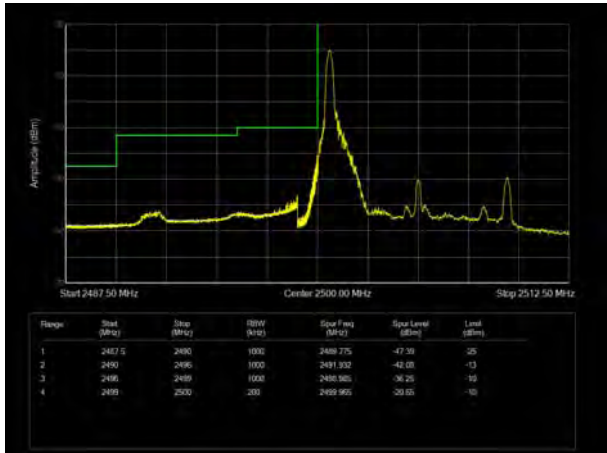
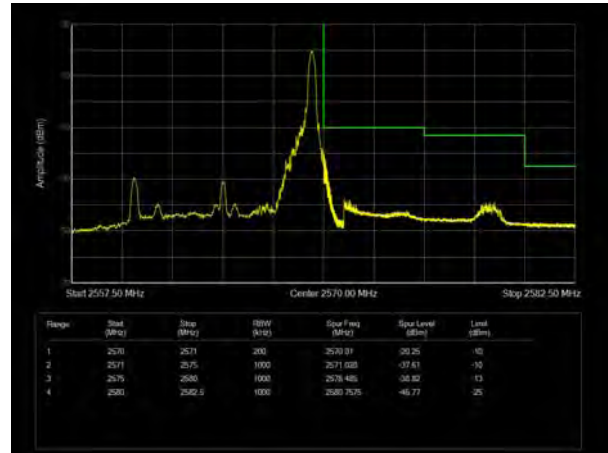




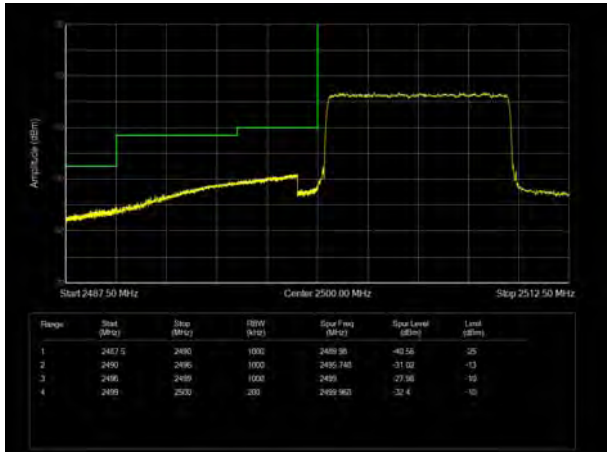
LTE Band 7 64QAM 10MHz CH-Low, 1 RB



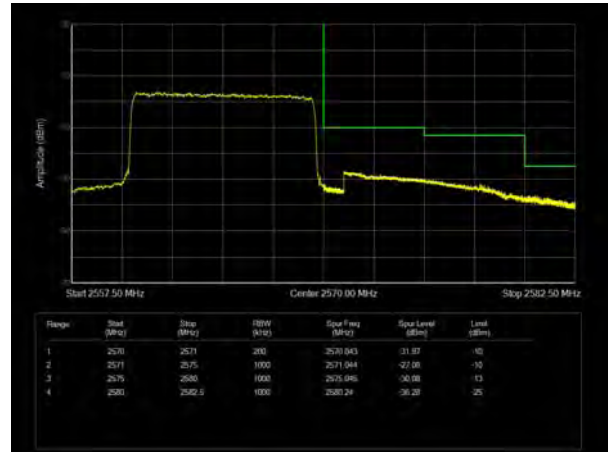
LTE Band 7 64QAM 10MHz CH-High, 1 RB



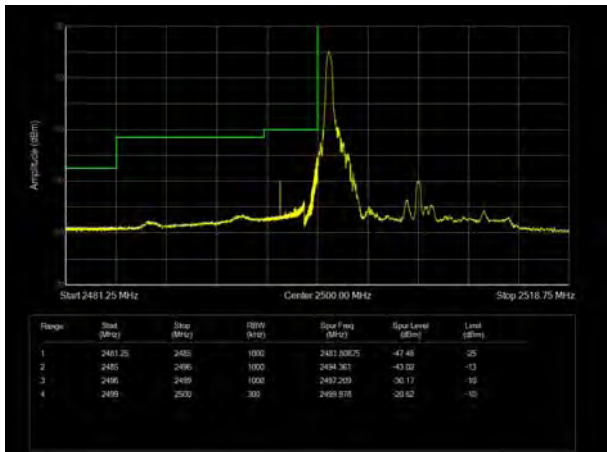
LTE Band 7 64QAM 10MHz CH-Low, 100%RB



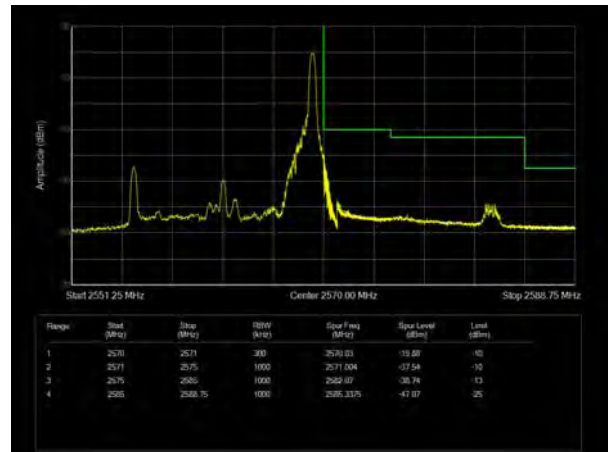
LTE Band 7 64QAM 10MHz CH-High, 100%RB



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

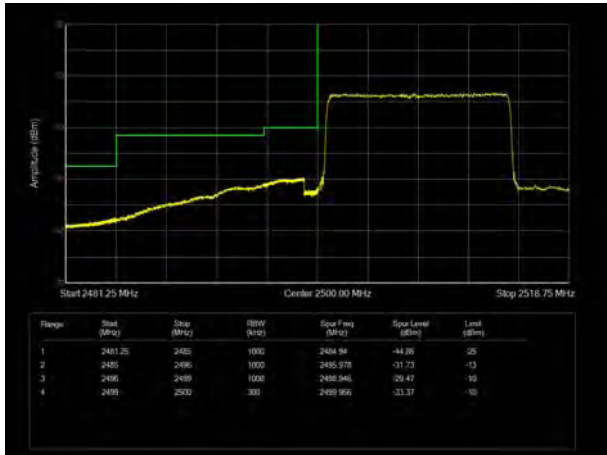


LTE Band 7 64QAM 15MHz CH-High, 1 RB

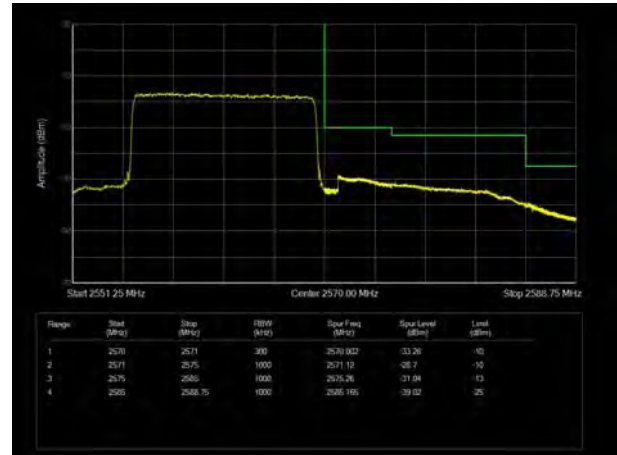




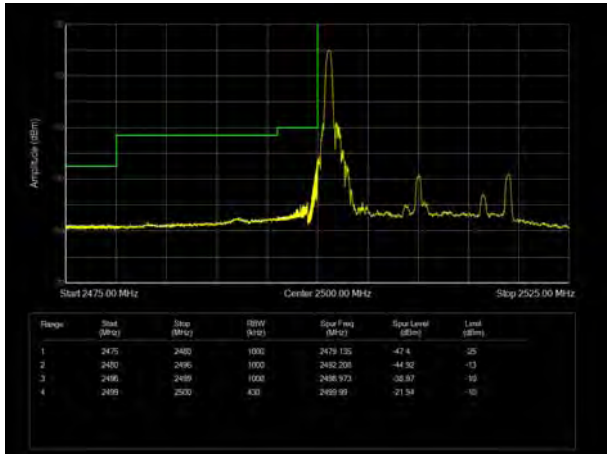
LTE Band 7 64QAM 15MHz CH-Low, 100%RB



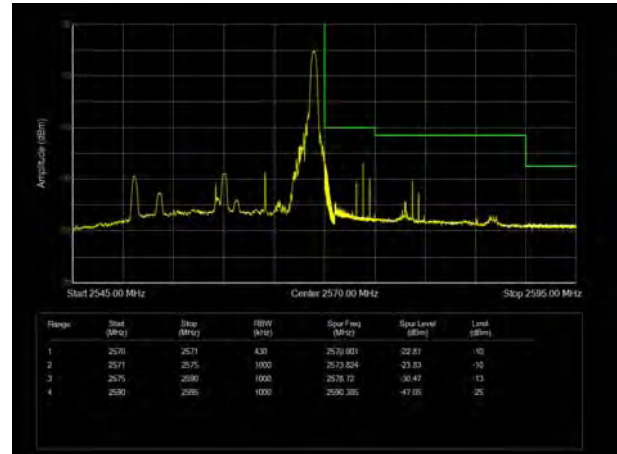
LTE Band 7 64QAM 15MHz CH-High, 100%RB



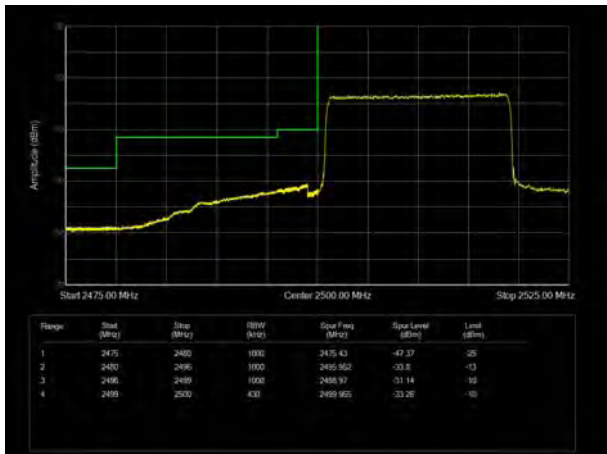
LTE Band 7 64QAM 20MHz CH-Low, 1 RB



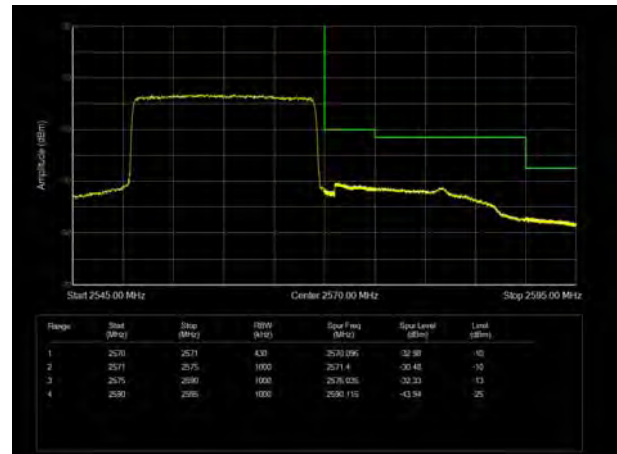
LTE Band 7 64QAM 20MHz CH-High, 1 RB



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

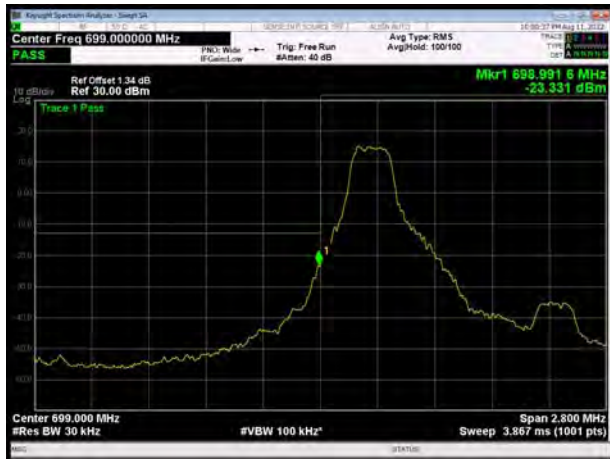


LTE Band 7 64QAM 20MHz CH-High, 100%RB





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

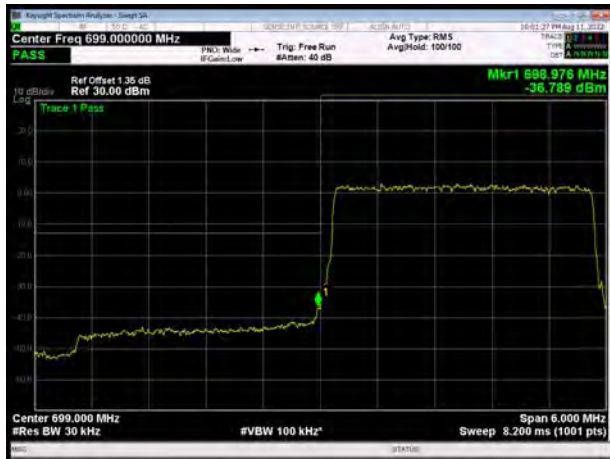


LTE Band 12 QPSK 3MHz CH-High, 1 RB





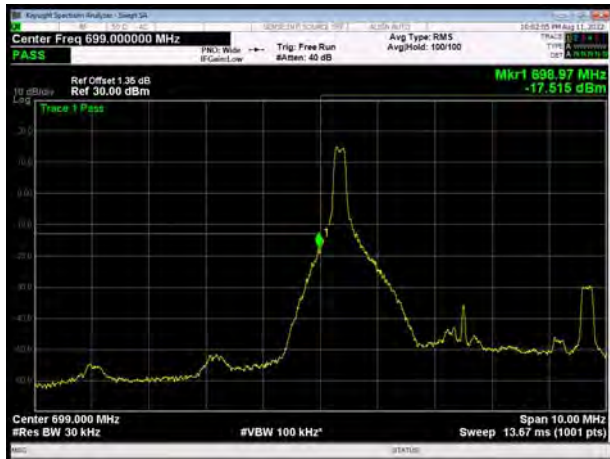
LTE Band 12 QPSK 3MHz CH-Low, 100%RB



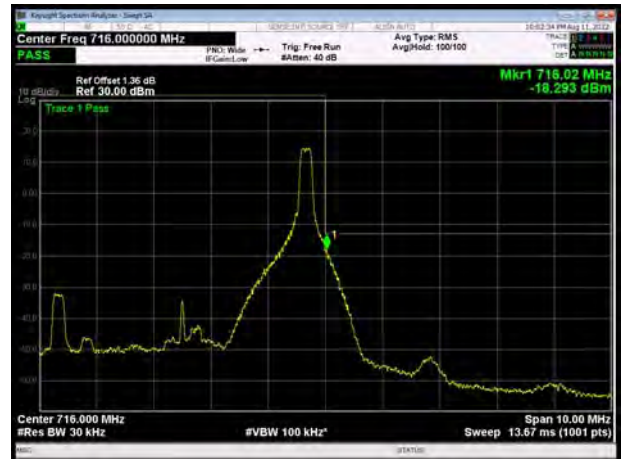
LTE Band 12 QPSK 3MHz CH-High, 100%RB



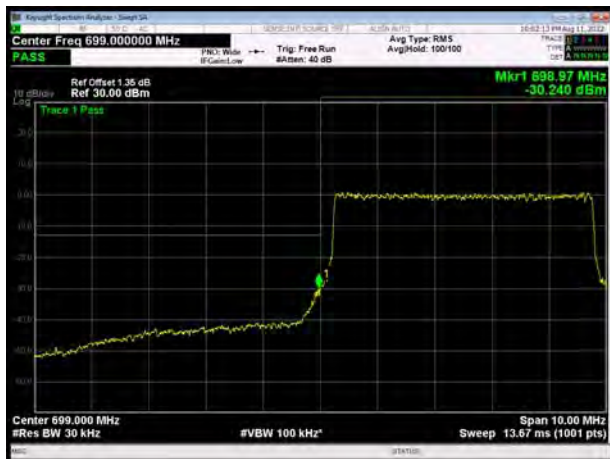
LTE Band 12 QPSK 5MHz CH-Low, 1 RB



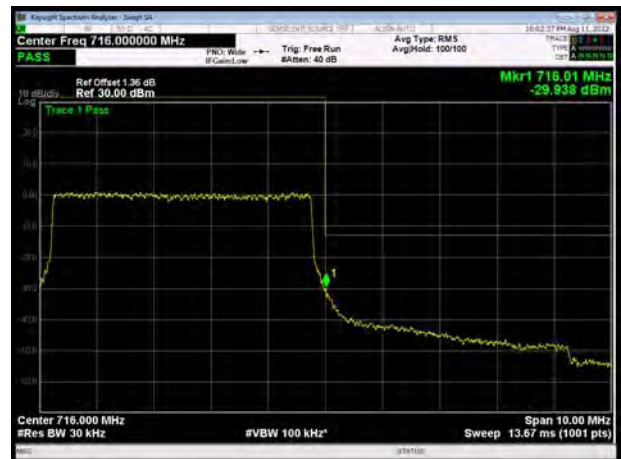
LTE Band 12 QPSK 5MHz CH-High, 1 RB



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

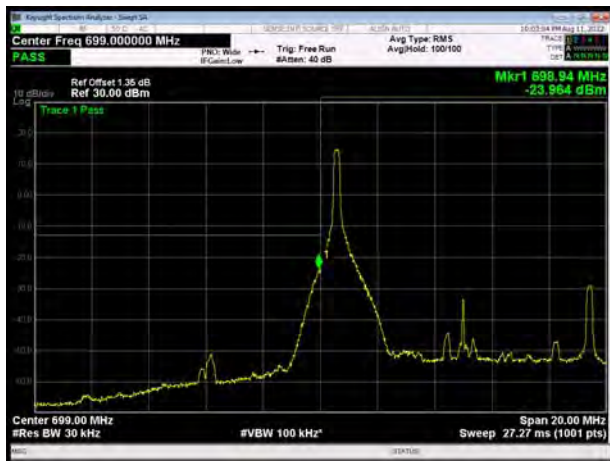


LTE Band 12 QPSK 5MHz CH-High, 100%RB

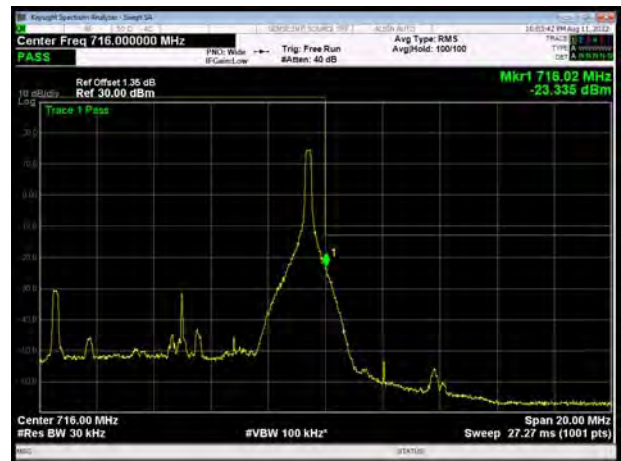




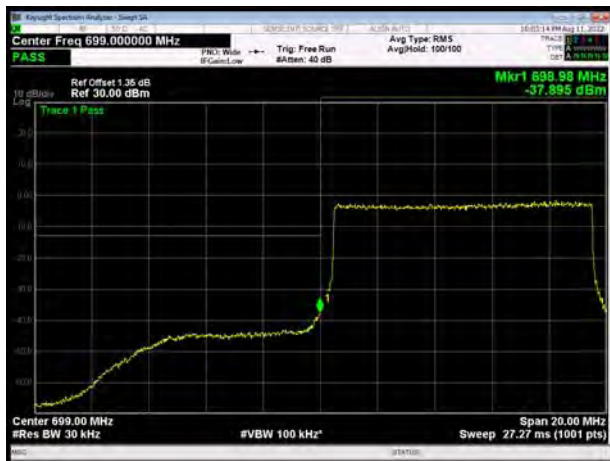
LTE Band 12 QPSK 10MHz CH-Low, 1 RB



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



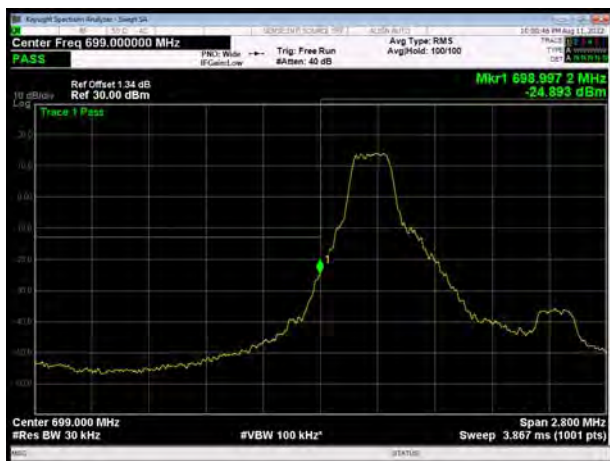
LTE Band 12 QPSK 10MHz CH-Low, 100%RB



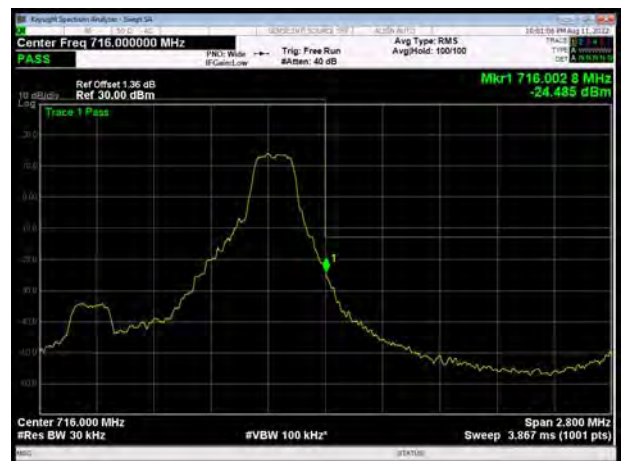
LTE Band 12 QPSK 10MHz CH-High, 100%RB



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



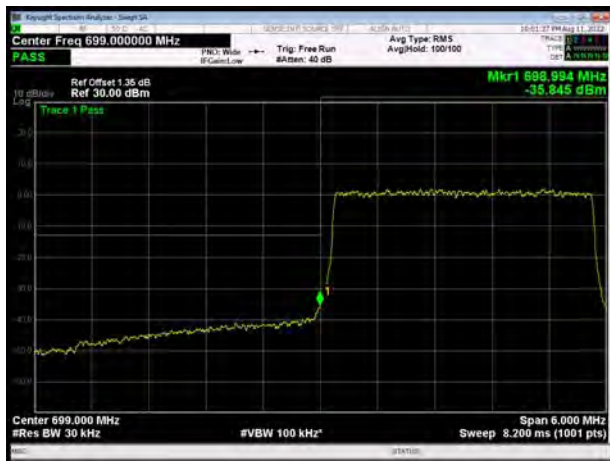
LTE Band 12 16QAM 3MHz CH-Low, 1 RB



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



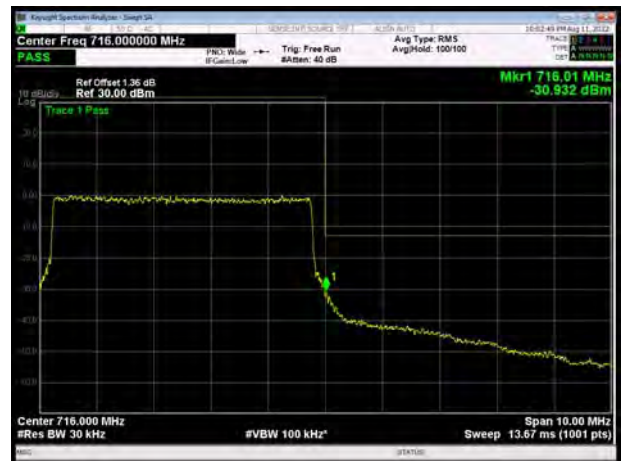
LTE Band 12 16QAM 5MHz CH-High, 1 RB



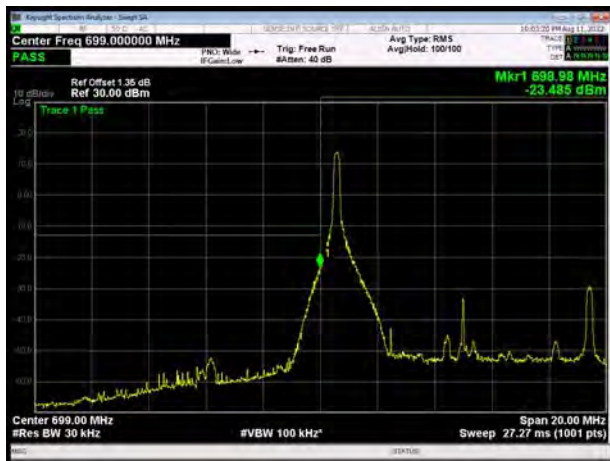
LTE Band 12 16QAM 5MHz CH-Low, 100%RB



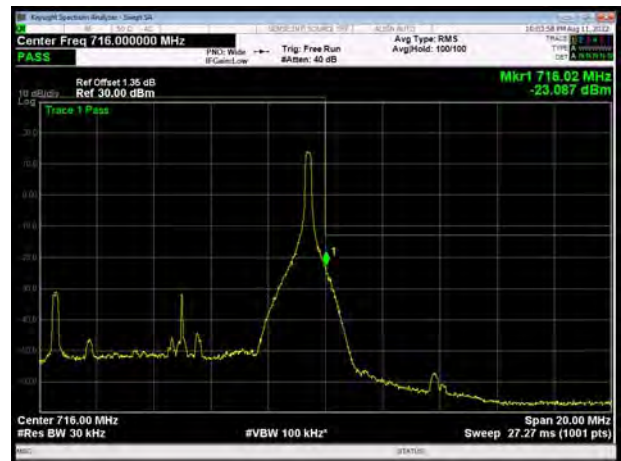
LTE Band 12 16QAM 5MHz CH-High, 100%RB



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

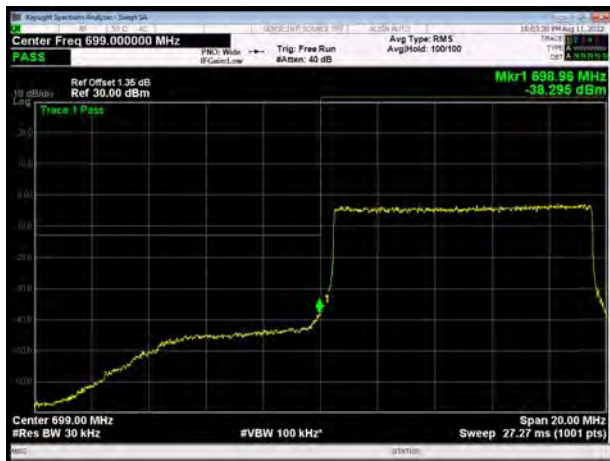


LTE Band 12 16QAM 10MHz CH-High, 1 RB





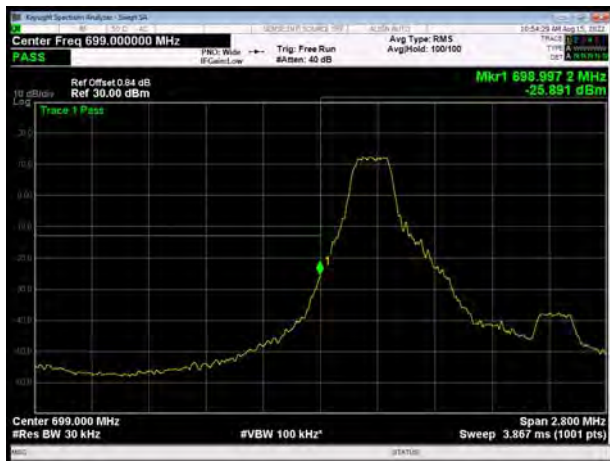
LTE Band 12 16QAM 10MHz CH-Low, 100%RB



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

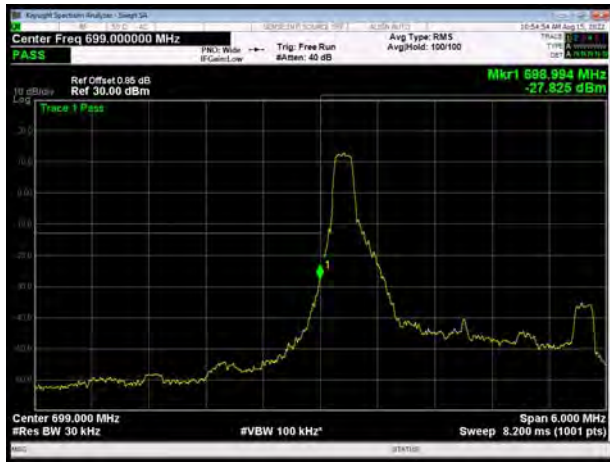


LTE Band 12 64QAM 1.4MHz CH-High, 100%RB





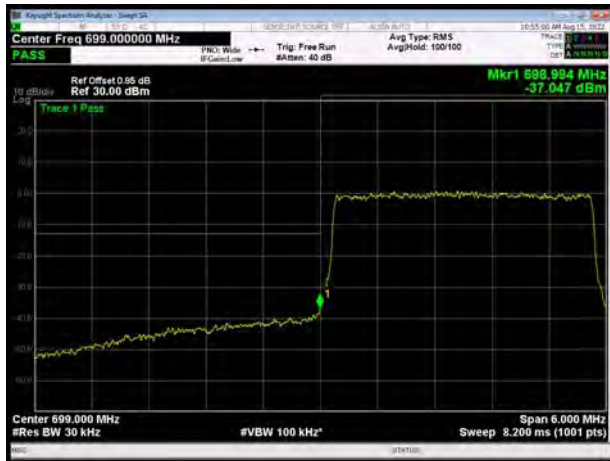
LTE Band 12 64QAM 3MHz CH-Low, 1 RB



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

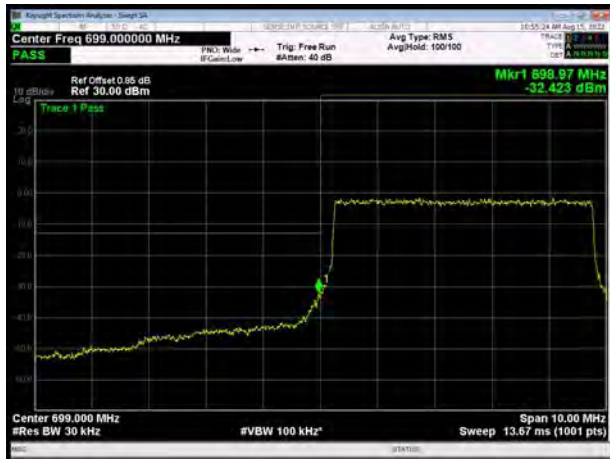


LTE Band 12 64QAM 5MHz CH-High, 1 RB

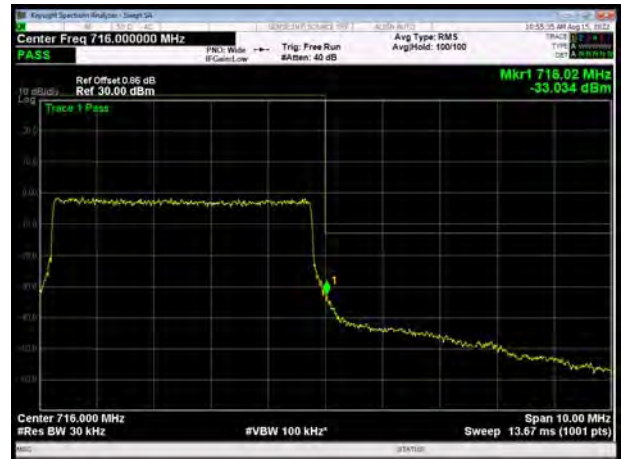




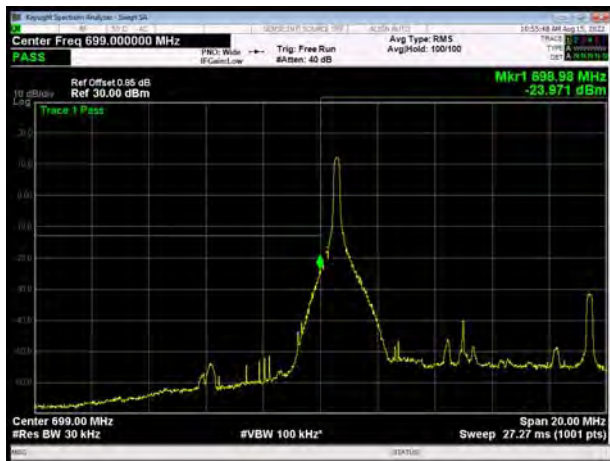
LTE Band 12 64QAM 5MHz CH-Low, 100%RB



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



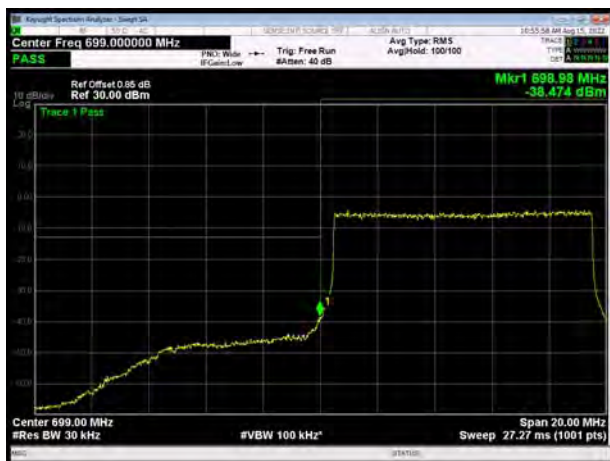
LTE Band 12 64QAM 10MHz CH-Low, 1 RB



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



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

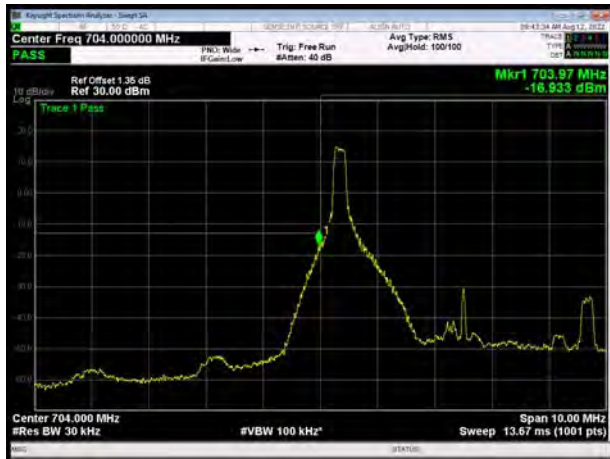


LTE Band 12 64QAM 10MHz CH-High, 100%RB

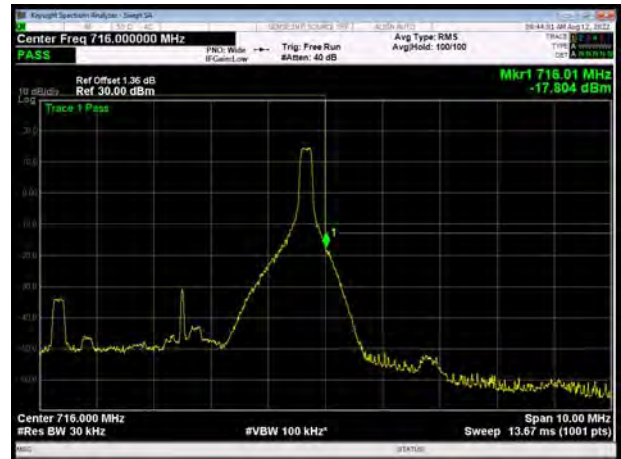




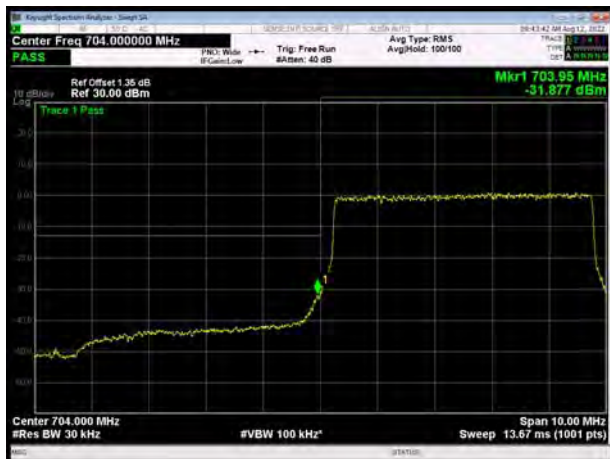
LTE Band 17 QPSK 5MHz CH-Low, 1 RB



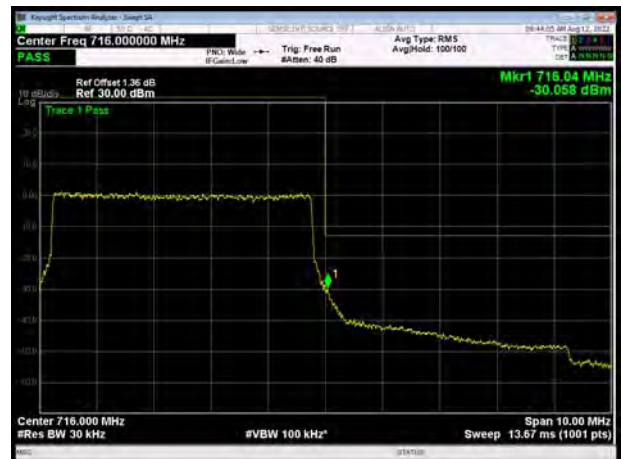
LTE Band 17 QPSK 5MHz CH-High, 1 RB



LTE Band 17 QPSK 5MHz CH-Low, 100%RB



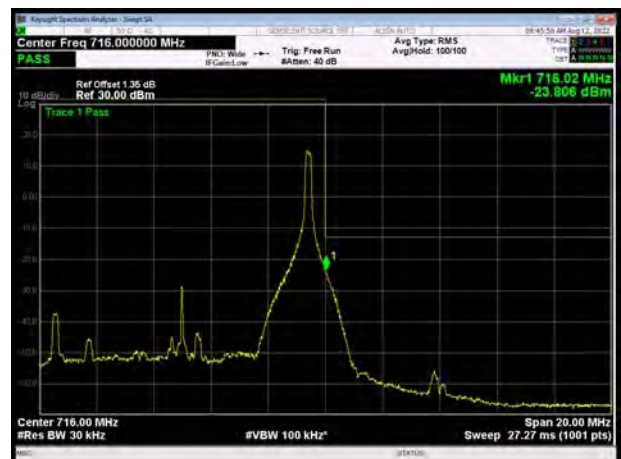
LTE Band 17 QPSK 5MHz CH-High, 100%RB



LTE Band 17 QPSK 10MHz CH-Low, 1 RB

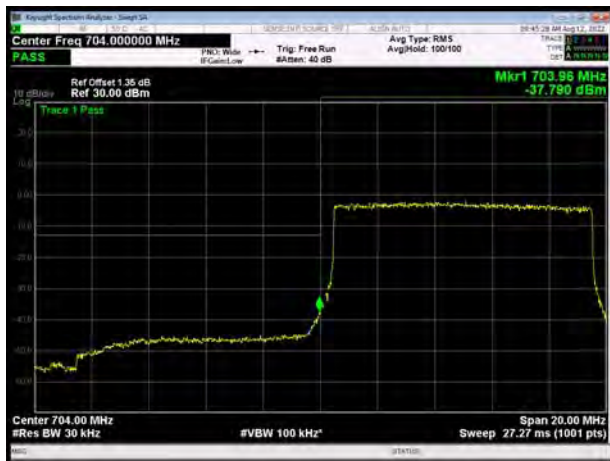


LTE Band 17 QPSK 10MHz CH-High, 1 RB





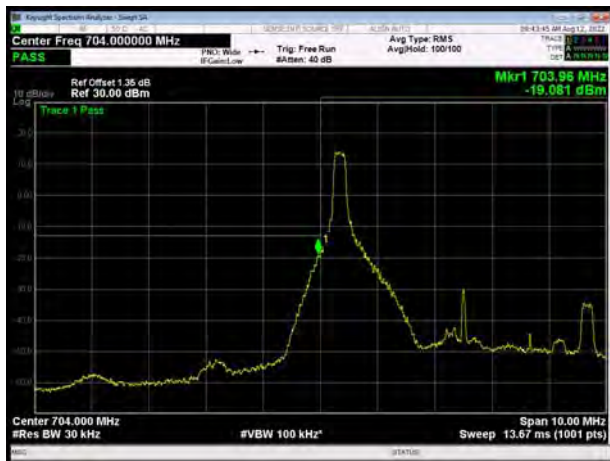
LTE Band 17 QPSK 10MHz CH-Low, 100%RB



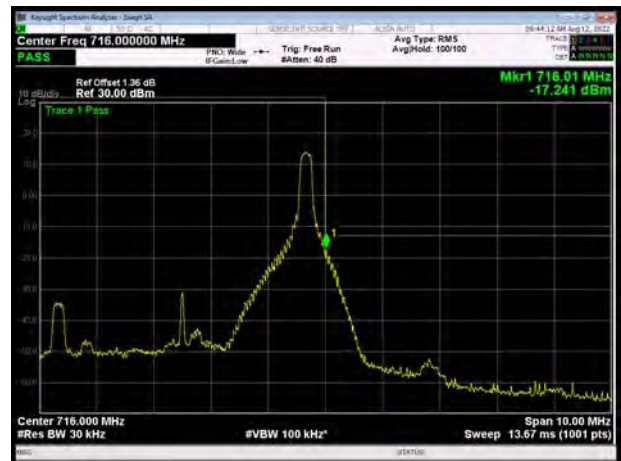
LTE Band 17 QPSK 10MHz CH-High, 100%RB



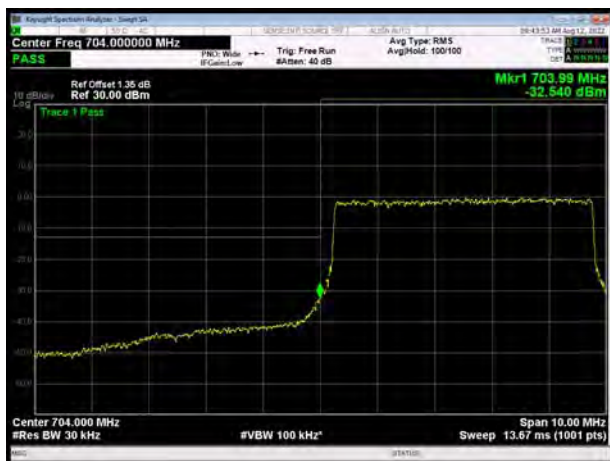
LTE Band 17 16QAM 5MHz CH-Low, 1 RB



LTE Band 17 16QAM 5MHz CH-High, 1 RB



LTE Band 17 16QAM 5MHz CH-Low, 100%RB



LTE Band 17 16QAM 5MHz CH-High, 100%RB

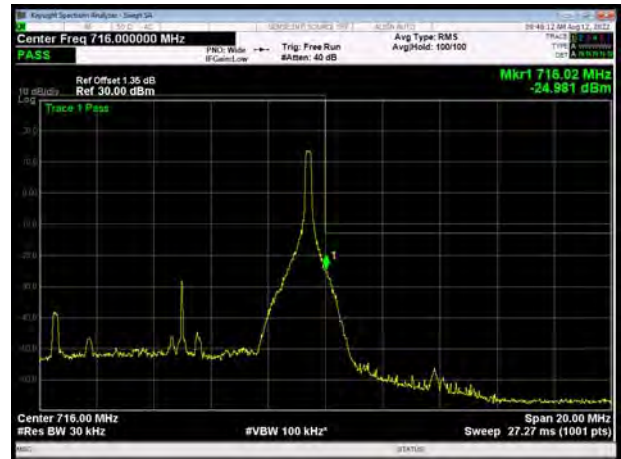




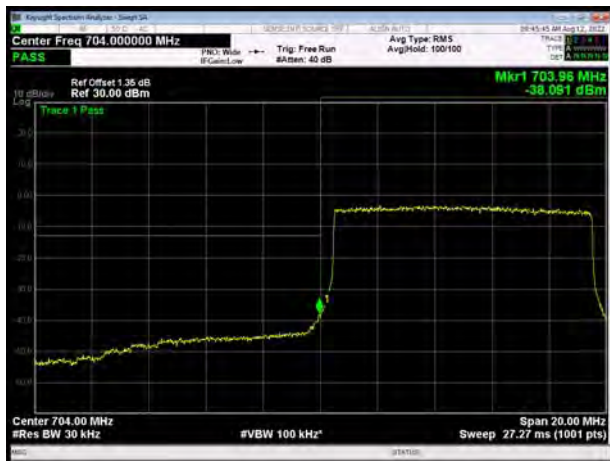
LTE Band 17 16QAM 10MHz CH-Low, 1 RB



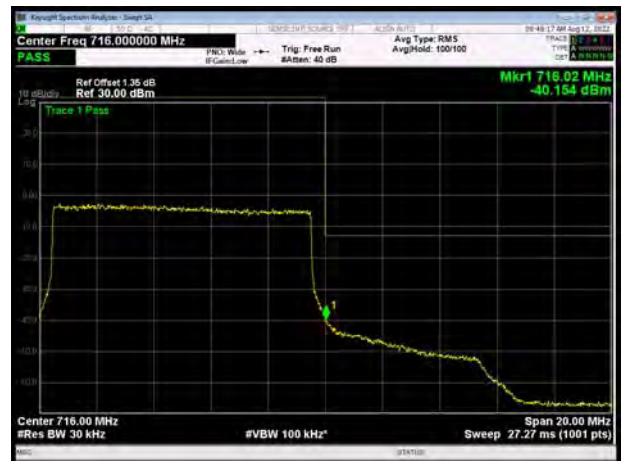
LTE Band 17 16QAM 10MHz CH-High, 1 RB



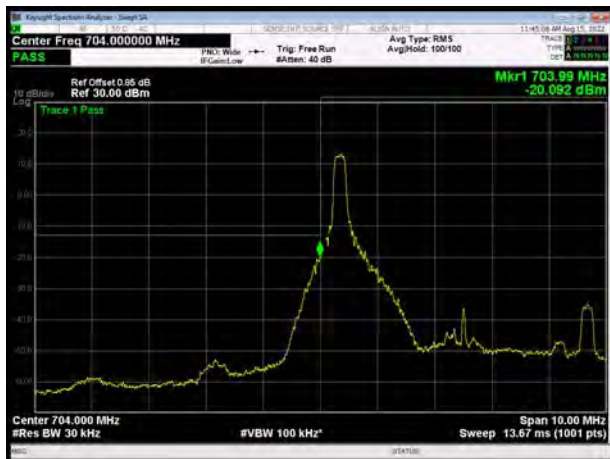
LTE Band 17 16QAM 10MHz CH-Low, 100%RB



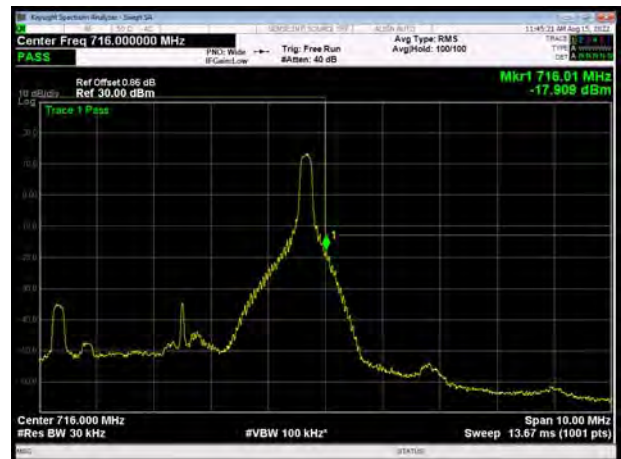
LTE Band 17 16QAM 10MHz CH-High, 100%RB



LTE Band 17 64QAM 5MHz CH-Low, 1 RB

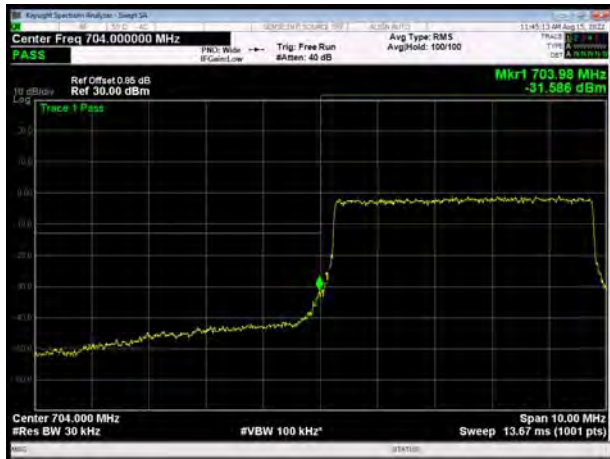


LTE Band 17 64QAM 5MHz CH-High, 1 RB





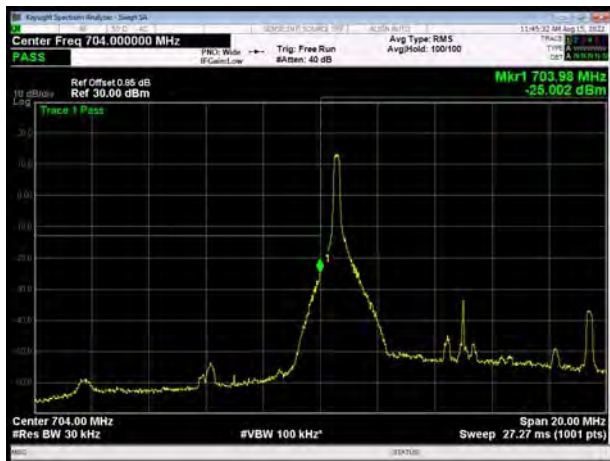
LTE Band 17 64QAM 5MHz CH-Low, 100%RB



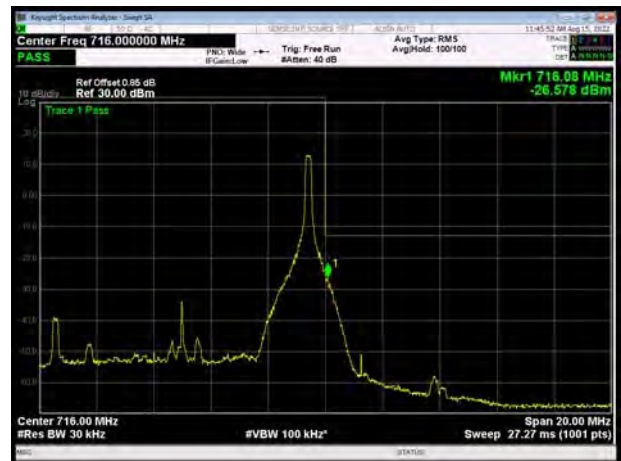
LTE Band 17 64QAM 5MHz CH-High, 100%RB



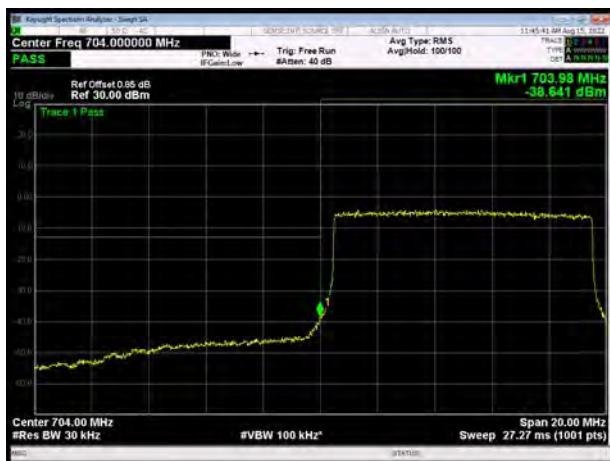
LTE Band 17 64QAM 10MHz CH-Low, 1 RB



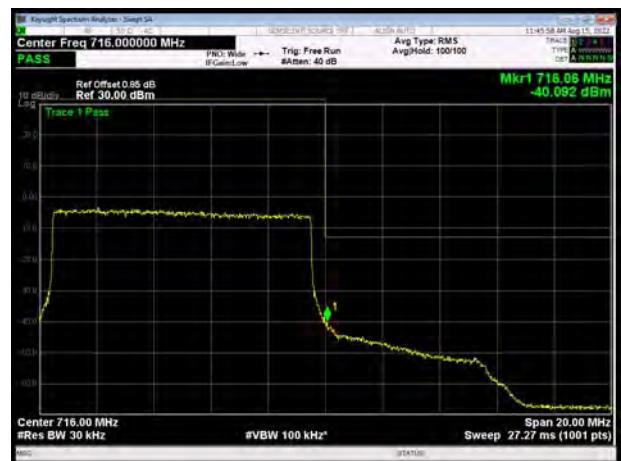
LTE Band 17 64QAM 10MHz CH-High, 1 RB



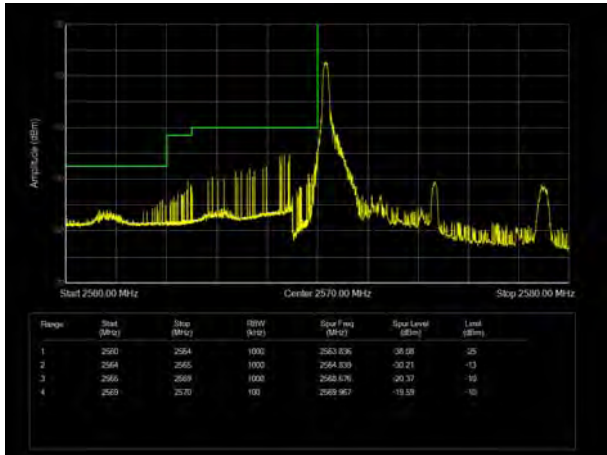
LTE Band 17 64QAM 10MHz CH-Low, 100%RB



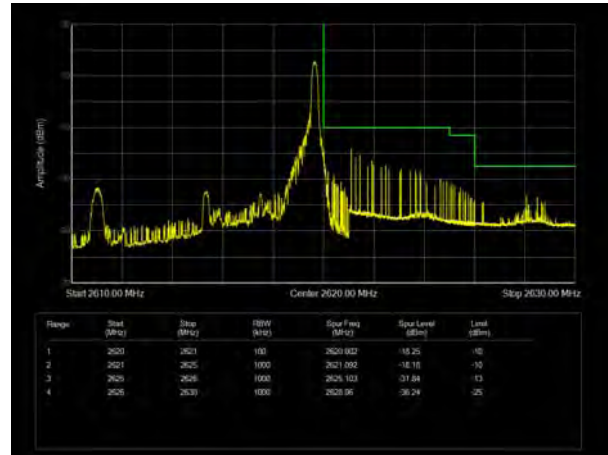
LTE Band 17 64QAM 10MHz CH-High, 100%RB



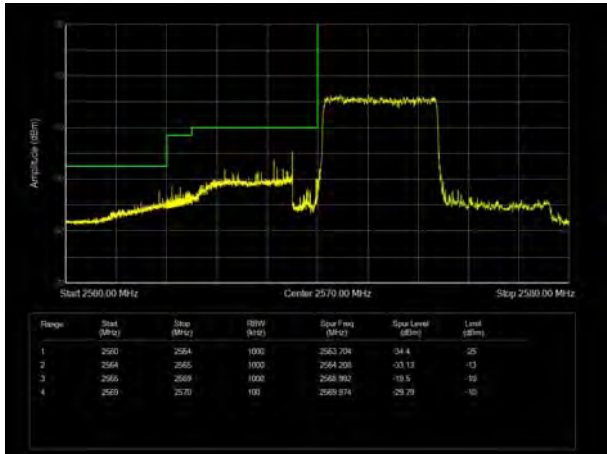
LTE Band 38 QPSK 5MHz CH-Low, 1 RB



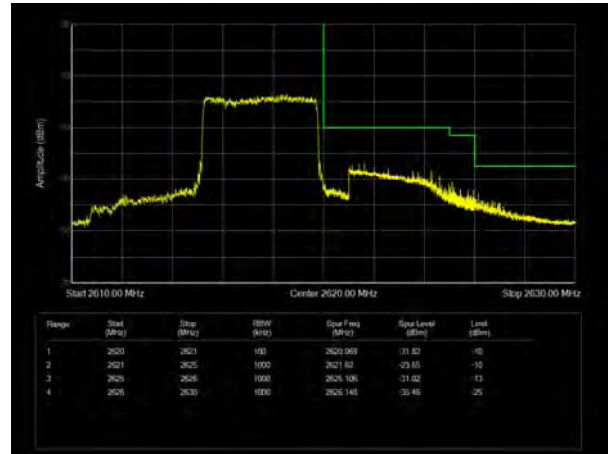
LTE Band 38 QPSK 5MHz CH-High, 1 RB



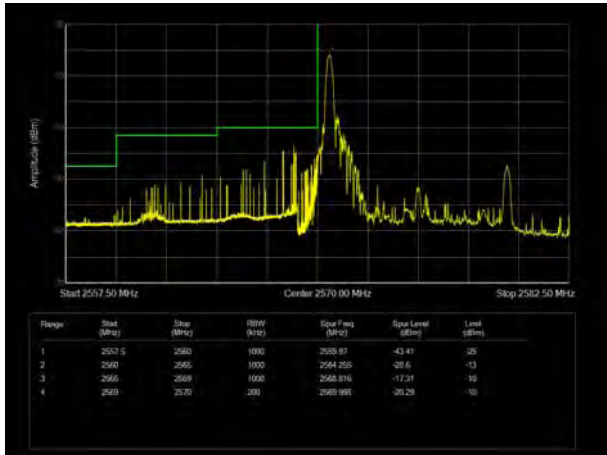
LTE Band 38 QPSK 5MHz CH-Low, 100%RB



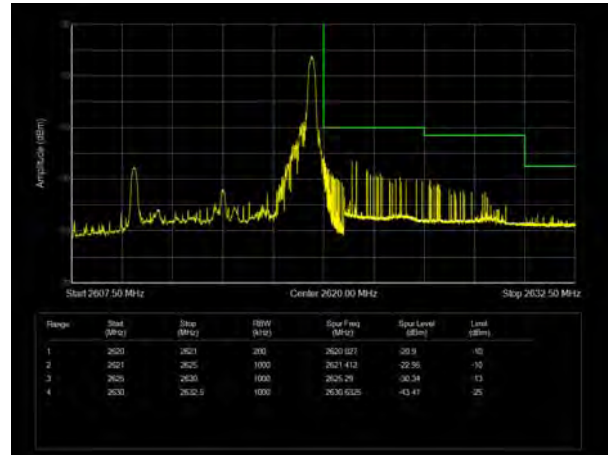
LTE Band 38 QPSK 5MHz CH-High, 100%RB



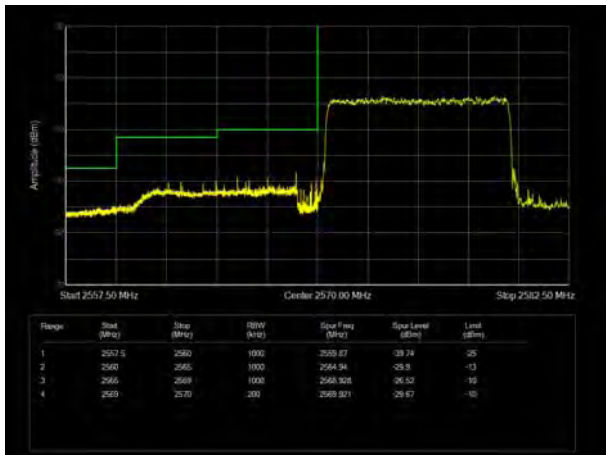
LTE Band 38 QPSK 10MHz CH-Low, 1 RB



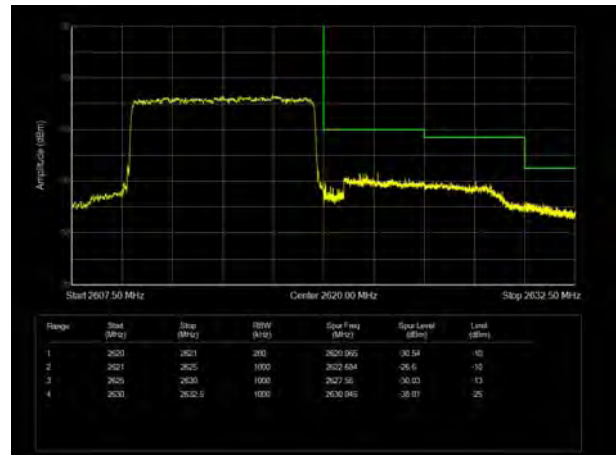
LTE Band 38 QPSK 10MHz CH-High, 1 RB



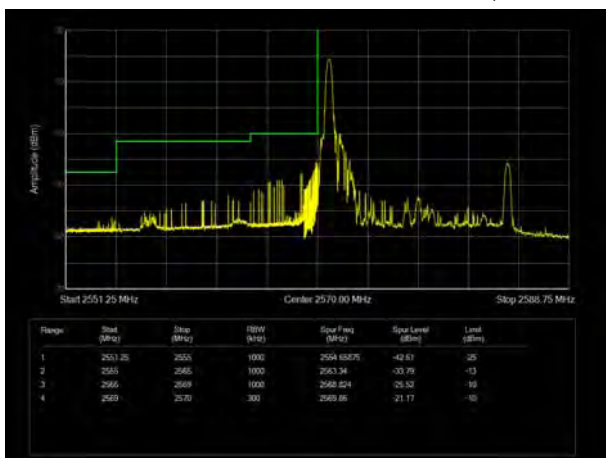
LTE Band 38 QPSK 10MHz CH-Low, 100%RB



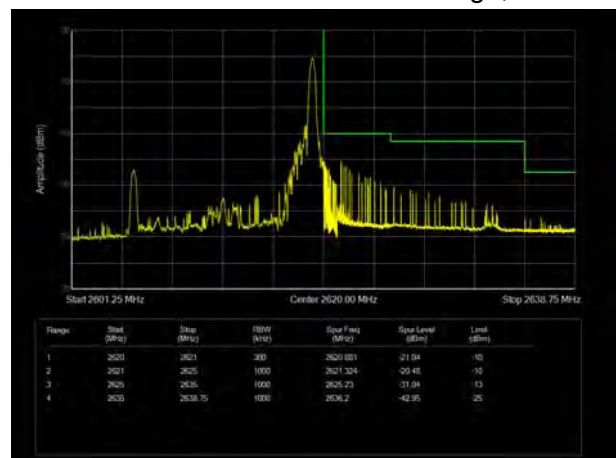
LTE Band 38 QPSK 10MHz CH-High, 100%RB



LTE Band 38 QPSK 15MHz CH-Low, 1 RB



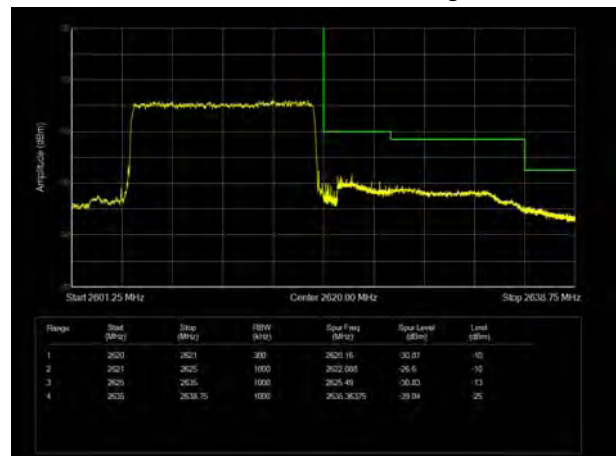
LTE Band 38 QPSK 15MHz CH-High, 1 RB



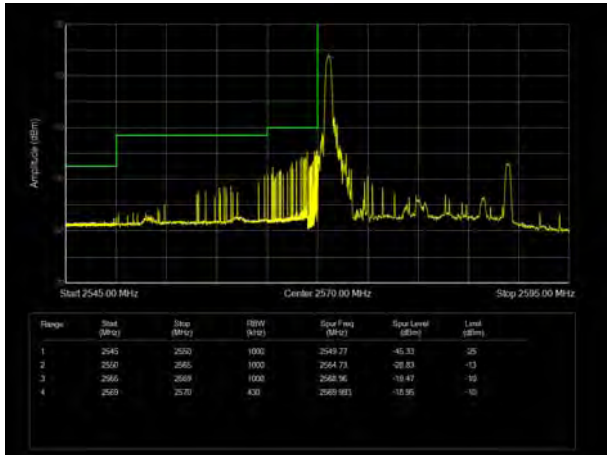
LTE Band 38 QPSK 15MHz CH-Low, 100%RB



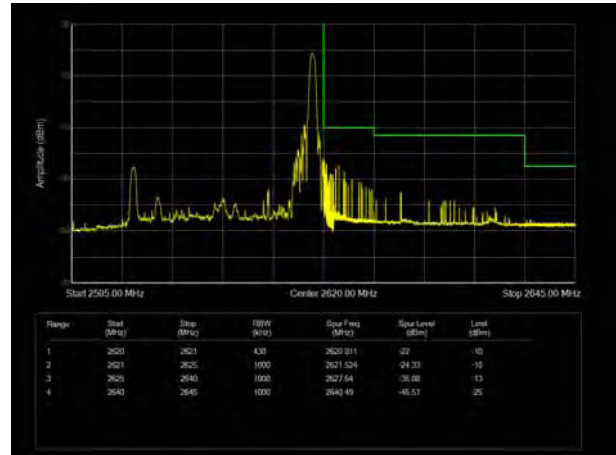
LTE Band 38 QPSK 15MHz CH-High, 100%RB



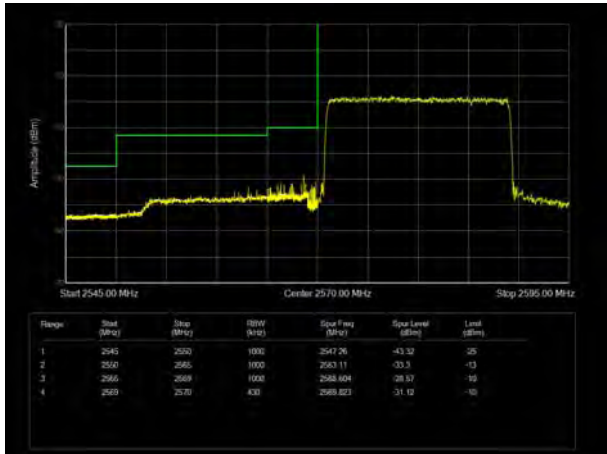
LTE Band 38 QPSK 20MHz CH-Low, 1 RB



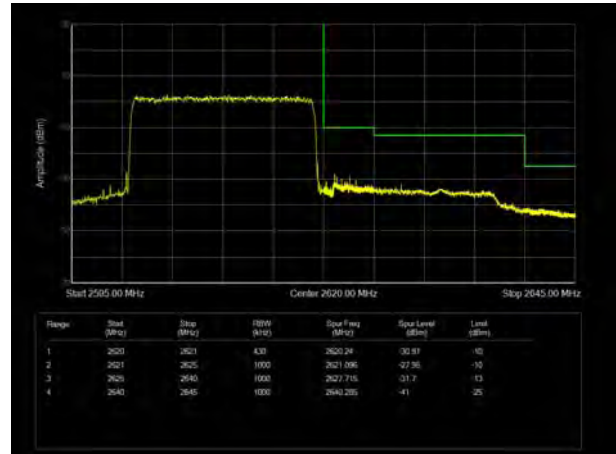
LTE Band 38 QPSK 20MHz CH-High, 1 RB



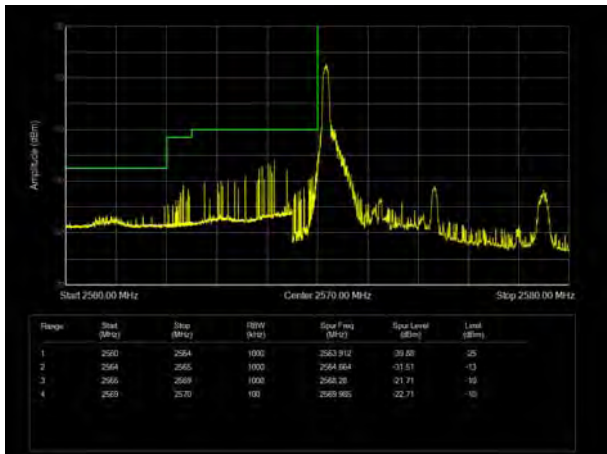
LTE Band 38 QPSK 20MHz CH-Low, 100%RB



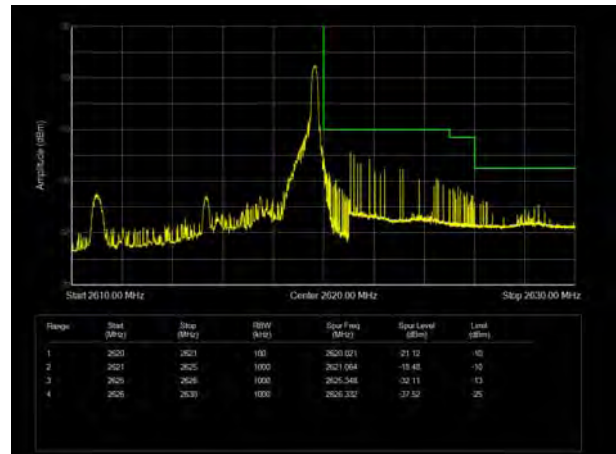
LTE Band 38 QPSK 20MHz CH-High, 100%RB



LTE Band 38 16QAM 5MHz CH-Low, 1 RB

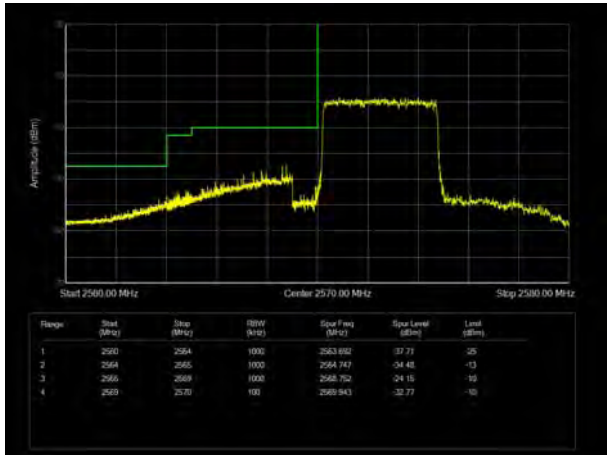


LTE Band 38 16QAM 5MHz CH-High, 1 RB

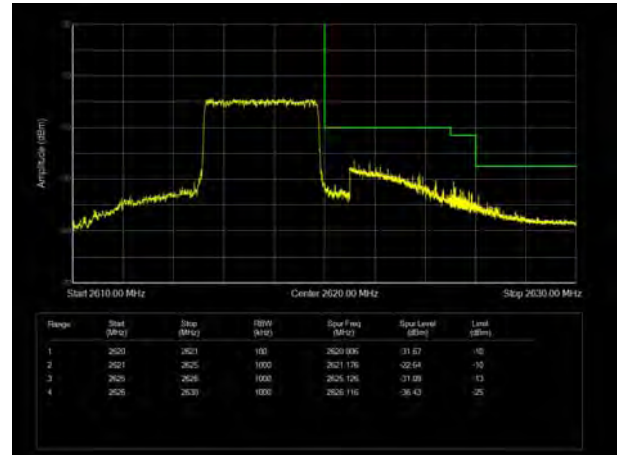




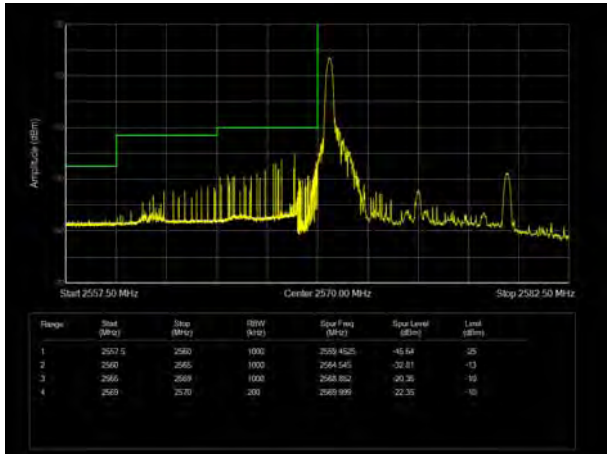
LTE Band 38 16QAM 5MHz CH-Low, 100%RB



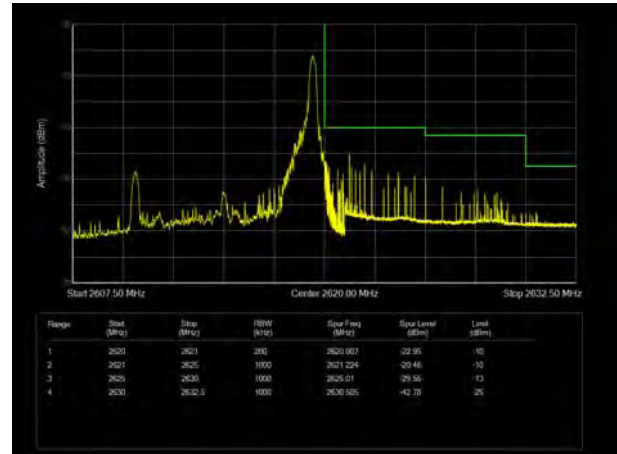
LTE Band 38 16QAM 5MHz CH-High, 100%RB



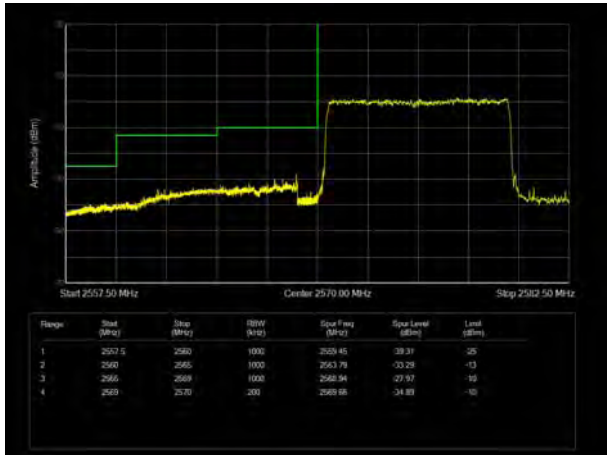
LTE Band 38 16QAM 10MHz CH-Low, 1 RB



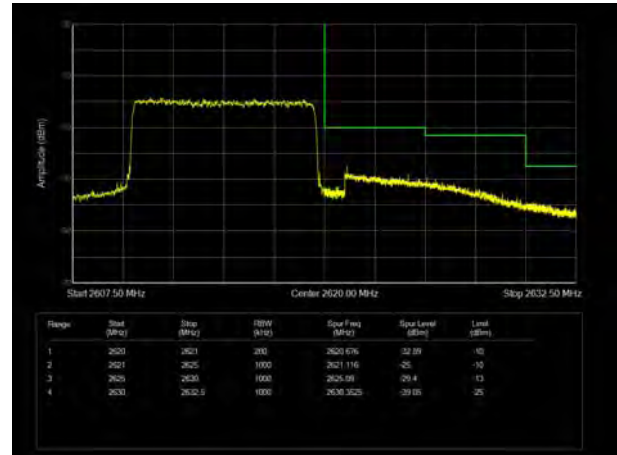
LTE Band 38 16QAM 10MHz CH-High, 1 RB



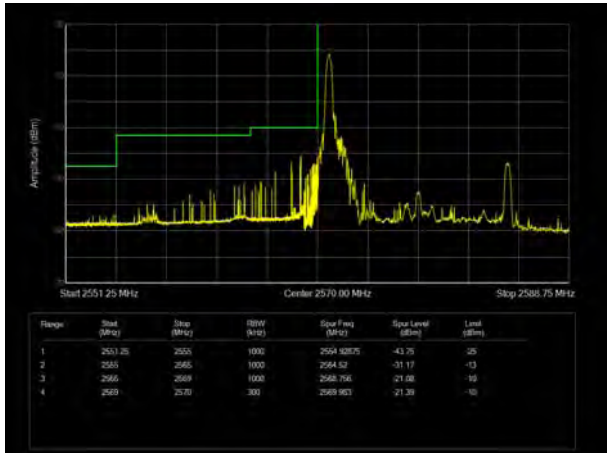
LTE Band 38 16QAM 10MHz CH-Low, 100%RB



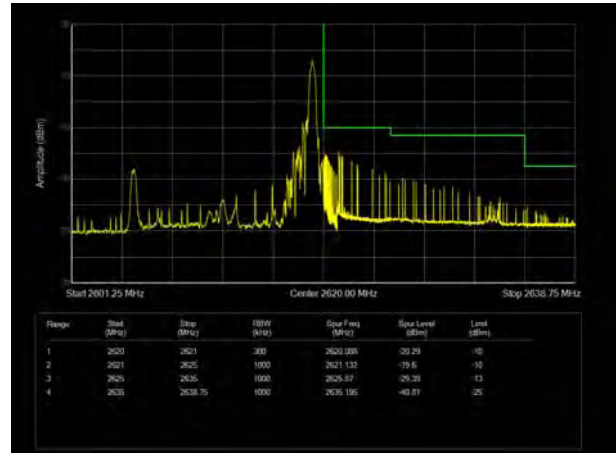
LTE Band 38 16QAM 10MHz CH-High, 100%RB



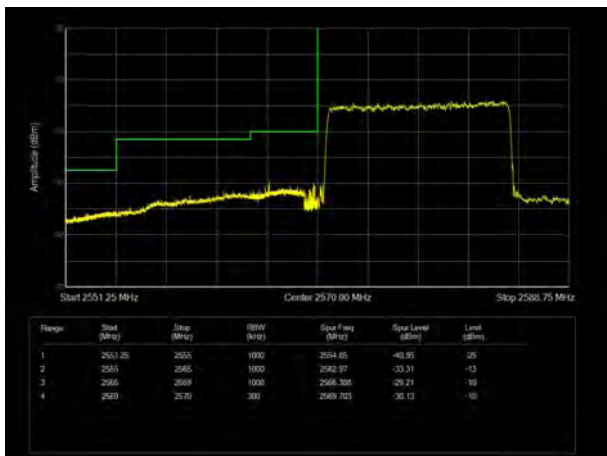
LTE Band 38 16QAM 15MHz CH-Low, 1 RB



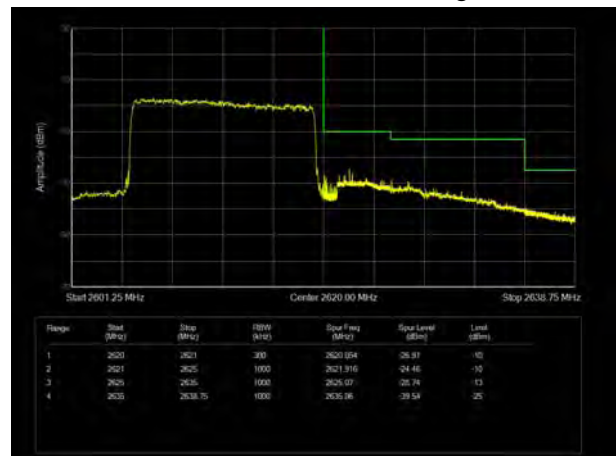
LTE Band 38 16QAM 15MHz CH-High, 1 RB



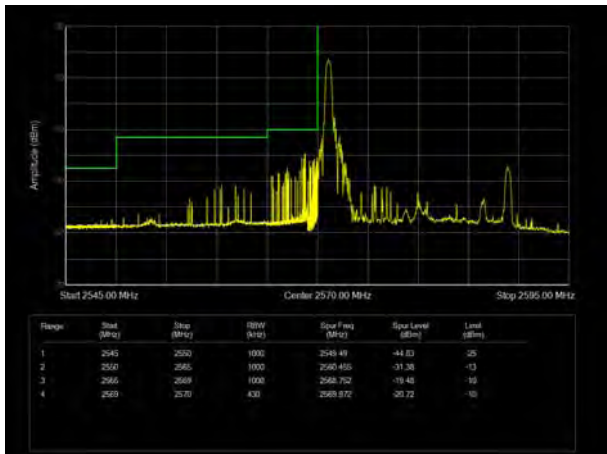
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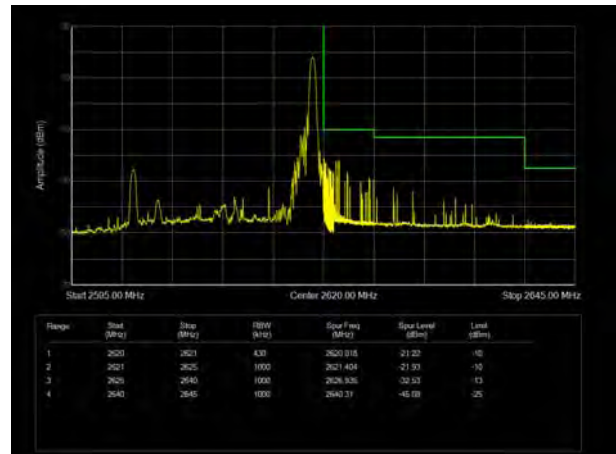
LTE Band 38 16QAM 15MHz CH-High, 100%RB



LTE Band 38 16QAM 20MHz CH-Low, 1 RB

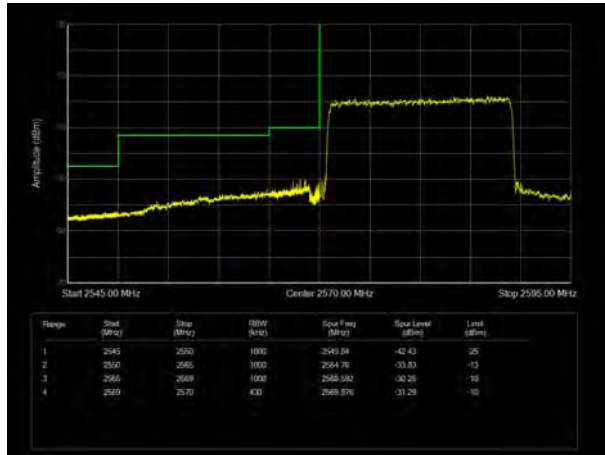


LTE Band 38 16QAM 20MHz CH-High, 1 RB

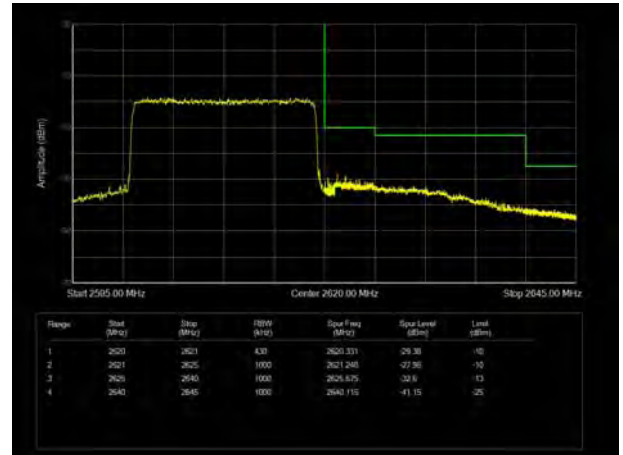




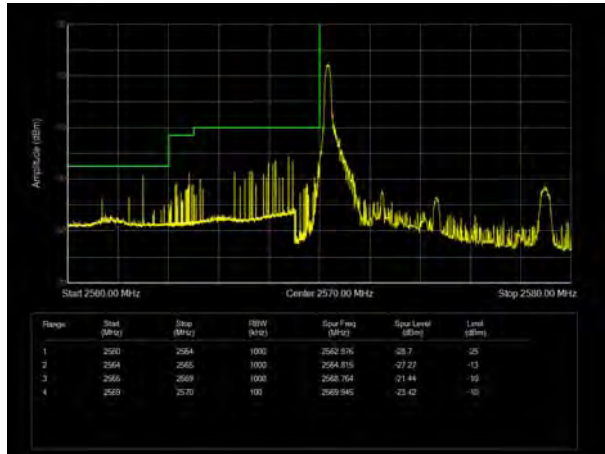
LTE Band 38 16QAM 20MHz CH-Low, 100%RB



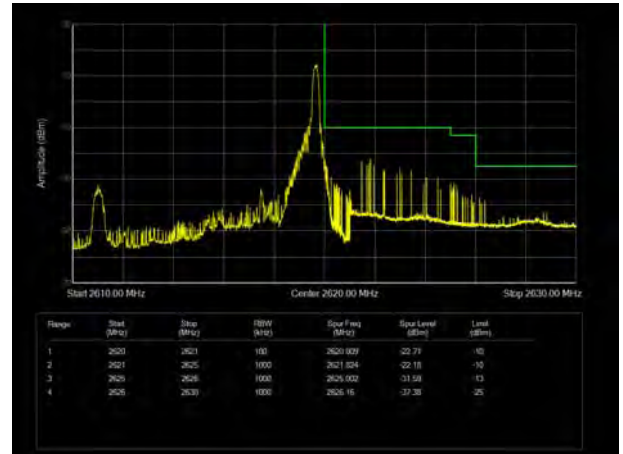
LTE Band 38 16QAM 20MHz CH-High, 100%RB



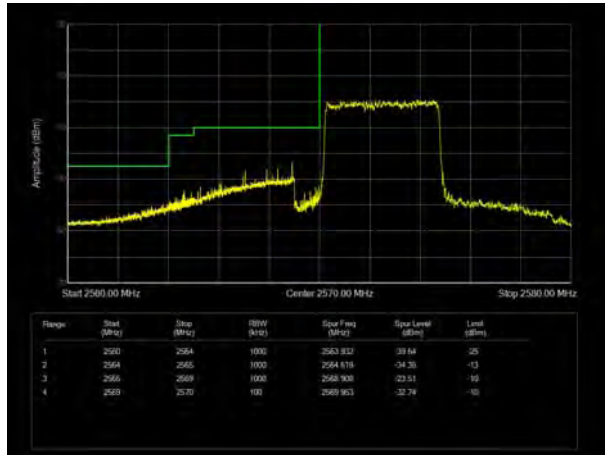
LTE Band 38 64QAM 5MHz CH-Low, 1 RB



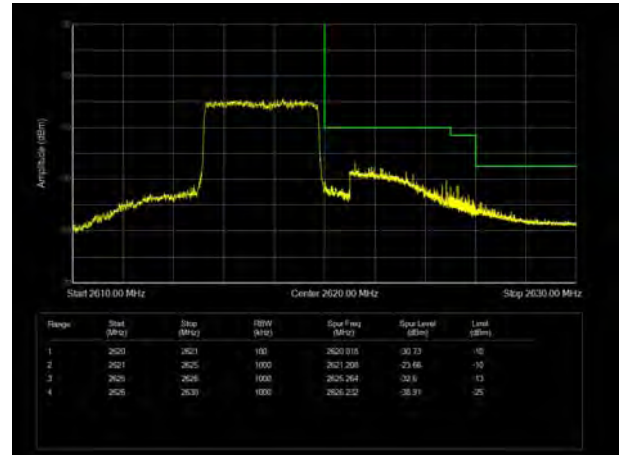
LTE Band 38 64QAM 5MHz CH-High, 1 RB



LTE Band 38 64QAM 5MHz CH-Low, 100%RB

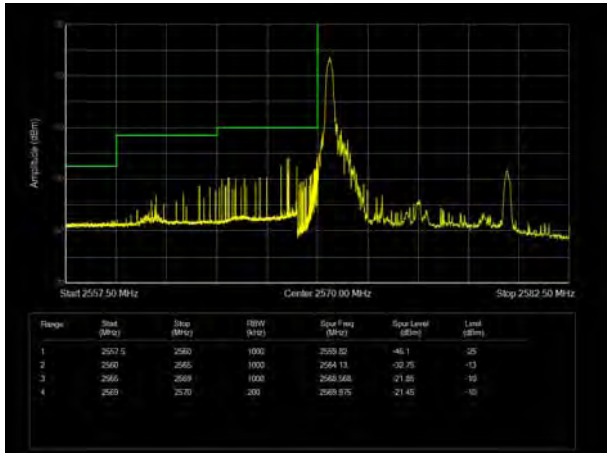


LTE Band 38 64QAM 5MHz CH-High, 100%RB

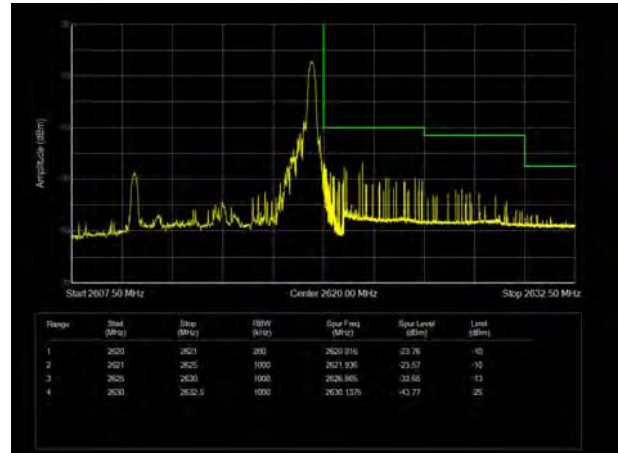




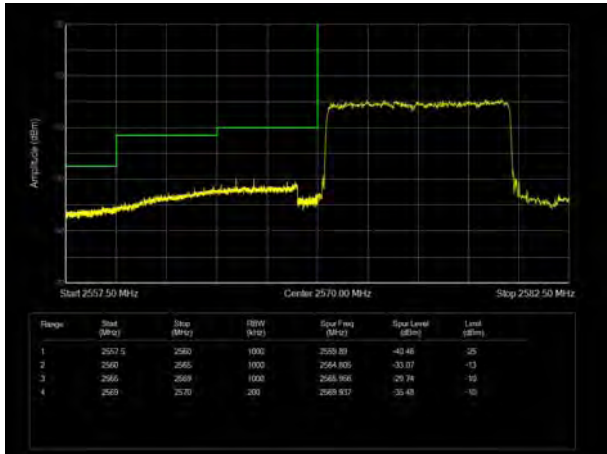
LTE Band 38 64QAM 10MHz CH-Low, 1 RB



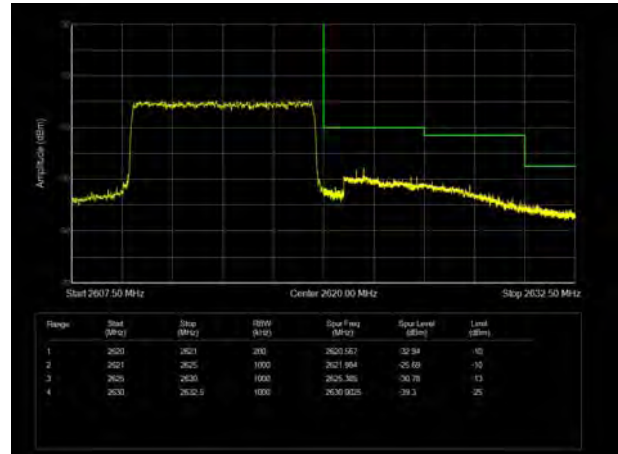
LTE Band 38 64QAM 10MHz CH-High, 1 RB



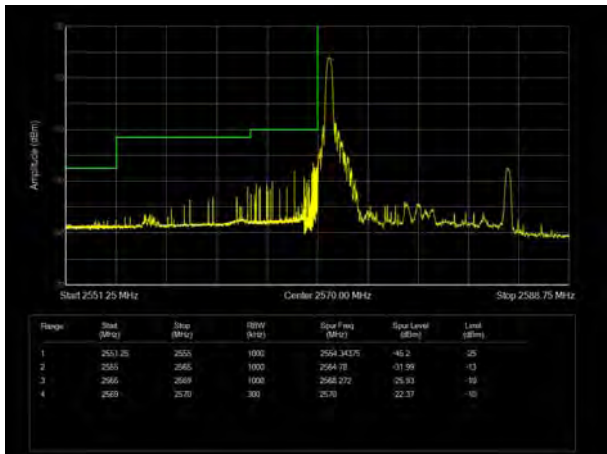
LTE Band 38 64QAM 10MHz CH-Low, 100%RB



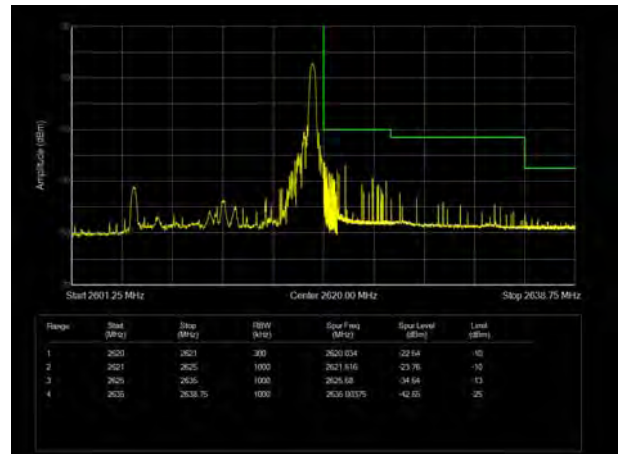
LTE Band 38 64QAM 10MHz CH-High, 100%RB



LTE Band 38 64QAM 15MHz CH-Low, 1 RB

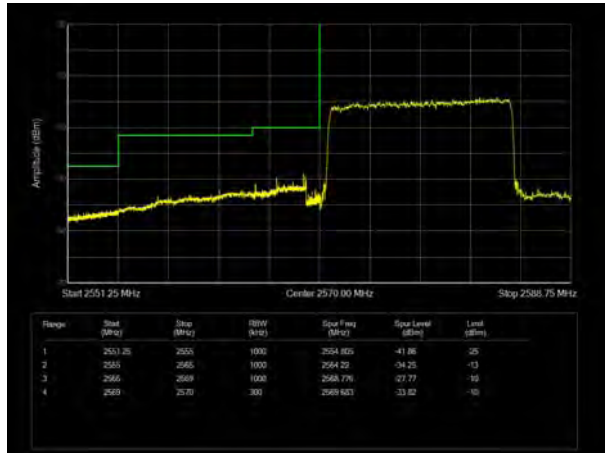


LTE Band 38 64QAM 15MHz CH-High, 1 RB

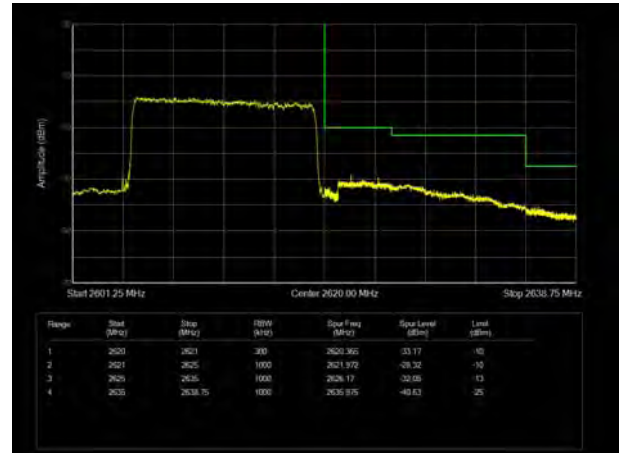




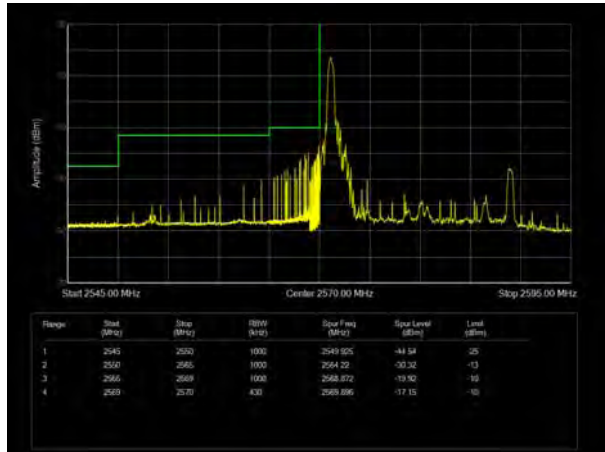
LTE Band 38 64QAM 15MHz CH-Low, 100%RB



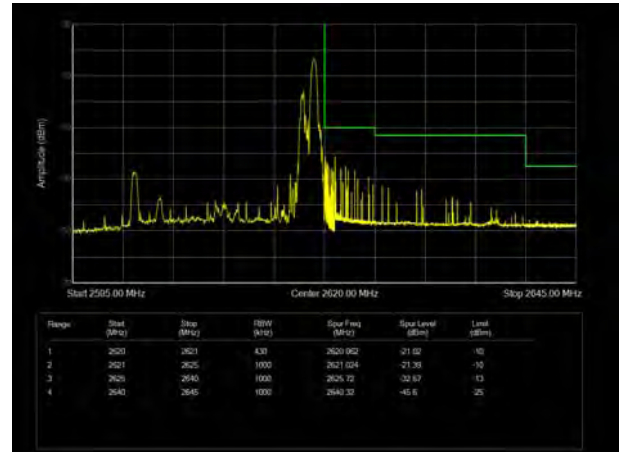
LTE Band 38 64QAM 15MHz CH-High, 100%RB



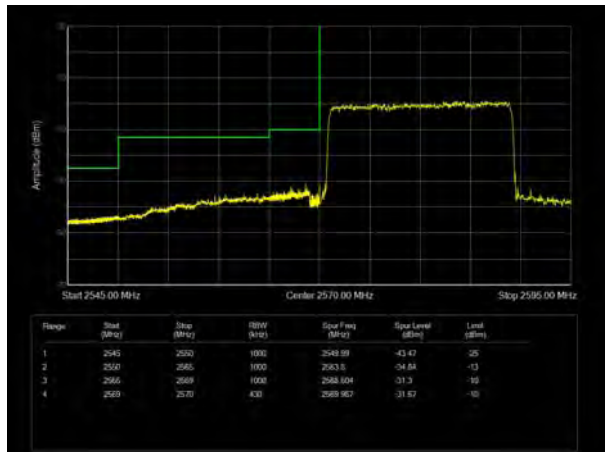
LTE Band 38 64QAM 20MHz CH-Low, 1 RB



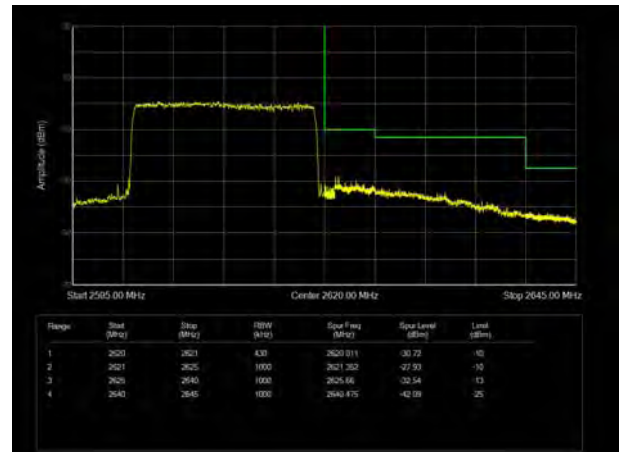
LTE Band 38 64QAM 20MHz CH-High, 1 RB



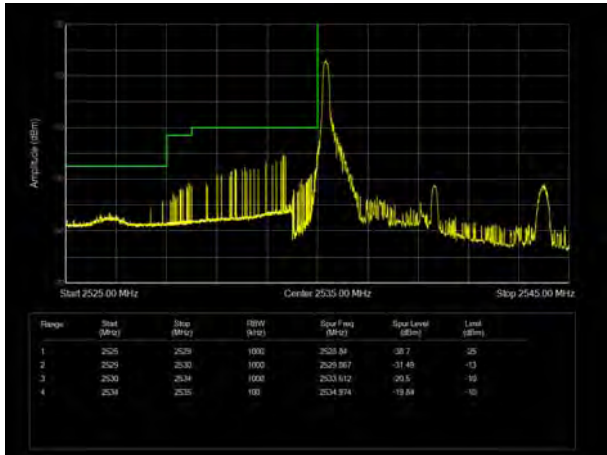
LTE Band 38 64QAM 20MHz CH-Low, 100%RB



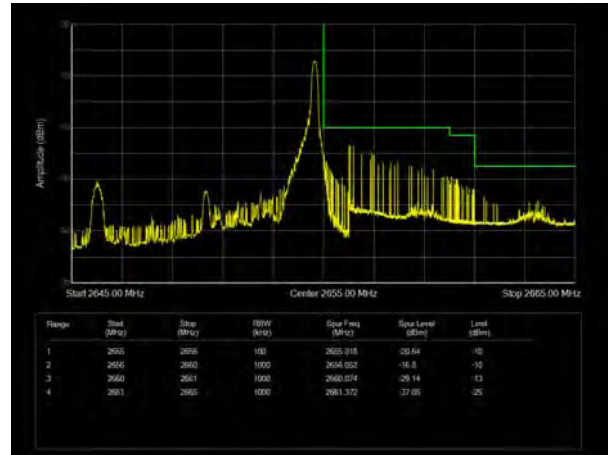
LTE Band 38 64QAM 20MHz CH-High, 100%RB



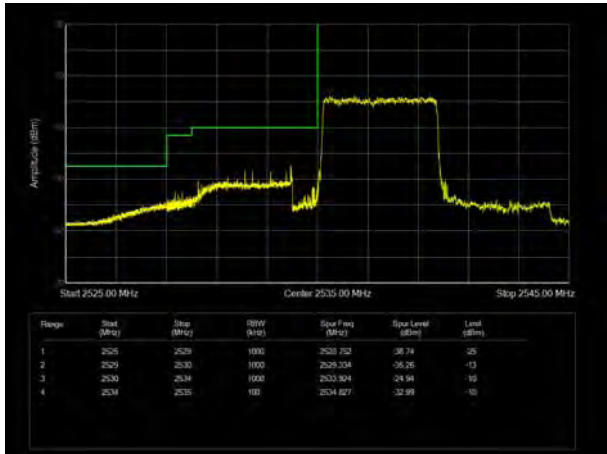
LTE Band 41 QPSK 5MHz CH-Low, 1 RB



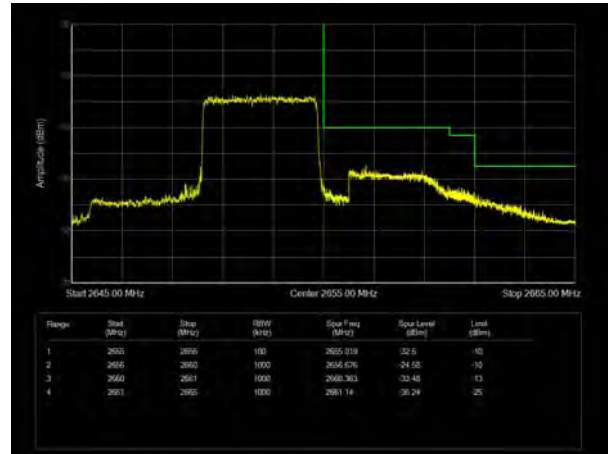
LTE Band 41 QPSK 5MHz CH-High, 1 RB



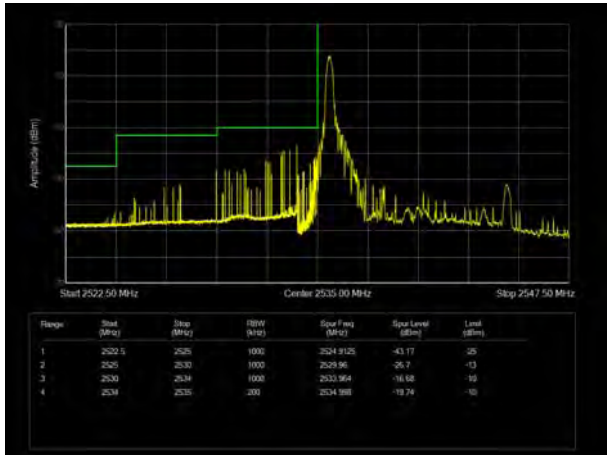
LTE Band 41 QPSK 5MHz CH-Low, 100%RB



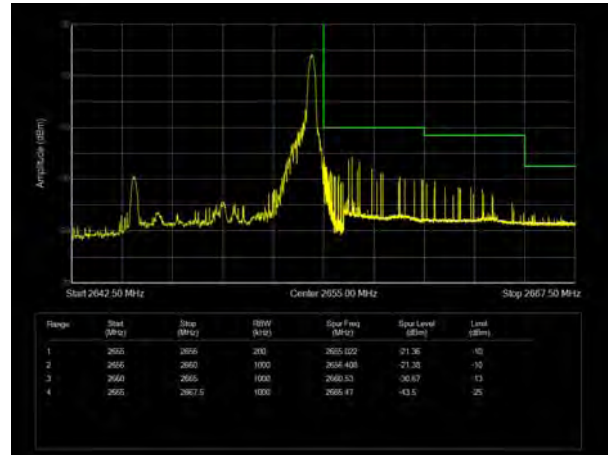
LTE Band 41 QPSK 5MHz CH-High, 100%RB



LTE Band 41 QPSK 10MHz CH-Low, 1 RB

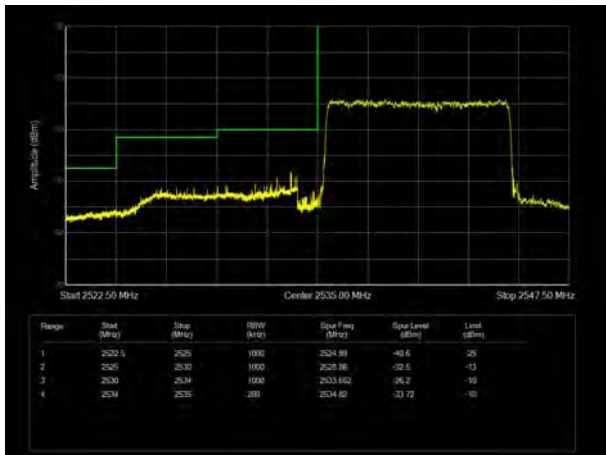


LTE Band 41 QPSK 10MHz CH-High, 1 RB

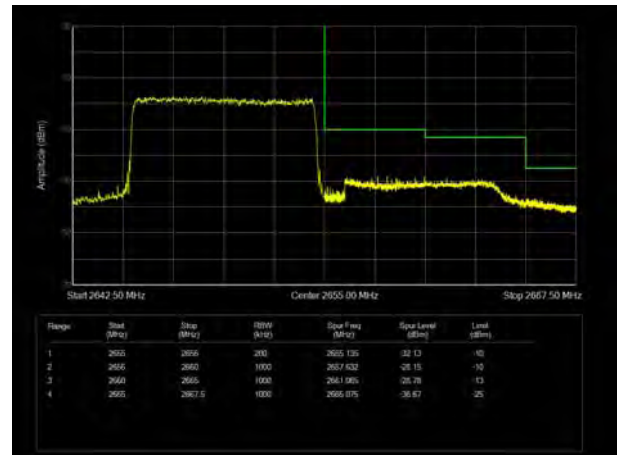




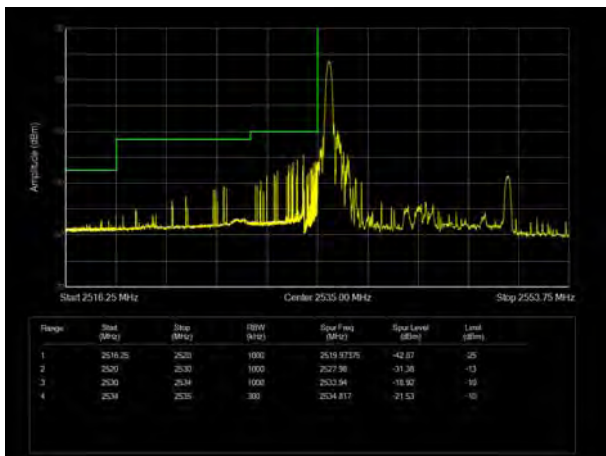
LTE Band 41 QPSK 10MHz CH-Low, 100%RB



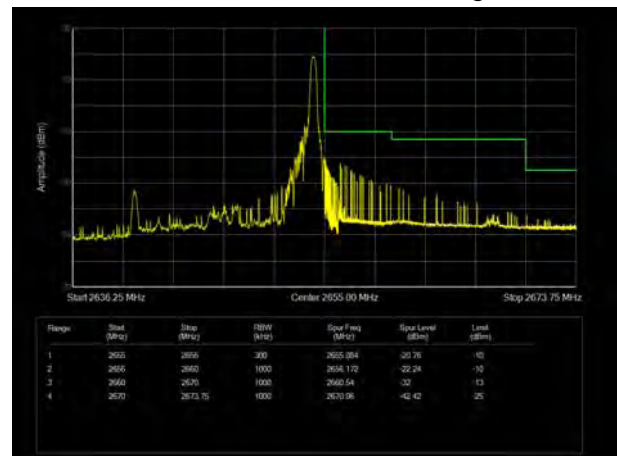
LTE Band 41 QPSK 10MHz CH-High, 100%RB



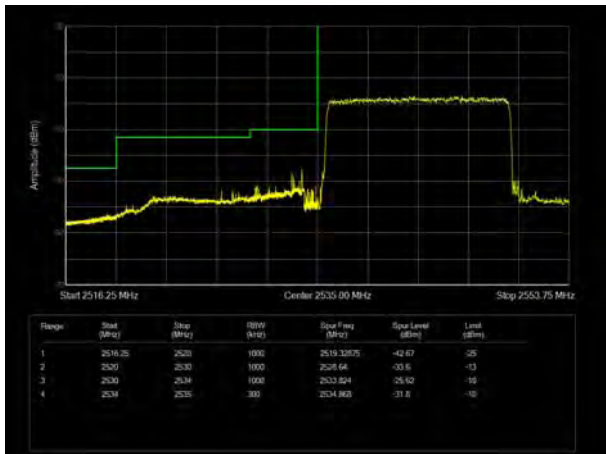
LTE Band 41 QPSK 15MHz CH-Low, 1 RB



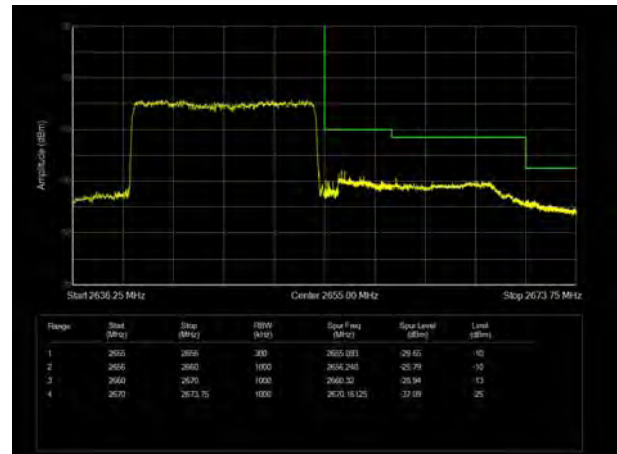
LTE Band 41 QPSK 15MHz CH-High, 1 RB



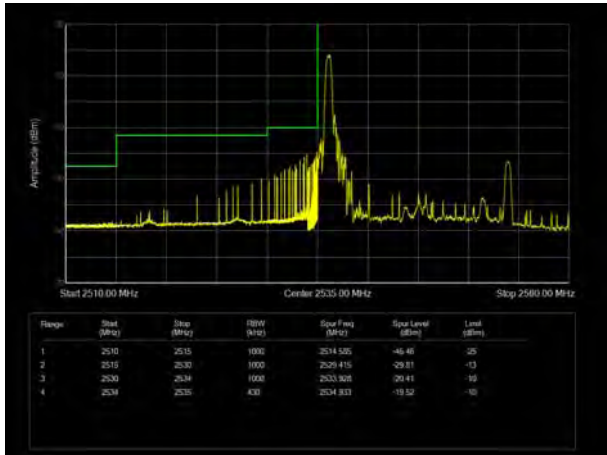
LTE Band 41 QPSK 15MHz CH-Low, 100%RB



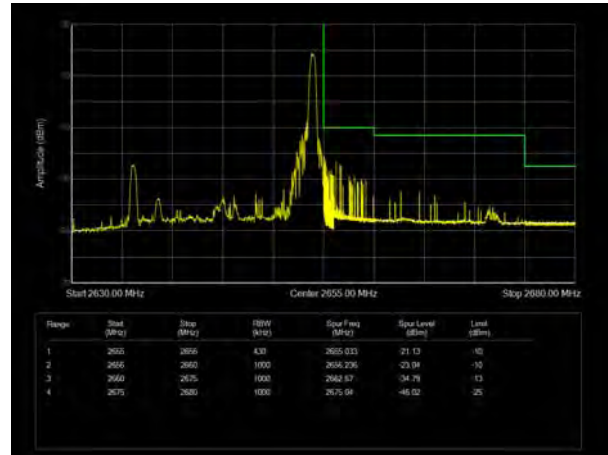
LTE Band 41 QPSK 15MHz CH-High, 100%RB



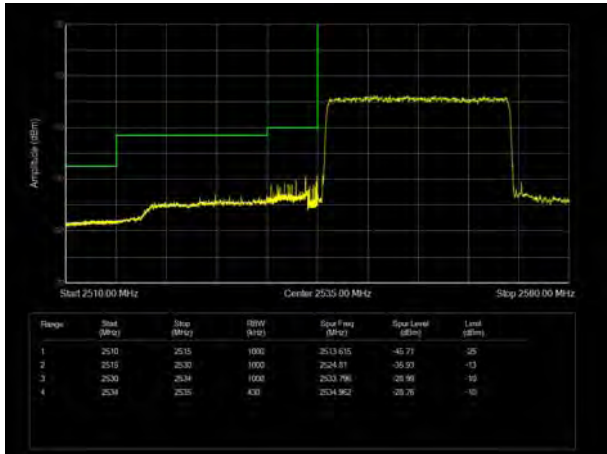
LTE Band 41 QPSK 20MHz CH-Low, 1 RB



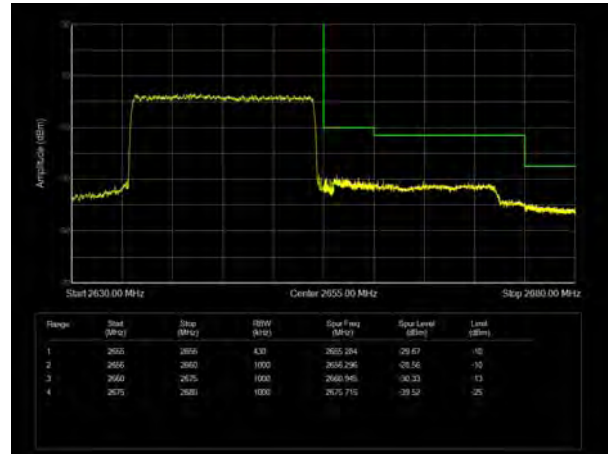
LTE Band 41 QPSK 20MHz CH-High, 1 RB



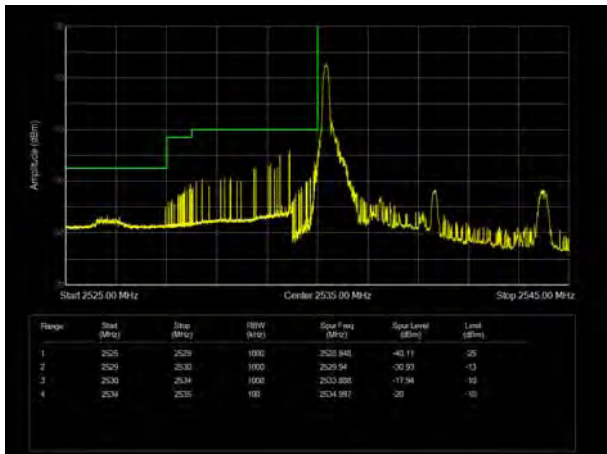
LTE Band 41 QPSK 20MHz CH-Low, 100%RB



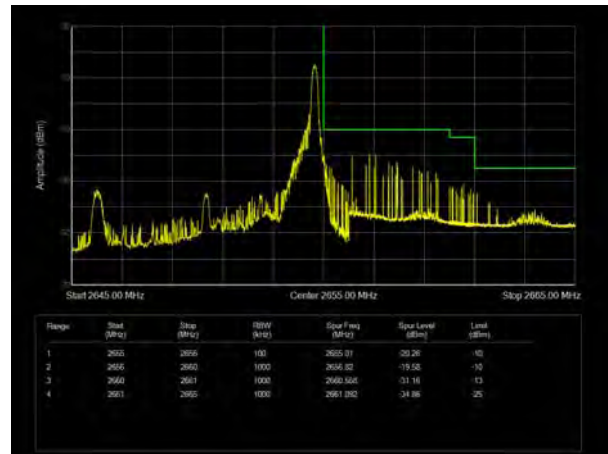
LTE Band 41 QPSK 20MHz CH-High, 100%RB



LTE Band 41 16QAM 5MHz CH-Low, 1 RB

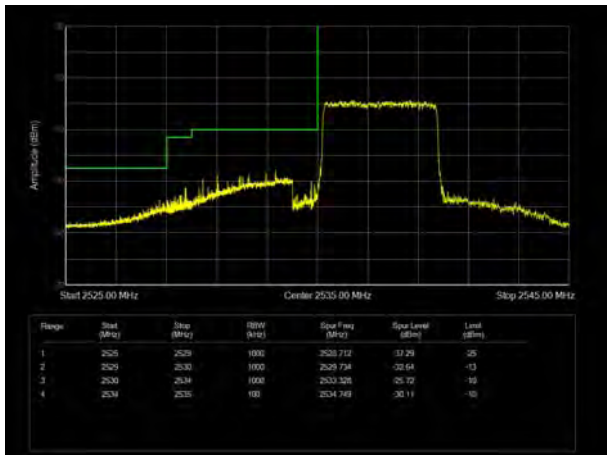


LTE Band 41 16QAM 5MHz CH-High, 1 RB

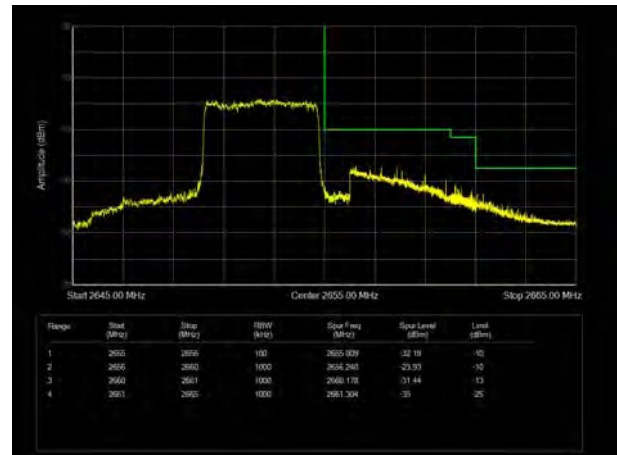




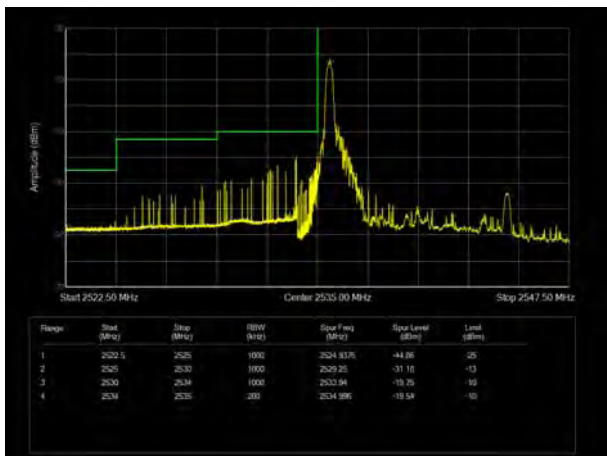
LTE Band 41 16QAM 5MHz CH-Low, 100%RB



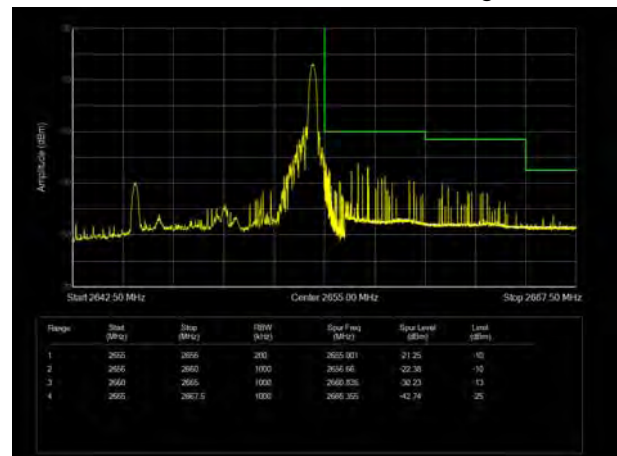
LTE Band 41 16QAM 5MHz CH-High, 100%RB



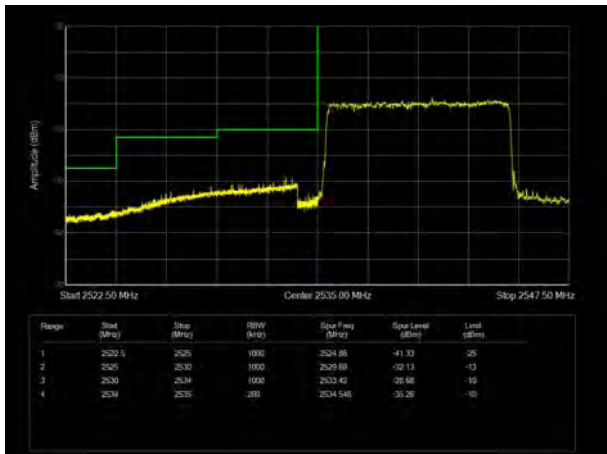
LTE Band 41 16QAM 10MHz CH-Low, 1 RB



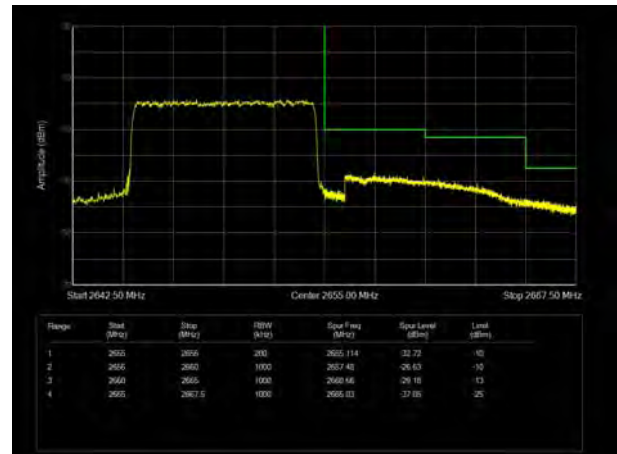
LTE Band 41 16QAM 10MHz CH-High, 1 RB



LTE Band 41 16QAM 10MHz CH-Low, 100%RB

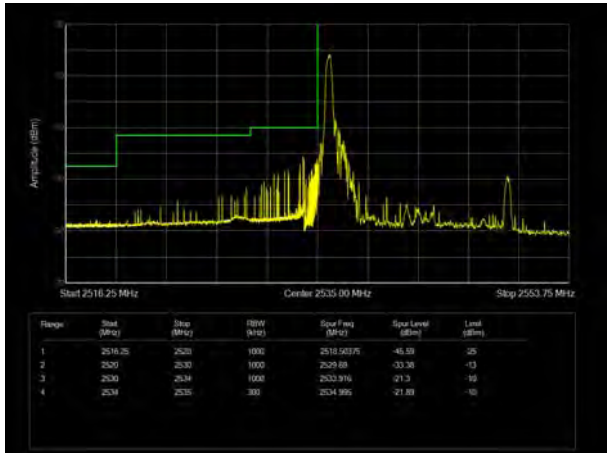


LTE Band 41 16QAM 10MHz CH-High, 100%RB

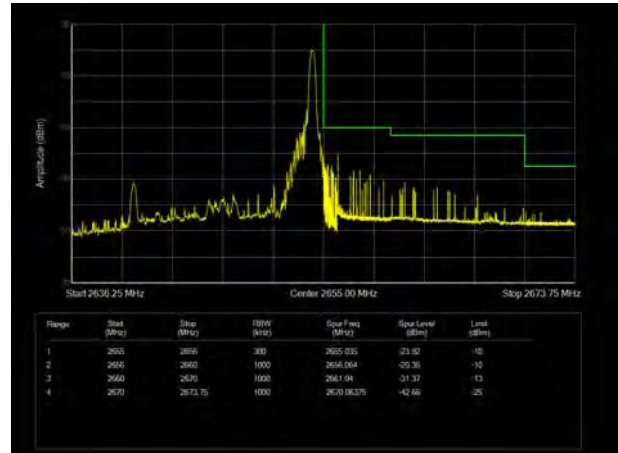




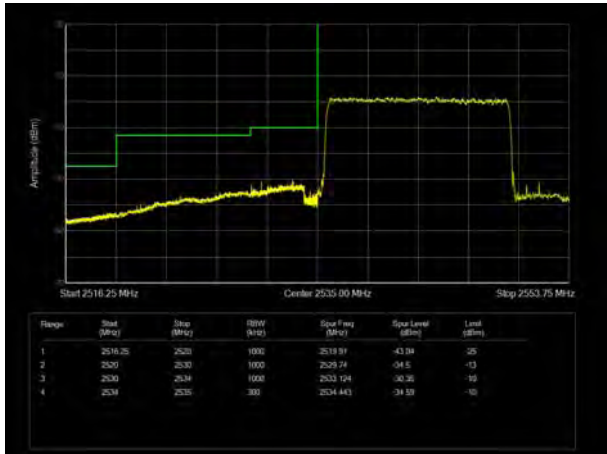
LTE Band 41 16QAM 15MHz CH-Low, 1 RB



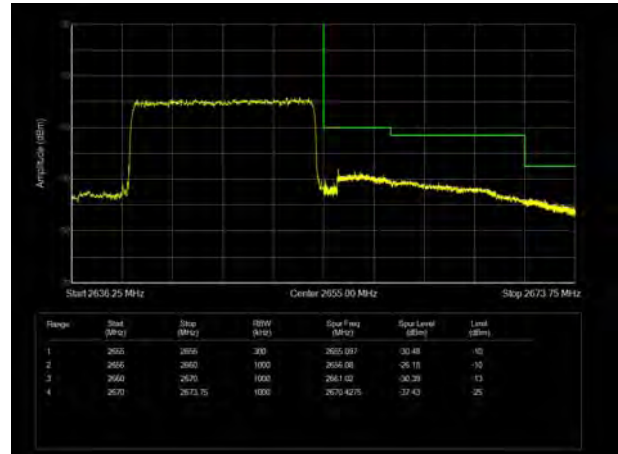
LTE Band 41 16QAM 15MHz CH-High, 1 RB



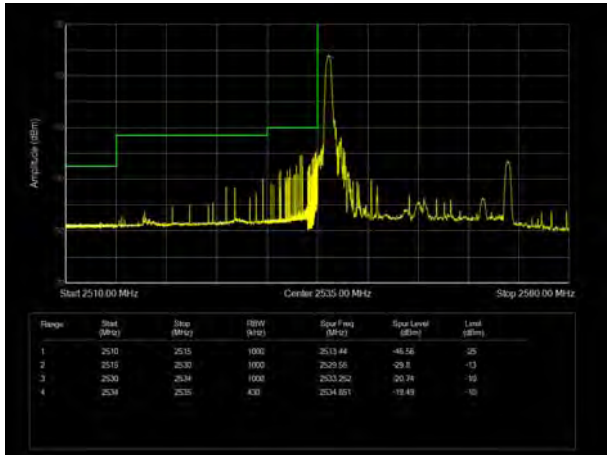
LTE Band 41 16QAM 15MHz CH-Low, 100%RB



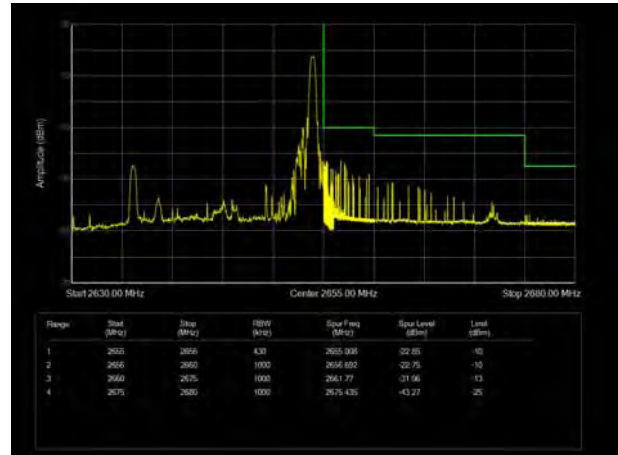
LTE Band 41 16QAM 15MHz CH-High, 100%RB



LTE Band 41 16QAM 20MHz CH-Low, RB 1

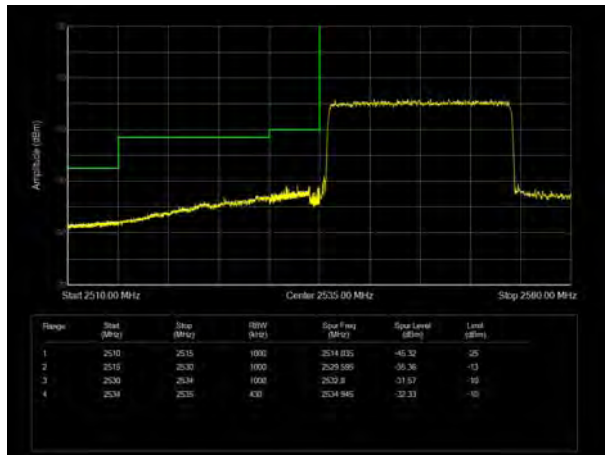


LTE Band 41 16QAM 20MHz CH-High, RB 1

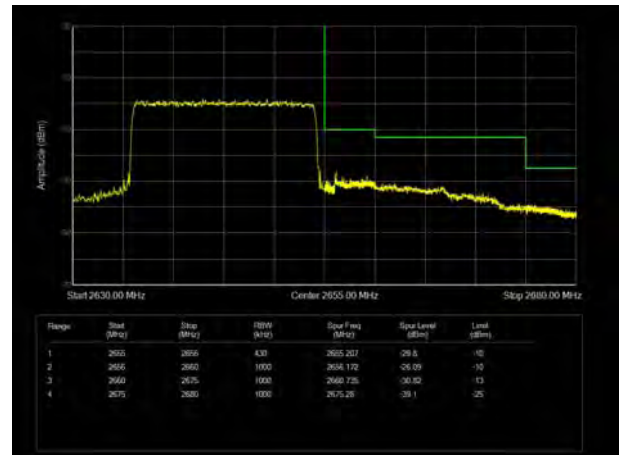




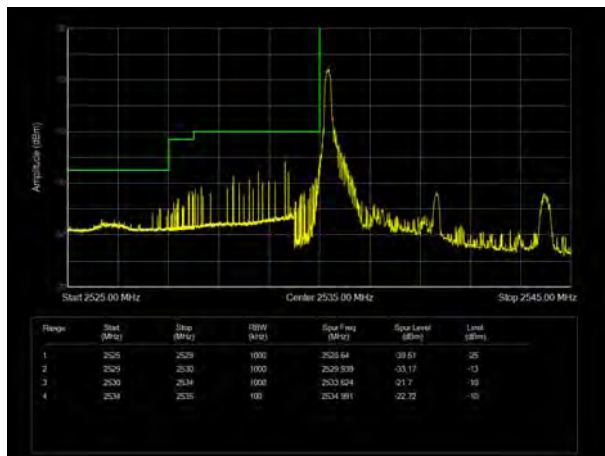
LTE Band 41 16QAM 20MHz CH-Low, 100%RB



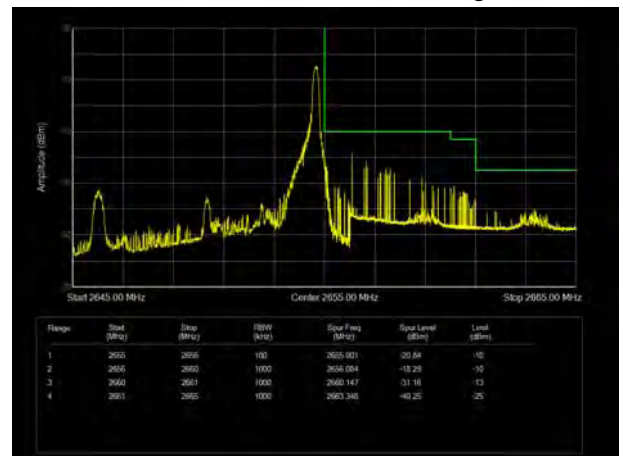
LTE Band 41 16QAM 20MHz CH-High, 100%RB



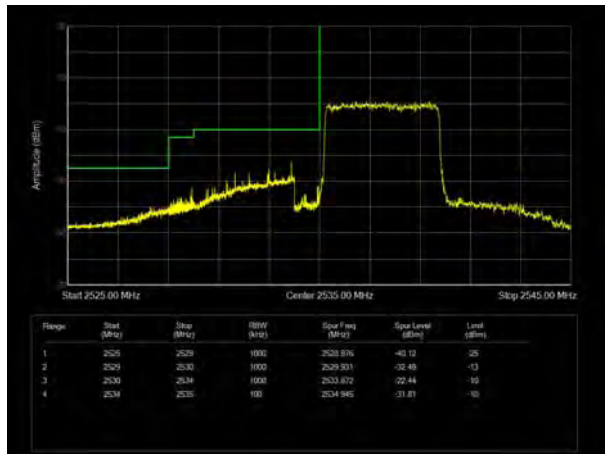
LTE Band 41 64QAM 5MHz CH-Low, 1 RB



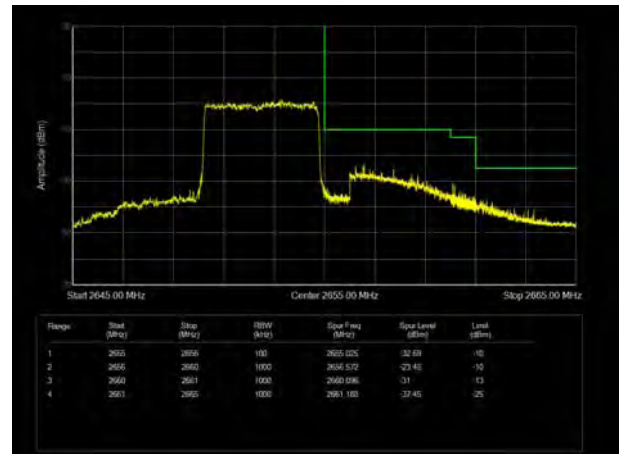
LTE Band 41 64QAM 5MHz CH-High, 1 RB



LTE Band 41 64QAM 5MHz CH-Low, 100%RB

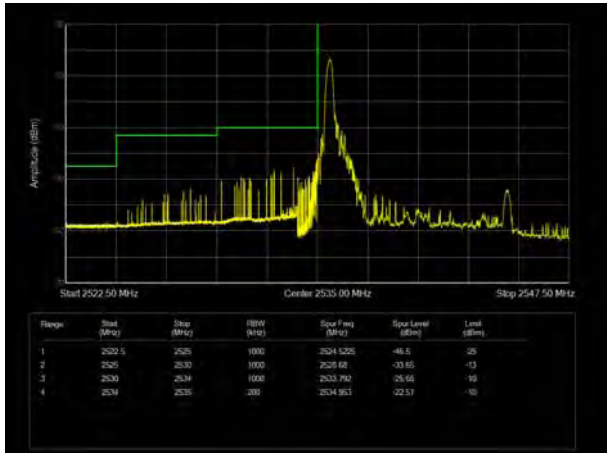


LTE Band 41 64QAM 5MHz CH-High, 100%RB

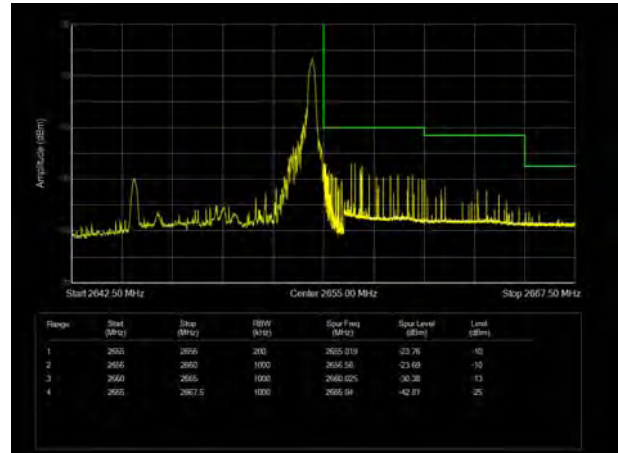




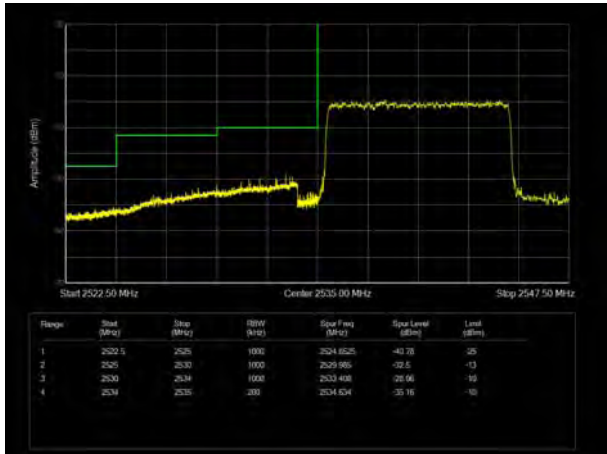
LTE Band 41 64QAM 10MHz CH-Low, 1 RB



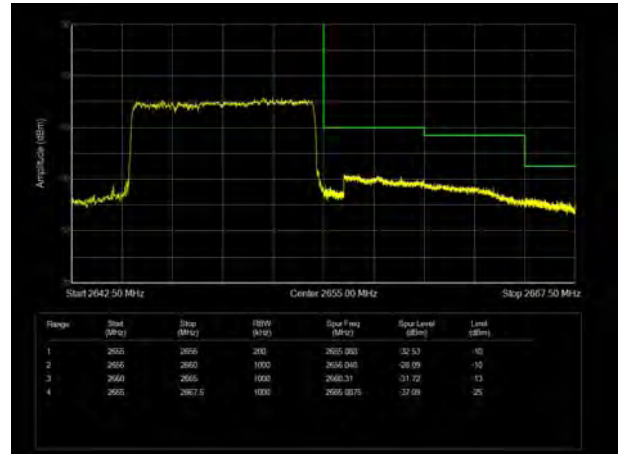
LTE Band 41 64QAM 10MHz CH-High, 1 RB



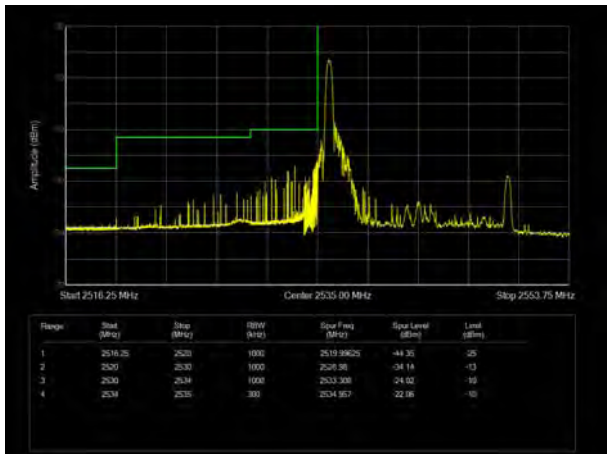
LTE Band 41 64QAM 10MHz CH-Low, 100%RB



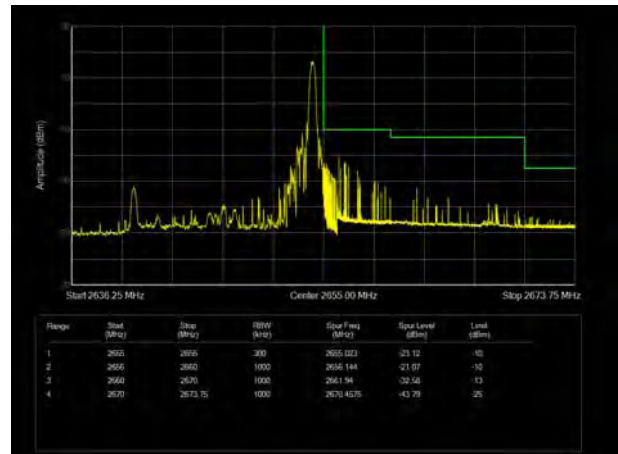
LTE Band 41 64QAM 10MHz CH-High, 100%RB



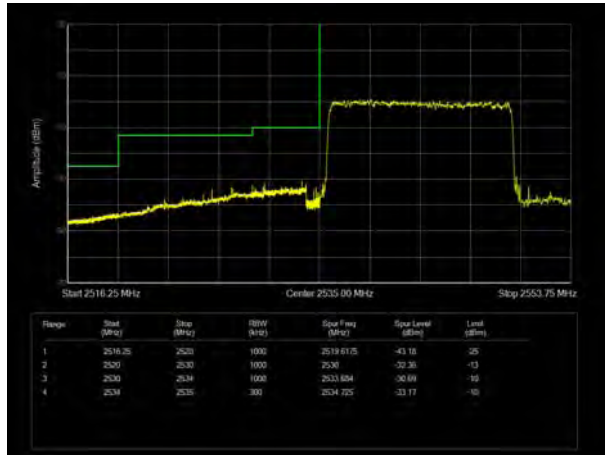
LTE Band 41 64QAM 15MHz CH-Low, 1 RB



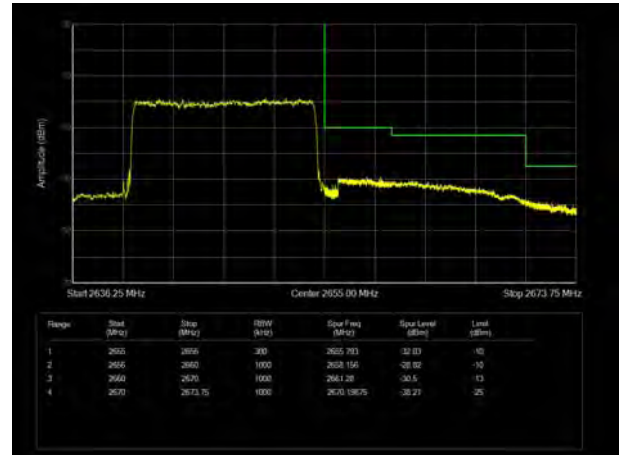
LTE Band 41 64QAM 15MHz CH-High, 1 RB



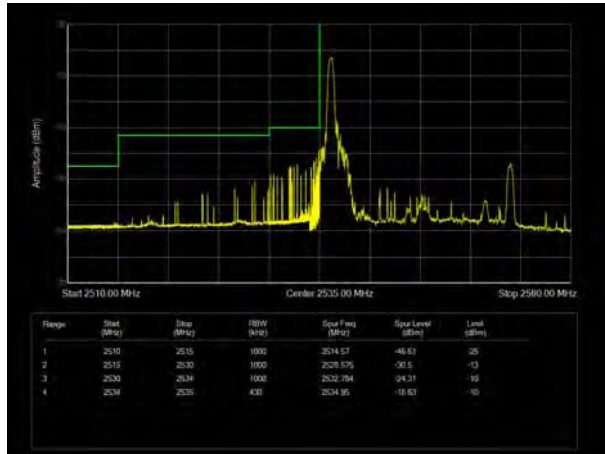
LTE Band 41 64QAM 15MHz CH-Low, 100%RB



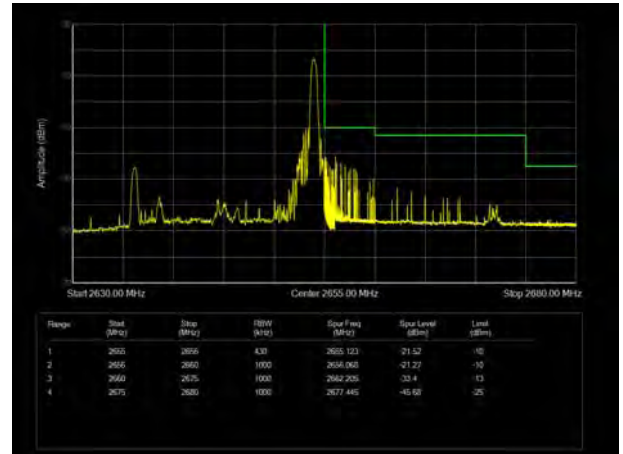
LTE Band 41 64QAM 15MHz CH-High, 100%RB



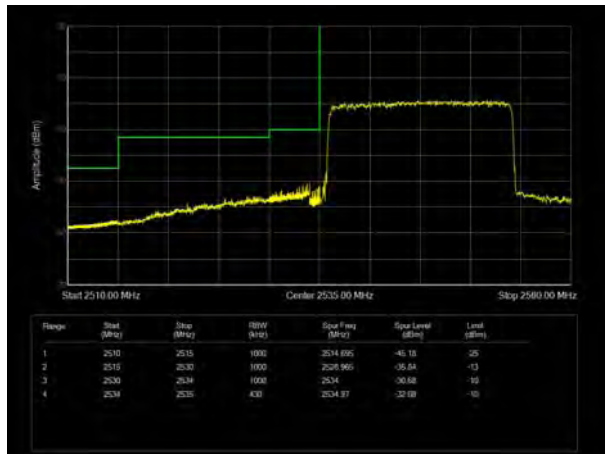
LTE Band 41 64QAM 20MHz CH-Low, 1 RB



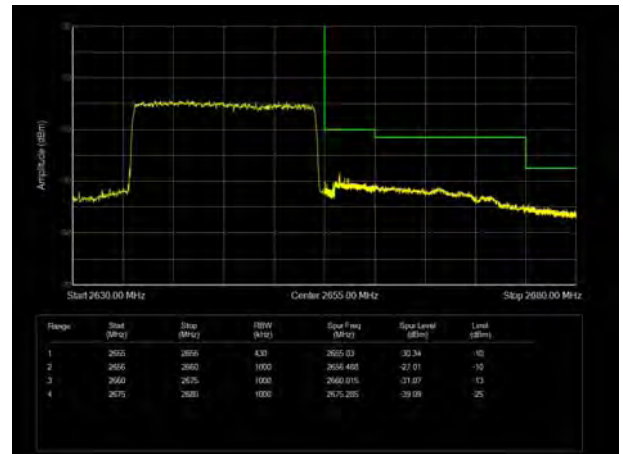
LTE Band 41 64QAM 20MHz CH-High, 1 RB



LTE Band 41 64QAM 20MHz CH-Low, 100%RB



LTE Band 41 64QAM 20MHz CH-High, 100%RB



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	25.40	22.86	2.54	≤13	PASS
	1413	1732.6	26.35	23.51	2.84	≤13	PASS
	1513	1752.6	25.13	22.56	2.57	≤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	25.35	20.47	4.88	≤13	PASS
		20175	1732.5	25.32	20.32	5.00	≤13	PASS
		20393	1754.3	25.26	20.47	4.79	≤13	PASS
	3	19965	1711.5	25.04	20.31	4.73	≤13	PASS
		20175	1732.5	25.15	20.22	4.93	≤13	PASS
		20385	1753.5	25.14	20.32	4.82	≤13	PASS
	5	19975	1712.5	25.28	20.41	4.87	≤13	PASS
		20175	1732.5	25.29	20.22	5.07	≤13	PASS
		20375	1752.5	25.28	20.34	4.94	≤13	PASS
	10	20000	1715	25.52	20.69	4.83	≤13	PASS
		20175	1732.5	25.22	20.25	4.97	≤13	PASS
		20350	1750	25.21	20.32	4.89	≤13	PASS
	15	20025	1717.5	25.59	20.37	5.22	≤13	PASS
		20175	1732.5	25.72	20.29	5.43	≤13	PASS
		20325	1747.5	25.79	20.42	5.37	≤13	PASS
	20	20050	1720	25.72	20.59	5.13	≤13	PASS
		20175	1732.5	25.31	20.15	5.16	≤13	PASS
		20300	1745	25.61	20.34	5.27	≤13	PASS
16QAM	1.4	19957	1710.7	24.83	19.37	5.46	≤13	PASS
		20175	1732.5	24.99	19.31	5.68	≤13	PASS
		20393	1754.3	25.07	19.45	5.62	≤13	PASS
	3	19965	1711.5	24.68	19.23	5.45	≤13	PASS
		20175	1732.5	24.90	19.16	5.74	≤13	PASS
		20385	1753.5	24.82	19.27	5.55	≤13	PASS
	5	19975	1712.5	24.68	19.22	5.46	≤13	PASS
		20175	1732.5	24.87	19.16	5.71	≤13	PASS
		20375	1752.5	24.80	19.23	5.57	≤13	PASS
	10	20000	1715	24.63	19.23	5.40	≤13	PASS



		20175	1732.5	24.89	19.17	5.72	≤13	PASS
		20350	1750	24.77	19.26	5.51	≤13	PASS
		20025	1717.5	24.92	19.29	5.63	≤13	PASS
	15	20175	1732.5	25.05	19.22	5.83	≤13	PASS
		20325	1747.5	25.05	19.34	5.71	≤13	PASS
		20050	1720	24.88	19.19	5.69	≤13	PASS
	20	20175	1732.5	24.91	19.09	5.82	≤13	PASS
		20300	1745	25.09	19.28	5.81	≤13	PASS
		20025	1717.5	24.81	19.16	5.65	≤13	PASS
64QAM	1.4	19957	1710.7	24.23	18.78	5.45	≤13	PASS
		20175	1732.5	24.45	18.69	5.76	≤13	PASS
		20393	1754.3	24.57	18.92	5.65	≤13	PASS
	3	19965	1711.5	24.63	19.11	5.52	≤13	PASS
		20175	1732.5	24.85	19.04	5.81	≤13	PASS
		20385	1753.5	24.72	19.07	5.65	≤13	PASS
	5	19975	1712.5	24.60	19.11	5.49	≤13	PASS
		20175	1732.5	24.89	19.04	5.85	≤13	PASS
		20375	1752.5	24.69	19.14	5.55	≤13	PASS
	10	20000	1715	24.50	19.06	5.44	≤13	PASS
		20175	1732.5	24.82	18.99	5.83	≤13	PASS
		20350	1750	24.54	18.98	5.56	≤13	PASS
	15	20025	1717.5	24.81	19.16	5.65	≤13	PASS
		20175	1732.5	24.98	19.10	5.88	≤13	PASS
		20325	1747.5	24.97	19.22	5.75	≤13	PASS
	20	20050	1720	24.77	19.05	5.72	≤13	PASS
		20175	1732.5	24.76	18.94	5.82	≤13	PASS
		20300	1745	25.02	19.13	5.89	≤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	26.08	20.46	5.62	≤13	PASS
		21100	2535	26.29	20.36	5.93	≤13	PASS
		21425	2567.5	26.10	20.45	5.65	≤13	PASS
	10	20800	2505	26.30	20.51	5.79	≤13	PASS
		21100	2535	26.29	20.39	5.90	≤13	PASS
		21400	2565	26.22	20.46	5.76	≤13	PASS
	15	20825	2507.5	26.60	20.51	6.09	≤13	PASS
		21100	2535	26.56	20.36	6.20	≤13	PASS



	20	21375	2562.5	26.47	20.39	6.08	≤13	PASS
		20850	2510	26.31	20.48	5.83	≤13	PASS
		21100	2535	26.16	20.33	5.83	≤13	PASS
		21350	2560	26.05	20.30	5.75	≤13	PASS
16QAM	5	20775	2502.5	25.96	19.53	6.43	≤13	PASS
		21100	2535	26.04	19.39	6.65	≤13	PASS
		21425	2567.5	26.02	19.51	6.51	≤13	PASS
	10	20800	2505	26.03	19.54	6.49	≤13	PASS
		21100	2535	26.14	19.45	6.69	≤13	PASS
		21400	2565	26.07	19.48	6.59	≤13	PASS
	15	20825	2507.5	26.11	19.51	6.60	≤13	PASS
		21100	2535	26.09	19.35	6.74	≤13	PASS
		21375	2562.5	26.04	19.42	6.62	≤13	PASS
	20	20850	2510	26.10	19.52	6.58	≤13	PASS
		21100	2535	25.99	19.35	6.64	≤13	PASS
		21350	2560	25.90	19.37	6.53	≤13	PASS
64QAM	5	20775	2502.5	25.25	18.78	6.47	≤13	PASS
		21100	2535	25.30	18.67	6.63	≤13	PASS
		21425	2567.5	25.28	18.77	6.51	≤13	PASS
	10	20800	2505	25.37	18.86	6.51	≤13	PASS
		21100	2535	25.37	18.72	6.65	≤13	PASS
		21400	2565	25.31	18.77	6.54	≤13	PASS
	15	20825	2507.5	25.42	18.79	6.63	≤13	PASS
		21100	2535	25.37	18.64	6.73	≤13	PASS
		21375	2562.5	25.33	18.71	6.62	≤13	PASS
	20	20850	2510	25.47	18.85	6.62	≤13	PASS
		21100	2535	25.28	18.66	6.62	≤13	PASS
		21350	2560	25.14	18.60	6.54	≤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	26.12	20.46	5.66	≤13	PASS
		23095	707.5	26.42	20.46	5.96	≤13	PASS
		23173	715.3	26.61	20.53	6.08	≤13	PASS



	3	23025	700.5	26.88	20.94	5.94	≤13	PASS
		23095	707.5	26.85	20.81	6.04	≤13	PASS
		23165	714.5	26.97	20.68	6.29	≤13	PASS
	5	23035	701.5	27.22	20.85	6.37	≤13	PASS
		23095	707.5	26.52	20.46	6.06	≤13	PASS
		23155	713.5	26.85	20.66	6.19	≤13	PASS
	10	23060	704	27.32	21.09	6.23	≤13	PASS
		23095	707.5	26.89	20.86	6.03	≤13	PASS
		23130	711	26.82	20.76	6.06	≤13	PASS
16QAM	1.4	23017	699.7	25.96	19.48	6.48	≤13	PASS
		23095	707.5	26.02	19.50	6.52	≤13	PASS
		23173	715.3	26.49	19.56	6.93	≤13	PASS
	3	23025	700.5	26.63	19.91	6.72	≤13	PASS
		23095	707.5	26.38	19.66	6.72	≤13	PASS
		23165	714.5	26.58	19.63	6.95	≤13	PASS
	5	23035	701.5	26.39	19.56	6.83	≤13	PASS
		23095	707.5	26.13	19.47	6.66	≤13	PASS
		23155	713.5	26.49	19.66	6.83	≤13	PASS
	10	23060	704	27.03	20.08	6.95	≤13	PASS
		23095	707.5	26.41	19.70	6.71	≤13	PASS
		23130	711	26.36	19.63	6.73	≤13	PASS
64QAM	1.4	23017	699.7	25.07	18.63	6.44	≤13	PASS
		23095	707.5	25.24	18.65	6.59	≤13	PASS
		23173	715.3	25.46	18.74	6.72	≤13	PASS
	3	23025	700.5	25.40	18.67	6.73	≤13	PASS
		23095	707.5	25.35	18.67	6.68	≤13	PASS
		23165	714.5	25.62	18.72	6.90	≤13	PASS
	5	23035	701.5	25.62	18.74	6.88	≤13	PASS
		23095	707.5	25.27	18.64	6.63	≤13	PASS
		23155	713.5	25.64	18.82	6.82	≤13	PASS
	10	23060	704	25.64	18.79	6.85	≤13	PASS
		23095	707.5	25.24	18.59	6.65	≤13	PASS
		23130	711	25.38	18.71	6.67	≤13	PASS



LTE Band 17								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	23755	706.5	27.29	20.94	6.35	≤13	PASS
		23790	710	26.94	20.94	6.00	≤13	PASS
		23825	713.5	27.40	21.13	6.27	≤13	PASS
	10	23780	709	26.81	20.88	5.93	≤13	PASS
		23790	710	26.99	20.98	6.01	≤13	PASS
		23800	711	27.13	21.05	6.08	≤13	PASS
16QAM	5	23755	706.5	26.95	19.97	6.98	≤13	PASS
		23790	710	26.56	19.96	6.60	≤13	PASS
		23825	713.5	27.09	20.15	6.94	≤13	PASS
	10	23780	709	26.54	19.90	6.64	≤13	PASS
		23790	710	26.74	19.99	6.75	≤13	PASS
		23800	711	26.81	20.05	6.76	≤13	PASS
64QAM	5	23755	706.5	25.23	18.56	6.67	≤13	PASS
		23790	710	24.98	18.49	6.49	≤13	PASS
		23825	713.5	25.44	18.60	6.84	≤13	PASS
	10	23780	709	25.35	18.65	6.70	≤13	PASS
		23790	710	25.19	18.51	6.68	≤13	PASS
		23800	711	25.19	18.51	6.68	≤13	PASS

LTE Band 38								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	37775	2572.5	26.32	16.89	9.43	≤13	PASS
		38000	2595	26.27	16.84	9.43	≤13	PASS
		38225	2617.5	26.47	16.65	9.82	≤13	PASS
	10	37800	2575	26.39	17.20	9.19	≤13	PASS
		38000	2595	26.31	17.35	8.96	≤13	PASS
		38200	2615	26.53	17.12	9.41	≤13	PASS
	15	37825	2577.5	26.90	18.59	8.31	≤13	PASS
		38000	2595	26.72	17.44	9.28	≤13	PASS
		38175	2612.5	26.86	17.63	9.23	≤13	PASS
	20	37850	2580	26.26	16.57	9.69	≤13	PASS
		38000	2595	26.29	17.11	9.18	≤13	PASS
		38150	2610	26.45	17.15	9.30	≤13	PASS
16QAM	5	37775	2572.5	26.00	16.51	9.49	≤13	PASS



		38000	2595	25.90	15.49	10.41	≤13	PASS
		38225	2617.5	26.30	16.58	9.72	≤13	PASS
		37800	2575	26.19	17.08	9.11	≤13	PASS
	10	38000	2595	25.92	14.96	10.96	≤13	PASS
		38200	2615	26.22	15.47	10.75	≤13	PASS
		37825	2577.5	26.34	16.89	9.45	≤13	PASS
	15	38000	2595	26.14	15.70	10.44	≤13	PASS
		38175	2612.5	25.43	15.69	9.74	≤13	PASS
		37850	2580	26.18	17.08	9.10	≤13	PASS
	20	38000	2595	25.99	15.86	10.13	≤13	PASS
		38150	2610	26.12	15.89	10.23	≤13	PASS
		37775	2572.5	25.09	14.67	10.42	≤13	PASS
64QAM	5	38000	2595	24.98	14.15	10.83	≤13	PASS
		38225	2617.5	25.46	14.47	10.99	≤13	PASS
		37800	2575	25.50	16.49	9.01	≤13	PASS
	10	38000	2595	25.16	15.42	9.74	≤13	PASS
		38200	2615	25.54	15.10	10.44	≤13	PASS
		37825	2577.5	25.57	15.82	9.75	≤13	PASS
	15	38000	2595	25.41	15.96	9.45	≤13	PASS
		38175	2612.5	25.63	14.96	10.67	≤13	PASS
		37850	2580	25.49	16.48	9.01	≤13	PASS
	20	38000	2595	25.28	15.31	9.97	≤13	PASS
		38150	2610	25.29	14.60	10.69	≤13	PASS
		37775	2572.5	25.09	14.67	10.42	≤13	PASS

LTE Band 41								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	40065	2537.5	26.31	15.75	10.56	≤13	PASS
		40640	2595	26.40	17.58	8.82	≤13	PASS
		41215	2652.5	26.68	17.48	9.20	≤13	PASS
	10	40090	2540	26.47	17.53	8.94	≤13	PASS
		40640	2595	26.44	17.26	9.18	≤13	PASS
		41190	2650	26.64	17.31	9.33	≤13	PASS
	15	40115	2542.5	26.76	17.15	9.61	≤13	PASS
		40640	2595	26.76	17.03	9.73	≤13	PASS



	20	41165	2647.5	27.04	17.44	9.60	≤13	PASS
		40140	2545	26.46	18.10	8.36	≤13	PASS
		40640	2595	26.28	15.91	10.37	≤13	PASS
		41140	2645	26.65	17.32	9.33	≤13	PASS
16QAM	5	40065	2537.5	26.00	15.60	10.40	≤13	PASS
		40640	2595	26.00	15.25	10.75	≤13	PASS
		41215	2652.5	26.33	16.89	9.44	≤13	PASS
	10	40090	2540	26.04	15.67	10.37	≤13	PASS
		40640	2595	26.13	15.80	10.33	≤13	PASS
		41190	2650	26.48	16.99	9.49	≤13	PASS
	15	40115	2542.5	26.28	16.07	10.21	≤13	PASS
		40640	2595	26.34	15.99	10.35	≤13	PASS
		41165	2647.5	26.65	17.16	9.49	≤13	PASS
	20	40140	2545	26.28	17.44	8.84	≤13	PASS
		40640	2595	26.04	15.58	10.46	≤13	PASS
		41140	2645	26.27	15.91	10.36	≤13	PASS
64QAM	5	40065	2537.5	25.45	16.11	9.34	≤13	PASS
		40640	2595	25.41	15.74	9.67	≤13	PASS
		41215	2652.5	25.54	15.61	9.93	≤13	PASS
	10	40090	2540	25.33	14.82	10.51	≤13	PASS
		40640	2595	25.51	16.21	9.30	≤13	PASS
		41190	2650	25.88	16.84	9.04	≤13	PASS
	15	40115	2542.5	25.61	15.59	10.02	≤13	PASS
		40640	2595	25.72	16.25	9.47	≤13	PASS
		41165	2647.5	25.71	14.16	11.55	≤13	PASS
	20	40140	2545	25.30	14.83	10.47	≤13	PASS
		40640	2595	25.37	14.88	10.49	≤13	PASS
		41140	2645	25.65	15.79	9.86	≤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	BPSK	QPSK	BPSK	QPSK	
Normal (25°C)	Normal	14.23	5.64	0.00821	0.00326	PASS
Extreme (45°C)		11.71	7.08	0.00676	0.00409	PASS
Extreme (40°C)		7.26	17.48	0.00419	0.01009	PASS
Extreme (30°C)		5.49	8.34	0.00317	0.00481	PASS
Extreme (20°C)		10.76	4.13	0.00621	0.00238	PASS
Extreme (10°C)		7.12	2.27	0.00411	0.00131	PASS
Extreme (0°C)		15.24	1.66	0.00879	0.00096	PASS
Extreme (-10°C)		9.37	9.69	0.00541	0.00559	PASS
25°C	LV	17.75	4.60	0.01025	0.00265	PASS
	HV	16.39	3.54	0.00946	0.00204	PASS

LTE Band 4								
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.73	15.83	7.95	0.00446	0.00914	0.00459	PASS
Extreme (45°C)		16.34	3.34	17.94	0.00943	0.00193	0.01035	PASS
Extreme (40°C)		4.86	5.69	6.35	0.00281	0.00328	0.00367	PASS
Extreme (30°C)		4.22	16.40	17.71	0.00244	0.00947	0.01022	PASS
Extreme (20°C)		3.31	15.51	6.23	0.00191	0.00895	0.00359	PASS
Extreme (10°C)		2.34	17.38	16.03	0.00135	0.01003	0.00926	PASS
Extreme (0°C)		11.17	4.82	13.96	0.00645	0.00278	0.00806	PASS
Extreme (-10°C)		16.96	5.49	7.49	0.00979	0.00317	0.00432	PASS
25°C	LV	7.31	8.93	15.53	0.00422	0.00515	0.00896	PASS
	HV	15.56	10.49	7.52	0.00898	0.00606	0.00434	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	13.74	9.12	12.24	0.00793	0.00526	0.00707	PASS
Extreme (45°C)		15.80	9.03	15.49	0.00912	0.00521	0.00894	PASS
Extreme (40°C)		1.70	12.46	9.15	0.00098	0.00719	0.00528	PASS
Extreme (30°C)		13.90	1.97	3.45	0.00802	0.00114	0.00199	PASS



Extreme (20°C)		2.17	8.26	16.32	0.00125	0.00477	0.00942	PASS
Extreme (10°C)		17.02	10.88	12.16	0.00983	0.00628	0.00702	PASS
Extreme (0°C)		10.56	2.83	16.36	0.00610	0.00164	0.00944	PASS
Extreme (-10°C)		2.70	14.96	11.82	0.00156	0.00864	0.00682	PASS
25°C	LV	4.88	7.15	9.75	0.00282	0.00413	0.00563	PASS
	HV	8.84	4.81	10.82	0.00510	0.00278	0.00624	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.94	14.06	15.51	0.00285	0.00812	0.00895	PASS
Extreme (45°C)		4.40	3.87	7.48	0.00254	0.00223	0.00432	PASS
Extreme (40°C)		5.74	10.87	3.88	0.00331	0.00627	0.00224	PASS
Extreme (30°C)		2.27	7.54	14.23	0.00131	0.00435	0.00822	PASS
Extreme (20°C)		15.53	12.30	14.99	0.00896	0.00710	0.00865	PASS
Extreme (10°C)		15.03	2.54	15.32	0.00867	0.00146	0.00884	PASS
Extreme (0°C)		6.92	13.54	8.87	0.00399	0.00781	0.00512	PASS
Extreme (-10°C)		11.87	1.99	13.11	0.00685	0.00115	0.00757	PASS
25°C	LV	6.94	12.72	11.51	0.00400	0.00734	0.00664	PASS
	HV	4.77	7.32	16.09	0.00275	0.00422	0.00929	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (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	11.80	14.83	1.02	0.00681	0.00856	0.00059	PASS
Extreme (45°C)		11.24	3.22	12.57	0.00649	0.00186	0.00726	PASS
Extreme (40°C)		10.37	2.92	9.86	0.00599	0.00169	0.00569	PASS
Extreme (30°C)		5.89	14.00	16.09	0.00340	0.00808	0.00929	PASS
Extreme (20°C)		3.76	15.91	10.99	0.00217	0.00918	0.00634	PASS
Extreme (10°C)		5.96	13.08	11.00	0.00344	0.00755	0.00635	PASS
Extreme (0°C)		4.55	11.39	13.34	0.00262	0.00658	0.00770	PASS
Extreme (-10°C)		15.94	13.56	5.20	0.00920	0.00783	0.00300	PASS
25°C	LV	12.92	6.32	5.15	0.00746	0.00365	0.00297	PASS
	HV	1.99	16.84	17.62	0.00115	0.00972	0.01017	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.05	16.15	14.22	0.00234	0.00932	0.00821	PASS
Extreme (45°C)		15.26	17.78	10.09	0.00881	0.01026	0.00582	PASS
Extreme (40°C)		11.32	9.76	15.01	0.00653	0.00564	0.00866	PASS
Extreme (30°C)		8.77	4.38	10.10	0.00506	0.00253	0.00583	PASS
Extreme (20°C)		13.80	6.00	10.39	0.00797	0.00346	0.00600	PASS



Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Extreme (10°C)		1.27	9.44	12.41	0.00073	0.00545	0.00716	PASS
Extreme (0°C)		6.15	12.14	17.60	0.00355	0.00701	0.01016	PASS
Extreme (-10°C)		10.23	4.76	12.12	0.00591	0.00275	0.00700	PASS
25°C	LV	5.53	10.48	2.48	0.00319	0.00605	0.00143	PASS
	HV	15.89	3.76	6.99	0.00917	0.00217	0.00404	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.03	15.46	7.66	0.00983	0.00892	0.00442	PASS
Extreme (45°C)		15.89	1.38	7.58	0.00917	0.00080	0.00437	PASS
Extreme (40°C)		9.52	9.33	7.36	0.00549	0.00539	0.00425	PASS
Extreme (30°C)		10.84	15.44	13.70	0.00626	0.00891	0.00791	PASS
Extreme (20°C)		16.18	15.88	10.59	0.00934	0.00917	0.00611	PASS
Extreme (10°C)		15.65	14.54	8.82	0.00903	0.00839	0.00509	PASS
Extreme (0°C)		17.37	6.04	13.96	0.01003	0.00349	0.00806	PASS
Extreme (-10°C)		1.39	2.22	10.21	0.00080	0.00128	0.00589	PASS
25°C		LV	3.86	15.84	15.09	0.00223	0.00914	0.00871
	HV	10.25	12.81	11.91	0.00592	0.00739	0.00688	PASS

LTE Band 7								
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.78	14.70	12.19	0.00346	0.00580	0.00481	PASS
Extreme (45°C)		3.28	8.42	14.08	0.00129	0.00332	0.00556	PASS
Extreme (40°C)		16.10	6.71	13.41	0.00635	0.00265	0.00529	PASS
Extreme (30°C)		14.37	15.29	15.06	0.00567	0.00603	0.00594	PASS
Extreme (20°C)		5.94	7.17	12.75	0.00234	0.00283	0.00503	PASS
Extreme (10°C)		12.79	11.73	2.25	0.00505	0.00463	0.00089	PASS
Extreme (0°C)		11.45	9.24	9.66	0.00452	0.00365	0.00381	PASS
Extreme (-10°C)		7.30	8.75	8.05	0.00288	0.00345	0.00318	PASS
25°C		LV	4.64	11.46	15.27	0.00183	0.00452	0.00602
	HV	6.78	8.49	12.04	0.00267	0.00335	0.00475	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (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	1.96	13.72	3.74	0.00077	0.00541	0.00147	PASS
Extreme (45°C)		12.79	4.01	12.05	0.00505	0.00158	0.00475	PASS



Extreme (40°C)		12.51	12.21	13.23	0.00494	0.00482	0.00522	PASS
Extreme (30°C)		3.53	2.71	4.63	0.00139	0.00107	0.00183	PASS
Extreme (20°C)		16.85	7.56	7.64	0.00665	0.00298	0.00302	PASS
Extreme (10°C)		11.70	4.85	16.12	0.00461	0.00191	0.00636	PASS
Extreme (0°C)		16.30	13.17	3.02	0.00643	0.00520	0.00119	PASS
Extreme (-10°C)		8.54	11.14	2.71	0.00337	0.00439	0.00107	PASS
25°C	LV	16.37	7.65	3.81	0.00646	0.00302	0.00150	PASS
	HV	4.69	13.27	4.70	0.00185	0.00523	0.00185	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	10.88	17.77	13.12	0.00429	0.00701	0.00517	PASS
Extreme (45°C)		13.15	7.46	13.18	0.00519	0.00294	0.00520	PASS
Extreme (40°C)		15.42	15.22	12.84	0.00608	0.00600	0.00506	PASS
Extreme (30°C)		1.63	5.44	17.02	0.00064	0.00215	0.00671	PASS
Extreme (20°C)		1.28	8.02	15.76	0.00051	0.00317	0.00622	PASS
Extreme (10°C)		13.54	7.02	2.88	0.00534	0.00277	0.00114	PASS
Extreme (0°C)		1.16	13.52	9.52	0.00046	0.00533	0.00376	PASS
Extreme (-10°C)		15.05	7.98	14.07	0.00594	0.00315	0.00555	PASS
25°C	LV	8.30	9.15	17.50	0.00327	0.00361	0.00690	PASS
	HV	2.69	9.80	6.75	0.00106	0.00386	0.00266	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	15.35	11.51	16.62	0.00606	0.00454	0.00656	PASS
Extreme (45°C)		11.13	2.30	6.89	0.00439	0.00091	0.00272	PASS
Extreme (40°C)		11.70	7.49	1.53	0.00462	0.00295	0.00060	PASS
Extreme (30°C)		12.89	6.72	16.53	0.00508	0.00265	0.00652	PASS
Extreme (20°C)		16.20	3.60	12.18	0.00639	0.00142	0.00480	PASS
Extreme (10°C)		10.06	13.17	14.74	0.00397	0.00520	0.00581	PASS
Extreme (0°C)		1.47	17.81	15.70	0.00058	0.00703	0.00619	PASS
Extreme (-10°C)		5.06	6.85	2.98	0.00200	0.00270	0.00117	PASS
25°C	LV	2.82	6.41	4.38	0.00111	0.00253	0.00173	PASS
	HV	15.05	12.97	1.74	0.00594	0.00512	0.00069	PASS



LTE Band 12								
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	15.31	10.00	6.17	0.02075	0.01356	0.00837	PASS
Extreme (45°C)		14.17	5.52	6.66	0.01922	0.00748	0.00903	PASS
Extreme (40°C)		8.93	17.78	5.19	0.01211	0.02411	0.00704	PASS
Extreme (30°C)		8.88	9.67	2.97	0.01204	0.01311	0.00403	PASS
Extreme (20°C)		12.46	4.67	17.01	0.01690	0.00633	0.02306	PASS
Extreme (10°C)		7.55	4.44	8.80	0.01023	0.00602	0.01193	PASS
Extreme (0°C)		3.69	6.59	9.59	0.00501	0.00893	0.01301	PASS
Extreme (-10°C)		9.03	12.21	11.47	0.01224	0.01656	0.01555	PASS
25°C	LV	12.07	12.40	1.95	0.01636	0.01681	0.00264	PASS
	HV	5.13	14.12	1.95	0.00696	0.01914	0.00265	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	10.15	17.08	9.17	0.01377	0.02316	0.01243	PASS
Extreme (45°C)		7.40	1.19	2.96	0.01003	0.00161	0.00401	PASS
Extreme (40°C)		14.39	16.63	13.85	0.01951	0.02255	0.01879	PASS
Extreme (30°C)		6.00	12.35	3.76	0.00813	0.01675	0.00509	PASS
Extreme (20°C)		15.55	14.27	11.20	0.02109	0.01934	0.01519	PASS
Extreme (10°C)		2.56	14.63	4.85	0.00348	0.01984	0.00657	PASS
Extreme (0°C)		14.26	8.12	8.86	0.01933	0.01101	0.01201	PASS
Extreme (-10°C)		16.87	14.74	10.95	0.02288	0.01999	0.01484	PASS
25°C	LV	14.55	16.00	6.56	0.01972	0.02169	0.00890	PASS
	HV	1.27	3.29	1.30	0.00172	0.00447	0.00177	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.13	10.10	9.96	0.00561	0.01369	0.01350	PASS
Extreme (45°C)		1.19	4.22	3.80	0.00161	0.00572	0.00515	PASS
Extreme (40°C)		1.04	16.95	10.04	0.00141	0.02298	0.01361	PASS
Extreme (30°C)		4.80	10.12	2.13	0.00650	0.01372	0.00289	PASS
Extreme (20°C)		11.40	13.42	13.99	0.01546	0.01819	0.01897	PASS
Extreme (10°C)		6.89	13.05	14.48	0.00935	0.01769	0.01964	PASS
Extreme (0°C)		11.86	14.32	17.11	0.01608	0.01941	0.02320	PASS



Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Extreme (-10°C)		12.41	8.02	14.14	0.01683	0.01088	0.01917	PASS
25°C	LV	15.01	2.21	9.12	0.02036	0.00299	0.01236	PASS
	HV	5.84	11.50	15.88	0.00792	0.01560	0.02154	PASS
Normal (25°C)	Normal	14.12	1.52	15.75	0.01915	0.00205	0.02136	PASS
Extreme (45°C)		15.84	12.84	7.48	0.02148	0.01741	0.01014	PASS
Extreme (40°C)		10.09	4.12	11.55	0.01368	0.00558	0.01566	PASS
Extreme (30°C)		17.37	8.03	17.38	0.02355	0.01088	0.02356	PASS
Extreme (20°C)		6.44	16.46	2.89	0.00873	0.02232	0.00392	PASS
Extreme (10°C)		9.21	17.51	15.78	0.01248	0.02374	0.02139	PASS
Extreme (0°C)		14.43	9.66	13.50	0.01957	0.01310	0.01830	PASS
Extreme (-10°C)		9.64	5.51	8.79	0.01307	0.00746	0.01192	PASS
25°C		LV	16.74	16.91	7.34	0.02270	0.02293	0.00995
	HV	11.12	9.01	14.57	0.01508	0.01221	0.01976	PASS

LTE Band 17								
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.68	4.08	16.85	0.00632	0.00551	0.02278	PASS
Extreme (45°C)		2.12	5.13	4.64	0.00287	0.00694	0.00627	PASS
Extreme (40°C)		13.80	13.77	15.10	0.01864	0.01861	0.02041	PASS
Extreme (30°C)		7.32	14.90	2.81	0.00989	0.02013	0.00379	PASS
Extreme (20°C)		11.17	5.55	8.45	0.01509	0.00751	0.01143	PASS
Extreme (10°C)		6.16	4.70	9.21	0.00833	0.00635	0.01244	PASS
Extreme (0°C)		1.31	7.83	17.55	0.00177	0.01058	0.02372	PASS
Extreme (-10°C)		17.14	17.58	4.68	0.02316	0.02375	0.00632	PASS
25°C		LV	14.79	10.26	16.14	0.01999	0.01386	0.02182
	HV	17.71	1.69	7.48	0.02393	0.00228	0.01011	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (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	15.59	7.14	3.32	0.02107	0.00965	0.00449	PASS
Extreme (45°C)		3.68	14.22	7.21	0.00498	0.01921	0.00974	PASS
Extreme (40°C)		15.20	9.10	15.09	0.02054	0.01230	0.02040	PASS
Extreme (30°C)		5.66	2.00	1.64	0.00765	0.00271	0.00222	PASS
Extreme (20°C)		11.20	9.75	16.32	0.01513	0.01317	0.02206	PASS



Extreme (10°C)		5.23	10.17	9.86	0.00706	0.01374	0.01333	PASS
Extreme (0°C)		17.18	17.88	11.65	0.02322	0.02416	0.01575	PASS
Extreme (-10°C)		12.57	11.47	17.76	0.01699	0.01550	0.02399	PASS
25°C	LV	6.68	2.24	5.42	0.00902	0.00303	0.00733	PASS
	HV	10.55	4.62	7.76	0.01426	0.00625	0.01049	PASS

LTE Band 38								
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	2.54	11.93	17.85	0.00098	0.00460	0.00688	PASS
Extreme (45°C)		12.91	10.45	5.42	0.00498	0.00403	0.00209	PASS
Extreme (40°C)		12.13	9.42	5.12	0.00467	0.00363	0.00197	PASS
Extreme (30°C)		2.32	11.97	15.02	0.00090	0.00461	0.00579	PASS
Extreme (20°C)		5.57	16.55	7.86	0.00215	0.00638	0.00303	PASS
Extreme (10°C)		2.68	11.07	15.93	0.00103	0.00427	0.00614	PASS
Extreme (0°C)		12.64	2.98	8.41	0.00487	0.00115	0.00324	PASS
Extreme (-10°C)		9.37	15.82	1.85	0.00361	0.00610	0.00071	PASS
25°C	LV	4.55	5.68	11.08	0.00175	0.00219	0.00427	PASS
	HV	4.26	1.26	13.78	0.00164	0.00049	0.00531	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (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	14.97	8.45	7.69	0.00577	0.00326	0.00296	PASS
Extreme (45°C)		2.76	15.66	6.13	0.00106	0.00603	0.00236	PASS
Extreme (40°C)		13.00	17.49	16.44	0.00501	0.00674	0.00633	PASS
Extreme (30°C)		6.65	11.72	1.05	0.00256	0.00452	0.00040	PASS
Extreme (20°C)		17.23	8.88	2.84	0.00664	0.00342	0.00109	PASS
Extreme (10°C)		2.27	4.44	9.36	0.00087	0.00171	0.00361	PASS
Extreme (0°C)		1.27	1.76	14.00	0.00049	0.00068	0.00539	PASS
Extreme (-10°C)		11.44	8.40	8.43	0.00441	0.00324	0.00325	PASS
25°C	LV	8.77	2.30	17.50	0.00338	0.00089	0.00675	PASS
	HV	11.27	4.69	16.88	0.00434	0.00181	0.00651	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.59	7.45	3.81	0.00292	0.00287	0.00147	PASS
Extreme (45°C)		8.89	10.93	3.14	0.00343	0.00421	0.00121	PASS
Extreme (40°C)		13.51	4.63	3.92	0.00520	0.00178	0.00151	PASS
Extreme (30°C)		10.64	9.38	7.10	0.00410	0.00362	0.00274	PASS



Extreme (20°C)		7.09	9.21	17.39	0.00273	0.00355	0.00670	PASS
Extreme (10°C)		17.42	7.00	16.13	0.00671	0.00270	0.00621	PASS
Extreme (0°C)		13.38	4.50	17.65	0.00516	0.00173	0.00680	PASS
Extreme (-10°C)		9.86	1.86	11.66	0.00380	0.00072	0.00450	PASS
25°C	LV	14.11	12.24	4.30	0.00544	0.00472	0.00166	PASS
	HV	7.68	16.48	8.17	0.00296	0.00635	0.00315	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	6.58	9.11	4.84	0.00254	0.00351	0.00186	PASS
Extreme (45°C)		4.29	1.34	15.56	0.00165	0.00052	0.00599	PASS
Extreme (40°C)		9.99	10.27	12.71	0.00385	0.00396	0.00490	PASS
Extreme (30°C)		9.07	9.37	7.76	0.00349	0.00361	0.00299	PASS
Extreme (20°C)		11.87	10.11	13.87	0.00457	0.00390	0.00535	PASS
Extreme (10°C)		9.81	2.20	9.43	0.00378	0.00085	0.00363	PASS
Extreme (0°C)		11.04	14.79	14.13	0.00425	0.00570	0.00544	PASS
Extreme (-10°C)		2.25	10.59	11.45	0.00087	0.00408	0.00441	PASS
25°C	LV	12.67	11.93	3.94	0.00488	0.00460	0.00152	PASS
	HV	7.28	14.63	12.04	0.00281	0.00564	0.00464	PASS

LTE Band 41								
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.42	17.08	11.79	0.00363	0.00659	0.00455	PASS
Extreme (45°C)		8.31	1.05	6.03	0.00321	0.00041	0.00233	PASS
Extreme (40°C)		15.05	6.53	2.43	0.00580	0.00252	0.00094	PASS
Extreme (30°C)		16.34	7.91	6.72	0.00630	0.00305	0.00259	PASS
Extreme (20°C)		14.88	15.58	16.50	0.00574	0.00601	0.00636	PASS
Extreme (10°C)		12.71	1.29	2.42	0.00490	0.00050	0.00093	PASS
Extreme (0°C)		12.64	2.66	17.08	0.00488	0.00103	0.00659	PASS
Extreme (-10°C)		4.47	7.45	17.45	0.00172	0.00287	0.00673	PASS
25°C	LV	16.79	17.25	14.60	0.00647	0.00665	0.00563	PASS
	HV	14.53	10.25	12.79	0.00561	0.00395	0.00493	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (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	16.55	8.89	10.64	0.00638	0.00343	0.00410	PASS
Extreme (45°C)		12.33	7.64	16.59	0.00476	0.00295	0.00640	PASS
Extreme (40°C)		16.81	4.03	13.39	0.00648	0.00155	0.00516	PASS



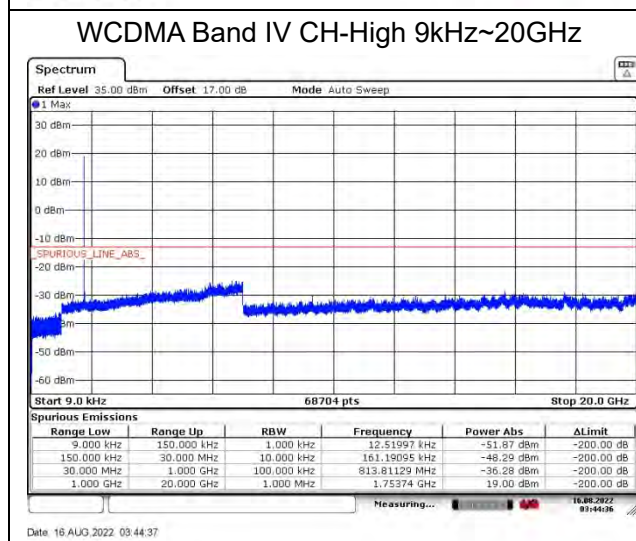
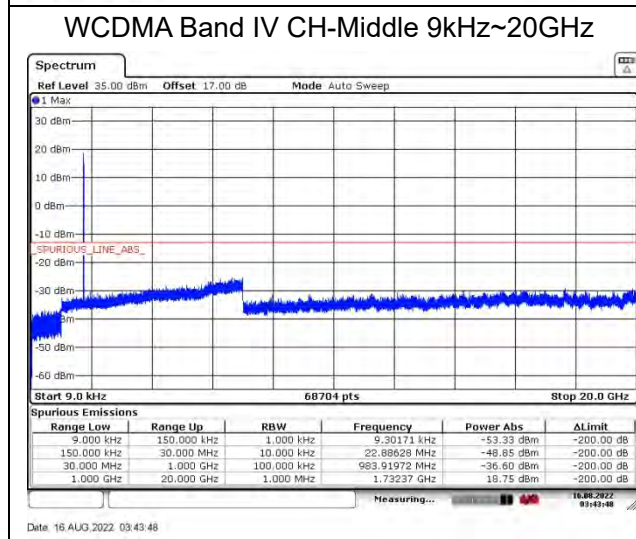
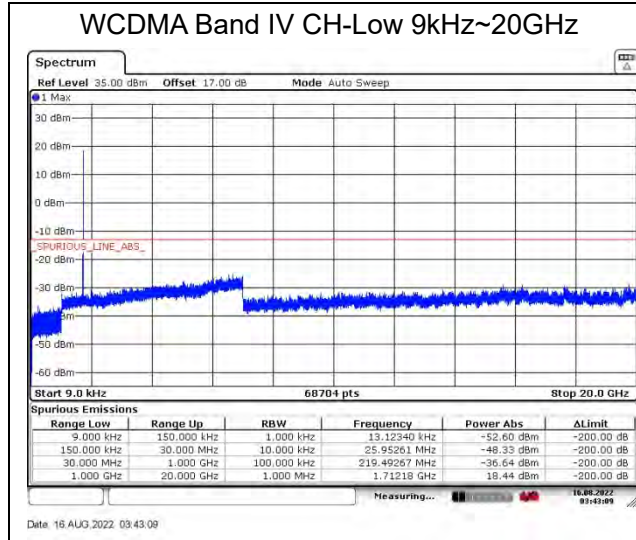
Extreme (30°C)		15.99	13.42	10.44	0.00617	0.00518	0.00403	PASS
Extreme (20°C)		9.79	2.36	4.60	0.00378	0.00091	0.00177	PASS
Extreme (10°C)		4.34	4.05	4.62	0.00167	0.00156	0.00178	PASS
Extreme (0°C)		8.52	4.49	15.97	0.00328	0.00173	0.00616	PASS
Extreme (-10°C)		10.18	16.71	17.87	0.00392	0.00645	0.00689	PASS
25°C	LV	17.68	14.52	7.00	0.00682	0.00560	0.00270	PASS
	HV	16.24	2.26	4.25	0.00626	0.00087	0.00164	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	14.69	8.05	5.79	0.00567	0.00311	0.00223	PASS
Extreme (45°C)		10.06	10.55	12.59	0.00388	0.00407	0.00486	PASS
Extreme (40°C)		10.61	9.55	8.96	0.00409	0.00368	0.00345	PASS
Extreme (30°C)		4.58	9.06	5.90	0.00177	0.00350	0.00227	PASS
Extreme (20°C)		16.91	15.07	9.43	0.00652	0.00581	0.00364	PASS
Extreme (10°C)		17.27	1.15	6.73	0.00666	0.00045	0.00259	PASS
Extreme (0°C)		13.60	8.32	12.51	0.00525	0.00321	0.00482	PASS
Extreme (-10°C)		13.97	8.91	12.15	0.00539	0.00344	0.00469	PASS
25°C	LV	11.86	2.99	11.36	0.00457	0.00115	0.00438	PASS
	HV	10.53	3.13	13.79	0.00406	0.00121	0.00532	PASS
Condition		Freq.Err or (Hz)	Freq.Err or (Hz)	Freq.Err or (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.72	14.25	1.49	0.00298	0.00550	0.00057	PASS
Extreme (45°C)		17.37	13.85	11.75	0.00670	0.00534	0.00453	PASS
Extreme (40°C)		12.18	7.12	5.47	0.00470	0.00274	0.00211	PASS
Extreme (30°C)		10.78	3.78	4.46	0.00416	0.00146	0.00172	PASS
Extreme (20°C)		9.60	7.00	6.12	0.00370	0.00270	0.00236	PASS
Extreme (10°C)		14.73	1.44	11.42	0.00568	0.00056	0.00441	PASS
Extreme (0°C)		16.98	14.57	1.37	0.00655	0.00562	0.00053	PASS
Extreme (-10°C)		7.64	2.59	3.66	0.00295	0.00100	0.00141	PASS
25°C	LV	16.53	7.44	1.85	0.00638	0.00287	0.00071	PASS
	HV	3.02	10.38	14.16	0.00117	0.00400	0.00546	PASS



6.6 Spurious Emissions at Antenna Terminals

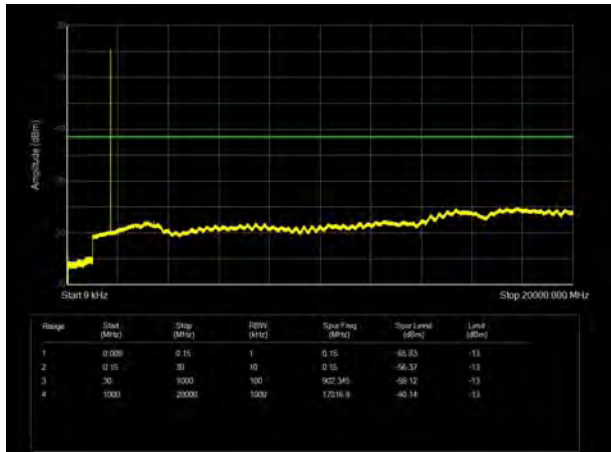
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

The signal beyond the limit is carrier.

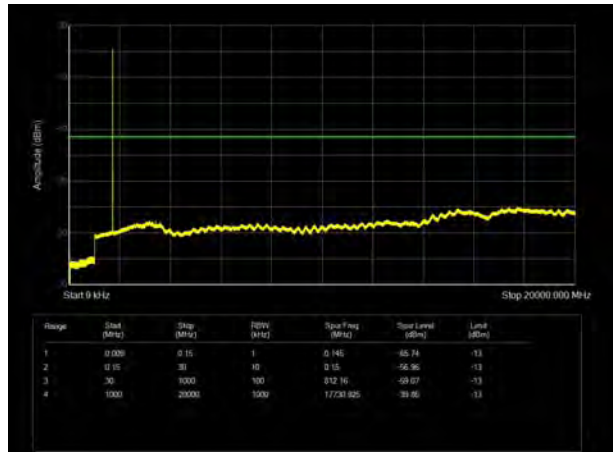




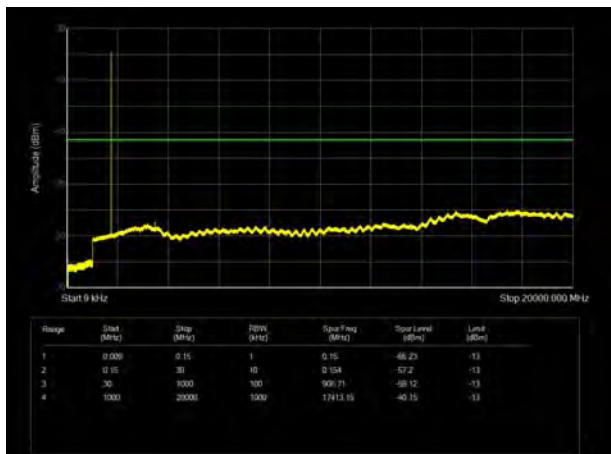
LTE Band 4 1.4MHz CH-Low 9kHz~20GHz



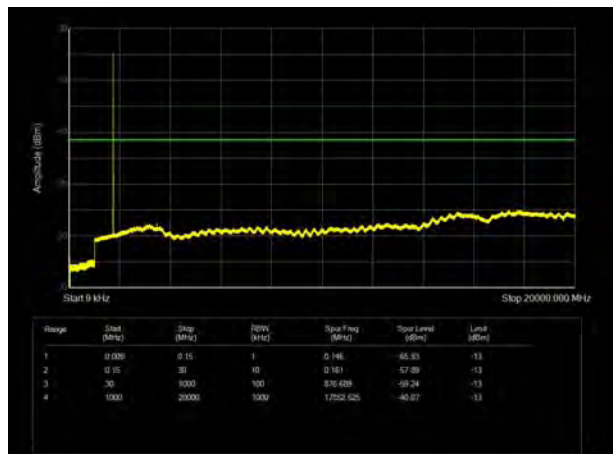
LTE Band 4 3MHz CH- Low 9kHz~20GHz



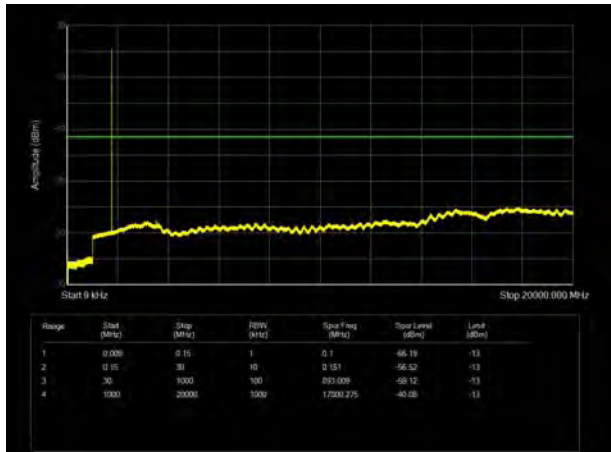
LTE Band 4 1.4MHz CH- Middle 9kHz~20GHz



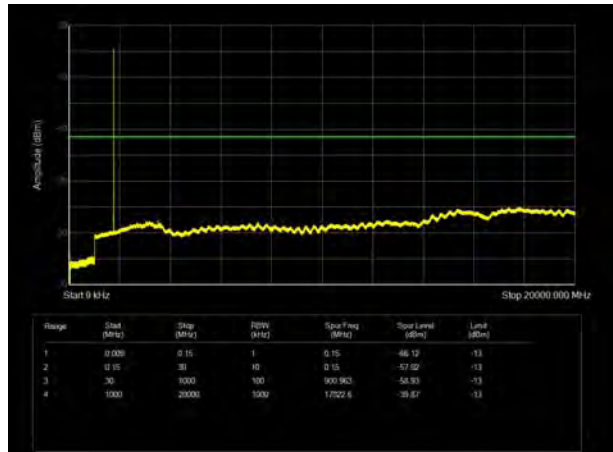
LTE Band 4 3MHz CH- Middle 9kHz~20GHz



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

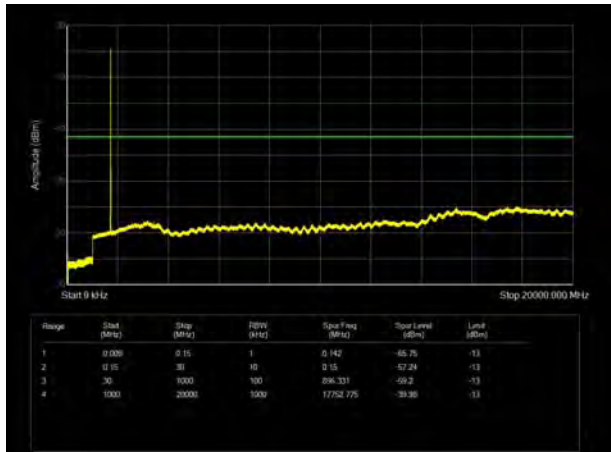


LTE Band 4 3MHz CH-High 9kHz~20GHz

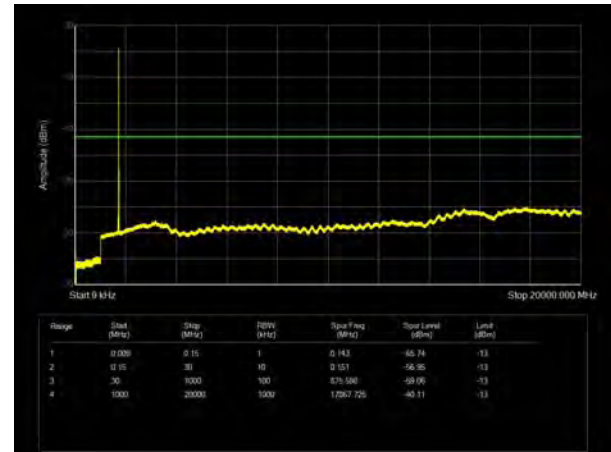




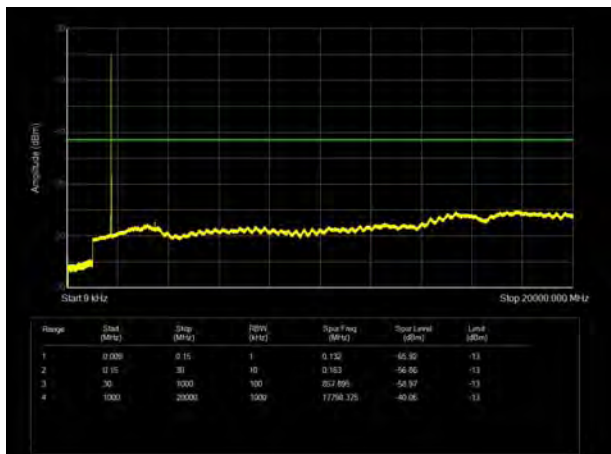
LTE Band 4 5MHz CH- Low 9kHz~20GHz



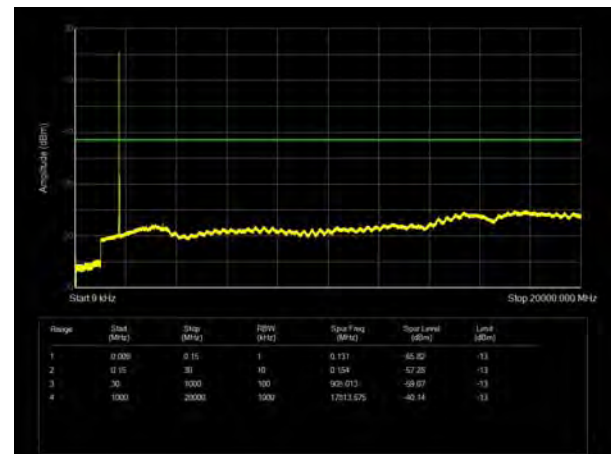
LTE Band 4 10MHz CH-Low 9kHz~20GHz



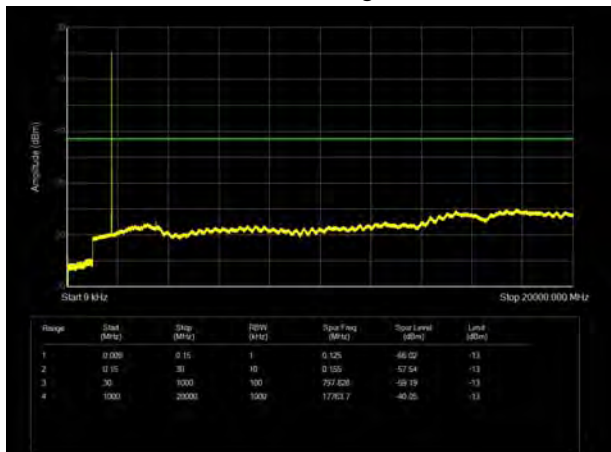
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



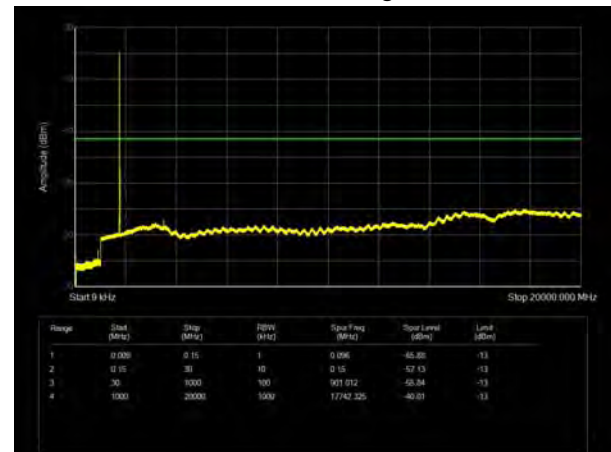
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



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

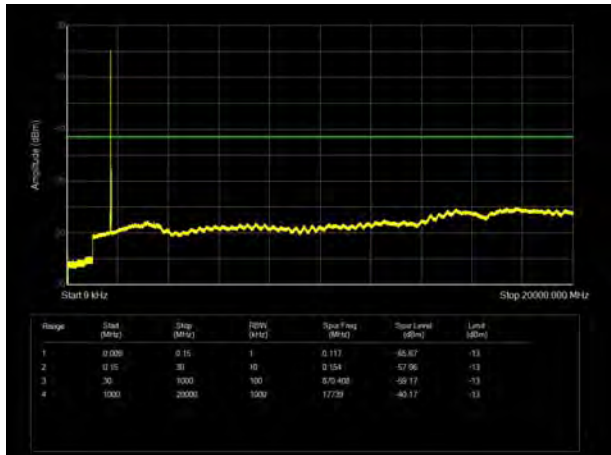


LTE Band 4 10MHz CH- High 9kHz~20GHz

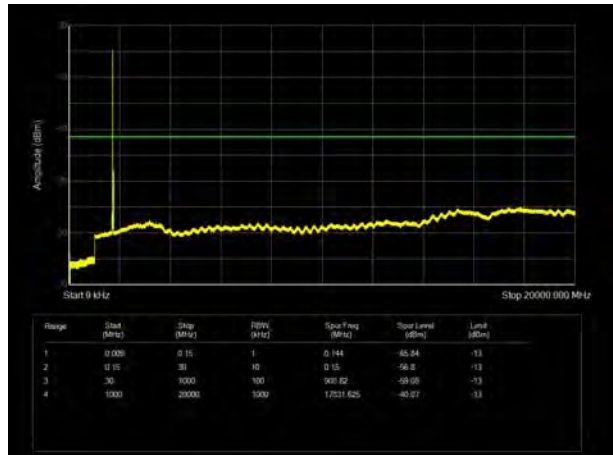




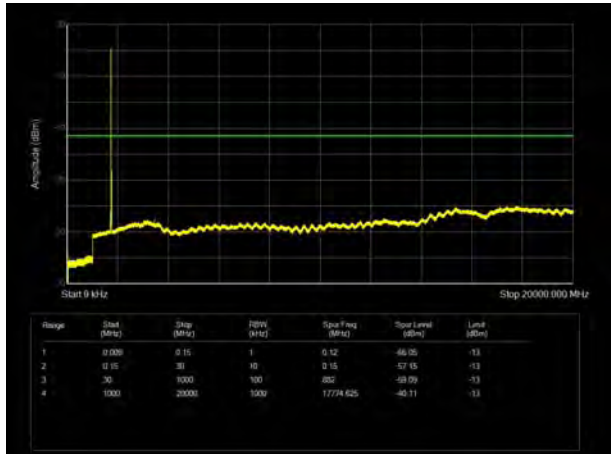
LTE Band 4 15MHz CH- Low 9kHz~20GHz



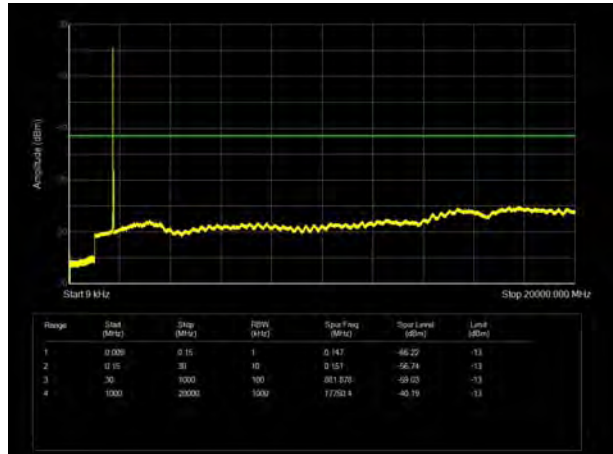
LTE Band 4 20MHz CH-Low 9kHz~20GHz



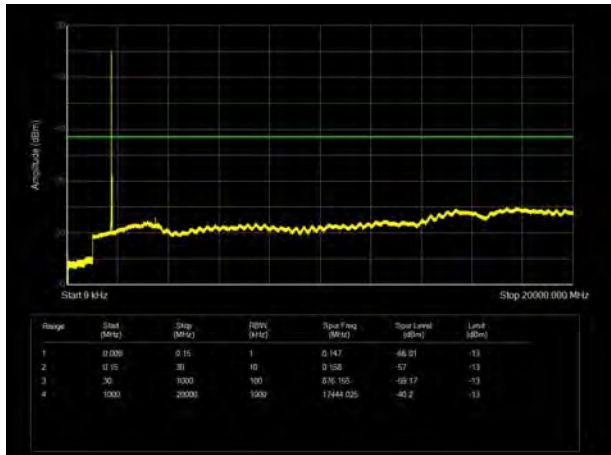
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



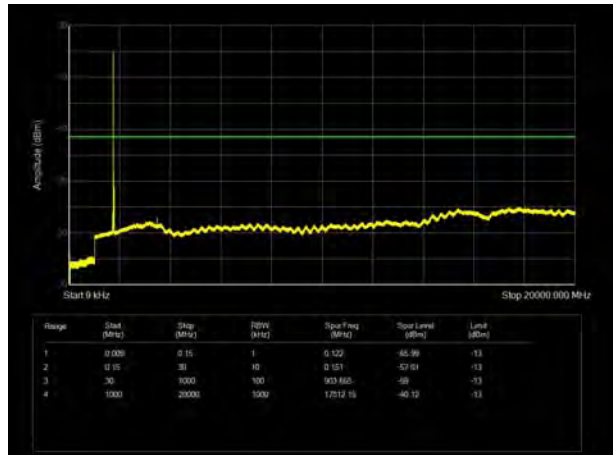
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



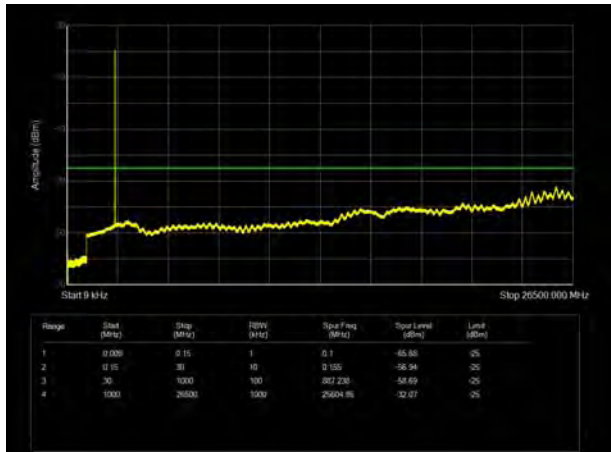
LTE Band 4 15MHz CH-High 9kHz~20GHz



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



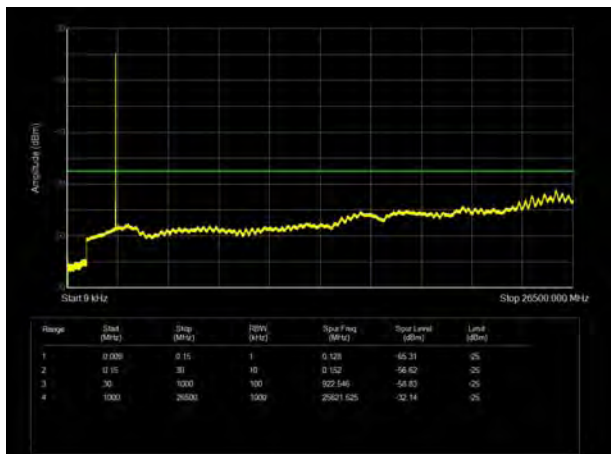
LTE Band 7 5MHz CH- Low 9kHz~26.5GHz



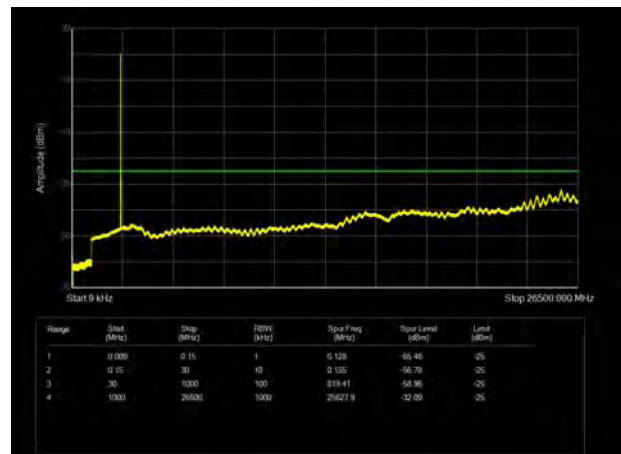
LTE Band 7 10MHz CH-Low 9kHz~26.5GHz



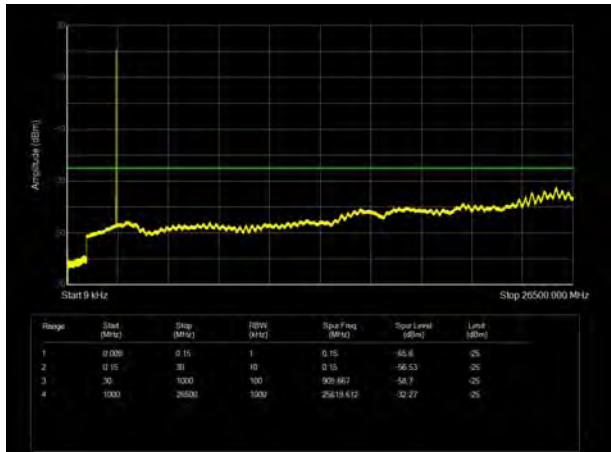
LTE Band 7 5MHz CH- Middle 9kHz~26.5GHz



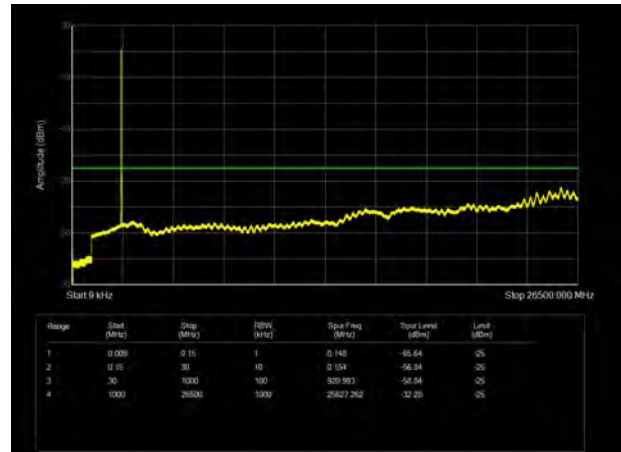
LTE Band 7 10MHz CH- Middle 9kHz~26.5GHz



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

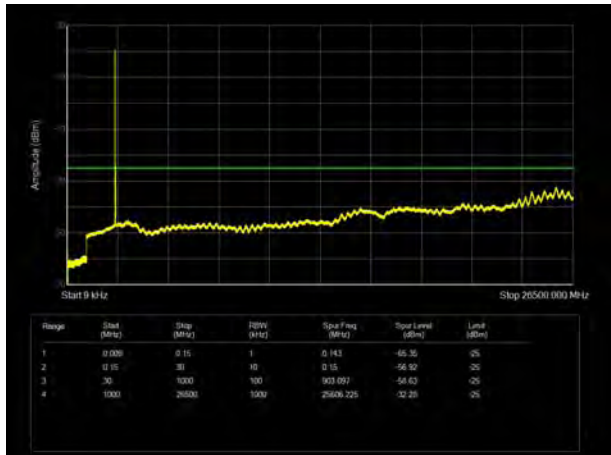


LTE Band 7 10MHz CH- High 9kHz~26.5GHz

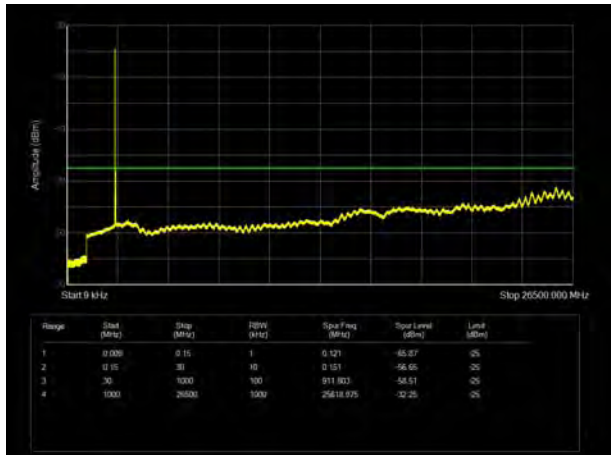




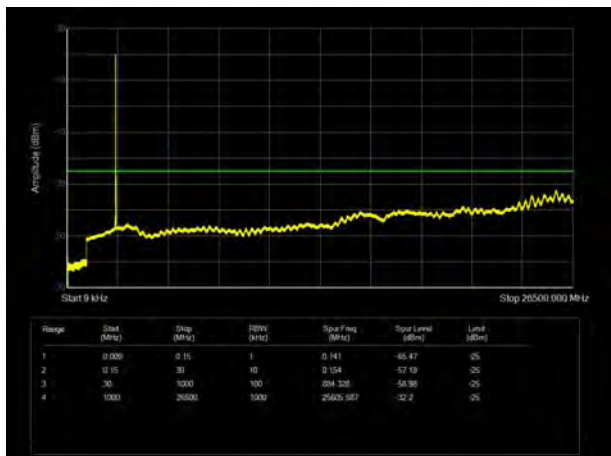
LTE Band 7 15MHz CH- Low 9kHz~26.5GHz



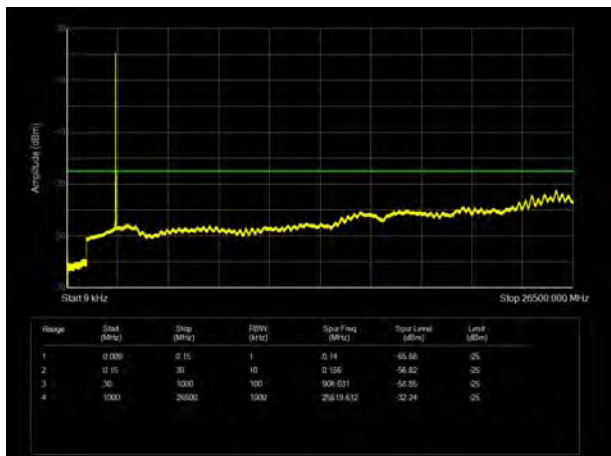
LTE Band 7 20MHz CH-Low 9kHz~26.5GHz



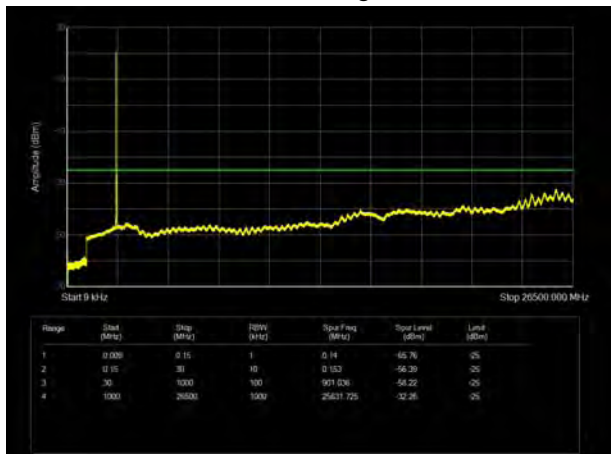
LTE Band 7 15MHz CH- Middle 9kHz~26.5GHz



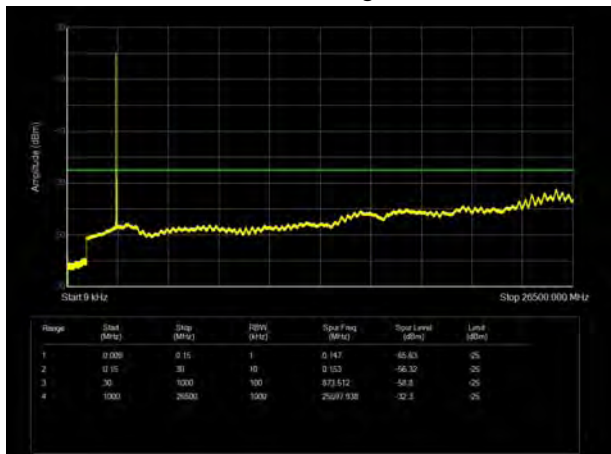
LTE Band 7 20MHz CH- Middle 9kHz~26.5GHz



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

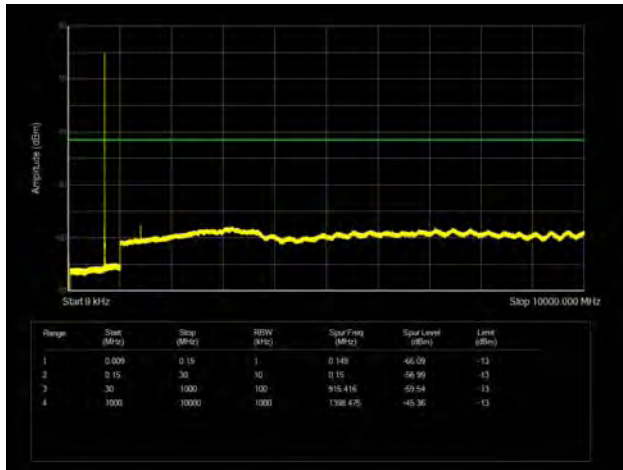


LTE Band 7 20MHz CH- High 9kHz~26.5GHz

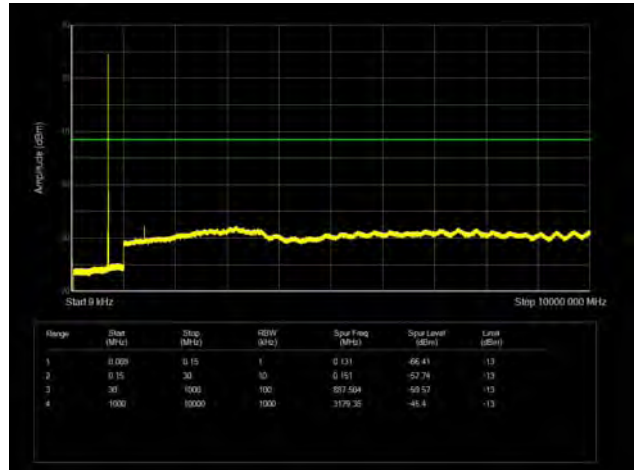




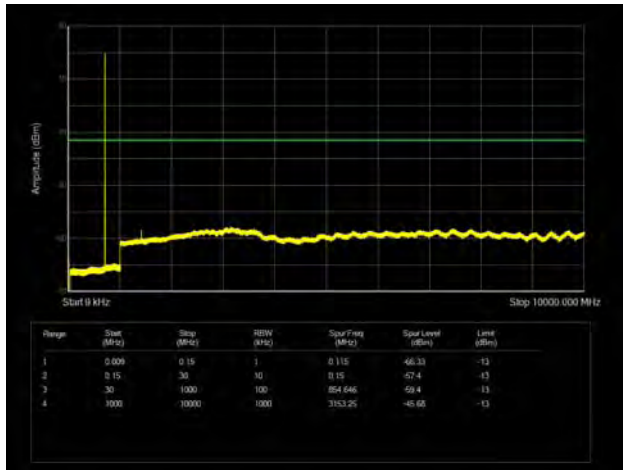
LTE Band 12 1.4MHz CH-Low 9kHz ~10GHz



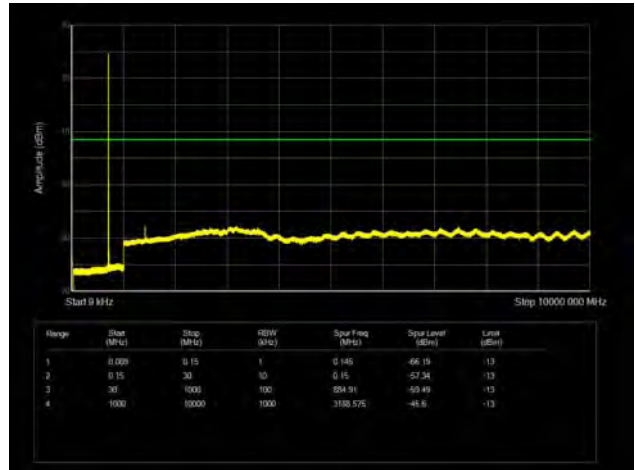
LTE Band 12 3MHz CH-Low 9kHz ~10GHz



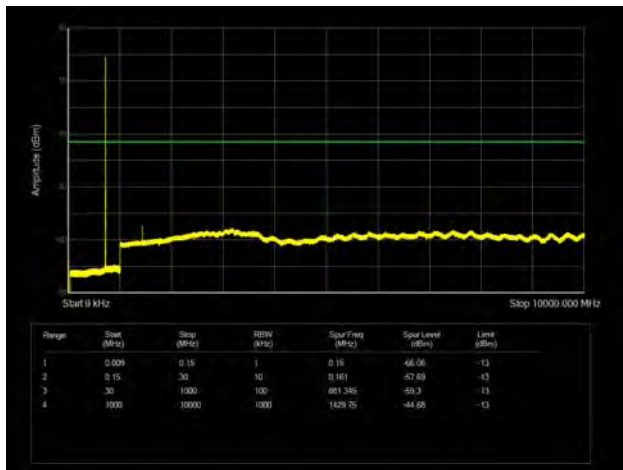
LTE Band 12 1.4MHz CH- Middle 9kHz ~10GHz



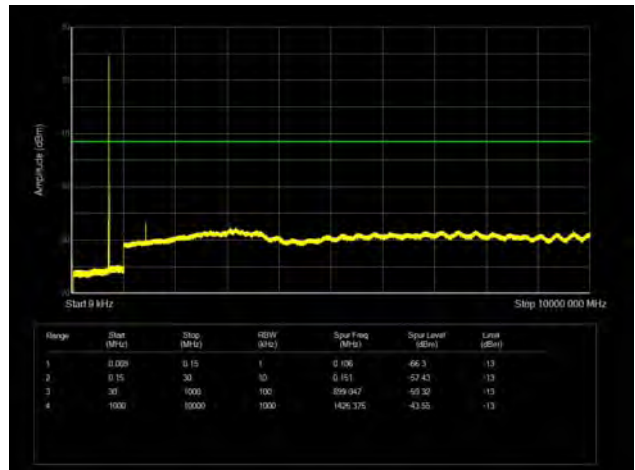
LTE Band 12 3MHz CH- Middle 9kHz ~10GHz



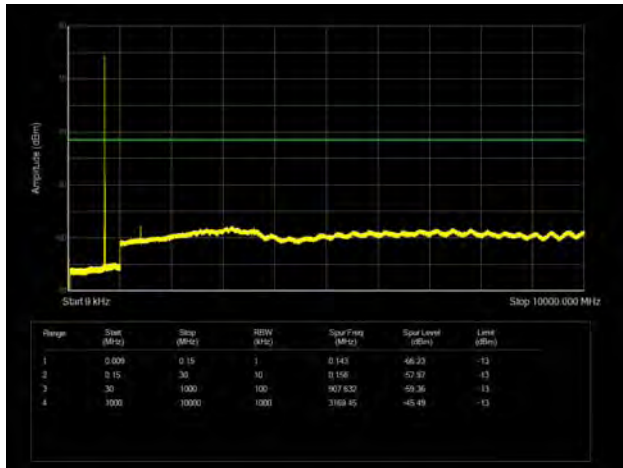
LTE Band 12 1.4MHz CH-High 9kHz ~10GHz



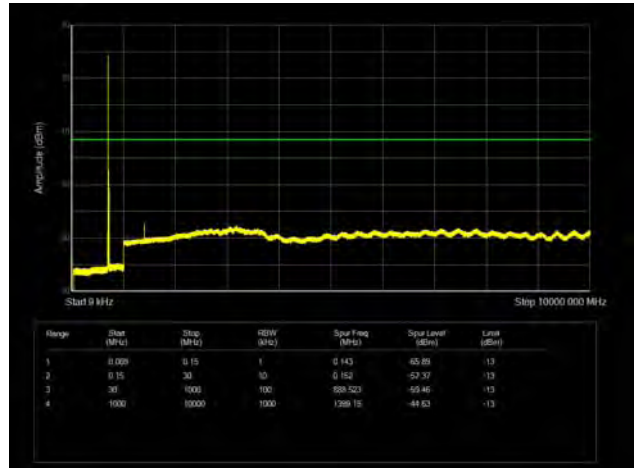
LTE Band 12 3MHz CH-High 9kHz ~10GHz



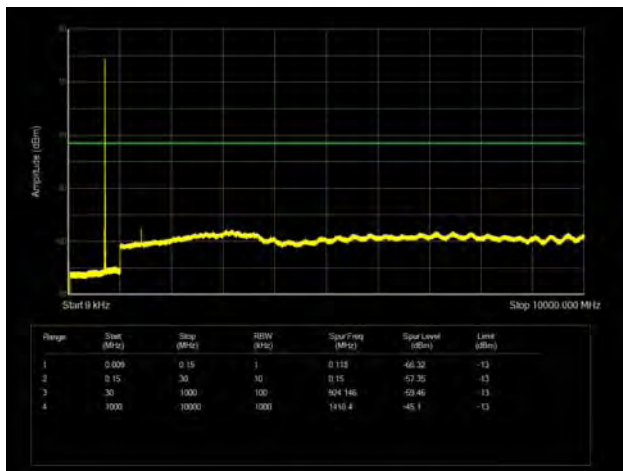
LTE Band 12 5MHz CH-Low 9kHz ~10GHz



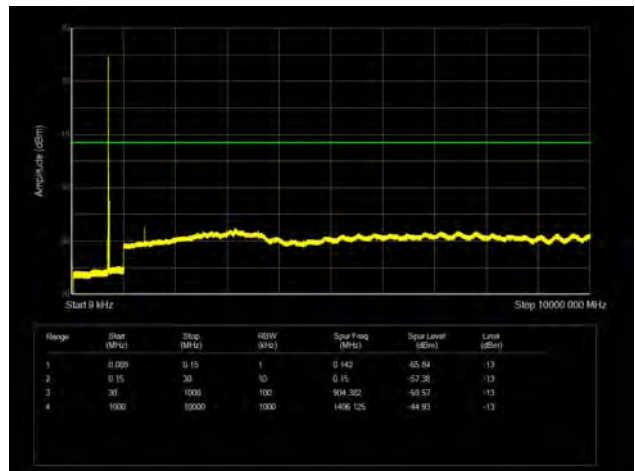
LTE Band 12 10MHz CH-Low 9kHz ~10GHz



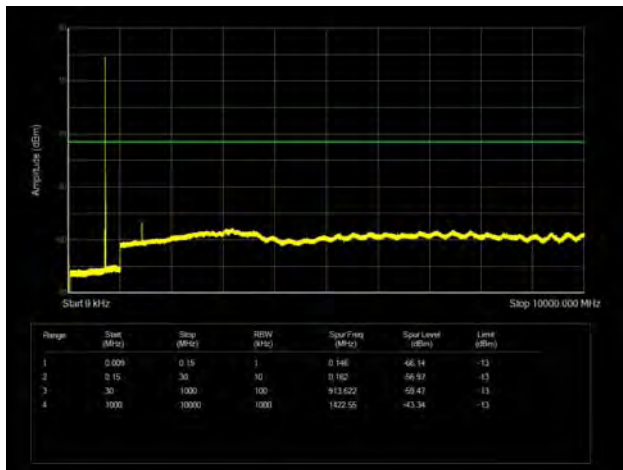
LTE Band 12 5MHz CH- Middle 9kHz ~10GHz



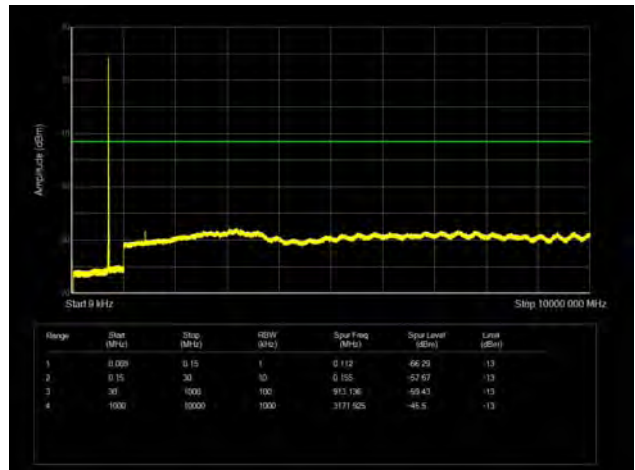
LTE Band 12 10MHz CH- Middle 9kHz ~10GHz



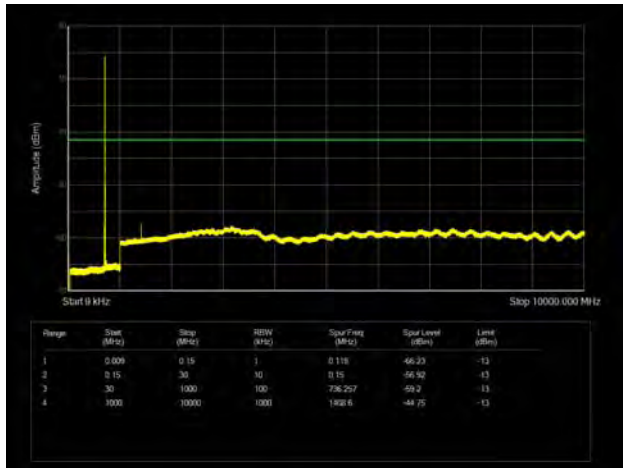
LTE Band 12 5MHz CH-High 9kHz ~10GHz



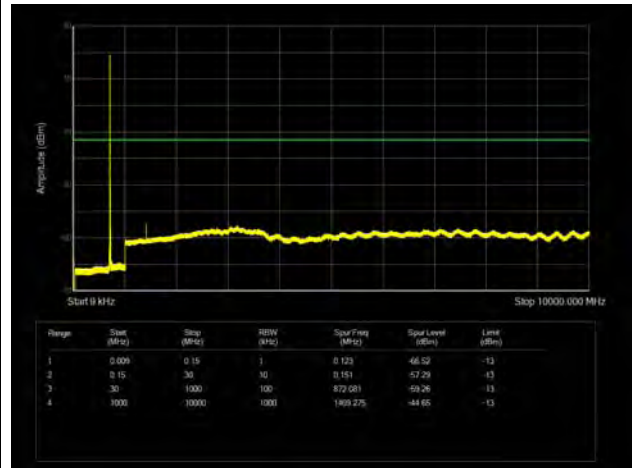
LTE Band 12 10MHz CH-High 9kHz ~10GHz



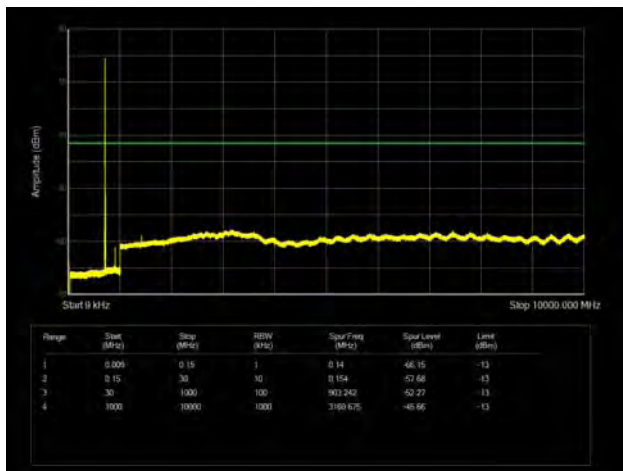
LTE Band 17 5MHz CH-Low 9kHz ~10GHz



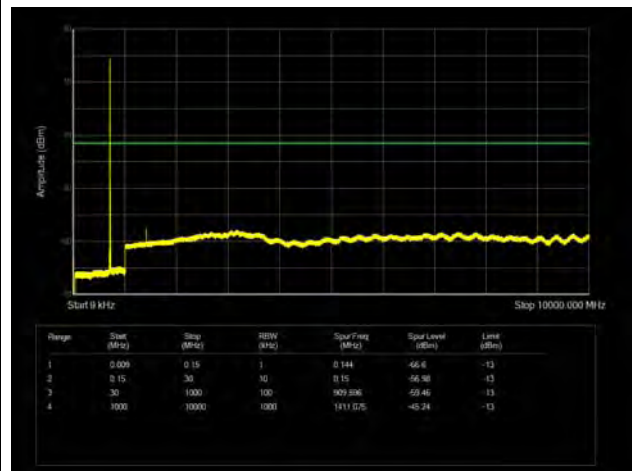
LTE Band 17 10MHz CH-Low 9kHz ~10GHz



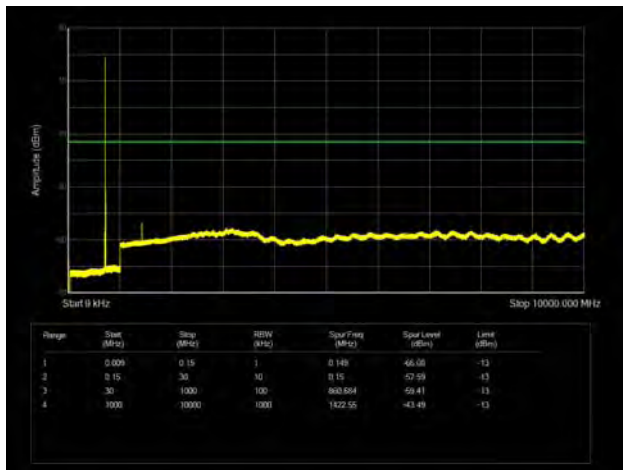
LTE Band 17 5MHz CH-Middle 9kHz ~10GHz



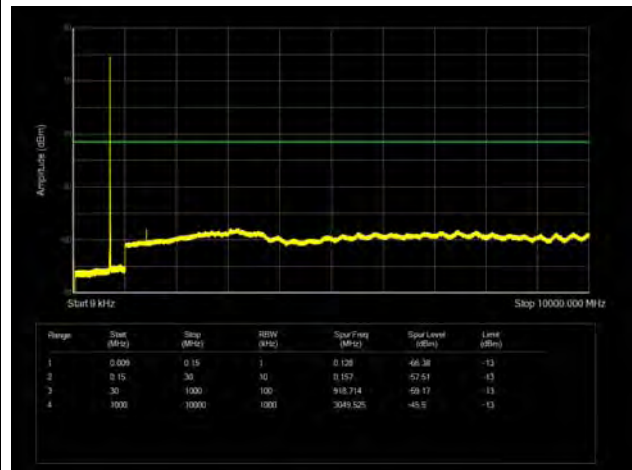
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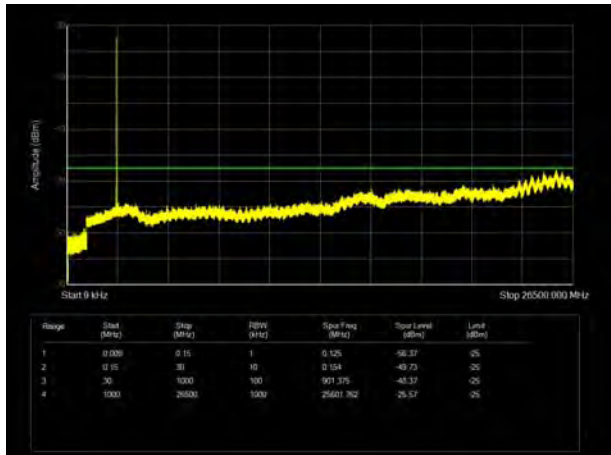
LTE Band 17 5MHz CH-High 9kHz ~10GHz



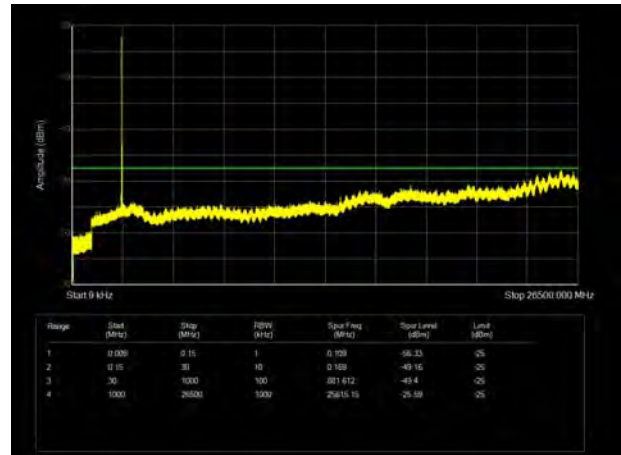
LTE Band 17 10MHz CH-High 9kHz ~10GHz



LTE Band 38 5MHz CH- Low 9kHz~26.5GHz



LTE Band 38 10MHz CH- Low 9kHz~26.5GHz



LTE Band 38 5MHz CH- Middle 9kHz~26.5GHz



LTE Band 38 10MHz CH- Middle 9kHz~26.5GHz



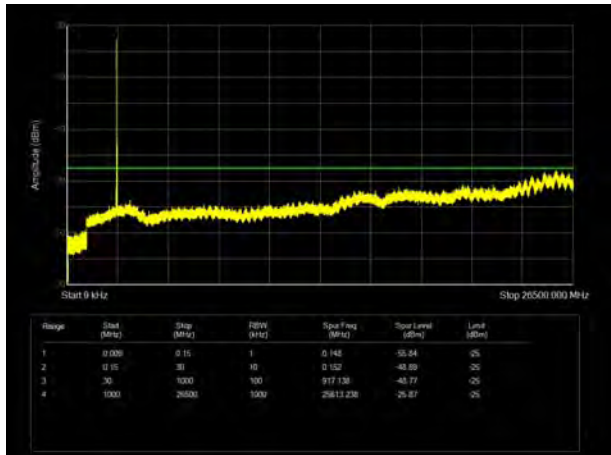
LTE Band 38 5MHz CH-High 9kHz~26.5GHz



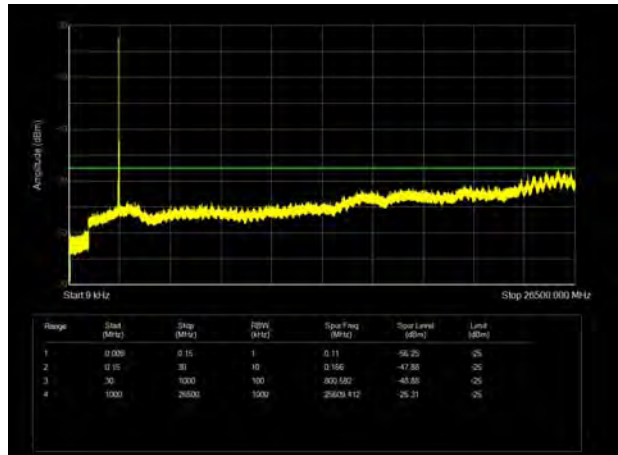
LTE Band 38 10MHz CH-High 9kHz~26.5GHz



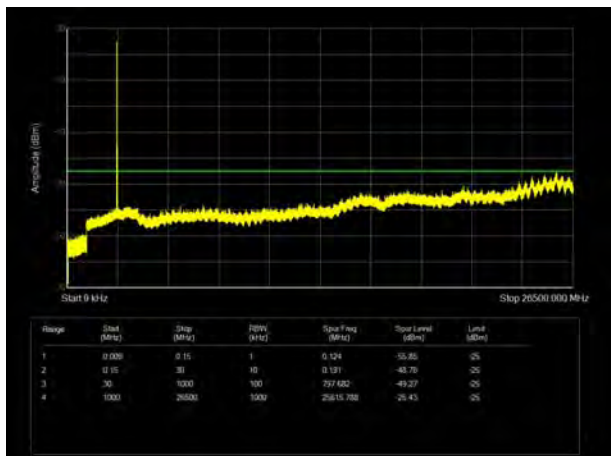
LTE Band 38 15MHz CH- Low 9kHz~26.5GHz



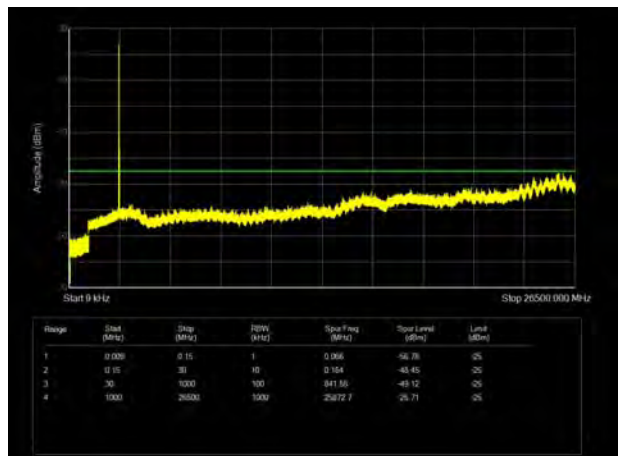
LTE Band 38 20MHz CH-Low 9kHz~26.5GHz



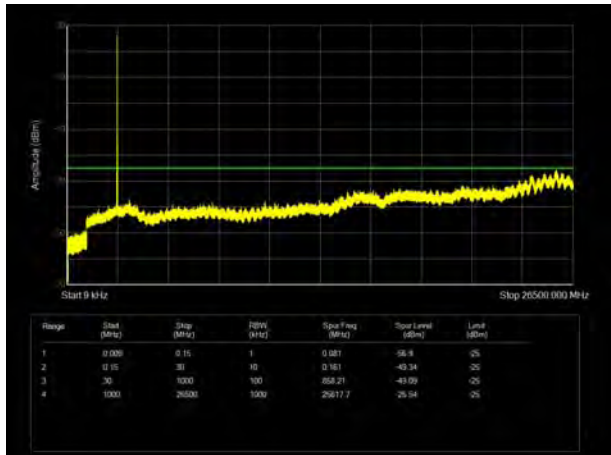
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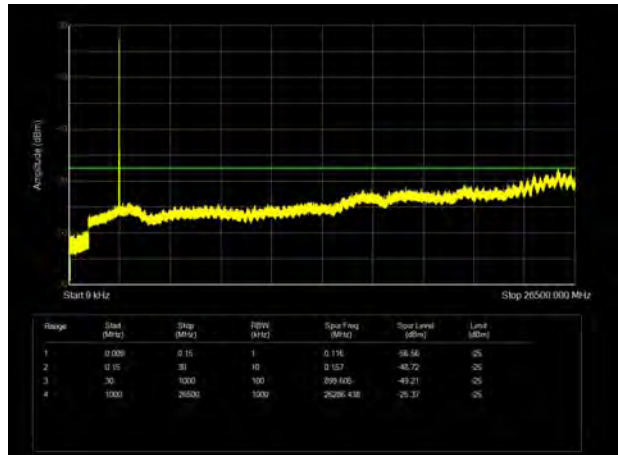
LTE Band 38 20MHz CH- Middle 9kHz~26.5GHz



LTE Band 38 15MHz CH-High 9kHz~26.5GHz

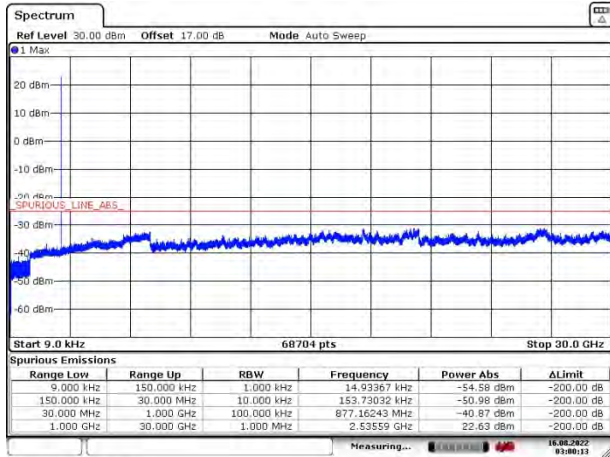


LTE Band 38 20MHz CH- High 9kHz~26.5GHz



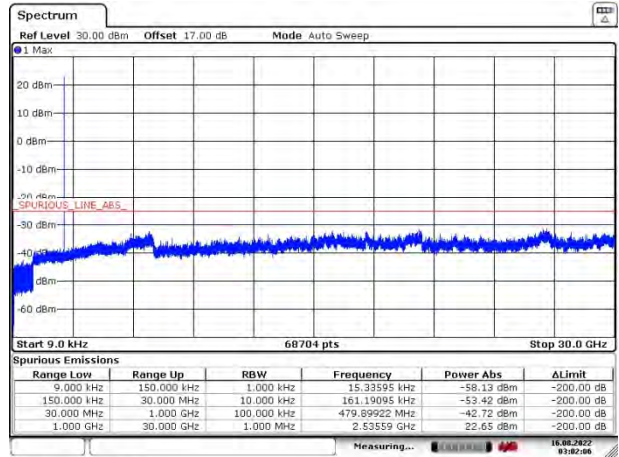


LTE Band 41 5MHz CH- Low 9kHz~30GHz



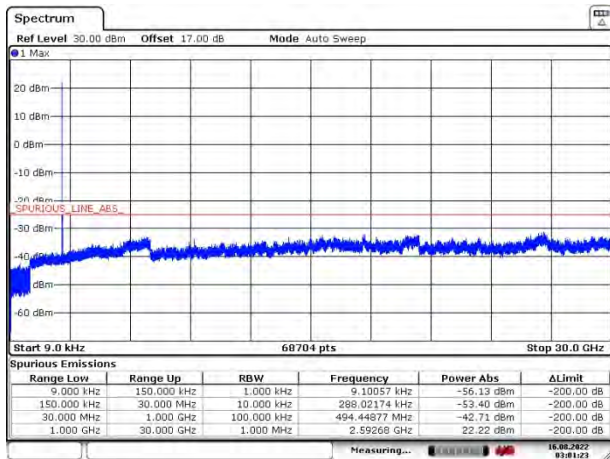
Date: 16 AUG 2022 03:00:13

LTE Band 41 10MHz CH-Low 9kHz~30GHz



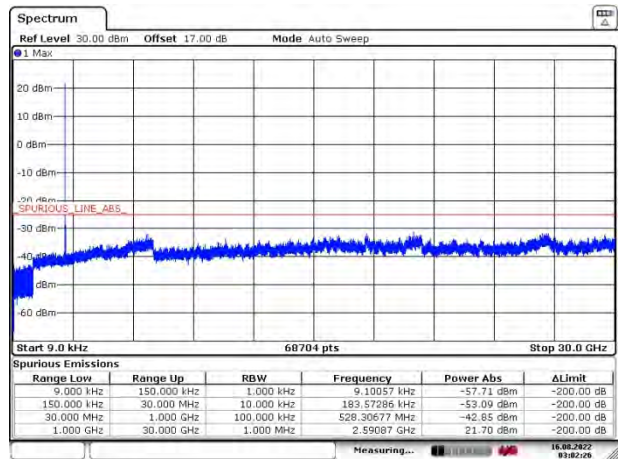
Date: 16 AUG 2022 03:02:06

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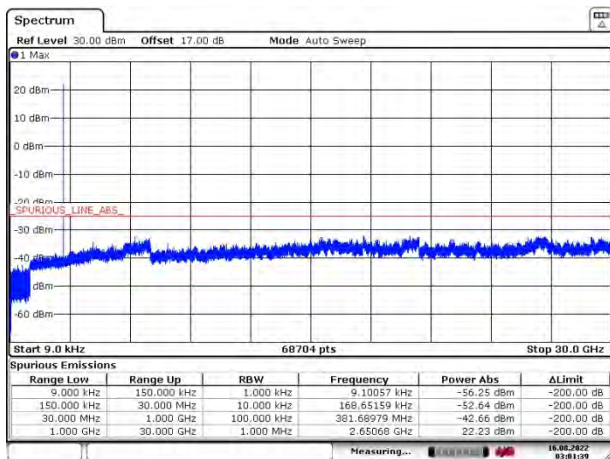
Date: 16 AUG 2022 03:01:24

LTE Band 41 10MHz CH- Middle 9kHz~30GHz



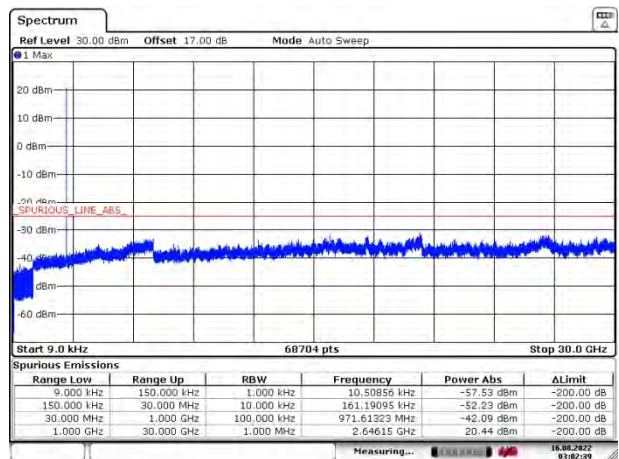
Date: 16 AUG 2022 03:02:26

LTE Band 41 5MHz CH-High 9kHz~30GHz



Date: 16 AUG 2022 03:01:40

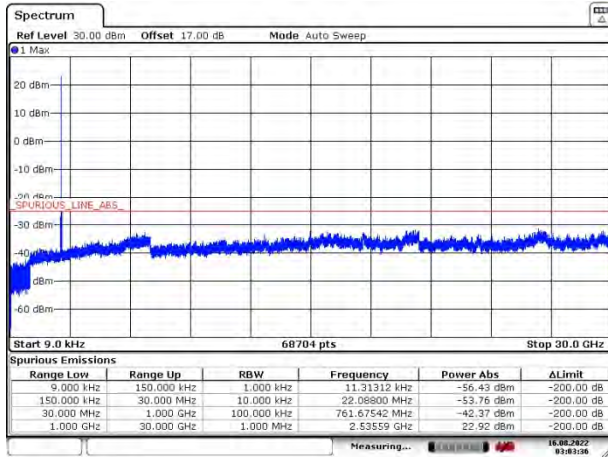
LTE Band 41 10MHz CH- High 9kHz~30GHz



Date: 16 AUG 2022 03:02:38

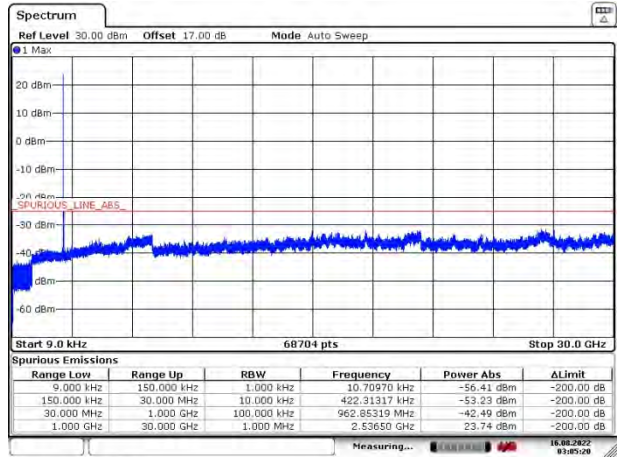


LTE Band 41 15MHz CH- Low 9kHz~30GHz



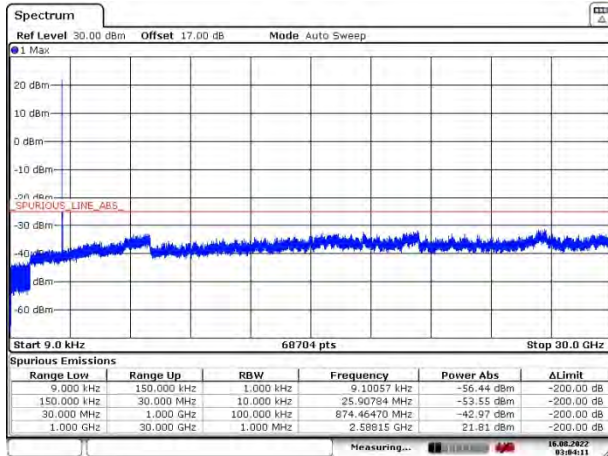
Date: 16 AUG 2022 03:03:36

LTE Band 41 20MHz CH-Low 9kHz~30GHz



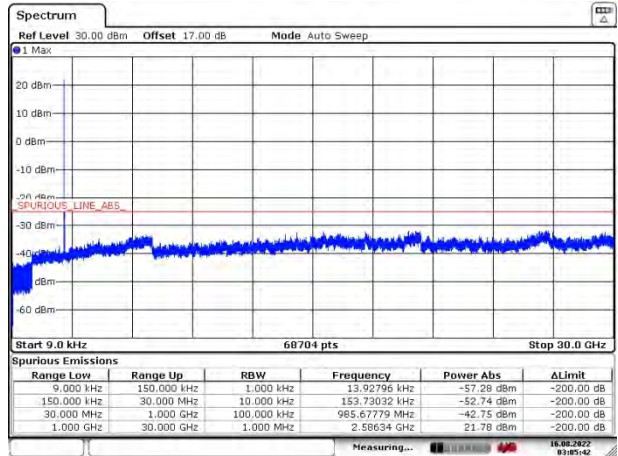
Date: 16 AUG 2022 03:05:19

LTE Band 41 15MHz CH- Middle 9kHz~30GHz



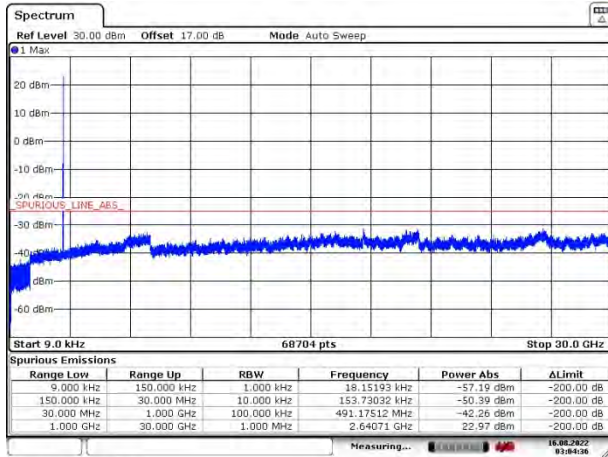
Date: 16 AUG 2022 03:04:11

LTE Band 41 20MHz CH- Middle 9kHz~30GHz



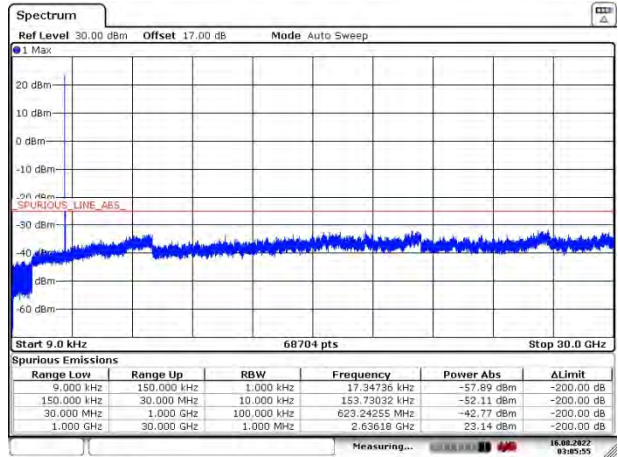
Date: 16 AUG 2022 03:05:42

LTE Band 41 15MHz CH-High 9kHz~30GHz



Date: 16 AUG 2022 03:04:38

LTE Band 41 20MHz CH- High 9kHz~30GHz



Date: 16 AUG 2022 03:05:55

6.7 Radiates 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	-58.57	2.70	12.70	Vertical	-48.57	-13.00	35.57	180
3	5197.80	-53.41	3.20	12.50	Vertical	-44.11	-13.00	31.11	45
4	6930.40	-48.77	4.20	11.80	Vertical	-41.17	-13.00	28.17	225
5	8663.00	-36.65	4.40	12.50	Vertical	-28.55	-13.00	15.55	90
6	10395.60	-38.47	4.70	11.30	Vertical	-31.87	-13.00	18.87	0
7	12128.20	-54.67	5.20	13.80	Vertical	-46.07	-13.00	33.07	0
8	13860.80	-43.32	5.70	11.30	Vertical	-37.72	-13.00	24.72	45
9	15593.40	-56.04	6.10	16.80	Vertical	-45.34	-13.00	32.34	315
10	17326.00	-48.90	6.10	14.20	Vertical	-40.80	-13.00	27.80	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 Vertical 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	3464.00	-55.94	2.70	12.70	Vertical	-45.94	-13.00	32.94	315
3	5196.00	-40.08	3.20	12.50	Vertical	-30.78	-13.00	17.78	90
4	6928.20	-33.25	4.20	11.80	Vertical	-25.65	-13.00	12.65	180
5	8660.20	-25.45	4.40	12.50	Vertical	-17.35	-13.00	4.35	0
6	10392.60	-26.38	4.70	11.30	Vertical	-19.78	-13.00	6.78	315
7	12124.40	-48.02	5.20	13.80	Vertical	-39.42	-13.00	26.42	90
8	13856.60	-29.34	5.70	11.30	Vertical	-23.74	-13.00	10.74	180
9	15592.50	-54.24	6.10	16.80	Vertical	-43.54	-13.00	30.54	0
10	17325.00	-48.47	6.10	14.20	Vertical	-40.37	-13.00	27.37	315

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	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.80	-57.20	2.70	12.70	Vertical	-47.20	-13.00	34.20	180
3	5191.10	-41.66	3.20	12.50	Vertical	-32.36	-13.00	19.36	45
4	6921.00	-33.69	4.20	11.80	Vertical	-26.09	-13.00	13.09	315
5	8651.60	-24.89	4.40	12.50	Vertical	-16.79	-13.00	3.79	270
6	10382.00	-26.09	4.70	11.30	Vertical	-19.49	-13.00	6.49	315
7	12112.20	-46.45	5.20	13.80	Vertical	-37.85	-13.00	24.85	90
8	13842.00	-32.48	5.70	11.30	Vertical	-26.88	-13.00	13.88	180
9	15573.40	-52.02	6.10	16.80	Vertical	-41.32	-13.00	28.32	0
10	17325.00	-48.69	6.10	14.20	Vertical	-40.59	-13.00	27.59	315

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	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.00	-55.46	2.70	12.70	Vertical	-45.46	-13.00	32.46	90
3	5171.00	-45.56	3.20	12.50	Vertical	-36.26	-13.00	23.26	180
4	6894.20	-37.50	4.20	11.80	Vertical	-29.90	-13.00	16.90	0
5	8617.80	-30.35	4.40	12.50	Vertical	-22.25	-13.00	9.25	315
6	10314.40	-32.29	4.70	11.30	Vertical	-25.69	-13.00	12.69	180
7	12065.40	-50.98	5.20	13.80	Vertical	-42.38	-13.00	29.38	45
8	13788.80	-36.39	5.70	11.30	Vertical	-30.79	-13.00	17.79	315
9	15592.50	-54.91	6.10	16.80	Vertical	-44.21	-13.00	31.21	270
10	17325.00	-49.07	6.10	14.20	Vertical	-40.97	-13.00	27.97	45

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 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	5065.70	-46.73	3.40	12.50	Vertical	-37.63	-25.00	12.63	90
3	7598.49	-49.33	4.40	12.20	Vertical	-41.53	-25.00	16.53	225
4	10131.20	-42.76	4.70	11.30	Vertical	-36.16	-25.00	11.16	315
5	12664.00	-48.87	5.40	13.20	Vertical	-41.07	-25.00	16.07	45
6	15197.00	-52.51	6.10	13.10	Vertical	-45.51	-25.00	20.51	180
7	17745.00	-49.58	6.10	14.20	Vertical	-41.48	-25.00	16.48	0
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 Vertical 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	5052.00	-46.94	3.40	12.50	Vertical	-37.84	-25.00	12.84	180
3	7578.40	-50.38	4.40	12.20	Vertical	-42.58	-25.00	17.58	90
4	10104.60	-42.41	4.70	11.30	Vertical	-35.81	-25.00	10.81	0
5	12630.40	-45.97	5.40	13.20	Vertical	-38.17	-25.00	13.17	315
6	15157.00	-52.10	6.10	13.10	Vertical	-45.10	-25.00	20.10	45
7	17745.00	-49.91	6.10	14.20	Vertical	-41.81	-25.00	16.81	0
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 Vertical 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	1414.10	-54.46	1.70	8.70	Vertical	-49.61	-13.00	36.61	0
3	2121.20	-51.41	2.10	11.10	Vertical	-44.56	-13.00	31.56	315
4	2830.00	-67.01	2.30	13.10	Vertical	-58.36	-13.00	45.36	90
5	3537.50	-63.45	2.60	12.70	Vertical	-55.50	-13.00	42.50	270
6	4245.00	-61.48	3.30	12.50	Vertical	-54.43	-13.00	41.43	225
7	4952.50	-59.32	3.40	12.50	Vertical	-52.37	-13.00	39.37	45
8	5660.00	-60.44	3.30	12.50	Vertical	-53.39	-13.00	40.39	180
9	6367.50	-56.25	3.80	11.50	Vertical	-50.70	-13.00	37.70	0
10	7075.00	-56.04	4.20	11.80	Vertical	-50.59	-13.00	37.59	315

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	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.62	-58.40	1.70	8.70	Vertical	-53.55	-13.00	40.55	180
3	2115.80	-51.26	2.10	11.10	Vertical	-44.41	-13.00	31.41	0
4	2821.20	-64.93	2.30	13.10	Vertical	-56.28	-13.00	43.28	315
5	3512.50	-64.86	2.60	12.70	Vertical	-56.91	-13.00	43.91	90
6	4215.00	-62.21	3.30	12.50	Vertical	-55.16	-13.00	42.16	180
7	4917.50	-61.10	3.40	12.50	Vertical	-54.15	-13.00	41.15	0
8	5620.00	-59.19	3.30	12.50	Vertical	-52.14	-13.00	39.14	315
9	6322.50	-58.47	3.80	11.50	Vertical	-52.92	-13.00	39.92	90
10	7025.00	-55.64	4.20	11.80	Vertical	-50.19	-13.00	37.19	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 Vertical 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	1405.92	-61.19	1.70	8.70	Vertical	-56.34	-13.00	43.34	180
3	2109.45	-53.17	2.10	11.10	Vertical	-46.32	-13.00	33.32	45
4	2812.80	-65.70	2.30	13.10	Vertical	-57.05	-13.00	44.05	315
5	3537.50	-65.58	2.60	12.70	Vertical	-57.63	-13.00	44.63	0
6	4245.00	-62.72	3.30	12.50	Vertical	-55.67	-13.00	42.67	315
7	4952.50	-60.84	3.40	12.50	Vertical	-53.89	-13.00	40.89	180
8	5660.00	-60.38	3.30	12.50	Vertical	-53.33	-13.00	40.33	45
9	6367.50	-58.68	3.80	11.50	Vertical	-53.13	-13.00	40.13	315
10	7075.00	-55.70	4.20	11.80	Vertical	-50.25	-13.00	37.25	270

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 17 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	1415.73	-53.29	1.70	8.70	Vertical	-48.44	-13.00	35.44	225
3	2123.70	-51.48	2.10	11.10	Vertical	-44.63	-13.00	31.63	45
4	2830.00	-64.58	2.50	13.10	Vertical	-56.13	-13.00	43.13	180
5	3118.00	-63.46	2.60	12.70	Vertical	-55.51	-13.00	42.51	180
6	3897.50	-61.99	3.30	12.50	Vertical	-54.94	-13.00	41.94	0
7	4677.00	-61.05	3.40	12.50	Vertical	-54.10	-13.00	41.10	315
8	5456.50	-59.98	3.40	12.80	Vertical	-52.73	-13.00	39.73	90
9	6236.00	-58.90	4.10	11.50	Vertical	-53.65	-13.00	40.65	180
10	7015.50	-56.79	4.20	12.20	Vertical	-50.94	-13.00	37.94	0

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 17 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	1411.25	-57.69	1.70	8.70	Vertical	-52.84	-13.00	39.84	0
3	2116.85	-50.56	2.10	11.10	Vertical	-43.71	-13.00	30.71	315
4	2687.70	-64.78	2.50	13.10	Vertical	-56.33	-13.00	43.33	90
5	3108.00	-63.78	2.60	12.70	Vertical	-55.83	-13.00	42.83	180
6	3885.00	-62.28	3.30	12.50	Vertical	-55.23	-13.00	42.23	45
7	4662.00	-59.63	3.40	12.50	Vertical	-52.68	-13.00	39.68	315
8	5439.00	-60.18	3.40	12.80	Vertical	-52.93	-13.00	39.93	270
9	6216.00	-58.13	4.10	11.50	Vertical	-52.88	-13.00	39.88	225
10	6993.00	-59.86	4.20	12.20	Vertical	-54.01	-13.00	41.01	45

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 38 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	5185.70	-42.96	3.20	12.50	Vertical	-33.66	-25.00	8.66	180
3	7778.40	-41.85	4.40	12.30	Vertical	-33.95	-25.00	8.95	135
4	10371.60	-37.94	4.70	11.80	Vertical	-30.84	-25.00	5.84	0
5	12964.00	-41.43	5.40	14.00	Vertical	-32.83	-25.00	7.83	180
6	15556.60	-40.78	6.10	16.80	Vertical	-30.08	-25.00	5.08	225
7	18147.50	--	--	--	--	--	--	--	--
8	20740.00	--	--	--	--	--	--	--	--
9	23332.50	--	--	--	--	--	--	--	--
10	25925.00	--	--	--	--	--	--	--	--

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 Vertical position.



LTE Band 38 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	5172.00	-42.78	3.20	12.50	Vertical	-33.48	-25.00	8.48	270
3	7758.40	-39.66	4.40	12.30	Vertical	-31.76	-25.00	6.76	315
4	10344.60	-37.49	4.70	11.80	Vertical	-30.39	-25.00	5.39	0
5	12930.60	-39.70	5.40	14.00	Vertical	-31.10	-25.00	6.10	45
6	15516.00	-40.98	6.10	16.80	Vertical	-30.28	-25.00	5.28	180
7	18095.00	--	--	--	--	--	--	--	--
8	20680.00	--	--	--	--	--	--	--	--
9	23265.00	--	--	--	--	--	--	--	--
10	25850.00	--	--	--	--	--	--	--	--

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 Vertical position.

LTE Band 41 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	5181.50	-41.68	3.20	12.50	Vertical	-32.38	-25.00	7.38	270
3	7772.40	-37.39	4.40	12.30	Vertical	-29.49	-25.00	4.49	180
4	10363.40	-38.23	4.70	11.80	Vertical	-31.13	-25.00	6.13	0
5	12954.20	-45.18	5.40	14.00	Vertical	-36.58	-25.00	11.58	90
6	15545.20	-46.73	6.10	16.80	Vertical	-36.03	-25.00	11.03	225
7	18071.55	--	--	--	--	--	--	--	--
8	20653.20	--	--	--	--	--	--	--	--
9	23234.85	--	--	--	--	--	--	--	--
10	25816.50	--	--	--	--	--	--	--	--

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 41 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	5168.20	-41.42	3.20	12.50	Vertical	-32.12	-25.00	7.12	45
3	7752.31	-43.55	4.40	12.30	Vertical	-35.65	-25.00	10.65	180
4	10336.20	-36.48	4.70	11.80	Vertical	-29.38	-25.00	4.38	0
5	12920.00	-44.44	5.40	14.00	Vertical	-35.84	-25.00	10.84	90
6	15504.40	-45.70	6.10	16.80	Vertical	-35.00	-25.00	10.00	225
7	18023.60	--	--	--	--	--	--	--	--
8	20598.40	--	--	--	--	--	--	--	--
9	23173.20	--	--	--	--	--	--	--	--
10	25748.00	--	--	--	--	--	--	--	--

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 Vertical position.



7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	ESPEC	SU-242	93000506	2021-12-12	2022-12-11
Comprehensive tester	R&S	CMW500	150415	2022-05-14	2023-05-13
Spectrum Analyzer	Keysight	N9020A	MY50510203	2021-12-12	2022-12-11
Wireless communication tester	Agilent	E5515C	GB44400275	2021-12-12	2022-12-11
Spectrum Analyzer	R&S	FSV40	101297	2021-12-12	2022-12-11
Radiated Spurious Emissions					
Spectrum Analyzer	R&S	FSV30	104028	2021-12-12	2022-12-11
log periodic antenna	Schwarzbeck	VULB 9163	01111	2019-09-12	2022-09-11
high frequency horn antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
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.