

Appendix B.4

LTE Band 12



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant0 (Antenna Gain: -3.4dBi)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.45	17.9	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.59	18.04	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.40	17.85	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.63	17.08	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.39	17.84	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.47	17.92	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.37	17.82	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.44	16.89	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.47	17.92	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.40	17.85	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.37	17.82	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.41	16.86	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.85	17.3	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.86	17.31	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.96	17.41	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.62	16.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.71	17.16	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.78	17.23	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.76	17.21	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.59	16.04	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.69	17.14	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.98	17.43	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.97	17.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.55	16	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.74	16.19	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.68	16.13	34.77	PASS



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

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Band12	1.4MHz	64QAM	23017	1RB#5	21.57	16.02	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.57	15.02	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.73	16.18	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.77	16.22	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.69	16.14	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.57	15.02	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.65	16.1	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.75	16.2	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.64	16.09	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.45	14.9	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.54	17.99	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.51	17.96	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.37	17.82	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.58	17.03	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.49	17.94	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.47	17.92	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.36	17.81	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.53	16.98	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.52	17.97	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.54	17.99	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.38	17.83	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.53	16.98	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.93	17.38	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.01	17.46	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.78	17.23	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.68	16.13	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.85	17.3	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.94	17.39	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.76	17.21	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.55	16	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.75	17.2	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.01	17.46	34.77	PASS



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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



Band12	3MHz	16QAM	23165	1RB#14	22.87	17.32	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.52	15.97	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.88	16.33	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.75	16.2	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.70	16.15	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.62	15.07	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.53	15.98	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.86	16.31	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.97	16.42	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.52	14.97	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.73	16.18	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.70	16.15	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.71	16.16	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.49	14.94	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.53	17.98	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.52	17.97	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.33	17.78	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.62	17.07	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.42	17.87	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.48	17.93	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.37	17.82	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.54	16.99	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.63	18.08	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.47	17.92	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.49	17.94	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.49	16.94	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.01	17.46	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.88	17.33	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.76	17.21	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.59	16.04	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.74	17.19	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.01	17.46	34.77	PASS



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



Band12	5MHz	16QAM	23095	1RB#24	22.78	17.23	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.60	16.05	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.87	17.32	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.01	17.46	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.80	17.25	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.54	15.99	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.79	16.24	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.78	16.23	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.75	16.2	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.65	15.1	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.61	16.06	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.79	16.24	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.75	16.2	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.54	14.99	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.60	16.05	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.75	16.2	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.77	16.22	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.50	14.95	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.52	17.97	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.47	17.92	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.44	17.89	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.57	17.02	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.53	17.98	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.41	17.86	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.43	17.88	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.56	17.01	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.51	17.96	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.50	17.95	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.30	17.75	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.63	17.08	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.98	17.43	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.88	17.33	34.77	PASS



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Band12	10MHz	16QAM	23060	1RB#49	23.01	17.46	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.68	16.13	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.75	17.2	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.88	17.33	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.96	17.41	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.54	15.99	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.92	17.37	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.90	17.35	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.67	17.12	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.62	16.07	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.88	16.33	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.89	16.34	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.79	16.24	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.57	15.02	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.78	16.23	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.79	16.24	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.77	16.22	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.59	15.04	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.77	16.22	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.70	16.15	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.75	16.2	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.60	15.05	34.77	PASS



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.40	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.64	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.66	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.28	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.50	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.46	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.72	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.88	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.82	13	PASS



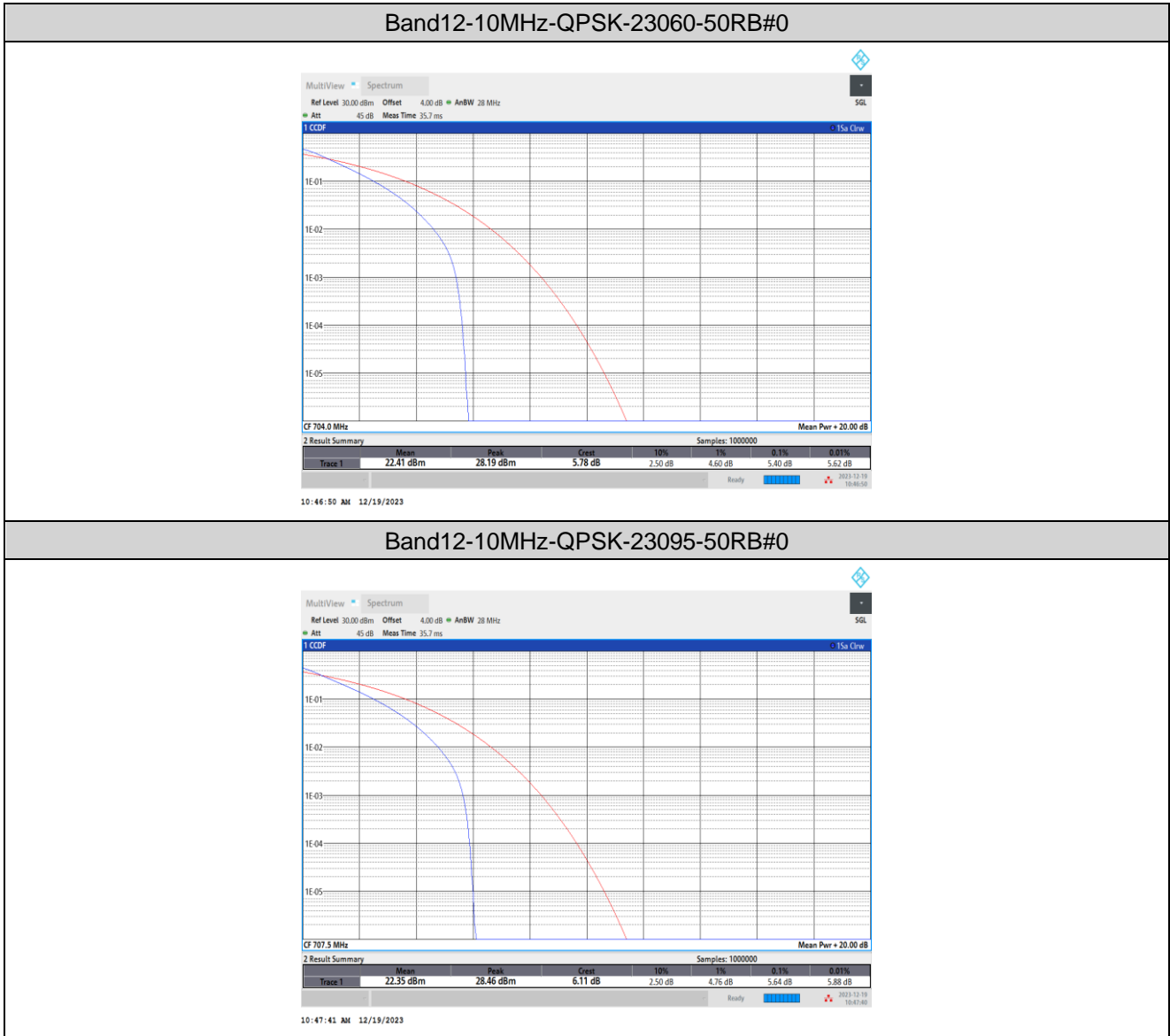
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Test Graphs

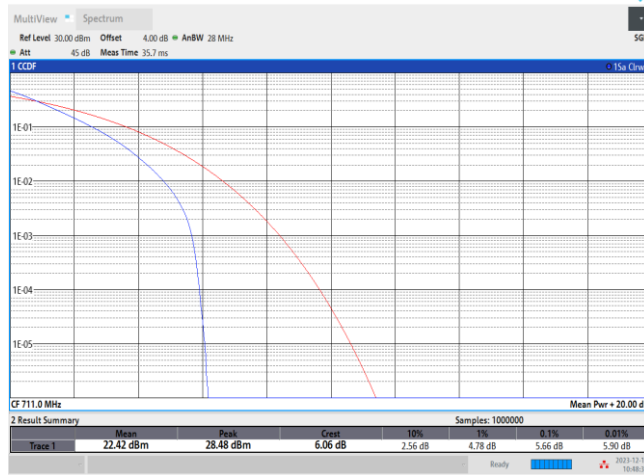


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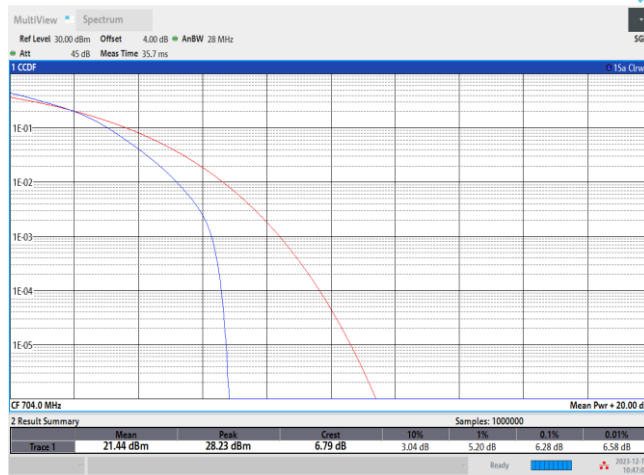
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Band12-10MHz-QPSK-23130-50RB#0



10:48:31 AM 12/19/2023

Band12-10MHz-16QAM-23060-50RB#0



10:47:07 AM 12/19/2023

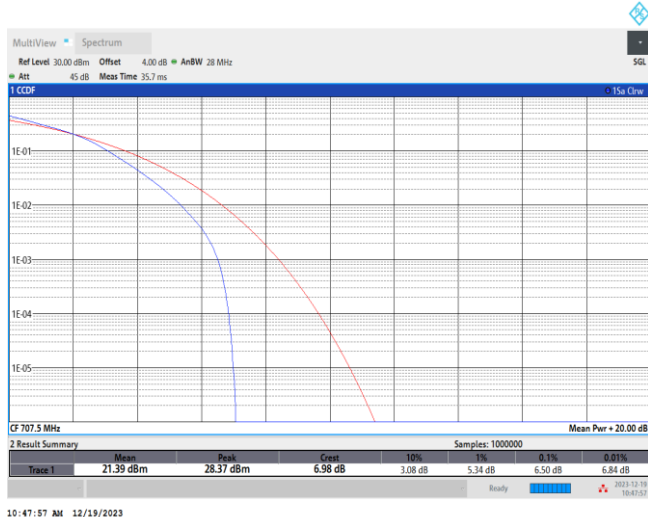


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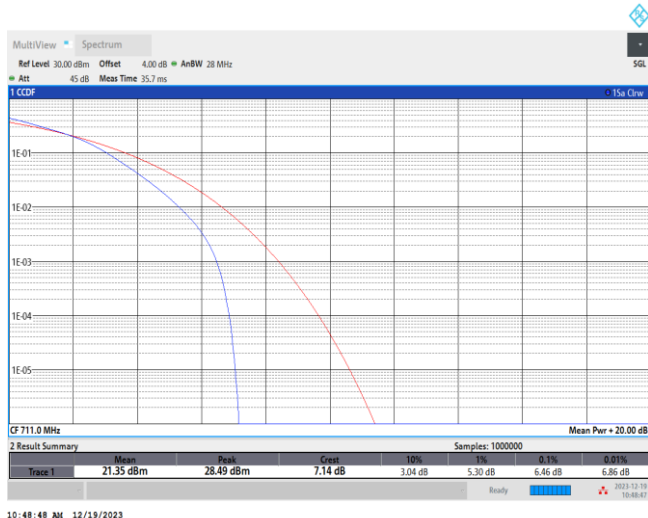
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Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0

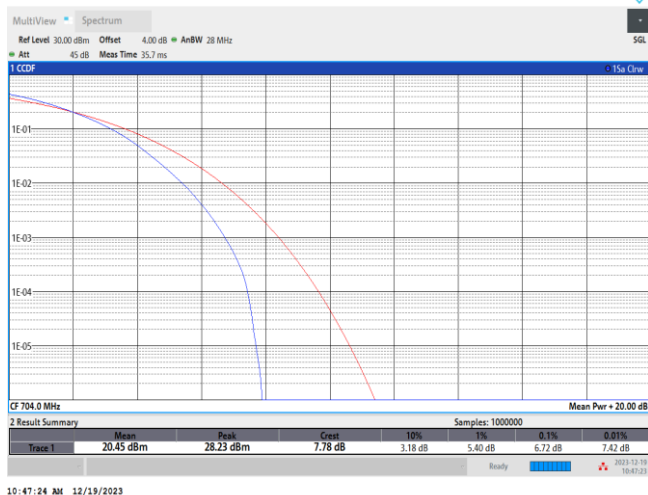


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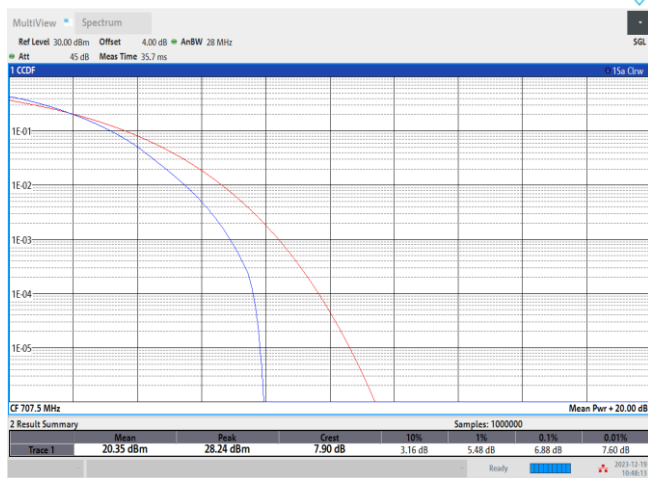
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Band12-10MHz-64QAM-23060-50RB#0



10:47:24 AM 12/19/2023

Band12-10MHz-64QAM-23095-50RB#0



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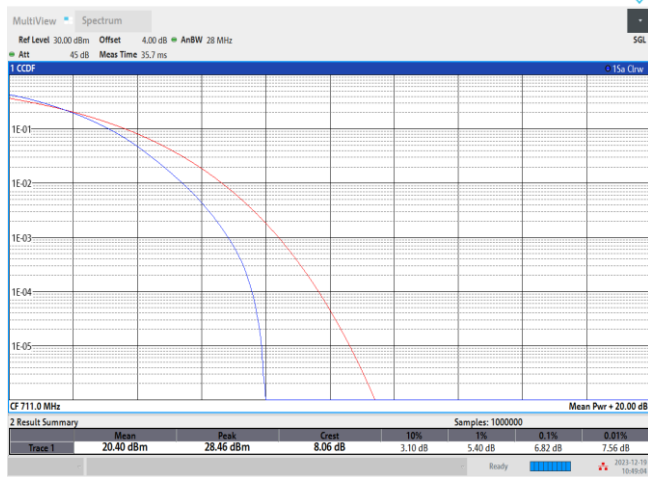


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Band12-10MHz-64QAM-23130-50RB#0



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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	23095	6RB#0	1.101	1.37	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.113	1.38	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.103	1.38	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.698	3.05	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.699	3.03	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.697	3.04	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.484	5.02	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.478	5.08	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.477	5.02	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.953	9.86	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.941	9.86	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.941	9.80	PASS

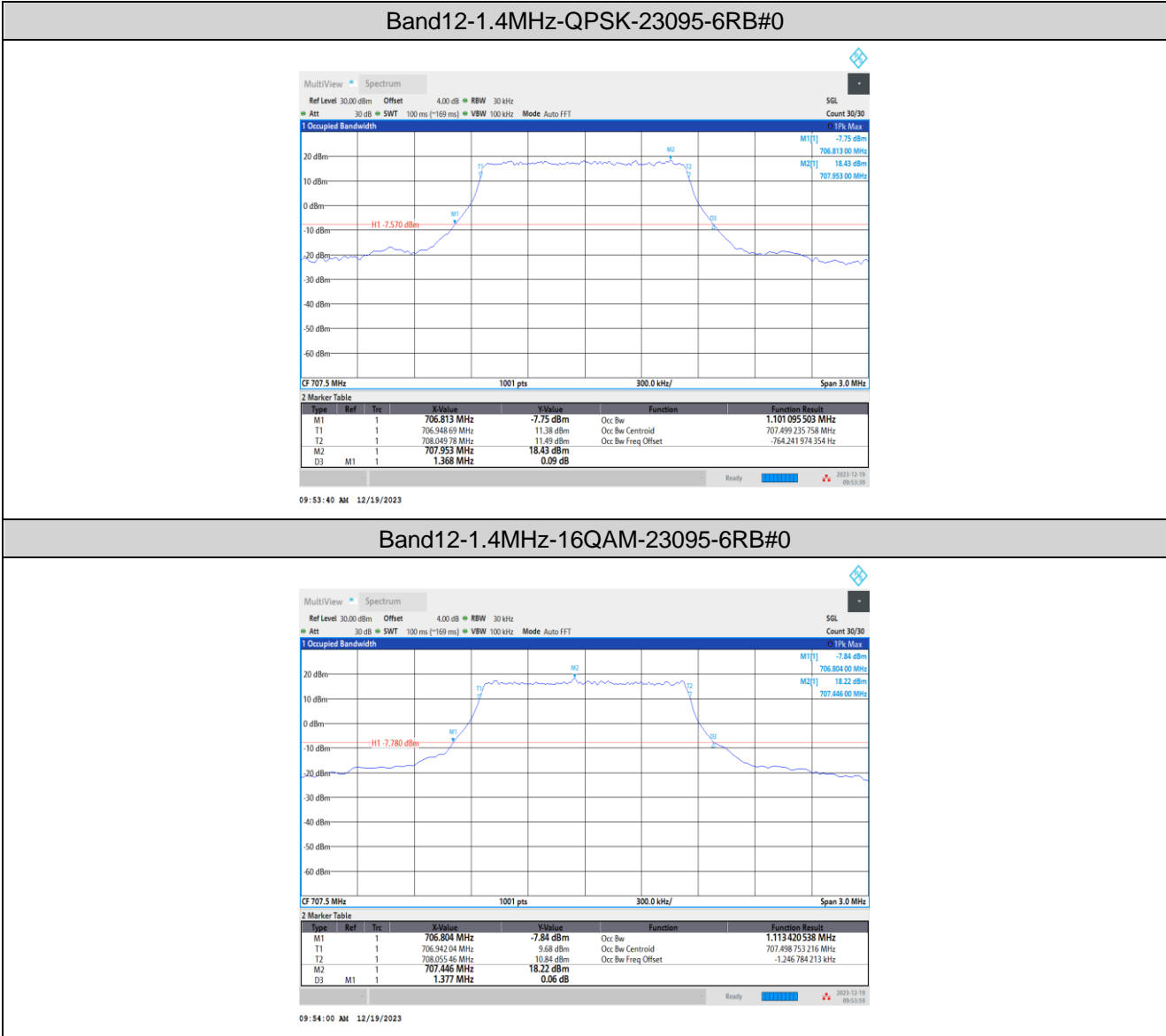


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Test Graphs

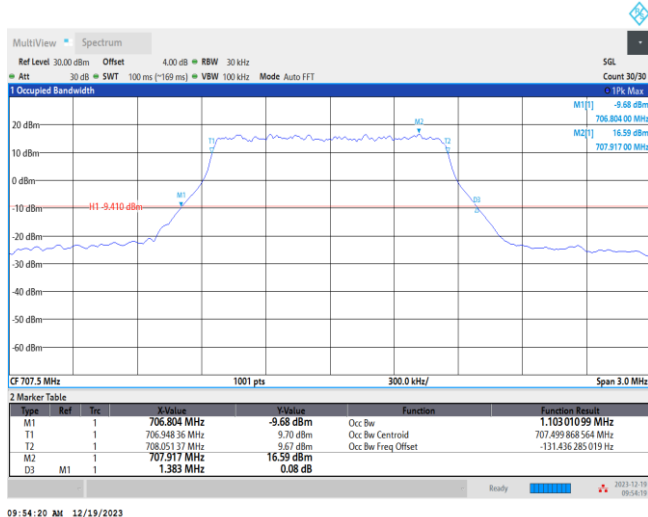


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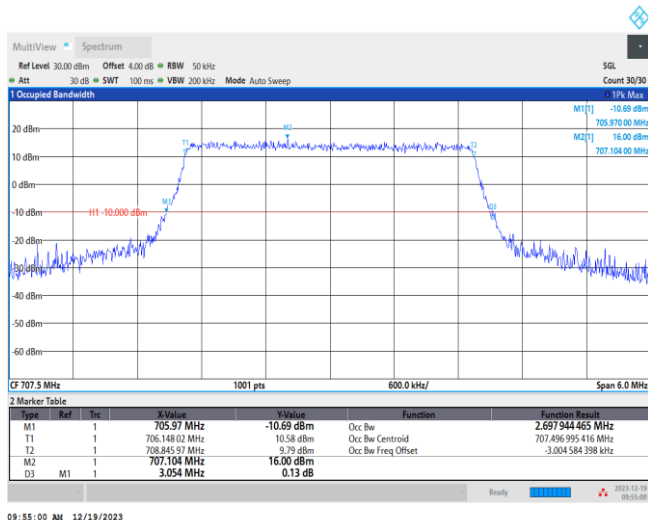
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Band12-1.4MHz-64QAM-23095-6RB#0



Band12-3MHz-QPSK-23095-15RB#0

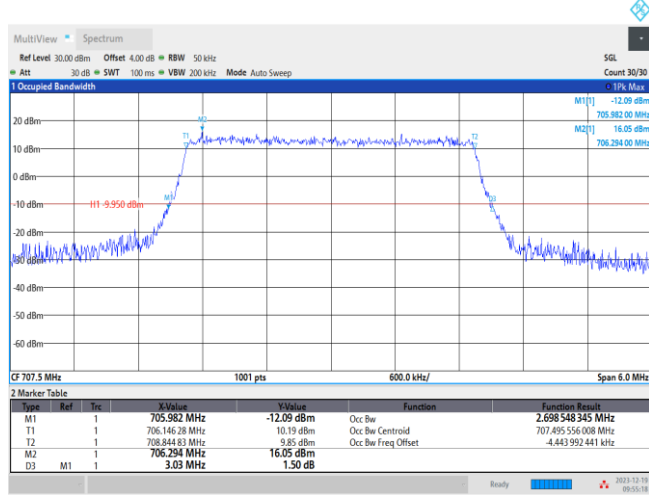


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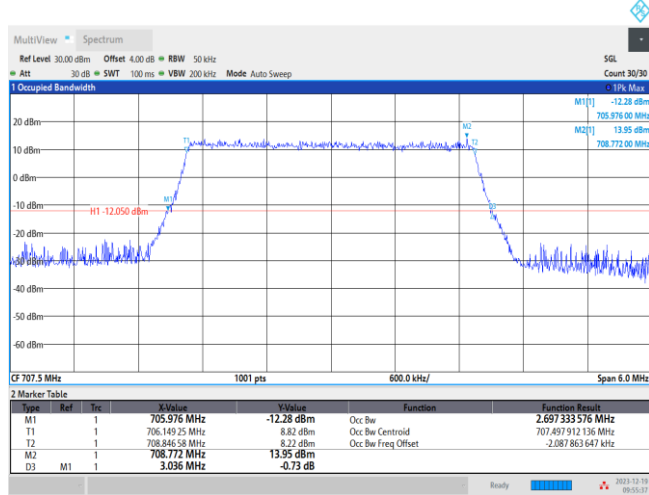
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Band12-3MHz-64QAM-23095-15RB#0



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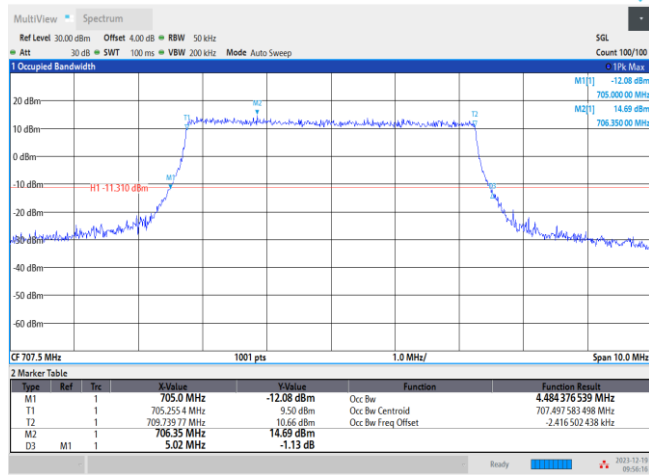


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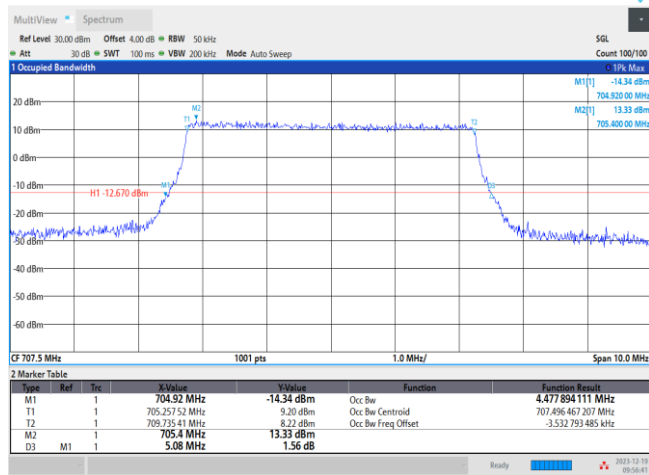
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Band12-5MHz-QPSK-23095-25RB#0



Band12-5MHz-16QAM-23095-25RB#0

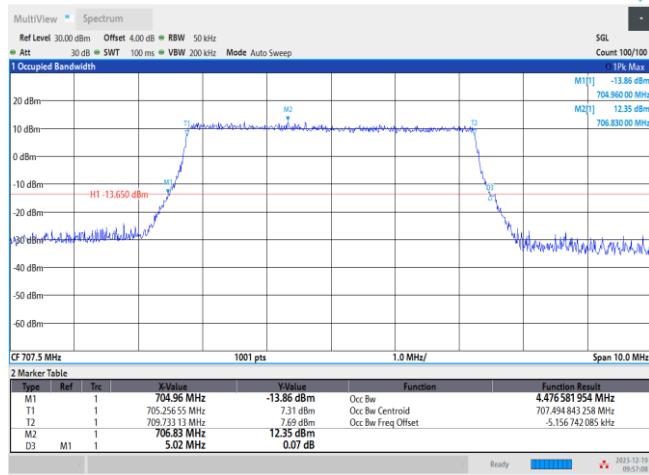


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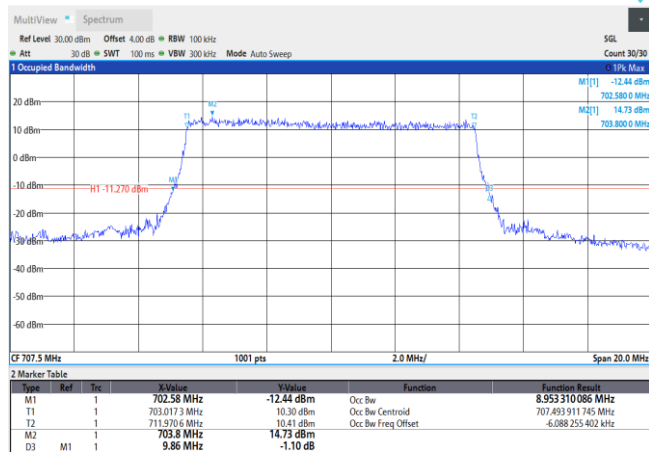
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Band12-5MHz-64QAM-23095-25RB#0



09:57:09 AM 12/19/2023

Band12-10MHz-QPSK-23095-50RB#0



09:57:59 AM 12/19/2023

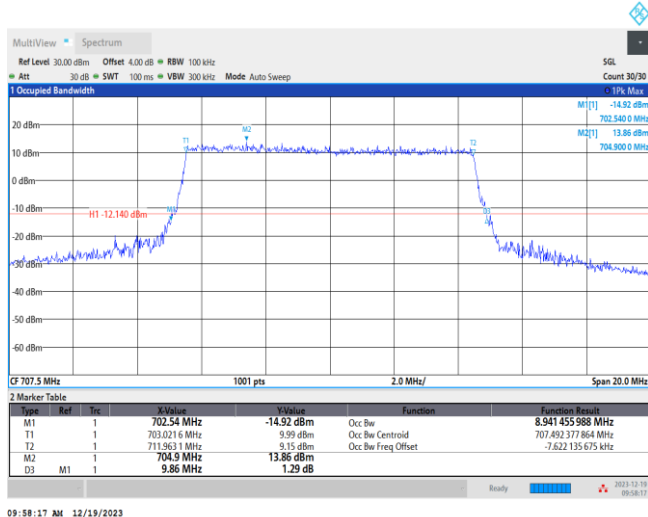


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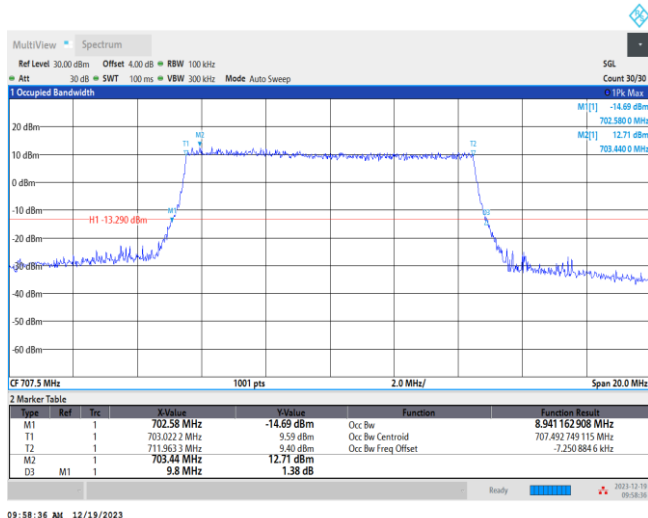
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Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-64QAM-23095-50RB#0



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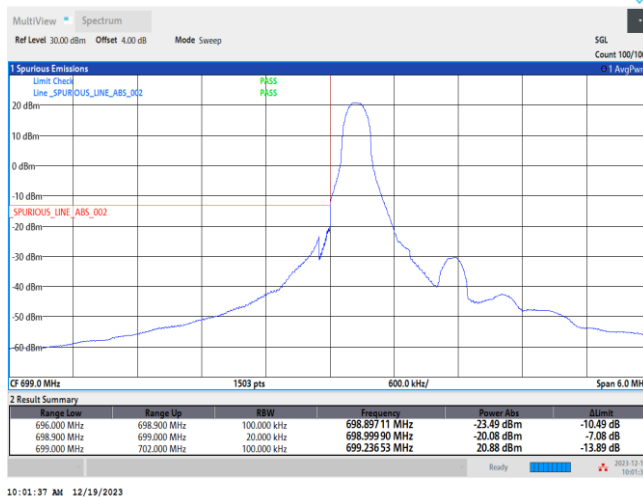
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Band Edge

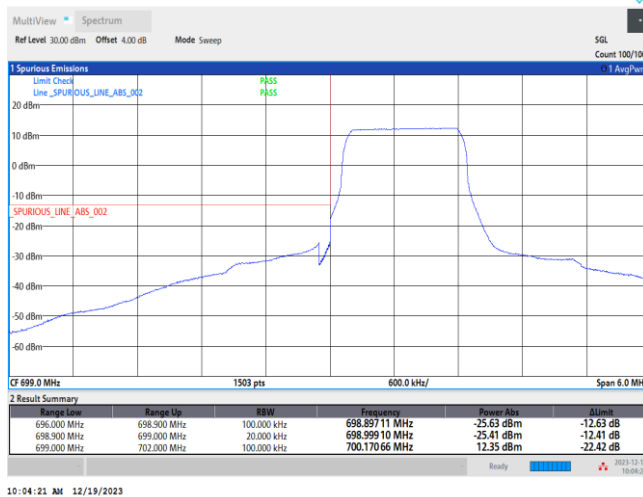
Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



10:01:37 AM 12/19/2023

Band12-1.4MHz-QPSK-23017-6RB#0



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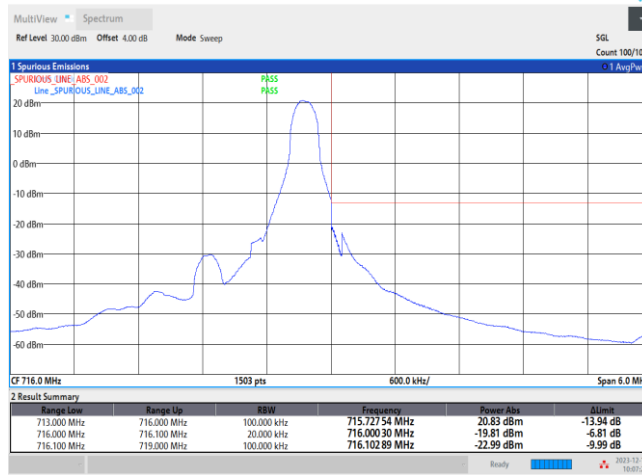


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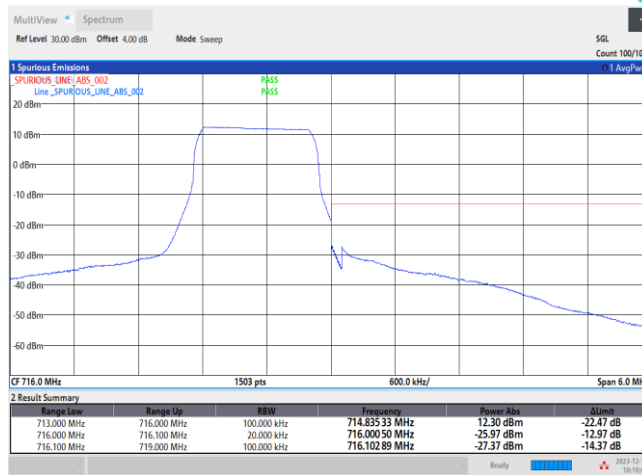
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Band12-1.4MHz-QPSK-23173-1RB#5



10:07:22 AM 12/19/2023

Band12-1.4MHz-QPSK-23173-6RB#0



10:10:06 AM 12/19/2023

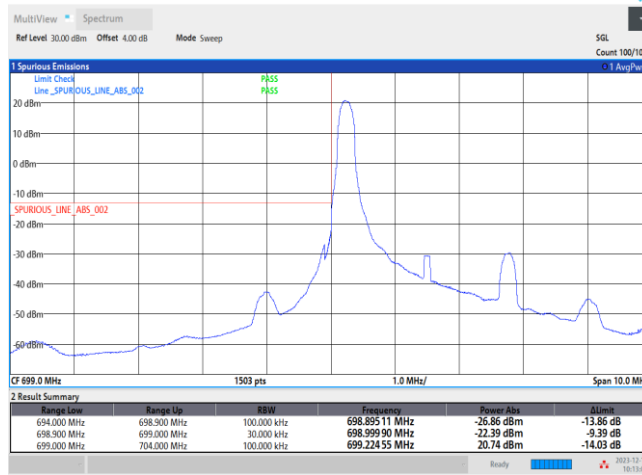


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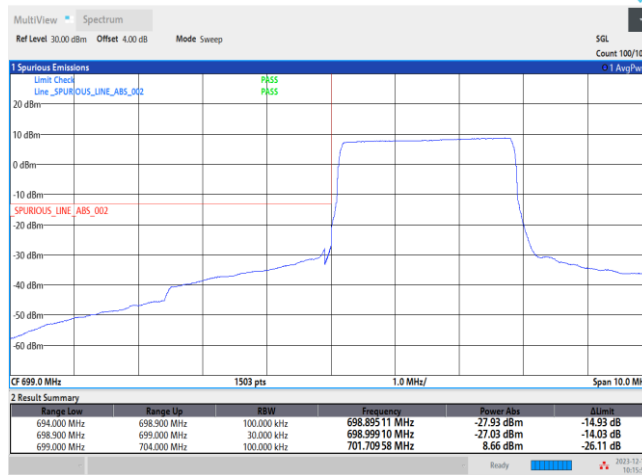
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Band12-3MHz-QPSK-23025-1RB#0



10:13:09 AM 12/19/2023

Band12-3MHz-QPSK-23025-15RB#0



10:15:53 AM 12/19/2023

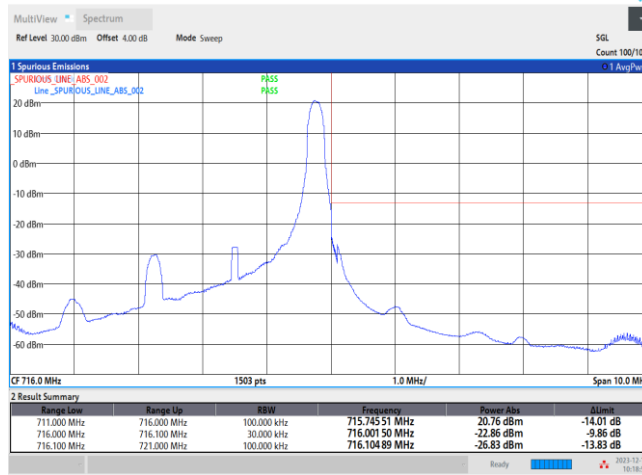


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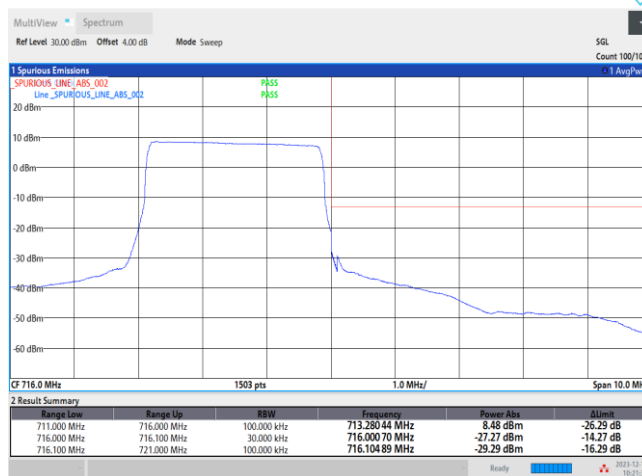
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Band12-3MHz-QPSK-23165-1RB#14



10:18:56 AM 12/19/2023

Band12-3MHz-QPSK-23165-15RB#0



10:21:40 AM 12/19/2023

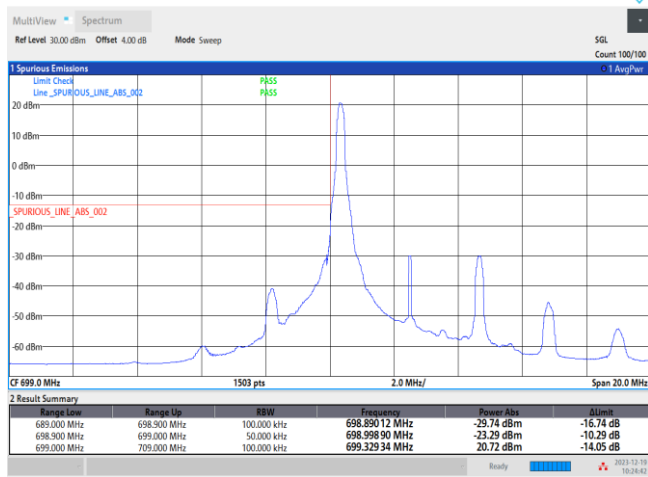


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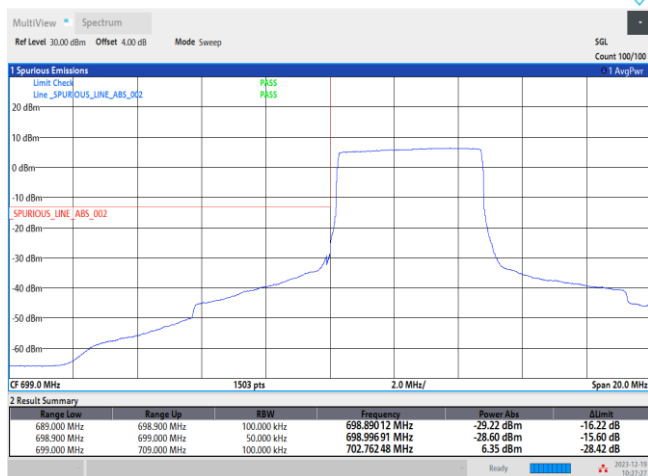
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Band12-5MHz-QPSK-23035-1RB#0



10:24:43 AM 12/19/2023

Band12-5MHz-QPSK-23035-25RB#0



10:27:27 AM 12/19/2023

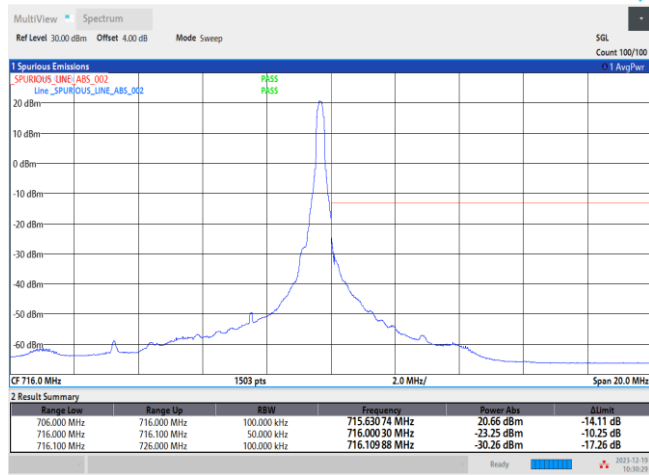


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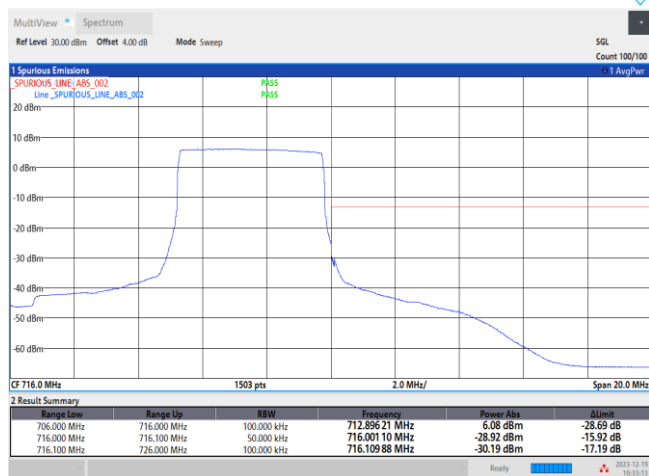
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Band12-5MHz-QPSK-23155-1RB#24



10:30:30 AM 12/19/2023

Band12-5MHz-QPSK-23155-25RB#0



10:33:14 AM 12/19/2023

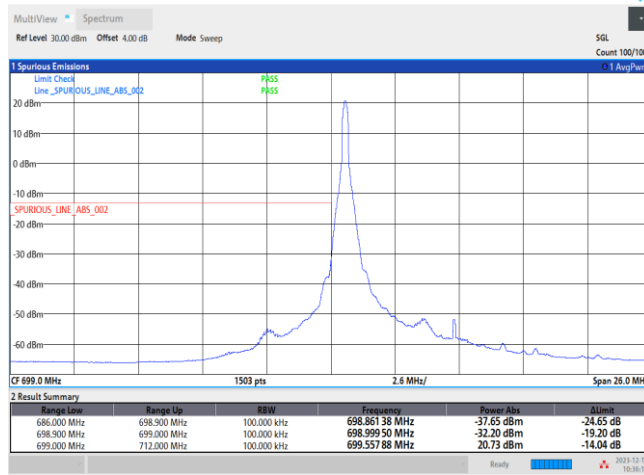


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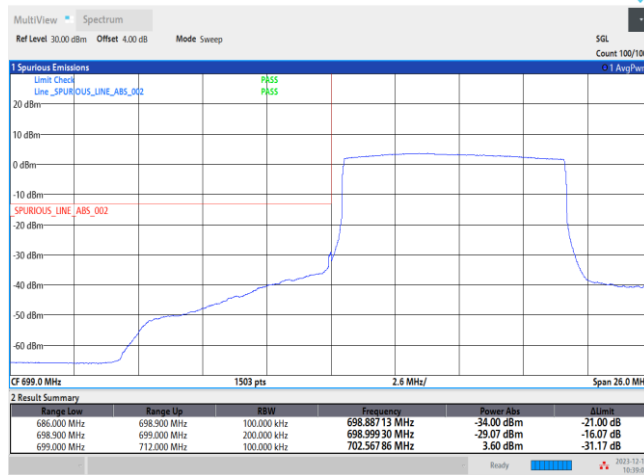
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Band12-10MHz-QPSK-23060-1RB#0



10:36:17 AM 12/19/2023

Band12-10MHz-QPSK-23060-50RB#0



10:39:01 AM 12/19/2023

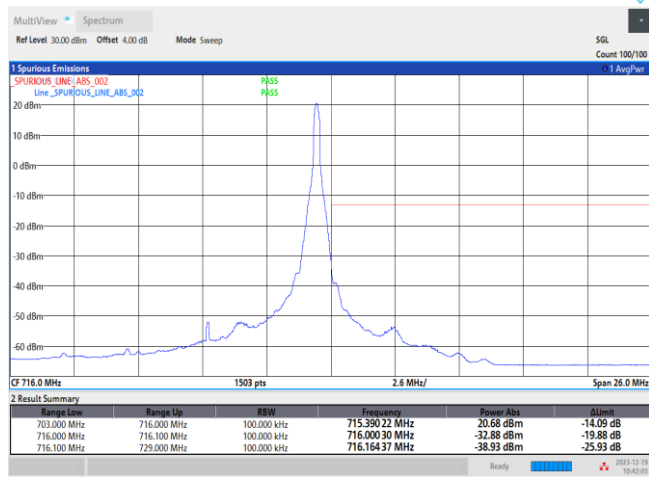


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Band12-10MHz-QPSK-23130-1RB#49



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Band12-10MHz-QPSK-23130-50RB#0



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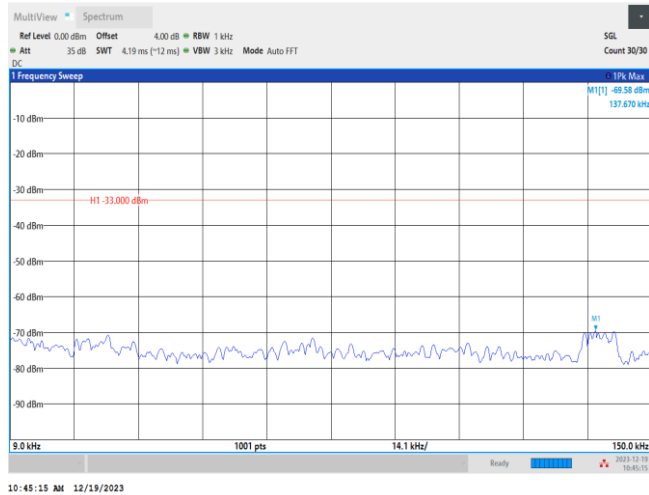
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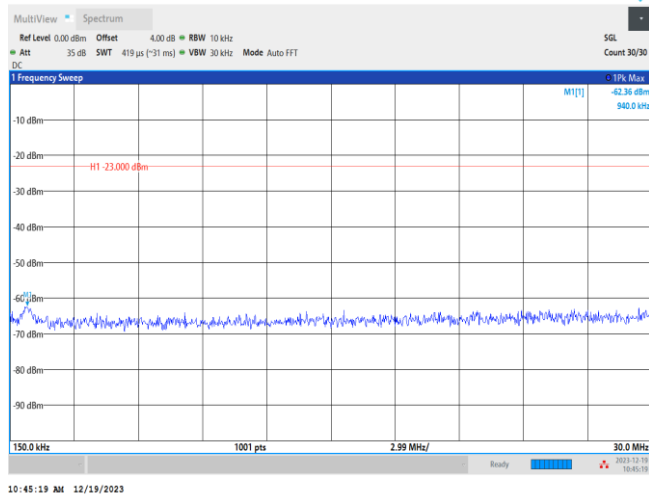
Conducted Spurious Emission

Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



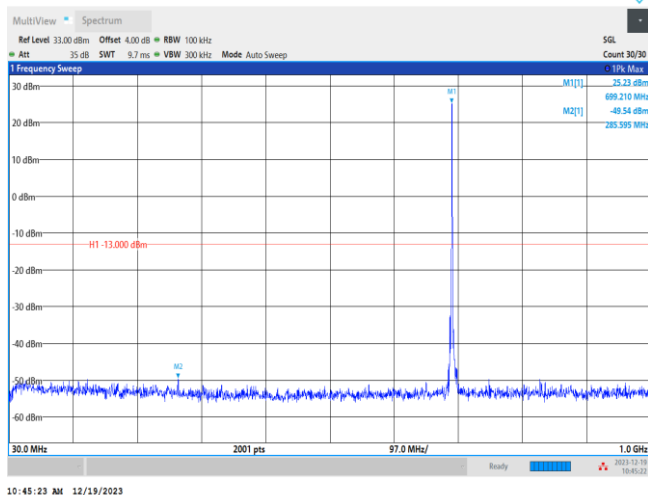
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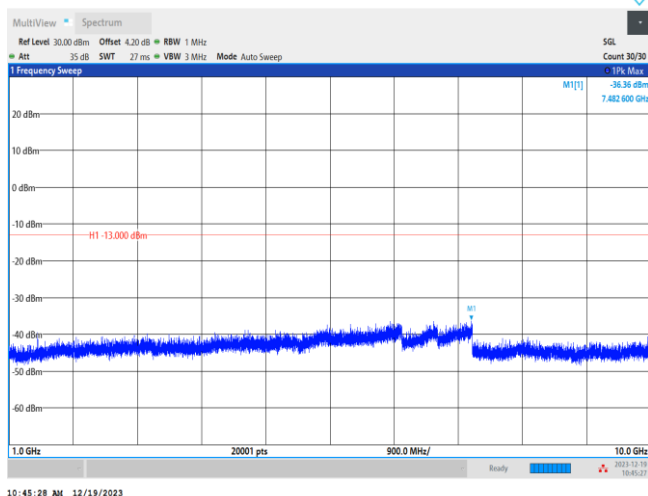
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



10:45:23 AM 12/19/2023

Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



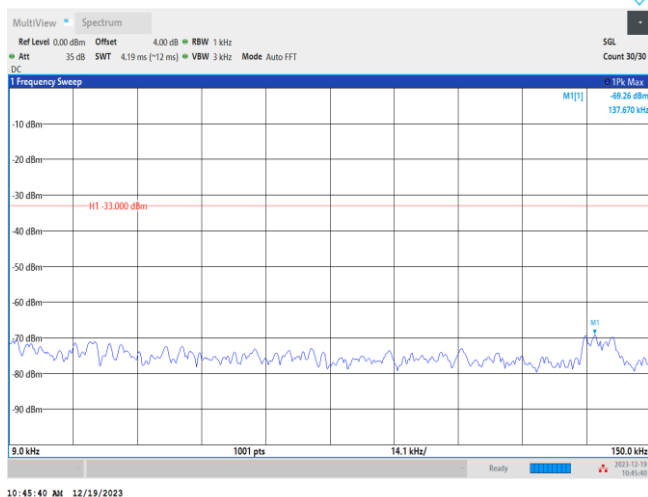
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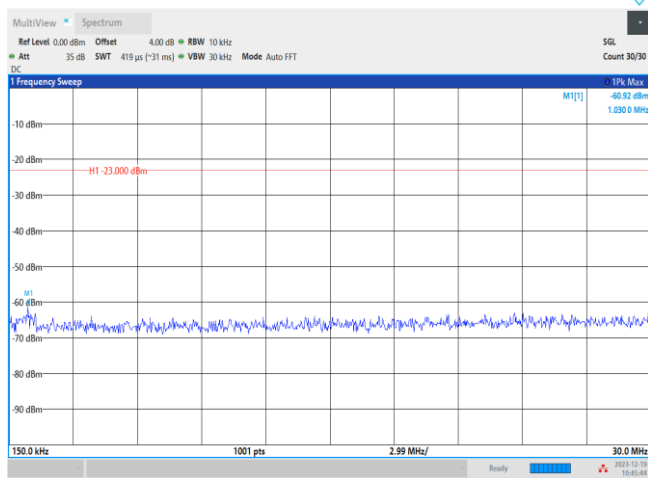
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



10:45:40 AM 12/19/2023

Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



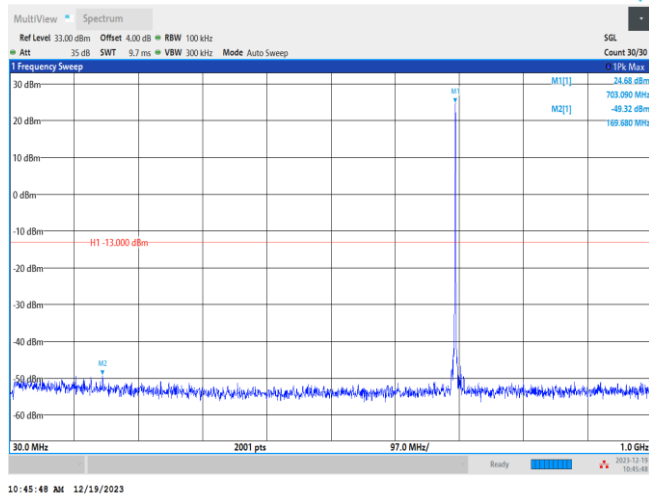
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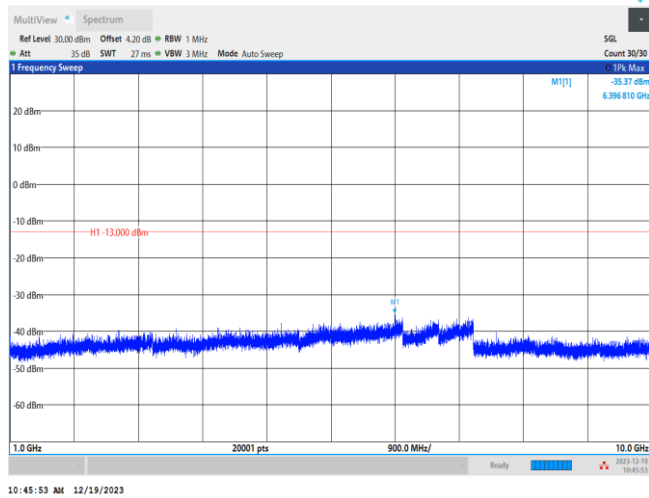
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz

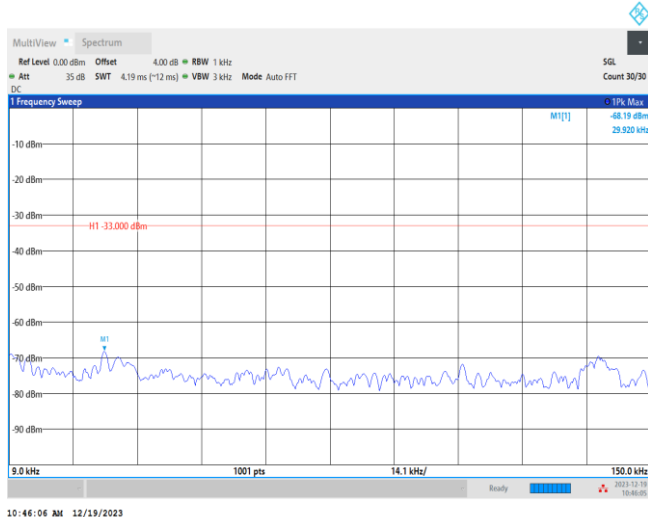


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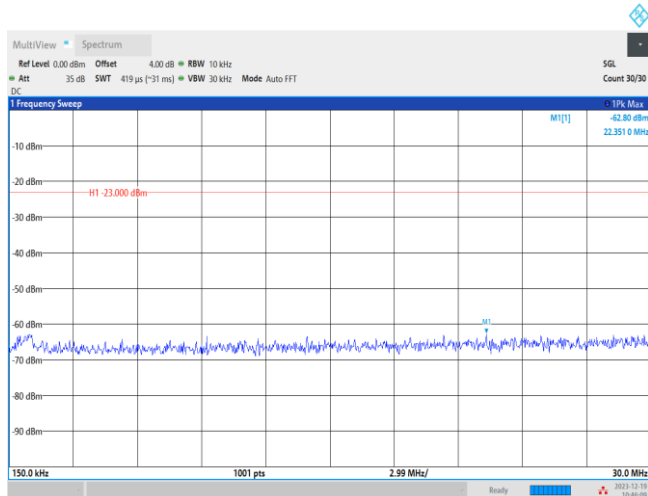
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



10:46:06 AM 12/19/2023

Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



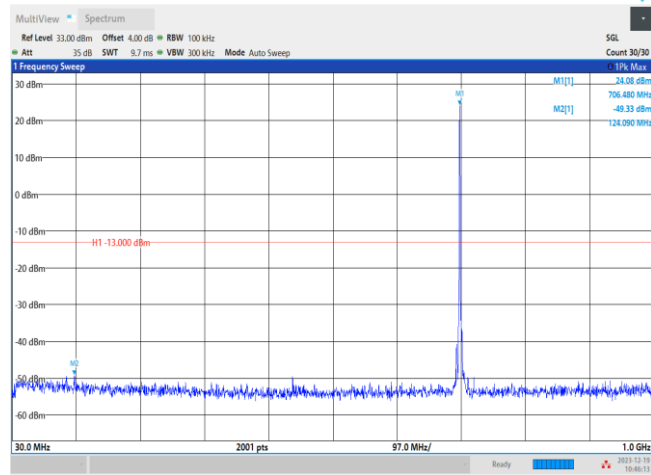
10:46:10 AM 12/19/2023



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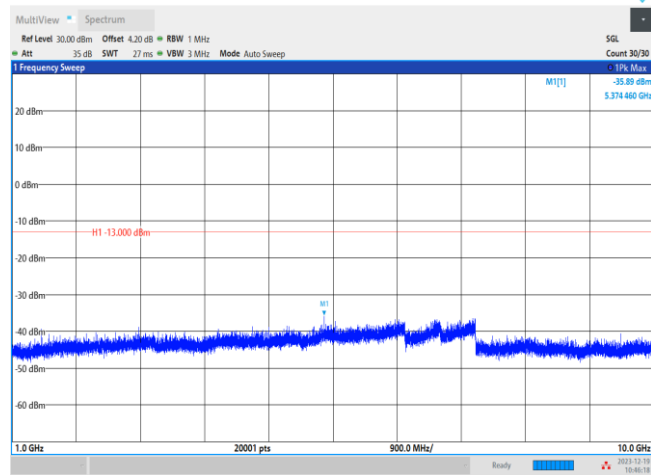
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



10:46:14 AM 12/19/2023

Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



10:46:19 AM 12/19/2023



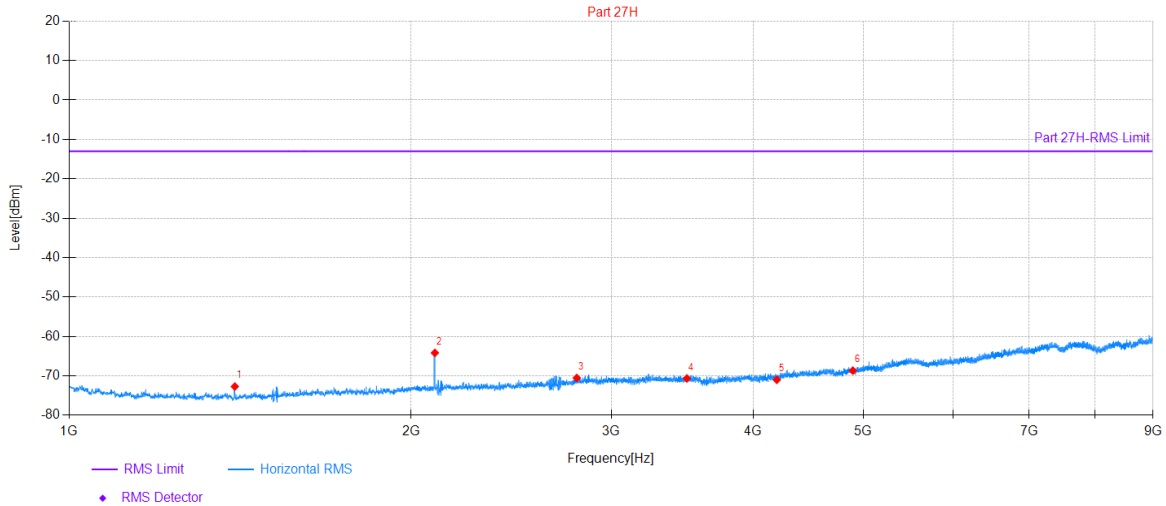
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Field Strength of Spurious Radiation

Test Band = LTE Band 12_ TM1

Test Channel = Low Channel



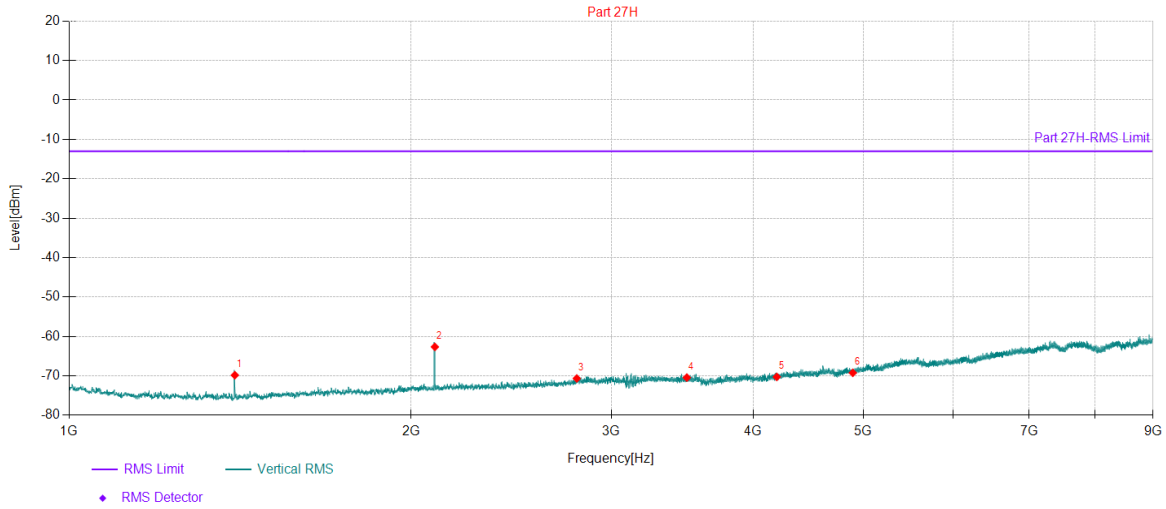
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.18	48.26	-50.01	24.30	-72.71	-13.00	59.71	Horizontal
2	2098.77	53.73	-49.46	26.82	-64.17	-13.00	51.17	Horizontal
3	2798.36	45.39	-48.68	28.02	-70.54	-13.00	57.54	Horizontal
4	3497.95	44.35	-48.44	28.70	-70.65	-13.00	57.65	Horizontal
5	4197.54	42.86	-48.36	29.76	-71.00	-13.00	58.00	Horizontal
6	4897.13	43.50	-48.17	31.25	-68.67	-13.00	55.67	Horizontal



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Test Band = LTE Band 12_TM1
Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.18	51.14	-50.01	24.30	-69.83	-13.00	56.83	Vertical
2	2098.77	55.25	-49.46	26.82	-62.65	-13.00	49.65	Vertical
3	2798.36	45.27	-48.68	28.02	-70.66	-13.00	57.66	Vertical
4	3497.95	44.57	-48.44	28.70	-70.43	-13.00	57.43	Vertical
5	4197.54	43.59	-48.36	29.76	-70.27	-13.00	57.27	Vertical
6	4897.13	42.94	-48.17	31.25	-69.23	-13.00	56.23	Vertical

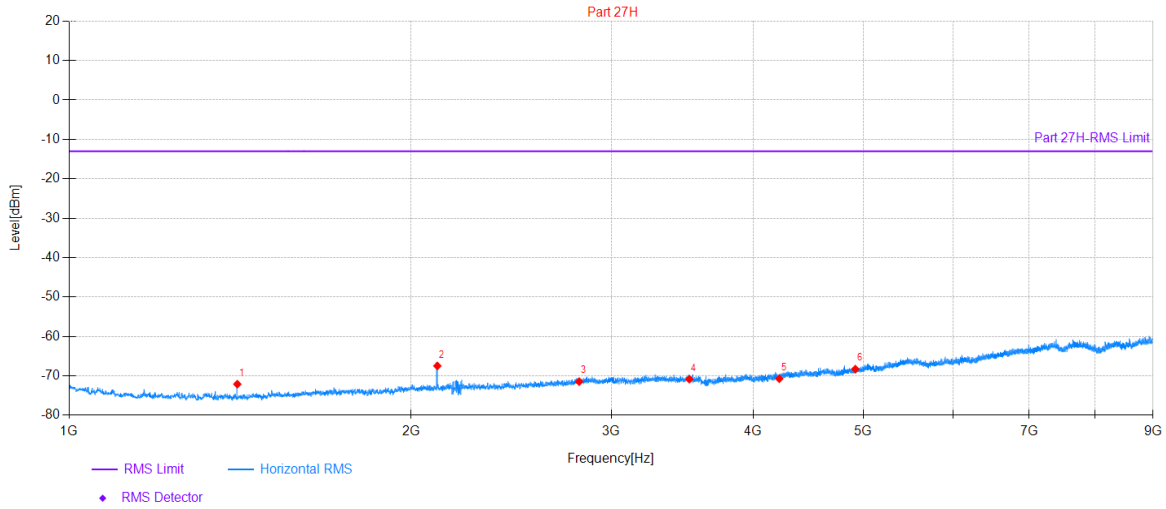


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Test Band = LTE Band 12_ TM1

Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.18	48.82	-50.00	24.33	-72.11	-13.00	59.11	Horizontal
2	2109.27	50.42	-49.46	26.83	-67.47	-13.00	54.47	Horizontal
3	2812.36	44.44	-48.69	28.05	-71.46	-13.00	58.46	Horizontal
4	3515.45	44.14	-48.44	28.72	-70.84	-13.00	57.84	Horizontal
5	4218.54	43.04	-48.30	29.79	-70.72	-13.00	57.72	Horizontal
6	4921.63	43.78	-48.12	31.31	-68.29	-13.00	55.29	Horizontal



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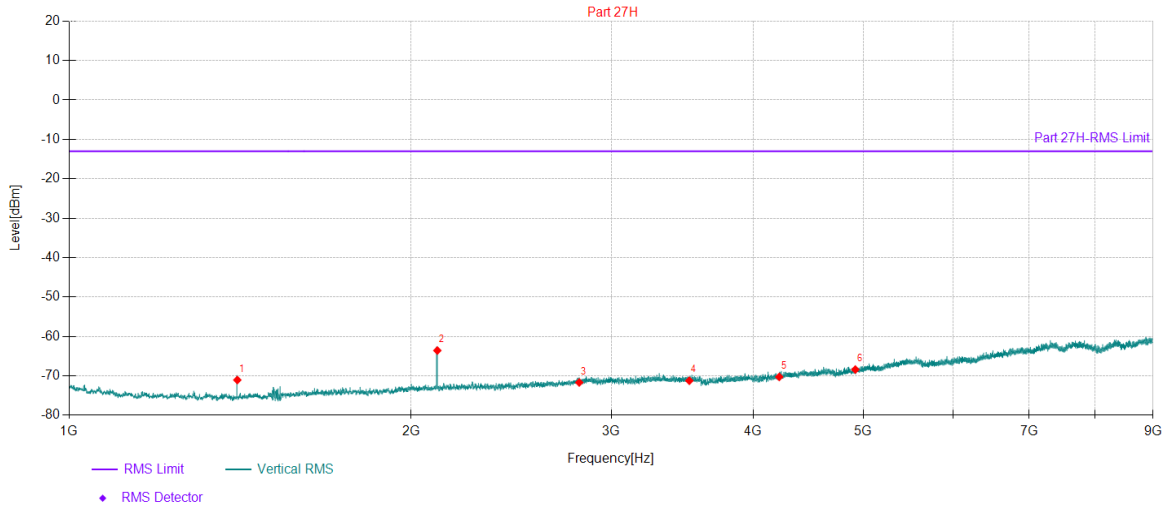
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 t (86-512) 62992980 sgs.china@sgs.com

Test Band = LTE Band 12_ TM1

Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.18	49.88	-50.00	24.33	-71.05	-13.00	58.05	Vertical
2	2109.27	54.32	-49.46	26.83	-63.57	-13.00	50.57	Vertical
3	2812.36	44.22	-48.69	28.05	-71.68	-13.00	58.68	Vertical
4	3515.45	43.75	-48.44	28.72	-71.23	-13.00	58.23	Vertical
5	4218.54	43.49	-48.30	29.79	-70.27	-13.00	57.27	Vertical
6	4921.63	43.67	-48.12	31.31	-68.40	-13.00	55.40	Vertical



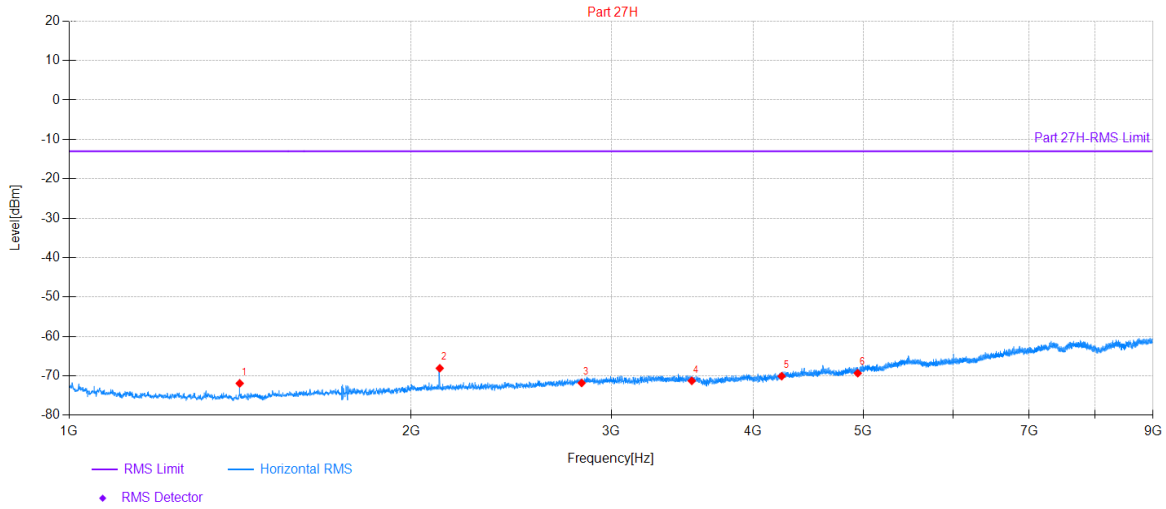
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Test Band = LTE Band 12_ TM1

Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	48.98	-49.99	24.35	-71.91	-13.00	58.91	Horizontal
2	2119.77	49.81	-49.47	26.84	-68.07	-13.00	55.07	Horizontal
3	2826.36	44.07	-48.71	28.08	-71.81	-13.00	58.81	Horizontal
4	3532.95	43.70	-48.45	28.75	-71.26	-13.00	58.26	Horizontal
5	4239.54	43.58	-48.23	29.83	-70.08	-13.00	57.08	Horizontal
6	4946.13	42.63	-48.07	31.37	-69.33	-13.00	56.33	Horizontal

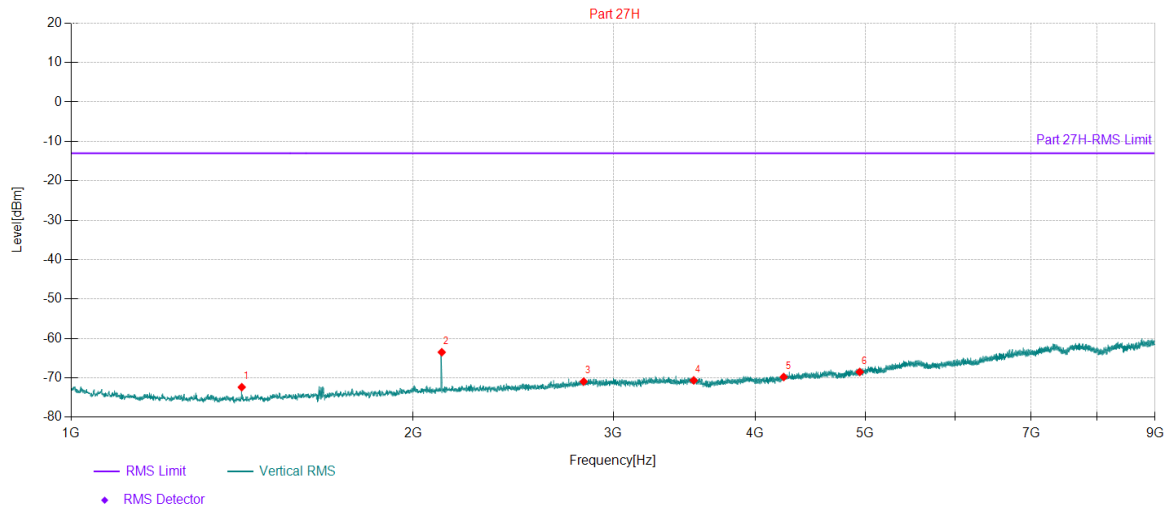


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Test Band = LTE Band 12_ TM1
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	48.53	-49.99	24.35	-72.36	-13.00	59.36	Vertical
2	2119.77	54.38	-49.47	26.84	-63.50	-13.00	50.50	Vertical
3	2826.36	44.94	-48.71	28.08	-70.94	-13.00	57.94	Vertical
4	3532.95	44.32	-48.45	28.75	-70.64	-13.00	57.64	Vertical
5	4239.54	43.88	-48.23	29.83	-69.78	-13.00	56.78	Vertical
6	4946.13	43.45	-48.07	31.37	-68.51	-13.00	55.51	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	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	1.30	0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.10	0.000141	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.70	0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	0.80	0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.50	0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.30	-0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	2.00	0.002827	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	0.90	0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.20	0.000283	PASS

---End of Attachment---



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