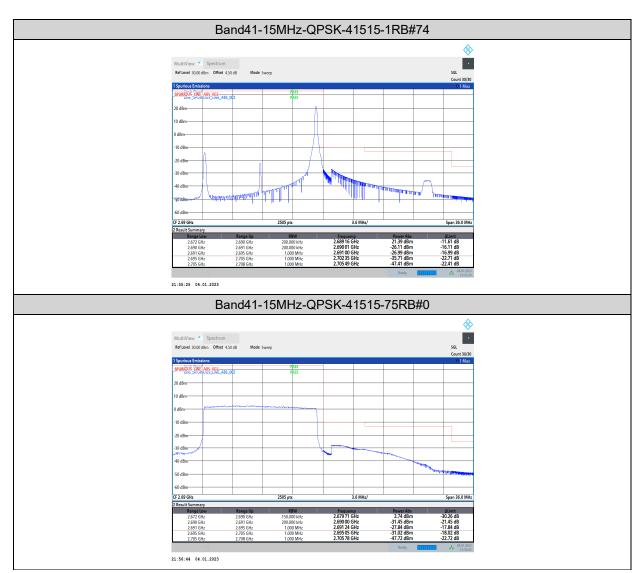
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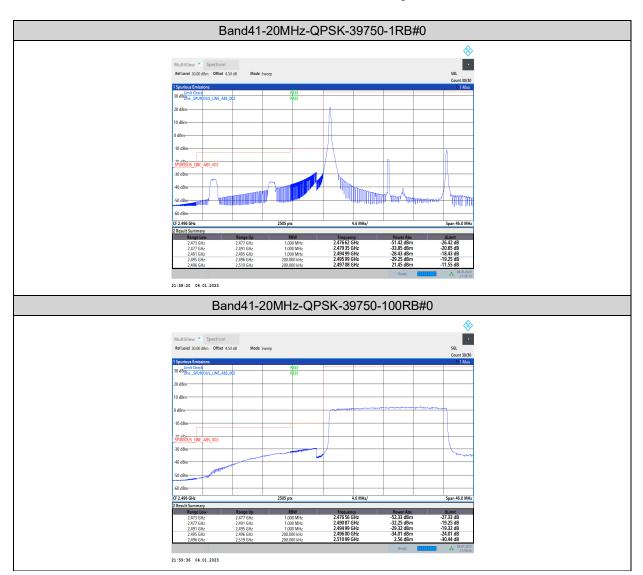
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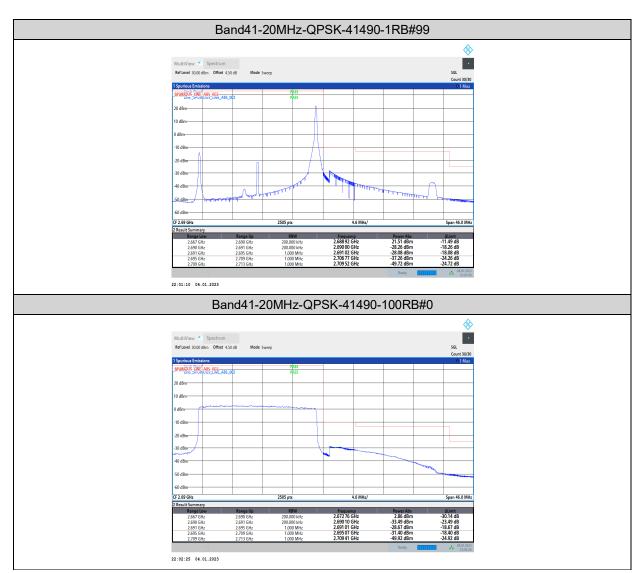
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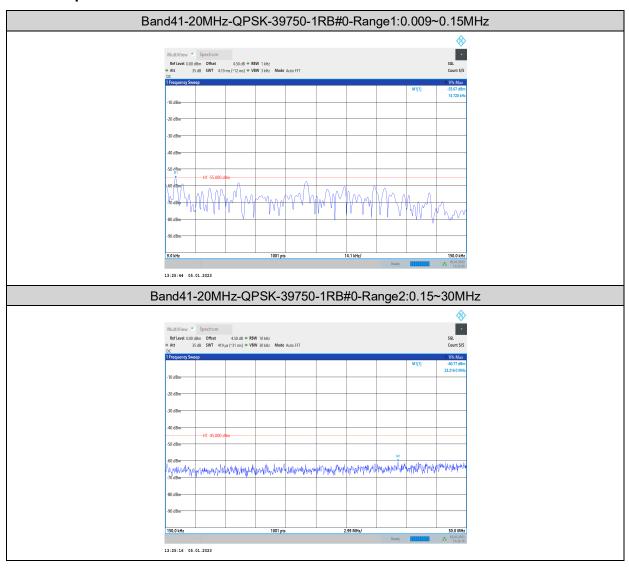
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Conducted Spurious Emission

Test Graphs





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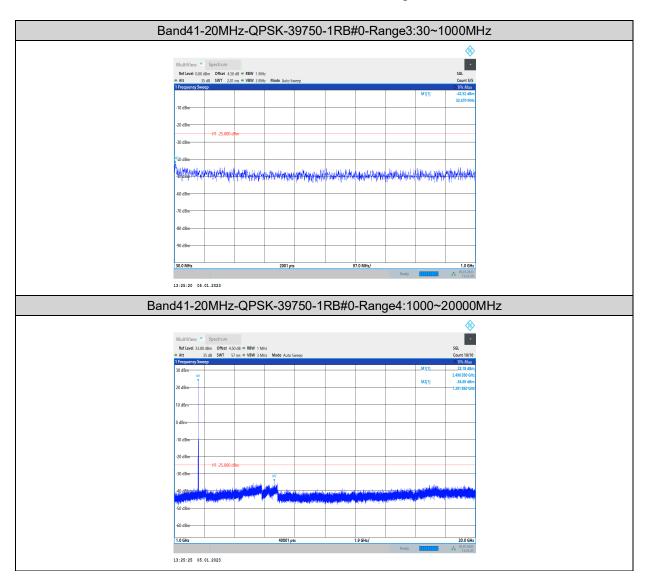
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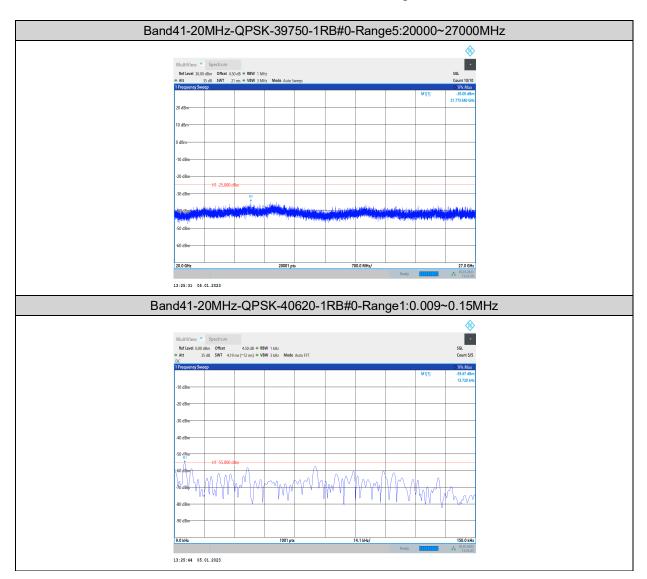
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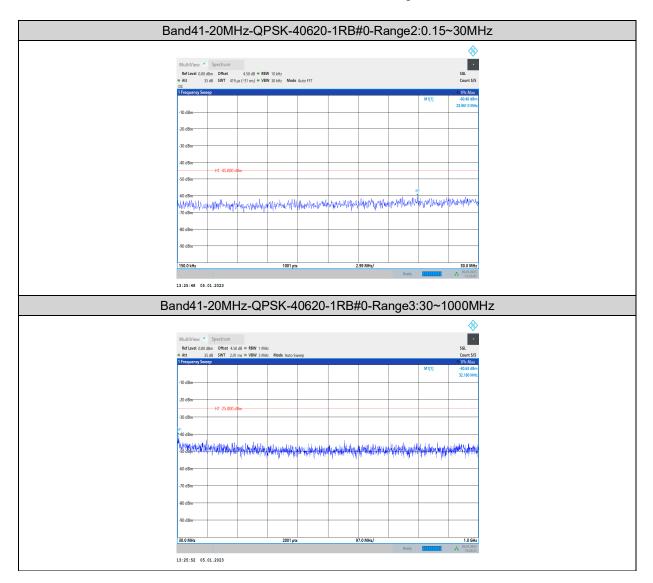
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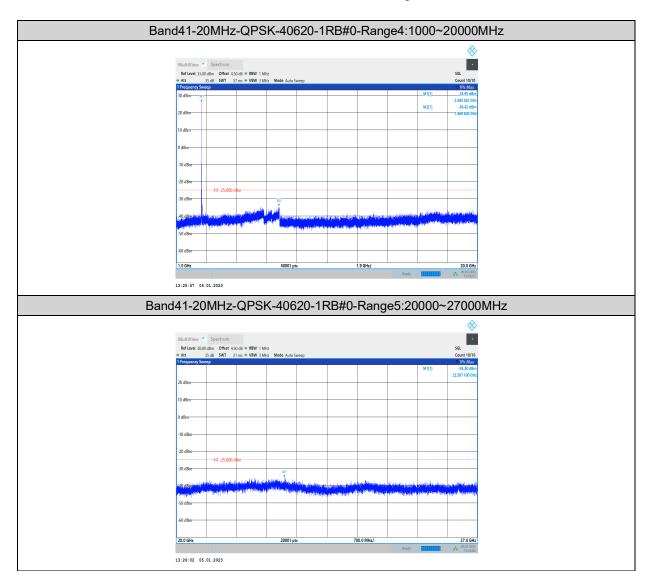
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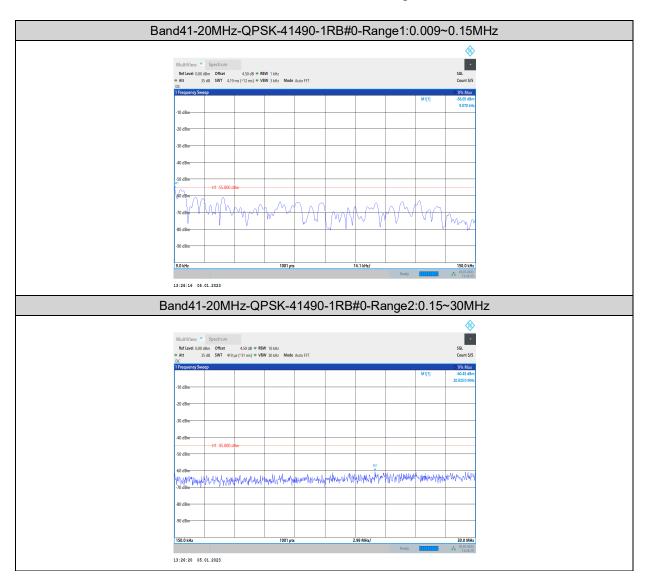
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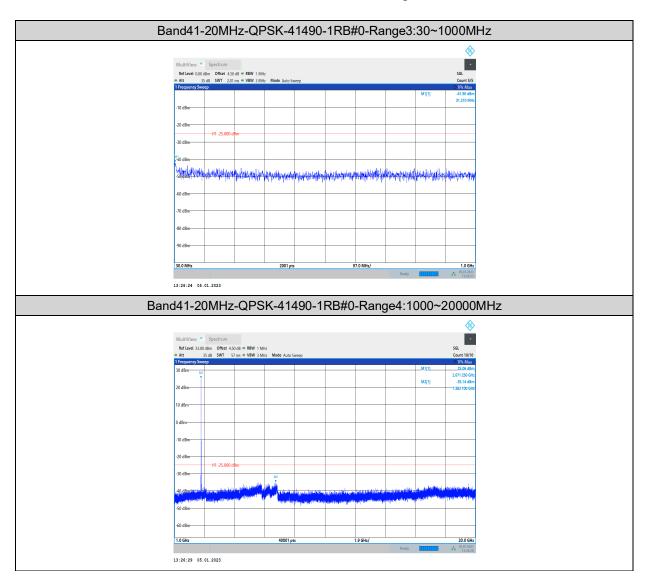
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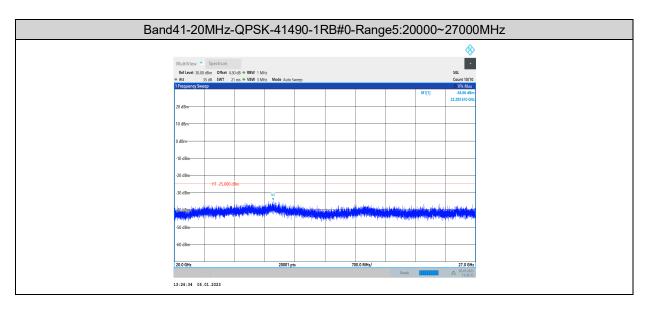
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Field Strength of Spurious Radiation

Test Band = LTE Band41_ TM1
Test Channel = Low

Final	Final Data List											
NO	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Dalanita		
NO.	[MHz]	[dBµV]	[dB]	Ai [db/iii]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	4994.1800	40.48	-45.63	32.86	-67.55	-25.00	42.55	263	357	Horizontal		
2	7491.2700	39.55	-43.16	36.44	-62.43	-25.00	37.43	215	240	Horizontal		
3	9988.3600	35.98	-39.25	38.47	-60.06	-25.00	35.06	148	73	Horizontal		
4	12485.4500	34.99	-37.04	39.16	-58.15	-25.00	33.15	198	270	Horizontal		
5	14982.5400	34.50	-34.64	39.26	-56.14	-25.00	31.14	175	331	Horizontal		
6	17479.6300	34.12	-35.10	39.13	-57.11	-25.00	32.11	142	270	Horizontal		

Final	Final Data List											
NO	Frequency	Reading	Factor	V [[4D/***]	Level	Limit	Margin	Height	Angle	Dalavitu		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	4994.1800	41.46	-45.63	32.86	-66.57	-25.00	41.57	174	2	Vertical		
2	7491.2700	39.51	-43.16	36.44	-62.47	-25.00	37.47	155	256	Vertical		
3	9988.3600	36.46	-39.25	38.47	-59.58	-25.00	34.58	126	15	Vertical		
4	12485.4500	34.70	-37.04	39.16	-58.44	-25.00	33.44	135	236	Vertical		
5	14982.5400	34.90	-34.64	39.26	-55.74	-25.00	30.74	188	16	Vertical		
6	17479.6300	34.47	-35.10	39.13	-56.76	-25.00	31.76	192	225	Vertical		



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Test Band = LTE Band41_ TM1 Test Channel = Mid

Fina	Final Data List											
NO	Frequency	Reading	Factor	A E [D /]	Level	Limit	Margin	Height	Angle	Delegite		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	3995.25	43.09	-46.05	30.79	-67.43	-25.00	42.43	147	346	Horizontal		
2	5168.1800	40.56	-45.31	32.97	-67.04	-25.00	42.04	126	356	Horizontal		
3	7752.2700	40.11	-42.69	36.69	-61.15	-25.00	36.15	159	3	Horizontal		
4	10336.3600	35.58	-39.06	38.84	-59.90	-25.00	34.90	194	0	Horizontal		
5	12920.4500	34.30	-37.16	39.75	-58.37	-25.00	33.37	172	7	Horizontal		
6	15504.5400	34.30	-35.35	38.57	-57.74	-25.00	32.74	180	225	Horizontal		

Final Data List											
NO	Frequency	Reading	Factor	V [[4D/**]	Level	Limit	Margin	Height	Angle	Polarity	
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Folality	
1	3782.25	42.71	-45.85	30.27	-68.13	-25.00	43.13	248	209	Vertical	
2	5168.1800	40.85	-45.31	32.97	-66.75	-25.00	41.75	175	73	Vertical	
3	7752.2700	39.40	-42.69	36.69	-61.86	-25.00	36.86	302	268	Vertical	
4	10336.3600	36.05	-39.06	38.84	-59.43	-25.00	34.43	266	133	Vertical	
5	12920.4500	34.64	-37.16	39.75	-58.03	-25.00	33.03	312	224	Vertical	
6	15504.5400	34.50	-35.35	38.57	-57.54	-25.00	32.54	175	104	Vertical	



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t (86-512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980 sgs.china@sgs.com



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Test Band = LTE Band41_ TM1 Test Channel = High

Final	Final Data List											
NO.	Frequency	Reading	Factor	V [[4D/***]	Level	Limit	Margin	Height	Angle	Delevite		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	3492	43.06	-46.26	29.51	-68.95	-25.00	43.95	145	135	Horizontal		
2	5342.1800	39.83	-45.18	32.85	-67.75	-25.00	42.75	186	7	Horizontal		
3	8013.2700	38.44	-42.21	37.01	-62.02	-25.00	37.02	259	16	Horizontal		
4	10684.3600	34.34	-37.97	39.13	-59.76	-25.00	34.76	291	251	Horizontal		
5	13355.4500	34.06	-36.56	40.10	-57.66	-25.00	32.66	142	15	Horizontal		
6	16026.5400	35.12	-34.85	37.83	-57.17	-25.00	32.17	173	59	Horizontal		

Final Data List											
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity	
	[MHz]	[dBµV]	[dB]	Ar[db/III]	[dBm]	[dBm]	[dB]	[cm]	[°]		
1	3697.5	42.51	-45.52	29.96	-68.30	-25.00	43.30	333	210	Vertical	
2	5342.1800	39.58	-45.18	32.85	-68.00	-25.00	43.00	201	287	Vertical	
3	8013.2700	38.79	-42.21	37.01	-61.67	-25.00	36.67	198	332	Vertical	
4	10684.3600	34.65	-37.97	39.13	-59.45	-25.00	34.45	291	301	Vertical	
5	13355.4500	33.70	-36.56	40.10	-58.02	-25.00	33.02	145	90	Vertical	
6	16026.5400	35.73	-34.85	37.83	-56.56	-25.00	31.56	126	75	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
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-0.20	-0.000077	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	0.60	0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	0.80	0.000309	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	1.50	0.000578	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-2.80	-0.001080	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-3.50	-0.001350	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-3.90	-0.001504	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-0.10	-0.000039	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	0.40	0.000154	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	0.80	0.000309	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	0.70	0.000270	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-0.50	-0.000193	PASS

---End of Attachment---



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