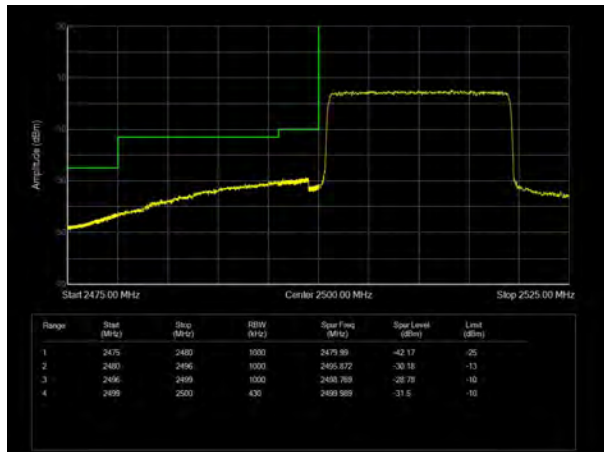
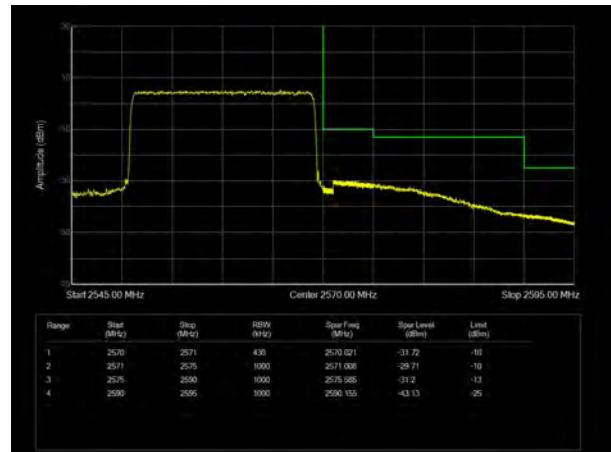


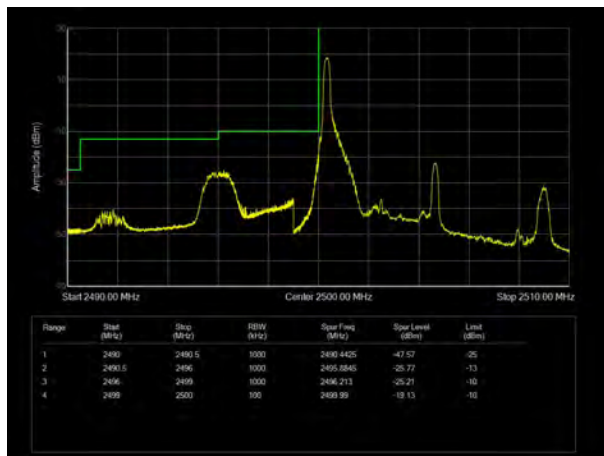
LTE Band 7 16QAM 20MHz CH-Low, 100%RB



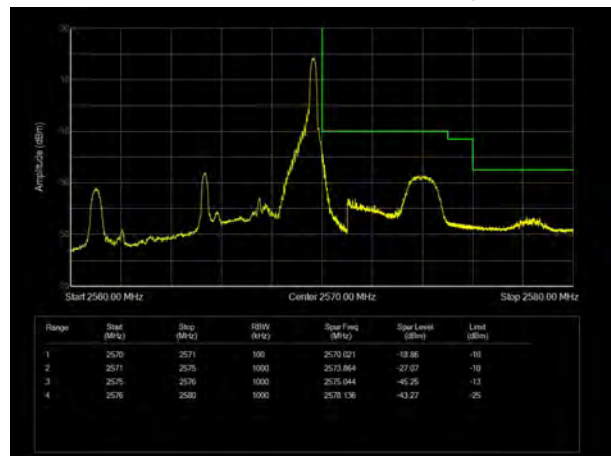
LTE Band 7 16QAM 20MHz CH-High, 100%RB



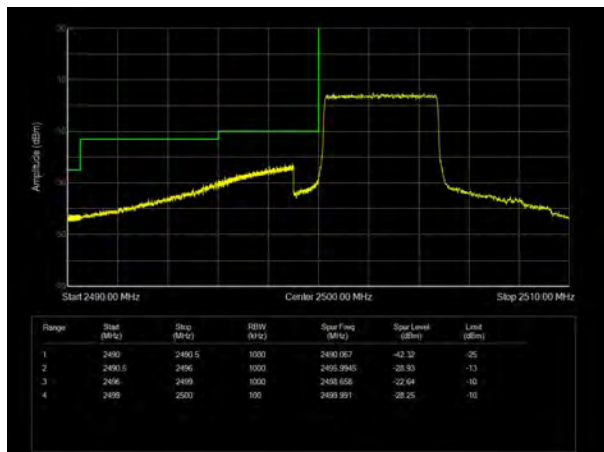
LTE Band 7 64QAM 5MHz CH-Low, 1 RB



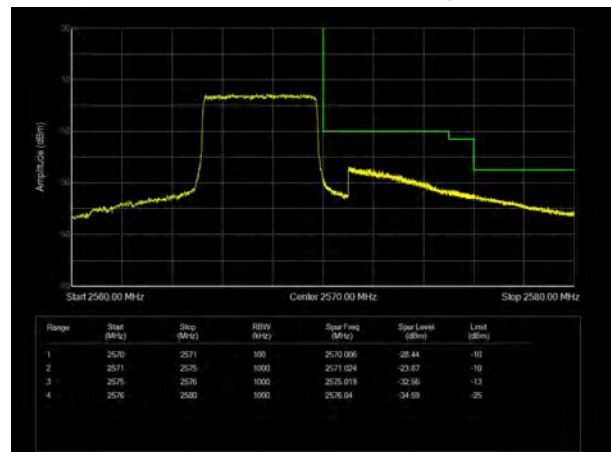
LTE Band 7 64QAM 5MHz CH-High, 1 RB



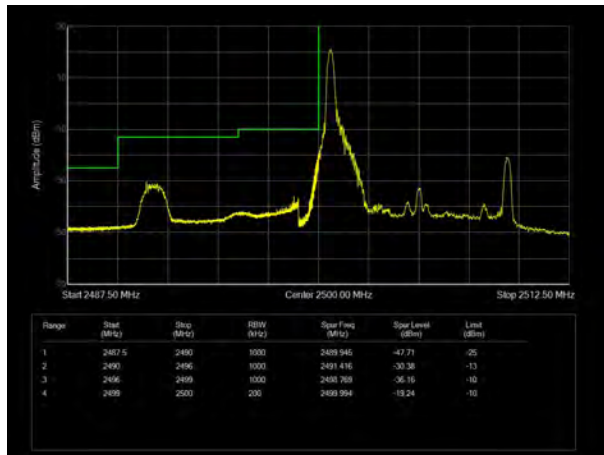
LTE Band 7 64QAM 5MHz CH-Low, 100%RB



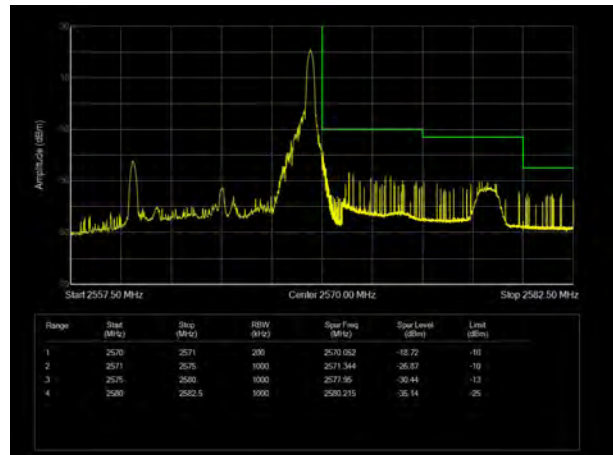
LTE Band 7 64QAM 5MHz CH-High, 100%RB



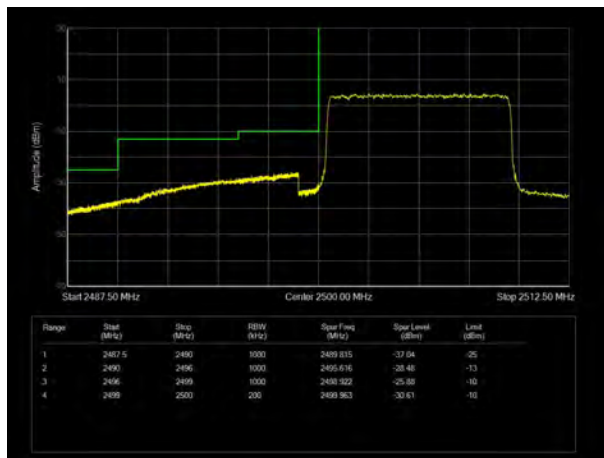
LTE Band 7 64QAM 10MHz CH-Low, 1 RB



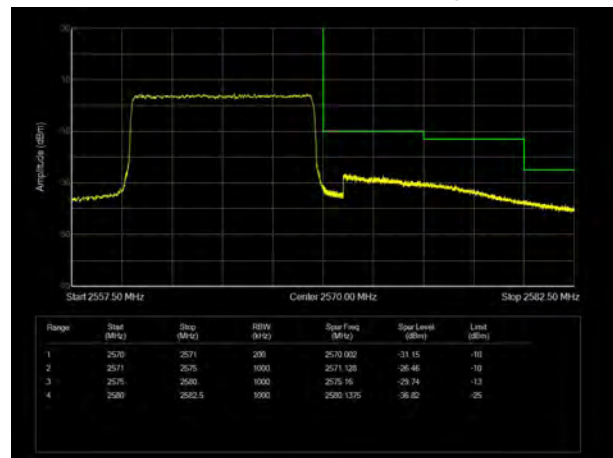
LTE Band 7 64QAM 10MHz CH-High, 1 RB



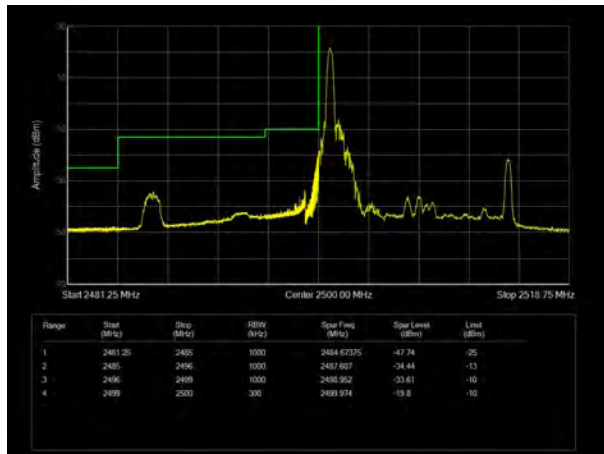
LTE Band 7 64QAM 10MHz CH-Low, 100%RB



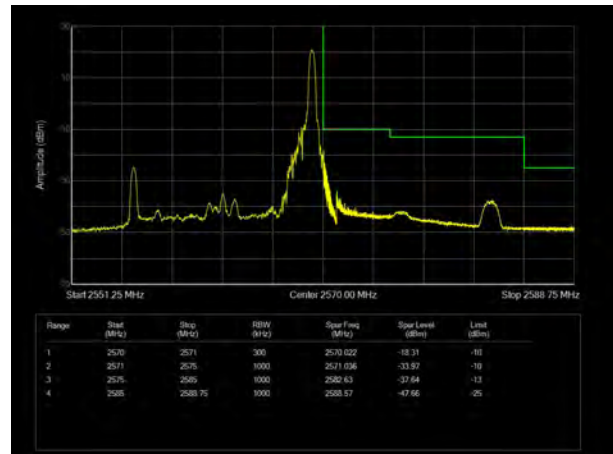
LTE Band 7 64QAM 10MHz CH-High, 100%RB



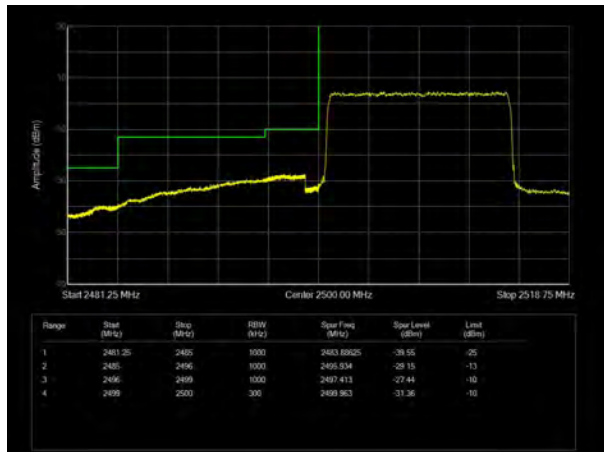
LTE Band 7 64QAM 15MHz CH-Low, 1 RB



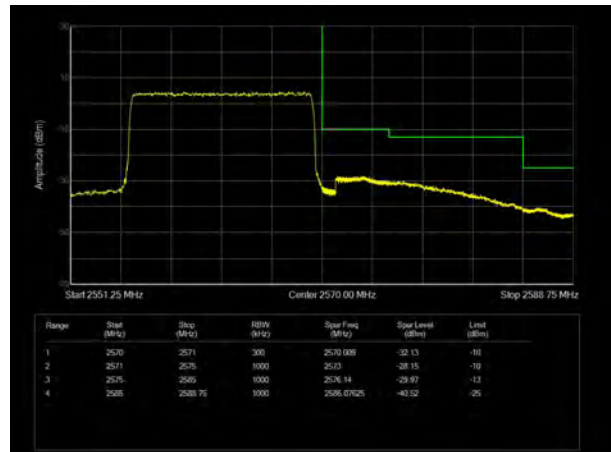
LTE Band 7 64QAM 15MHz CH-High, 1 RB



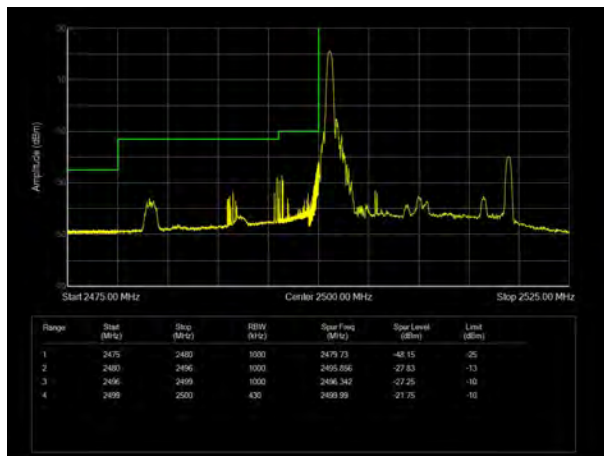
LTE Band 7 64QAM 15MHz CH-Low, 100%RB



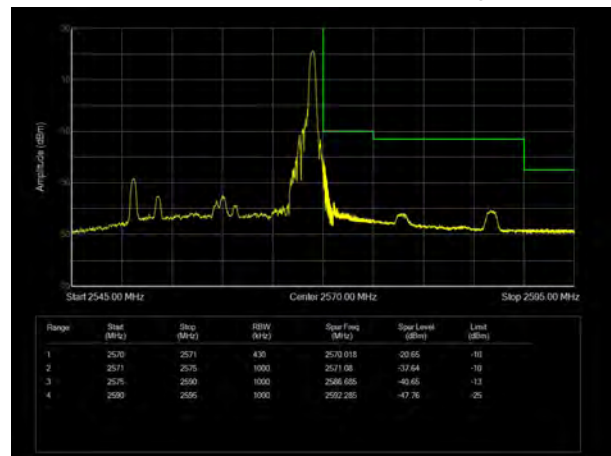
LTE Band 7 64QAM 15MHz CH-High, 100%RB



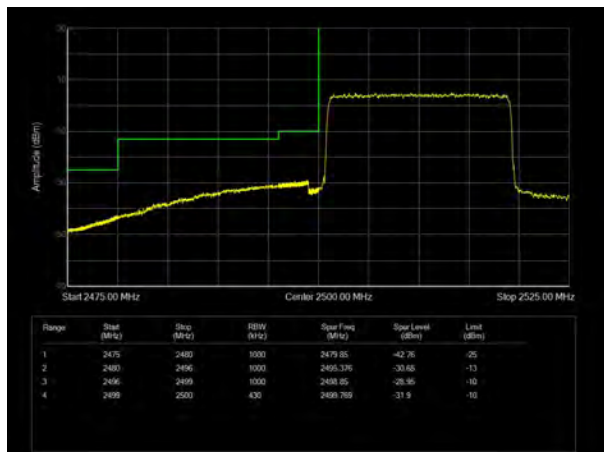
LTE Band 7 64QAM 20MHz CH-Low, 1 RB



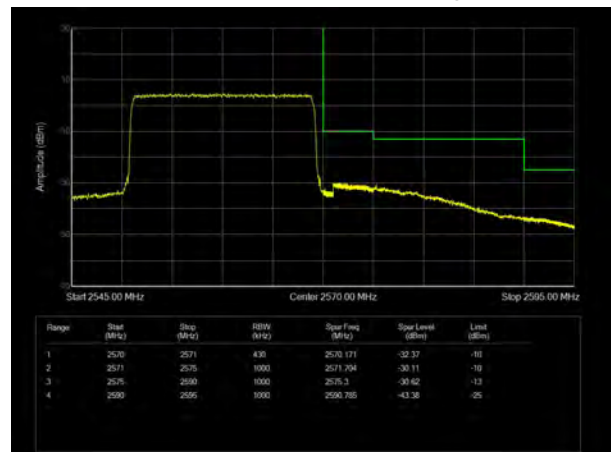
LTE Band 7 64QAM 20MHz CH-High, 1 RB



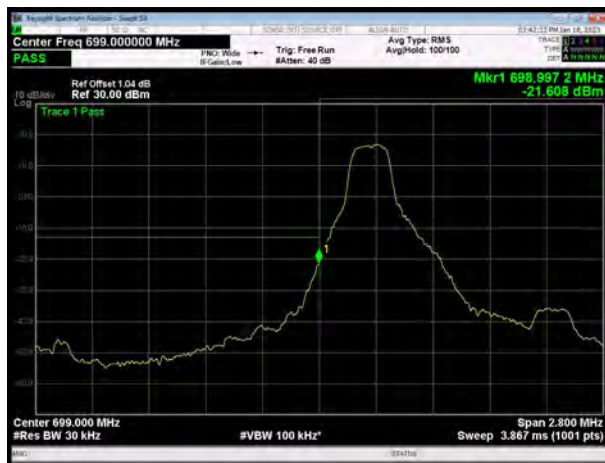
LTE Band 7 64QAM 20MHz CH-Low, 100%RB



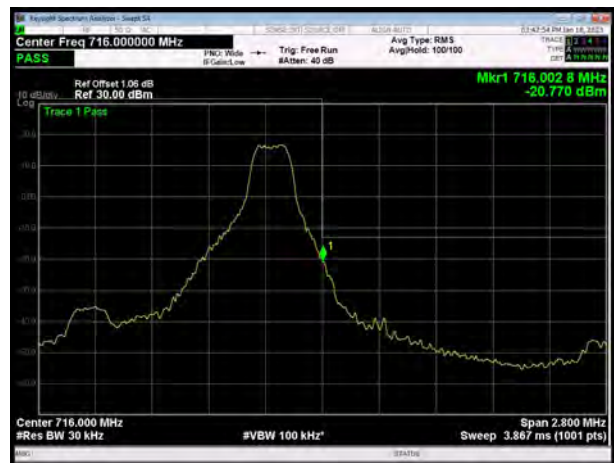
LTE Band 7 64QAM 20MHz CH-High, 100%RB



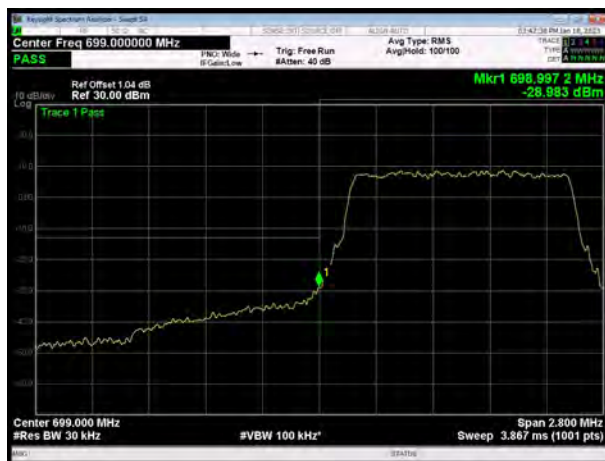
LTE Band 12 QPSK 1.4MHz CH-Low, 1 RB



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



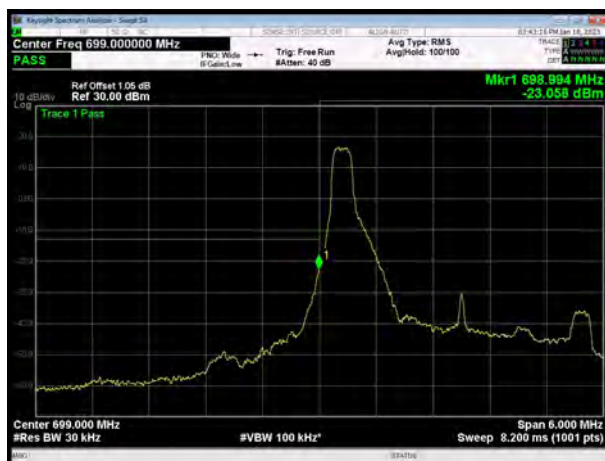
LTE Band 12 QPSK 1.4MHz CH-Low, 100%RB



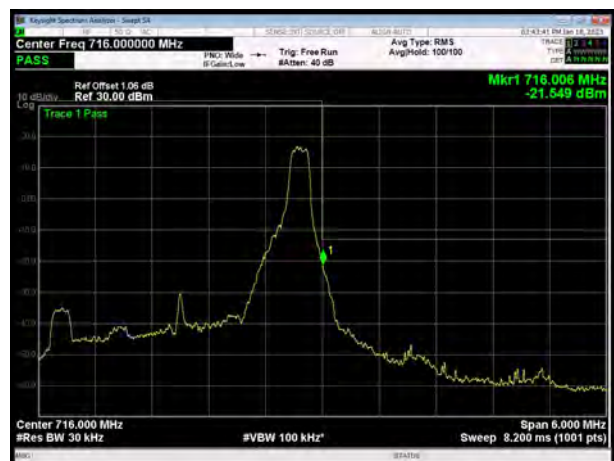
LTE Band 12 QPSK 1.4MHz CH-High, 100%RB



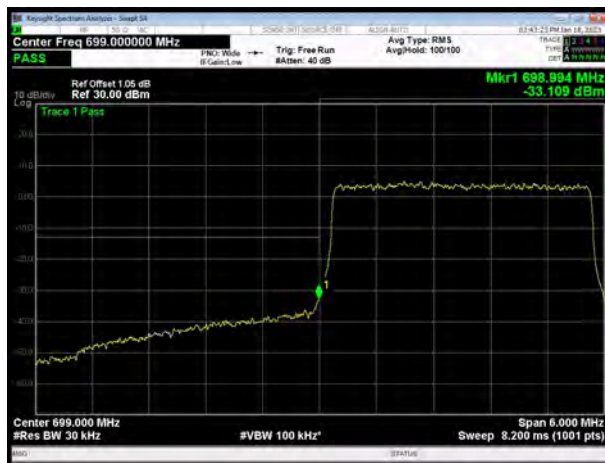
LTE Band 12 QPSK 3MHz CH-Low, 1 RB



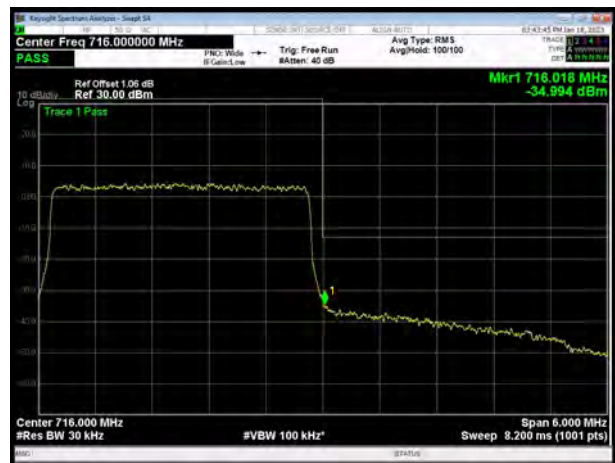
LTE Band 12 QPSK 3MHz CH-High, 1 RB



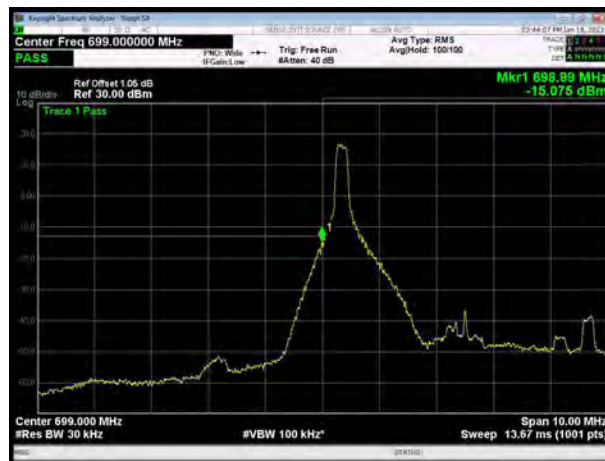
LTE Band 12 QPSK 3MHz CH-Low, 100%RB



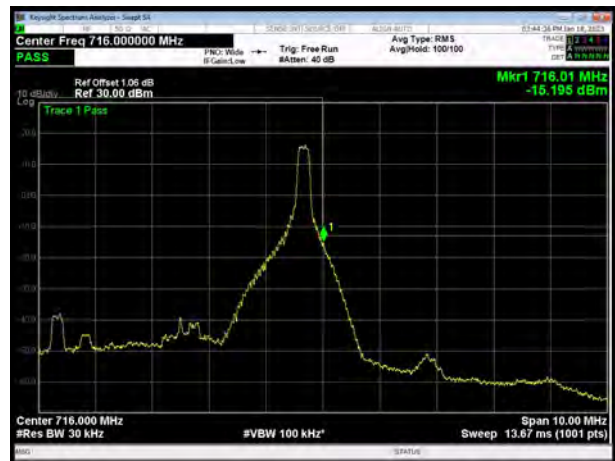
LTE Band 12 QPSK 3MHz CH-High, 100%RB



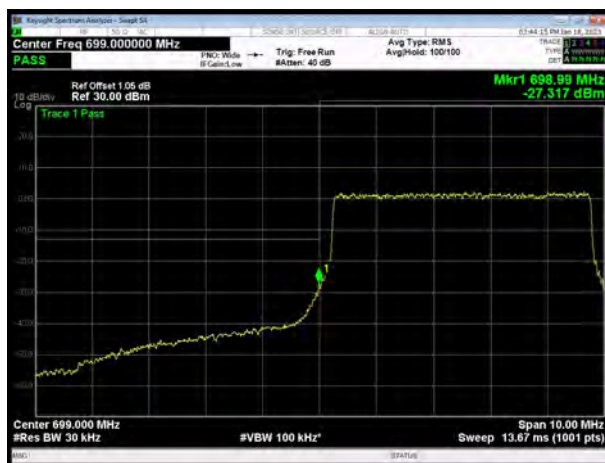
LTE Band 12 QPSK 5MHz CH-Low, 1 RB



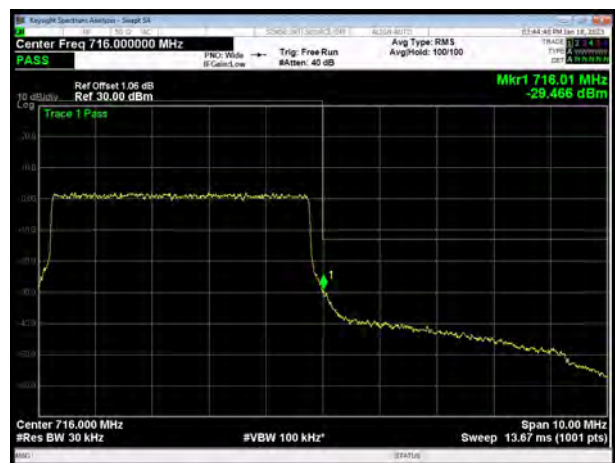
LTE Band 12 QPSK 5MHz CH-High, 1 RB



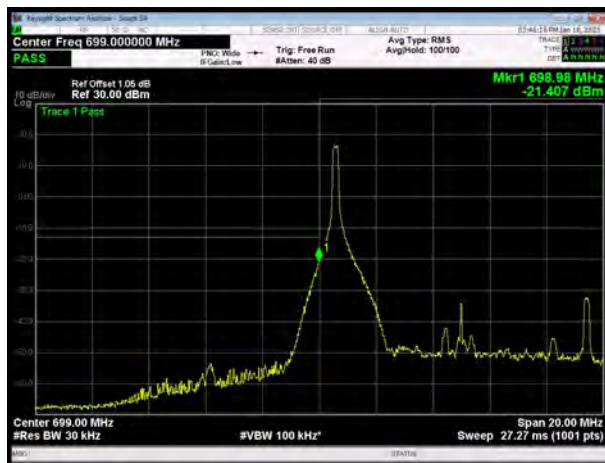
LTE Band 12 QPSK 5MHz CH-Low, 100%RB



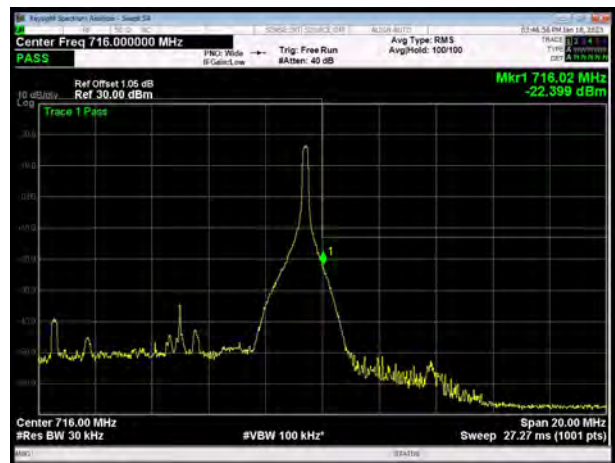
LTE Band 12 QPSK 5MHz CH-High, 100%RB



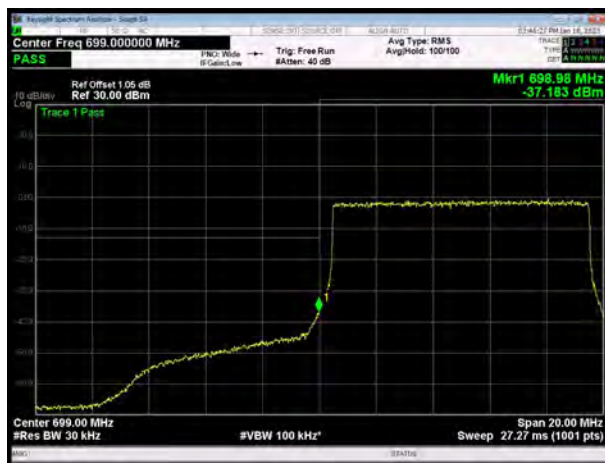
LTE Band 12 QPSK 10MHz CH-Low, 1 RB



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



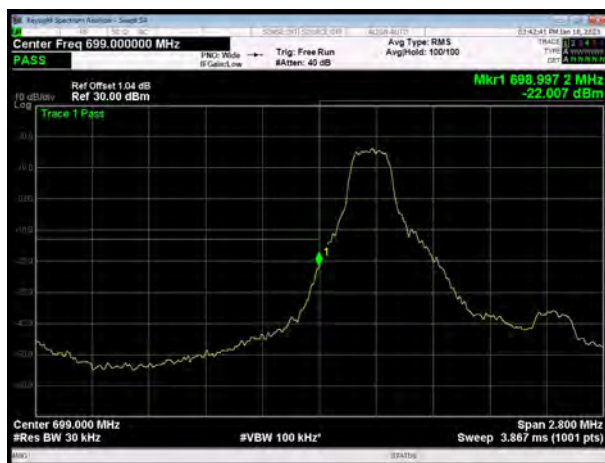
LTE Band 12 QPSK 10MHz CH-Low, 100%RB



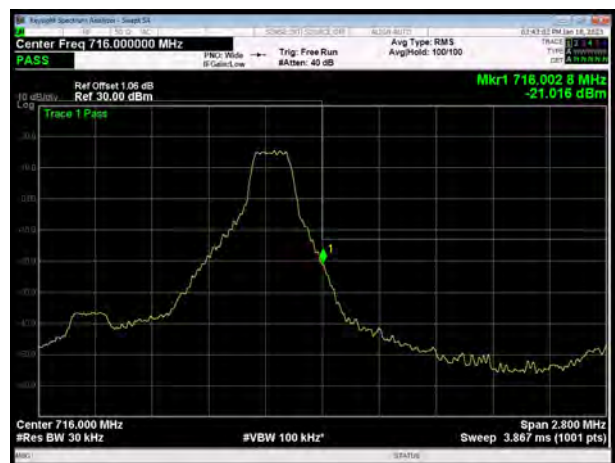
LTE Band 12 QPSK 10MHz CH-High, 100%RB



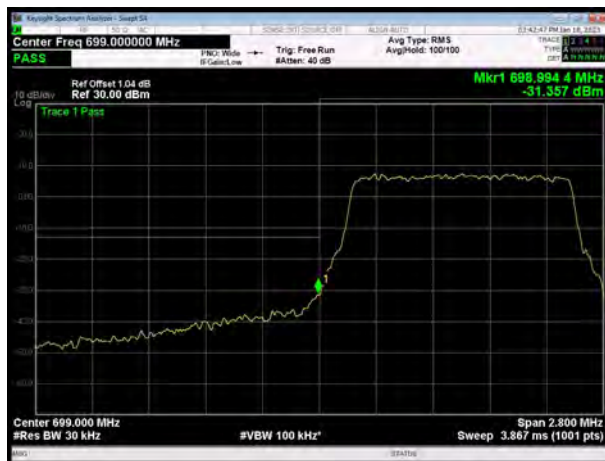
LTE Band 12 16QAM 1.4MHz CH-Low, 1 RB



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



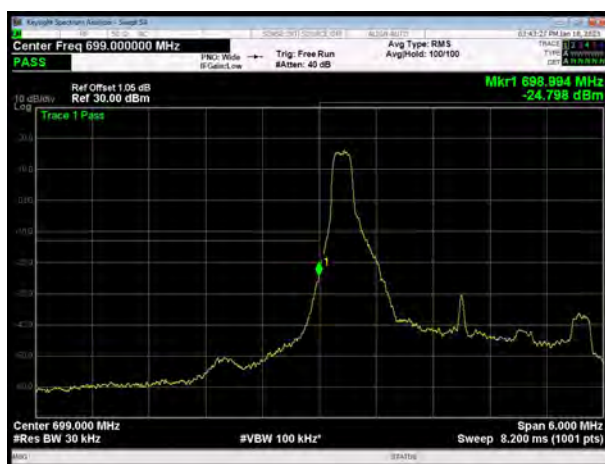
LTE Band 12 16QAM 1.4MHz CH-Low, 100%RB



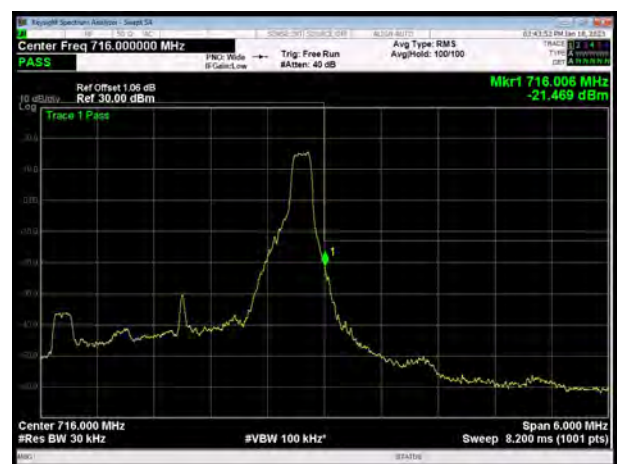
LTE Band 12 16QAM 1.4MHz CH-High, 100%RB



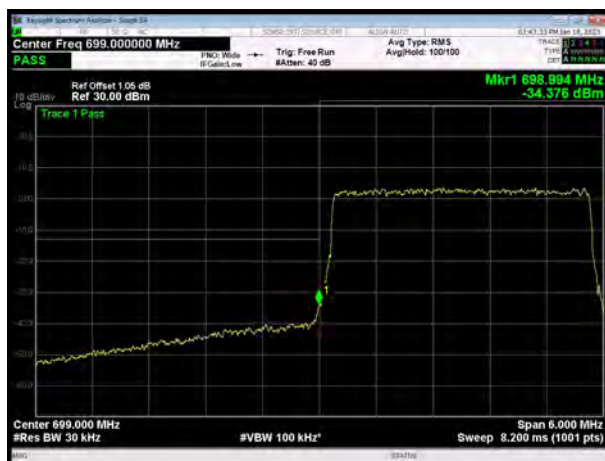
LTE Band 12 16QAM 3MHz CH-Low, 1 RB



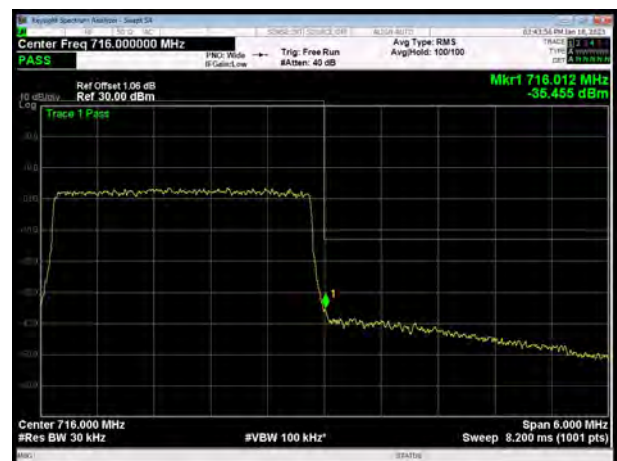
LTE Band 12 16QAM 3MHz CH-High, 1 RB



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



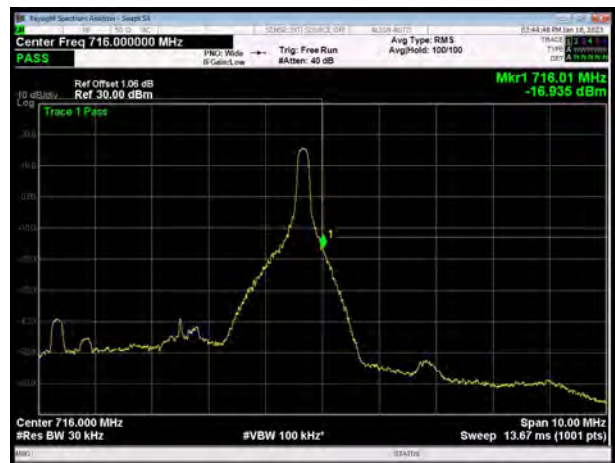
LTE Band 12 16QAM 3MHz CH-High, 100%RB



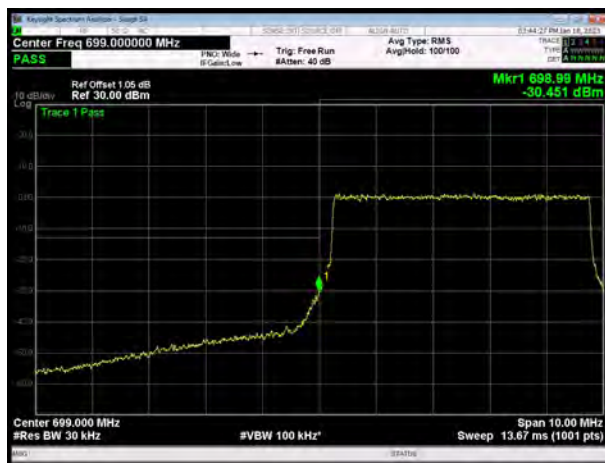
LTE Band 12 16QAM 5MHz CH-Low, 1 RB



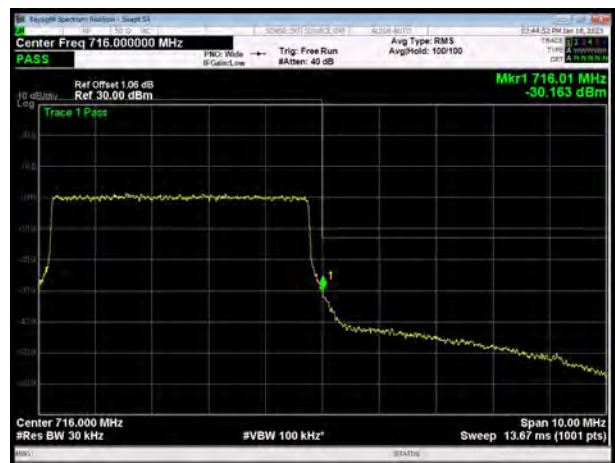
LTE Band 12 16QAM 5MHz CH-High, 1 RB



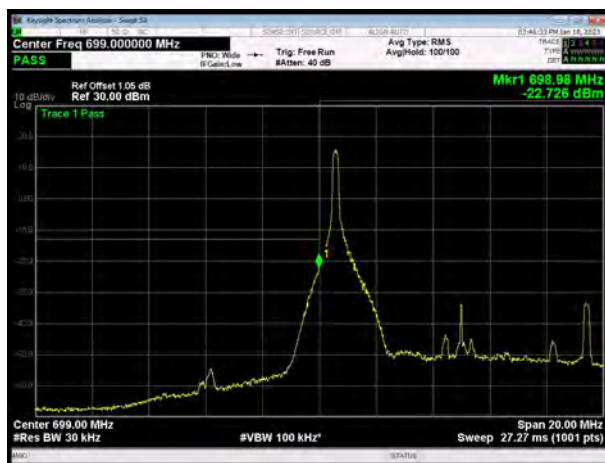
LTE Band 12 16QAM 5MHz CH-Low, 100%RB



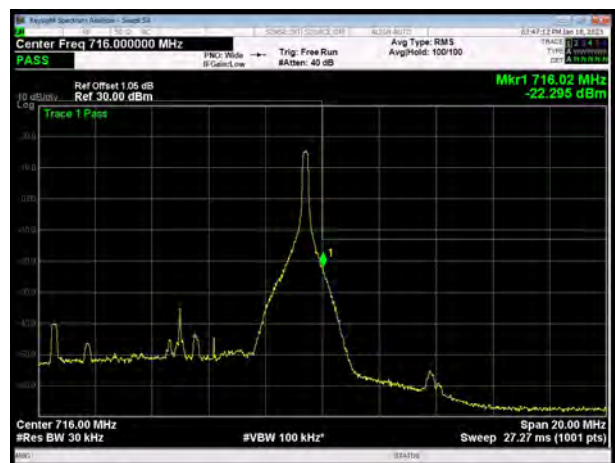
LTE Band 12 16QAM 5MHz CH-High, 100%RB



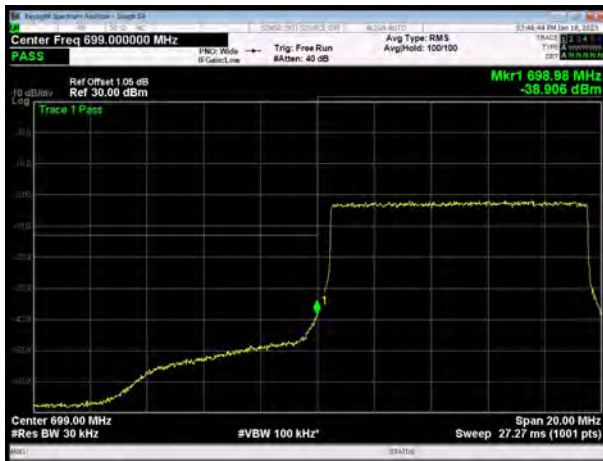
LTE Band 12 16QAM 10MHz CH-Low, 1 RB



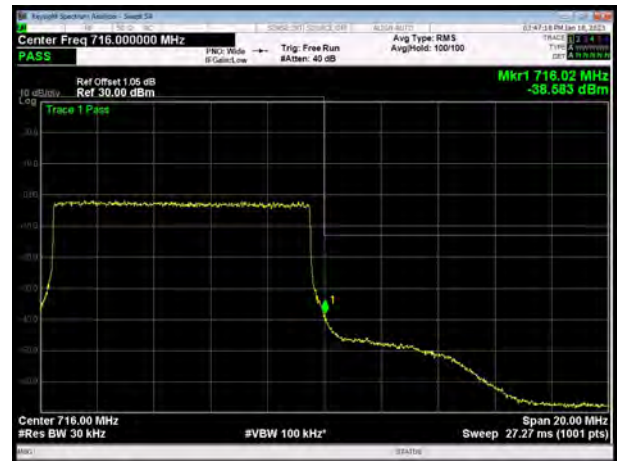
LTE Band 12 16QAM 10MHz CH-High, 1 RB



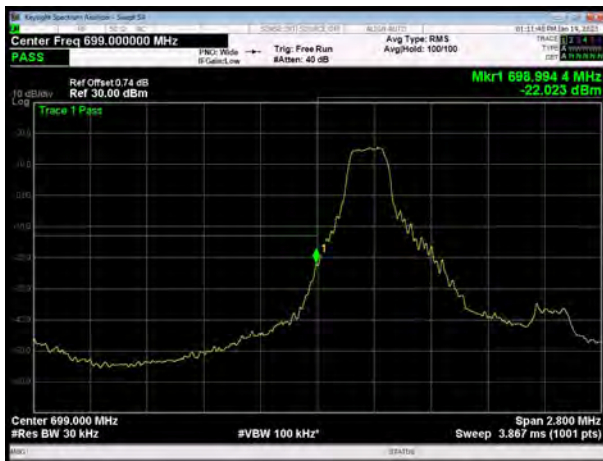
LTE Band 12 16QAM 10MHz CH-Low, 100%RB



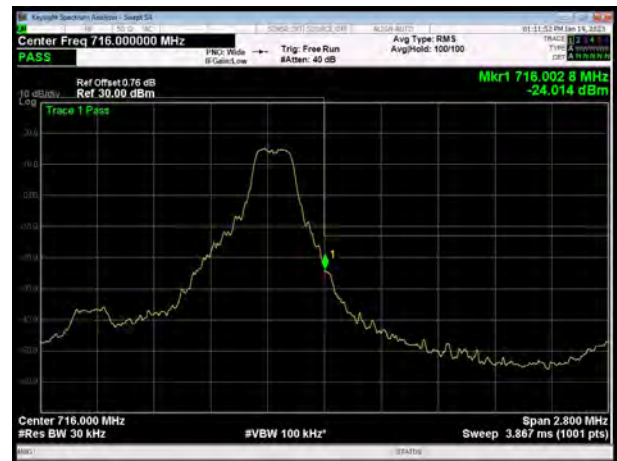
LTE Band 12 16QAM 10MHz CH-High, 100%RB



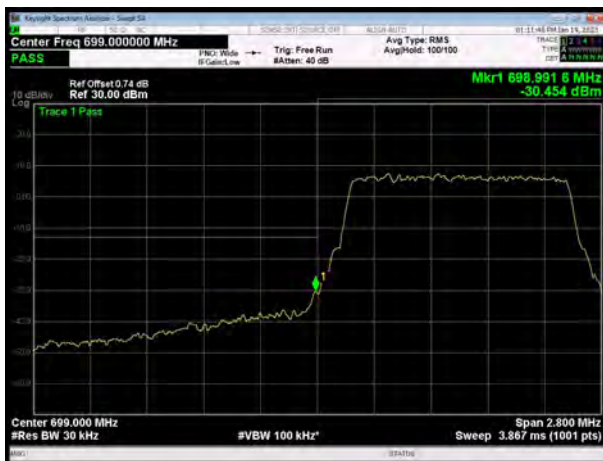
LTE Band 12 64QAM 1.4MHz CH-Low, 1 RB



LTE Band 12 64QAM 1.4MHz CH-High, 1 RB



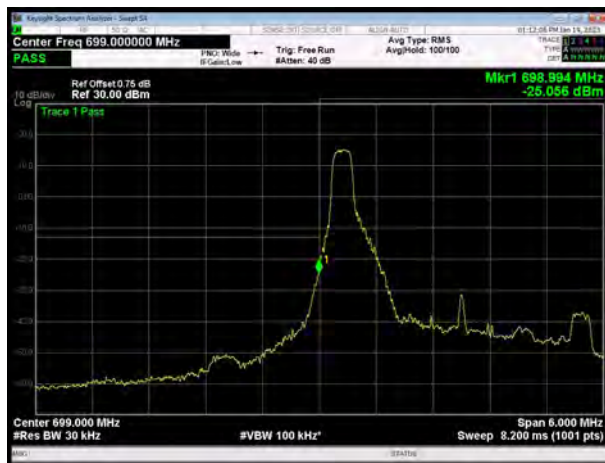
LTE Band 12 64QAM 1.4MHz CH-Low, 100%RB



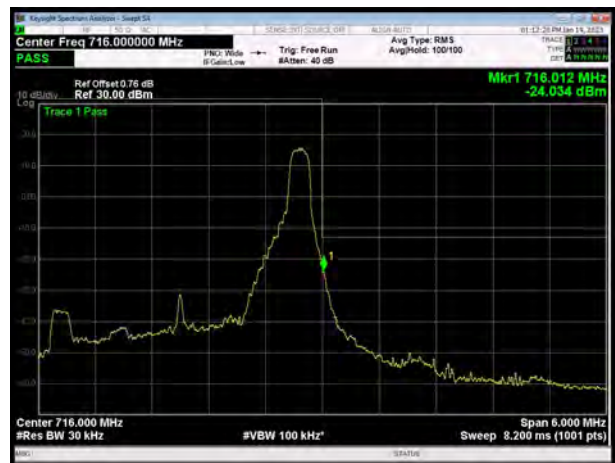
LTE Band 12 64QAM 1.4MHz CH-High, 100%RB



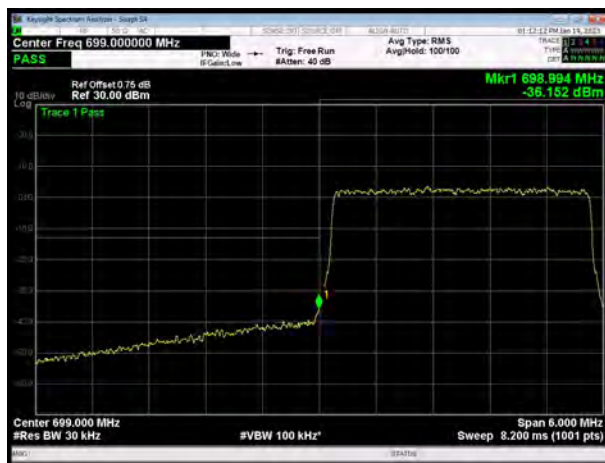
LTE Band 12 64QAM 3MHz CH-Low, 1 RB



LTE Band 12 64QAM 3MHz CH-High, 1 RB



LTE Band 12 64QAM 3MHz CH-Low, 100%RB



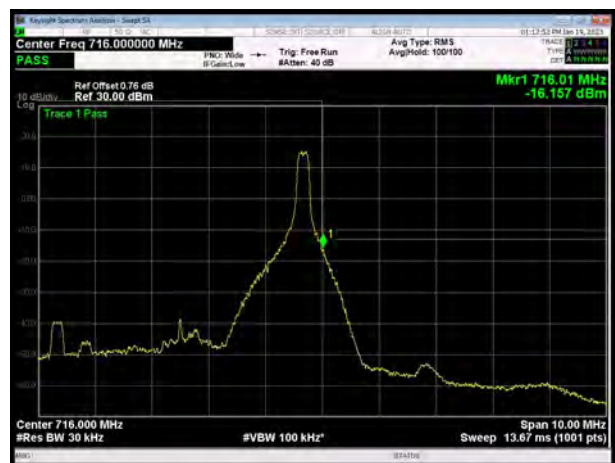
LTE Band 12 64QAM 3MHz CH-High, 100%RB



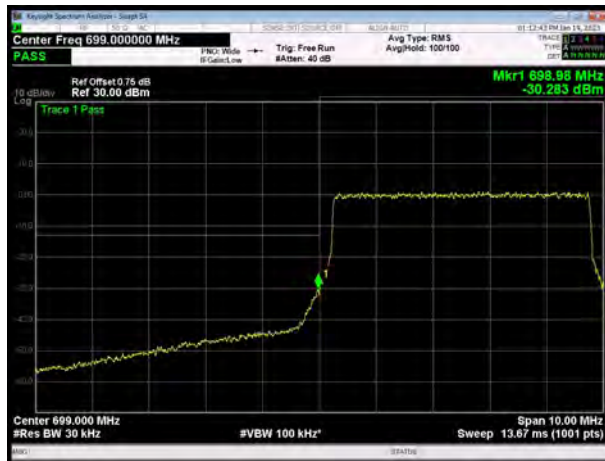
LTE Band 12 64QAM 5MHz CH-Low, 1 RB



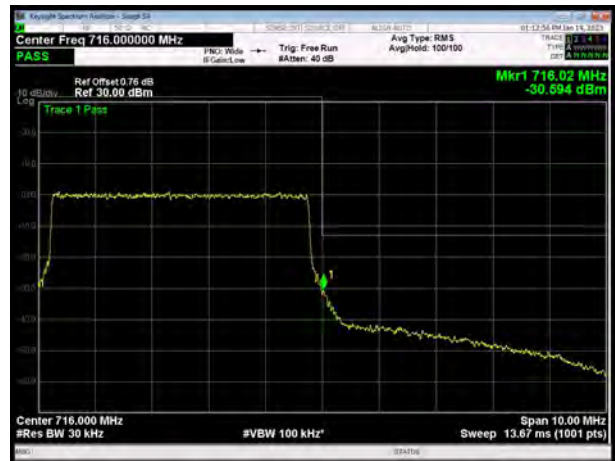
LTE Band 12 64QAM 5MHz CH-High, 1 RB



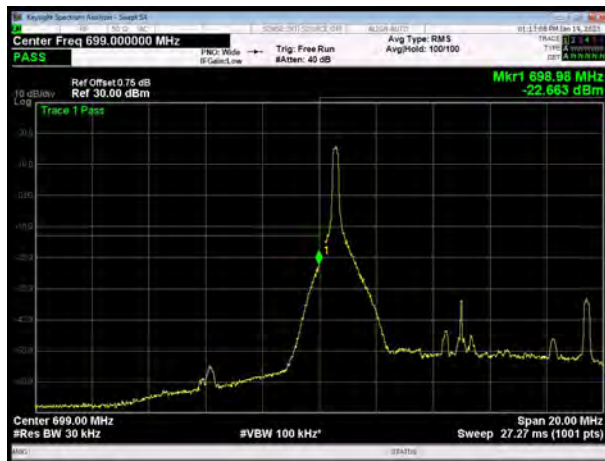
LTE Band 12 64QAM 5MHz CH-Low, 100%RB



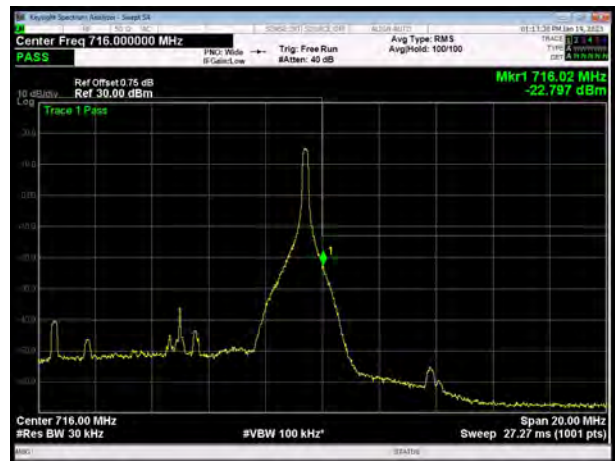
LTE Band 12 64QAM 5MHz CH-High, 100%RB



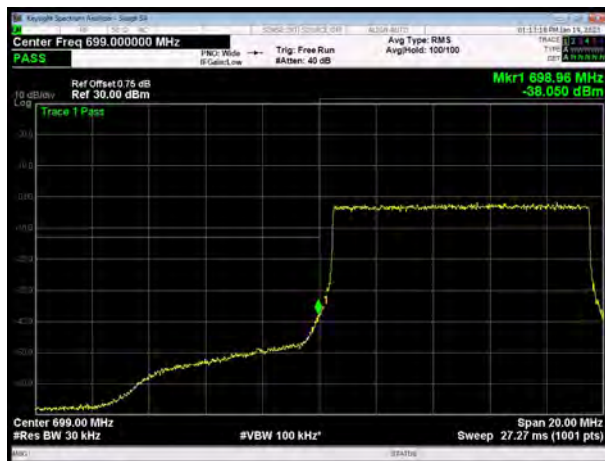
LTE Band 12 64QAM 10MHz CH-Low, 1 RB



LTE Band 12 64QAM 10MHz CH-High, 1 RB



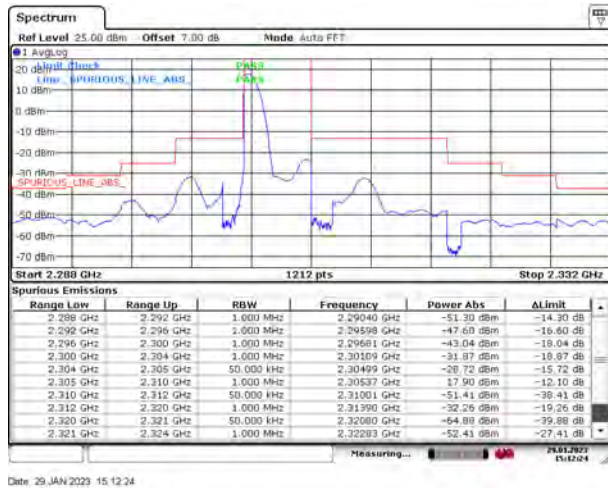
LTE Band 12 64QAM 10MHz CH-Low, 100%RB



LTE Band 12 64QAM 10MHz CH-High, 100%RB

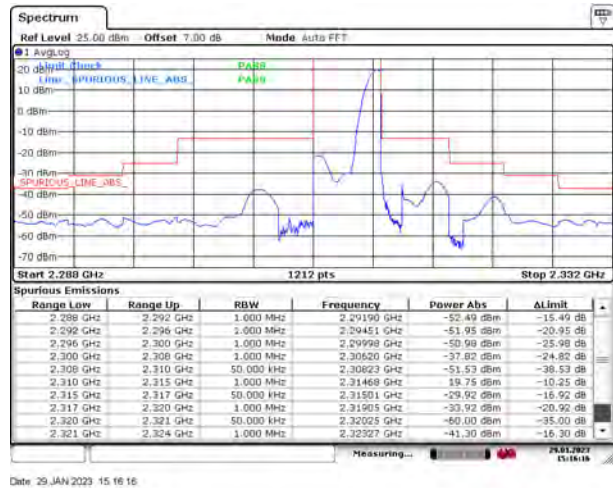


LTE Band 30 16QAM 5MHz CH-Low, 1 RB



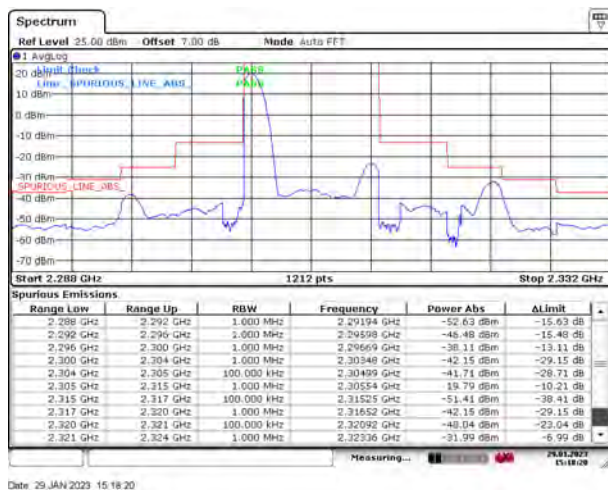
Date: 29 JAN 2023 15:12:24

LTE Band 30 16QAM 5MHz CH-High, 1 RB



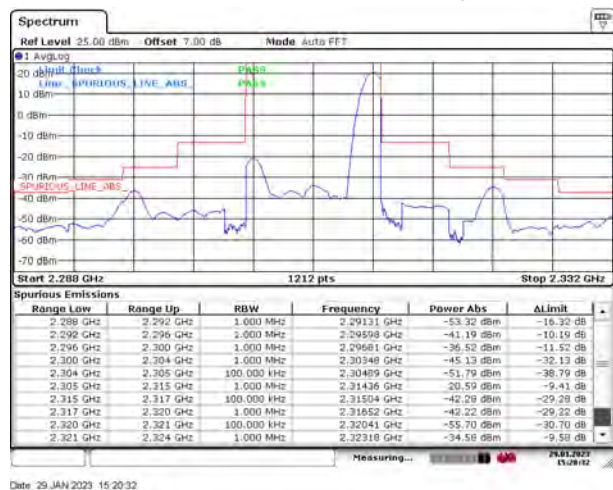
Date: 29 JAN 2023 15:16:16

LTE Band 30 16QAM 10MHz CH-Low, 1 RB



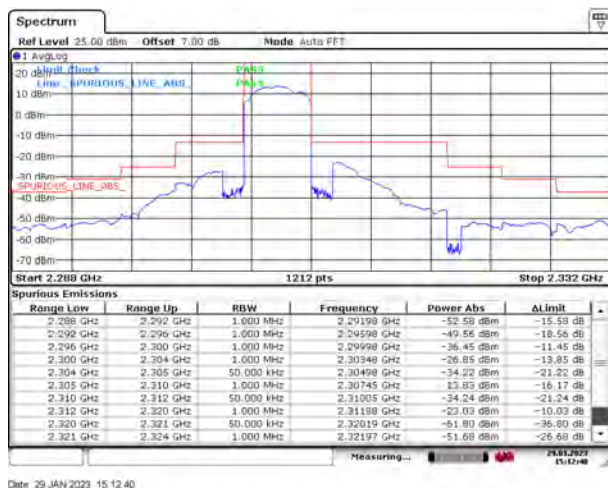
Date: 29 JAN 2023 15:18:20

LTE Band 30 16QAM 10MHz CH-High, 1 RB



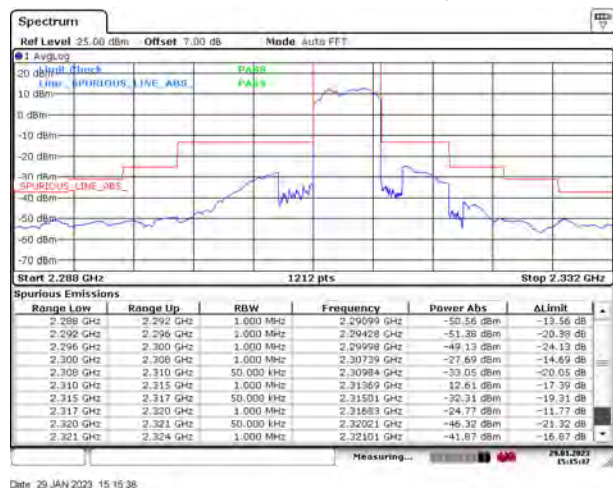
Date: 29 JAN 2023 15:20:32

LTE Band 30 16QAM 5MHz CH-Low, 100%RB



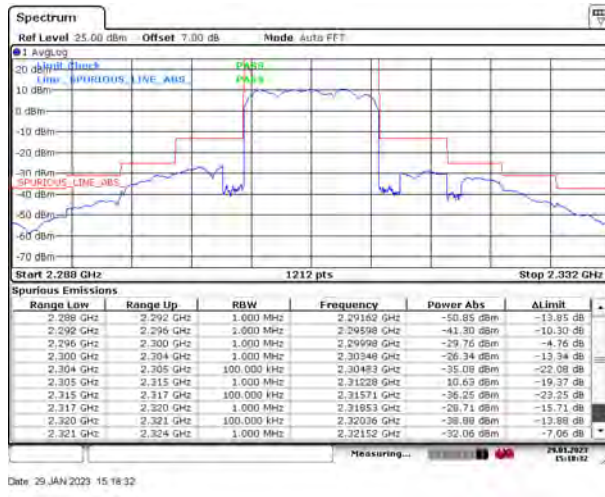
Date: 29 JAN 2023 15:12:40

LTE Band 30 16QAM 5MHz CH-High, 100%RB

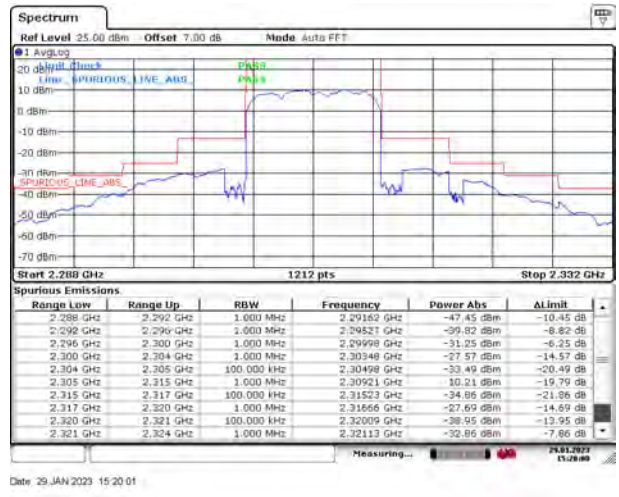


Date: 29 JAN 2023 15:15:38

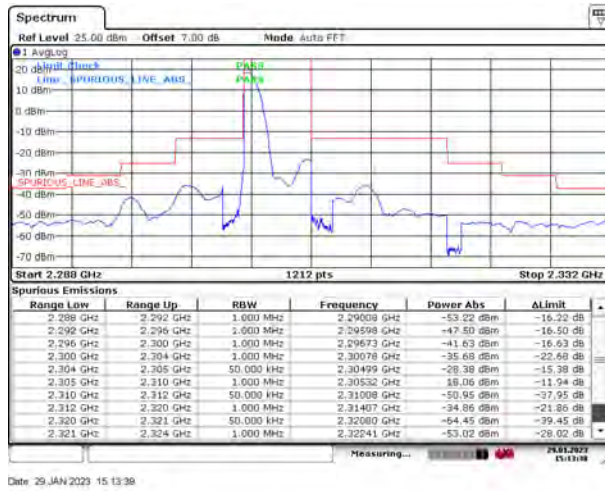
LTE Band 30 16QAM 10MHz CH-Low, 100%RB



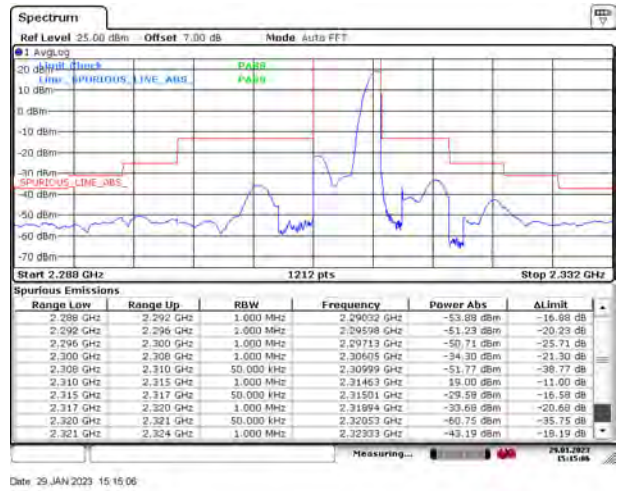
LTE Band 30 16QAM 10MHz CH-High, 100%RB



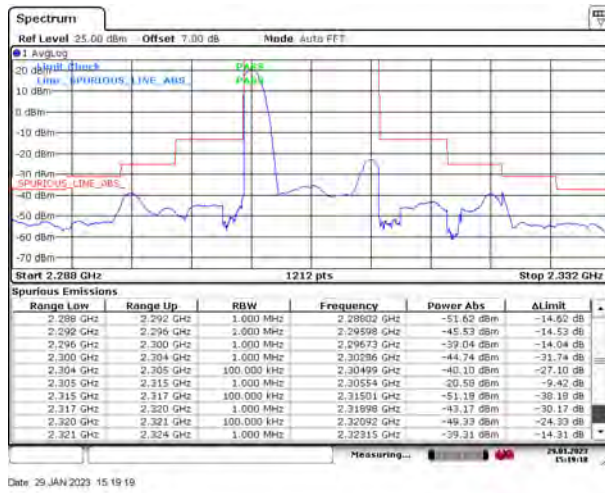
LTE Band 30 64QAM 5MHz CH-Low, 1 RB



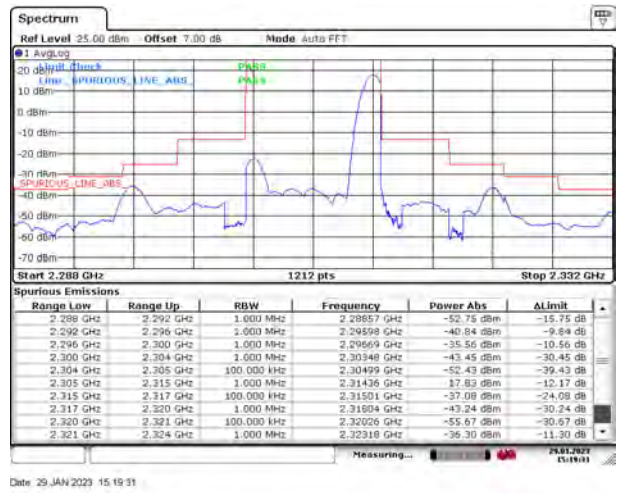
LTE Band 30 64QAM 5MHz CH-High, 1 RB



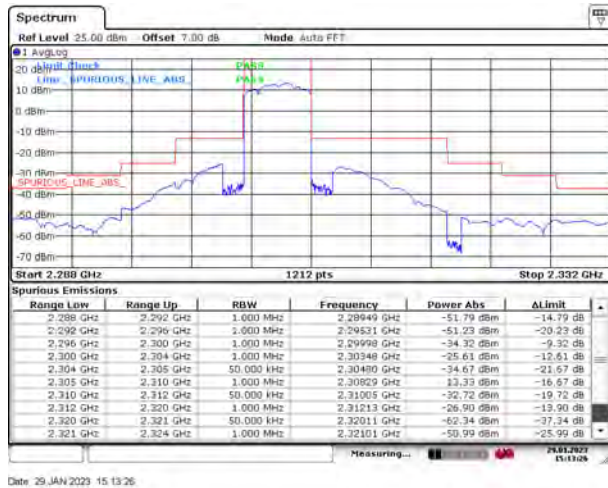
LTE Band 30 64QAM 10MHz CH-Low, 1 RB



LTE Band 30 64QAM 10MHz CH-High, 1 RB

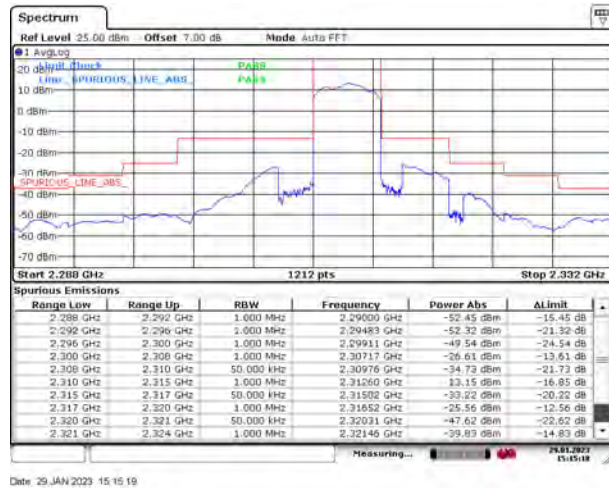


LTE Band 30 64QAM 5MHz CH-Low, 100%RB



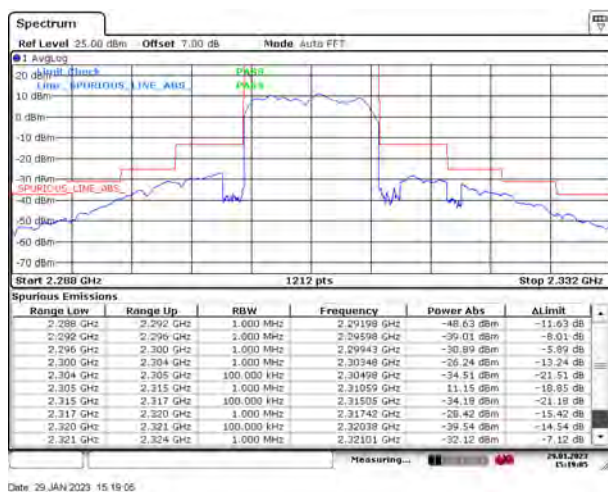
Date: 29 JAN 2023 15:13:26

LTE Band 30 64QAM 5MHz CH-High, 100%RB



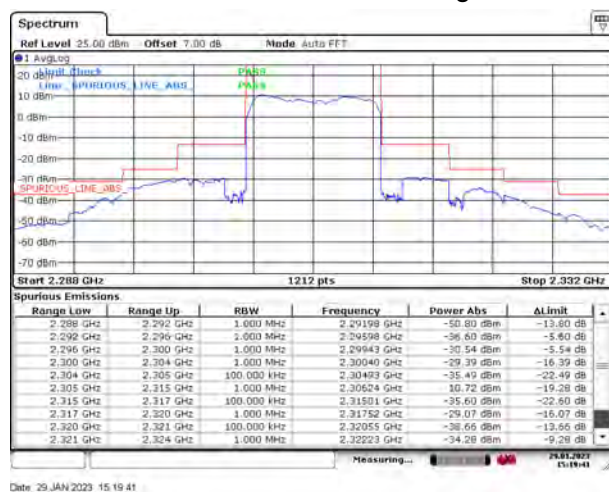
Date: 29 JAN 2023 15:15:19

LTE Band 30 64QAM 10MHz CH-Low, 100%RB



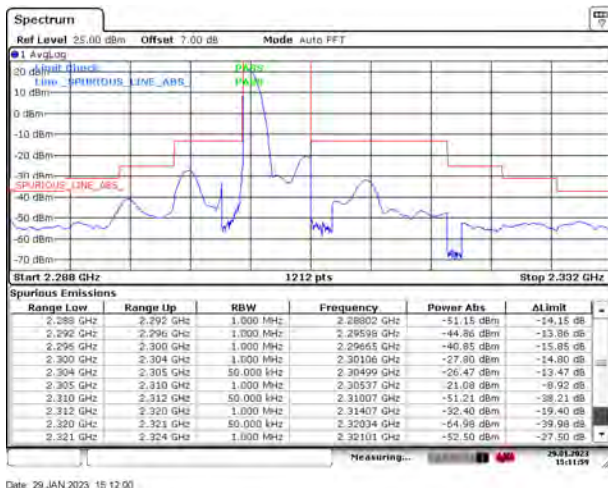
Date: 29 JAN 2023 15:19:05

LTE Band 30 64QAM 10MHz CH-High, 100%RB



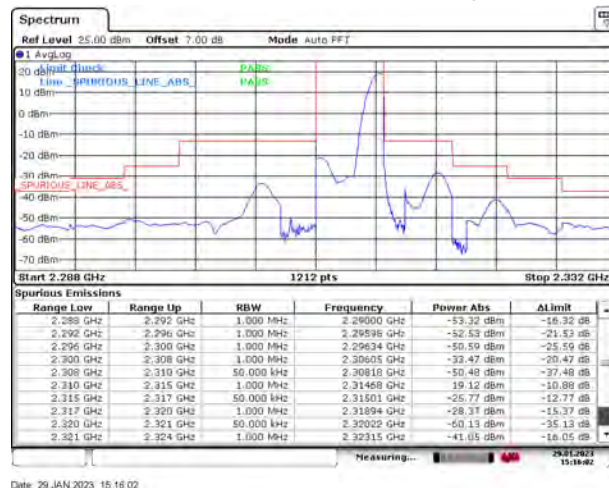
Date: 29 JAN 2023 15:19:41

LTE Band 30 QPSK 5MHz CH-Low, 1 RB



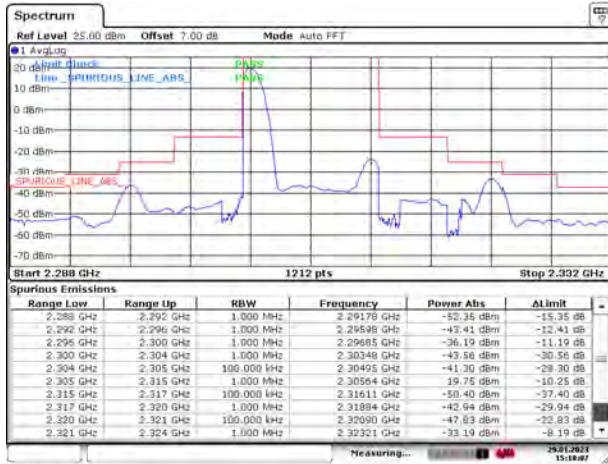
Date: 29 JAN 2023 15:12:00

LTE Band 30 QPSK 5MHz CH-High, 1 RB



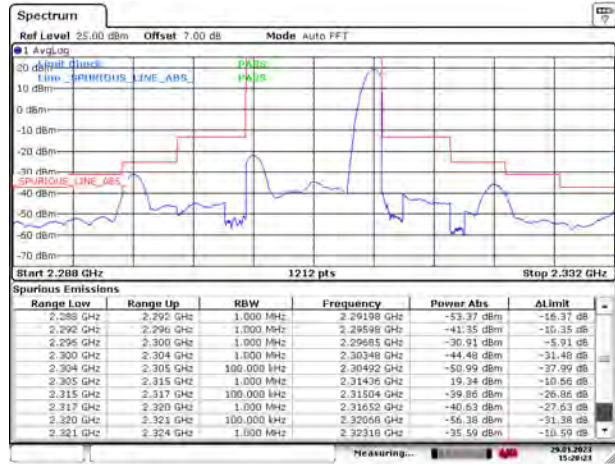
Date: 29 JAN 2023 15:16:02

LTE Band 30 QPSK 10MHz CH-Low, 1 RB



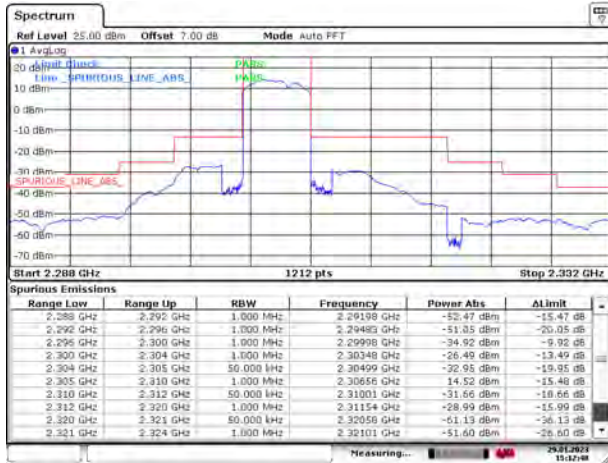
Date: 29 JAN 2023 15:18:08

LTE Band 30 QPSK 10MHz CH-High, 1 RB



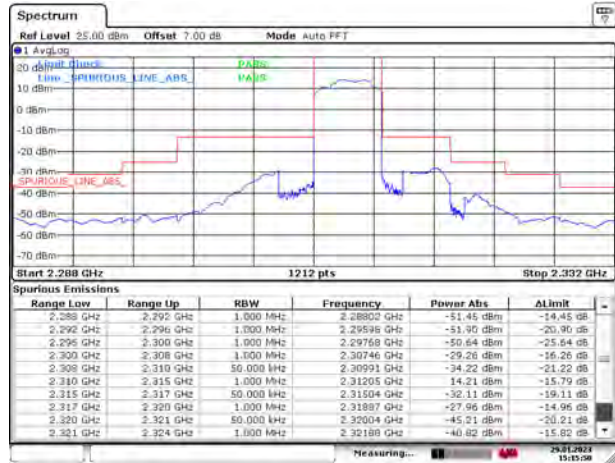
Date: 29 JAN 2023 15:20:24

LTE Band 30 QPSK 5MHz CH-Low, 100%RB



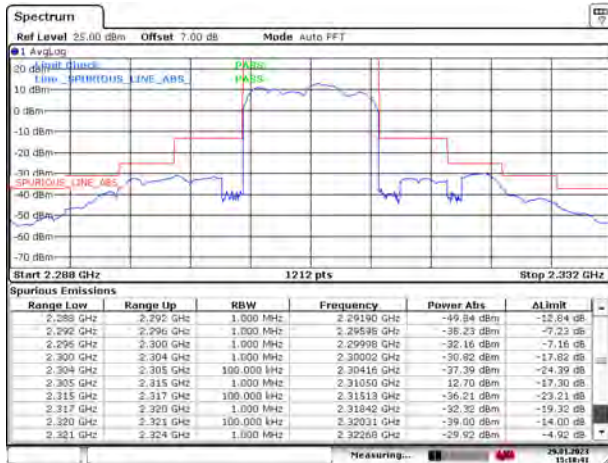
Date: 29 JAN 2023 15:12:48

LTE Band 30 QPSK 5MHz CH-Low, 100%RB



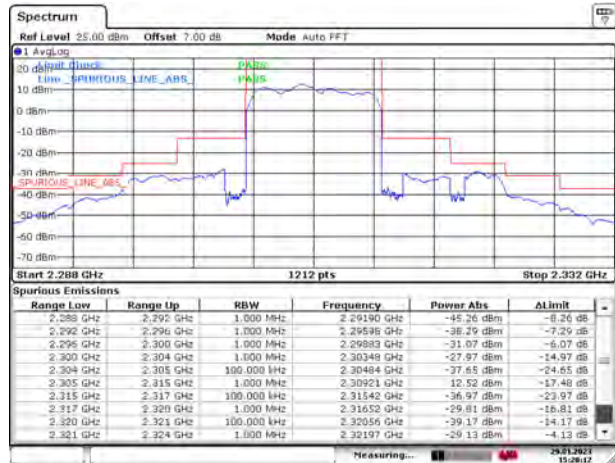
Date: 29 JAN 2023 15:15:50

LTE Band 30 QPSK 10MHz CH-Low, 100%RB



Date: 29 JAN 2023 15:18:41

LTE Band 30 QPSK 10MHz CH-Low, 100%RB



Date: 29 JAN 2023 15:20:13

6.4 Peak-to-Average Power Ratio (PAPR)

WCDMA Band IV	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
RMC	1312	1712.4	25.61	22.84	2.77	≤13	PASS
	1413	1732.6	25.91	22.96	2.95	≤13	PASS
	1513	1752.6	25.80	23.08	2.72	≤13	PASS

LTE Band 4								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	19957	1710.7	27.08	22.63	4.45	≤13	PASS
		20175	1732.5	27.41	22.45	4.96	≤13	PASS
		20393	1754.3	26.74	22.41	4.33	≤13	PASS
	3	19965	1711.5	27.12	22.57	4.55	≤13	PASS
		20175	1732.5	27.39	22.41	4.98	≤13	PASS
		20385	1753.5	26.86	22.32	4.54	≤13	PASS
	5	19975	1712.5	27.21	22.56	4.65	≤13	PASS
		20175	1732.5	27.46	22.43	5.03	≤13	PASS
		20375	1752.5	26.96	22.33	4.63	≤13	PASS
	10	20000	1715	27.36	22.62	4.74	≤13	PASS
		20175	1732.5	27.54	22.50	5.04	≤13	PASS
		20350	1750	27.13	22.37	4.76	≤13	PASS
	15	20025	1717.5	27.84	22.66	5.18	≤13	PASS
		20175	1732.5	27.99	22.55	5.44	≤13	PASS
		20325	1747.5	27.68	22.50	5.18	≤13	PASS
	20	20050	1720	27.80	22.53	5.27	≤13	PASS
		20175	1732.5	27.76	22.46	5.30	≤13	PASS
		20300	1745	27.60	22.37	5.23	≤13	PASS
16QAM	1.4	19957	1710.7	26.90	21.57	5.33	≤13	PASS
		20175	1732.5	27.11	21.40	5.71	≤13	PASS
		20393	1754.3	26.67	21.41	5.26	≤13	PASS
	3	19965	1711.5	26.99	21.54	5.45	≤13	PASS
		20175	1732.5	27.13	21.39	5.74	≤13	PASS
		20385	1753.5	26.74	21.31	5.43	≤13	PASS
	5	19975	1712.5	27.04	21.60	5.44	≤13	PASS
		20175	1732.5	27.30	21.46	5.84	≤13	PASS
		20375	1752.5	26.78	21.34	5.44	≤13	PASS
	10	20000	1715	27.17	21.62	5.55	≤13	PASS

		20175	1732.5	27.40	21.48	5.92	≤13	PASS
		20350	1750	26.97	21.38	5.59	≤13	PASS
		20025	1717.5	27.48	21.63	5.85	≤13	PASS
	15	20175	1732.5	27.59	21.52	6.07	≤13	PASS
		20325	1747.5	27.30	21.43	5.87	≤13	PASS
		20050	1720	27.52	21.54	5.98	≤13	PASS
	20	20175	1732.5	27.53	21.47	6.06	≤13	PASS
		20300	1745	27.37	21.39	5.98	≤13	PASS
		20025	1717.5	27.48	21.63	5.85	≤13	PASS
64QAM	1.4	19957	1710.7	26.40	21.04	5.36	≤13	PASS
		20175	1732.5	26.61	20.95	5.66	≤13	PASS
		20393	1754.3	26.14	20.85	5.29	≤13	PASS
	3	19965	1711.5	26.50	21.01	5.49	≤13	PASS
		20175	1732.5	26.65	20.85	5.80	≤13	PASS
		20385	1753.5	26.23	20.79	5.44	≤13	PASS
	5	19975	1712.5	26.53	21.05	5.48	≤13	PASS
		20175	1732.5	26.80	20.95	5.85	≤13	PASS
		20375	1752.5	26.26	20.80	5.46	≤13	PASS
	10	20000	1715	26.71	21.10	5.61	≤13	PASS
		20175	1732.5	26.86	20.96	5.90	≤13	PASS
		20350	1750	26.45	20.84	5.61	≤13	PASS
	15	20025	1717.5	26.94	21.08	5.86	≤13	PASS
		20175	1732.5	27.04	20.99	6.05	≤13	PASS
		20325	1747.5	26.79	20.91	5.88	≤13	PASS
	20	20050	1720	27.00	21.01	5.99	≤13	PASS
		20175	1732.5	27.02	20.94	6.08	≤13	PASS
		20300	1745	26.85	20.84	6.01	≤13	PASS

LTE Band 7								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	20775	2502.5	26.24	21.30	4.94	≤13	PASS
		21100	2535	26.35	21.13	5.22	≤13	PASS
		21425	2567.5	26.33	21.32	5.01	≤13	PASS
	10	20800	2505	26.37	21.31	5.06	≤13	PASS
		21100	2535	26.44	21.21	5.23	≤13	PASS
		21400	2565	26.41	21.36	5.05	≤13	PASS
	15	20825	2507.5	26.76	21.37	5.39	≤13	PASS
		21100	2535	26.81	21.26	5.55	≤13	PASS

		21375	2562.5	26.88	21.44	5.44	≤13	PASS
	20	20850	2510	26.54	21.24	5.30	≤13	PASS
		21100	2535	26.57	21.17	5.40	≤13	PASS
		21350	2560	26.68	21.32	5.36	≤13	PASS
16QAM	5	20775	2502.5	26.13	20.34	5.79	≤13	PASS
		21100	2535	26.18	20.19	5.99	≤13	PASS
		21425	2567.5	26.19	20.40	5.79	≤13	PASS
	10	20800	2505	26.18	20.36	5.82	≤13	PASS
		21100	2535	26.27	20.28	5.99	≤13	PASS
		21400	2565	26.27	20.38	5.89	≤13	PASS
	15	20825	2507.5	26.41	20.35	6.06	≤13	PASS
		21100	2535	26.44	20.27	6.17	≤13	PASS
		21375	2562.5	26.51	20.42	6.09	≤13	PASS
	20	20850	2510	26.38	20.30	6.08	≤13	PASS
		21100	2535	26.42	20.26	6.16	≤13	PASS
		21350	2560	26.44	20.36	6.08	≤13	PASS
64QAM	5	20775	2502.5	25.83	20.09	5.74	≤13	PASS
		21100	2535	25.80	19.87	5.93	≤13	PASS
		21425	2567.5	25.82	19.96	5.86	≤13	PASS
	10	20800	2505	25.92	20.07	5.85	≤13	PASS
		21100	2535	25.92	19.93	5.99	≤13	PASS
		21400	2565	25.94	20.03	5.91	≤13	PASS
	15	20825	2507.5	26.14	20.07	6.07	≤13	PASS
		21100	2535	26.08	19.91	6.17	≤13	PASS
		21375	2562.5	26.10	20.03	6.07	≤13	PASS
	20	20850	2510	26.09	19.99	6.10	≤13	PASS
		21100	2535	26.05	19.90	6.15	≤13	PASS
		21350	2560	26.09	19.98	6.11	≤13	PASS

LTE Band 12								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	23017	699.7	27.68	22.56	5.12	≤13	PASS
		23095	707.5	27.66	22.31	5.35	≤13	PASS
		23173	715.3	27.18	22.39	4.79	≤13	PASS
	3	23025	700.5	27.72	22.53	5.19	≤13	PASS
		23095	707.5	27.60	22.28	5.32	≤13	PASS
		23165	714.5	27.28	22.45	4.83	≤13	PASS
	5	23035	701.5	27.86	22.62	5.24	≤13	PASS
		23095	707.5	27.68	22.38	5.30	≤13	PASS
		23155	713.5	27.49	22.48	5.01	≤13	PASS
	10	23060	704	27.87	22.54	5.33	≤13	PASS
		23095	707.5	27.66	22.44	5.22	≤13	PASS
		23130	711	27.76	22.48	5.28	≤13	PASS
16QAM	1.4	23017	699.7	27.48	21.53	5.95	≤13	PASS
		23095	707.5	27.40	21.32	6.08	≤13	PASS
		23173	715.3	27.13	21.40	5.73	≤13	PASS
	3	23025	700.5	27.57	21.52	6.05	≤13	PASS
		23095	707.5	27.42	21.28	6.14	≤13	PASS
		23165	714.5	27.18	21.45	5.73	≤13	PASS
	5	23035	701.5	27.58	21.64	5.94	≤13	PASS
		23095	707.5	27.49	21.40	6.09	≤13	PASS
		23155	713.5	27.22	21.48	5.74	≤13	PASS
	10	23060	704	27.65	21.55	6.10	≤13	PASS
		23095	707.5	27.50	21.44	6.06	≤13	PASS
		23130	711	27.49	21.48	6.01	≤13	PASS
64QAM	1.4	23017	699.7	27.28	21.33	5.95	≤13	PASS
		23095	707.5	27.14	21.11	6.03	≤13	PASS
		23173	715.3	26.86	21.18	5.68	≤13	PASS
	3	23025	700.5	27.36	21.33	6.03	≤13	PASS
		23095	707.5	27.20	21.08	6.12	≤13	PASS
		23165	714.5	26.87	21.16	5.71	≤13	PASS
	5	23035	701.5	27.29	21.34	5.95	≤13	PASS
		23095	707.5	27.20	21.11	6.09	≤13	PASS
		23155	713.5	26.91	21.15	5.76	≤13	PASS
	10	23060	704	27.34	21.25	6.09	≤13	PASS
		23095	707.5	27.19	21.13	6.06	≤13	PASS
		23130	711	27.25	21.20	6.05	≤13	PASS

LTE Band 30								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	38725	2307.5	27.68	22.58	5.10	≤13	PASS
		38750	2310	27.67	22.52	5.15	≤13	PASS
		38775	2312.5	27.62	22.44	5.18	≤13	PASS
	10	38750	2310	27.73	22.55	5.18	≤13	PASS
16QAM	5	38725	2307.5	27.39	21.56	5.83	≤13	PASS
		38750	2310	27.39	21.49	5.90	≤13	PASS
		38775	2312.5	27.48	21.47	6.01	≤13	PASS
	10	38750	2310	27.53	21.52	6.01	≤13	PASS
64QAM	5	38725	2307.5	26.96	21.11	5.85	≤13	PASS
		38750	2310	26.90	21.01	5.89	≤13	PASS
		38775	2312.5	27.01	21.02	5.99	≤13	PASS
	10	38750	2310	27.00	21.00	6.00	≤13	PASS

6.5 Frequency Stability

WCDMA Band IV						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	QPSK	BPSK	QPSK	BPSK	
Normal (25°C)	Normal	5.54	3.33	0.00320	0.00192	PASS
Extreme (50°C)		14.87	14.65	0.00858	0.00845	PASS
Extreme (40°C)		11.95	3.06	0.00690	0.00177	PASS
Extreme (30°C)		3.88	14.45	0.00224	0.00834	PASS
Extreme (20°C)		16.60	12.72	0.00958	0.00734	PASS
Extreme (10°C)		13.11	14.64	0.00757	0.00845	PASS
Extreme (0°C)		2.42	11.34	0.00140	0.00655	PASS
Extreme (-10°C)		17.67	6.30	0.01020	0.00364	PASS
Extreme (-20°C)		14.94	13.55	0.00862	0.00782	PASS
Extreme (-30°C)		13.26	6.87	0.00765	0.00396	PASS
25°C	LV	6.76	8.29	0.00390	0.00478	PASS
	HV	5.50	4.35	0.00317	0.00251	PASS

LTE Band 4								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	13.55	12.89	16.06	0.00782	0.00744	0.00927	PASS
Extreme (50℃)		5.27	17.63	8.07	0.00304	0.01017	0.00466	PASS
Extreme (40℃)		10.99	12.64	18.00	0.00634	0.00730	0.01039	PASS
Extreme (30℃)		4.32	8.67	1.73	0.00250	0.00501	0.00100	PASS
Extreme (20℃)		9.53	7.69	13.96	0.00550	0.00444	0.00806	PASS
Extreme (10℃)		17.56	5.52	14.12	0.01014	0.00318	0.00815	PASS
Extreme (0℃)		13.64	13.68	11.88	0.00788	0.00790	0.00686	PASS
Extreme (-10℃)		9.06	16.97	1.06	0.00523	0.00980	0.00061	PASS
Extreme (-20℃)		14.65	15.77	4.67	0.00846	0.00910	0.00270	PASS
Extreme (-30℃)		10.73	16.92	11.51	0.00619	0.00976	0.00664	PASS
25℃	LV	2.12	12.24	13.59	0.00123	0.00707	0.00784	PASS
	HV	12.31	3.49	3.72	0.00710	0.00201	0.00215	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.88	3.26	13.64	0.00512	0.00188	0.00787	PASS
Extreme (50℃)		14.34	3.19	12.12	0.00828	0.00184	0.00700	PASS
Extreme (40℃)		14.06	6.47	10.23	0.00811	0.00374	0.00591	PASS
Extreme (30℃)		8.75	8.49	2.61	0.00505	0.00490	0.00151	PASS
Extreme (20℃)		1.48	16.19	8.72	0.00086	0.00934	0.00503	PASS
Extreme (10℃)		7.37	3.03	13.22	0.00425	0.00175	0.00763	PASS
Extreme (0℃)		8.75	5.84	9.30	0.00505	0.00337	0.00537	PASS
Extreme (-10℃)		11.49	10.05	11.83	0.00663	0.00580	0.00683	PASS
Extreme (-20℃)		1.65	13.34	13.16	0.00095	0.00770	0.00760	PASS
Extreme (-30℃)		5.48	14.47	14.03	0.00316	0.00835	0.00810	PASS
25℃	LV	6.87	10.32	4.38	0.00396	0.00595	0.00253	PASS
	HV	12.54	5.86	7.00	0.00724	0.00338	0.00404	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	17.52	2.32	10.45	0.01011	0.00134	0.00603	PASS
Extreme (50℃)		8.63	3.84	10.85	0.00498	0.00222	0.00626	PASS
Extreme (40℃)		15.07	15.97	4.07	0.00870	0.00922	0.00235	PASS
Extreme (30℃)		14.70	17.30	6.76	0.00849	0.00999	0.00390	PASS
Extreme (20℃)		16.04	17.43	1.26	0.00926	0.01006	0.00073	PASS
Extreme (10℃)		10.25	4.72	15.49	0.00592	0.00273	0.00894	PASS

Extreme (0℃)		2.79	15.74	5.86	0.00161	0.00908	0.00338	PASS
Extreme (-10℃)		14.11	16.76	3.94	0.00814	0.00968	0.00227	PASS
Extreme (-20℃)		1.02	13.42	10.79	0.00059	0.00774	0.00623	PASS
Extreme (-30℃)		15.98	17.77	14.94	0.00923	0.01025	0.00862	PASS
25℃	LV	7.06	3.34	17.28	0.00407	0.00193	0.00997	PASS
	HV	9.06	10.15	13.64	0.00523	0.00586	0.00787	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.57	6.51	2.25	0.00495	0.00376	0.00130	PASS
Extreme (50℃)		11.78	7.04	17.95	0.00680	0.00406	0.01036	PASS
Extreme (40℃)		13.95	13.96	15.86	0.00805	0.00806	0.00915	PASS
Extreme (30℃)		17.09	9.97	7.79	0.00986	0.00575	0.00450	PASS
Extreme (20℃)		17.96	8.80	2.30	0.01037	0.00508	0.00133	PASS
Extreme (10℃)		2.38	12.15	11.05	0.00138	0.00701	0.00638	PASS
Extreme (0℃)		7.72	11.27	7.73	0.00446	0.00651	0.00446	PASS
Extreme (-10℃)		4.51	2.91	15.35	0.00260	0.00168	0.00886	PASS
Extreme (-20℃)		11.93	5.39	12.58	0.00689	0.00311	0.00726	PASS
Extreme (-30℃)		3.93	10.04	6.17	0.00227	0.00579	0.00356	PASS
25℃	LV	10.51	7.61	4.26	0.00607	0.00439	0.00246	PASS
	HV	11.36	3.90	2.11	0.00656	0.00225	0.00122	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	6.98	4.60	16.74	0.00403	0.00265	0.00966	PASS
Extreme (50℃)		3.58	2.74	6.62	0.00206	0.00158	0.00382	PASS
Extreme (40℃)		15.24	15.79	7.13	0.00880	0.00911	0.00411	PASS
Extreme (30℃)		14.08	1.62	14.58	0.00813	0.00093	0.00841	PASS
Extreme (20℃)		3.97	1.96	16.11	0.00229	0.00113	0.00930	PASS
Extreme (10℃)		9.28	13.66	1.15	0.00535	0.00788	0.00067	PASS
Extreme (0℃)		1.33	13.77	16.80	0.00077	0.00795	0.00969	PASS
Extreme (-10℃)		7.59	4.73	5.14	0.00438	0.00273	0.00297	PASS
Extreme (-20℃)		10.81	7.57	12.36	0.00624	0.00437	0.00713	PASS
Extreme (-30℃)		16.28	9.30	7.90	0.00940	0.00537	0.00456	PASS
25℃	LV	14.10	6.37	13.44	0.00814	0.00367	0.00776	PASS
	HV	8.58	16.07	2.95	0.00495	0.00927	0.00170	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	13.41	8.88	7.51	0.00774	0.00512	0.00434	PASS

Test Report		Report for: 25°C						
Extreme (50°C)		10.32	6.64	3.05	0.00596	0.00383	0.00176	PASS
Extreme (40°C)		15.23	11.99	8.80	0.00879	0.00692	0.00508	PASS
Extreme (30°C)		6.91	8.05	9.19	0.00399	0.00465	0.00531	PASS
Extreme (20°C)		16.04	3.95	16.07	0.00926	0.00228	0.00928	PASS
Extreme (10°C)		17.93	12.56	4.48	0.01035	0.00725	0.00259	PASS
Extreme (0°C)		2.07	16.63	9.39	0.00119	0.00960	0.00542	PASS
Extreme (-10°C)		6.32	15.02	15.93	0.00365	0.00867	0.00920	PASS
Extreme (-20°C)		11.85	11.44	10.44	0.00684	0.00660	0.00602	PASS
Extreme (-30°C)		15.70	17.90	15.97	0.00906	0.01033	0.00922	PASS
25°C	LV	4.78	12.27	17.96	0.00276	0.00708	0.01037	PASS
	HV	14.85	7.45	11.33	0.00857	0.00430	0.00654	PASS

LTE Band 7								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.75	13.30	2.61	0.00424	0.00525	0.00103	PASS
Extreme (50℃)		8.09	16.70	9.68	0.00319	0.00659	0.00382	PASS
Extreme (40℃)		1.51	6.90	9.81	0.00059	0.00272	0.00387	PASS
Extreme (30℃)		16.23	6.28	6.56	0.00640	0.00248	0.00259	PASS
Extreme (20℃)		6.78	3.41	9.58	0.00267	0.00135	0.00378	PASS
Extreme (10℃)		7.59	7.76	2.66	0.00299	0.00306	0.00105	PASS
Extreme (0℃)		5.40	15.46	15.03	0.00213	0.00610	0.00593	PASS
Extreme (-10℃)		5.74	16.57	3.14	0.00226	0.00654	0.00124	PASS
Extreme (-20℃)		2.78	8.45	6.23	0.00110	0.00334	0.00246	PASS
Extreme (-30℃)		3.16	13.52	6.62	0.00125	0.00533	0.00261	PASS
25℃	LV	4.20	16.62	16.55	0.00166	0.00655	0.00653	PASS
	HV	4.98	13.75	16.31	0.00196	0.00543	0.00644	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.56	6.79	13.37	0.00220	0.00268	0.00528	PASS
Extreme (50℃)		5.59	13.29	11.41	0.00221	0.00524	0.00450	PASS
Extreme (40℃)		14.32	3.56	3.52	0.00565	0.00141	0.00139	PASS
Extreme (30℃)		16.58	4.68	2.97	0.00654	0.00185	0.00117	PASS
Extreme (20℃)		6.80	1.21	7.15	0.00268	0.00048	0.00282	PASS
Extreme (10℃)		7.32	15.86	7.22	0.00289	0.00626	0.00285	PASS
Extreme (0℃)		9.90	10.31	6.79	0.00390	0.00407	0.00268	PASS
Extreme (-10℃)		5.23	10.58	2.24	0.00206	0.00418	0.00088	PASS
Extreme (-20℃)		9.58	5.39	3.96	0.00378	0.00212	0.00156	PASS
Extreme (-30℃)		10.42	2.10	4.10	0.00411	0.00083	0.00162	PASS
25℃	LV	5.81	13.70	7.98	0.00229	0.00541	0.00315	PASS
	HV	5.58	3.74	11.09	0.00220	0.00148	0.00437	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	17.76	11.68	9.51	0.00701	0.00461	0.00375	PASS
Extreme (50℃)		5.71	2.56	2.62	0.00225	0.00101	0.00103	PASS
Extreme (40℃)		10.30	1.79	15.95	0.00406	0.00070	0.00629	PASS
Extreme (30℃)		13.16	5.99	16.38	0.00519	0.00236	0.00646	PASS
Extreme (20℃)		14.91	12.50	4.36	0.00588	0.00493	0.00172	PASS
Extreme (10℃)		10.56	5.20	16.50	0.00417	0.00205	0.00651	PASS

Extreme (0℃)		6.23	16.57	11.20	0.00246	0.00654	0.00442	PASS
Extreme (-10℃)		17.45	5.14	1.89	0.00688	0.00203	0.00075	PASS
Extreme (-20℃)		17.54	8.58	7.79	0.00692	0.00338	0.00307	PASS
Extreme (-30℃)		16.94	11.81	6.17	0.00668	0.00466	0.00244	PASS
25℃	LV	5.14	1.61	4.94	0.00203	0.00064	0.00195	PASS
	HV	11.98	13.82	8.99	0.00472	0.00545	0.00354	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.90	9.52	8.51	0.00233	0.00375	0.00336	PASS
Extreme (50℃)		9.91	5.90	13.49	0.00391	0.00233	0.00532	PASS
Extreme (40℃)		8.15	3.42	13.10	0.00321	0.00135	0.00517	PASS
Extreme (30℃)		12.87	17.70	1.82	0.00508	0.00698	0.00072	PASS
Extreme (20℃)		12.70	12.44	7.90	0.00501	0.00491	0.00312	PASS
Extreme (10℃)		9.49	15.24	7.72	0.00374	0.00601	0.00305	PASS
Extreme (0℃)		12.93	3.05	15.71	0.00510	0.00120	0.00620	PASS
Extreme (-10℃)		14.22	2.57	14.65	0.00561	0.00102	0.00578	PASS
Extreme (-20℃)		5.51	15.54	8.94	0.00217	0.00613	0.00353	PASS
Extreme (-30℃)		6.86	4.80	10.51	0.00271	0.00189	0.00415	PASS
25℃	LV	1.63	10.93	11.85	0.00064	0.00431	0.00467	PASS
	HV	4.29	1.75	1.73	0.00169	0.00069	0.00068	PASS

LTE Band 12								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Temperature	Voltage							
Normal (25℃)	Normal	12.01	1.91	12.52	0.01629	0.00260	0.01697	PASS
Extreme (50℃)		10.30	6.14	16.68	0.01396	0.00833	0.02261	PASS
Extreme (40℃)		4.47	2.31	9.27	0.00606	0.00314	0.01257	PASS
Extreme (30℃)		5.38	8.78	9.36	0.00730	0.01191	0.01270	PASS
Extreme (20℃)		5.24	6.78	2.58	0.00711	0.00920	0.00350	PASS
Extreme (10℃)		12.44	16.63	14.68	0.01687	0.02256	0.01991	PASS
Extreme (0℃)		5.83	2.15	17.40	0.00791	0.00291	0.02359	PASS
Extreme (-10℃)		6.04	11.37	5.53	0.00818	0.01541	0.00750	PASS
Extreme (-20℃)		1.41	10.27	6.86	0.00191	0.01393	0.00930	PASS
Extreme (-30℃)		16.76	14.76	3.65	0.02272	0.02002	0.00495	PASS
25℃	LV	2.82	2.93	5.22	0.00383	0.00397	0.00708	PASS
	HV	11.11	15.11	11.73	0.01506	0.02049	0.01591	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Temperature	Voltage							
Normal (25℃)	Normal	5.87	11.25	2.96	0.00796	0.01526	0.00402	PASS
Extreme (50℃)		17.47	4.87	11.47	0.02369	0.00660	0.01555	PASS
Extreme (40℃)		17.78	8.43	11.29	0.02411	0.01143	0.01530	PASS
Extreme (30℃)		7.97	3.42	8.77	0.01081	0.00464	0.01189	PASS
Extreme (20℃)		11.71	6.37	1.11	0.01587	0.00864	0.00151	PASS
Extreme (10℃)		13.41	6.41	5.01	0.01818	0.00869	0.00679	PASS
Extreme (0℃)		7.12	1.03	7.41	0.00966	0.00139	0.01004	PASS
Extreme (-10℃)		17.60	6.73	15.23	0.02386	0.00912	0.02066	PASS
Extreme (-20℃)		4.32	16.99	5.91	0.00586	0.02303	0.00802	PASS
Extreme (-30℃)		13.58	6.92	11.13	0.01841	0.00938	0.01509	PASS
25℃	LV	8.40	5.95	1.74	0.01138	0.00806	0.00236	PASS
	HV	13.87	10.42	11.60	0.01881	0.01414	0.01573	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Temperature	Voltage							
Normal (25℃)	Normal	5.62	10.84	4.16	0.00762	0.01469	0.00564	PASS
Extreme (50℃)		17.68	17.95	8.86	0.02397	0.02434	0.01202	PASS
Extreme (40℃)		4.66	5.73	8.76	0.00631	0.00777	0.01188	PASS
Extreme (30℃)		12.07	2.55	7.25	0.01637	0.00346	0.00982	PASS
Extreme (20℃)		17.42	10.71	4.50	0.02362	0.01452	0.00611	PASS
Extreme (10℃)		4.42	17.05	7.81	0.00600	0.02312	0.01060	PASS

Extreme (0℃)		9.16	15.08	3.90	0.01241	0.02045	0.00528	PASS
Extreme (-10℃)		8.61	8.58	1.83	0.01167	0.01164	0.00248	PASS
Extreme (-20℃)		14.09	12.41	10.75	0.01910	0.01682	0.01458	PASS
Extreme (-30℃)		11.56	17.43	5.46	0.01567	0.02363	0.00741	PASS
25℃	LV	8.35	7.49	2.76	0.01133	0.01016	0.00374	PASS
	HV	15.14	12.95	15.14	0.02053	0.01756	0.02053	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	2.02	12.09	2.91	0.00274	0.01639	0.00395	PASS
Extreme (50℃)		1.41	13.37	3.80	0.00191	0.01813	0.00515	PASS
Extreme (40℃)		17.28	12.97	13.96	0.02343	0.01758	0.01893	PASS
Extreme (30℃)		16.21	17.27	3.42	0.02198	0.02341	0.00463	PASS
Extreme (20℃)		16.02	5.29	3.74	0.02172	0.00717	0.00507	PASS
Extreme (10℃)		1.52	11.10	13.07	0.00206	0.01505	0.01772	PASS
Extreme (0℃)		6.52	12.56	10.09	0.00883	0.01703	0.01369	PASS
Extreme (-10℃)		13.00	15.27	12.02	0.01763	0.02070	0.01629	PASS
Extreme (-20℃)		13.30	10.45	13.64	0.01804	0.01417	0.01849	PASS
Extreme (-30℃)		11.43	1.35	6.76	0.01549	0.00183	0.00917	PASS
25℃	LV	10.26	3.93	5.94	0.01391	0.00532	0.00805	PASS
	HV	9.89	3.23	2.99	0.01341	0.00438	0.00405	PASS

LTE Band 30								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	1.88	6.85	5.55	0.00082	0.00297	0.00240	PASS
Extreme (50℃)		7.30	2.44	5.62	0.00316	0.00105	0.00243	PASS
Extreme (40℃)		14.43	7.58	13.33	0.00624	0.00328	0.00577	PASS
Extreme (30℃)		6.29	16.77	9.16	0.00272	0.00726	0.00397	PASS
Extreme (20℃)		11.42	17.46	16.45	0.00494	0.00756	0.00712	PASS
Extreme (10℃)		3.09	6.98	10.60	0.00134	0.00302	0.00459	PASS
Extreme (0℃)		7.41	11.30	7.96	0.00321	0.00489	0.00344	PASS
Extrem (-10℃)		13.33	16.27	3.28	0.00577	0.00704	0.00142	PASS
Extrem (-20℃)		3.89	16.99	12.11	0.00168	0.00735	0.00524	PASS
Extrem (-30℃)		16.98	6.77	7.91	0.00735	0.00293	0.00342	PASS
25℃	LV	8.65	11.89	17.08	0.00374	0.00515	0.00739	PASS
	HV	13.38	3.70	6.83	0.00579	0.00160	0.00296	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							

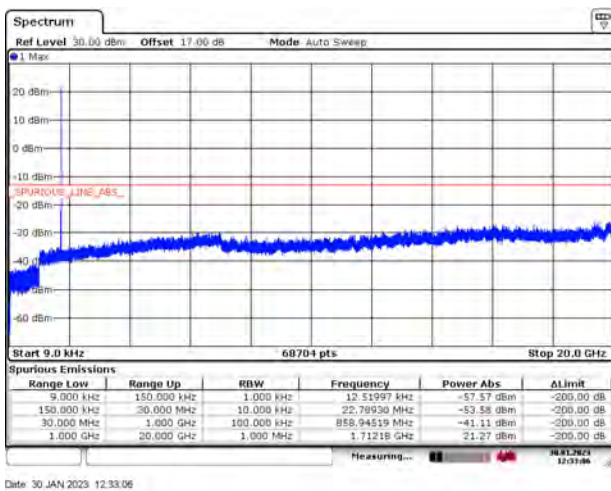
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.13	14.85	9.46	0.00395	0.00643	0.00409	PASS
Extrem (50°C)		5.17	3.91	10.72	0.00224	0.00169	0.00464	PASS
Extrem (40°C)		17.16	5.34	7.26	0.00743	0.00231	0.00314	PASS
Extrem (30°C)		15.54	9.02	6.94	0.00673	0.00391	0.00300	PASS
Extrem (20°C)		8.11	3.47	3.02	0.00351	0.00150	0.00131	PASS
Extrem (10°C)		16.71	3.24	14.90	0.00723	0.00140	0.00645	PASS
Extreme (0°C)		12.98	10.86	9.27	0.00562	0.00470	0.00401	PASS
Extrem (-10°C)		5.12	17.90	10.04	0.00222	0.00775	0.00435	PASS
Extrem (-20°C)		9.61	1.06	3.49	0.00416	0.00046	0.00151	PASS
Extrem (-30°C)		6.52	7.90	14.15	0.00282	0.00342	0.00613	PASS
25°C	LV	1.65	2.39	11.85	0.00071	0.00104	0.00513	PASS
	HV	5.21	2.72	8.31	0.00226	0.00118	0.00360	PASS

6.6 Spurious Emissions at Antenna Terminals

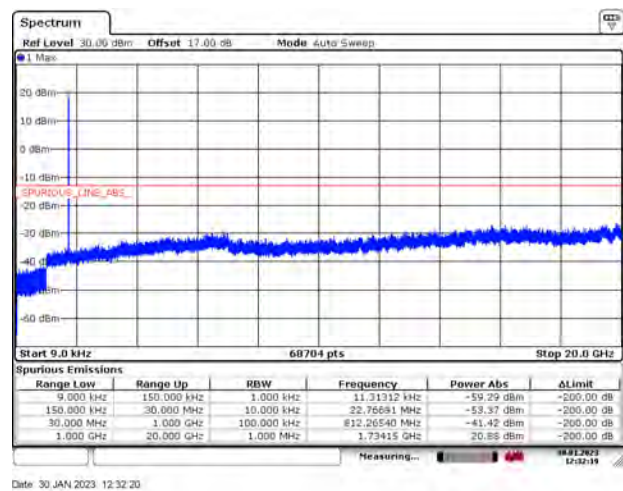
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

The signal beyond the limit is carrier.

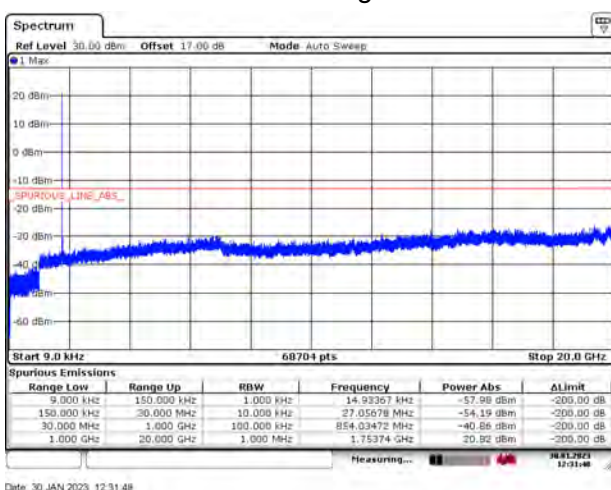
WCDMA Band IV CH-Low 9kHz~20GHz



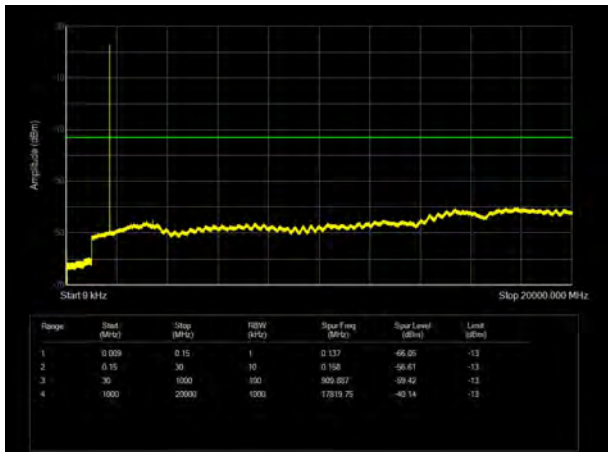
WCDMA Band IV CH-Middle 9kHz~20GHz



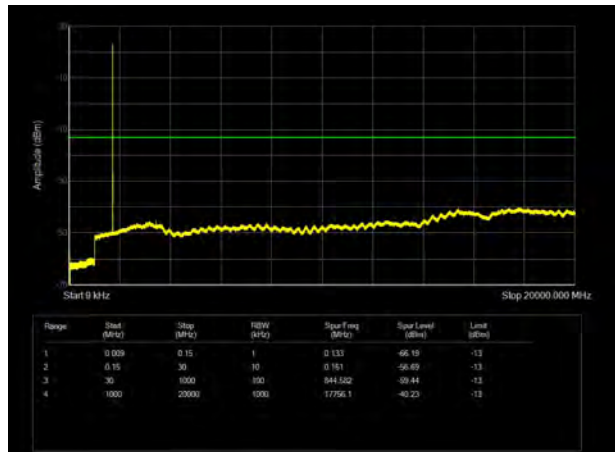
WCDMA Band IV CH-High 9kHz~20GHz



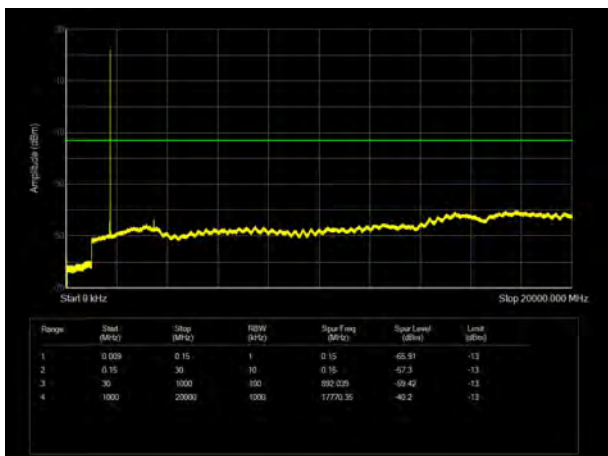
LTE Band 4 1.4MHz CH-Low 9kHz~20GHz



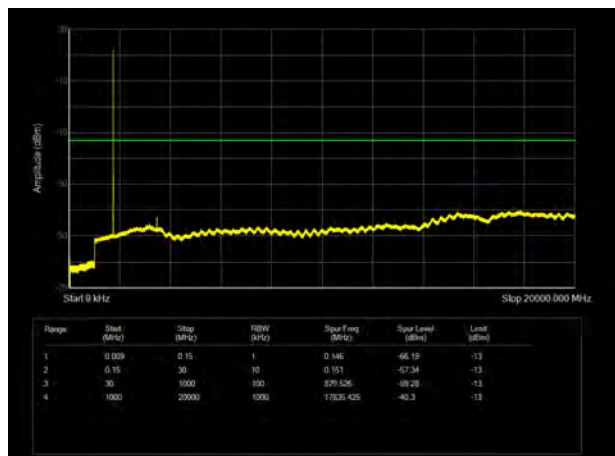
LTE Band 4 3MHz CH- Low 9kHz~20GHz



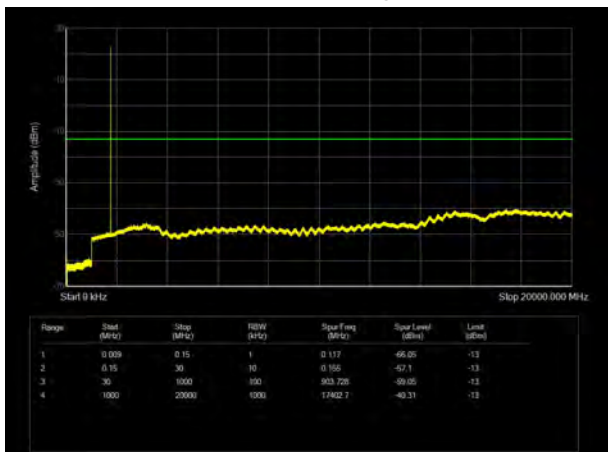
LTE Band 4 1.4MHz CH- Middle 9kHz~20GHz



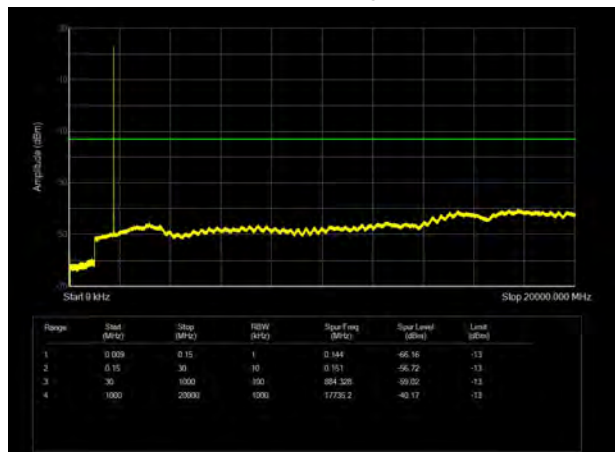
LTE Band 4 3MHz CH- Middle 9kHz~20GHz



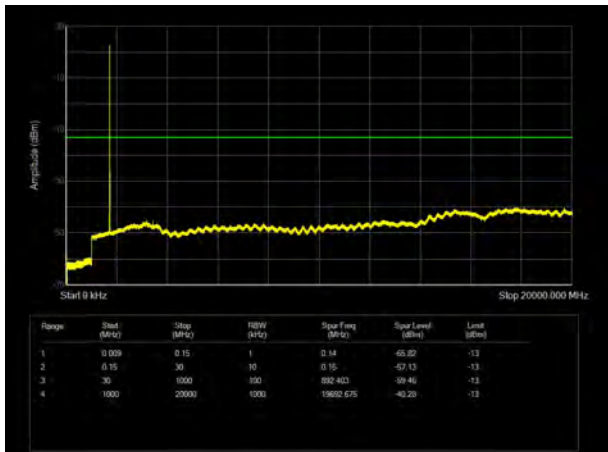
LTE Band 4 1.4MHz CH- High 9kHz~20GHz



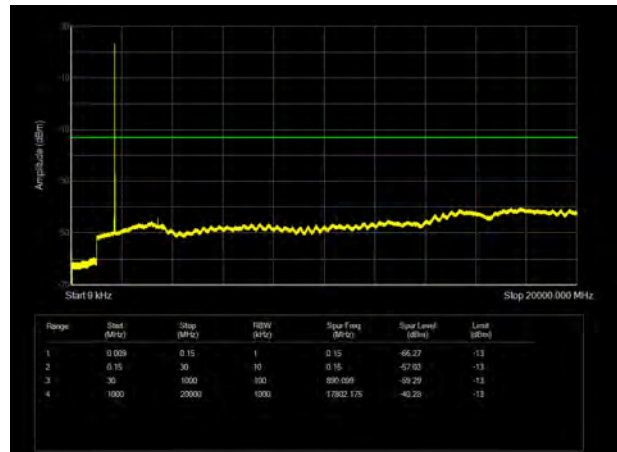
LTE Band 4 3MHz CH-High 9kHz~20GHz



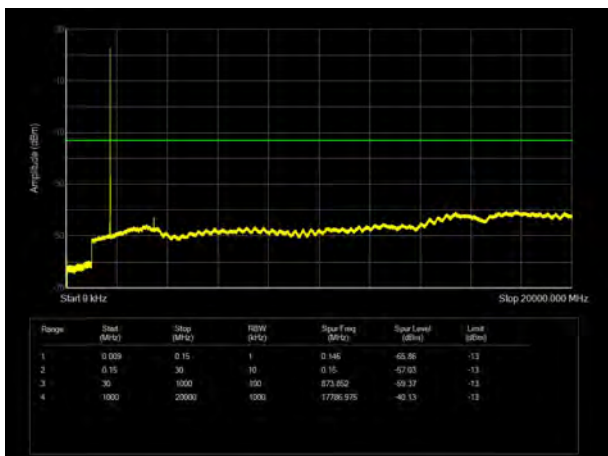
LTE Band 4 5MHz CH- Low 9kHz~20GHz



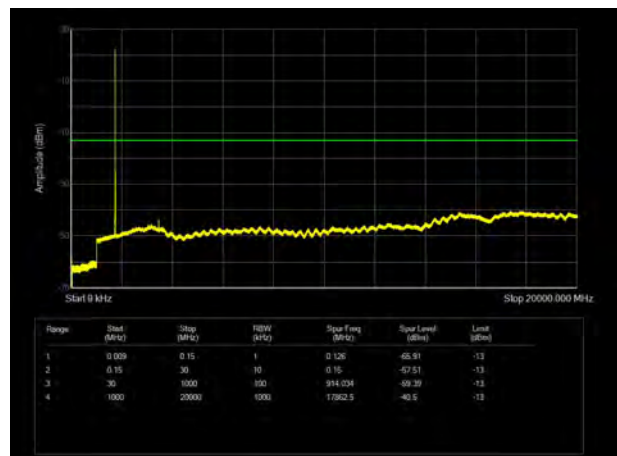
LTE Band 4 10MHz CH-Low 9kHz~20GHz



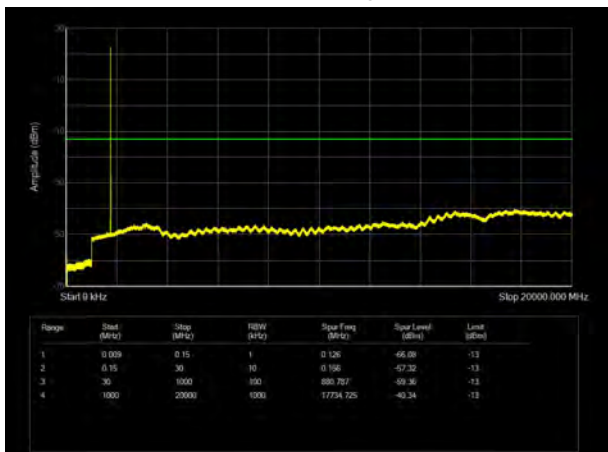
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



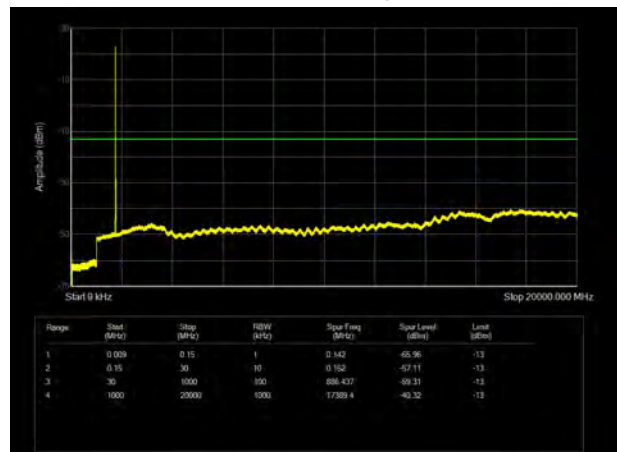
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



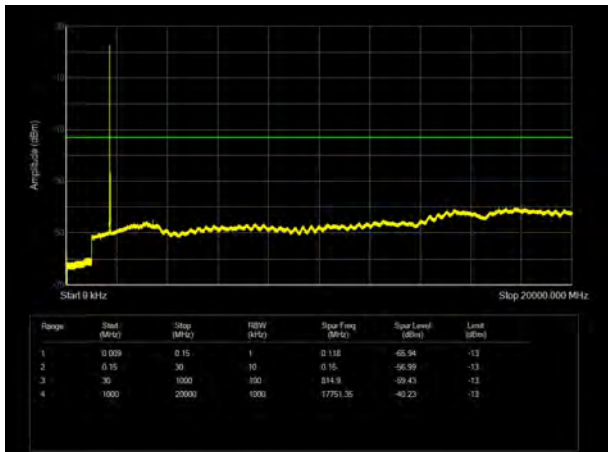
LTE Band 4 5MHz CH-High 9kHz~20GHz



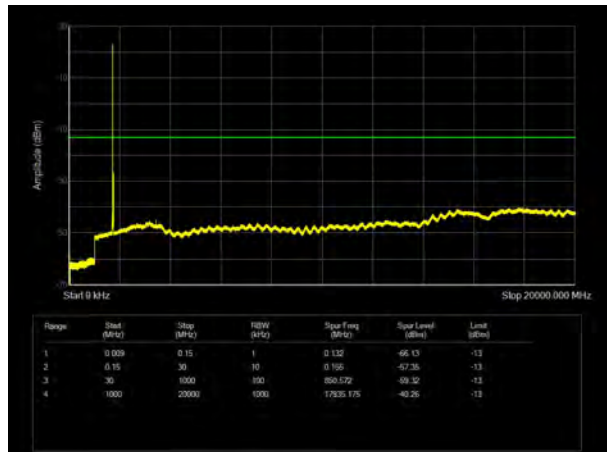
LTE Band 4 10MHz CH- High 9kHz~20GHz



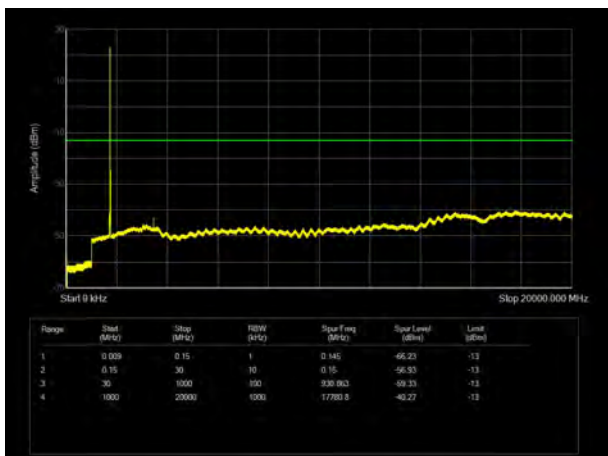
LTE Band 4 15MHz CH- Low 9kHz~20GHz



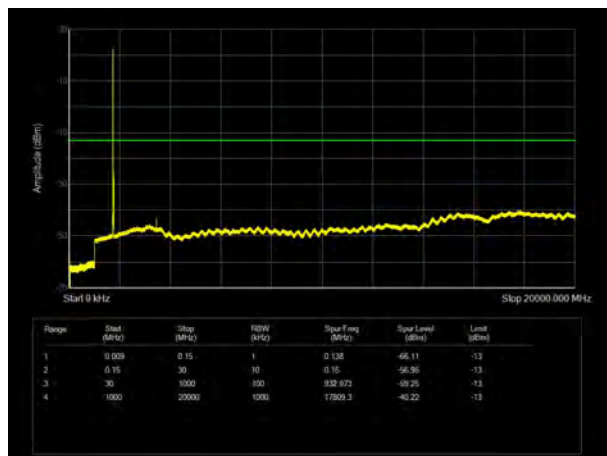
LTE Band 4 20MHz CH-Low 9kHz~20GHz



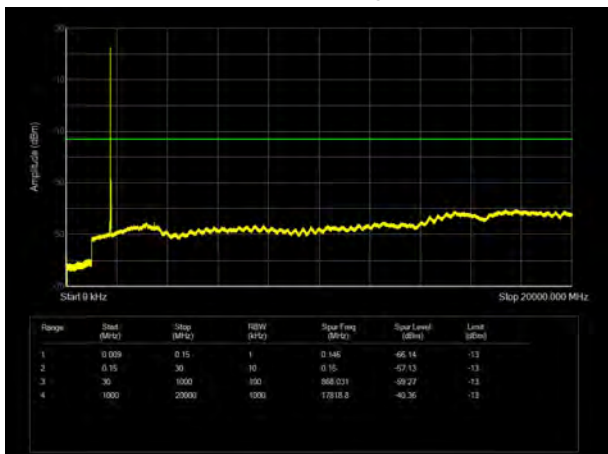
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



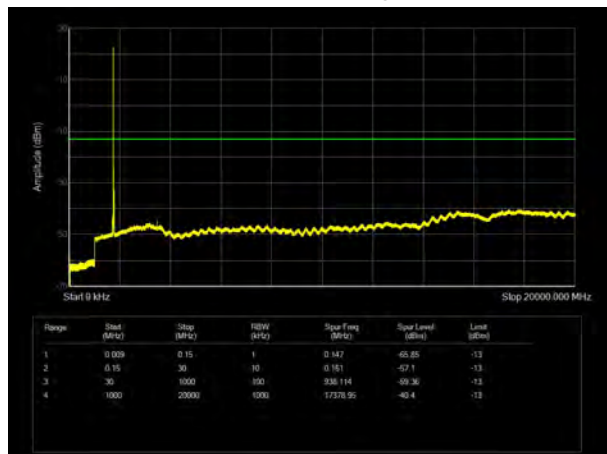
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



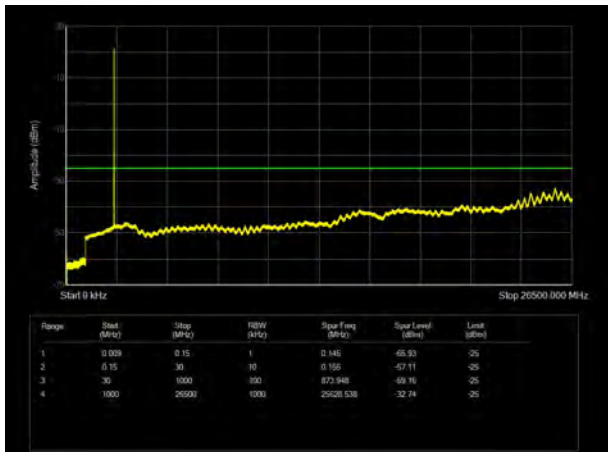
LTE Band 4 15MHz CH-High 9kHz~20GHz



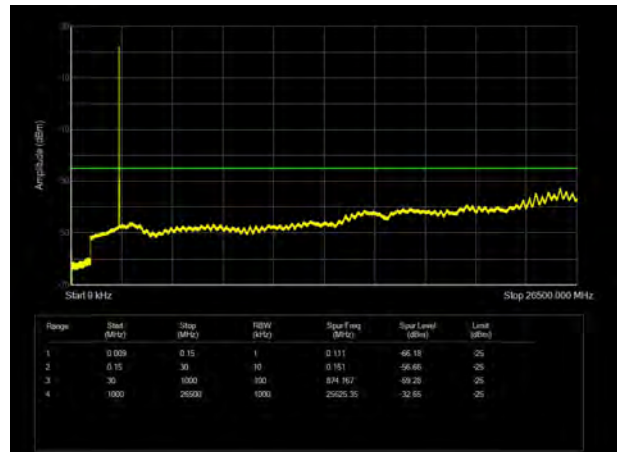
LTE Band 4 20MHz CH- High 9kHz~20GHz



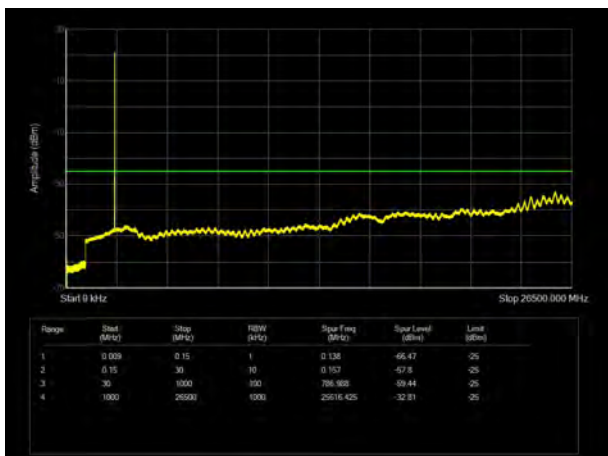
LTE Band 7 5MHz CH- Low 9kHz~26.5GHz



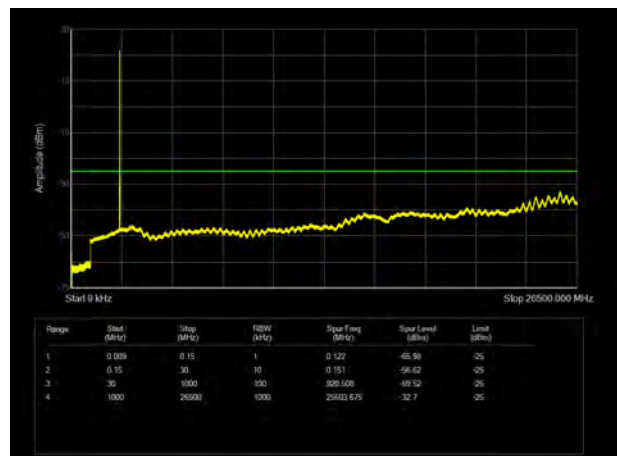
LTE Band 7 10MHz CH-Low 9kHz~26.5GHz



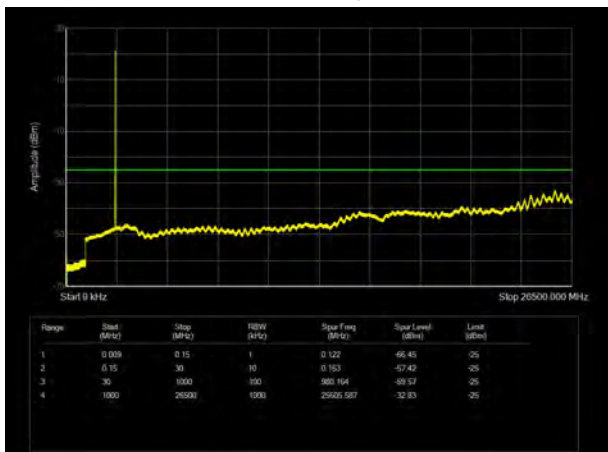
LTE Band 7 5MHz CH- Middle 9kHz~26.5GHz



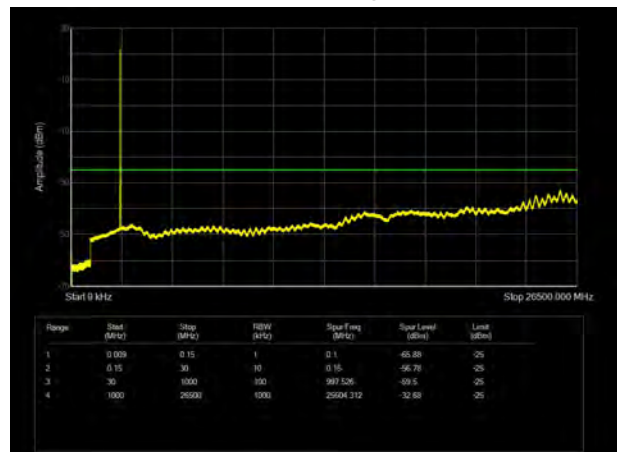
LTE Band 7 10MHz CH- Middle 9kHz~26.5GHz



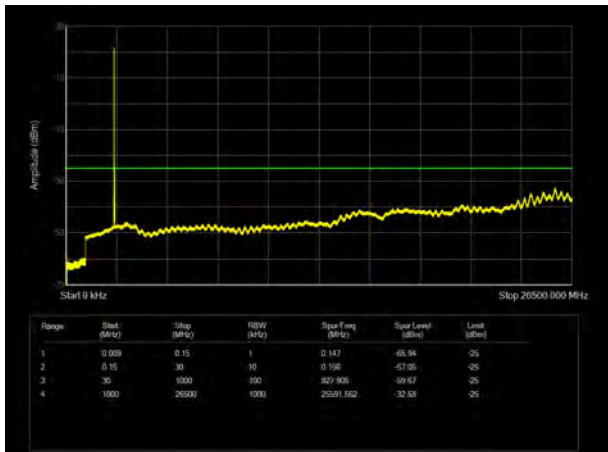
LTE Band 7 5MHz CH-High 9kHz~26.5GHz



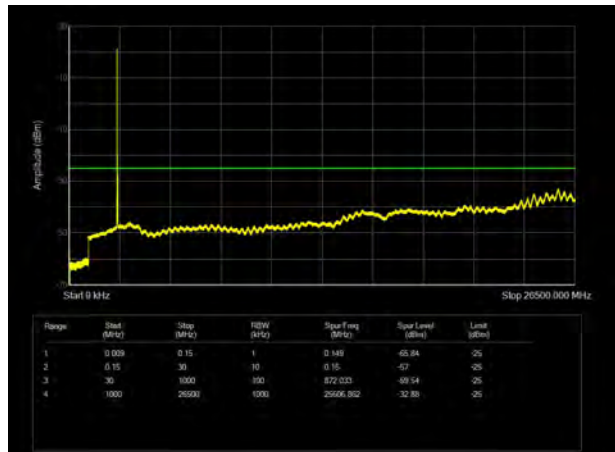
LTE Band 7 10MHz CH- High 9kHz~26.5GHz



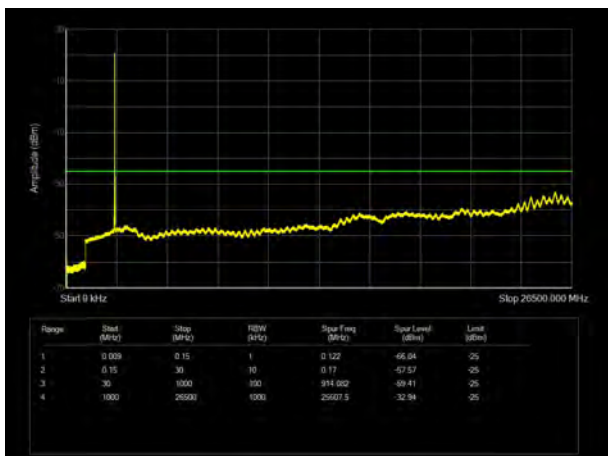
LTE Band 7 15MHz CH- Low 9kHz~26.5GHz



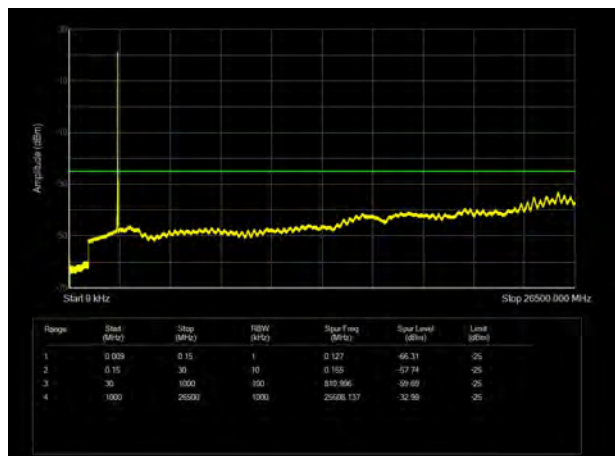
LTE Band 7 20MHz CH-Low 9kHz~26.5GHz



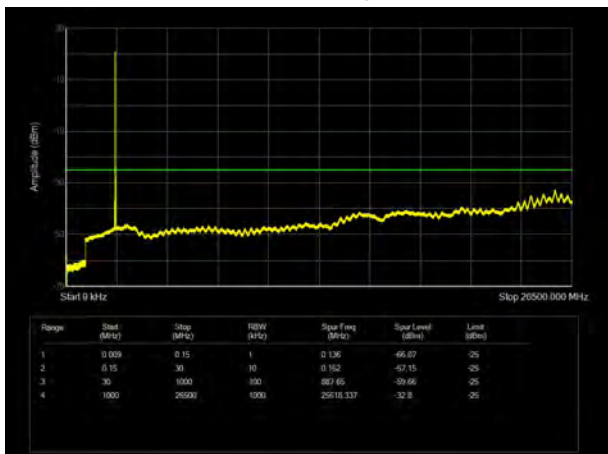
LTE Band 7 15MHz CH- Middle 9kHz~26.5GHz



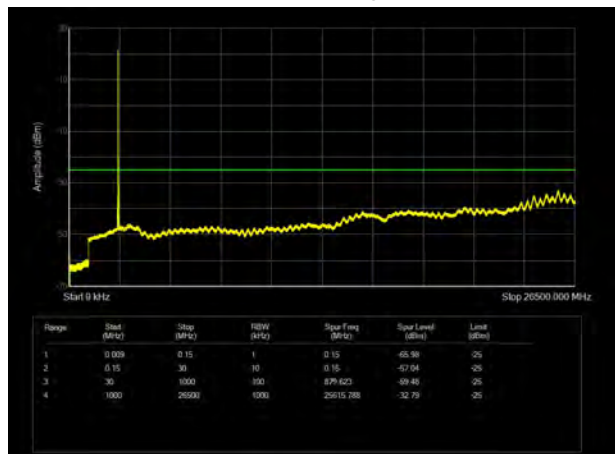
LTE Band 7 20MHz CH- Middle 9kHz~26.5GHz



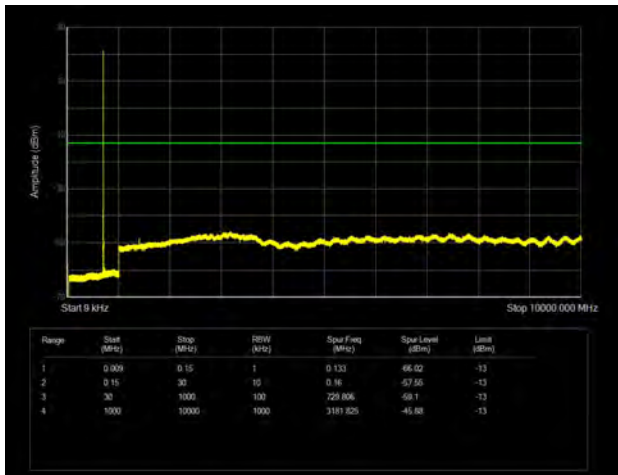
LTE Band 7 15MHz CH-High 9kHz~26.5GHz



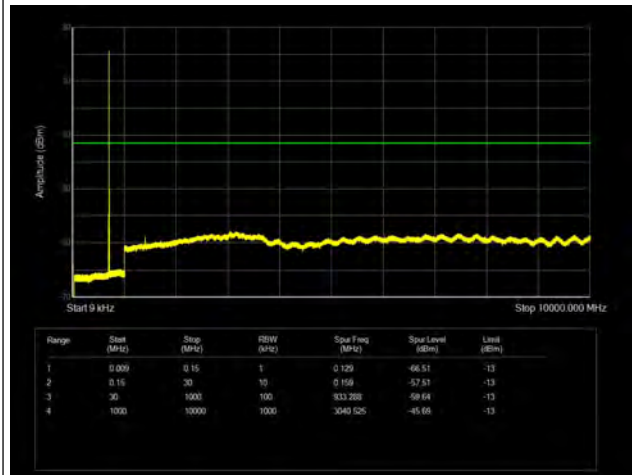
LTE Band 7 20MHz CH- High 9kHz~26.5GHz



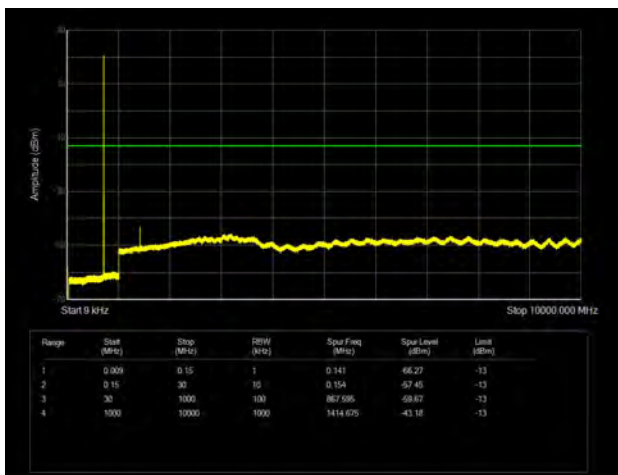
LTE Band 12 1.4MHz CH-Low 9kHz ~10GHz



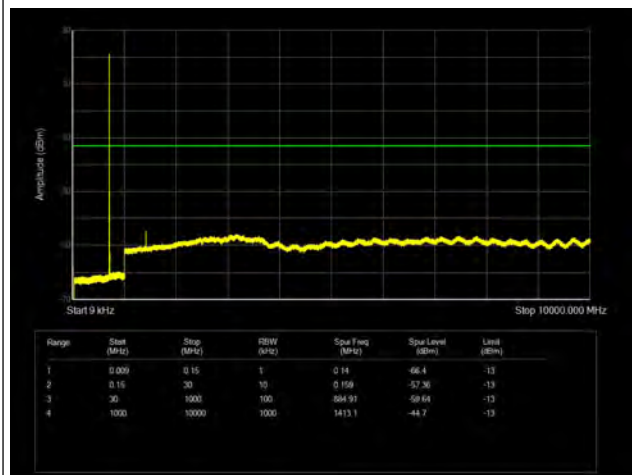
LTE Band 12 3MHz CH-Low 9kHz ~10GHz



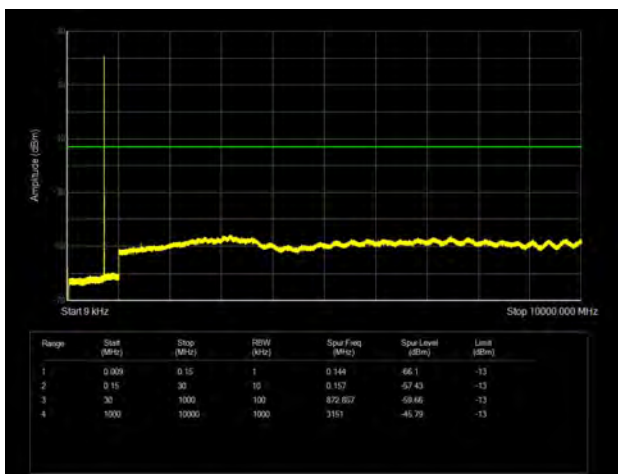
LTE Band 12 1.4MHz CH- Middle 9kHz ~10GHz



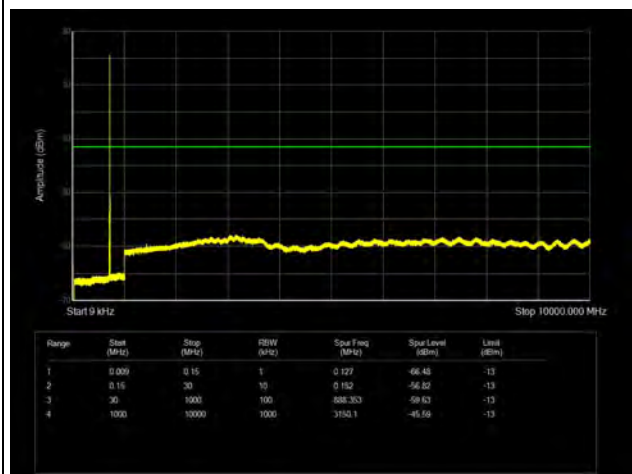
LTE Band 12 3MHz CH- Middle 9kHz ~10GHz



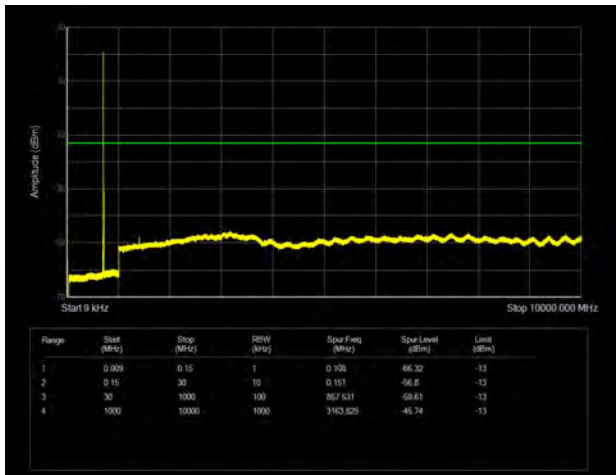
LTE Band 12 1.4MHz CH-High 9kHz ~10GHz



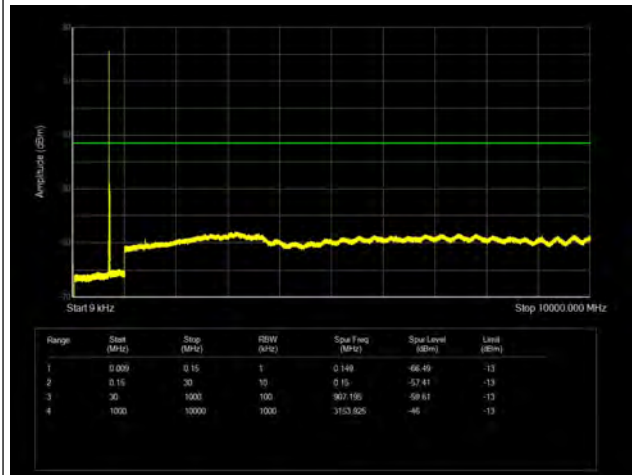
LTE Band 12 3MHz CH-High 9kHz ~10GHz



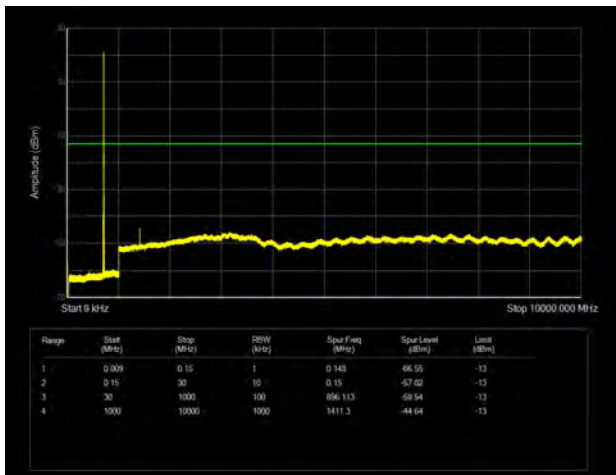
LTE Band 12 5MHz CH-Low 9kHz ~10GHz



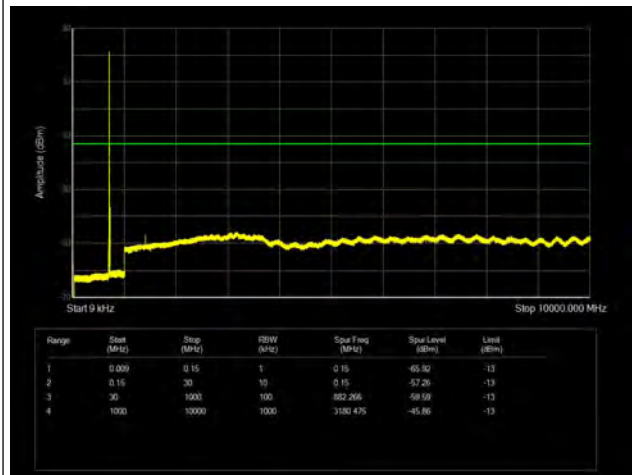
LTE Band 12 10MHz CH-Low 9kHz ~10GHz



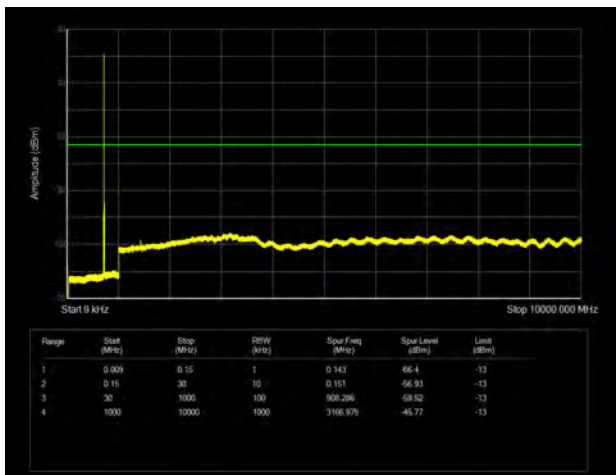
LTE Band 12 5MHz CH- Middle 9kHz ~10GHz



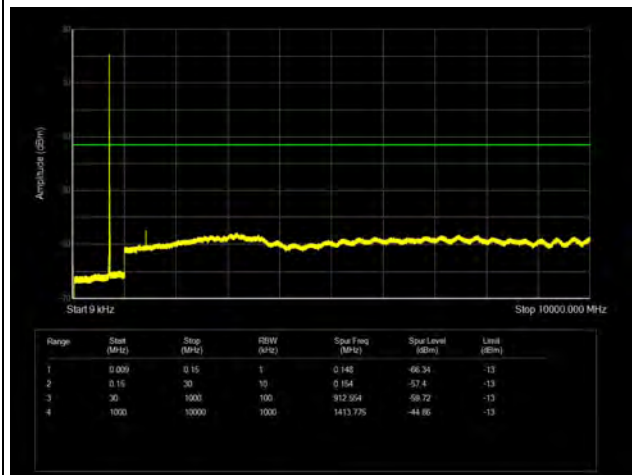
LTE Band 12 10MHz CH- Middle 9kHz ~10GHz



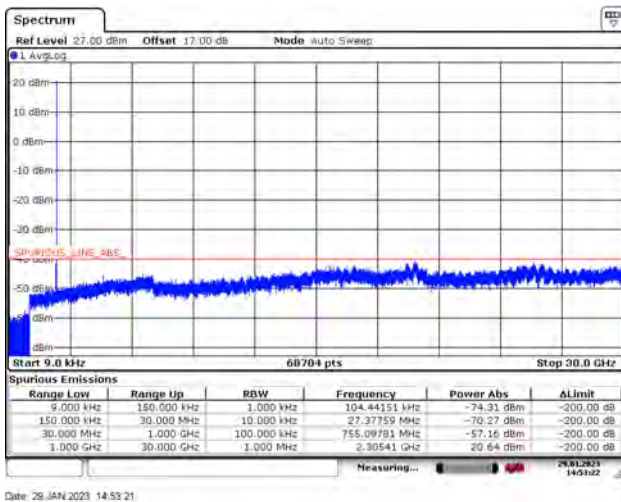
LTE Band 12 5MHz CH-High 9kHz ~10GHz



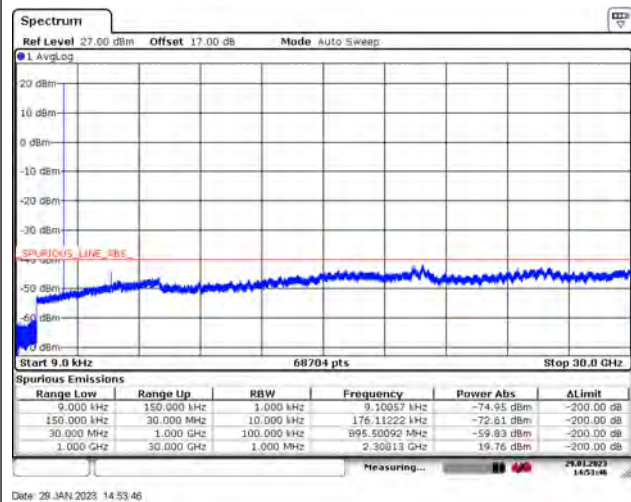
LTE Band 12 10MHz CH-High 9kHz ~10GHz



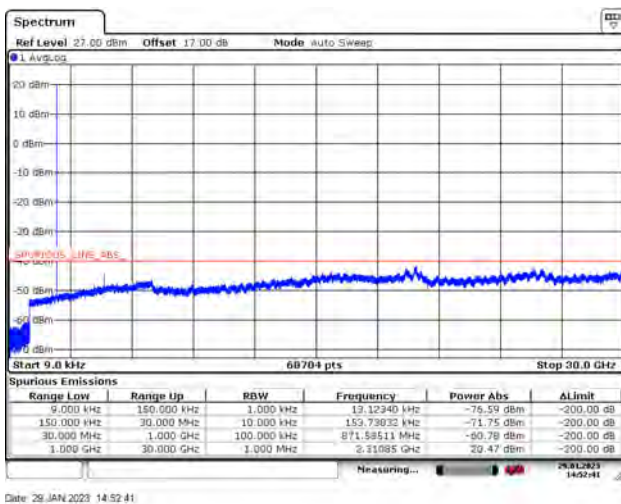
LTE Band 30 5MHz CH-Low 9kHz ~30GHz



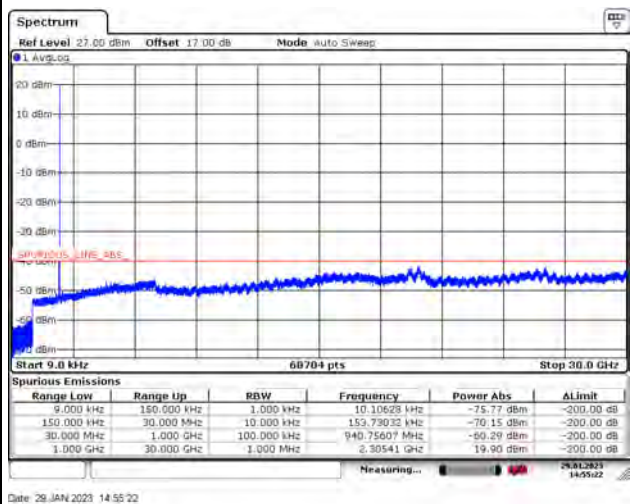
LTE Band 30 5MHz CH- Middle 9kHz ~30GHz



LTE Band 30 5MHz CH-High 9kHz ~30GHz



LTE Band 30 10MHz CH- Middle 9kHz ~30GHz



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.

WCDMA Band IV CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.20	-66.67	2.70	12.70	Horizontal	-56.67	-13.00	43.67	315
3	5197.80	-61.03	3.20	12.50	Horizontal	-51.73	-13.00	38.73	45
4	6930.40	-61.08	4.20	11.80	Horizontal	-53.48	-13.00	40.48	135
5	8663.00	-57.73	4.40	12.50	Horizontal	-49.63	-13.00	36.63	90
6	10395.60	-52.13	4.70	11.30	Horizontal	-45.53	-13.00	32.53	0
7	12128.20	-57.24	5.20	13.80	Horizontal	-48.64	-13.00	35.64	225
8	13860.80	-49.44	5.70	11.30	Horizontal	-43.84	-13.00	30.84	135
9	15593.40	-54.21	6.10	16.80	Horizontal	-43.51	-13.00	30.51	45
10	17326.00	-53.22	6.10	14.20	Horizontal	-45.12	-13.00	32.12	180
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 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3464.25	-55.69	2.70	12.70	Horizontal	-45.69	-13.00	32.69	0
3	5197.50	-62.10	3.20	12.50	Horizontal	-52.80	-13.00	39.80	135
4	6930.00	-61.87	4.20	11.80	Horizontal	-54.27	-13.00	41.27	0
5	8662.50	-59.73	4.40	12.50	Horizontal	-51.63	-13.00	38.63	45
6	10395.00	-54.12	4.70	11.30	Horizontal	-47.52	-13.00	34.52	0
7	12127.50	-55.65	5.20	13.80	Horizontal	-47.05	-13.00	34.05	135
8	13860.00	-52.51	5.70	11.30	Horizontal	-46.91	-13.00	33.91	0
9	15592.50	-55.73	6.10	16.80	Horizontal	-45.03	-13.00	32.03	45
10	17325.00	-54.56	6.10	14.20	Horizontal	-46.46	-13.00	33.46	225
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 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.50	-55.21	2.70	12.70	Horizontal	-45.21	-13.00	32.21	225
3	5191.50	-61.73	3.20	12.50	Horizontal	-52.43	-13.00	39.43	45
4	6930.00	-62.72	4.20	11.80	Horizontal	-55.12	-13.00	42.12	45
5	8662.50	-59.94	4.40	12.50	Horizontal	-51.84	-13.00	38.84	225
6	10395.00	-54.02	4.70	11.30	Horizontal	-47.42	-13.00	34.42	225
7	12127.50	-56.72	5.20	13.80	Horizontal	-48.12	-13.00	35.12	90
8	13860.00	-51.21	5.70	11.30	Horizontal	-45.61	-13.00	32.61	45
9	15592.50	-56.52	6.10	16.80	Horizontal	-45.82	-13.00	32.82	135
10	17325.00	-55.22	6.10	14.20	Horizontal	-47.12	-13.00	34.12	90
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 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.75	-55.80	2.70	12.70	Horizontal	-45.80	-13.00	32.80	0
3	5170.88	-61.99	3.20	12.50	Horizontal	-52.69	-13.00	39.69	135
4	6930.00	-61.43	4.20	11.80	Horizontal	-53.83	-13.00	40.83	45
5	8662.50	-60.18	4.40	12.50	Horizontal	-52.08	-13.00	39.08	0
6	10395.00	-53.21	4.70	11.30	Horizontal	-46.61	-13.00	33.61	45
7	12127.50	-55.41	5.20	13.80	Horizontal	-46.81	-13.00	33.81	135
8	13860.00	-51.51	5.70	11.30	Horizontal	-45.91	-13.00	32.91	0
9	15592.50	-56.41	6.10	16.80	Horizontal	-45.71	-13.00	32.71	45
10	17325.00	-54.19	6.10	14.20	Horizontal	-46.09	-13.00	33.09	225
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 7 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5065.80	-62.36	3.40	12.50	Horizontal	-53.26	-25.00	28.26	225
3	7598.60	-60.13	4.40	12.20	Horizontal	-52.33	-25.00	27.33	135
4	10130.63	-56.54	4.70	11.30	Horizontal	-49.94	-25.00	24.94	135
5	12675.00	-53.40	5.40	13.20	Horizontal	-45.60	-25.00	20.60	135
6	15210.00	-50.60	6.10	13.10	Horizontal	-43.60	-25.00	18.60	45
7	17745.00	-54.31	6.10	14.20	Horizontal	-46.21	-25.00	21.21	90
8	20280.00	--	--	--	--	--	--	--	--
9	22815.00	--	--	--	--	--	--	--	--
10	25350.00	--	--	--	--	--	--	--	--

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 7 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5052.20	-63.13	3.40	12.50	Horizontal	-54.03	-25.00	29.03	45
3	7578.30	-61.62	4.40	12.20	Horizontal	-53.82	-25.00	28.82	225
4	10104.40	-57.54	4.70	11.30	Horizontal	-50.94	-25.00	25.94	135
5	12630.50	-54.92	5.40	13.20	Horizontal	-47.12	-25.00	22.12	45
6	15156.60	-49.47	6.10	13.10	Horizontal	-42.47	-25.00	17.47	135
7	17745.00	-54.74	6.10	14.20	Horizontal	-46.64	-25.00	21.64	45
8	20208.80	--	--	--	--	--	--	--	--
9	22734.90	--	--	--	--	--	--	--	--
10	25261.00	--	--	--	--	--	--	--	--

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 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-59.43	1.70	8.70	Horizontal	-54.58	-13.00	41.58	225
3	2122.50	-47.76	2.10	11.10	Horizontal	-40.91	-13.00	27.91	135
4	2830.00	-64.97	2.30	13.10	Horizontal	-56.32	-13.00	43.32	90
5	3537.50	-65.82	2.60	12.70	Horizontal	-57.87	-13.00	44.87	0
6	4245.00	-62.82	3.30	12.50	Horizontal	-55.77	-13.00	42.77	135
7	4952.50	-60.35	3.40	12.50	Horizontal	-53.40	-13.00	40.40	135
8	5660.00	-59.82	3.30	12.50	Horizontal	-52.77	-13.00	39.77	0
9	6367.50	-59.41	3.80	11.50	Horizontal	-53.86	-13.00	40.86	45
10	7075.00	-60.15	4.20	11.80	Horizontal	-54.70	-13.00	41.70	225

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 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.60	-66.33	1.70	8.70	Horizontal	-61.48	-13.00	48.48	45
3	2115.90	-55.03	2.10	11.10	Horizontal	-48.18	-13.00	35.18	225
4	2821.20	-64.76	2.30	13.10	Horizontal	-56.11	-13.00	43.11	90
5	3512.50	-65.76	2.60	12.70	Horizontal	-57.81	-13.00	44.81	225
6	4215.00	-64.05	3.30	12.50	Horizontal	-57.00	-13.00	44.00	135
7	4917.50	-60.81	3.40	12.50	Horizontal	-53.86	-13.00	40.86	45
8	5620.00	-60.65	3.30	12.50	Horizontal	-53.60	-13.00	40.60	135
9	6322.50	-59.22	3.80	11.50	Horizontal	-53.67	-13.00	40.67	90
10	7025.00	-59.70	4.20	11.80	Horizontal	-54.25	-13.00	41.25	135

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 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1406.40	-66.37	1.70	8.70	Horizontal	-61.52	-13.00	48.52	45
3	2109.60	-58.78	2.10	11.10	Horizontal	-51.93	-13.00	38.93	135
4	2812.80	-64.73	2.30	13.10	Horizontal	-56.08	-13.00	43.08	90
5	3537.50	-65.70	2.60	12.70	Horizontal	-57.75	-13.00	44.75	45
6	4245.00	-63.38	3.30	12.50	Horizontal	-56.33	-13.00	43.33	135
7	4952.50	-60.53	3.40	12.50	Horizontal	-53.58	-13.00	40.58	45
8	5660.00	-60.12	3.30	12.50	Horizontal	-53.07	-13.00	40.07	135
9	6367.50	-59.10	3.80	11.50	Horizontal	-53.55	-13.00	40.55	45
10	7075.00	-59.75	4.20	11.80	Horizontal	-54.30	-13.00	41.30	90

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 30 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	4615.00	-63.61	3.20	12.50	Horizontal	-54.31	-40.00	14.31	225
3	6922.50	-55.40	4.40	12.30	Horizontal	-47.50	-40.00	7.50	90
4	9230.00	-63.14	4.70	11.80	Horizontal	-56.04	-40.00	16.04	315
5	11537.50	-65.24	5.40	14.00	Horizontal	-56.64	-40.00	16.64	135
6	13845.00	-64.65	6.10	16.80	Horizontal	-53.95	-40.00	13.95	45
7	16152.50	-62.18	6.10	13.10	Horizontal	-55.18	-40.00	15.18	270
8	18460.00	--	--	--	--	--	--	--	--
9	20767.50	--	--	--	--	--	--	--	--
10	23075.00	--	--	--	--	--	--	--	--

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 30 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	4610.00	-64.26	3.20	12.50	Horizontal	-54.96	-40.00	14.96	135
3	6915.00	-56.84	4.40	12.30	Horizontal	-48.94	-40.00	8.94	225
4	9220.00	-62.34	4.70	11.80	Horizontal	-55.24	-40.00	15.24	45
5	11525.00	-64.32	5.40	14.00	Horizontal	-55.72	-40.00	15.72	0
6	13830.00	-64.61	6.10	16.80	Horizontal	-53.91	-40.00	13.91	315
7	16135.00	-61.46	6.10	13.10	Horizontal	-54.46	-40.00	14.46	180
8	18440.00	--	--	--	--	--	--	--	--
9	20745.00	--	--	--	--	--	--	--	--
10	23050.00	--	--	--	--	--	--	--	--
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.									

7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climatic Chamber	WEISS	VT 4002	58226119450 010	2022-05-14	2023-05-13
Base Station Simulator	R&S	CMW500	150415	2022-05-14	2023-05-13
Spectrum Analyzer	Keysight	N9020A	MY50510203	2022-05-14	2023-05-13
Signal Analyzer	R&S	FSV30	103591	2022-05-14	2023-05-13
Universal Radio Communication Tester	Agilent	E5515C	MY48367192	2022-05-14	2023-05-13
Signal Analyzer	R&S	FSV30	100815	2022-12-10	2023-12-09
Loop antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01439	2021-06-30	2024-06-29
Horn Antenna	Schwarzbeck	BBHA 9120D	01799	2022-09-01	2025-08-31
Software	R&S	EMC32	10.35.10	/	/

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

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.