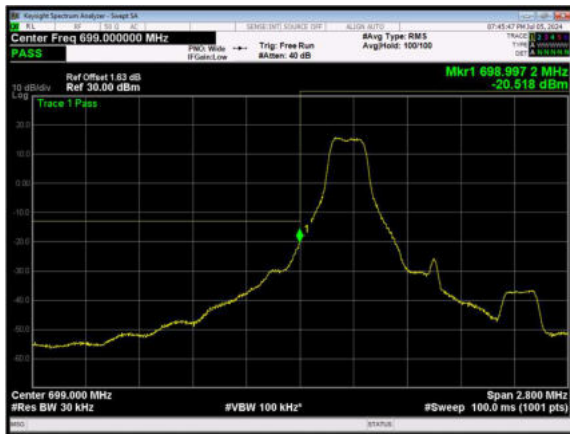
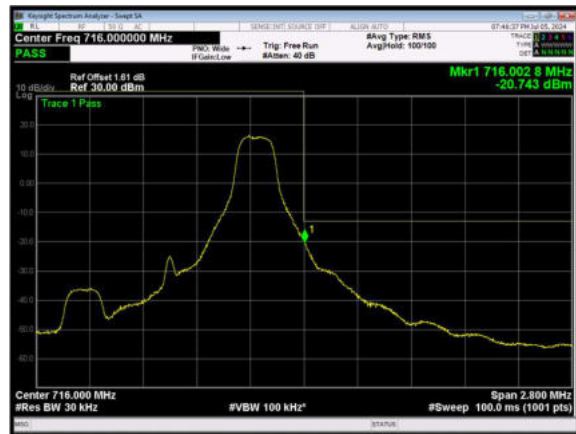


LTE Band 12 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 12 QPSK 1.4MHz CH-High, 1 RB



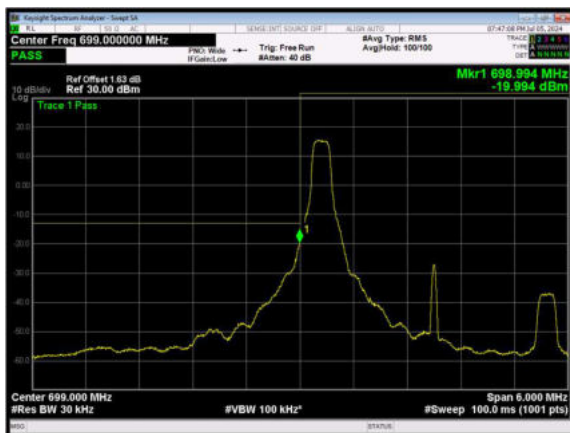
LTE Band 12 QPSK 1.4MHz CH-Low, 100%RB



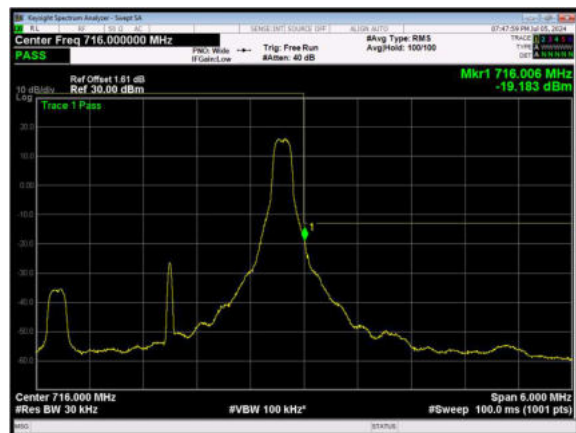
LTE Band 12 QPSK 1.4MHz CH-High, 100%RB



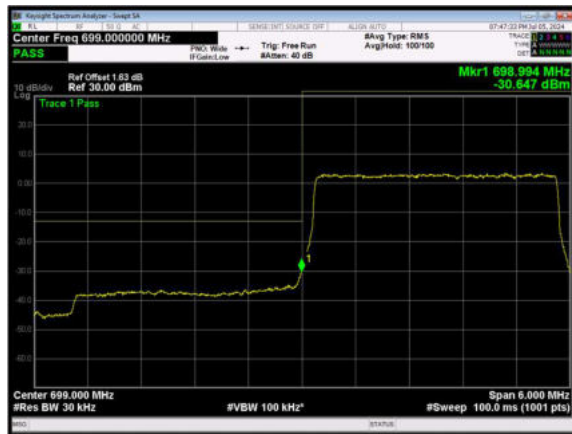
LTE Band 12 QPSK 3MHz CH-Low, 1 RB



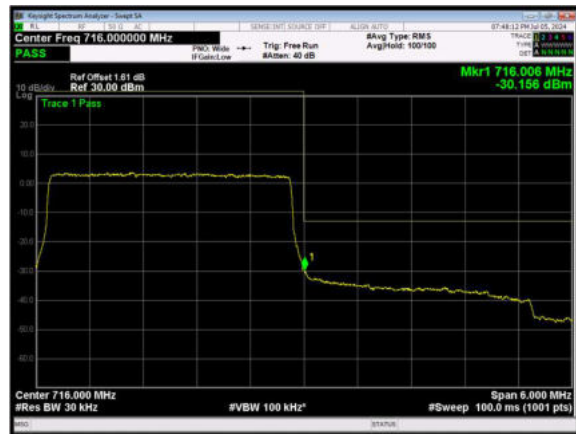
LTE Band 12 QPSK 3MHz CH-High, 1 RB



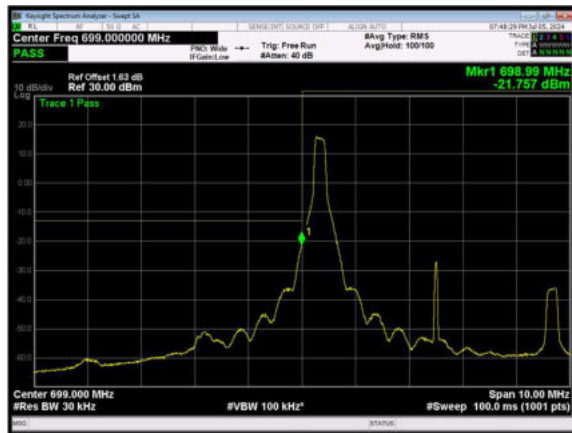
LTE Band 12 QPSK 3MHz CH-Low, 100%RB



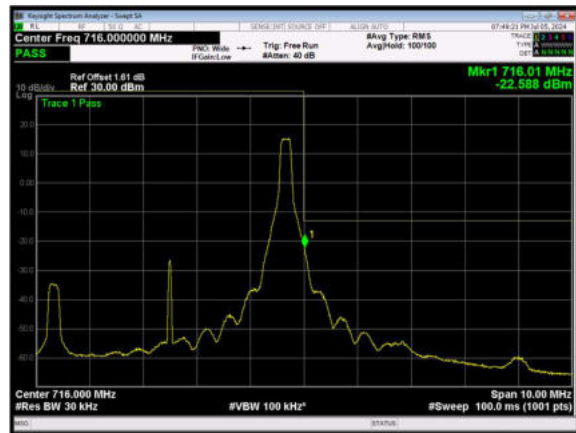
LTE Band 12 QPSK 3MHz CH-High, 100%RB



LTE Band 12 QPSK 5MHz CH-Low, 1 RB



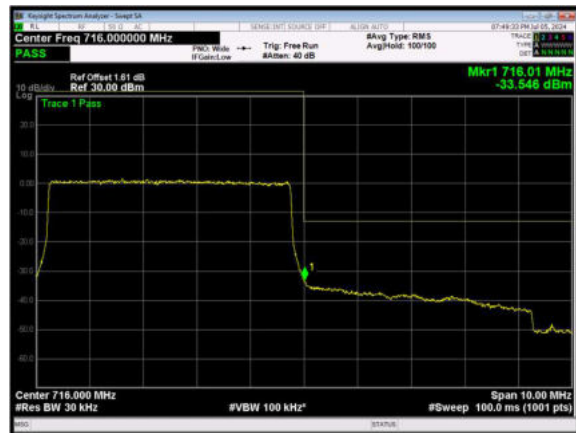
LTE Band 12 QPSK 5MHz CH-High, 1 RB



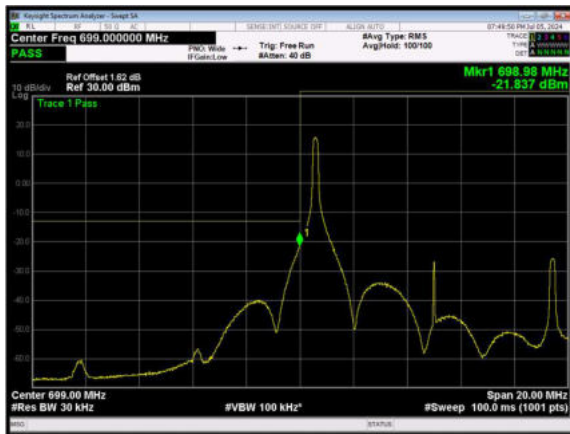
LTE Band 12 QPSK 5MHz CH-Low, 100%RB



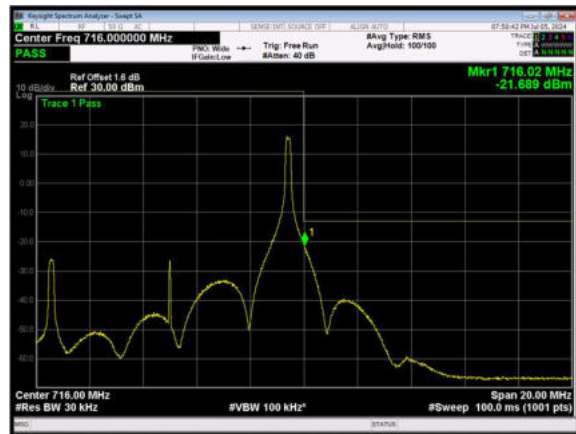
LTE Band 12 QPSK 5MHz CH-High, 100%RB



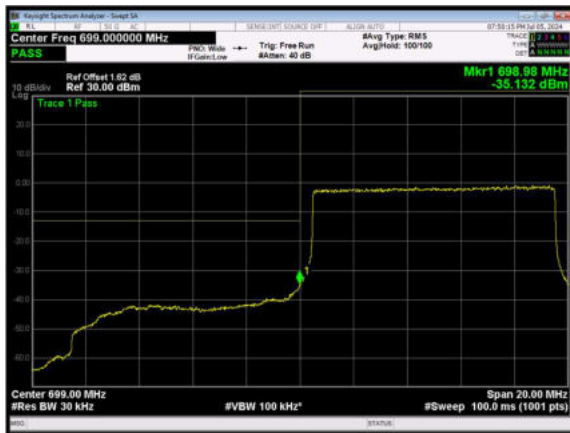
LTE Band 12 QPSK 10MHz CH-Low, 1 RB



LTE Band 12 QPSK 10MHz CH-High, 1 RB



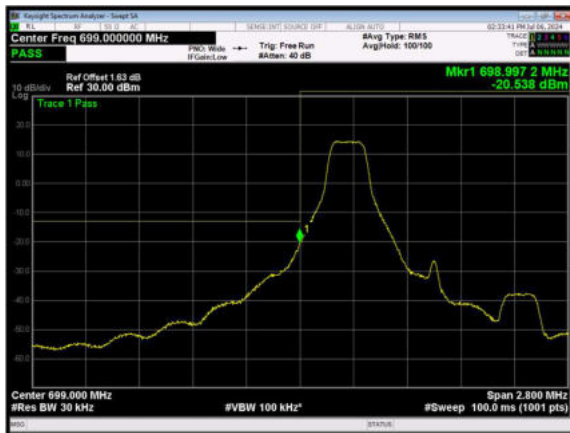
LTE Band 12 QPSK 10MHz CH-Low, 100%RB



LTE Band 12 QPSK 10MHz CH-High, 100%RB



LTE Band 12 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 12 16QAM 1.4MHz CH-High, 1 RB



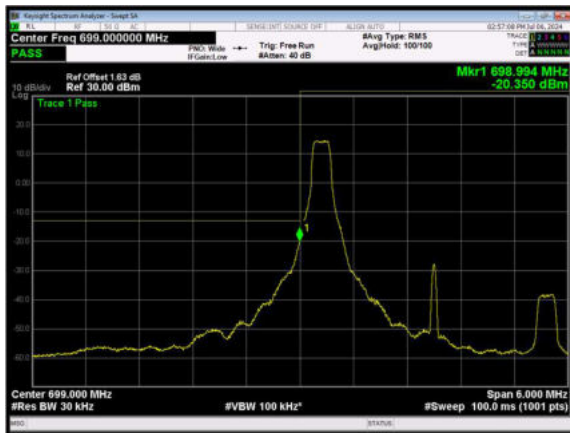
LTE Band 12 16QAM 1.4MHz CH-Low, 100%RB



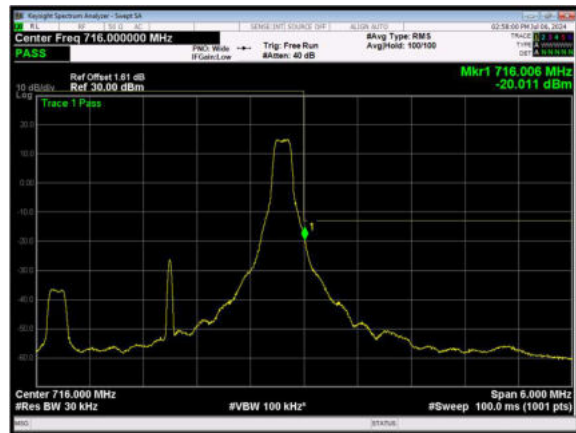
LTE Band 12 16QAM 1.4MHz CH-High, 100%RB



LTE Band 12 16QAM 3MHz CH-Low, 1 RB



LTE Band 12 16QAM 3MHz CH-High, 1 RB



LTE Band 12 16QAM 3MHz CH-Low, 100%RB



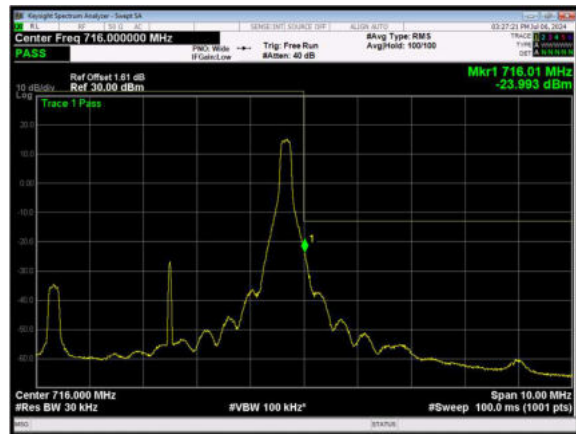
LTE Band 12 16QAM 3MHz CH-High, 100%RB



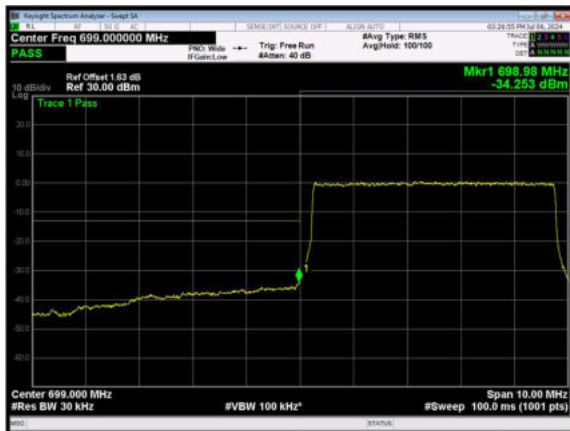
LTE Band 12 16QAM 5MHz CH-Low, 1 RB



LTE Band 12 16QAM 5MHz CH-High, 1 RB



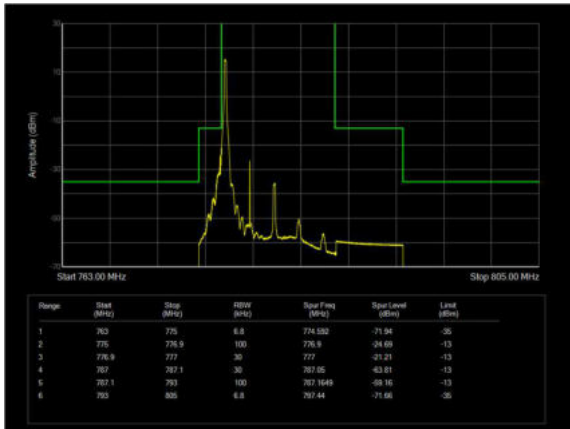
LTE Band 12 16QAM 5MHz CH-Low, 100%RB



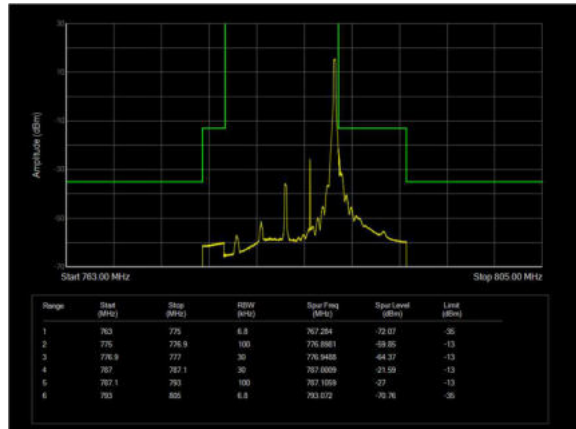
LTE Band 12 16QAM 5MHz CH-High, 100%RB



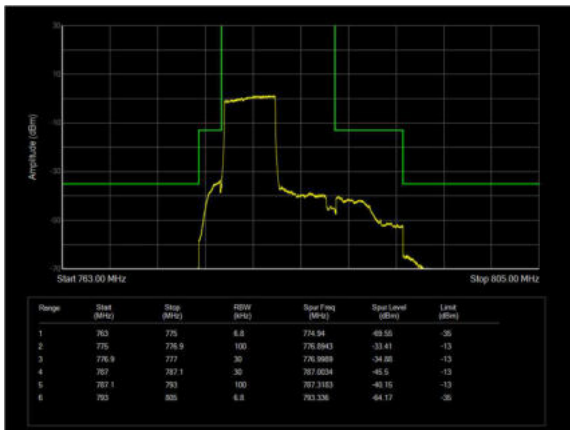
LTE Band 13 QPSK 5MHz CH-Low, 1 RB



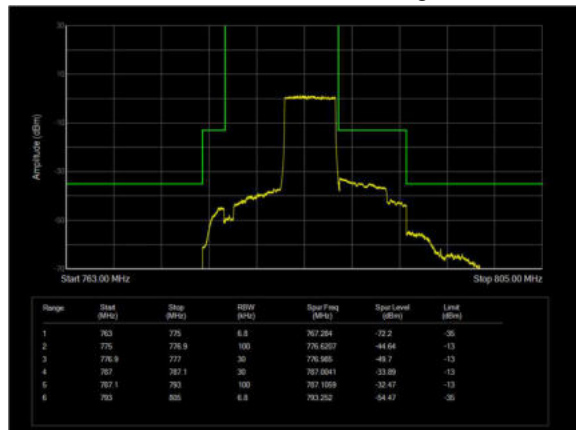
LTE Band 13 QPSK 5MHz CH-High, 1 RB



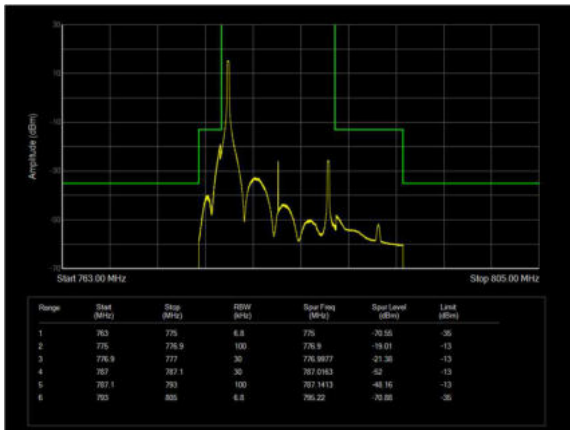
LTE Band 13 QPSK 5MHz CH-Low, 100%RB



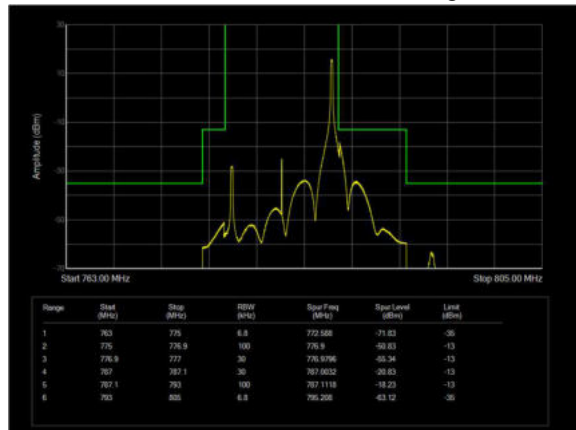
LTE Band 13 QPSK 5MHz CH-High, 100%RB



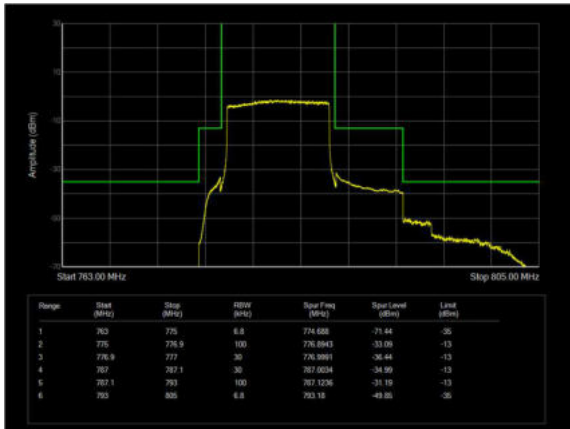
LTE Band 13 QPSK 10MHz CH-Low, 1 RB



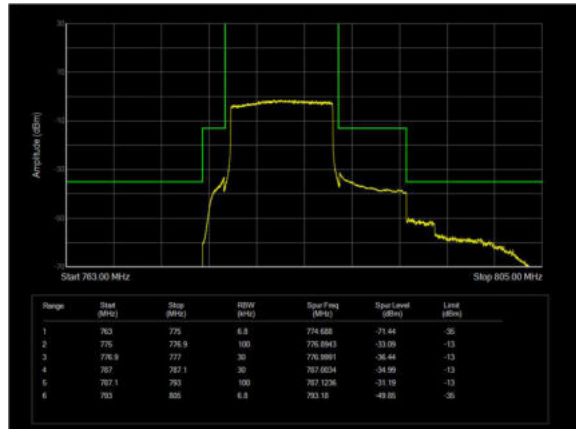
LTE Band 13 QPSK 10MHz CH-High, 1 RB



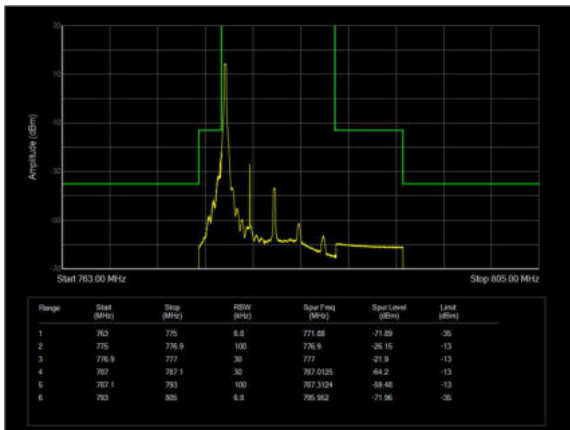
LTE Band 13 QPSK 10MHz CH-Low, 100%RB



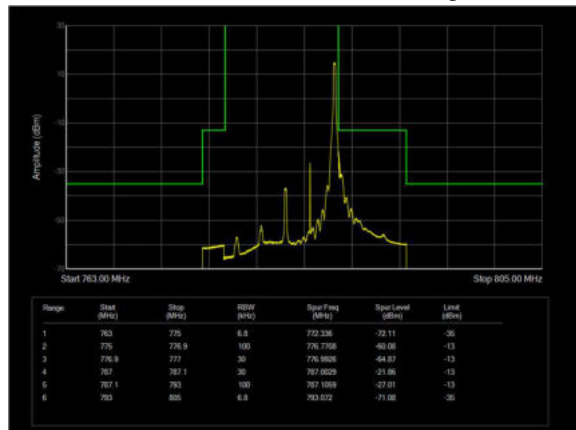
LTE Band 13 QPSK 10MHz CH-High, 100%RB



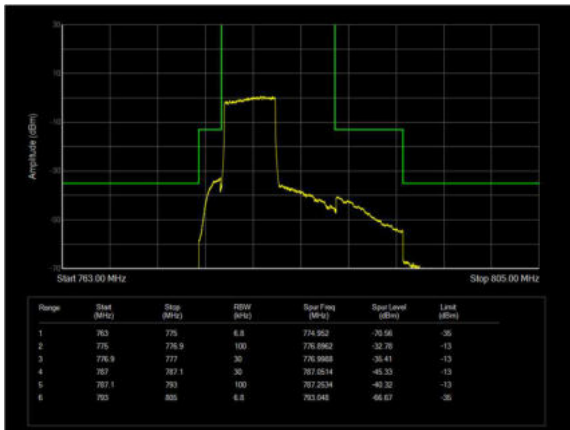
LTE Band 13 16QAM 5MHz CH-Low, 1 RB



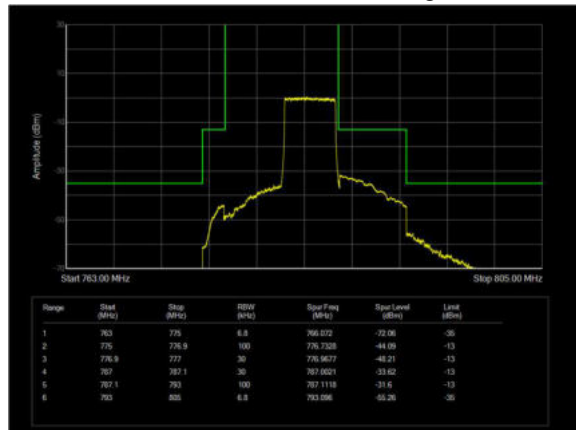
LTE Band 13 16QAM 5MHz CH-High, 1 RB



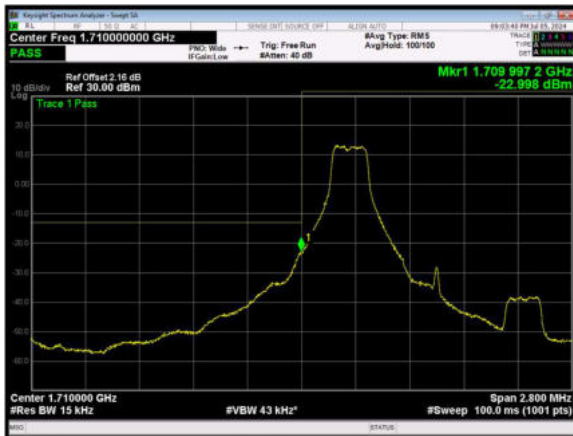
LTE Band 13 16QAM 5MHz CH-Low, 100%RB



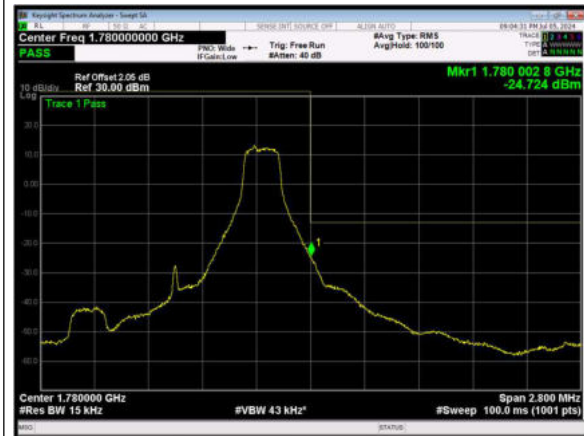
LTE Band 13 16QAM 5MHz CH-High, 100%RB



LTE Band 66 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 66 QPSK 1.4MHz CH-High, 1 RB



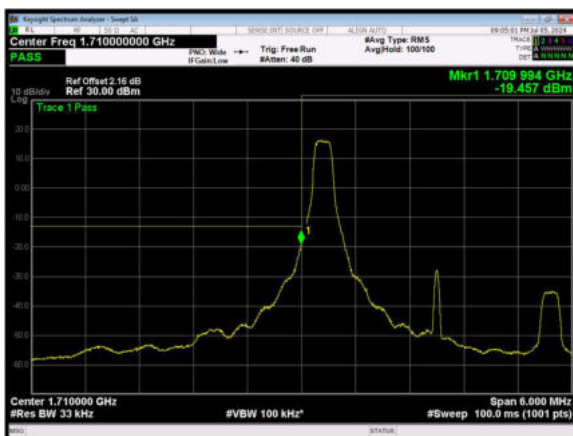
LTE Band 66 QPSK 1.4MHz CH-Low, 100%RB



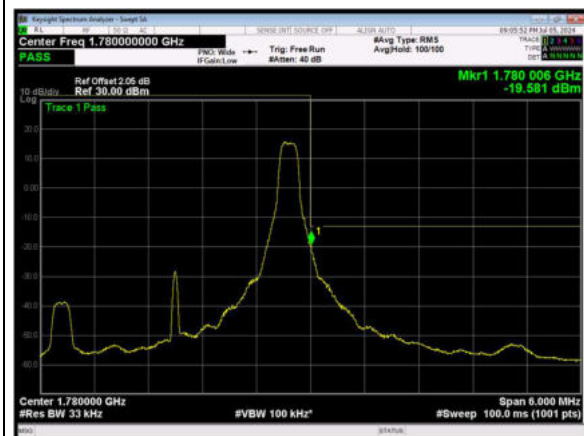
LTE Band 66 QPSK 1.4MHz CH-High, 100%RB



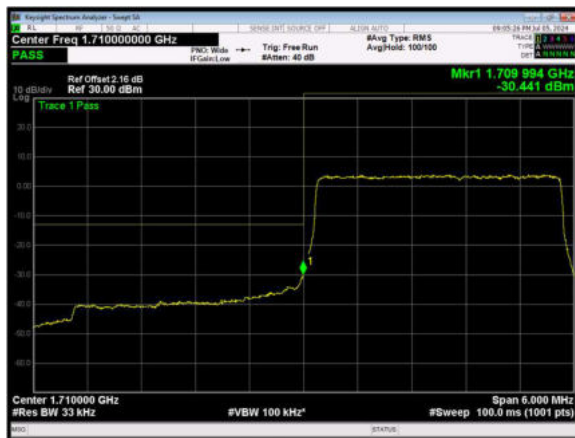
LTE Band 66 QPSK 3MHz CH-Low, 1 RB



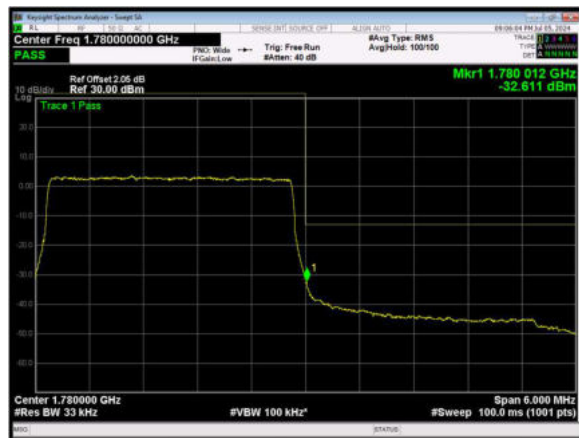
LTE Band 66 QPSK 3MHz CH-High, 1 RB



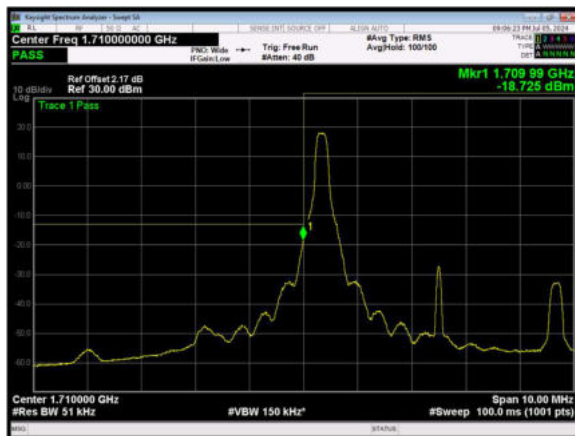
LTE Band 66 QPSK 3MHz CH-Low, 100%RB



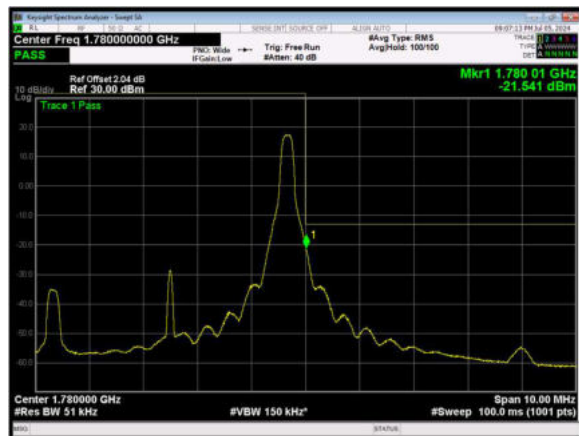
LTE Band 66 QPSK 3MHz CH-High, 100%RB



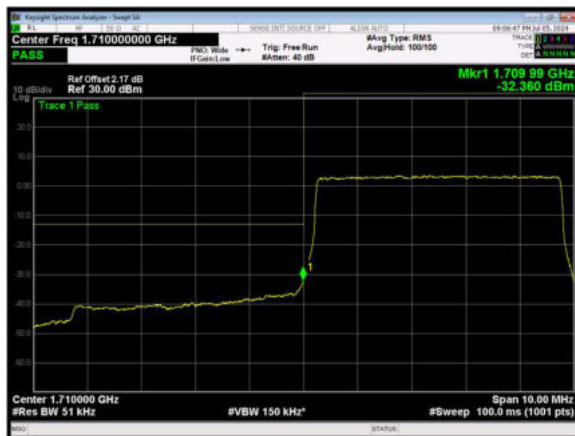
LTE Band 66 QPSK 5MHz CH-Low, 1 RB



LTE Band 66 QPSK 5MHz CH-High, 1 RB



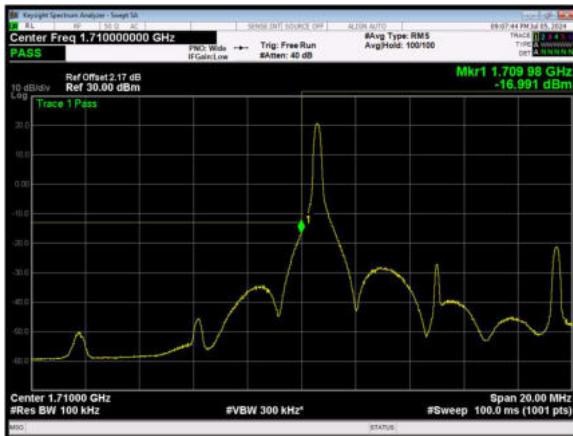
LTE Band 66 QPSK 5MHz CH-Low, 100%RB



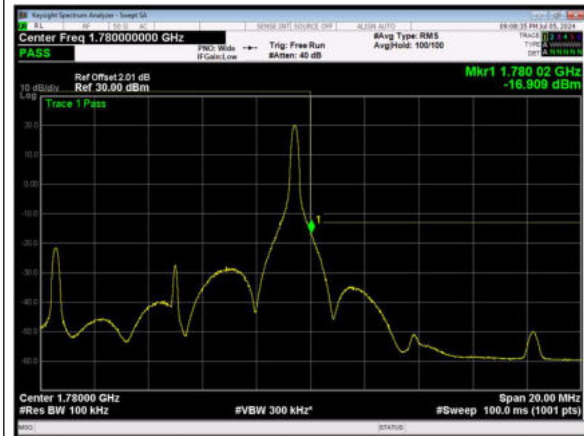
LTE Band 66 QPSK 5MHz CH-High, 100%RB



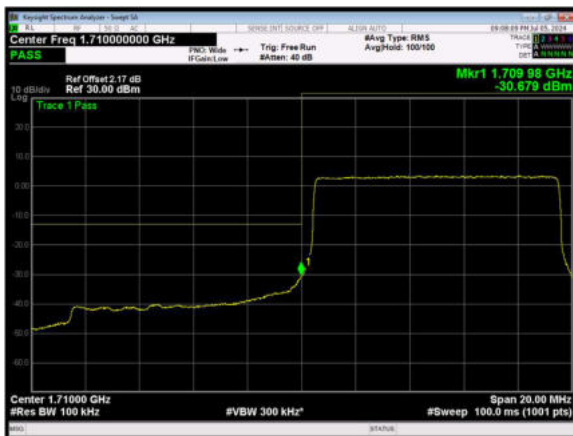
LTE Band 66 QPSK 10MHz CH-Low, 1 RB



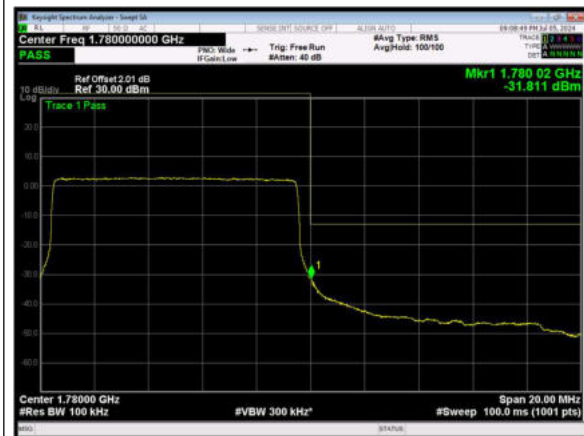
LTE Band 66 QPSK 10MHz CH-High, 1 RB



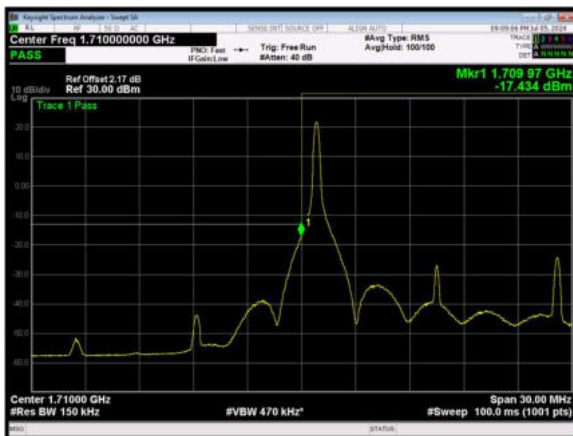
LTE Band 66 QPSK 10MHz CH-Low, 100%RB



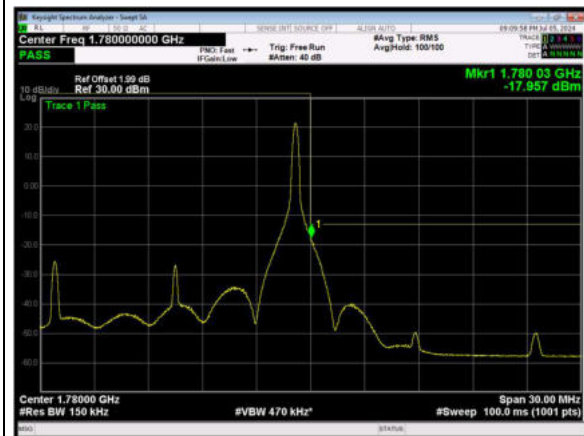
LTE Band 66 QPSK 10MHz CH-High, 100%RB



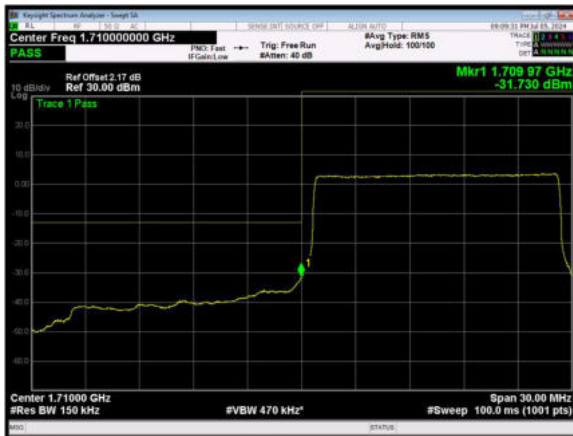
LTE Band 66 QPSK 15MHz CH-Low, 1 RB



LTE Band 66 QPSK 15MHz CH-High, 1 RB



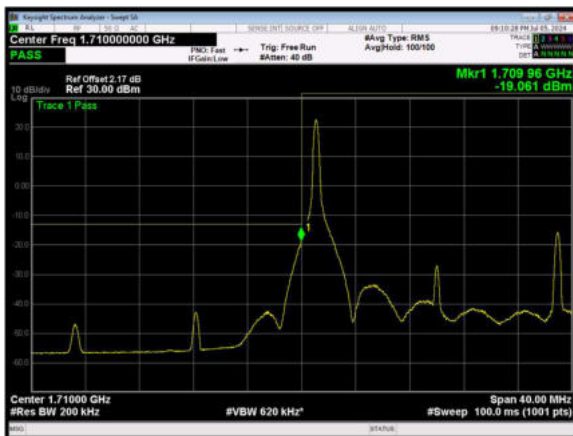
LTE Band 66 QPSK 15MHz CH-Low, 100%RB



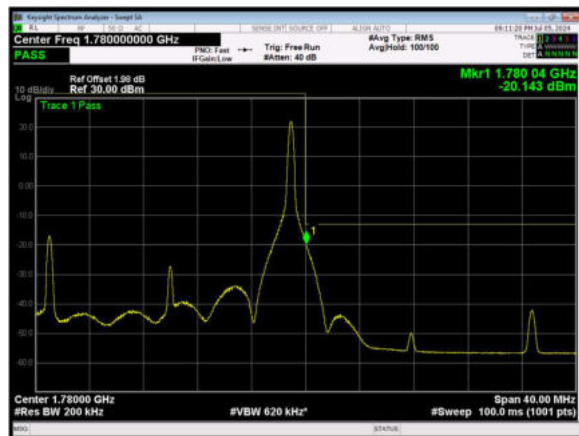
LTE Band 66 QPSK 15MHz CH-High, 100%RB



LTE Band 66 QPSK 20MHz CH-Low, 1 RB



LTE Band 66 QPSK 20MHz CH-High, 1 RB



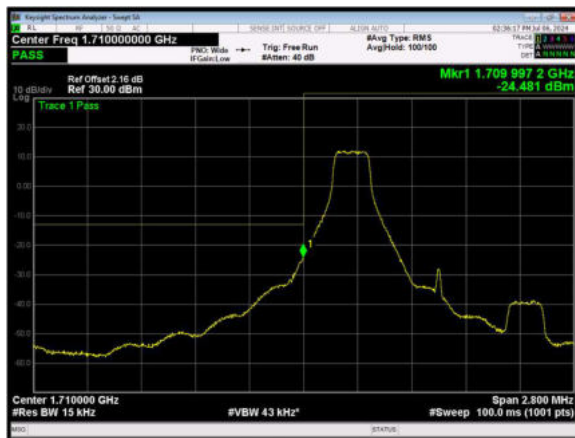
LTE Band 66 QPSK 20MHz CH-Low, 100%RB



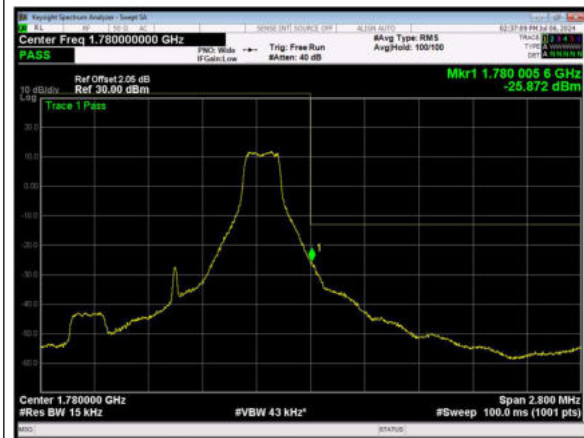
LTE Band 66 QPSK 20MHz CH-High, 100%RB



LTE Band 66 16QAM 1.4MHz CH-Low, 1 RB



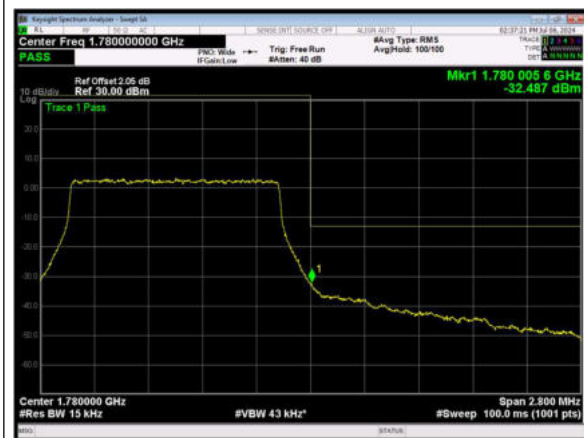
LTE Band 66 16QAM 1.4MHz CH-High, 1 RB



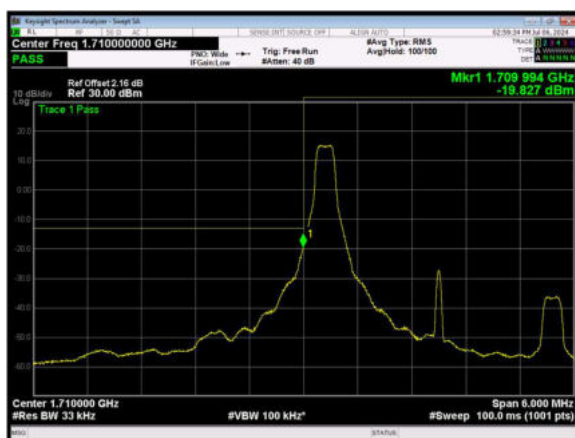
LTE Band 66 16QAM 1.4MHz CH-Low, 100%RB



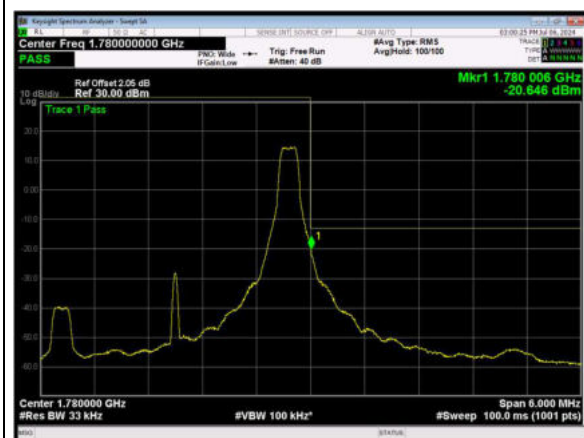
LTE Band 66 16QAM 1.4MHz CH-High, 100%RB



LTE Band 66 16QAM 3MHz CH-Low, 1 RB



LTE Band 66 16QAM 3MHz CH-High, 1 RB



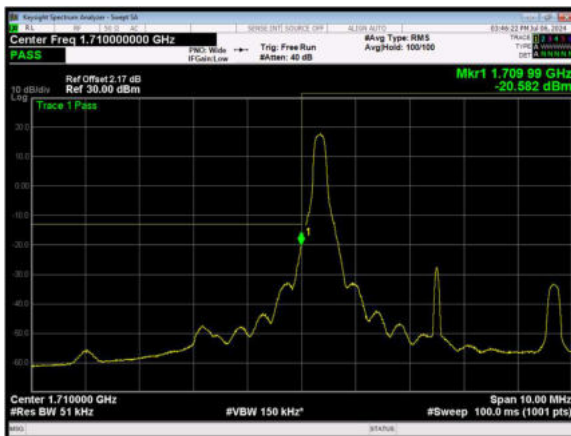
LTE Band 66 16QAM 3MHz CH-Low, 100%RB



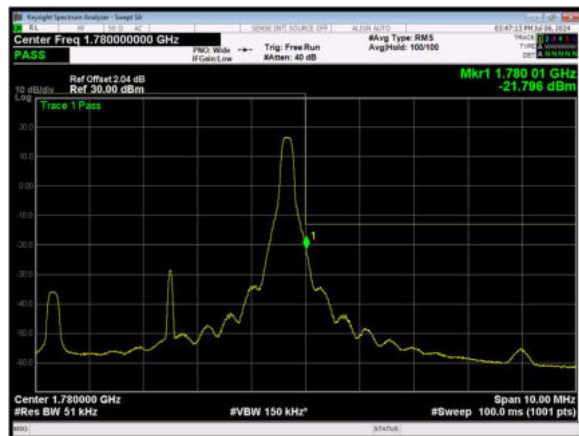
LTE Band 66 16QAM 3MHz CH-High, 100%RB



LTE Band 66 16QAM 5MHz CH-Low, 1 RB



LTE Band 66 16QAM 5MHz CH-High, 1 RB



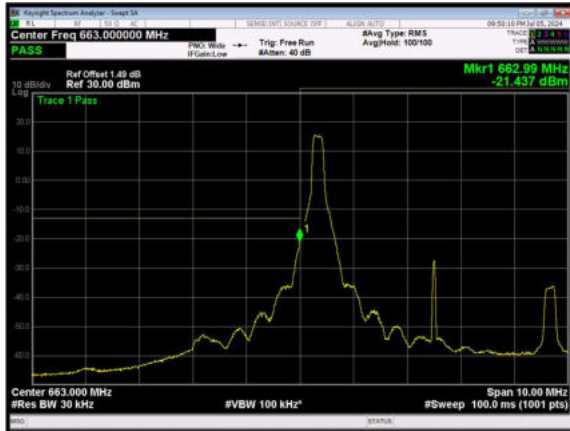
LTE Band 66 16QAM 5MHz CH-Low, 100%RB



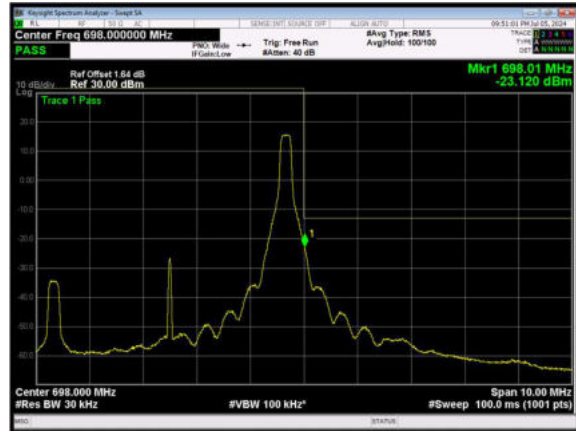
LTE Band 66 16QAM 5MHz CH-High, 100%RB



LTE Band 71 QPSK 5MHz CH-Low, 1 RB



LTE Band 71 QPSK 5MHz CH-High, 1 RB



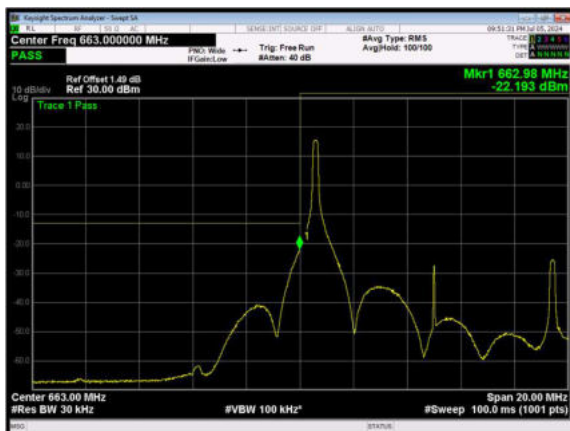
LTE Band 71 QPSK 5MHz CH-Low, 100%RB



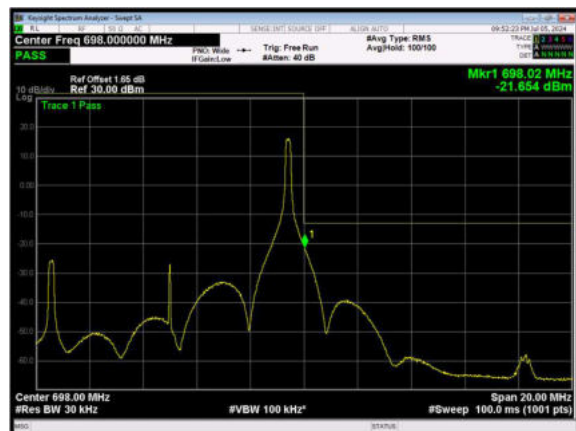
LTE Band 71 QPSK 5MHz CH-High, 100%RB



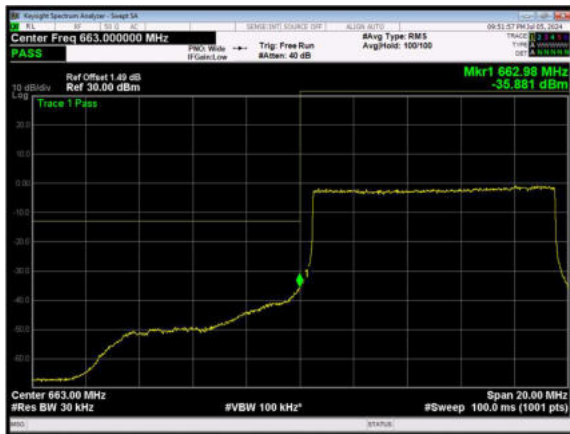
LTE Band 71 QPSK 10MHz CH-Low, 1 RB



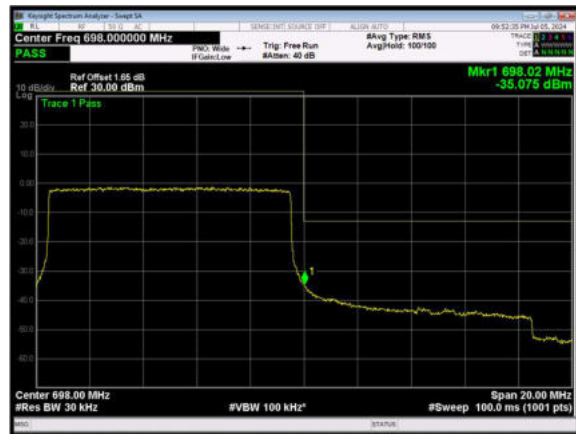
LTE Band 71 QPSK 10MHz CH-High, 1 RB



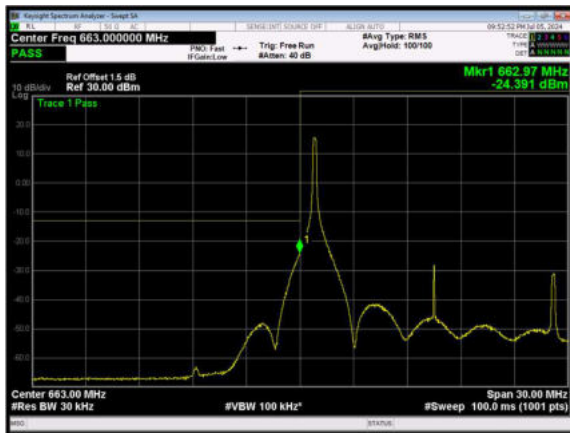
LTE Band 71 QPSK 10MHz CH-Low, 100%RB



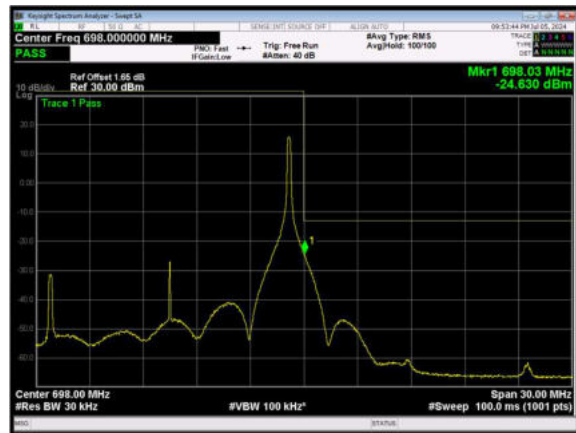
LTE Band 71 QPSK 10MHz CH-High, 100%RB



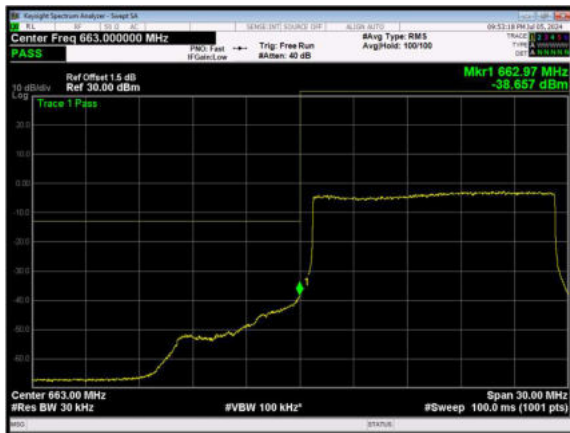
LTE Band 71 QPSK 15MHz CH-Low, 1 RB



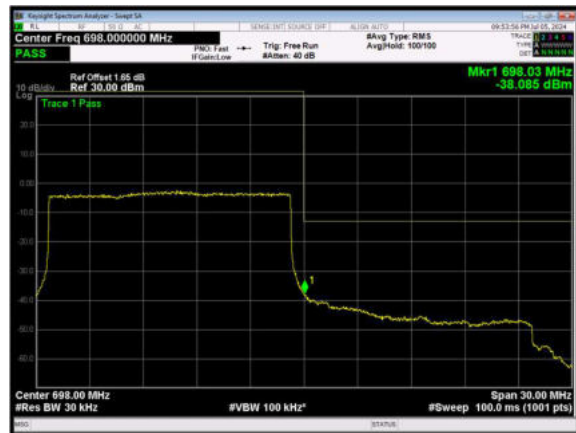
LTE Band 71 QPSK 15MHz CH-High, 1 RB



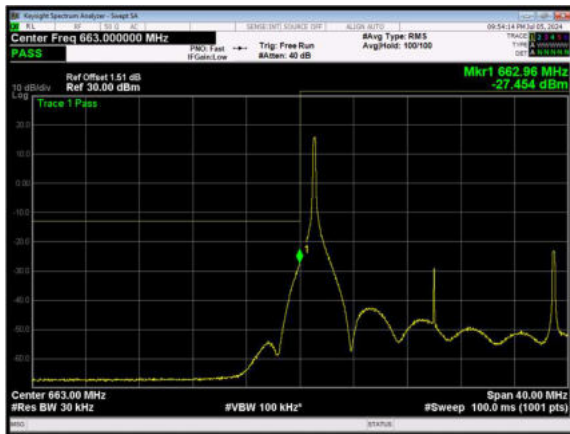
LTE Band 71 QPSK 15MHz CH-Low, 100%RB



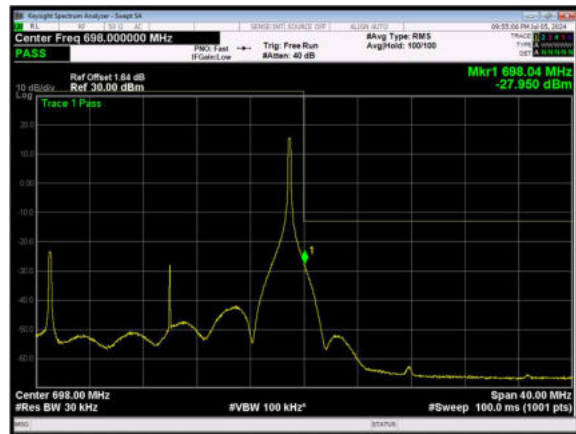
LTE Band 71 QPSK 15MHz CH-High, 100%RB



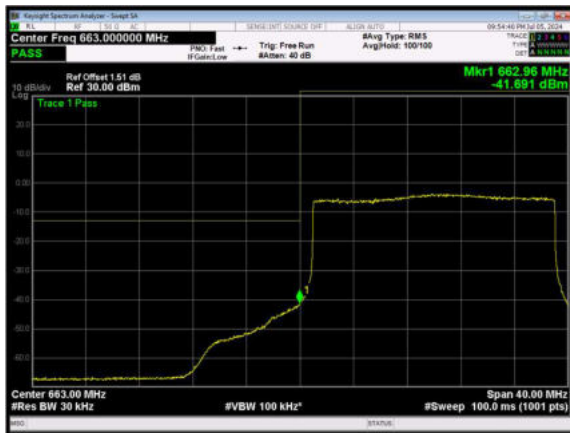
LTE Band 71 QPSK 20MHz CH-Low, 1 RB



LTE Band 71 QPSK 20MHz CH-High, 1 RB



LTE Band 71 QPSK 20MHz CH-Low, 100%RB



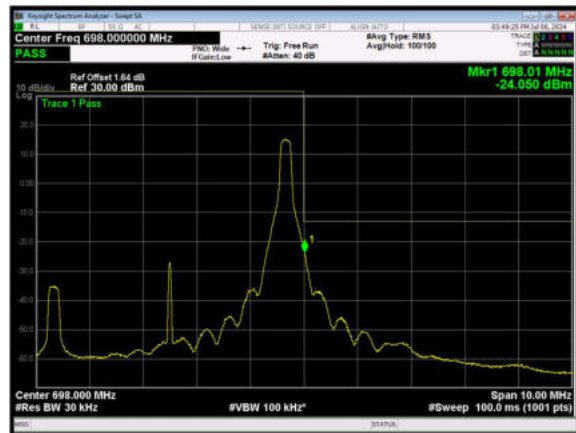
LTE Band 71 QPSK 20MHz CH-High, 100%RB



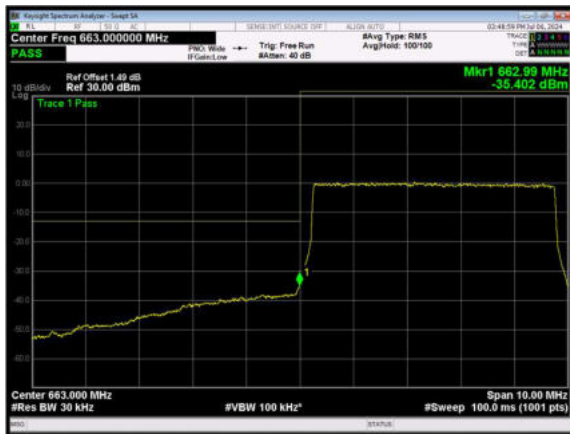
LTE Band 71 16QAM 5MHz CH-Low, 1 RB



LTE Band 71 16QAM 5MHz CH-High, 1 RB



LTE Band 71 16QAM 5MHz CH-Low, 100%RB



LTE Band 71 16QAM 5MHz CH-High, 100%RB



6.4 Peak-to-Average Power Ratio (PAPR)

LTE Band 4						
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	19957	1710.7	5.73	≤13	PASS
		20175	1732.5	5.80	≤13	PASS
		20393	1754.3	5.61	≤13	PASS
	3	19965	1711.5	5.68	≤13	PASS
		20175	1732.5	5.75	≤13	PASS
		20385	1753.5	5.70	≤13	PASS
	5	19975	1712.5	5.76	≤13	PASS
		20175	1732.5	5.68	≤13	PASS
		20375	1752.5	5.54	≤13	PASS
	10	20000	1715	5.71	≤13	PASS
		20175	1732.5	5.66	≤13	PASS
		20350	1750	5.53	≤13	PASS
	15	20025	1717.5	6.03	≤13	PASS
		20175	1732.5	5.97	≤13	PASS
		20325	1747.5	5.90	≤13	PASS
	20	20050	1720	5.68	≤13	PASS
		20175	1732.5	5.68	≤13	PASS
		20300	1745	5.68	≤13	PASS
16QAM	1.4	19957	1710.7	6.37	≤13	PASS
		20175	1732.5	6.59	≤13	PASS
		20393	1754.3	6.52	≤13	PASS
	3	19965	1711.5	6.40	≤13	PASS
		20175	1732.5	6.59	≤13	PASS
		20385	1753.5	6.49	≤13	PASS
	5	19975	1712.5	6.42	≤13	PASS
		20175	1732.5	6.35	≤13	PASS
		20375	1752.5	6.27	≤13	PASS

LTE Band 12				
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	PAPR (dB)
QPSK	1.4	23017	699.7	5.49
		23095	707.5	5.33
		23173	715.3	5.09

	3	23025	700.5	5.46
		23095	707.5	5.31
		23165	714.5	5.22
	5	23035	701.5	5.53
		23095	707.5	5.29
		23155	713.5	5.21
	10	23060	704	5.44
		23095	707.5	5.24
		23130	711	5.30
16QAM	1.4	23017	699.7	6.08
		23095	707.5	6.06
		23173	715.3	5.97
	3	23025	700.5	6.15
		23095	707.5	6.06
		23165	714.5	6.00
	5	23035	701.5	6.18
		23095	707.5	5.90
		23155	713.5	5.92

LTE Band 13				
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	PAPR (dB)
QPSK	5	23205	779.5	5.42
		23230	782	5.12
		23255	784.5	5.34
	10	23230	782	5.37
16QAM	5	23205	779.5	6.07
		23230	782	5.92
		23255	784.5	6.06

LTE Band 66						
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	131979	1710.7	5.66	≤13	PASS
		132322	1745	5.70	≤13	PASS
		132665	1779.3	5.60	≤13	PASS
	3	131987	1711.5	5.66	≤13	PASS
		132322	1745	5.67	≤13	PASS
		132657	1778.5	5.70	≤13	PASS
	5	131997	1712.5	5.68	≤13	PASS

		132322	1745	5.64	≤13	PASS
		132647	1777.5	5.54	≤13	PASS
	10	132022	1715	5.67	≤13	PASS
		132322	1745	5.56	≤13	PASS
		132622	1775	5.56	≤13	PASS
	15	132047	1717.5	6.01	≤13	PASS
		132322	1745	5.94	≤13	PASS
		132597	1772.5	5.85	≤13	PASS
	20	132072	1720	5.69	≤13	PASS
		132322	1745	5.67	≤13	PASS
		132572	1770	5.60	≤13	PASS
16QAM	1.4	131979	1710.7	6.25	≤13	PASS
		132322	1745	6.51	≤13	PASS
		132665	1779.3	6.51	≤13	PASS
	3	131987	1711.5	6.32	≤13	PASS
		132322	1745	6.43	≤13	PASS
		132657	1778.5	6.52	≤13	PASS
	5	131997	1712.5	6.26	≤13	PASS
		132322	1745	6.29	≤13	PASS
		132647	1777.5	6.41	≤13	PASS

LTE Band 71				
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	PAPR (dB)
QPSK	5	133147	665.5	5.71
		133297	680.5	5.97
		133447	695.5	5.81
	10	133172	668	5.88
		133297	680.5	5.94
		133422	693	5.81
	15	133197	670.5	5.98
		133297	680.5	6.31
		133397	690.5	6.09
	20	133222	673	5.58
		133322	683	6.00
		133372	688	5.87
16QAM	5	133147	665.5	6.38
		133297	680.5	6.55
		133447	695.5	6.54

6.5 Frequency Stability

LTE Band4						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	13.55	9.06	0.00782	0.00523	PASS
Extreme (50°C)		7.00	13.52	0.00404	0.00780	PASS
Extreme (40°C)		11.39	14.21	0.00658	0.00820	PASS
Extreme (30°C)		13.41	17.48	0.00774	0.01009	PASS
Extreme (20°C)		10.25	3.39	0.00592	0.00196	PASS
Extreme (10°C)		13.63	16.42	0.00787	0.00948	PASS
Extreme (0°C)		2.94	16.14	0.00170	0.00932	PASS
Extreme (-10°C)		14.81	12.98	0.00855	0.00749	PASS
Extreme (-20°C)		12.46	15.47	0.00719	0.00893	PASS
Extreme (-30°C)		14.47	4.04	0.00835	0.00233	PASS
25°C	LV	5.87	16.09	0.00339	0.00929	PASS
	HV	17.50	10.66	0.01010	0.00615	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	15.30	6.54	0.00883	0.00377	PASS
Extreme (50°C)		13.35	9.93	0.00771	0.00573	PASS
Extreme (40°C)		7.30	14.04	0.00421	0.00810	PASS
Extreme (30°C)		13.19	5.19	0.00762	0.00300	PASS
Extreme (20°C)		11.75	8.76	0.00678	0.00506	PASS
Extreme (10°C)		9.62	16.51	0.00555	0.00953	PASS
Extreme (0°C)		5.94	13.77	0.00343	0.00795	PASS
Extreme (-10°C)		12.61	8.76	0.00728	0.00506	PASS
Extreme (-20°C)		11.47	11.15	0.00662	0.00644	PASS
Extreme (-30°C)		11.62	10.67	0.00671	0.00616	PASS
25°C	LV	13.64	15.74	0.00787	0.00908	PASS
	HV	16.30	2.32	0.00941	0.00134	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	15.49	7.09	0.00894	0.00409	PASS

Extreme (50℃)		9.19	2.59	0.00530	0.00149	PASS
Extreme (40℃)		6.21	8.73	0.00358	0.00504	PASS
Extreme (30℃)		10.63	3.22	0.00614	0.00186	PASS
Extreme (20℃)		6.55	9.40	0.00378	0.00542	PASS
Extreme (10℃)		16.16	15.61	0.00933	0.00901	PASS
Extreme (0℃)		14.25	5.08	0.00822	0.00293	PASS
Extreme (-10℃)		4.30	17.71	0.00248	0.01022	PASS
Extreme (-20℃)		5.03	6.57	0.00290	0.00379	PASS
Extreme (-30℃)		10.74	17.49	0.00620	0.01009	PASS
25℃	LV	9.79	2.68	0.00565	0.00155	PASS
	HV	6.28	6.73	0.00363	0.00389	PASS
Condition		Freq.Error (Hz)		Frequency Stability (ppm)		Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	QPSK		QPSK		
Normal (25℃)	Normal	12.13		0.00700		PASS
Extreme (50℃)		3.40		0.00196		PASS
Extreme (40℃)		3.10		0.00179		PASS
Extreme (30℃)		10.54		0.00608		PASS
Extreme (20℃)		7.40		0.00427		PASS
Extreme (10℃)		14.85		0.00857		PASS
Extreme (0℃)		11.38		0.00657		PASS
Extreme (-10℃)		11.60		0.00670		PASS
Extreme (-20℃)		9.44		0.00545		PASS
Extreme (-30℃)	9.53		0.00550		PASS	
25℃	LV	1.86		0.00108		PASS
	HV	4.18		0.00241		PASS
Condition		Freq.Error (Hz)		Frequency Stability (ppm)		Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	QPSK		QPSK		
Normal (25℃)	Normal	1.26		0.00073		PASS
Extreme (50℃)		7.07		0.00408		PASS
Extreme (40℃)		7.76		0.00448		PASS
Extreme (30℃)		10.79		0.00623		PASS
Extreme (20℃)		17.20		0.00992		PASS
Extreme (10℃)		8.31		0.00480		PASS
Extreme (0℃)		4.21		0.00243		PASS
Extreme (-10℃)		15.58		0.00899		PASS
Extreme (-20℃)		8.36		0.00483		PASS
Extreme (-30℃)	4.57		0.00264		PASS	

25℃	LV	12.55	0.00725	PASS
	HV	13.98	0.00807	PASS
Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz			
Temperature	Voltage	QPSK	QPSK	
Normal (25℃)	Normal	2.43	0.00140	PASS
Extreme (50℃)		11.07	0.00639	PASS
Extreme (40℃)		12.27	0.00708	PASS
Extreme (30℃)		7.77	0.00448	PASS
Extreme (20℃)		7.92	0.00457	PASS
Extreme (10℃)		4.22	0.00244	PASS
Extreme (0℃)		11.10	0.00641	PASS
Extreme (-10℃)		14.65	0.00846	PASS
Extreme (-20℃)		13.84	0.00799	PASS
Extreme (-30℃)		12.39	0.00715	PASS
25℃	LV	17.51	0.01011	PASS
	HV	17.18	0.00992	PASS

LTE Band 12						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	7.77	4.17	0.01054	0.00566	PASS
Extreme (50℃)		5.92	5.57	0.00802	0.00755	PASS
Extreme (40℃)		17.58	2.61	0.02384	0.00354	PASS
Extreme (30℃)		7.24	9.39	0.00982	0.01273	PASS
Extreme (20℃)		13.85	6.18	0.01879	0.00838	PASS
Extreme (10℃)		3.68	2.94	0.00499	0.00398	PASS
Extreme (0℃)		16.07	17.58	0.02180	0.02383	PASS
Extreme (-10℃)		16.66	15.43	0.02259	0.02092	PASS
Extreme (-20℃)		16.52	6.63	0.02240	0.00899	PASS
Extreme (-30℃)		2.78	3.87	0.00377	0.00525	PASS
25℃	LV	3.23	6.02	0.00438	0.00816	PASS
	HV	17.40	14.38	0.02360	0.01950	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	10.09	2.07	0.01368	0.00280	PASS
Extreme (50℃)		3.66	8.81	0.00496	0.01195	PASS

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Extreme (40°C)		10.14	5.82	0.01375	0.00789	PASS
Extreme (30°C)		3.70	15.07	0.00502	0.02043	PASS
Extreme (20°C)		16.86	7.86	0.02286	0.01066	PASS
Extreme (10°C)		11.95	11.26	0.01621	0.01527	PASS
Extreme (0°C)		16.81	4.57	0.02280	0.00620	PASS
Extreme (-10°C)		1.76	3.26	0.00238	0.00442	PASS
Extreme (-20°C)		6.01	3.44	0.00815	0.00467	PASS
Extreme (-30°C)		9.23	10.89	0.01252	0.01477	PASS
25°C	LV	8.31	12.84	0.01127	0.01741	PASS
	HV	16.36	10.50	0.02218	0.01423	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	16.48	17.57	0.02234	0.02383	PASS
Extreme (50°C)		8.08	5.15	0.01095	0.00698	PASS
Extreme (40°C)		16.87	8.38	0.02287	0.01136	PASS
Extreme (30°C)		5.30	3.99	0.00718	0.00541	PASS
Extreme (20°C)		12.25	4.61	0.01661	0.00626	PASS
Extreme (10°C)		11.87	1.61	0.01610	0.00219	PASS
Extreme (0°C)		9.15	13.88	0.01240	0.01882	PASS
Extreme (-10°C)		13.99	6.81	0.01897	0.00923	PASS
Extreme (-20°C)		12.95	8.79	0.01756	0.01192	PASS
Extreme (-30°C)		11.37	17.80	0.01542	0.02414	PASS
25°C	LV	17.39	16.00	0.02357	0.02170	PASS
	HV	13.74	15.31	0.01863	0.02076	PASS
Condition		Freq.Error (Hz)	Frequency Stability (ppm)		Verdict	
BANDWIDTH	10MHz					
Temperature	Voltage	QPSK	QPSK			
Normal (25°C)	Normal	6.70	0.00908		PASS	
Extreme (50°C)		5.41	0.00733		PASS	
Extreme (40°C)		1.44	0.00196		PASS	
Extreme (30°C)		1.37	0.00186		PASS	
Extreme (20°C)		4.93	0.00668		PASS	
Extreme (10°C)		2.99	0.00405		PASS	
Extreme (0°C)		12.35	0.01675		PASS	
Extreme (-10°C)		2.39	0.00323		PASS	
Extreme (-20°C)		9.15	0.01240		PASS	
Extreme (-30°C)		15.82	0.02146		PASS	
25°C	LV	8.32	0.01128		PASS	
	HV	3.25	0.00440		PASS	

LTE Band 13						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	7.92	14.67	0.01054	0.01954	PASS
Extreme (50°C)		12.39	2.85	0.01649	0.00380	PASS
Extreme (40°C)		14.39	13.21	0.01915	0.01759	PASS
Extreme (30°C)		11.23	12.60	0.01496	0.01678	PASS
Extreme (20°C)		4.65	5.38	0.00620	0.00717	PASS
Extreme (10°C)		3.35	10.05	0.00446	0.01338	PASS
Extreme (0°C)		2.28	1.68	0.00303	0.00224	PASS
Extreme (-10°C)		12.08	3.93	0.01609	0.00523	PASS
Extreme (-20°C)		3.28	4.31	0.00437	0.00574	PASS
Extreme (-30°C)		8.38	10.50	0.01115	0.01399	PASS
25°C	LV	17.19	3.51	0.02289	0.00467	PASS
	HV	16.43	15.44	0.02188	0.02055	PASS
Condition		Freq.Error (Hz)		Frequency Stability (ppm)		Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	QPSK		QPSK		
Normal (25°C)	Normal	4.98		0.00664		PASS
Extreme (50°C)		16.39		0.02183		PASS
Extreme (40°C)		4.24		0.00565		PASS
Extreme (30°C)		3.88		0.00516		PASS
Extreme (20°C)		4.13		0.00550		PASS
Extreme (10°C)		11.60		0.01545		PASS
Extreme (0°C)		6.73		0.00896		PASS
Extreme (-10°C)		17.85		0.02377		PASS
Extreme (-20°C)		6.79		0.00905		PASS
Extreme (-30°C)		14.19		0.01890		PASS
25°C	LV	14.99		0.01996		PASS
	HV	17.18		0.02288		PASS

LTE Band 66						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	15.06	13.78	0.00863	0.00790	PASS
Extreme (50℃)		4.26	13.45	0.00244	0.00771	PASS
Extreme (40℃)		7.21	5.73	0.00413	0.00328	PASS
Extreme (30℃)		13.75	10.70	0.00788	0.00613	PASS
Extreme (20℃)		15.61	17.57	0.00895	0.01007	PASS
Extreme (10℃)		12.00	16.53	0.00687	0.00947	PASS
Extreme (0℃)		12.95	17.84	0.00742	0.01022	PASS
Extreme (-10℃)		9.29	10.09	0.00533	0.00578	PASS
Extreme (-20℃)		8.62	15.18	0.00494	0.00870	PASS
Extreme (-30℃)		12.63	12.82	0.00724	0.00735	PASS
25℃	LV	7.08	1.42	0.00406	0.00082	PASS
	HV	12.06	8.55	0.00691	0.00490	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	4.73	7.54	0.00271	0.00432	PASS
Extreme (50℃)		4.23	1.26	0.00242	0.00072	PASS
Extreme (40℃)		15.55	13.64	0.00891	0.00782	PASS
Extreme (30℃)		1.47	5.51	0.00084	0.00316	PASS
Extreme (20℃)		4.66	9.18	0.00267	0.00526	PASS
Extreme (10℃)		11.51	9.48	0.00660	0.00543	PASS
Extreme (0℃)		14.02	10.48	0.00803	0.00601	PASS
Extreme (-10℃)		13.23	17.73	0.00758	0.01016	PASS
Extreme (-20℃)		12.22	16.25	0.00700	0.00931	PASS
Extreme (-30℃)		13.88	3.16	0.00796	0.00181	PASS
25℃	LV	12.31	10.57	0.00706	0.00606	PASS
	HV	6.06	3.12	0.00347	0.00179	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	12.41	8.33	0.00711	0.00478	PASS
Extreme (50℃)		7.37	16.01	0.00423	0.00917	PASS
Extreme (40℃)		4.14	13.13	0.00237	0.00752	PASS
Extreme (30℃)		6.83	8.59	0.00391	0.00492	PASS
Extreme (20℃)		3.38	3.92	0.00193	0.00225	PASS

Extreme (10℃)		13.43	6.69	0.00770	0.00384	PASS
Extreme (0℃)		13.19	11.61	0.00756	0.00666	PASS
Extreme (-10℃)		3.74	12.88	0.00215	0.00738	PASS
Extreme (-20℃)		12.56	6.38	0.00720	0.00366	PASS
Extreme (-30℃)		8.32	16.89	0.00477	0.00968	PASS
25℃	LV	14.59	2.57	0.00836	0.00147	PASS
	HV	6.35	3.75	0.00364	0.00215	PASS
Condition		Freq.Error (Hz)		Frequency Stability (ppm)		Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	QPSK		QPSK		
Normal (25℃)	Normal	3.44		0.00197		PASS
Extreme (50℃)		2.51		0.00144		PASS
Extreme (40℃)		15.98		0.00916		PASS
Extreme (30℃)		8.11		0.00465		PASS
Extreme (20℃)		5.58		0.00320		PASS
Extreme (10℃)		3.22		0.00184		PASS
Extreme (0℃)		8.78		0.00503		PASS
Extreme (-10℃)		16.99		0.00974		PASS
Extreme (-20℃)		8.60		0.00493		PASS
Extreme (-30℃)		1.73		0.00099		PASS
25℃	LV	1.54		0.00088		PASS
	HV	11.63		0.00666		PASS
Condition		Freq.Error (Hz)		Frequency Stability (ppm)		Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	QPSK		QPSK		
Normal (25℃)	Normal	15.66		0.00897		PASS
Extreme (50℃)		11.29		0.00647		PASS
Extreme (40℃)		17.61		0.01009		PASS
Extreme (30℃)		13.01		0.00745		PASS
Extreme (20℃)		17.44		0.01000		PASS
Extreme (10℃)		16.98		0.00973		PASS
Extreme (0℃)		16.70		0.00957		PASS
Extreme (-10℃)		4.17		0.00239		PASS
Extreme (-20℃)		8.76		0.00502		PASS
Extreme (-30℃)		5.65		0.00324		PASS
25℃	LV	5.38		0.00309		PASS
	HV	15.78		0.00904		PASS
Condition		Freq.Error (Hz)		Frequency Stability (ppm)		Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	QPSK		QPSK		

Normal (25°C)	Normal	6.41	0.00367	PASS
Extreme (50°C)		15.50	0.00888	PASS
Extreme (40°C)		11.45	0.00656	PASS
Extreme (30°C)		8.42	0.00482	PASS
Extreme (20°C)		16.34	0.00936	PASS
Extreme (10°C)		13.66	0.00783	PASS
Extreme (0°C)		16.31	0.00935	PASS
Extreme (-10°C)		8.23	0.00472	PASS
Extreme (-20°C)		5.60	0.00321	PASS
Extreme (-30°C)		1.11	0.00064	PASS
25°C	LV	17.26	0.00989	PASS
	HV	12.20	0.00699	PASS

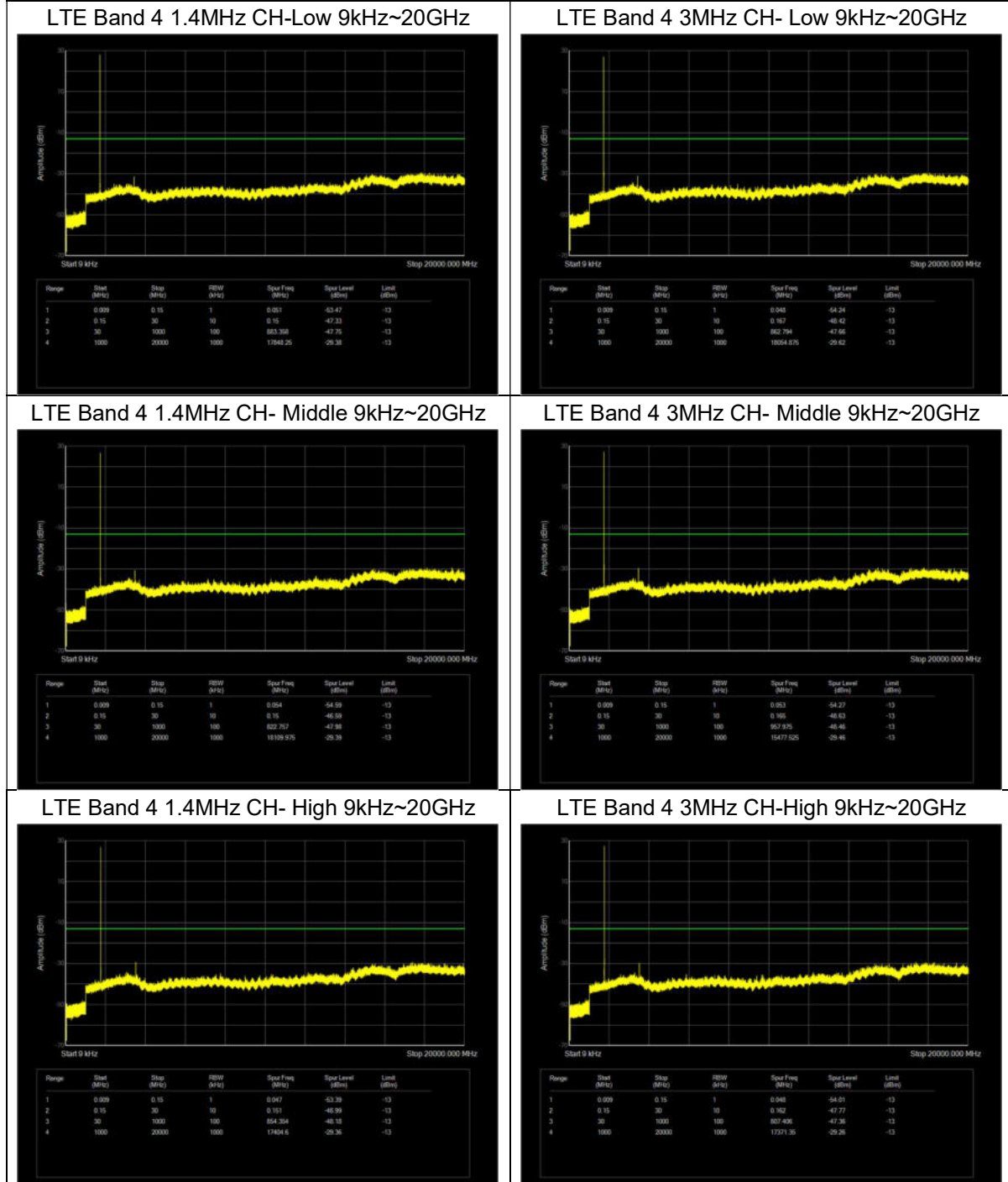
LTE Band 71						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	5.35	3.73	0.00307	0.00214	PASS
Extreme (50℃)		8.03	8.12	0.00460	0.00466	PASS
Extreme (40℃)		3.18	7.21	0.00182	0.00413	PASS
Extreme (30℃)		12.62	1.54	0.00723	0.00088	PASS
Extreme (20℃)		14.37	4.08	0.00824	0.00234	PASS
Extreme (10℃)		10.82	12.65	0.00620	0.00725	PASS
Extreme (0℃)		1.74	11.53	0.00099	0.00661	PASS
Extreme (-10℃)		16.86	8.57	0.00966	0.00491	PASS
Extreme (-20℃)		4.27	16.63	0.00245	0.00953	PASS
Extreme (-30℃)		15.96	1.27	0.00915	0.00073	PASS
25℃	LV	3.37	4.31	0.00193	0.00247	PASS
	HV	2.83	3.02	0.00162	0.00173	PASS
Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict		
BANDWIDTH	10MHz					
Temperature	Voltage	QPSK	QPSK			
Normal (25℃)	Normal	15.82	0.00906	PASS		
Extreme (50℃)		10.44	0.00598	PASS		
Extreme (40℃)		13.48	0.00773	PASS		
Extreme (30℃)		5.72	0.00328	PASS		
Extreme (20℃)		5.86	0.00336	PASS		
Extreme (10℃)		2.72	0.00156	PASS		
Extreme (0℃)		3.88	0.00222	PASS		

Extreme (-10℃)		12.87	0.00738	PASS
Extreme (-20℃)		17.84	0.01022	PASS
Extreme (-30℃)		13.10	0.00751	PASS
25℃	LV	12.12	0.00694	PASS
	HV	12.73	0.00730	PASS
Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz			
Temperature	Voltage	QPSK	QPSK	
Normal (25℃)	Normal	15.43	0.00884	PASS
Extreme (50℃)		7.90	0.00453	PASS
Extreme (40℃)		12.51	0.00717	PASS
Extreme (30℃)		17.68	0.01013	PASS
Extreme (20℃)		3.32	0.00190	PASS
Extreme (10℃)		9.68	0.00555	PASS
Extreme (0℃)		5.72	0.00328	PASS
Extreme (-10℃)		13.31	0.00763	PASS
Extreme (-20℃)		11.11	0.00637	PASS
Extreme (-30℃)		9.88	0.00566	PASS
25℃	LV	2.15	0.00123	PASS
	HV	1.03	0.00059	PASS
Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz			
Temperature	Voltage	QPSK	QPSK	
Normal (25℃)	Normal	6.82	0.00391	PASS
Extreme (50℃)		8.82	0.00506	PASS
Extreme (40℃)		13.97	0.00800	PASS
Extreme (30℃)		11.49	0.00659	PASS
Extreme (20℃)		8.89	0.00509	PASS
Extreme (10℃)		5.18	0.00297	PASS
Extreme (0℃)		5.31	0.00304	PASS
Extreme (-10℃)		7.43	0.00426	PASS
Extreme (-20℃)		13.31	0.00763	PASS
Extreme (-30℃)		17.33	0.00993	PASS
25℃	LV	2.61	0.00150	PASS
	HV	17.98	0.01031	PASS

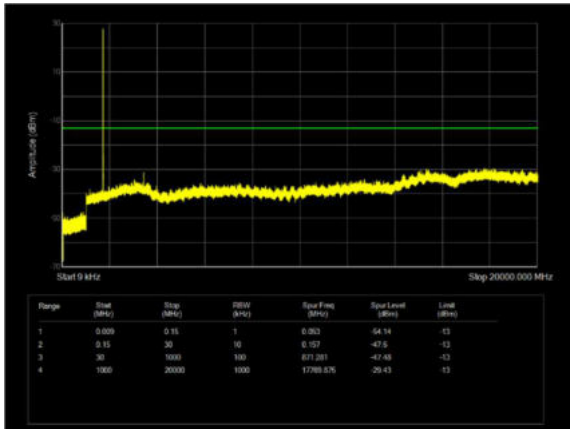
6.6 Spurious Emissions at Antenna Terminals

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

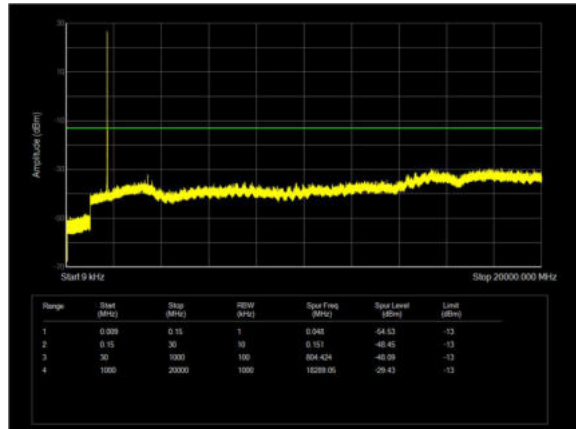
The signal beyond the limit is carrier.



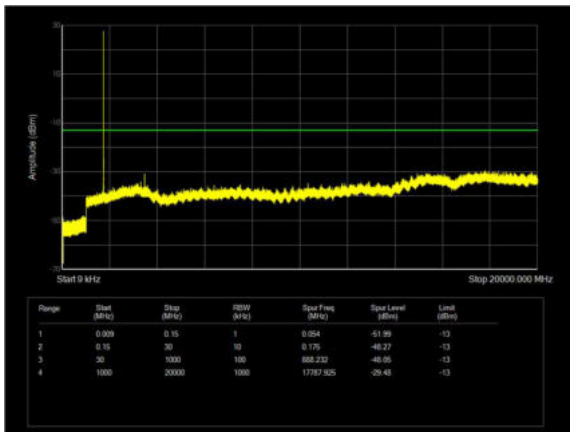
LTE Band 4 5MHz CH- Low 9kHz~20GHz



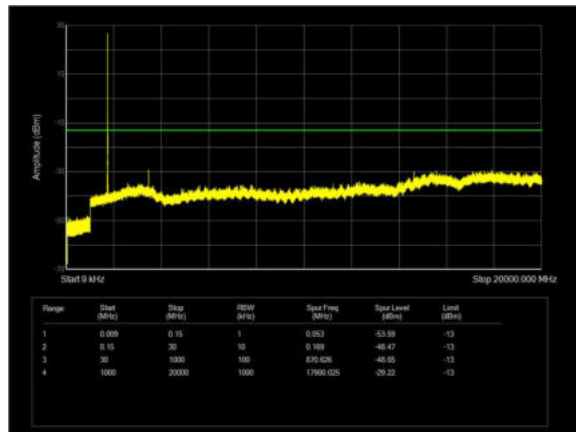
LTE Band 4 10MHz CH-Low 9kHz~20GHz



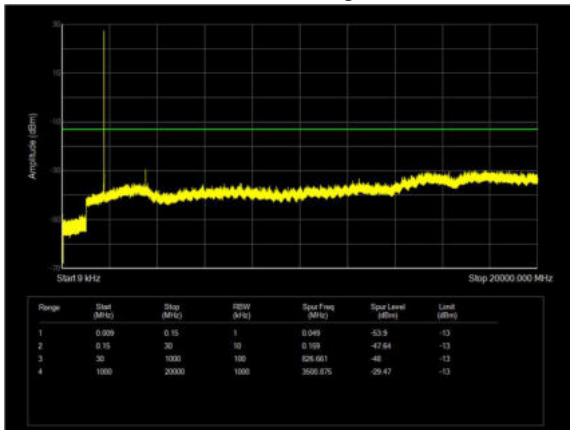
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



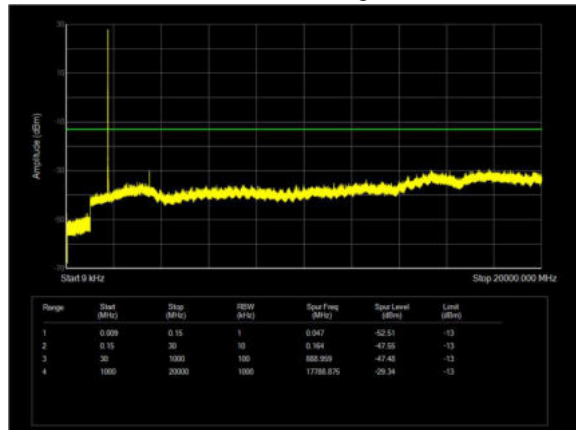
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



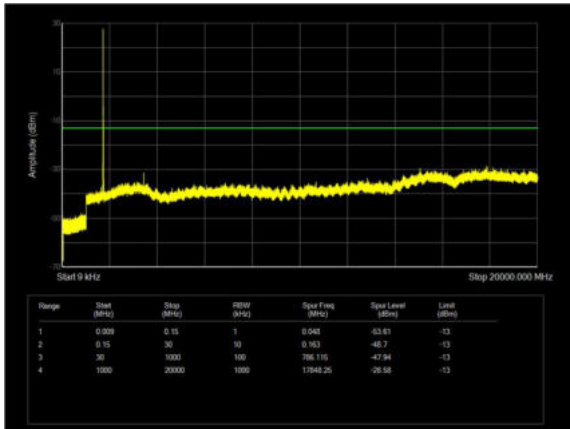
LTE Band 4 5MHz CH-High 9kHz~20GHz



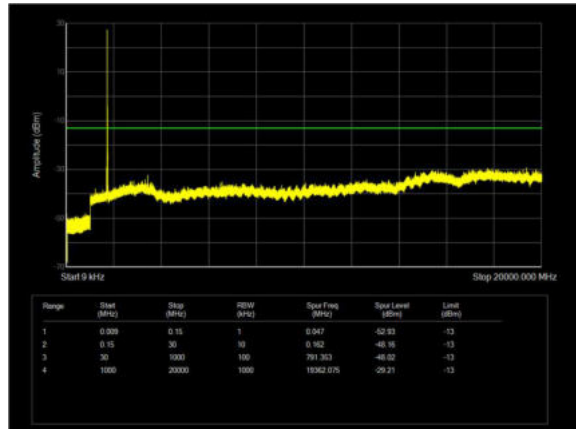
LTE Band 4 10MHz CH- High 9kHz~20GHz



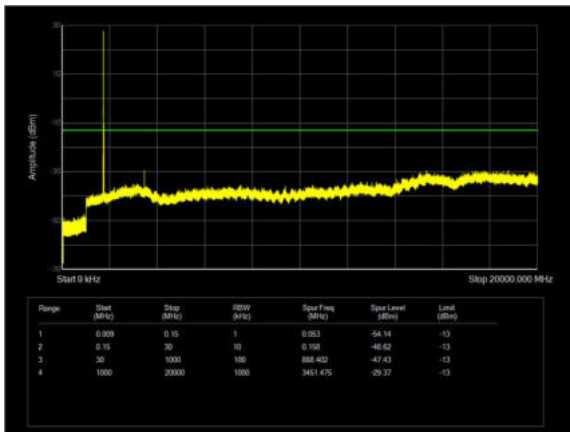
LTE Band 4 15MHz CH- Low 9kHz~20GHz



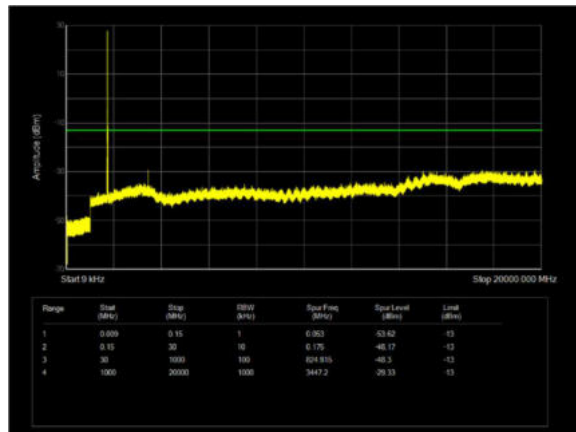
LTE Band 4 20MHz CH-Low 9kHz~20GHz



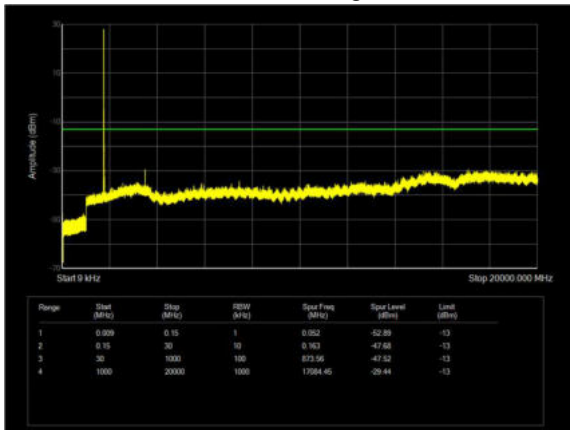
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



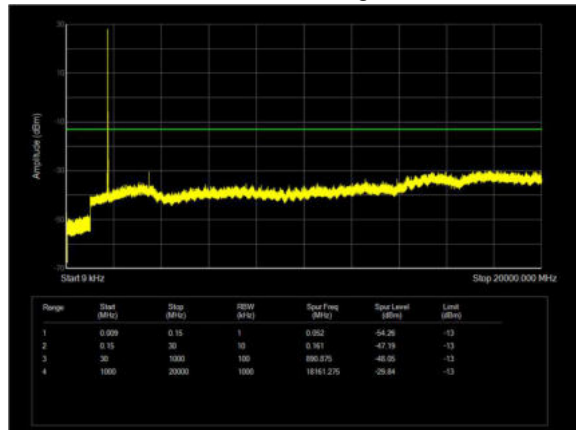
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



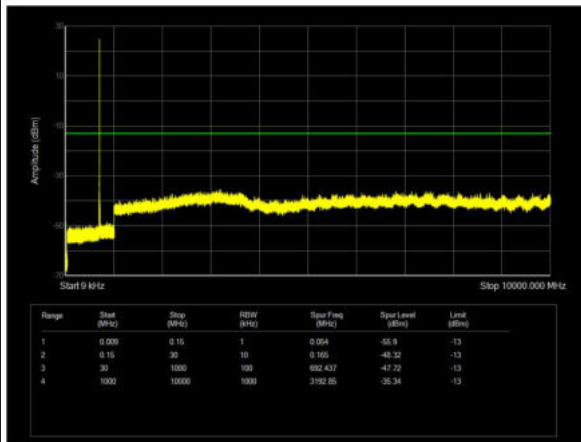
LTE Band 4 15MHz CH-High 9kHz~20GHz



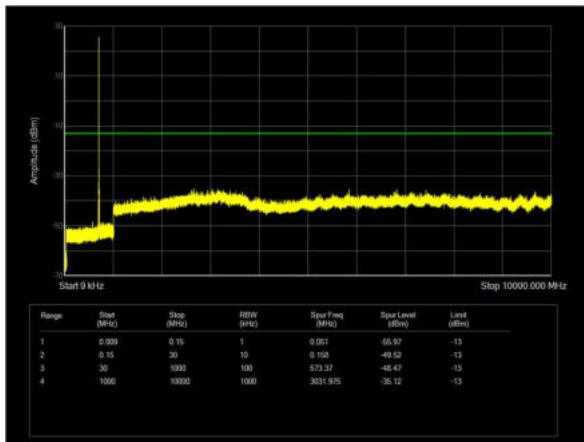
LTE Band 4 20MHz CH- High 9kHz~20GHz



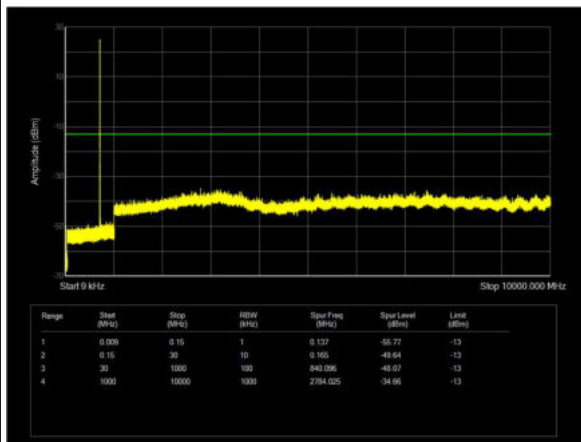
LTE Band 12 1.4MHz CH-Low 9kHz ~10GHz



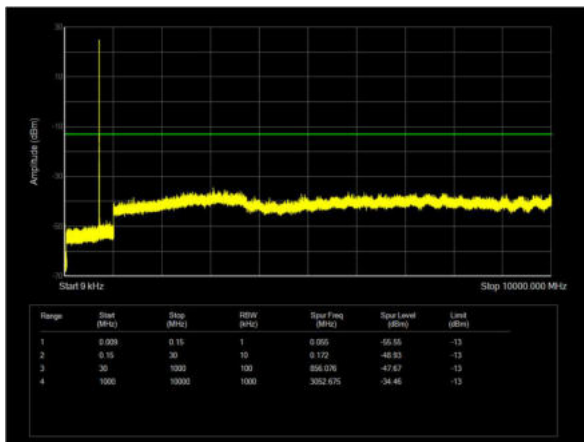
LTE Band 12 3MHz CH-Low 9kHz ~10GHz



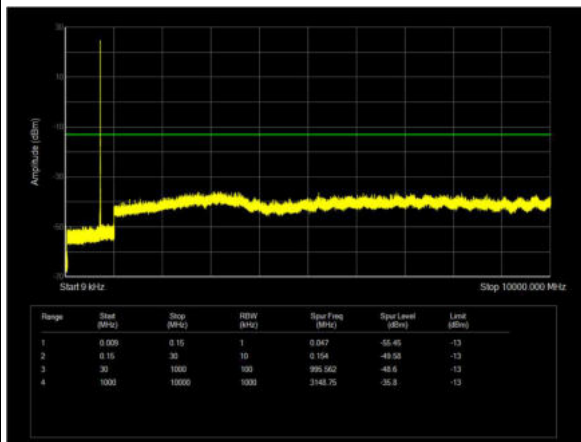
LTE Band 12 1.4MHz CH- Middle 9kHz ~10GHz



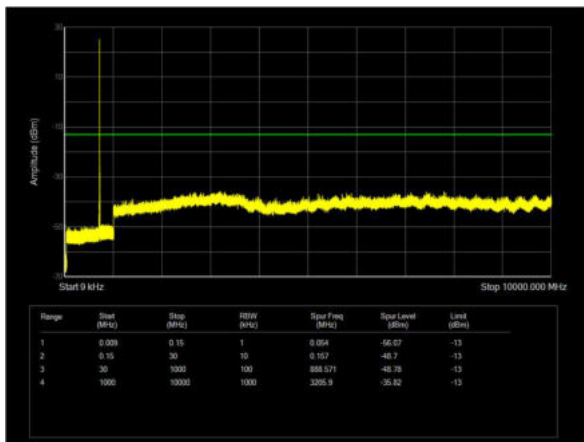
LTE Band 12 3MHz CH- Middle 9kHz ~10GHz



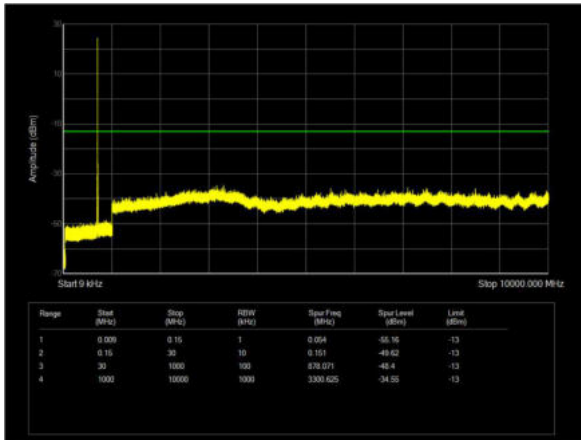
LTE Band 12 1.4MHz CH-High 9kHz ~10GHz



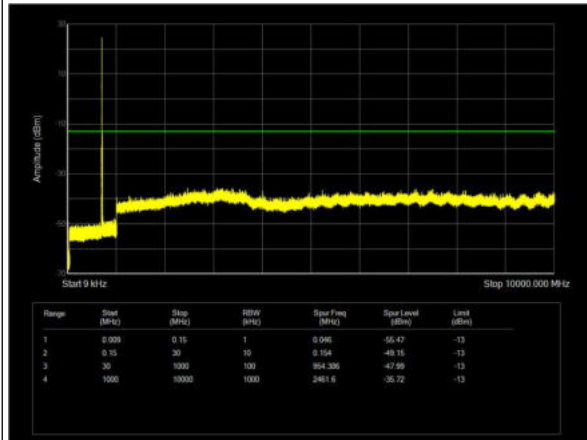
LTE Band 12 3MHz CH-High 9kHz ~10GHz



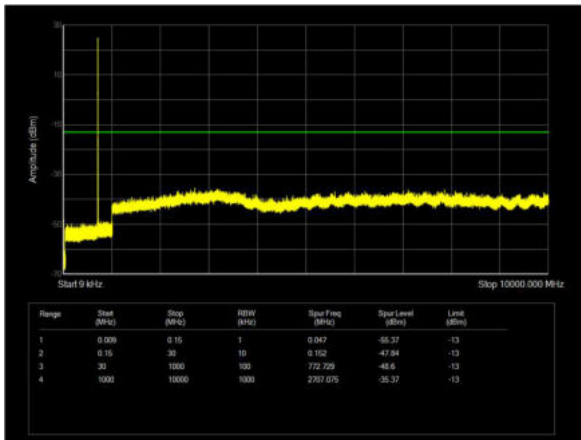
LTE Band 12 5MHz CH-Low 9kHz ~10GHz



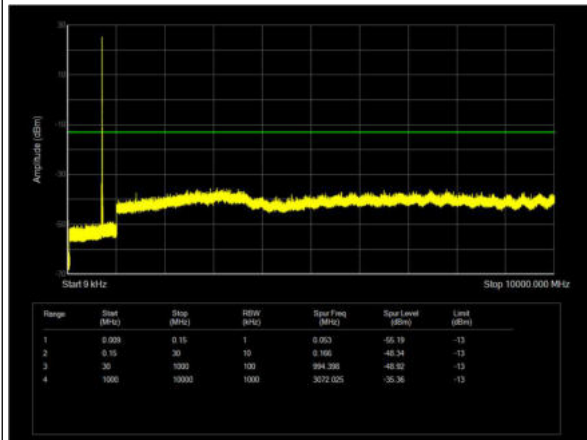
LTE Band 12 10MHz CH-Low 9kHz ~10GHz



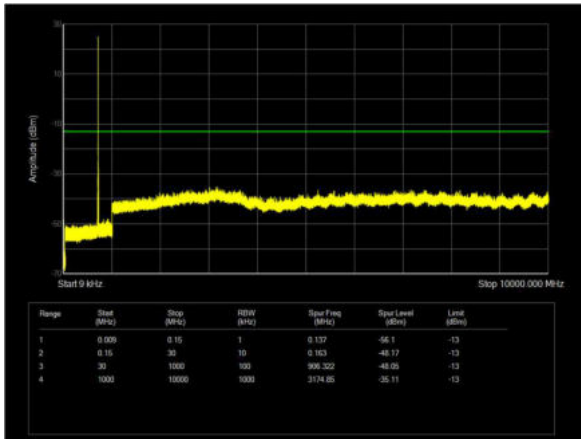
LTE Band 12 5MHz CH- Middle 9kHz ~10GHz



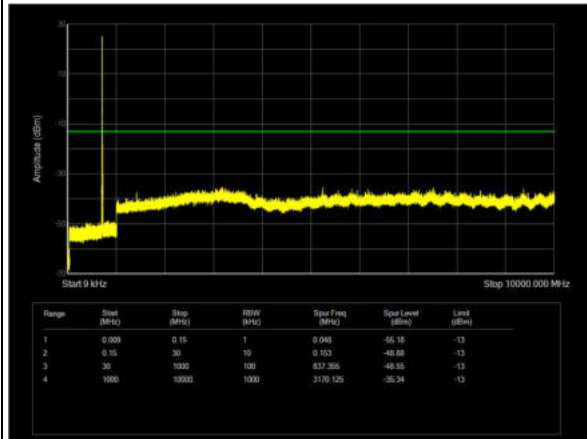
LTE Band 12 10MHz CH- Middle 9kHz ~10GHz



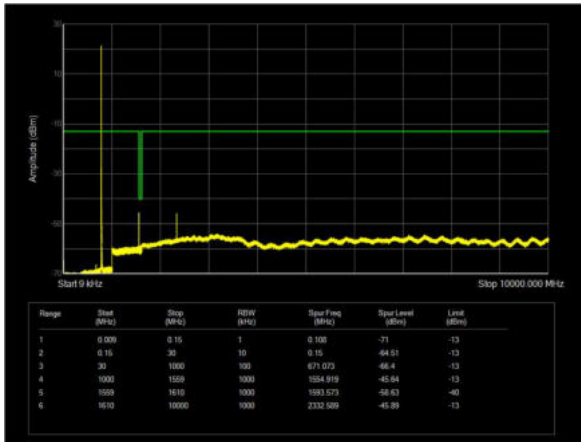
LTE Band 12 5MHz CH-High 9kHz ~10GHz



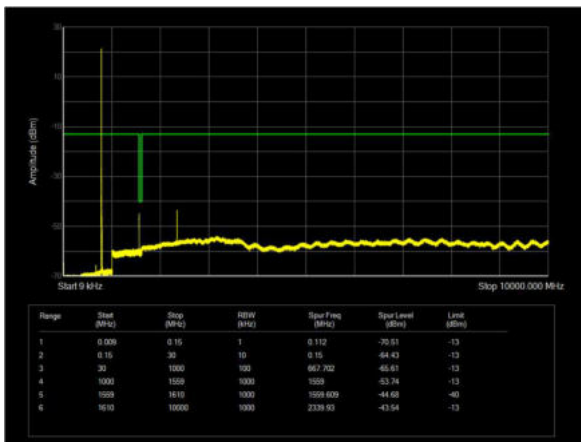
LTE Band 12 10MHz CH-High 9kHz ~10GHz



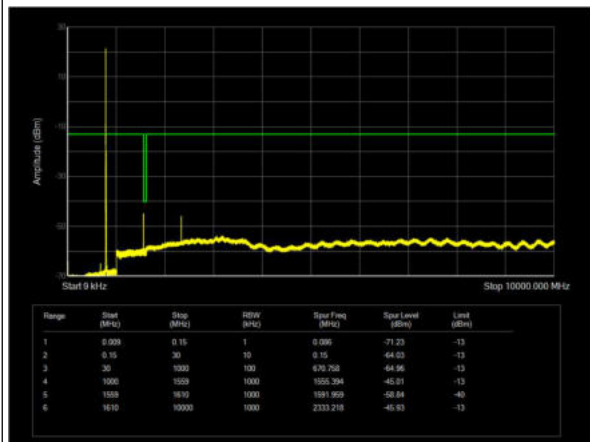
LTE Band 13 5MHz CH-Low 9kHz ~10GHz



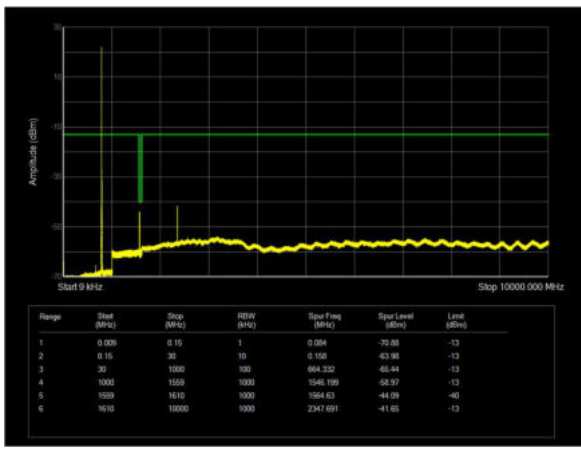
LTE Band 13 5MHz CH-Middle 9kHz ~10GHz



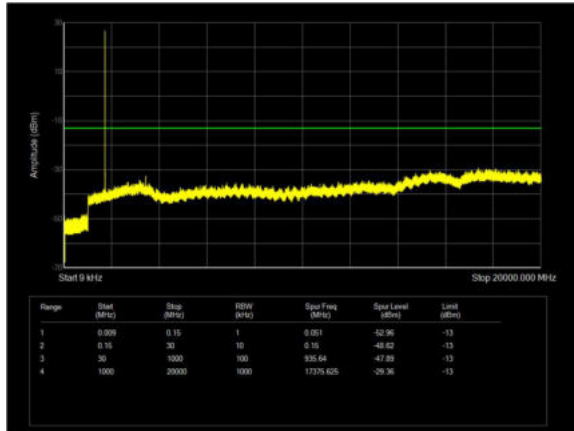
LTE Band 13 10MHz CH-Middle 9kHz ~10GHz



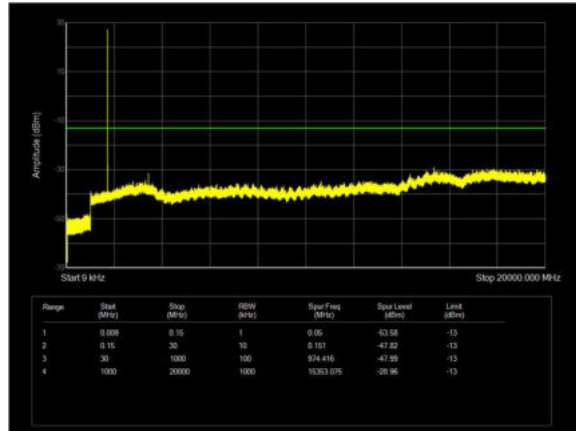
LTE Band 13 5MHz CH-High 9kHz ~10GHz



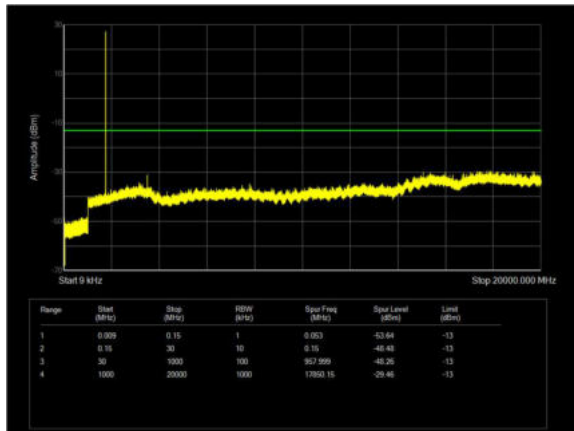
LTE Band 66 1.4MHz CH-Low 9kHz ~20GHz



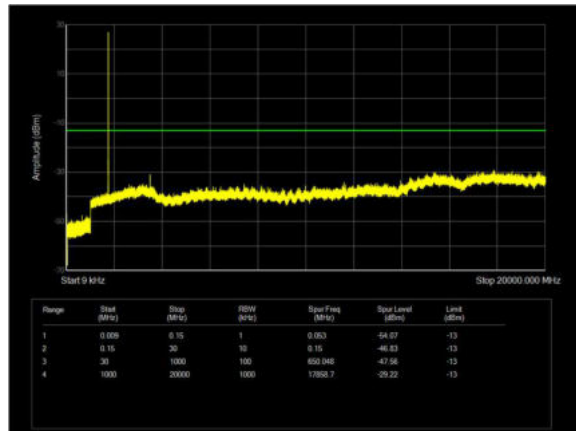
LTE Band 66 3MHz CH-Low 9kHz ~20GHz



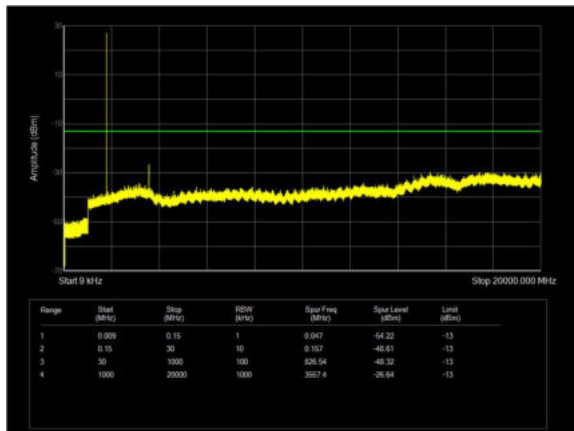
LTE Band 66 1.4MHz CH-Middle 9kHz ~20GHz



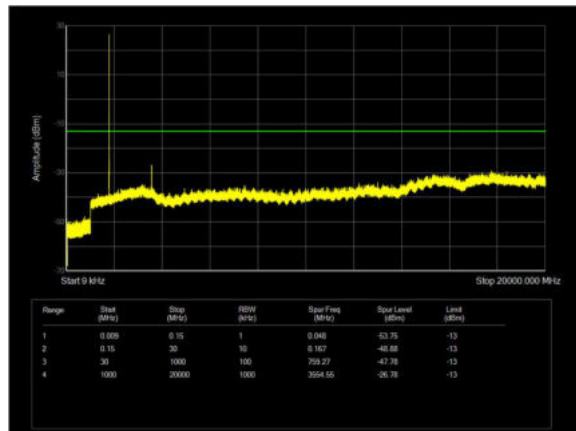
LTE Band 66 3MHz CH-Middle 9kHz ~20GHz



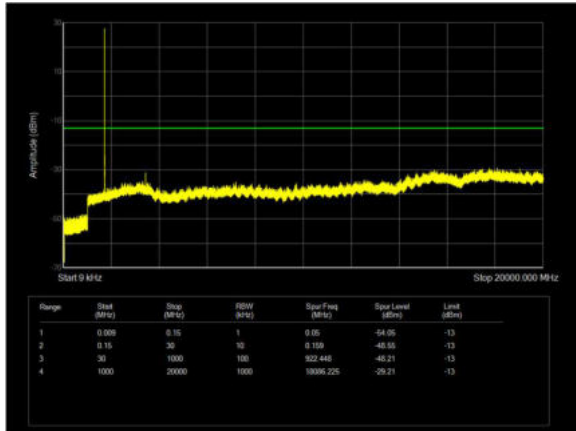
LTE Band 66 1.4MHz CH-High 9kHz ~20GHz



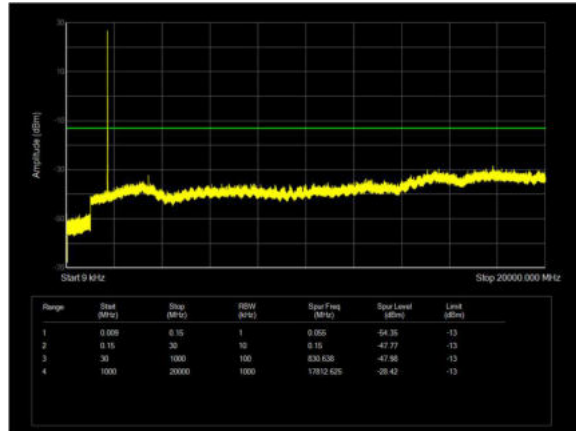
LTE Band 66 3MHz CH-High 9kHz ~20GHz



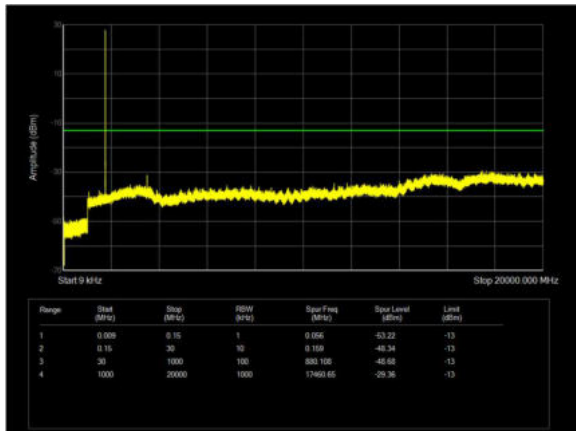
LTE Band 66 5MHz CH-Low 9kHz ~20GHz



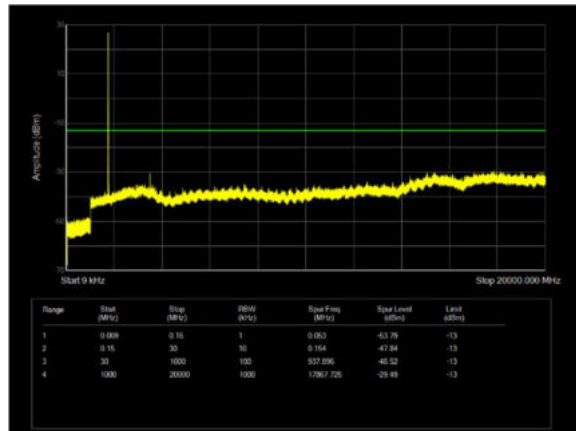
LTE Band 66 10MHz CH-Low 9kHz ~20GHz



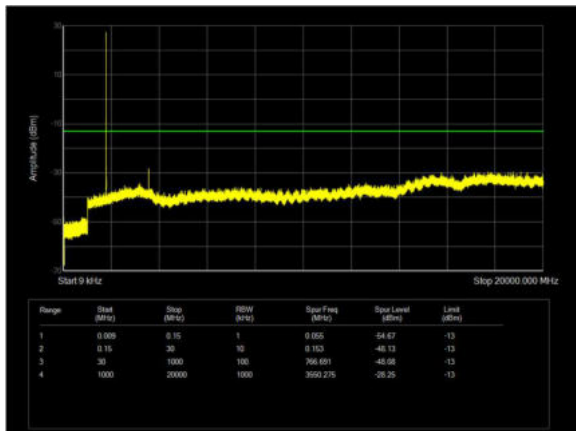
LTE Band 66 5MHz CH-Middle 9kHz ~20GHz



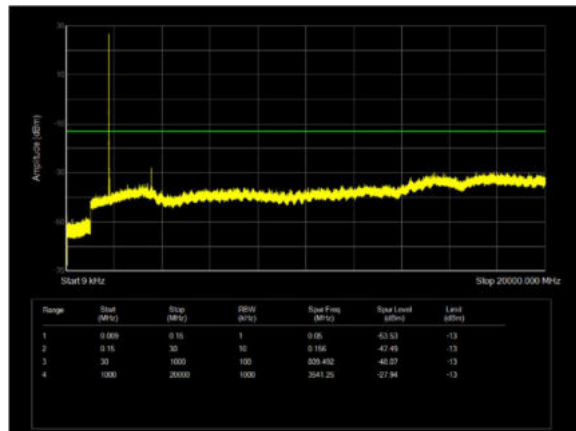
LTE Band 66 10MHz CH-Middle 9kHz ~20GHz



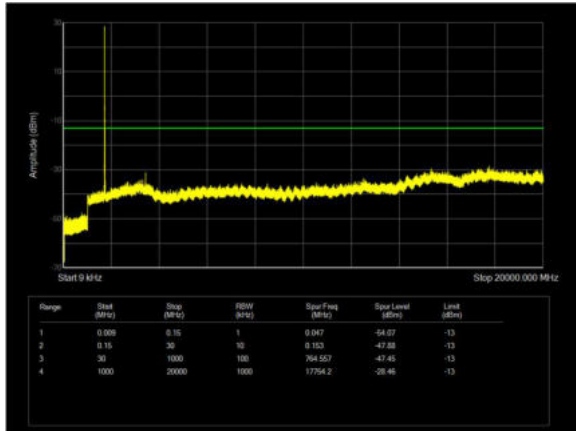
LTE Band 66 5MHz CH-High 9kHz ~20GHz



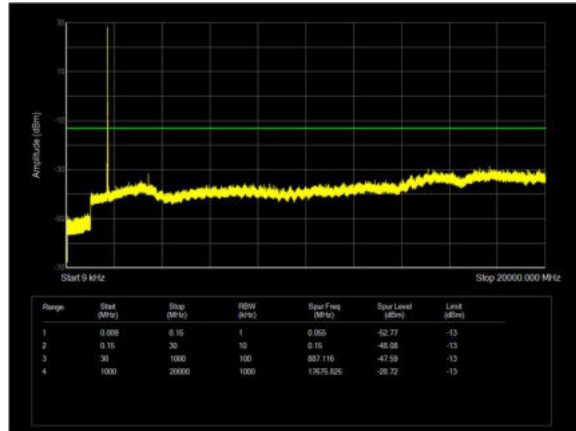
LTE Band 66 10MHz CH-High 9kHz ~20GHz



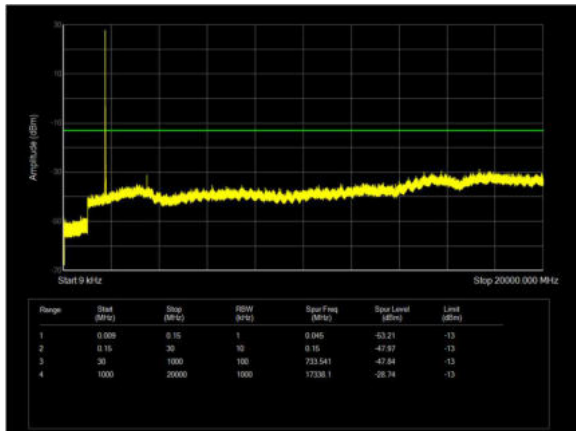
LTE Band 66 15MHz CH-Low 9kHz ~20GHz



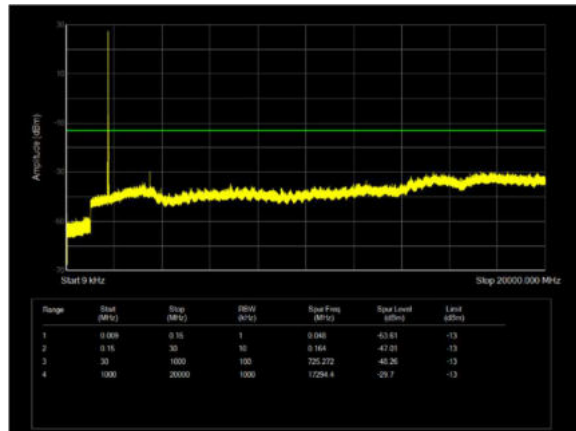
LTE Band 66 20MHz CH-Low 9kHz ~20GHz



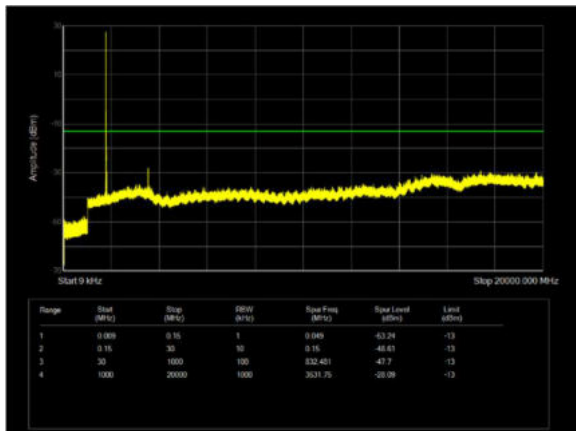
LTE Band 66 15MHz CH-Middle 9kHz ~20GHz



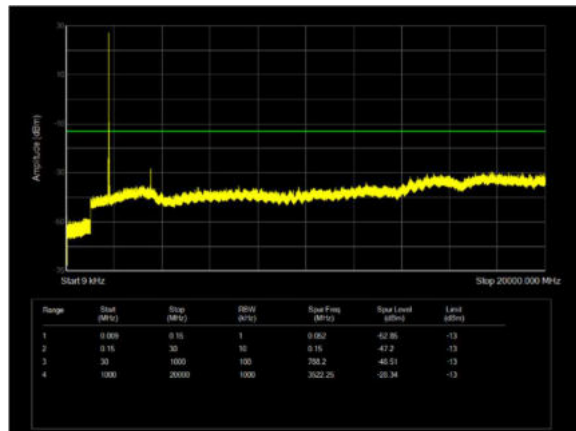
LTE Band 66 20MHz CH-Middle 9kHz ~20GHz



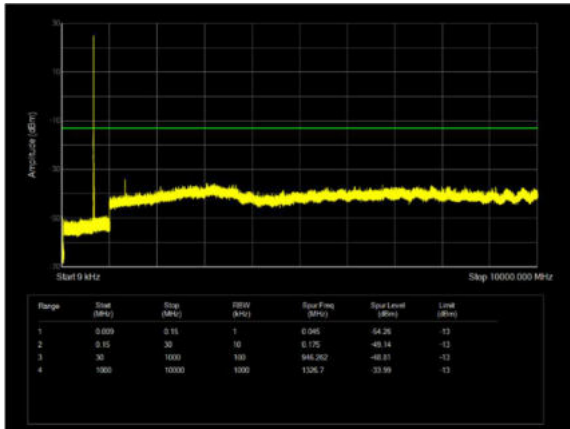
LTE Band 66 15MHz CH-High 9kHz ~20GHz



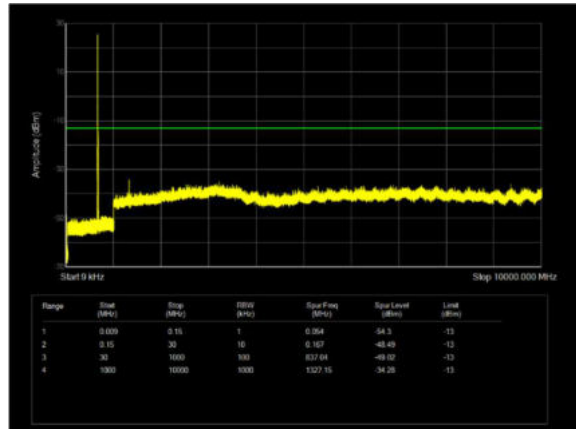
LTE Band 66 20MHz CH-High 9kHz ~20GHz



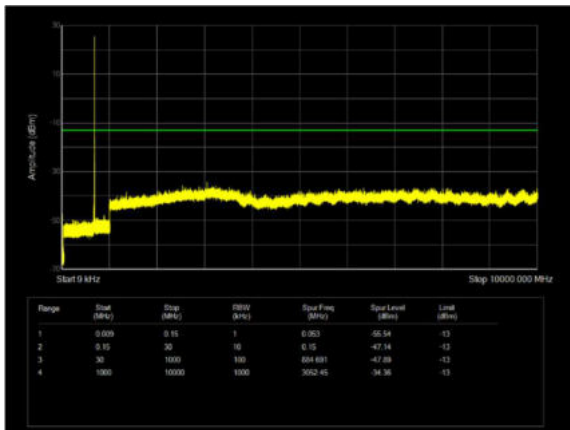
LTE Band 71 5MHz CH-Low 9kHz ~10GHz



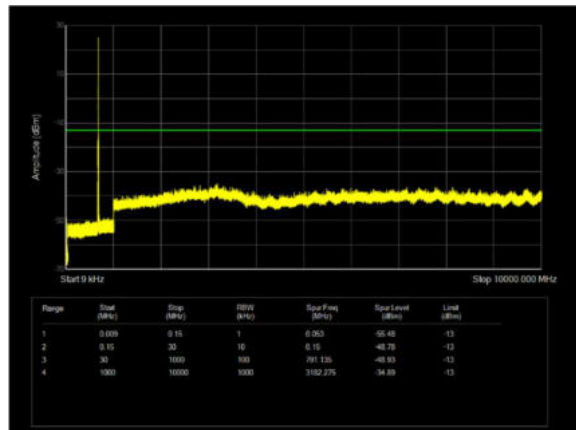
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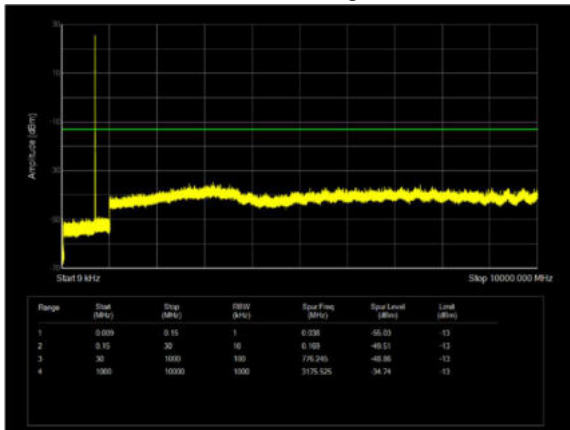
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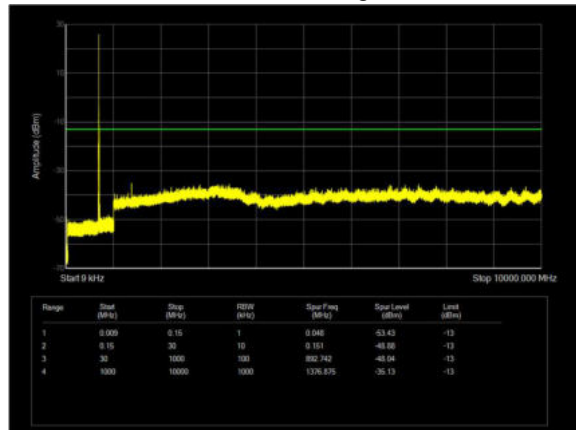
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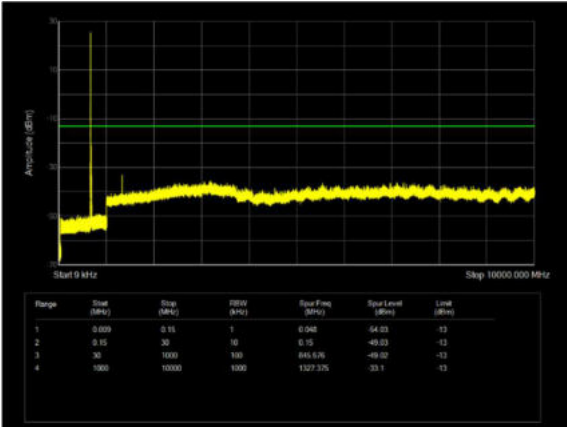
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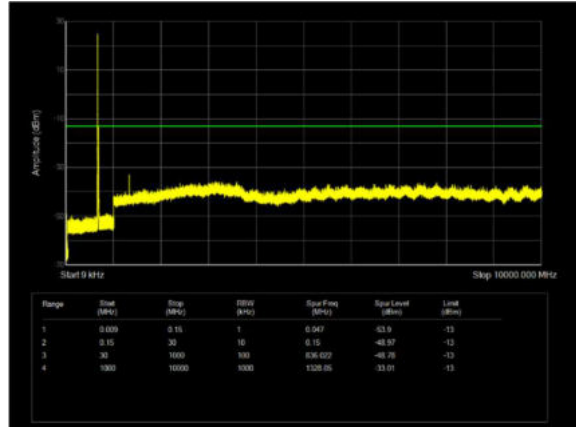
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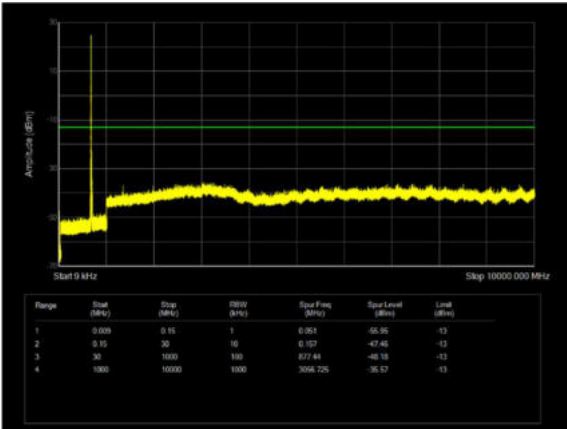
LTE Band 71 15MHz CH-Low 9kHz ~10GHz



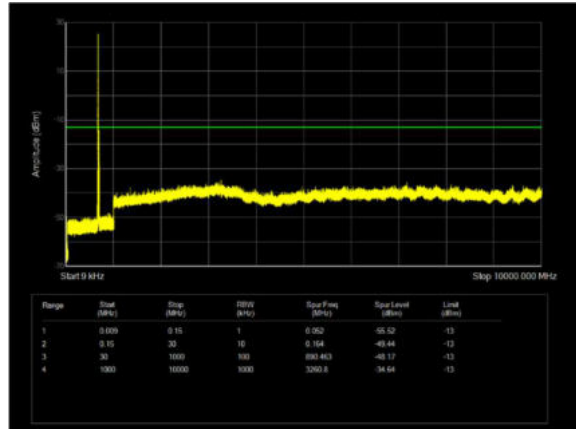
LTE Band 71 20MHz CH-Low 9kHz ~10GHz



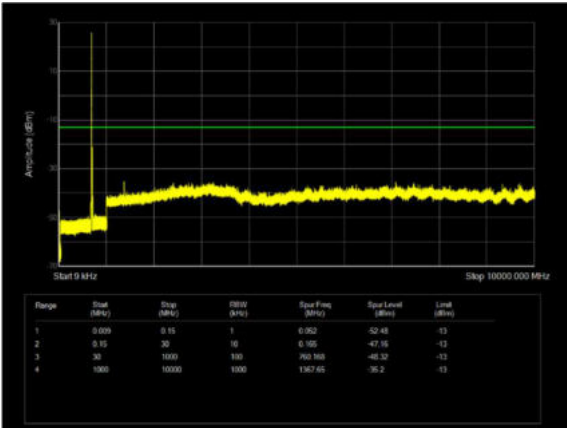
LTE Band 71 15MHz CH-Middle 9kHz ~10GHz



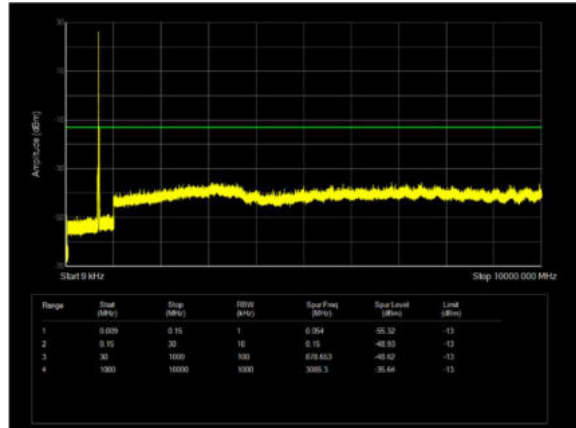
LTE Band 71 20MHz CH-Middle 9kHz ~10GHz



LTE Band 71 15MHz CH-High 9kHz ~10GHz



LTE Band 71 20MHz CH-High 9kHz ~10GHz



6.7 Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3463.90	-48.52	2.70	12.70	Vertical	-38.52	-13.00	25.52	69
3	5196.20	-62.93	3.20	12.50	Vertical	-53.63	-13.00	40.63	156
4	6927.20	-70.42	4.20	11.80	Vertical	-62.82	-13.00	49.82	69
5	8659.00	-68.75	4.40	12.50	Vertical	-60.65	-13.00	47.65	85
6	10390.80	-64.26	4.70	11.30	Vertical	-57.66	-13.00	44.66	95
7	12122.60	-65.54	5.20	13.80	Vertical	-56.94	-13.00	43.94	67
8	13854.40	-59.43	5.70	11.30	Vertical	-53.83	-13.00	40.83	194
9	15586.20	-70.31	6.10	16.80	Vertical	-59.61	-13.00	46.61	68
10	17318.00	-66.73	6.10	14.20	Vertical	-58.63	-13.00	45.63	94
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.50	-50.11	2.70	12.70	Vertical	-40.11	-13.00	27.11	39
3	5191.10	-65.76	3.20	12.50	Vertical	-56.46	-13.00	43.46	315
4	6920.00	-70.01	4.20	11.80	Vertical	-62.41	-13.00	49.41	92
5	8650.00	-68.42	4.40	12.50	Vertical	-60.32	-13.00	47.32	154
6	10380.00	-64.63	4.70	11.30	Vertical	-58.03	-13.00	45.03	69
7	12110.00	-66.13	5.20	13.80	Vertical	-57.53	-13.00	44.53	198
8	13840.00	-59.87	5.70	11.30	Vertical	-54.27	-13.00	41.27	67
9	15570.00	-70.62	6.10	16.80	Vertical	-59.92	-13.00	46.92	186
10	17300.00	-65.57	6.10	14.20	Vertical	-57.47	-13.00	44.47	95
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.10	-54.58	2.70	12.70	Vertical	-44.58	-13.00	31.58	68
3	5170.60	-72.07	3.20	12.50	Vertical	-62.77	-13.00	49.77	29
4	6890.00	-70.76	4.20	11.80	Vertical	-63.16	-13.00	50.16	92
5	8612.50	-70.86	4.40	12.50	Vertical	-62.76	-13.00	49.76	97
6	10335.00	-65.37	4.70	11.30	Vertical	-58.77	-13.00	45.77	257
7	12057.50	-66.48	5.20	13.80	Vertical	-57.88	-13.00	44.88	28
8	13780.00	-60.07	5.70	11.30	Vertical	-54.47	-13.00	41.47	98
9	15502.50	-71.66	6.10	16.80	Vertical	-60.96	-13.00	47.96	81
10	17225.00	-66.02	6.10	14.20	Vertical	-57.92	-13.00	44.92	82

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1413.60	-58.11	1.70	8.70	Vertical	-53.26	-13.00	40.26	34
3	2120.40	-56.77	2.10	11.10	Vertical	-49.92	-13.00	36.92	28
4	2827.20	-65.73	2.30	13.10	Vertical	-57.08	-13.00	44.08	157
5	3535.00	-59.73	2.60	12.70	Vertical	-51.78	-13.00	38.78	57
6	4242.10	-55.96	3.30	12.50	Vertical	-48.91	-13.00	35.91	82
7	4947.60	-64.11	3.40	12.50	Vertical	-57.16	-13.00	44.16	74
8	5654.40	-63.91	3.30	12.50	Vertical	-56.86	-13.00	43.86	81
9	6361.20	-59.67	3.80	11.50	Vertical	-54.12	-13.00	41.12	174
10	7068.00	-58.01	4.20	11.80	Vertical	-52.56	-13.00	39.56	91

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.60	-58.02	1.70	8.70	Vertical	-53.17	-13.00	40.17	91
3	2115.90	-58.53	2.10	11.10	Vertical	-51.68	-13.00	38.68	54
4	2820.00	-65.58	2.30	13.10	Vertical	-56.93	-13.00	43.93	140
5	3526.70	-59.56	2.60	12.70	Vertical	-51.61	-13.00	38.61	84
6	4232.10	-55.68	3.30	12.50	Vertical	-48.63	-13.00	35.63	91
7	4935.00	-60.56	3.40	12.50	Vertical	-53.61	-13.00	40.61	91
8	5640.00	-62.95	3.30	12.50	Vertical	-55.90	-13.00	42.90	82
9	6345.00	-59.24	3.80	11.50	Vertical	-53.69	-13.00	40.69	182
10	7050.00	-57.90	4.20	11.80	Vertical	-52.45	-13.00	39.45	38

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1405.00	-56.39	1.70	8.70	Vertical	-51.54	-13.00	38.54	94
3	2107.50	-58.02	2.10	11.10	Vertical	-51.17	-13.00	38.17	58
4	2810.00	-64.24	2.30	13.10	Vertical	-55.59	-13.00	42.59	197
5	3512.50	-58.36	2.60	12.70	Vertical	-50.41	-13.00	37.41	37
6	4215.00	-55.66	3.30	12.50	Vertical	-48.61	-13.00	35.61	84
7	4917.50	-63.76	3.40	12.50	Vertical	-56.81	-13.00	43.81	91
8	5620.00	-62.31	3.30	12.50	Vertical	-55.26	-13.00	42.26	81
9	6322.50	-58.72	3.80	11.50	Vertical	-53.17	-13.00	40.17	24
10	7025.00	-56.67	4.20	11.80	Vertical	-51.22	-13.00	38.22	72

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 13 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1559.85	-64.96	1.70	8.70	Vertical	-57.96	-40.00	17.96	147
Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
3	2339.40	-55.41	1.70	8.70	Vertical	-50.56	-13.00	37.56	54
4	3118.00	-58.40	2.10	12.00	Vertical	-50.65	-13.00	37.65	94
5	3899.00	-52.02	2.30	13.10	Vertical	-43.37	-13.00	30.37	18
6	4678.83	-57.29	2.90	12.50	Vertical	-49.84	-13.00	36.84	27
7	5456.50	-61.63	3.10	12.50	Vertical	-54.38	-13.00	41.38	81
8	6236.00	-60.00	3.30	12.50	Vertical	-52.95	-13.00	39.95	168
9	7015.50	-59.91	3.50	12.80	Vertical	-52.76	-13.00	39.76	98
10	7795.00	-57.47	4.20	11.80	Vertical	-52.02	-13.00	39.02	65
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.									
2. The worst emission was found in the antenna is Horizontal position.									

LTE Band 13 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1555.65	-60.27	1.70	8.70	Vertical	-55.42	-13.00	42.42	27
3	2333.32	-58.64	2.10	12.00	Vertical	-50.89	-13.00	37.89	271
4	3110.33	-60.24	2.30	13.10	Vertical	-51.59	-13.00	38.59	94
5	3887.67	-53.20	2.90	12.50	Vertical	-45.75	-13.00	32.75	126
6	4665.50	-59.49	3.10	12.50	Vertical	-52.24	-13.00	39.24	94
7	5439.00	-63.17	3.30	12.50	Vertical	-56.12	-13.00	43.12	25
8	6216.00	-59.73	3.50	12.80	Vertical	-52.58	-13.00	39.58	36
9	6993.00	-57.30	4.20	11.80	Vertical	-51.85	-13.00	38.85	95
10	7770.00	-57.69	4.40	12.30	Vertical	-51.94	-13.00	38.94	57
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.									
2. The worst emission was found in the antenna is Vertical position.									

LTE Band 66 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3489.00	-48.08	2.70	12.70	Vertical	-38.08	-13.00	25.08	61
3	5233.70	-64.80	3.20	12.50	Vertical	-55.50	-13.00	42.50	94
4	6978.20	-67.33	4.20	11.80	Vertical	-59.73	-13.00	46.73	85
5	8721.50	-67.14	4.40	12.50	Vertical	-59.04	-13.00	46.04	187
6	10465.80	-65.56	4.70	11.80	Vertical	-58.46	-13.00	45.46	81
7	12210.10	-65.48	5.20	13.80	Vertical	-56.88	-13.00	43.88	72
8	13954.40	-62.62	5.70	13.20	Vertical	-55.12	-13.00	42.12	54
9	15698.70	-70.57	6.10	16.80	Vertical	-59.87	-13.00	46.87	194
10	17443.00	-66.73	6.10	14.20	Vertical	-58.63	-13.00	45.63	268

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3485.50	-48.46	2.70	12.70	Vertical	-38.46	-13.00	25.46	97
3	5228.50	-65.50	3.20	12.50	Vertical	-56.20	-13.00	43.20	87
4	6971.00	-68.20	4.20	11.80	Vertical	-60.60	-13.00	47.60	58
5	8712.50	-67.61	4.40	12.50	Vertical	-59.51	-13.00	46.51	82
6	10455.00	-64.97	4.70	11.80	Vertical	-57.87	-13.00	44.87	29
7	12197.50	-65.32	5.20	13.80	Vertical	-56.72	-13.00	43.72	54
8	13940.00	-62.90	5.70	13.20	Vertical	-55.40	-13.00	42.40	28
9	15682.50	-70.75	6.10	16.80	Vertical	-60.05	-13.00	47.05	39
10	17425.00	-66.89	6.10	14.20	Vertical	-58.79	-13.00	45.79	187

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 66 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3472.20	-49.79	2.70	12.70	Vertical	-39.79	-13.00	26.79	84
3	5208.20	-66.05	3.20	12.50	Vertical	-56.75	-13.00	43.75	91
4	6944.60	-67.40	4.20	11.80	Vertical	-59.80	-13.00	46.80	67
5	8675.00	-67.33	4.40	12.50	Vertical	-59.23	-13.00	46.23	94
6	10410.00	-65.69	4.70	11.80	Vertical	-58.59	-13.00	45.59	47
7	12145.00	-66.07	5.20	13.80	Vertical	-57.47	-13.00	44.47	92
8	13880.00	-62.08	5.70	13.20	Vertical	-54.58	-13.00	41.58	97
9	15615.00	-71.22	6.10	16.80	Vertical	-60.52	-13.00	47.52	85
10	17350.00	-65.92	6.10	14.20	Vertical	-57.82	-13.00	44.82	27

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 71 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1356.80	-47.74	1.50	8.70	Vertical	-42.69	-13.00	29.69	67
3	2034.93	-54.07	1.70	11.10	Vertical	-46.82	-13.00	33.82	297
4	2713.73	-65.44	2.70	12.70	Vertical	-57.59	-13.00	44.59	90
5	3391.60	-59.66	3.00	12.50	Vertical	-52.31	-13.00	39.31	82
6	4070.20	-52.18	3.10	12.50	Vertical	-44.93	-13.00	31.93	91
7	4748.20	-61.85	3.30	12.50	Vertical	-54.80	-13.00	41.80	62
8	5424.00	-63.69	3.50	12.80	Vertical	-56.54	-13.00	43.54	98
9	6102.00	-59.98	4.10	11.80	Vertical	-54.43	-13.00	41.43	29
10	6789.00	-58.90	4.10	11.50	Vertical	-53.65	-13.00	40.65	168

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 71 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1351.93	-47.36	1.50	8.70	Vertical	-42.31	-13.00	29.31	26
3	2028.27	-50.81	1.70	11.10	Vertical	-43.56	-13.00	30.56	12
4	2704.40	-66.32	2.70	12.70	Vertical	-58.47	-13.00	45.47	244
5	3380.40	-62.17	3.00	12.50	Vertical	-54.82	-13.00	41.82	18
6	4056.40	-54.06	3.10	12.50	Vertical	-46.81	-13.00	33.81	251
7	4728.50	-64.29	3.30	12.50	Vertical	-57.24	-13.00	44.24	84
8	5404.00	-63.61	3.50	12.80	Vertical	-56.46	-13.00	43.46	18
9	6079.00	-61.20	4.10	11.80	Vertical	-55.65	-13.00	42.65	28
10	6755.00	-58.73	4.10	11.50	Vertical	-53.48	-13.00	40.48	211
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 71 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1346.00	-47.31	1.50	8.70	Vertical	-42.26	-13.00	29.26	94
3	2022.20	-53.52	1.70	11.10	Vertical	-46.27	-13.00	33.27	94
4	2696.00	-64.78	2.70	12.70	Vertical	-56.93	-13.00	43.93	114
5	3370.10	-61.60	3.00	12.50	Vertical	-54.25	-13.00	41.25	94
6	4044.50	-54.16	3.10	12.50	Vertical	-46.91	-13.00	33.91	248
7	4711.00	-64.04	3.30	12.50	Vertical	-56.99	-13.00	43.99	48
8	5384.00	-64.14	3.50	12.80	Vertical	-56.99	-13.00	43.99	57
9	6057.00	-60.36	4.10	11.80	Vertical	-54.81	-13.00	41.81	63
10	6730.00	-58.23	4.10	11.50	Vertical	-52.98	-13.00	39.98	112
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	WEISS	VT 4002	58226119450010	2024-05-07	2025-05-06
Wireless Communication Tester	R&S	CMW500	150415	2024-05-07	2025-05-06
Spectrum Analyzer	Keysight	N9020A	MY50510203	2024-05-07	2025-05-06
DC Power Supply	UNI-T	UTP1310+	C220795889	2024-05-08	2025-05-07
Radiated Spurious Emission					
Spectrum Analyzer	R&S	FSV30	100815	2023-12-05	2024-12-04
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2022-09-29	2025-09-28
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1439	2024-07-06	2027-07-05
Horn Antenna	SCHWARZBECK	BBHA 9120D	1594	2023-12-05	2026-12-04
Horn Antenna	SCHWARZBECK	BBHA 9120D	01799	2022-09-01	2025-08-31
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

***** END OF REPORT *****