



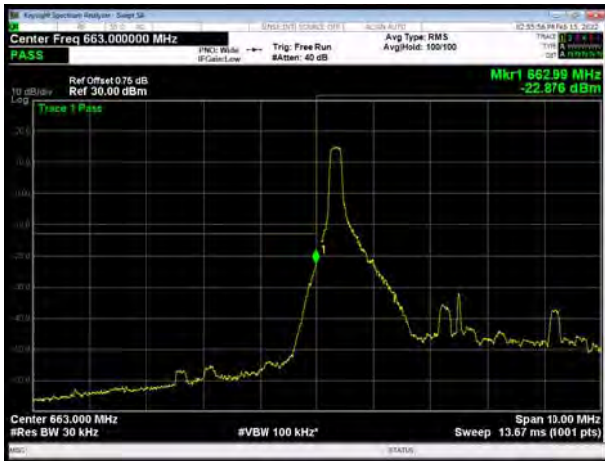
LTE Band 71 16QAM 20MHz CH-Low, 100%RB



LTE Band 71 16QAM 20MHz CH-High, 100%RB



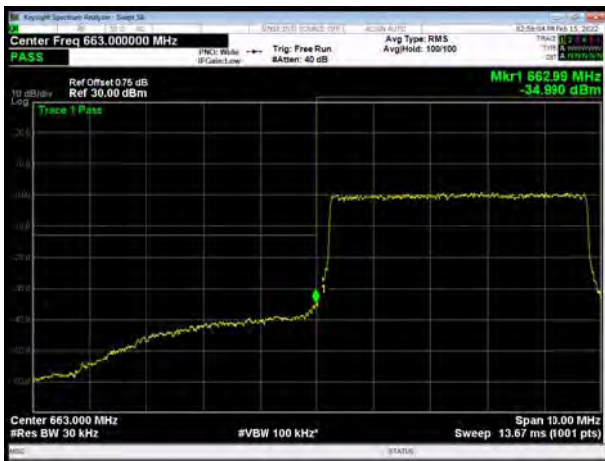
LTE Band 71 64QAM 5MHz CH-Low, 1 RB



LTE Band 71 64QAM 5MHz CH-High, 1 RB



LTE Band 71 64QAM 5MHz CH-Low, 100%RB

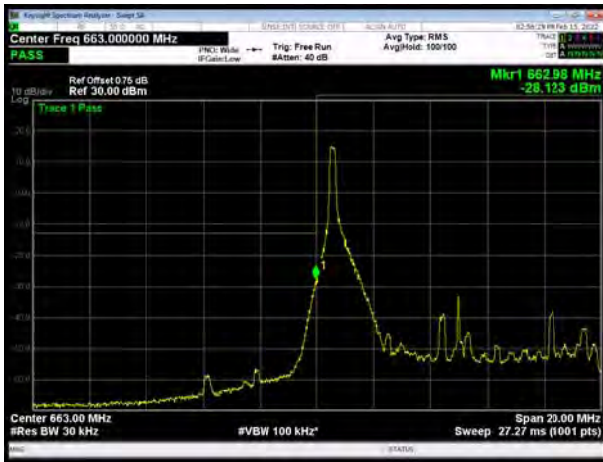


LTE Band 71 64QAM 5MHz CH-High, 100%RB

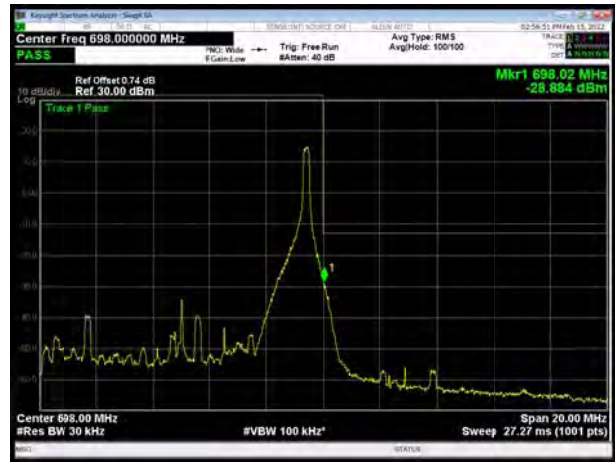




LTE Band 71 64QAM 10MHz CH-Low, 1 RB



LTE Band 71 64QAM 10MHz CH-High, 1 RB



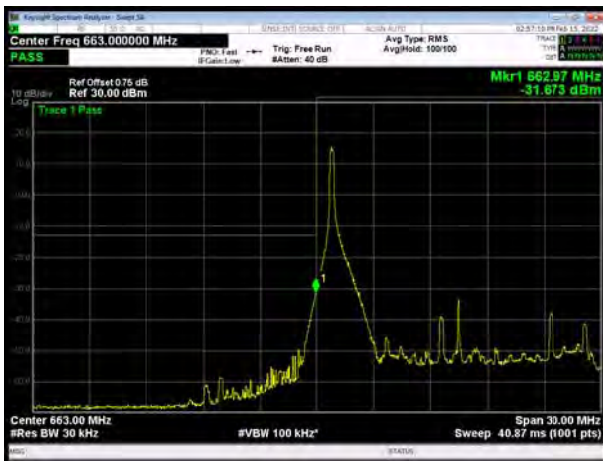
LTE Band 71 64QAM 10MHz CH-Low, 100%RB



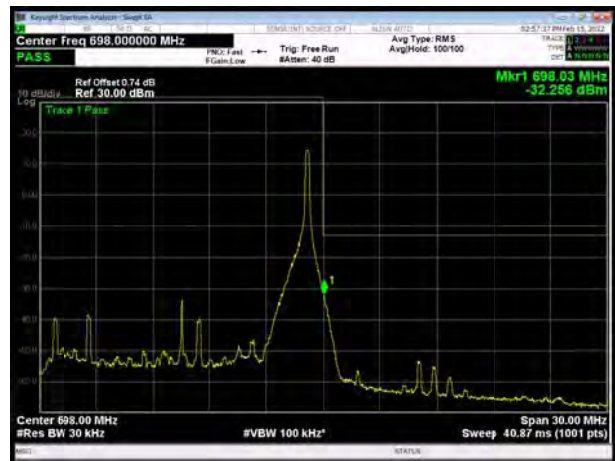
LTE Band 71 64QAM 10MHz CH-High, 100%RB



LTE Band 71 64QAM 15MHz CH-Low, 1 RB

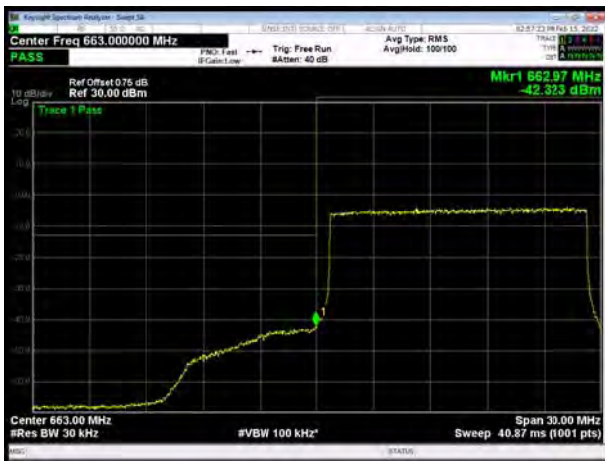


LTE Band 71 64QAM 15MHz CH-High, 1 RB

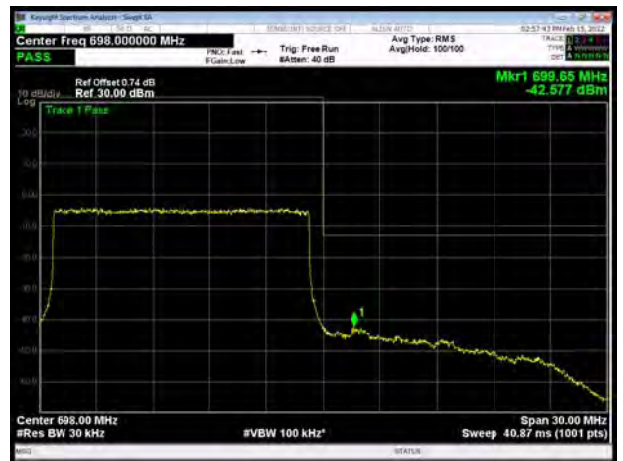




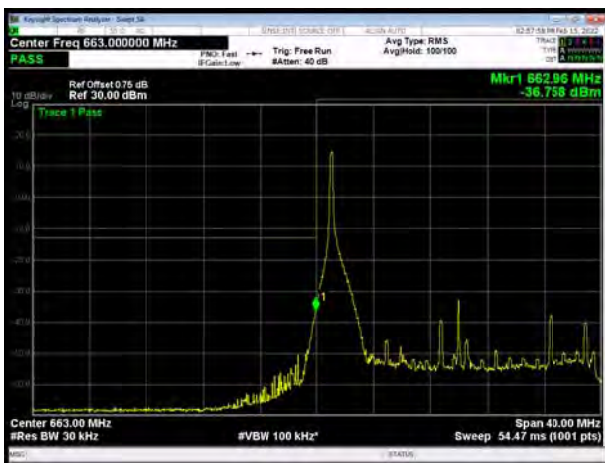
LTE Band 71 64QAM 15MHz CH-Low, 100%RB



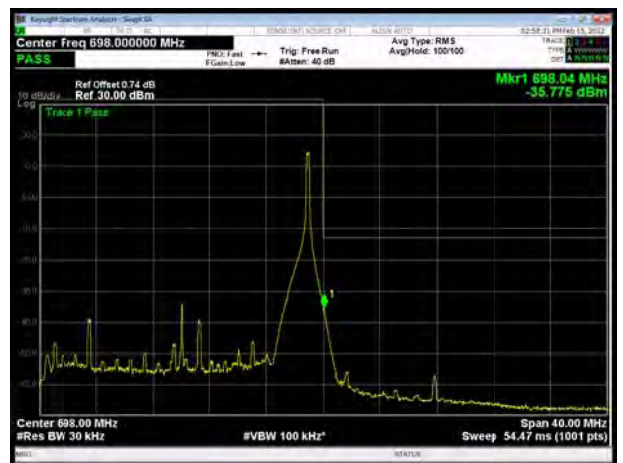
LTE Band 71 64QAM 15MHz CH-High, 100%RB



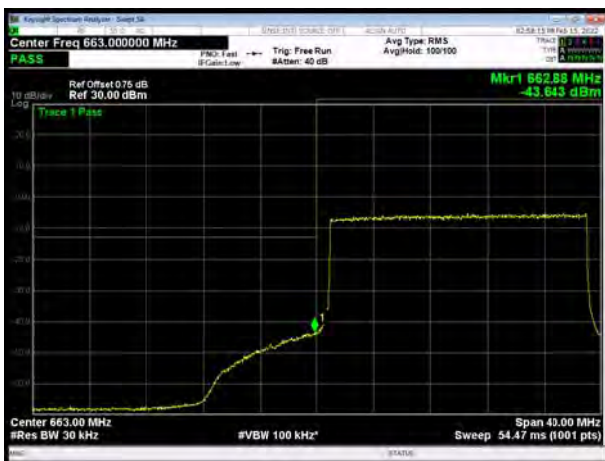
LTE Band 71 64QAM 20MHz CH-Low, 1 RB



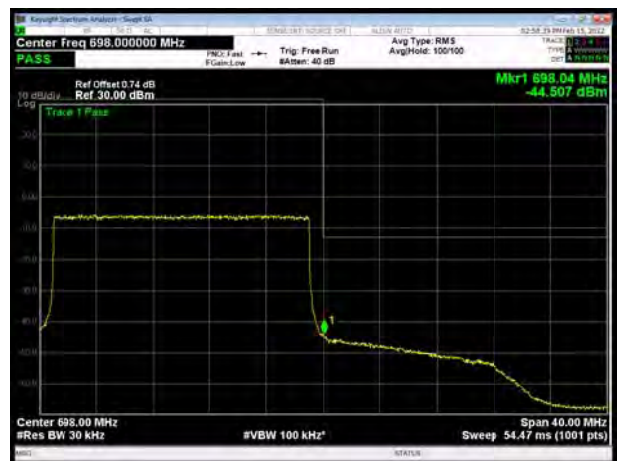
LTE Band 71 64QAM 20MHz CH-High, 1 RB



LTE Band 71 64QAM 20MHz CH-Low, 100%RB

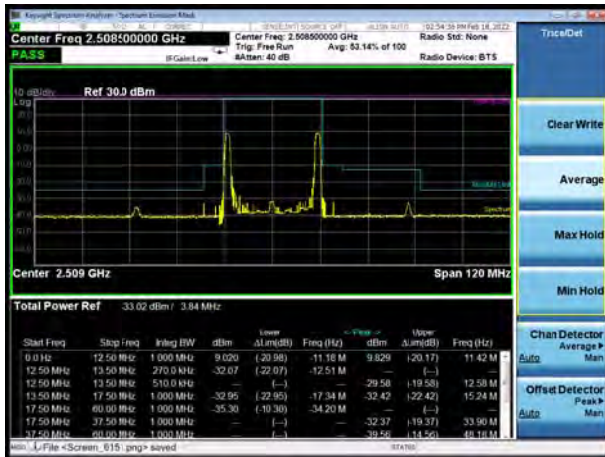


LTE Band 71 64QAM 20MHz CH-High, 100%RB

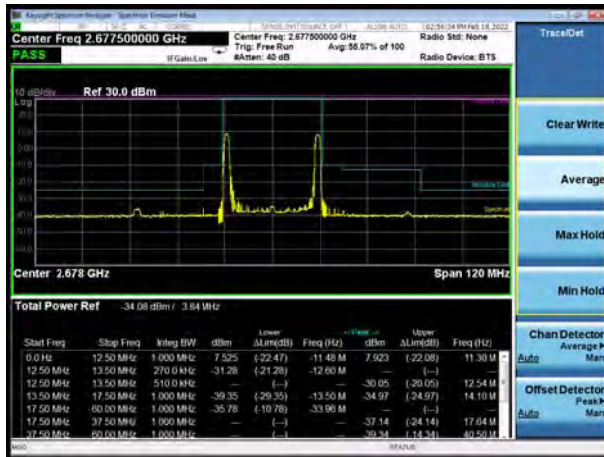




CA_41C QPSK 20MHz+5MHz CH-Low, RB 1



CA_41C QPSK 20MHz+5MHz CH- High, RB 1



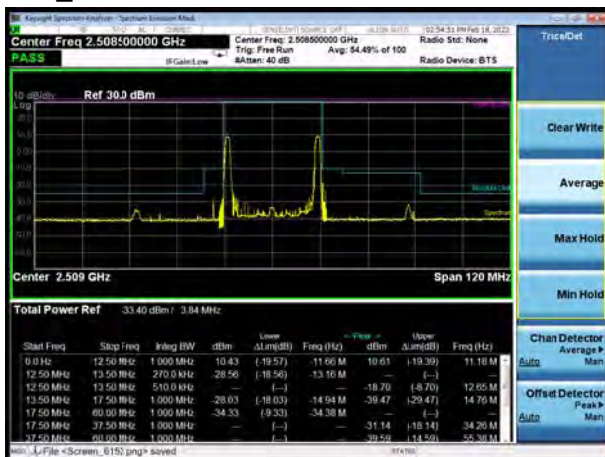
CA_41C QPSK 20MHz+5MHz CH-Low, 100%RB



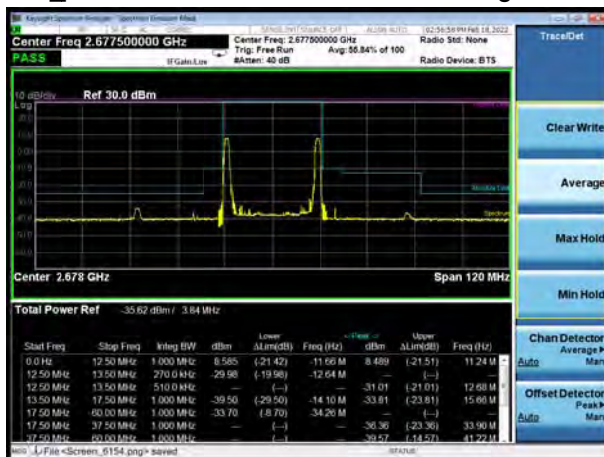
CA_41C QPSK 20MHz+5MHz CH- High, 100%RB



CA_41C 16QAM 20MHz+5MHz CH-Low, RB 1



CA_41C 16QAM 20MHz+5MHz CH- High, RB 1





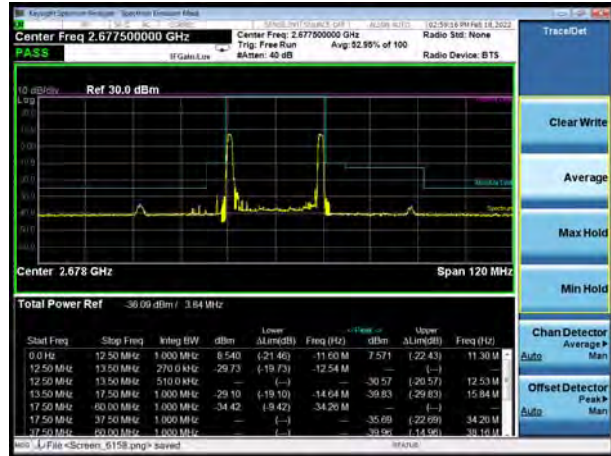
CA_41C 16QAM 20MHz+5MHz CH-Low, 100%RB

CA_41C 16QAM 20MHz+5MHz CH- High, 100%RB



CA_41C 64QAM 20MHz+5MHz CH-Low, RB 1

CA_41C 64QAM 20MHz+5MHz CH- High, RB 1



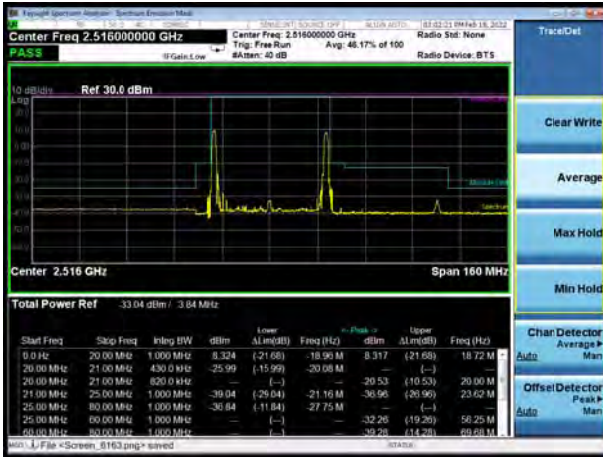
CA_41C 64QAM 20MHz+5MHz CH-Low, 100%RB

CA_41C 64QAM 20MHz+5MHz CH- High, 100%RB

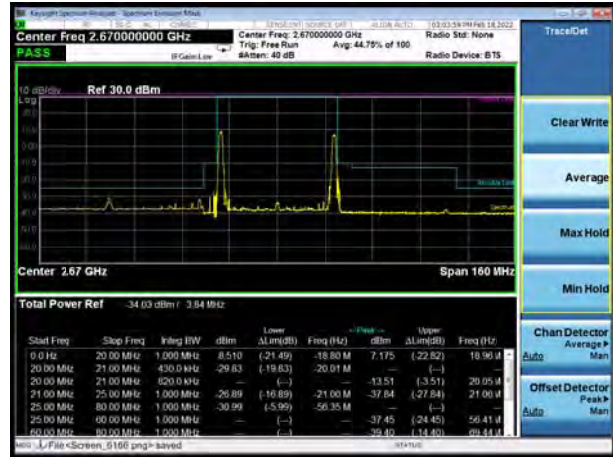




CA_41C QPSK 20MHz+20MHz CH-Low, RB 1



CA_41C QPSK 20MHz+20MHz CH- High, RB 1



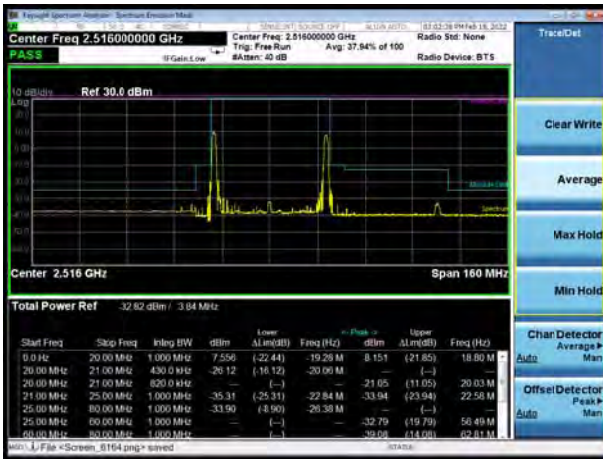
CA_41C QPSK 20MHz+20MHz CH-Low, 100%RB



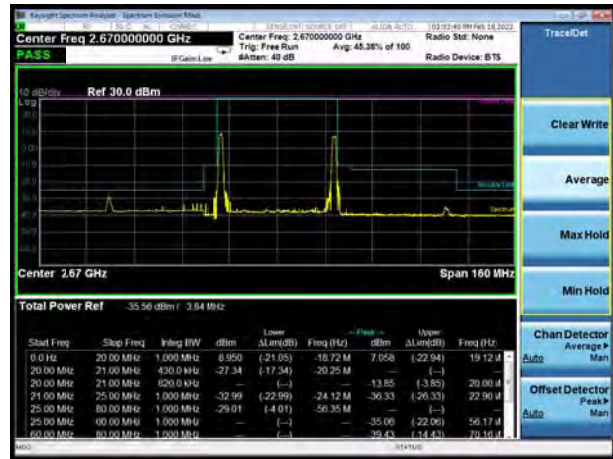
CA_41C QPSK 20MHz+20MHz CH- High, 100%RB



CA_41C 16QAM 20MHz+20MHz CH-Low, RB 1



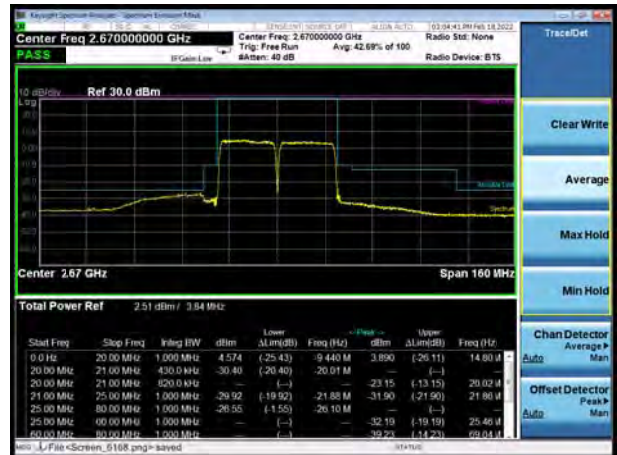
CA_41C 16QAM 20MHz+20MHz CH- High, RB 1





CA_41C 16QAM 20MHz+20MHz CH-Low, 100%RB

CA_41C 16QAM 20MHz+20MHz CH- High, 100%RB



CA_41C 64QAM 20MHz+20MHz CH-Low, RB 1

CA_41C 64QAM 20MHz+20MHz CH- High, RB 1



CA_41C 64QAM 20MHz+20MHz CH-Low, 100%RB

CA_41C 64QAM 20MHz+20MHz CH- High, 100%RB





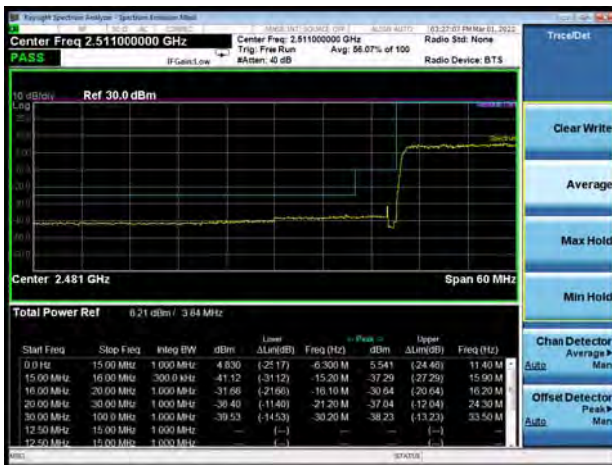
NR n41 P1/2 BPSK 30MHz CH-Low 1RB



NR n41 P1/2 BPSK 30MHz CH-High 1RB



NR n41 P1/2 BPSK 30MHz CH-Low 100%RB



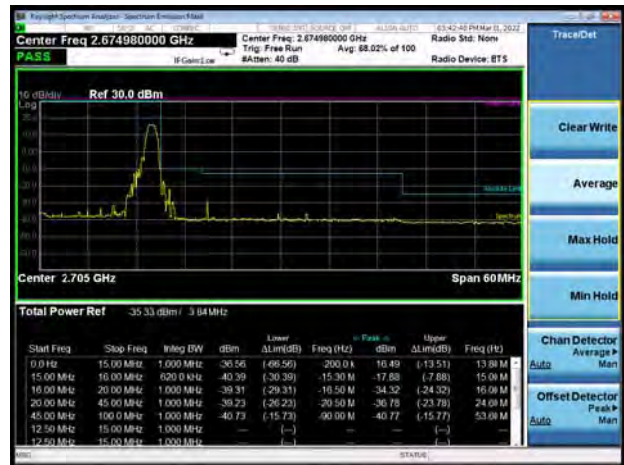
NR n41 P1/2 BPSK 30MHz CH-High 100%RB



NR n41 QPSK 30MHz CH-Low 1RB



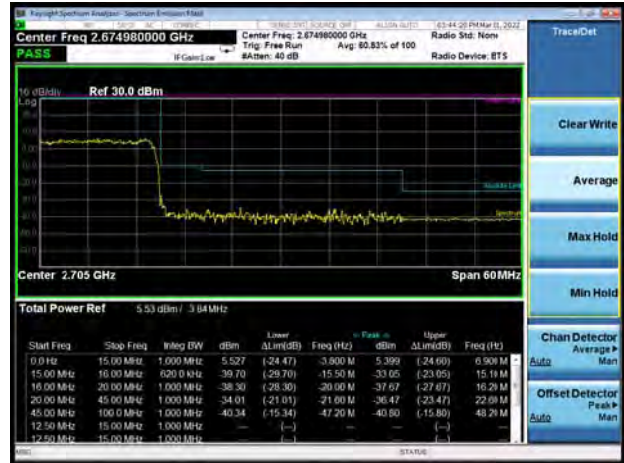
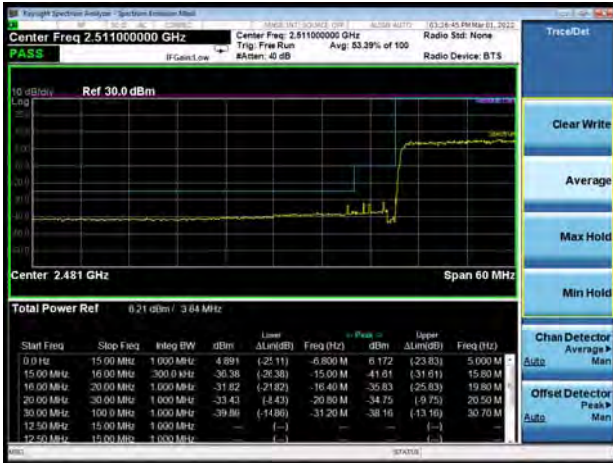
NR n41 QPSK 30MHz CH-High 1RB





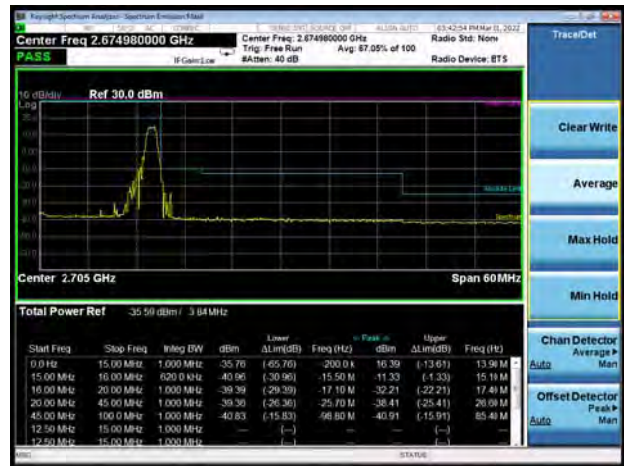
NR n41 QPSK 30MHz CH-Low 100%RB

NR n41 QPSK 30MHz CH-High 100%RB



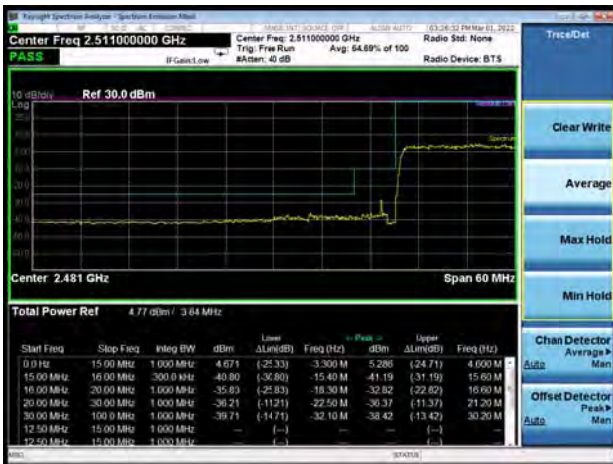
NR n41 16QAM 30MHz CH-Low 1RB

NR n41 16QAM 30MHz CH-High 1RB



NR n41 16QAM 30MHz CH-Low 100%RB

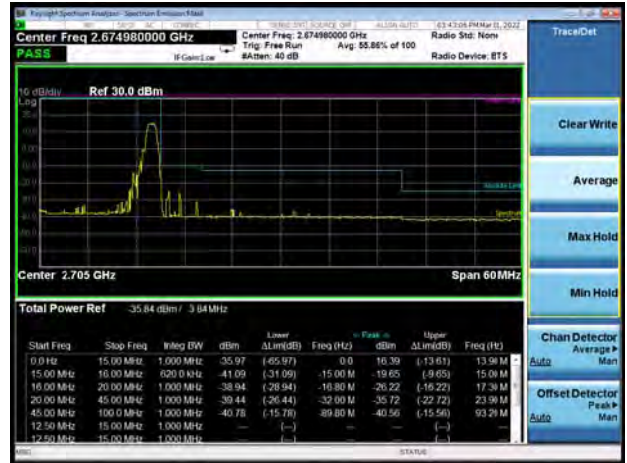
NR n41 16QAM 30MHz CH-High 100%RB





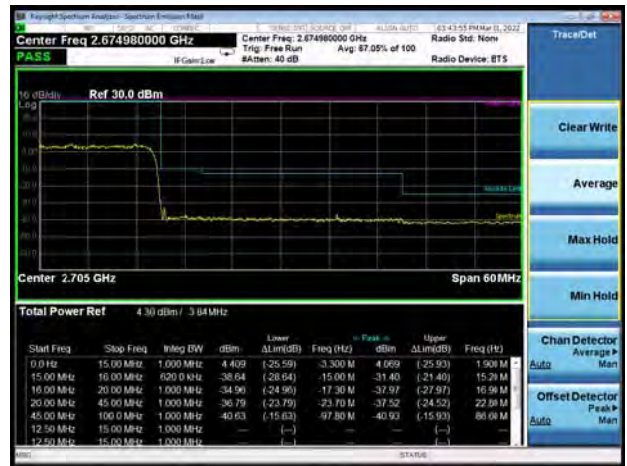
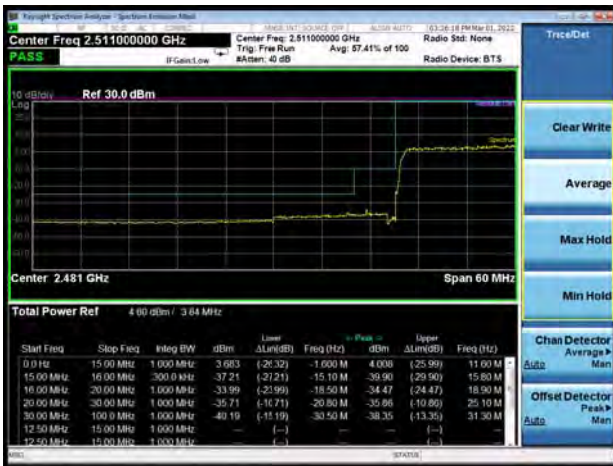
NR n n41 64QAM 30MHz CH-Low 1RB

NR n41 64QAM 30MHz CH-High 1RB



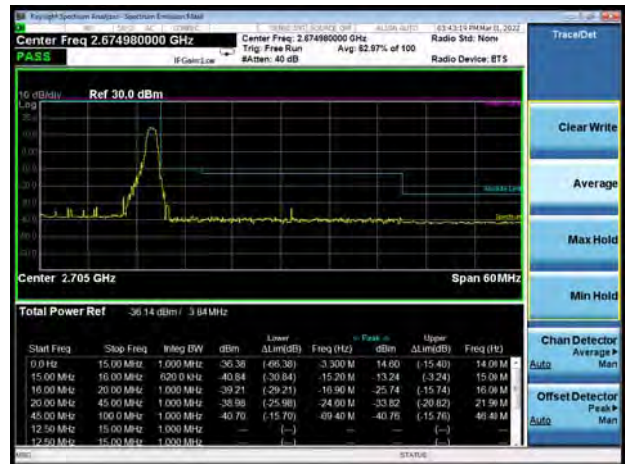
NR n41 64QAM 30MHz CH-Low 100%RB

NR n41 64QAM 30MHz CH-High 100%RB



NR n41 256QAM 30MHz CH-Low 1RB

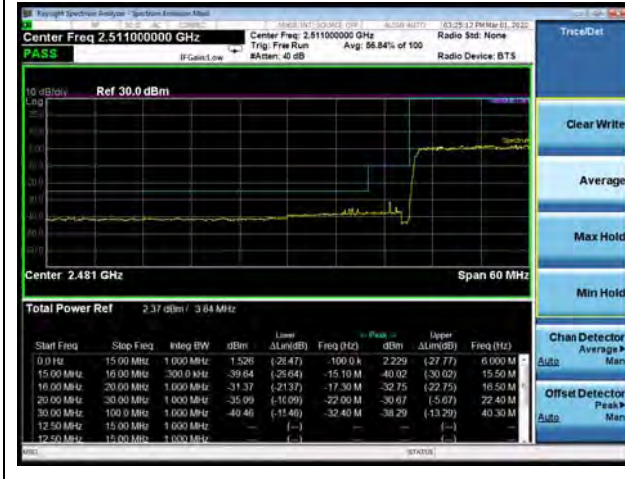
NR n41 256QAM 30MHz CH-High 1RB





NR n41 256QAM 30MHz CH-Low 100%RB

NR n41 256QAM 30MHz CH-High 100%RB



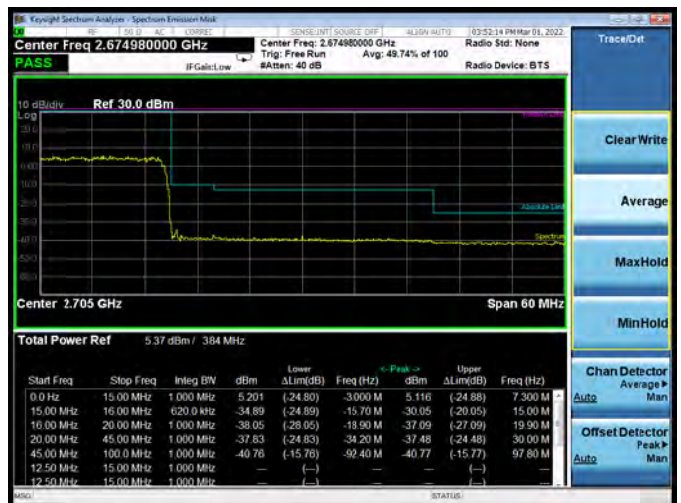
DC_66A_n41A P1/2 BPSK 30MHz CH-Low 1RB

DC_66A_n41A P1/2 BPSK 30MHz CH-High 1RB



DC_66A_n41A P1/2 BPSK 30MHz CH-Low 100%RB

DC_66A_n41A P1/2 BPSK 30MHz CH-High 100%RB

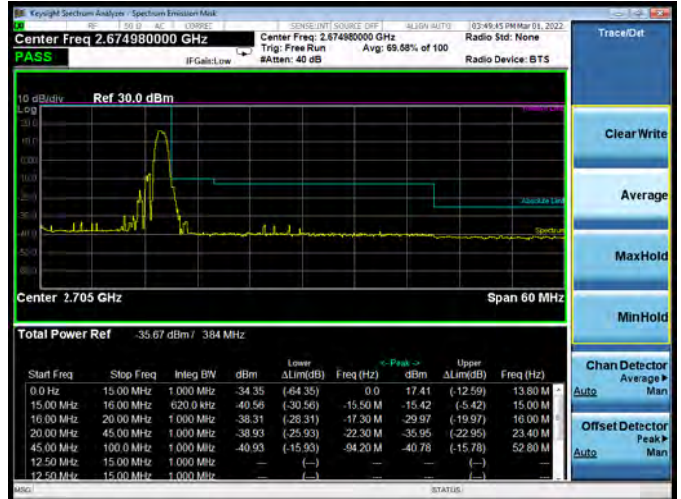




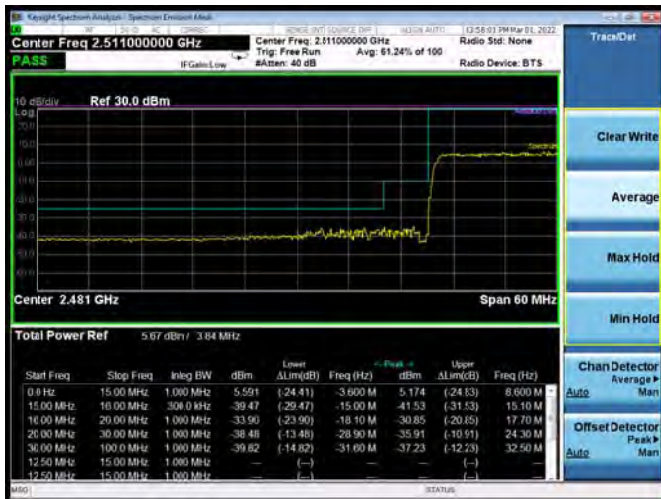
DC_66A_n41A QPSK 30MHz CH-Low 1RB



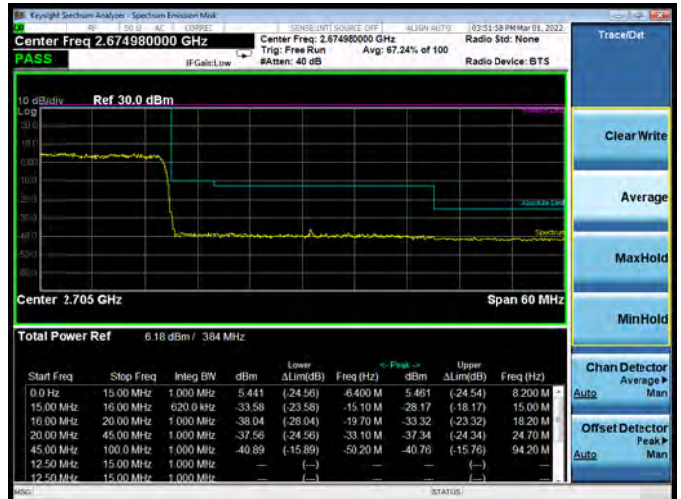
DC_66A_n41A QPSK 30MHz CH-High 1RB



DC_66A_n41A QPSK 30MHz CH-Low 100%RB



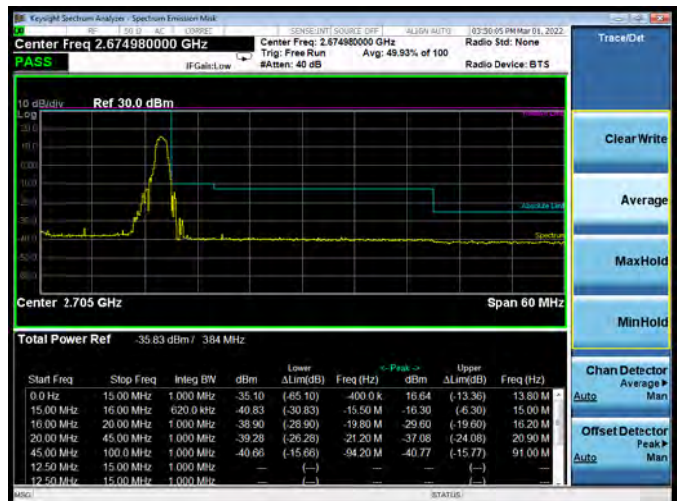
DC_66A_n41A QPSK 30MHz CH-High 100%RB



DC_66A_n41A 16QAM 30MHz CH-Low 1RB

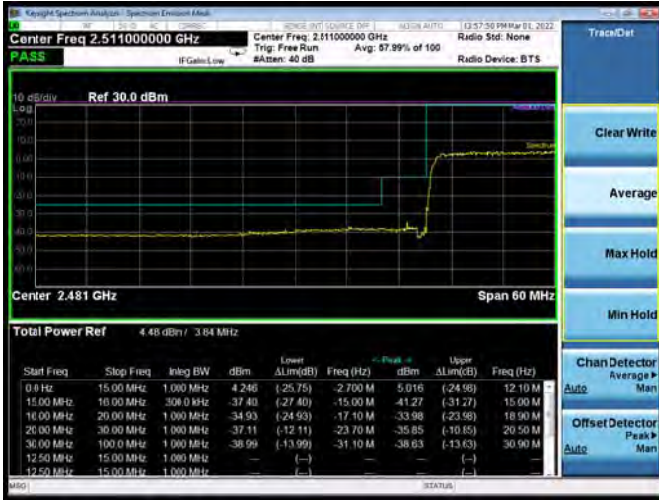


DC_66A_n41A 16QAM 30MHz CH-High 1RB

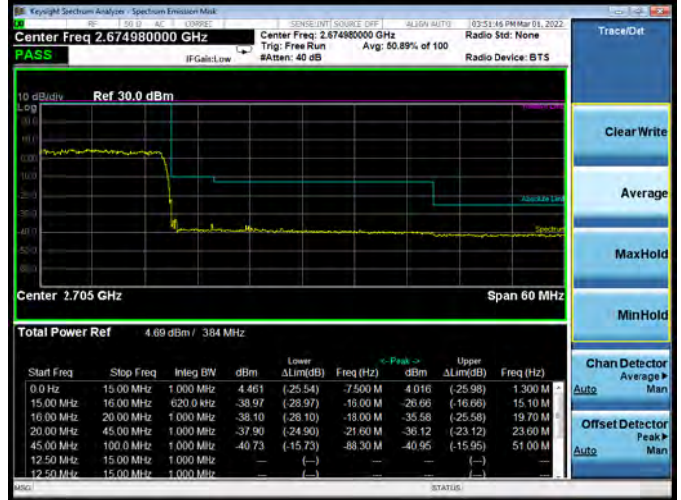




DC_66A_n41A 16QAM 30MHz CH-Low 100%RB



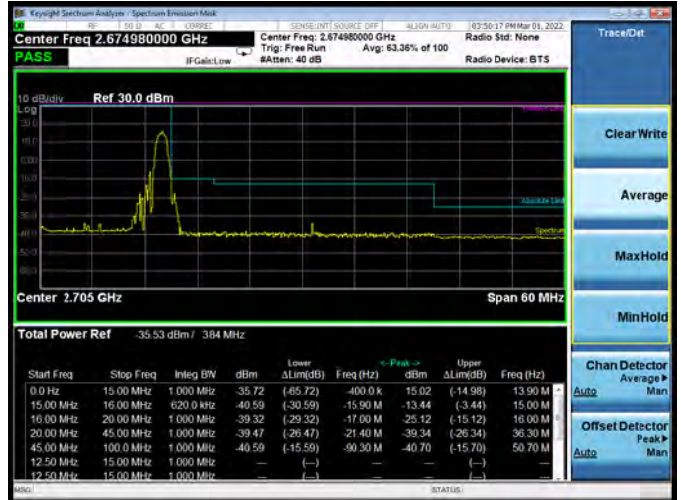
DC_66A_n41A 16QAM 30MHz CH-High 100%RB



DC_66A_n41A 64QAM 30MHz CH-Low 1RB



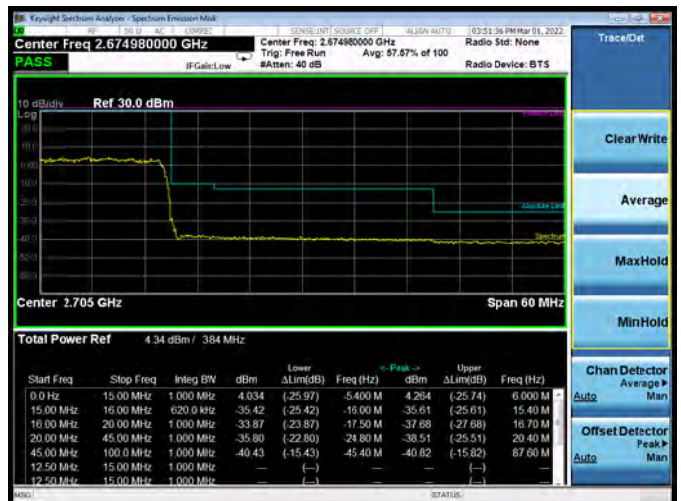
DC_66A_n41A 64QAM 30MHz CH-High 1RB



DC_66A_n41A 64QAM 30MHz CH-Low 100%RB

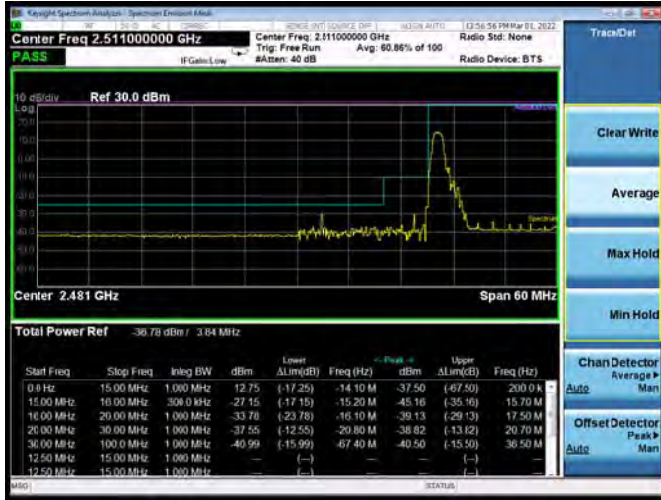


DC_66A_n41A 64QAM 30MHz CH-High 100%RB

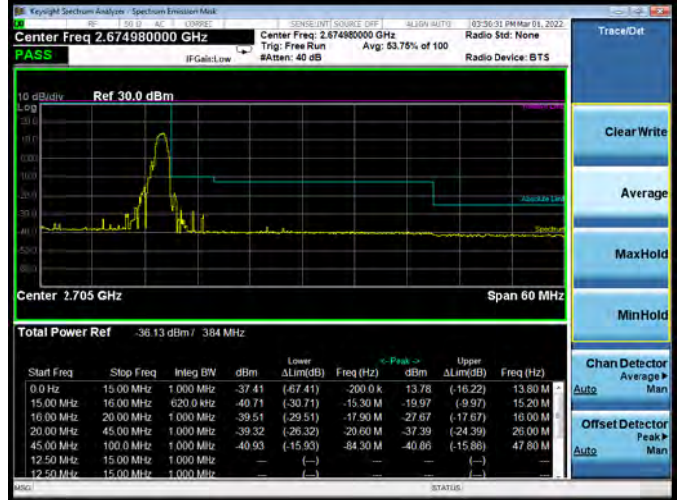




DC_66A_n41A 256QAM 30MHz CH-Low 1RB



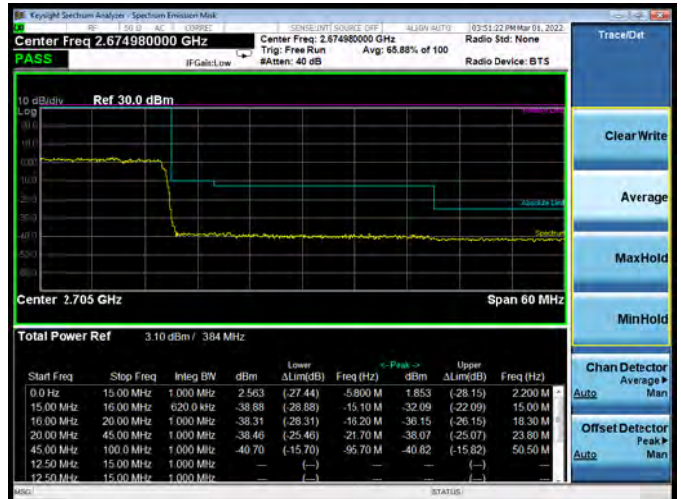
DC_66A_n41A 256QAM 30MHz CH-High 1RB



DC_66A_n41A 256QAM 30MHz CH-Low 100%RB



DC_66A_n41A 256QAM 30MHz CH-High 100%RB

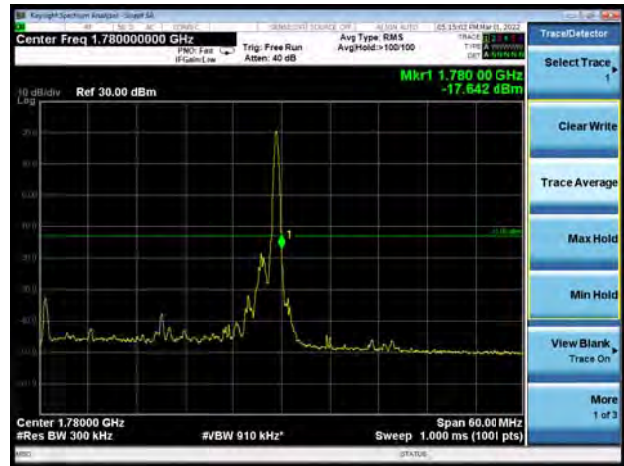




NR n66 P1/2 BPSK 30MHz CH-Low 1RB



NR n66 P1/2 BPSK 30MHz CH-High 1RB



NR n66 P1/2 BPSK 30MHz CH-Low 100%RB



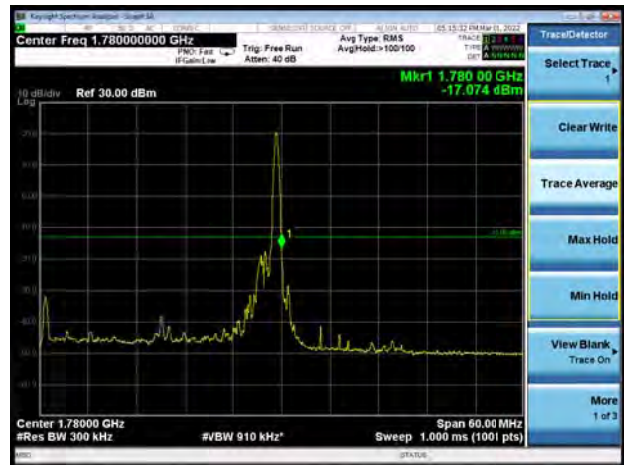
NR n66 P1/2 BPSK 30MHz CH-High 100%RB



NR n66 QPSK 30MHz CH-Low 1RB



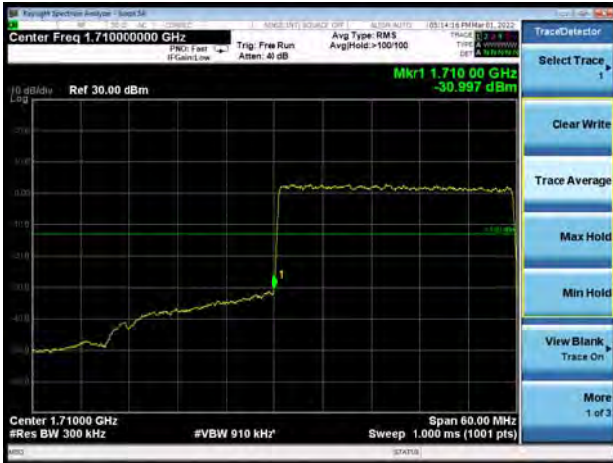
NR n66 QPSK 30MHz CH-High 1RB





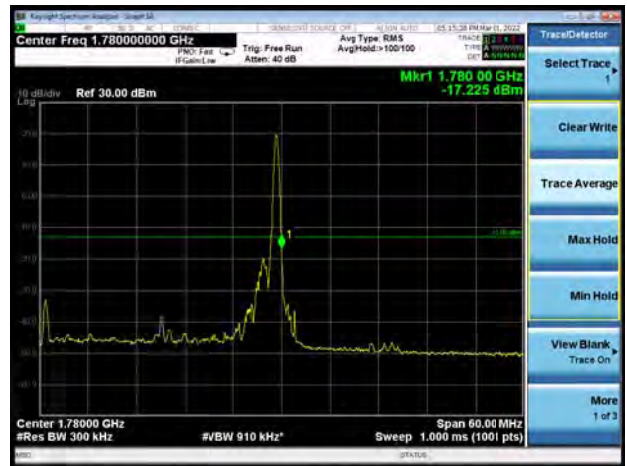
NR n66 QPSK 30MHz CH-Low 100%RB

NR n66 QPSK 30MHz CH-High 100%RB



NR n66 16QAM 30MHz CH-Low 1RB

NR n66 16QAM 30MHz CH-High 1RB



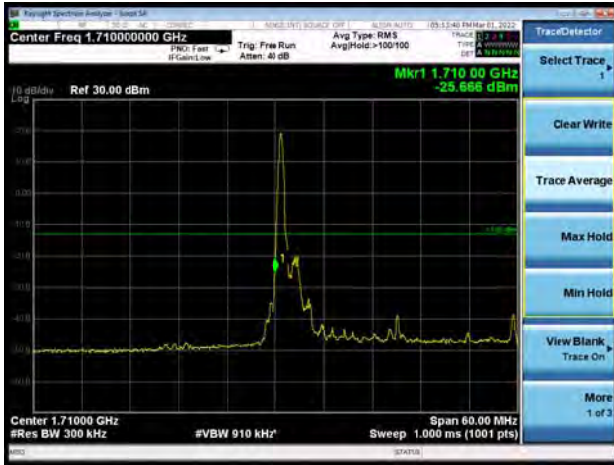
NR n66 16QAM 30MHz CH-Low 100%RB

NR n66 16QAM 30MHz CH-High 100%RB

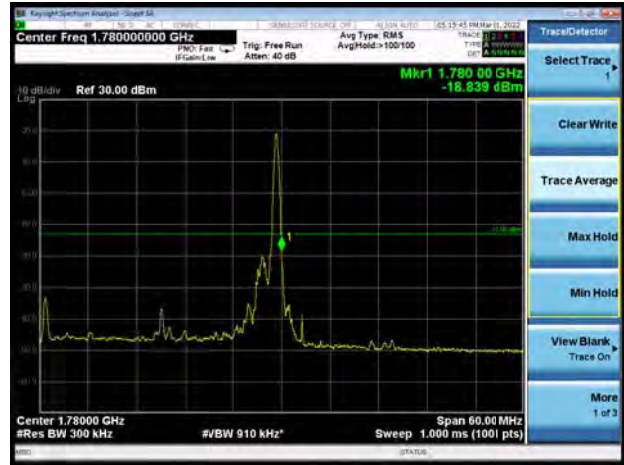




NR n n66 64QAM 30MHz CH-Low 1RB



NR n66 1 64QAM 30MHz CH-High 1RB



NR n66 64QAM 30MHz CH-Low 100%RB



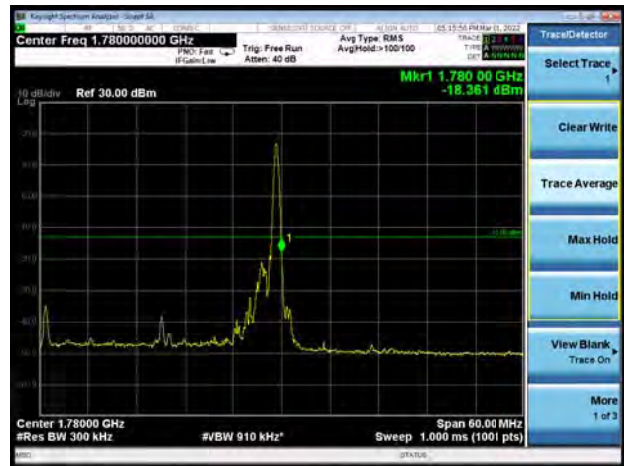
NR n66 64QAM 30MHz CH-High 100%RB



NR n66 256QAM 30MHz CH-Low 1RB



NR n66 256QAM 30MHz CH-High 1RB





NR n66 256QAM 30MHz CH-Low 100%RB



NR n66 256QAM 30MHz CH-High 100%RB



DC_5A_n66A P1/2 BPSK 30MHz CH-Low 1RB



DC_5A_n66A P1/2 BPSK 30MHz CH-High 1RB



DC_5A_n66A P1/2 BPSK 30MHz CH-Low 100%RB



DC_5A_n66A P1/2 BPSK 30MHz CH-High 100%RB





DC_5A_n66A QPSK 30MHz CH-Low 1RB



DC_5A_n66A QPSK 30MHz CH-High 1RB



DC_5A_n66A QPSK 30MHz CH-Low 100%RB



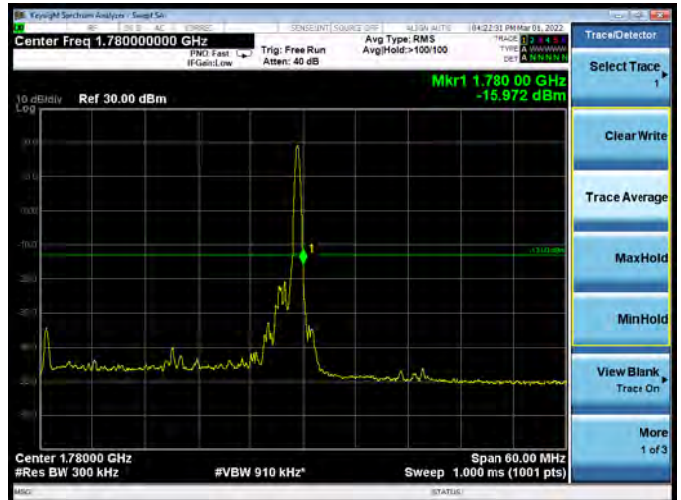
DC_5A_n66A QPSK 30MHz CH-High 100%RB



DC_5A_n66A 16QAM 30MHz CH-Low 1RB



DC_5A_n66A 16QAM 30MHz CH-High 1RB





DC_5A_n66A 16QAM 30MHz CH-Low 100%RB



DC_5A_n66A 16QAM 30MHz CH-High 100%RB



DC_5A_n66A 64QAM 30MHz CH-Low 1RB



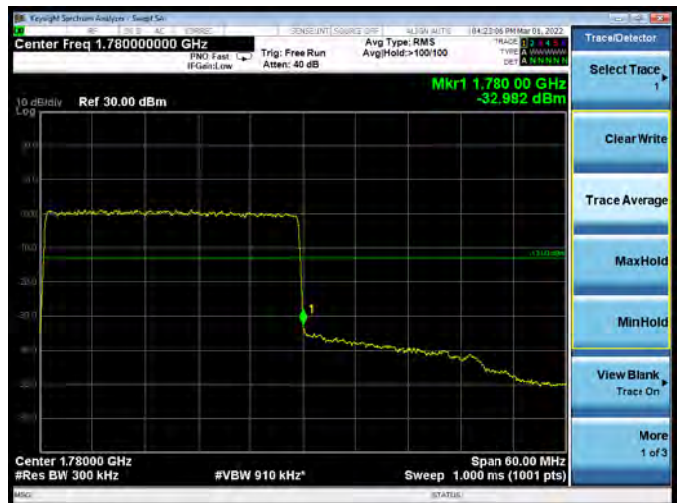
DC_5A_n66A 64QAM 30MHz CH-High 1RB



DC_5A_n66A 64QAM 30MHz CH-Low 100%RB



DC_5A_n66A 64QAM 30MHz CH-High 100%RB

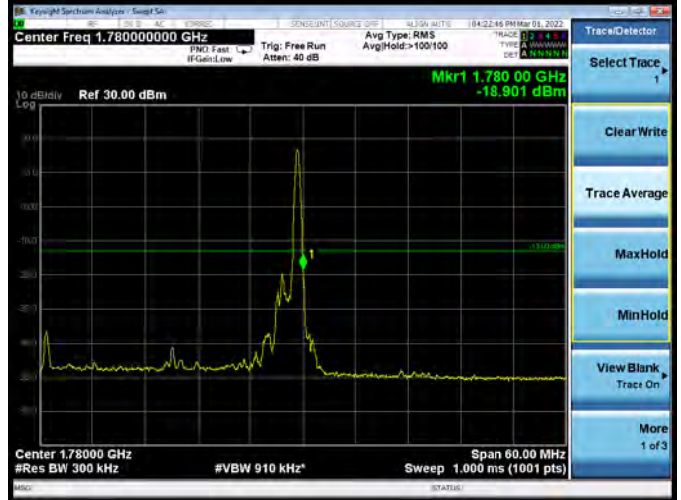




DC_5A_n66A 256QAM 30MHz CH-Low 1RB



DC_5A_n66A 256QAM 30MHz CH-High 1RB



DC_5A_n66A 256QAM 30MHz CH-Low 100%RB

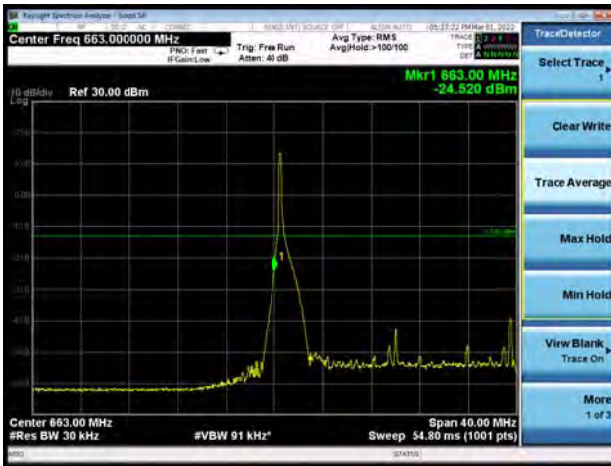


DC_5A_n66A 256QAM 30MHz CH-High 100%RB

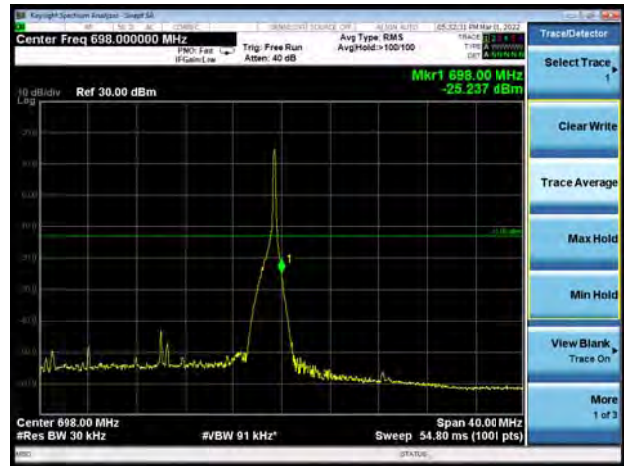




NR n71 P1/2 BPSK 20MHz CH-Low 1RB



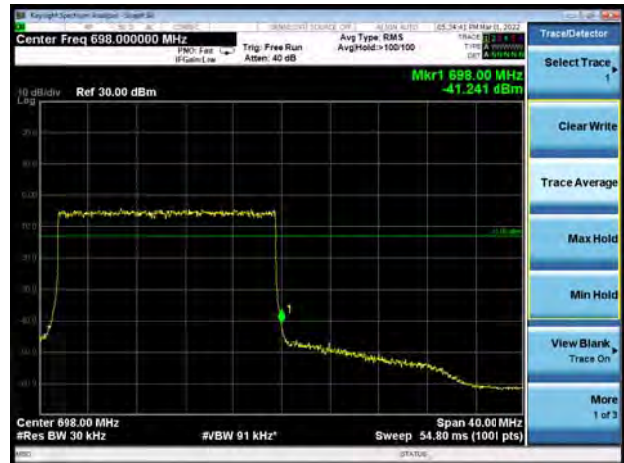
NR n71 P1/2 BPSK 20MHz CH-High 1RB



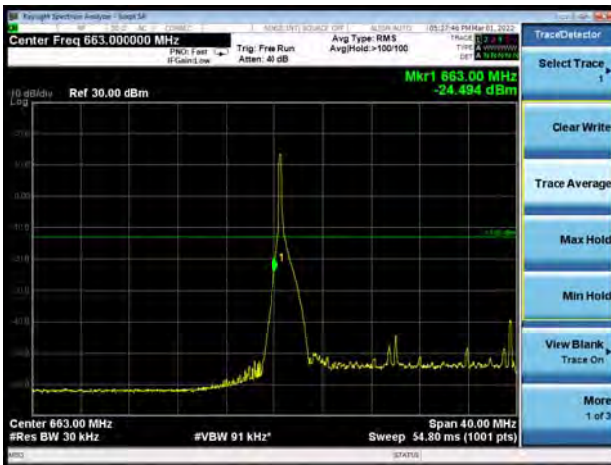
NR n71 P1/2 BPSK 20MHz CH-Low 100%RB



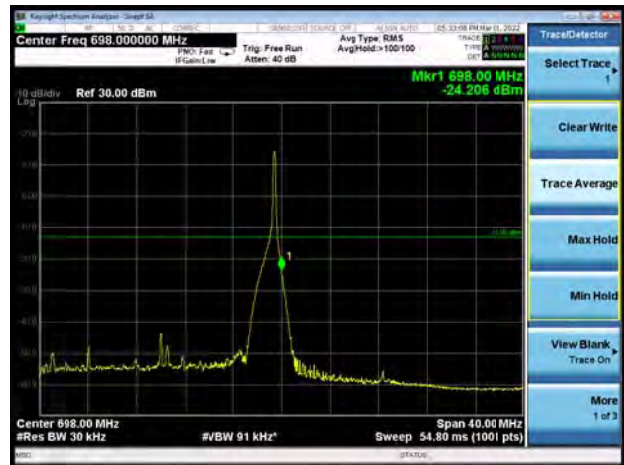
NR n71 P1/2 BPSK 20MHz CH-High 100%RB



NR n71 QPSK 20MHz CH-Low 1RB



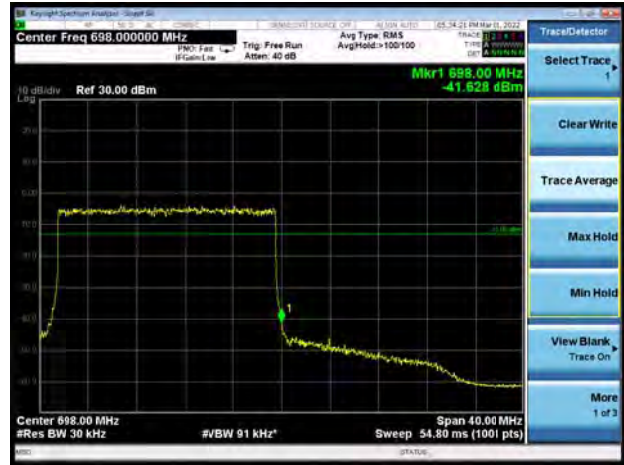
NR n71 QPSK 20MHz CH-High 1RB





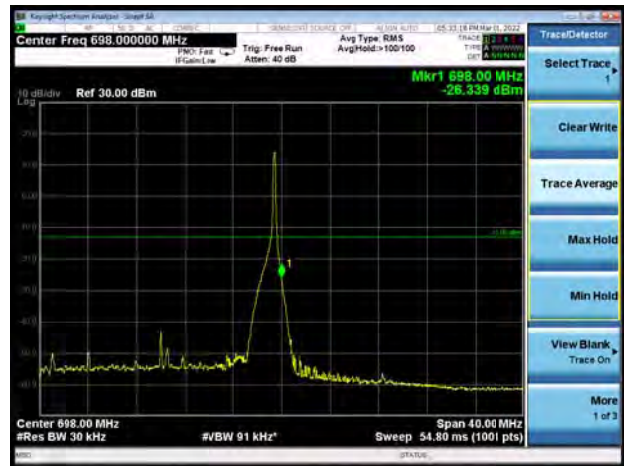
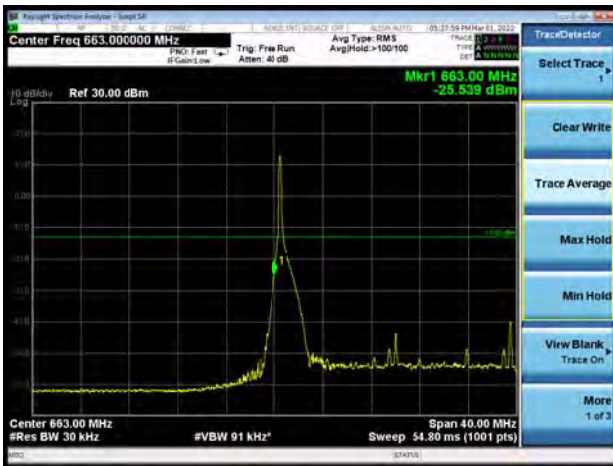
NR n71 QPSK 20MHz CH-Low 100%RB

NR n71 QPSK 20MHz CH-High 100%RB



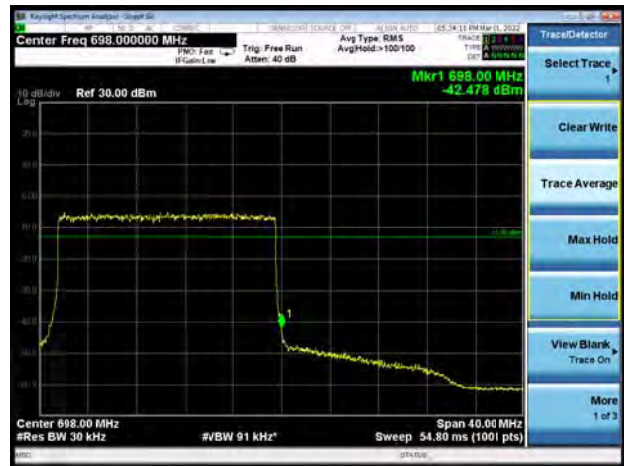
NR n71 16QAM 20MHz CH-Low 1RB

NR n71 16QAM 20MHz CH-High 1RB



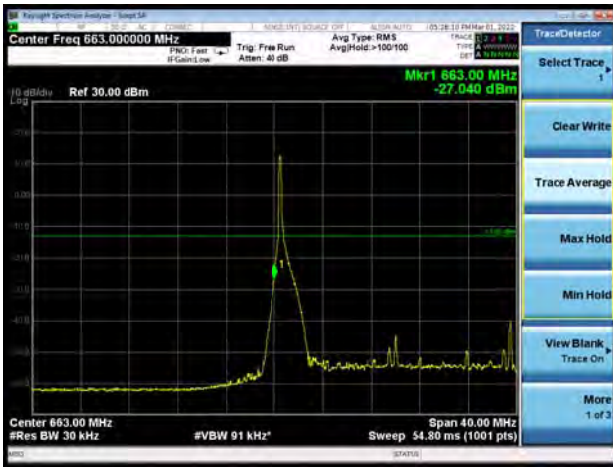
NR n71 16QAM 20MHz CH-Low 100%RB

NR n71 16QAM 20MHz CH-High 100%RB

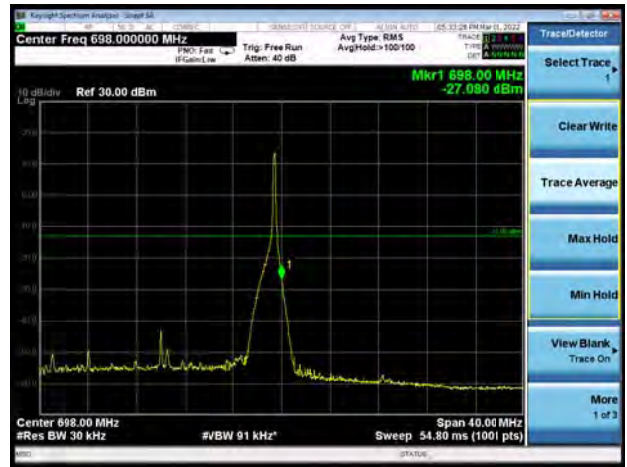




NR n71 64QAM 20MHz CH-Low 1RB



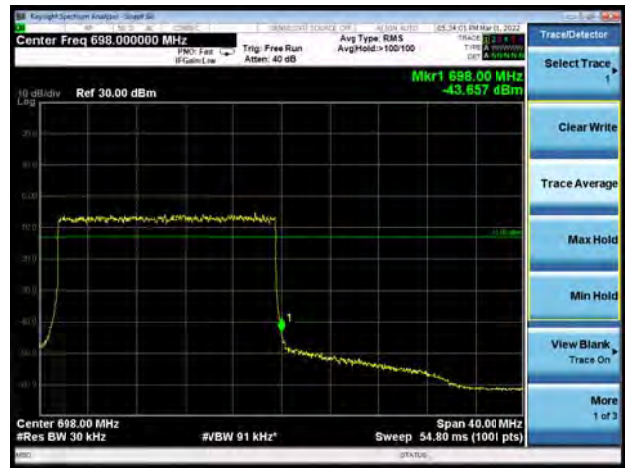
NR n71 64QAM 20MHz CH-High 1RB



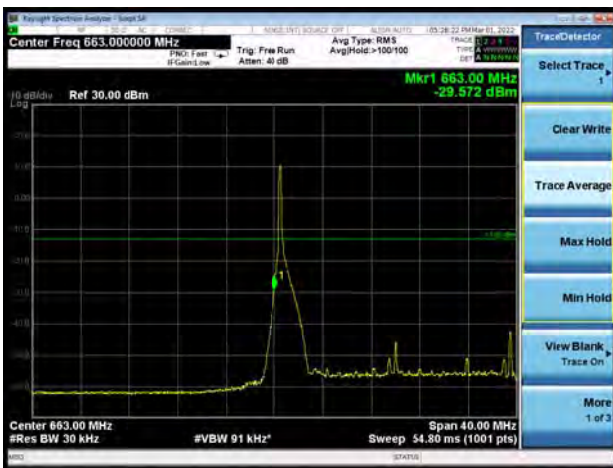
NR n71 64QAM 20MHz CH-Low 100%RB



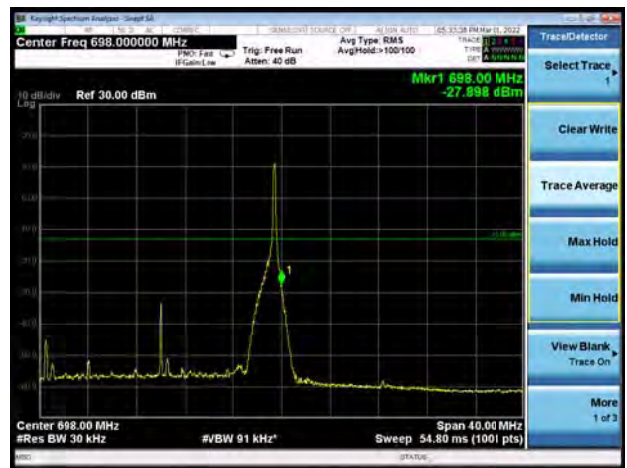
NR n71 64QAM 20MHz CH-High 100%RB



NR n71 256QAM 20MHz CH-Low 1RB



NR n71 256QAM 20MHz CH-High 1RB

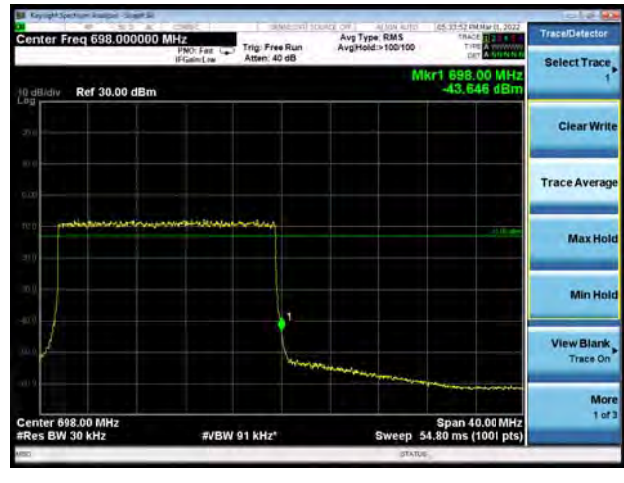




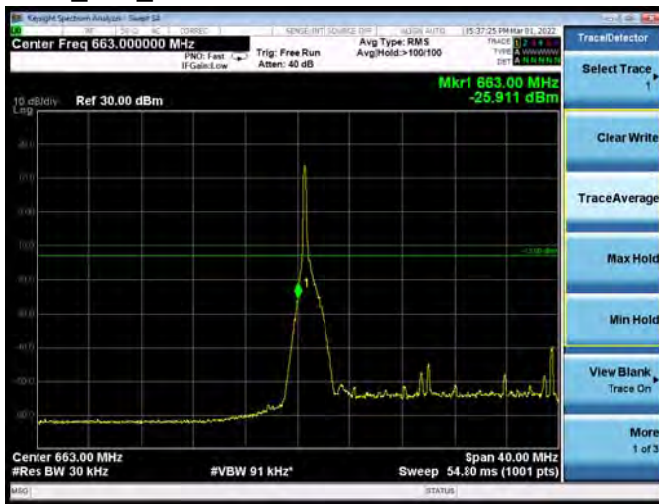
NR n71 256QAM 20MHz CH-Low 100%RB



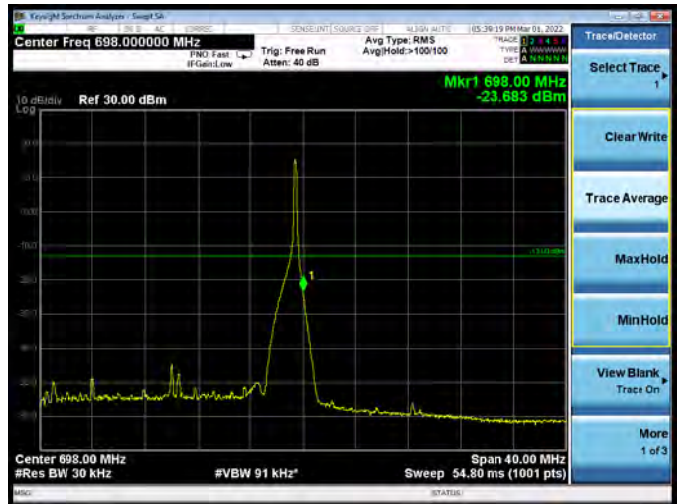
NR n71 256QAM 20MHz CH-High 100%RB



DC_66A_n71A P1/2 BPSK 20MHz CH-Low 1RB



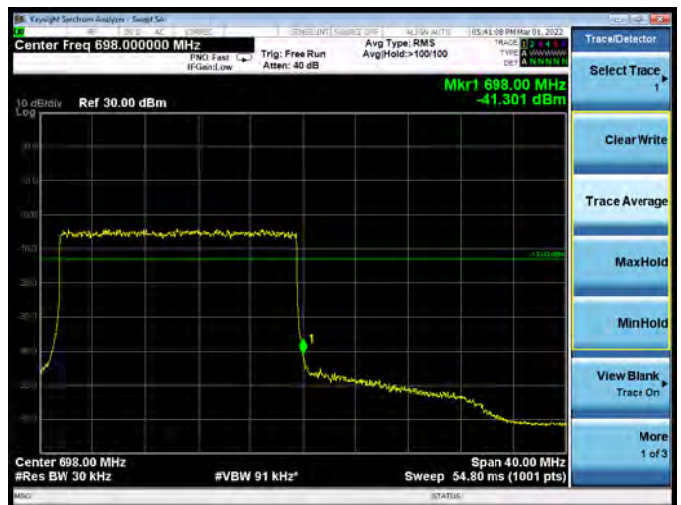
DC_66A_n71A P1/2 BPSK 20MHz CH-High 1RB



DC_66A_n71A P1/2 BPSK 20MHz CH-Low 100%RB

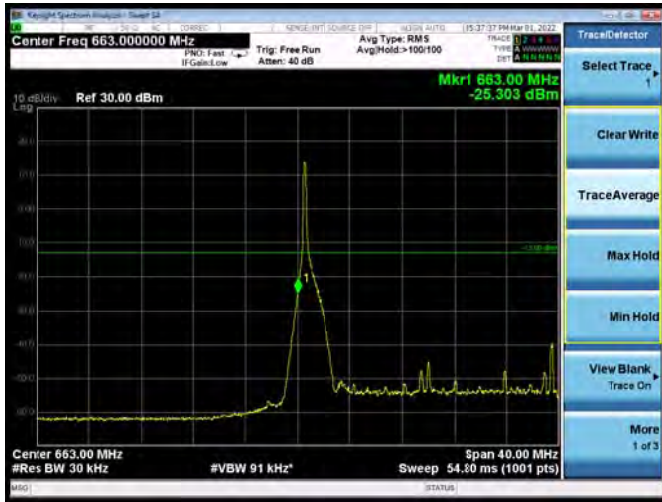


DC_66A_n71A P1/2 BPSK 20MHz CH-High 100%RB

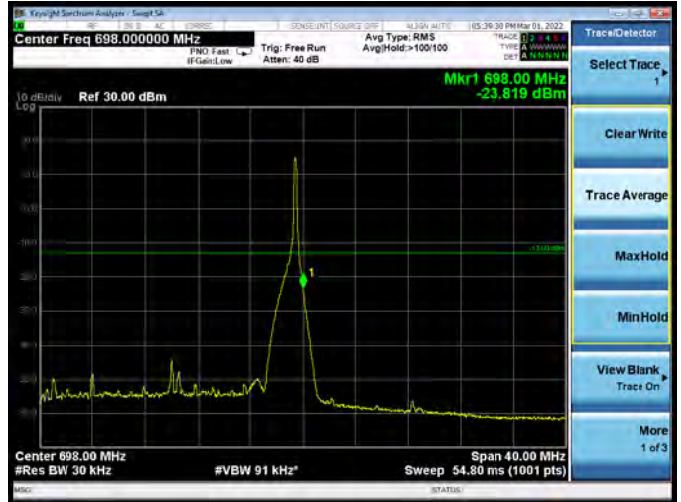




DC_66A_n71A QPSK 20MHz CH-Low 1RB



DC_66A_n71A QPSK 20MHz CH-High 1RB



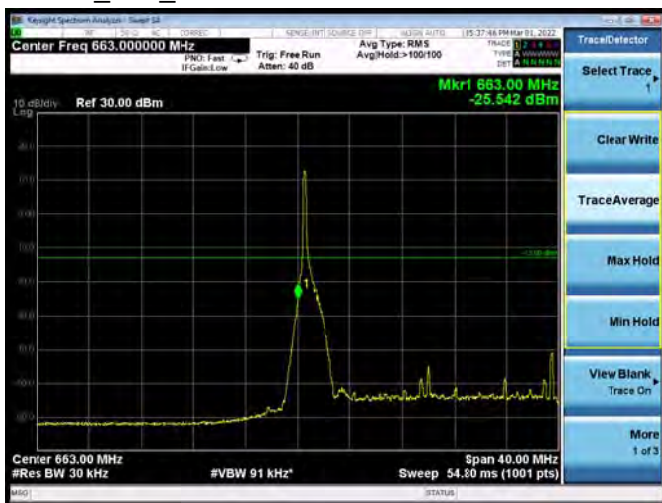
DC_66A_n71A QPSK 20MHz CH-Low 100%RB



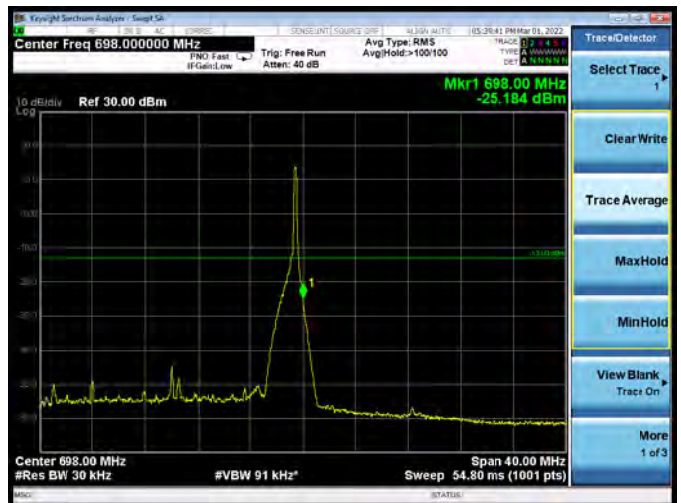
DC_66A_n71A QPSK 20MHz CH-High 100%RB



DC_66A_n71A 16QAM 20MHz CH-Low 1RB



DC_66A_n71A 16QAM 20MHz CH-High 1RB

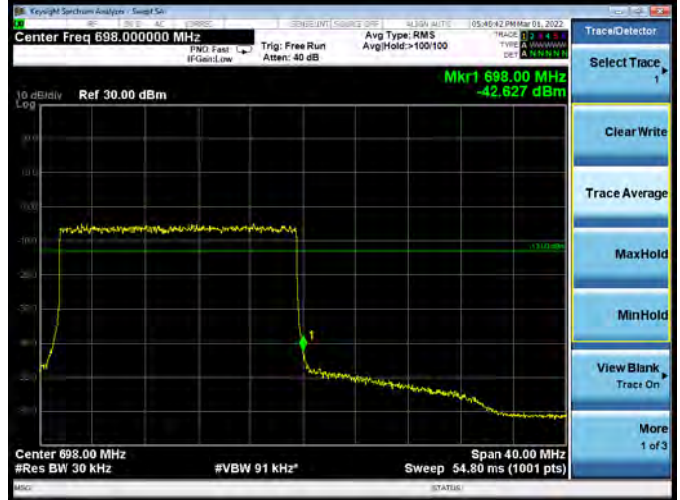




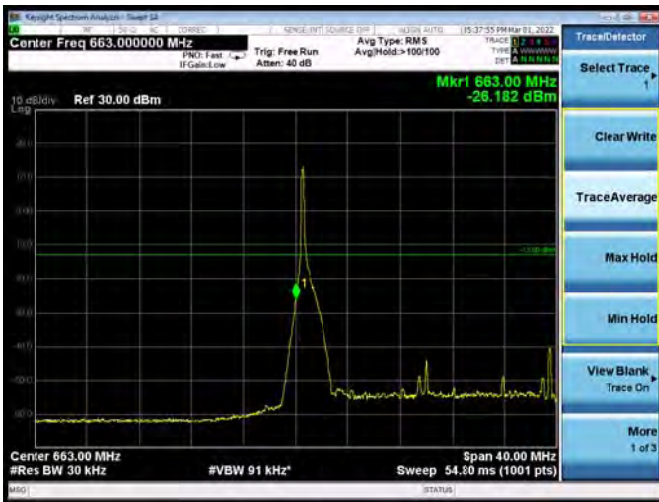
DC_66A_n71A 16QAM 20MHz CH-Low 100%RB



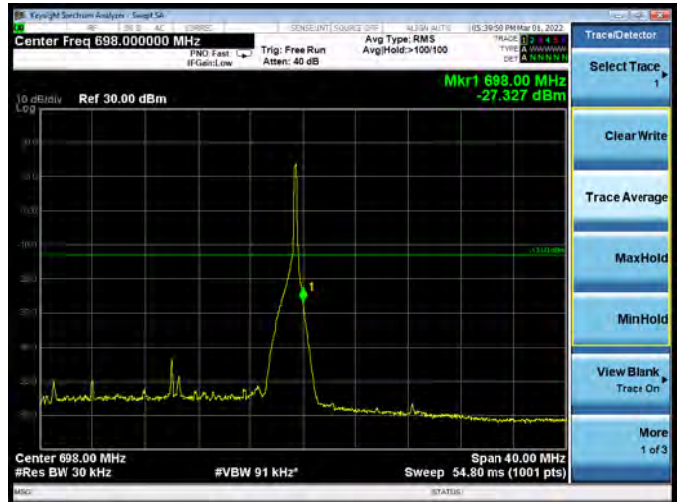
DC_66A_n71A 16QAM 20MHz CH-High 100%RB



DC_66A_n71A 64QAM 20MHz CH-Low 1RB



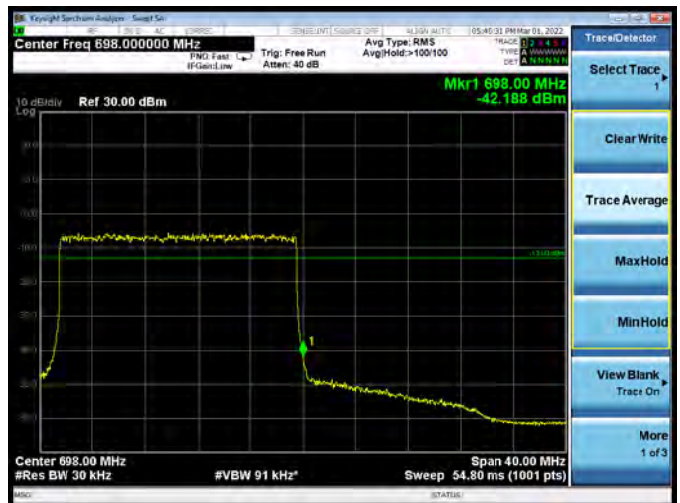
DC_66A_n71A 64QAM 20MHz CH-High 1RB



DC_66A_n71A 64QAM 20MHz CH-Low 100%RB

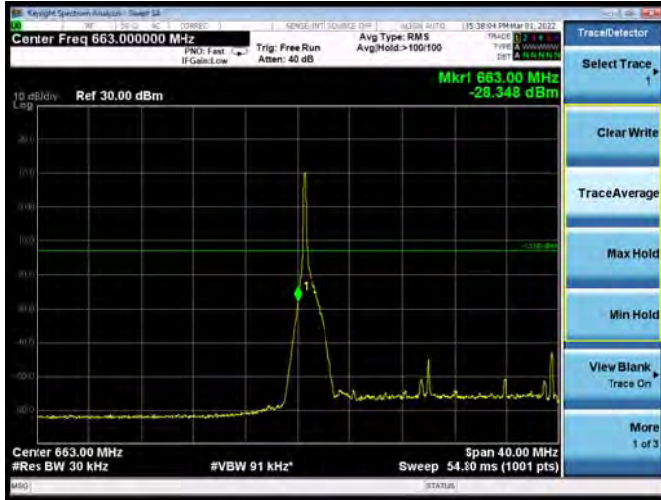


DC_66A_n71A 64QAM 20MHz CH-High 100%RB

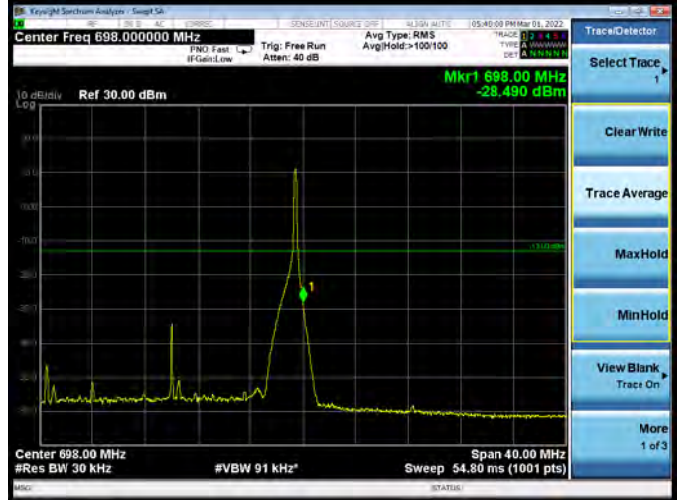




DC_66A_n71A 256QAM 20MHz CH-Low 1RB



DC_66A_n71A 256QAM 20MHz CH-High 1RB



DC_66A_n71A 256QAM 20MHz CH-Low 100%RB



DC_66A_n71A 256QAM 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	26.06	22.81	3.25	≤13	PASS
	1413	1732.6	26.80	23.50	3.30	≤13	PASS
	1513	1752.6	26.99	23.73	3.26	≤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	28.48	22.20	6.28	≤13	PASS
		20175	1732.5	28.63	22.25	6.38	≤13	PASS
		20393	1754.3	28.67	22.25	6.42	≤13	PASS
	3	19965	1711.5	28.41	22.18	6.23	≤13	PASS
		20175	1732.5	28.58	22.19	6.39	≤13	PASS
		20385	1753.5	28.67	22.23	6.44	≤13	PASS
	5	19975	1712.5	28.51	22.20	6.31	≤13	PASS
		20175	1732.5	28.73	22.23	6.50	≤13	PASS
		20375	1752.5	28.76	22.30	6.46	≤13	PASS
	10	20000	1715	28.36	22.18	6.18	≤13	PASS
		20175	1732.5	28.53	22.24	6.29	≤13	PASS
		20350	1750	28.55	22.23	6.32	≤13	PASS
	15	20025	1717.5	28.70	22.16	6.54	≤13	PASS
		20175	1732.5	28.85	22.22	6.63	≤13	PASS
		20325	1747.5	28.88	22.24	6.64	≤13	PASS
	20	20050	1720	28.23	22.21	6.02	≤13	PASS
		20175	1732.5	28.29	22.22	6.07	≤13	PASS
		20300	1745	28.28	22.23	6.05	≤13	PASS
16QAM	1.4	19957	1710.7	28.16	21.17	6.99	≤13	PASS
		20175	1732.5	28.27	21.21	7.06	≤13	PASS
		20393	1754.3	28.63	21.30	7.33	≤13	PASS
	3	19965	1711.5	28.19	21.19	7.00	≤13	PASS
		20175	1732.5	28.28	21.20	7.08	≤13	PASS
		20385	1753.5	28.44	21.24	7.20	≤13	PASS
	5	19975	1712.5	28.05	21.20	6.85	≤13	PASS
		20175	1732.5	28.26	21.23	7.03	≤13	PASS
		20375	1752.5	28.41	21.28	7.13	≤13	PASS
	10	20000	1715	28.01	21.17	6.84	≤13	PASS



		20175	1732.5	28.23	21.22	7.01	≤13	PASS
		20350	1750	28.24	21.23	7.01	≤13	PASS
		20025	1717.5	28.03	21.18	6.85	≤13	PASS
	15	20175	1732.5	28.16	21.21	6.95	≤13	PASS
		20325	1747.5	28.20	21.23	6.97	≤13	PASS
		20050	1720	27.93	21.20	6.73	≤13	PASS
	20	20175	1732.5	27.96	21.18	6.78	≤13	PASS
		20300	1745	27.99	21.19	6.80	≤13	PASS
		19957	1710.7	27.67	20.64	7.03	≤13	PASS
64QAM	1.4	20175	1732.5	27.55	20.64	6.91	≤13	PASS
		20393	1754.3	27.91	20.71	7.20	≤13	PASS
		19965	1711.5	27.75	20.64	7.11	≤13	PASS
	3	20175	1732.5	27.71	20.64	7.07	≤13	PASS
		20385	1753.5	27.88	20.70	7.18	≤13	PASS
		19975	1712.5	27.64	20.68	6.96	≤13	PASS
	5	20175	1732.5	27.76	20.71	7.05	≤13	PASS
		20375	1752.5	27.75	20.75	7.00	≤13	PASS
		20000	1715	27.53	20.66	6.87	≤13	PASS
	10	20175	1732.5	27.74	20.69	7.05	≤13	PASS
		20350	1750	27.66	20.70	6.96	≤13	PASS
		20025	1717.5	27.49	20.63	6.86	≤13	PASS
	15	20175	1732.5	27.61	20.64	6.97	≤13	PASS
		20325	1747.5	27.60	20.68	6.92	≤13	PASS
		20050	1720	27.29	20.61	6.68	≤13	PASS
	20	20175	1732.5	27.49	20.67	6.82	≤13	PASS
		20300	1745	27.48	20.69	6.79	≤13	PASS

LTE Band 12								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	23017	699.7	27.58	22.31	5.27	≤13	PASS
		23095	707.5	27.73	22.39	5.34	≤13	PASS
		23173	715.3	28.00	22.32	5.68	≤13	PASS
	3	23025	700.5	27.68	22.29	5.39	≤13	PASS
		23095	707.5	27.62	22.29	5.33	≤13	PASS
		23165	714.5	28.16	22.33	5.83	≤13	PASS
	5	23035	701.5	28.01	22.38	5.63	≤13	PASS
		23095	707.5	27.64	22.24	5.40	≤13	PASS
		23155	713.5	28.14	22.45	5.69	≤13	PASS
	10	23060	704	28.00	22.52	5.48	≤13	PASS



		23095	707.5	27.37	22.12	5.25	≤13	PASS
		23130	711	28.09	22.48	5.61	≤13	PASS
16QAM	1.4	23017	699.7	27.40	21.28	6.12	≤13	PASS
		23095	707.5	27.48	21.38	6.10	≤13	PASS
		23173	715.3	27.91	21.35	6.56	≤13	PASS
	3	23025	700.5	27.51	21.28	6.23	≤13	PASS
		23095	707.5	27.50	21.28	6.22	≤13	PASS
		23165	714.5	27.96	21.34	6.62	≤13	PASS
	5	23035	701.5	27.64	21.36	6.28	≤13	PASS
		23095	707.5	27.37	21.23	6.14	≤13	PASS
		23155	713.5	27.88	21.46	6.42	≤13	PASS
	10	23060	704	27.77	21.49	6.28	≤13	PASS
		23095	707.5	27.15	21.08	6.07	≤13	PASS
		23130	711	27.81	21.46	6.35	≤13	PASS
64QAM	1.4	23017	699.7	26.78	20.74	6.04	≤13	PASS
		23095	707.5	27.02	20.84	6.18	≤13	PASS
		23173	715.3	27.54	20.86	6.68	≤13	PASS
	3	23025	700.5	27.00	20.79	6.21	≤13	PASS
		23095	707.5	27.06	20.79	6.27	≤13	PASS
		23165	714.5	27.53	20.85	6.68	≤13	PASS
	5	23035	701.5	27.21	20.87	6.34	≤13	PASS
		23095	707.5	26.94	20.74	6.20	≤13	PASS
		23155	713.5	27.46	20.98	6.48	≤13	PASS
	10	23060	704	27.30	20.99	6.31	≤13	PASS
		23095	707.5	26.74	20.59	6.15	≤13	PASS
		23130	711	27.18	20.94	6.24	≤13	PASS

LTE Band 41								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	39675	2498.5	29.59	20.25	9.34	≤13	PASS
		40620	2593	29.72	20.54	9.18	≤13	PASS
		41565	2687.5	29.85	20.78	9.07	≤13	PASS
	10	39700	2501	29.49	19.68	9.81	≤13	PASS
		40620	2593	29.65	20.41	9.24	≤13	PASS
		41540	2685	29.32	16.96	12.36	≤13	PASS
	15	39725	2503.5	29.86	20.15	9.71	≤13	PASS
		40620	2593	29.93	20.26	9.67	≤13	PASS



	20	41515	2682.5	30.01	19.58	10.43	≤13	PASS
		39750	2506	29.26	18.06	11.20	≤13	PASS
		40620	2593	29.58	20.24	9.34	≤13	PASS
		41490	2680	29.56	18.81	10.75	≤13	PASS
16QAM	5	39675	2498.5	30.13	21.09	9.04	≤13	PASS
		40620	2593	30.16	20.72	9.44	≤13	PASS
		41565	2687.5	30.32	20.30	10.02	≤13	PASS
	10	39700	2501	30.17	20.88	9.29	≤13	PASS
		40620	2593	30.26	20.80	9.46	≤13	PASS
		41540	2685	30.34	20.57	9.77	≤13	PASS
	15	39725	2503.5	30.35	20.70	9.65	≤13	PASS
		40620	2593	30.43	21.13	9.30	≤13	PASS
		41515	2682.5	30.45	19.82	10.63	≤13	PASS
	20	39750	2506	30.15	20.45	9.70	≤13	PASS
		40620	2593	30.22	19.62	10.60	≤13	PASS
		41490	2680	30.22	19.72	10.50	≤13	PASS
64QAM	5	39675	2498.5	29.66	21.13	8.53	≤13	PASS
		40620	2593	29.51	18.53	10.98	≤13	PASS
		41565	2687.5	29.77	19.49	10.28	≤13	PASS
	10	39700	2501	29.49	18.93	10.56	≤13	PASS
		40620	2593	29.56	18.87	10.69	≤13	PASS
		41540	2685	29.73	19.34	10.39	≤13	PASS
	15	39725	2503.5	29.76	20.34	9.42	≤13	PASS
		40620	2593	29.87	20.37	9.50	≤13	PASS
		41515	2682.5	30.01	20.45	9.56	≤13	PASS
	20	39750	2506	29.48	19.31	10.17	≤13	PASS
		40620	2593	29.71	20.29	9.42	≤13	PASS
		41490	2680	29.67	18.98	10.69	≤13	PASS

LTE Band 66								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	131979	1710.7	28.61	22.32	6.29	≤13	PASS
		132322	1745	28.61	22.36	6.25	≤13	PASS
		132665	1779.3	28.81	22.48	6.33	≤13	PASS



	3	131987	1711.5	28.53	22.28	6.25	≤13	PASS
		132322	1745	28.62	22.28	6.34	≤13	PASS
		132657	1778.5	28.87	22.45	6.42	≤13	PASS
	5	131997	1712.5	28.64	22.33	6.31	≤13	PASS
		132322	1745	28.66	22.32	6.34	≤13	PASS
		132647	1777.5	28.95	22.51	6.44	≤13	PASS
	10	132022	1715	28.46	22.31	6.15	≤13	PASS
		132322	1745	28.55	22.34	6.21	≤13	PASS
		132622	1775	28.85	22.54	6.31	≤13	PASS
	15	132047	1717.5	28.84	22.30	6.54	≤13	PASS
		132322	1745	28.93	22.36	6.57	≤13	PASS
		132597	1772.5	28.97	22.41	6.56	≤13	PASS
20	132072	1720	28.32	22.29	6.03	≤13	PASS	
	132322	1745	28.49	22.35	6.14	≤13	PASS	
	132572	1770	28.35	22.33	6.02	≤13	PASS	
16QAM	1.4	131979	1710.7	28.21	21.26	6.95	≤13	PASS
		132322	1745	28.18	21.33	6.85	≤13	PASS
		132665	1779.3	28.59	21.47	7.12	≤13	PASS
	3	131987	1711.5	28.36	21.31	7.05	≤13	PASS
		132322	1745	28.38	21.27	7.11	≤13	PASS
		132657	1778.5	28.61	21.40	7.21	≤13	PASS
	5	131997	1712.5	28.20	21.31	6.89	≤13	PASS
		132322	1745	28.25	21.30	6.95	≤13	PASS
		132647	1777.5	28.70	21.49	7.21	≤13	PASS
	10	132022	1715	28.21	21.31	6.90	≤13	PASS
		132322	1745	28.28	21.35	6.93	≤13	PASS
		132622	1775	28.48	21.47	7.01	≤13	PASS
	15	132047	1717.5	28.17	21.27	6.90	≤13	PASS
		132322	1745	28.22	21.31	6.91	≤13	PASS
		132597	1772.5	28.34	21.35	6.99	≤13	PASS
	20	132072	1720	28.02	21.25	6.77	≤13	PASS
		132322	1745	28.11	21.32	6.79	≤13	PASS
		132572	1770	28.14	21.32	6.82	≤13	PASS
64QAM	1.4	131979	1710.7	27.89	20.75	7.14	≤13	PASS
		132322	1745	27.77	20.82	6.95	≤13	PASS
		132665	1779.3	28.13	20.88	7.25	≤13	PASS
	3	131987	1711.5	27.85	20.72	7.13	≤13	PASS
		132322	1745	27.74	20.73	7.01	≤13	PASS
		132657	1778.5	28.06	20.87	7.19	≤13	PASS
	5	131997	1712.5	27.73	20.75	6.98	≤13	PASS



	10	132322	1745	27.80	20.79	7.01	≤13	PASS	
		132647	1777.5	27.88	20.88	7.00	≤13	PASS	
		132022	1715	27.61	20.72	6.89	≤13	PASS	
	15	132322	1745	27.82	20.82	7.00	≤13	PASS	
		132622	1775	27.88	20.89	6.99	≤13	PASS	
		132047	1717.5	27.48	20.66	6.82	≤13	PASS	
	20	132322	1745	27.75	20.78	6.97	≤13	PASS	
		132597	1772.5	27.78	20.80	6.98	≤13	PASS	
		132072	1720	27.35	20.65	6.70	≤13	PASS	
			132322	1745	27.57	20.79	6.78	≤13	PASS
			132572	1770	27.55	20.76	6.79	≤13	PASS

LTE Band 71								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	133147	665.5	27.85	22.62	5.23	≤13	PASS
		133297	680.5	27.94	22.54	5.40	≤13	PASS
		133447	695.5	27.52	22.56	4.96	≤13	PASS
	10	133172	668	27.88	22.57	5.31	≤13	PASS
		133297	680.5	27.93	22.56	5.37	≤13	PASS
		133422	693	27.66	22.58	5.08	≤13	PASS
	15	133197	670.5	28.21	22.53	5.68	≤13	PASS
		133297	680.5	28.19	22.48	5.71	≤13	PASS
		133397	690.5	27.98	22.51	5.47	≤13	PASS
	20	133222	673	27.99	22.55	5.44	≤13	PASS
		133322	683	27.96	22.48	5.48	≤13	PASS
		133372	688	27.90	22.53	5.37	≤13	PASS
16QAM	5	133147	665.5	27.56	21.61	5.95	≤13	PASS
		133297	680.5	27.63	21.52	6.11	≤13	PASS
		133447	695.5	27.30	21.56	5.74	≤13	PASS
	10	133172	668	27.61	21.55	6.06	≤13	PASS
		133297	680.5	27.72	21.53	6.19	≤13	PASS
		133422	693	27.42	21.52	5.90	≤13	PASS
	15	133197	670.5	27.71	21.50	6.21	≤13	PASS
		133297	680.5	27.73	21.47	6.26	≤13	PASS
		133397	690.5	27.61	21.53	6.08	≤13	PASS
	20	133222	673	27.72	21.53	6.19	≤13	PASS
		133322	683	27.73	21.53	6.20	≤13	PASS
		133372	688	27.66	21.52	6.14	≤13	PASS
64QAM	5	133147	665.5	27.10	21.13	5.97	≤13	PASS



		133297	680.5	27.17	21.03	6.14	≤13	PASS
		133447	695.5	26.87	21.05	5.82	≤13	PASS
	10	133172	668	27.12	21.04	6.08	≤13	PASS
		133297	680.5	27.05	21.00	6.05	≤13	PASS
		133422	693	26.88	21.02	5.86	≤13	PASS
	15	133197	670.5	27.21	20.99	6.22	≤13	PASS
		133297	680.5	27.14	21.02	6.12	≤13	PASS
		133397	690.5	27.04	20.98	6.06	≤13	PASS
	20	133222	673	27.21	21.02	6.19	≤13	PASS
		133322	683	27.09	20.96	6.13	≤13	PASS
		133372	688	27.09	21.01	6.08	≤13	PASS

CA_41C										
Bandwidth	PCC		SCC1		Modulation	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusion
	Channel	Frequency (MHz)	Channel	Frequency (MHz)		Peak (dBm)	Avg (dBm)	PAPR (dB)		
CA_41C_5MHz+20MHz_QPSK	40528	2583.8	40645	2595.5	QPSK	27.19	16.65	10.54	≤13	PASS
CA_41C_5MHz+20MHz_16QAM	40528	2583.8	40645	2595.5	16QAM	26.94	16.49	10.45	≤13	PASS
CA_41C_5MHz+20MHz_64QAM	40528	2583.8	40645	2595.5	64QAM	26.62	15.78	10.84	≤13	PASS
CA_41C_20MHz+5MHz_QPSK	40595	2590.5	40712	2602.2	QPSK	27.45	16.86	10.59	≤13	PASS
CA_41C_20MHz+5MHz_16QAM	40595	2590.5	40712	2602.2	16QAM	27.03	15.95	11.08	≤13	PASS
CA_41C_20MHz+5MHz_64QAM	40595	2590.5	40712	2602.2	64QAM	26.73	15.74	10.99	≤13	PASS
CA_41C_10MHz+20MHz_QPSK	40526	2583.6	40670	2598	QPSK	27.29	16.68	10.61	≤13	PASS
CA_41C_10MHz+20MHz_16QAM	40526	2583.6	40670	2598	16QAM	27.00	16.21	10.79	≤13	PASS
CA_41C_10MHz+20MHz_64QAM	40526	2583.6	40670	2598	64QAM	26.54	15.51	11.03	≤13	PASS
CA_41C_20MHz+10MHz_QPSK	40571	2588.1	40715	2602.5	QPSK	27.62	17.77	9.85	≤13	PASS
CA_41C_20MHz+10MHz_16QAM	40571	2588.1	40715	2602.5	16QAM	27.17	16.61	10.56	≤13	PASS
CA_41C_20MHz+10MHz_64QAM	40571	2588.1	40715	2602.5	64QAM	26.66	15.60	11.06	≤13	PASS
CA_41C_15MHz+15MHz_QPSK	40545	2585.5	40695	2600.5	QPSK	27.89	17.18	10.71	≤13	PASS
CA_41C_15MHz+15MHz_16QAM	40545	2585.5	40695	2600.5	16QAM	27.32	16.63	10.69	≤13	PASS
CA_41C_15MHz+15MHz_64QAM	40545	2585.5	40695	2600.5	64QAM	26.77	15.63	11.14	≤13	PASS
CA_41C_15MHz+20MHz_QPSK	40523	2583.3	40694	2600.4	QPSK	27.50	16.72	10.78	≤13	PASS
CA_41C_15MHz+20MHz_16QAM	40523	2583.3	40694	2600.4	16QAM	27.06	16.10	10.96	≤13	PASS
CA_41C_15MHz+20MHz_64QAM	40523	2583.3	40694	2600.4	64QAM	26.52	15.39	11.13	≤13	PASS
CA_41C_20MHz+15MHz_QPSK	40546	2585.6	40717	2602.7	QPSK	27.52	17.47	10.05	≤13	PASS
CA_41C_20MHz+15MHz_16QAM	40546	2585.6	40717	2602.7	16QAM	27.13	16.44	10.69	≤13	PASS
CA_41C_20MHz+15MHz_64QAM	40546	2585.6	40717	2602.7	64QAM	26.53	15.57	10.96	≤13	PASS
CA_41C_20MHz+20MHz_QPSK	40521	2583.1	40719	2602.9	QPSK	27.41	16.58	10.83	≤13	PASS
CA_41C_20MHz+20MHz_16QAM	40521	2583.1	40719	2602.9	16QAM	27.04	16.55	10.49	≤13	PASS
CA_41C_20MHz+20MHz_64QAM	40521	2583.1	40719	2602.9	64QAM	26.59	16.34	10.25	≤13	PASS



NR n41								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
30M	P1/2 BPSK	502200	2511	27.22	16.00	11.22	≤13	PASS
		518598	2592.99	27.71	16.59	11.12	≤13	PASS
		534996	2674.98	27.50	15.30	12.20	≤13	PASS
	QPSK	502200	2511	27.07	14.87	12.20	≤13	PASS
		518598	2592.99	27.62	15.77	11.85	≤13	PASS
		534996	2674.98	27.54	15.43	12.11	≤13	PASS
	16QAM	502200	2511	26.87	14.80	12.07	≤13	PASS
		518598	2592.99	27.32	15.01	12.31	≤13	PASS
		534996	2674.98	27.31	15.23	12.08	≤13	PASS
	64QAM	502200	2511	26.42	13.65	12.77	≤13	PASS
		518598	2592.99	27.00	14.92	12.08	≤13	PASS
		534996	2674.98	27.05	14.72	12.33	≤13	PASS
256QAM	502200	2511	24.81	12.41	12.40	≤13	PASS	
	518598	2592.99	25.28	13.07	12.21	≤13	PASS	
	534996	2674.98	25.21	12.89	12.32	≤13	PASS	

DC_66A_n41A									
Bandwidth (MHz)	Modulation(LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
30M	Band66-10MHz-1745 MHz-QPSK-1#0	P1/2 BPSK	502200	2511	27.34	16.46	10.88	≤13	PASS
			518598	2592.99	27.55	14.77	12.78	≤13	PASS
			534996	2674.98	27.57	15.38	12.19	≤13	PASS
		QPSK	502200	2511	27.26	15.87	11.39	≤13	PASS
			518598	2592.99	27.75	16.24	11.51	≤13	PASS
			534996	2674.98	27.70	16.42	11.28	≤13	PASS
		16QAM	502200	2511	26.79	13.94	12.85	≤13	PASS
			518598	2592.99	27.36	14.90	12.46	≤13	PASS
			534996	2674.98	27.24	14.52	12.72	≤13	PASS
		64QAM	502200	2511	26.58	14.04	12.54	≤13	PASS
			518598	2592.99	27.08	14.60	12.48	≤13	PASS
			534996	2674.98	27.09	14.81	12.28	≤13	PASS
		256QAM	502200	2511	24.87	12.75	12.12	≤13	PASS
			518598	2592.99	25.25	12.50	12.75	≤13	PASS
			534996	2674.98	25.11	12.48	12.63	≤13	PASS



NR n66								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
30M	P1/2 BPSK	345000	1725	27.62	21.85	5.77	≤13	PASS
		349000	1745	27.55	21.89	5.66	≤13	PASS
		353000	1765	27.56	21.94	5.62	≤13	PASS
	QPSK	345000	1725	27.62	21.85	5.77	≤13	PASS
		349000	1745	27.56	21.91	5.65	≤13	PASS
		353000	1765	27.57	21.95	5.62	≤13	PASS
	16QAM	345000	1725	27.46	20.82	6.64	≤13	PASS
		349000	1745	27.35	20.87	6.48	≤13	PASS
		353000	1765	27.36	20.92	6.44	≤13	PASS
	64QAM	345000	1725	27.20	20.35	6.85	≤13	PASS
		349000	1745	27.16	20.43	6.73	≤13	PASS
		353000	1765	27.10	20.45	6.65	≤13	PASS
	256QAM	345000	1725	25.38	18.45	6.93	≤13	PASS
		349000	1745	25.43	18.51	6.92	≤13	PASS
		353000	1765	25.33	18.55	6.78	≤13	PASS

DC_5A_n66A									
Bandwidth (MHz)	Modulation(LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
30M	Band5-10MHz-836.5 MHz-QPSK-1#0	P1/2 BPSK	345000	1725	27.64	21.68	5.96	≤13	PASS
			349000	1745	27.55	21.63	5.92	≤13	PASS
			353000	1765	27.52	21.62	5.90	≤13	PASS
		QPSK	345000	1725	27.62	21.58	6.04	≤13	PASS
			349000	1745	27.57	21.67	5.90	≤13	PASS
			353000	1765	27.53	21.50	6.03	≤13	PASS
		16QAM	345000	1725	27.32	20.54	6.78	≤13	PASS
			349000	1745	27.24	20.65	6.59	≤13	PASS
			353000	1765	27.24	20.68	6.56	≤13	PASS
		64QAM	345000	1725	27.07	19.89	7.18	≤13	PASS
			349000	1745	27.05	20.14	6.91	≤13	PASS
			353000	1765	26.97	20.17	6.80	≤13	PASS
		256QAM	345000	1725	25.15	18.22	6.93	≤13	PASS
			349000	1745	25.27	18.37	6.90	≤13	PASS
			353000	1765	25.11	18.28	6.83	≤13	PASS



NR n71								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	P1/2 BPSK	134600	673	27.31	21.62	5.69	≤13	PASS
		136100	680.5	27.49	21.88	5.61	≤13	PASS
		137600	688	27.62	22.17	5.45	≤13	PASS
	QPSK	134600	673	27.30	21.63	5.67	≤13	PASS
		136100	680.5	27.56	21.91	5.65	≤13	PASS
		137600	688	27.62	22.04	5.58	≤13	PASS
	16QAM	134600	673	26.89	20.62	6.27	≤13	PASS
		136100	680.5	27.17	20.90	6.27	≤13	PASS
		137600	688	27.26	21.01	6.25	≤13	PASS
	64QAM	134600	673	26.69	20.22	6.47	≤13	PASS
		136100	680.5	26.92	20.35	6.57	≤13	PASS
		137600	688	27.04	20.51	6.53	≤13	PASS
	256QAM	134600	673	24.69	18.21	6.48	≤13	PASS
		136100	680.5	24.92	18.31	6.61	≤13	PASS
		137600	688	25.14	18.73	6.41	≤13	PASS

DC_66A_n71A									
Bandwidth (MHz)	Modulation(LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	Band66-10MHz-1745 MHz-QPSK-1#0	P1/2 BPSK	134600	673	27.17	21.82	5.35	≤13	PASS
			136100	680.5	27.44	22.09	5.35	≤13	PASS
			137600	688	27.64	22.37	5.27	≤13	PASS
		QPSK	134600	673	27.19	21.84	5.35	≤13	PASS
			136100	680.5	27.45	22.11	5.34	≤13	PASS
			137600	688	27.66	22.39	5.27	≤13	PASS
		16QAM	134600	673	26.96	20.83	6.13	≤13	PASS
			136100	680.5	27.20	21.06	6.14	≤13	PASS
			137600	688	27.43	21.36	6.07	≤13	PASS
		64QAM	134600	673	26.80	20.34	6.46	≤13	PASS
			136100	680.5	27.02	20.57	6.45	≤13	PASS
			137600	688	27.22	20.86	6.36	≤13	PASS
		256QAM	134600	673	24.68	18.41	6.27	≤13	PASS
			136100	680.5	24.92	18.64	6.28	≤13	PASS
			137600	688	25.23	18.92	6.31	≤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	12.73	1.60	0.00735	0.00092	PASS
Extreme (60°C)		1.02	15.43	0.00059	0.00890	PASS
Extreme (50°C)		6.38	3.01	0.00368	0.00174	PASS
Extreme (40°C)		17.02	12.02	0.00982	0.00694	PASS
Extreme (30°C)		5.35	12.18	0.00309	0.00703	PASS
Extreme (20°C)		14.06	5.29	0.00811	0.00305	PASS
Extreme (10°C)		12.15	12.89	0.00702	0.00744	PASS
Extreme (0°C)		5.33	10.26	0.00307	0.00592	PASS
Extreme (-10°C)		3.29	7.73	0.00190	0.00446	PASS
Extreme (-20°C)		9.55	12.28	0.00551	0.00709	PASS
Extreme (-30°C)		12.01	16.72	0.00693	0.00965	PASS
25°C	LV	15.77	1.96	0.00910	0.00113	PASS
	HV	3.92	3.07	0.00226	0.00177	PASS

LTE Band 4								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	12.11	2.85	8.53	0.00699	0.00164	0.00492	PASS
Extreme (60°C)		4.47	10.74	12.97	0.00258	0.00620	0.00748	PASS
Extreme (50°C)		3.31	2.24	11.34	0.00191	0.00129	0.00654	PASS
Extreme (40°C)		2.73	3.19	15.53	0.00157	0.00184	0.00897	PASS
Extreme (30°C)		1.80	13.13	15.83	0.00104	0.00758	0.00913	PASS
Extreme (20°C)		11.17	15.41	16.51	0.00645	0.00890	0.00953	PASS
Extreme (10°C)		15.15	4.32	1.68	0.00874	0.00250	0.00097	PASS
Extreme (0°C)		12.50	10.44	6.09	0.00721	0.00602	0.00351	PASS
Extreme (-10°C)		8.91	3.90	7.40	0.00514	0.00225	0.00427	PASS
Extreme (-20°C)		14.26	1.90	2.82	0.00823	0.00110	0.00163	PASS
Extreme (-30°C)		5.77	12.40	5.73	0.00333	0.00716	0.00331	PASS
25°C	LV	14.88	10.47	5.66	0.00859	0.00604	0.00327	PASS
	HV	17.23	7.61	16.82	0.00994	0.00439	0.00971	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							



Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.73	9.62	13.76	0.01024	0.00555	0.00794	PASS
Extreme (60°C)		14.68	1.14	3.41	0.00847	0.00066	0.00197	PASS
Extreme (50°C)		3.58	1.66	15.54	0.00207	0.00096	0.00897	PASS
Extreme (40°C)		12.12	1.16	14.05	0.00699	0.00067	0.00811	PASS
Extreme (30°C)		16.89	5.03	9.42	0.00975	0.00291	0.00544	PASS
Extreme (20°C)		3.60	14.20	3.82	0.00208	0.00820	0.00221	PASS
Extreme (10°C)		4.78	16.02	10.80	0.00276	0.00924	0.00623	PASS
Extreme (0°C)		8.53	3.03	13.75	0.00492	0.00175	0.00794	PASS
Extreme (-10°C)		5.87	7.36	11.93	0.00339	0.00425	0.00689	PASS
Extreme (-20°C)		9.20	13.82	4.77	0.00531	0.00797	0.00275	PASS
Extreme (-30°C)		12.76	14.47	11.40	0.00737	0.00835	0.00658	PASS
25°C		LV	17.07	17.42	4.10	0.00985	0.01005	0.00237
	HV	13.66	11.30	6.27	0.00788	0.00652	0.00362	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.88	2.26	12.34	0.00340	0.00130	0.00712	PASS
Extreme (60°C)		6.17	2.75	2.25	0.00356	0.00159	0.00130	PASS
Extreme (50°C)		11.95	15.90	17.71	0.00690	0.00918	0.01022	PASS
Extreme (40°C)		6.25	17.90	11.37	0.00361	0.01033	0.00656	PASS
Extreme (30°C)		12.17	16.05	16.61	0.00702	0.00926	0.00959	PASS
Extreme (20°C)		14.38	13.77	17.73	0.00830	0.00795	0.01024	PASS
Extreme (10°C)		8.11	17.55	16.89	0.00468	0.01013	0.00975	PASS
Extreme (0°C)		9.12	17.53	2.06	0.00526	0.01012	0.00119	PASS
Extreme (-10°C)		11.87	16.36	11.51	0.00685	0.00945	0.00664	PASS
Extreme (-20°C)		12.84	2.42	12.03	0.00741	0.00140	0.00695	PASS
Extreme (-30°C)		2.90	3.53	9.26	0.00167	0.00204	0.00535	PASS
25°C		LV	15.49	4.74	5.63	0.00894	0.00274	0.00325
	HV	12.49	15.68	7.76	0.00721	0.00905	0.00448	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	1.04	17.94	10.98	0.00060	0.01035	0.00634	PASS
Extreme (60°C)		4.76	17.36	12.22	0.00274	0.01002	0.00705	PASS
Extreme (50°C)		14.86	5.90	12.10	0.00857	0.00340	0.00698	PASS
Extreme (40°C)		7.22	8.71	10.53	0.00416	0.00503	0.00608	PASS
Extreme (30°C)		11.69	5.76	15.39	0.00675	0.00333	0.00888	PASS
Extreme (20°C)		5.55	3.66	1.41	0.00320	0.00212	0.00081	PASS
Extreme (10°C)		1.91	13.82	13.59	0.00110	0.00798	0.00784	PASS
Extreme (0°C)		6.05	2.07	16.09	0.00349	0.00119	0.00929	PASS



Extreme (-10°C)		8.11	8.16	1.69	0.00468	0.00471	0.00098	PASS
Extreme (-20°C)		1.26	11.98	5.33	0.00073	0.00691	0.00308	PASS
Extreme (-30°C)		12.67	11.84	17.81	0.00731	0.00683	0.01028	PASS
25°C	LV	7.13	14.28	4.76	0.00412	0.00825	0.00275	PASS
	HV	11.51	8.62	12.10	0.00665	0.00498	0.00699	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	1.86	2.22	4.18	0.00107	0.00128	0.00241	PASS
Extreme (60°C)		8.53	5.95	12.61	0.00493	0.00343	0.00728	PASS
Extreme (50°C)		5.68	2.04	2.98	0.00328	0.00118	0.00172	PASS
Extreme (40°C)		5.30	13.35	1.20	0.00306	0.00771	0.00069	PASS
Extreme (30°C)		1.45	3.14	11.23	0.00084	0.00181	0.00648	PASS
Extreme (20°C)		8.00	16.58	10.32	0.00462	0.00957	0.00596	PASS
Extreme (10°C)		7.65	2.47	7.56	0.00441	0.00143	0.00436	PASS
Extreme (0°C)		9.22	3.74	14.23	0.00532	0.00216	0.00822	PASS
Extreme (-10°C)		15.78	12.55	2.58	0.00911	0.00724	0.00149	PASS
Extreme (-20°C)		15.66	10.71	1.12	0.00904	0.00618	0.00065	PASS
Extreme (-30°C)		6.19	1.77	1.07	0.00357	0.00102	0.00062	PASS
25°C		LV	4.28	9.17	4.40	0.00247	0.00529	0.00254
	HV	15.01	17.43	14.24	0.00866	0.01006	0.00822	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.86	13.70	12.05	0.00338	0.00791	0.00696	PASS
Extreme (60°C)		17.92	4.61	14.87	0.01034	0.00266	0.00858	PASS
Extreme (50°C)		2.70	10.26	17.99	0.00156	0.00592	0.01038	PASS
Extreme (40°C)		14.57	5.82	10.39	0.00841	0.00336	0.00600	PASS
Extreme (30°C)		10.36	1.69	3.59	0.00598	0.00098	0.00207	PASS
Extreme (20°C)		4.74	15.67	13.39	0.00274	0.00904	0.00773	PASS
Extreme (10°C)		6.21	10.76	10.34	0.00358	0.00621	0.00597	PASS
Extreme (0°C)		16.61	3.09	11.22	0.00959	0.00178	0.00648	PASS
Extreme (-10°C)		10.48	9.77	2.19	0.00605	0.00564	0.00127	PASS
Extreme (-20°C)		10.66	14.34	15.79	0.00616	0.00828	0.00911	PASS
Extreme (-30°C)		3.46	15.30	5.38	0.00200	0.00883	0.00311	PASS
25°C		LV	9.87	13.85	4.02	0.00570	0.00799	0.00232
	HV	10.26	14.35	9.97	0.00592	0.00829	0.00575	PASS



LTE Band 12								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.08	11.71	10.15	0.00436	0.01656	0.01434	PASS
Extreme (60°C)		7.78	13.57	8.35	0.01099	0.01918	0.01180	PASS
Extreme (50°C)		3.27	8.67	17.56	0.00462	0.01226	0.02483	PASS
Extreme (40°C)		9.83	14.97	10.59	0.01390	0.02115	0.01497	PASS
Extreme (30°C)		12.44	16.09	6.40	0.01758	0.02274	0.00904	PASS
Extreme (20°C)		5.26	1.05	6.55	0.00743	0.00148	0.00925	PASS
Extreme (10°C)		15.73	4.94	3.45	0.02224	0.00698	0.00488	PASS
Extreme (0°C)		9.83	12.63	9.39	0.01389	0.01785	0.01328	PASS
Extreme (-10°C)		14.79	13.76	5.45	0.02090	0.01945	0.00770	PASS
Extreme (-20°C)		3.92	5.50	6.18	0.00555	0.00777	0.00874	PASS
Extreme (-30°C)		11.65	16.48	11.14	0.01646	0.02329	0.01574	PASS
25°C		LV	3.77	4.82	11.10	0.00533	0.00682	0.01569
	HV	10.51	4.98	17.74	0.01486	0.00703	0.02508	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	13.93	8.15	15.15	0.01969	0.01151	0.02142	PASS
Extreme (60°C)		14.86	3.98	15.56	0.02100	0.00562	0.02199	PASS
Extreme (50°C)		11.88	6.64	16.12	0.01679	0.00939	0.02278	PASS
Extreme (40°C)		12.23	2.58	14.31	0.01728	0.00364	0.02023	PASS
Extreme (30°C)		1.76	14.87	10.32	0.00249	0.02101	0.01459	PASS
Extreme (20°C)		11.60	17.19	8.95	0.01639	0.02430	0.01265	PASS
Extreme (10°C)		13.13	14.21	11.21	0.01855	0.02008	0.01584	PASS
Extreme (0°C)		1.81	6.96	11.90	0.00256	0.00984	0.01682	PASS
Extreme (-10°C)		13.34	1.92	15.80	0.01885	0.00271	0.02233	PASS
Extreme (-20°C)		14.51	5.56	4.05	0.02051	0.00786	0.00572	PASS
Extreme (-30°C)		12.39	16.61	11.82	0.01752	0.02348	0.01671	PASS
25°C		LV	8.25	14.64	13.58	0.01167	0.02069	0.01920
	HV	9.95	17.14	8.60	0.01406	0.02422	0.01216	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.39	8.42	12.23	0.00621	0.01190	0.01729	PASS
Extreme (60°C)		6.24	11.47	15.27	0.00882	0.01621	0.02158	PASS
Extreme (50°C)		10.81	12.33	3.82	0.01528	0.01743	0.00541	PASS



Extreme (40°C)		13.21	7.85	1.30	0.01867	0.01109	0.00183	PASS
Extreme (30°C)		1.46	7.50	10.40	0.00206	0.01060	0.01470	PASS
Extreme (20°C)		14.96	10.00	1.19	0.02114	0.01414	0.00168	PASS
Extreme (10°C)		16.37	5.35	2.99	0.02314	0.00757	0.00422	PASS
Extreme (0°C)		17.80	6.03	1.71	0.02516	0.00852	0.00242	PASS
Extreme (-10°C)		13.10	5.52	9.32	0.01851	0.00780	0.01317	PASS
Extreme (-20°C)		8.39	14.42	4.75	0.01186	0.02039	0.00671	PASS
Extreme (-30°C)		11.47	14.43	14.18	0.01622	0.02040	0.02005	PASS
25°C	LV	14.45	9.46	3.84	0.02043	0.01337	0.00542	PASS
	HV	1.47	5.29	2.16	0.00207	0.00748	0.00305	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	2.64	4.19	3.49	0.00374	0.00592	0.00493	PASS
Extreme (60°C)		9.66	2.74	9.88	0.01366	0.00387	0.01397	PASS
Extreme (50°C)		15.31	2.52	7.96	0.02164	0.00356	0.01125	PASS
Extreme (40°C)		15.26	2.29	4.36	0.02157	0.00324	0.00617	PASS
Extreme (30°C)		12.54	10.57	11.88	0.01772	0.01493	0.01679	PASS
Extreme (20°C)		4.58	6.51	6.14	0.00647	0.00920	0.00867	PASS
Extreme (10°C)		1.24	5.59	9.42	0.00175	0.00790	0.01332	PASS
Extreme (0°C)		1.44	13.53	13.62	0.00204	0.01912	0.01925	PASS
Extreme (-10°C)		2.12	1.88	9.28	0.00299	0.00266	0.01311	PASS
Extreme (-20°C)		1.42	13.73	7.97	0.00200	0.01941	0.01127	PASS
Extreme (-30°C)		6.22	16.52	14.61	0.00879	0.02335	0.02065	PASS
25°C		LV	9.93	8.84	7.64	0.01403	0.01249	0.01080
	HV	14.65	3.77	8.25	0.02071	0.00533	0.01167	PASS

LTE Band 41								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	2.00	4.00	2.00	0.00077	0.00154	0.00077	PASS
Extreme (60°C)		6.00	6.00	2.00	0.00231	0.00231	0.00077	PASS
Extreme (50°C)		13.00	15.00	16.00	0.00501	0.00578	0.00617	PASS
Extreme (40°C)		1.00	11.00	6.00	0.00039	0.00424	0.00231	PASS
Extreme (30°C)		5.00	1.00	9.00	0.00193	0.00039	0.00347	PASS
Extreme (20°C)		2.00	9.00	13.00	0.00077	0.00347	0.00501	PASS
Extreme (10°C)		6.00	1.00	1.00	0.00231	0.00039	0.00039	PASS
Extreme (0°C)		17.00	16.00	16.00	0.00656	0.00617	0.00617	PASS
Extreme (-10°C)		16.00	14.00	17.00	0.00617	0.00540	0.00656	PASS
Extreme (-20°C)		10.00	7.00	6.00	0.00386	0.00270	0.00231	PASS



Extreme (-30°C)		4.00	4.00	16.00	0.00154	0.00154	0.00617	PASS
25°C	LV	12.00	2.00	8.00	0.00463	0.00077	0.00309	PASS
	HV	14.00	5.00	16.00	0.00540	0.00193	0.00617	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.00	11.00	6.00	0.00309	0.00424	0.00231	PASS
Extreme (60°C)		17.00	7.00	4.00	0.00656	0.00270	0.00154	PASS
Extreme (50°C)		2.00	16.00	1.00	0.00077	0.00617	0.00039	PASS
Extreme (40°C)		7.00	17.00	4.00	0.00270	0.00656	0.00154	PASS
Extreme (30°C)		13.00	15.00	2.00	0.00501	0.00578	0.00077	PASS
Extreme (20°C)		5.00	9.00	6.00	0.00193	0.00347	0.00231	PASS
Extreme (10°C)		3.00	17.00	2.00	0.00116	0.00656	0.00077	PASS
Extreme (0°C)		14.00	9.00	15.00	0.00540	0.00347	0.00578	PASS
Extreme (-10°C)		8.00	12.00	6.00	0.00309	0.00463	0.00231	PASS
Extreme (-20°C)		6.00	7.00	12.00	0.00231	0.00270	0.00463	PASS
Extreme (-30°C)		17.00	6.00	5.00	0.00656	0.00231	0.00193	PASS
25°C		LV	11.00	10.00	14.00	0.00424	0.00386	0.00540
	HV	11.00	2.00	8.00	0.00424	0.00077	0.00309	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.00	17.00	13.00	0.00116	0.00656	0.00501	PASS
Extreme (60°C)		14.00	14.00	8.00	0.00540	0.00540	0.00309	PASS
Extreme (50°C)		9.00	3.00	1.00	0.00347	0.00116	0.00039	PASS
Extreme (40°C)		14.00	4.00	10.00	0.00540	0.00154	0.00386	PASS
Extreme (30°C)		16.00	17.00	5.00	0.00617	0.00656	0.00193	PASS
Extreme (20°C)		17.00	5.00	13.00	0.00656	0.00193	0.00501	PASS
Extreme (10°C)		4.00	16.00	16.00	0.00154	0.00617	0.00617	PASS
Extreme (0°C)		3.00	3.00	14.00	0.00116	0.00116	0.00540	PASS
Extreme (-10°C)		9.00	9.00	7.00	0.00347	0.00347	0.00270	PASS
Extreme (-20°C)		12.00	4.00	16.00	0.00463	0.00154	0.00617	PASS
Extreme (-30°C)		4.00	11.00	2.00	0.00154	0.00424	0.00077	PASS
25°C		LV	1.00	10.00	16.00	0.00039	0.00386	0.00617
	HV	3.00	14.00	3.00	0.00116	0.00540	0.00116	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	2.00	17.00	4.00	0.00077	0.00656	0.00154	PASS
Extreme (60°C)		9.00	9.00	11.00	0.00347	0.00347	0.00424	PASS



Extreme (50°C)		2.00	7.00	5.00	0.00077	0.00270	0.00193	PASS
Extreme (40°C)		11.00	3.00	10.00	0.00424	0.00116	0.00386	PASS
Extreme (30°C)		7.00	4.00	1.00	0.00270	0.00154	0.00039	PASS
Extreme (20°C)		13.00	10.00	3.00	0.00501	0.00386	0.00116	PASS
Extreme (10°C)		4.00	7.00	9.00	0.00154	0.00270	0.00347	PASS
Extreme (0°C)		14.00	5.00	4.00	0.00540	0.00193	0.00154	PASS
Extreme (-10°C)		4.00	8.00	6.00	0.00154	0.00309	0.00231	PASS
Extreme (-20°C)		4.00	10.00	7.00	0.00154	0.00386	0.00270	PASS
Extreme (-30°C)		13.00	6.00	9.00	0.00501	0.00231	0.00347	PASS
25°C	LV	3.00	11.00	15.00	0.00116	0.00424	0.00578	PASS
	HV	8.00	7.00	8.00	0.00309	0.00270	0.00309	PASS

LTE Band 66								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.00	14.00	6.00	0.00172	0.00802	0.00344	PASS
Extreme (60°C)		11.00	3.00	2.00	0.00630	0.00172	0.00115	PASS
Extreme (50°C)		16.00	17.00	6.00	0.00917	0.00974	0.00344	PASS
Extreme (40°C)		11.00	3.00	15.00	0.00630	0.00172	0.00860	PASS
Extreme (30°C)		13.00	6.00	10.00	0.00745	0.00344	0.00573	PASS
Extreme (20°C)		2.00	15.00	6.00	0.00115	0.00860	0.00344	PASS
Extreme (10°C)		8.00	15.00	6.00	0.00458	0.00860	0.00344	PASS
Extreme (0°C)		1.00	13.00	4.00	0.00057	0.00745	0.00229	PASS
Extreme (-10°C)		5.00	3.00	14.00	0.00287	0.00172	0.00802	PASS
Extreme (-20°C)		14.00	6.00	5.00	0.00802	0.00344	0.00287	PASS
Extreme (-30°C)		7.00	4.00	1.00	0.00401	0.00229	0.00057	PASS
25°C		LV	13.00	8.00	9.00	0.00745	0.00458	0.00516
	HV	5.00	13.00	16.00	0.00287	0.00745	0.00917	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.00	15.00	5.00	0.00401	0.00860	0.00287	PASS
Extreme (60°C)		16.00	3.00	15.00	0.00917	0.00172	0.00860	PASS
Extreme (50°C)		7.00	7.00	16.00	0.00401	0.00401	0.00917	PASS
Extreme (40°C)		13.00	12.00	6.00	0.00745	0.00688	0.00344	PASS
Extreme (30°C)		11.00	9.00	12.00	0.00630	0.00516	0.00688	PASS
Extreme (20°C)		13.00	12.00	14.00	0.00745	0.00688	0.00802	PASS
Extreme (10°C)		11.00	17.00	6.00	0.00630	0.00974	0.00344	PASS
Extreme (0°C)		8.00	11.00	13.00	0.00458	0.00630	0.00745	PASS
Extreme (-10°C)		11.00	3.00	11.00	0.00630	0.00172	0.00630	PASS



Extreme (-20°C)		11.00	15.00	14.00	0.00630	0.00860	0.00802	PASS	
Extreme (-30°C)		12.00	13.00	8.00	0.00688	0.00745	0.00458	PASS	
25°C	LV	1.00	14.00	9.00	0.00057	0.00802	0.00516	PASS	
	HV	17.00	7.00	14.00	0.00974	0.00401	0.00802	PASS	
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	5MHz								
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	1.00	15.00	6.00	0.00057	0.00860	0.00344	PASS	
Extreme (60°C)		7.00	16.00	13.00	0.00401	0.00917	0.00745	PASS	
Extreme (50°C)		10.00	3.00	5.00	0.00573	0.00172	0.00287	PASS	
Extreme (40°C)		11.00	8.00	7.00	0.00630	0.00458	0.00401	PASS	
Extreme (30°C)		3.00	9.00	1.00	0.00172	0.00516	0.00057	PASS	
Extreme (20°C)		1.00	14.00	7.00	0.00057	0.00802	0.00401	PASS	
Extreme (10°C)		7.00	13.00	9.00	0.00401	0.00745	0.00516	PASS	
Extreme (0°C)		2.00	2.00	4.00	0.00115	0.00115	0.00229	PASS	
Extreme (-10°C)		12.00	13.00	8.00	0.00688	0.00745	0.00458	PASS	
Extreme (-20°C)		17.00	11.00	15.00	0.00974	0.00630	0.00860	PASS	
Extreme (-30°C)		12.00	14.00	4.00	0.00688	0.00802	0.00229	PASS	
25°C		LV	4.00	4.00	12.00	0.00229	0.00229	0.00688	PASS
		HV	16.00	17.00	1.00	0.00917	0.00974	0.00057	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	10MHz								
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	17.00	13.00	14.00	0.00974	0.00745	0.00802	PASS	
Extreme (60°C)		1.00	15.00	4.00	0.00057	0.00860	0.00229	PASS	
Extreme (50°C)		11.00	3.00	7.00	0.00630	0.00172	0.00401	PASS	
Extreme (40°C)		15.00	5.00	12.00	0.00860	0.00287	0.00688	PASS	
Extreme (30°C)		15.00	7.00	8.00	0.00860	0.00401	0.00458	PASS	
Extreme (20°C)		12.00	3.00	2.00	0.00688	0.00172	0.00115	PASS	
Extreme (10°C)		17.00	9.00	9.00	0.00974	0.00516	0.00516	PASS	
Extreme (0°C)		4.00	2.00	2.00	0.00229	0.00115	0.00115	PASS	
Extreme (-10°C)		13.00	17.00	5.00	0.00745	0.00974	0.00287	PASS	
Extreme (-20°C)		3.00	4.00	2.00	0.00172	0.00229	0.00115	PASS	
Extreme (-30°C)		10.00	1.00	15.00	0.00573	0.00057	0.00860	PASS	
25°C	LV	8.00	3.00	5.00	0.00458	0.00172	0.00287	PASS	
	HV	17.00	15.00	12.00	0.00974	0.00860	0.00688	PASS	
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	15MHz								
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	14.00	7.00	10.00	0.00802	0.00401	0.00573	PASS	



Extreme (60°C)		9.00	3.00	4.00	0.00516	0.00172	0.00229	PASS
Extreme (50°C)		10.00	13.00	6.00	0.00573	0.00745	0.00344	PASS
Extreme (40°C)		12.00	3.00	1.00	0.00688	0.00172	0.00057	PASS
Extreme (30°C)		14.00	4.00	3.00	0.00802	0.00229	0.00172	PASS
Extreme (20°C)		9.00	13.00	14.00	0.00516	0.00745	0.00802	PASS
Extreme (10°C)		13.00	2.00	3.00	0.00745	0.00115	0.00172	PASS
Extreme (0°C)		4.00	15.00	1.00	0.00229	0.00860	0.00057	PASS
Extreme (-10°C)		16.00	17.00	13.00	0.00917	0.00974	0.00745	PASS
Extreme (-20°C)		5.00	2.00	14.00	0.00287	0.00115	0.00802	PASS
Extreme (-30°C)		4.00	14.00	13.00	0.00229	0.00802	0.00745	PASS
25°C	LV	2.00	6.00	8.00	0.00115	0.00344	0.00458	PASS
	HV	15.00	17.00	13.00	0.00860	0.00974	0.00745	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.00	4.00	4.00	0.00516	0.00229	0.00229	PASS
Extreme (60°C)		8.00	6.00	13.00	0.00458	0.00344	0.00745	PASS
Extreme (50°C)		7.00	4.00	1.00	0.00401	0.00229	0.00057	PASS
Extreme (40°C)		6.00	12.00	4.00	0.00344	0.00688	0.00229	PASS
Extreme (30°C)		12.00	3.00	4.00	0.00688	0.00172	0.00229	PASS
Extreme (20°C)		7.00	7.00	3.00	0.00401	0.00401	0.00172	PASS
Extreme (10°C)		11.00	10.00	7.00	0.00630	0.00573	0.00401	PASS
Extreme (0°C)		3.00	9.00	2.00	0.00172	0.00516	0.00115	PASS
Extreme (-10°C)		4.00	9.00	10.00	0.00229	0.00516	0.00573	PASS
Extreme (-20°C)		9.00	4.00	14.00	0.00516	0.00229	0.00802	PASS
Extreme (-30°C)		8.00	9.00	11.00	0.00458	0.00516	0.00630	PASS
25°C	LV	14.00	15.00	6.00	0.00802	0.00860	0.00344	PASS
	HV	3.00	5.00	17.00	0.00172	0.00287	0.00974	PASS

LTE Band 71								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.00	13.00	8.00	0.00441	0.01910	0.01176	PASS
Extreme (60°C)		2.00	17.00	1.00	0.00294	0.02498	0.00147	PASS
Extreme (50°C)		9.00	16.00	15.00	0.01323	0.02351	0.02204	PASS
Extreme (40°C)		14.00	10.00	7.00	0.02057	0.01470	0.01029	PASS
Extreme (30°C)		16.00	16.00	16.00	0.02351	0.02351	0.02351	PASS
Extreme (20°C)		6.00	2.00	12.00	0.00882	0.00294	0.01763	PASS
Extreme (10°C)		14.00	12.00	10.00	0.02057	0.01763	0.01470	PASS
Extreme (0°C)		15.00	3.00	2.00	0.02204	0.00441	0.00294	PASS



Extreme (-10°C)		16.00	14.00	8.00	0.02351	0.02057	0.01176	PASS	
Extreme (-20°C)		10.00	14.00	3.00	0.01470	0.02057	0.00441	PASS	
Extreme (-30°C)		10.00	14.00	11.00	0.01470	0.02057	0.01616	PASS	
25°C	LV	5.00	7.00	1.00	0.00735	0.01029	0.00147	PASS	
	HV	16.00	3.00	13.00	0.02351	0.00441	0.01910	PASS	
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	10MHz								
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	13.00	7.00	16.00	0.01910	0.01029	0.02351	PASS	
Extreme (60°C)		3.00	1.00	16.00	0.00441	0.00147	0.02351	PASS	
Extreme (50°C)		17.00	17.00	11.00	0.02498	0.02498	0.01616	PASS	
Extreme (40°C)		11.00	5.00	15.00	0.01616	0.00735	0.02204	PASS	
Extreme (30°C)		12.00	7.00	12.00	0.01763	0.01029	0.01763	PASS	
Extreme (20°C)		7.00	9.00	9.00	0.01029	0.01323	0.01323	PASS	
Extreme (10°C)		12.00	13.00	17.00	0.01763	0.01910	0.02498	PASS	
Extreme (0°C)		6.00	11.00	14.00	0.00882	0.01616	0.02057	PASS	
Extreme (-10°C)		6.00	11.00	11.00	0.00882	0.01616	0.01616	PASS	
Extreme (-20°C)		3.00	6.00	7.00	0.00441	0.00882	0.01029	PASS	
Extreme (-30°C)		11.00	8.00	15.00	0.01616	0.01176	0.02204	PASS	
25°C		LV	5.00	14.00	3.00	0.00735	0.02057	0.00441	PASS
		HV	4.00	13.00	5.00	0.00588	0.01910	0.00735	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	15MHz								
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	1.00	4.00	16.00	0.00147	0.00588	0.02351	PASS	
Extreme (60°C)		3.00	2.00	10.00	0.00441	0.00294	0.01470	PASS	
Extreme (50°C)		5.00	13.00	1.00	0.00735	0.01910	0.00147	PASS	
Extreme (40°C)		8.00	17.00	17.00	0.01176	0.02498	0.02498	PASS	
Extreme (30°C)		15.00	13.00	16.00	0.02204	0.01910	0.02351	PASS	
Extreme (20°C)		14.00	9.00	2.00	0.02057	0.01323	0.00294	PASS	
Extreme (10°C)		9.00	3.00	2.00	0.01323	0.00441	0.00294	PASS	
Extreme (0°C)		5.00	6.00	15.00	0.00735	0.00882	0.02204	PASS	
Extreme (-10°C)		14.00	10.00	13.00	0.02057	0.01470	0.01910	PASS	
Extreme (-20°C)		4.00	6.00	6.00	0.00588	0.00882	0.00882	PASS	
Extreme (-30°C)		4.00	17.00	8.00	0.00588	0.02498	0.01176	PASS	
25°C		LV	6.00	7.00	5.00	0.00882	0.01029	0.00735	PASS
		HV	7.00	1.00	13.00	0.01029	0.00147	0.01910	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	20MHz								
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK		



Normal (25°C)	Normal	14.00	14.00	4.00	0.02057	0.02057	0.00588	PASS
Extreme (60°C)		16.00	2.00	11.00	0.02351	0.00294	0.01616	PASS
Extreme (50°C)		9.00	1.00	10.00	0.01323	0.00147	0.01470	PASS
Extreme (40°C)		9.00	11.00	2.00	0.01323	0.01616	0.00294	PASS
Extreme (30°C)		13.00	8.00	8.00	0.01910	0.01176	0.01176	PASS
Extreme (20°C)		2.00	4.00	1.00	0.00294	0.00588	0.00147	PASS
Extreme (10°C)		9.00	16.00	15.00	0.01323	0.02351	0.02204	PASS
Extreme (0°C)		6.00	11.00	5.00	0.00882	0.01616	0.00735	PASS
Extreme (-10°C)		9.00	13.00	5.00	0.01323	0.01910	0.00735	PASS
Extreme (-20°C)		6.00	17.00	10.00	0.00882	0.02498	0.01470	PASS
Extreme (-30°C)		3.00	10.00	14.00	0.00441	0.01470	0.02057	PASS
25°C		LV	7.00	1.00	10.00	0.01029	0.00147	0.01470
	HV	11.00	14.00	4.00	0.01616	0.02057	0.00588	PASS

CA_41C							
CA_41C_QPSK		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict	
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)		
Temperature	Voltage						
Normal (25°C)	Normal	12.33	0.00656	10.19	0.00542	PASS	
Extreme (60°C)		12.55	0.00668	5.61	0.00298	PASS	
Extreme (50°C)		3.33	0.00177	6.80	0.00362	PASS	
Extreme (40°C)		2.95	0.00157	15.45	0.00822	PASS	
Extreme (30°C)		10.65	0.00566	17.70	0.00941	PASS	
Extreme (20°C)		5.98	0.00318	11.52	0.00613	PASS	
Extreme (10°C)		13.20	0.00702	11.55	0.00615	PASS	
Extreme (0°C)		4.17	0.00222	5.92	0.00315	PASS	
Extreme (-10°C)		12.21	0.00649	5.22	0.00278	PASS	
Extreme (-20°C)		17.62	0.00937	15.05	0.00800	PASS	
Extreme (-30°C)		15.94	0.00848	4.28	0.00227	PASS	
25°C		LV	3.64	0.00193	12.12	0.00645	PASS
	HV	4.33	0.00231	13.67	0.00727	PASS	
CA_41C_16QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict	
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)		
Temperature	Voltage						
Normal (25°C)	Normal	15.79	0.00840	10.38	0.00552	PASS	
Extreme (60°C)		15.12	0.00804	8.38	0.00446	PASS	
Extreme (50°C)		16.68	0.00887	17.42	0.00926	PASS	
Extreme (40°C)		2.95	0.00157	1.31	0.00070	PASS	
Extreme (30°C)		13.39	0.00712	9.29	0.00494	PASS	
Extreme (20°C)		16.63	0.00884	3.54	0.00188	PASS	
Extreme (10°C)		11.86	0.00631	16.89	0.00898	PASS	



Extreme (0°C)		13.88	0.00738	5.26	0.00280	PASS
Extreme (-10°C)		1.98	0.00105	15.17	0.00807	PASS
Extreme (-20°C)		13.84	0.00736	9.54	0.00507	PASS
Extreme (-30°C)		8.62	0.00459	7.82	0.00416	PASS
25°C	LV	14.80	0.00787	11.15	0.00593	PASS
	HV	17.92	0.00953	14.69	0.00781	PASS
CA_41C_64QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25°C)	Normal	14.28	0.00760	14.87	0.00791	PASS
Extreme (60°C)		7.10	0.00378	4.45	0.00237	PASS
Extreme (50°C)		13.11	0.00697	16.70	0.00889	PASS
Extreme (40°C)		12.41	0.00660	6.29	0.00334	PASS
Extreme (30°C)		3.28	0.00174	1.50	0.00080	PASS
Extreme (20°C)		3.39	0.00180	14.97	0.00796	PASS
Extreme (10°C)		5.91	0.00314	17.19	0.00914	PASS
Extreme (0°C)		1.82	0.00097	10.81	0.00575	PASS
Extreme (-10°C)		11.27	0.00600	10.47	0.00557	PASS
Extreme (-20°C)		9.25	0.00492	3.66	0.00195	PASS
Extreme (-30°C)		15.70	0.00835	6.49	0.00345	PASS
25°C		LV	16.97	0.00903	8.04	0.00428
	HV	2.77	0.00147	4.60	0.00245	PASS

NR n41										
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Temperature	Voltage									
Normal (25°C)	Normal	5.26	5.85	15.98	14.26	0.00280	0.00311	0.00850	0.00758	PASS
Extreme (60°C)		12.52	9.12	6.62	4.52	0.00666	0.00485	0.00352	0.00241	PASS
Extreme (50°C)		2.13	16.29	12.14	16.13	0.00113	0.00867	0.00646	0.00858	PASS
Extreme (40°C)		7.37	11.69	12.64	6.37	0.00392	0.00622	0.00672	0.00339	PASS
Extreme (30°C)		13.05	14.89	12.09	9.05	0.00694	0.00792	0.00643	0.00481	PASS
Extreme (20°C)		15.23	8.06	8.33	3.23	0.00810	0.00429	0.00443	0.00172	PASS
Extreme (10°C)		14.29	2.42	17.37	12.29	0.00760	0.00129	0.00924	0.00654	PASS
Extreme (0°C)		14.11	10.11	11.79	15.11	0.00750	0.00538	0.00627	0.00804	PASS
Extreme (-10°C)		1.21	16.26	7.83	4.21	0.00064	0.00865	0.00417	0.00224	PASS
Extreme (-20°C)		15.12	11.34	3.42	10.12	0.00804	0.00603	0.00182	0.00538	PASS
Extreme (-30°C)		8.45	12.70	15.32	9.45	0.00449	0.00675	0.00815	0.00503	PASS
25°C		LV	7.68	17.68	5.94	1.68	0.00408	0.00940	0.00316	0.00089
	HV	6.50	11.54	14.92	1.50	0.00346	0.00614	0.00793	0.00080	PASS
Condition		Freq.	Freq.	Freq.	Freq.	Frequency	Frequency	Frequency	Frequency	Verdict



Condition		Error (Hz)	Error (Hz)	Error (Hz)	Error (Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	6.64	9.83	17.93	17.64	0.00353	0.00523	0.00954	0.00938	PASS
Extreme (60°C)		6.55	2.04	5.76	12.55	0.00348	0.00109	0.00307	0.00667	PASS
Extreme (50°C)		7.40	14.02	1.09	13.40	0.00393	0.00746	0.00058	0.00713	PASS
Extreme (40°C)		11.95	15.32	14.27	3.95	0.00636	0.00815	0.00759	0.00210	PASS
Extreme (30°C)		10.01	17.70	17.07	17.01	0.00532	0.00941	0.00908	0.00905	PASS
Extreme (20°C)		8.35	11.47	12.08	3.35	0.00444	0.00610	0.00643	0.00178	PASS
Extreme (10°C)		14.21	13.87	3.00	11.21	0.00756	0.00738	0.00159	0.00596	PASS
Extreme (0°C)		10.51	10.77	7.62	4.51	0.00559	0.00573	0.00405	0.00240	PASS
Extreme (-10°C)		12.23	11.22	3.51	3.23	0.00651	0.00597	0.00187	0.00172	PASS
Extreme (-20°C)		1.17	7.12	1.18	15.17	0.00062	0.00379	0.00063	0.00807	PASS
Extreme (-30°C)		9.49	3.85	3.24	5.49	0.00505	0.00205	0.00172	0.00292	PASS
25°C		LV	8.47	7.19	8.13	17.47	0.00451	0.00382	0.00432	0.00929
	HV	3.91	13.97	8.51	1.91	0.00208	0.00743	0.00452	0.00102	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.75	5.76	8.65	15.75	0.00518	0.00307	0.00460	0.00838	PASS
Extreme (60°C)		16.50	3.07	14.54	14.50	0.00878	0.00163	0.00774	0.00771	PASS
Extreme (50°C)		9.76	7.37	5.36	7.76	0.00519	0.00392	0.00285	0.00413	PASS
Extreme (40°C)		11.91	4.08	10.83	1.91	0.00634	0.00217	0.00576	0.00102	PASS
Extreme (30°C)		17.57	8.07	15.43	1.57	0.00934	0.00429	0.00821	0.00083	PASS
Extreme (20°C)		13.99	12.14	17.51	15.99	0.00744	0.00646	0.00931	0.00850	PASS
Extreme (10°C)		16.83	15.21	8.29	16.83	0.00895	0.00809	0.00441	0.00895	PASS
Extreme (0°C)		9.38	15.80	13.67	6.38	0.00499	0.00841	0.00727	0.00339	PASS
Extreme (-10°C)		15.35	8.65	9.36	17.35	0.00817	0.00460	0.00498	0.00923	PASS
Extreme (-20°C)		1.58	9.87	17.09	13.58	0.00084	0.00525	0.00909	0.00722	PASS
Extreme (-30°C)		15.02	16.92	17.22	5.02	0.00799	0.00900	0.00916	0.00267	PASS
25°C		LV	13.92	9.94	5.16	4.92	0.00741	0.00529	0.00275	0.00262
	HV	3.34	17.35	9.06	4.34	0.00177	0.00923	0.00482	0.00231	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	30MHz	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	13.97	5.71	2.95	5.97	0.00743	0.00304	0.00157	0.00318	PASS
Extreme (60°C)		3.04	15.68	15.47	15.04	0.00162	0.00834	0.00823	0.00800	PASS
Extreme (50°C)		14.02	7.65	8.98	15.02	0.00746	0.00407	0.00478	0.00799	PASS
Extreme (40°C)		4.85	11.22	2.36	12.85	0.00258	0.00597	0.00126	0.00683	PASS
Extreme (30°C)		2.36	1.46	9.39	1.36	0.00126	0.00078	0.00499	0.00073	PASS
Extreme (20°C)		7.90	1.29	7.14	9.90	0.00420	0.00069	0.00380	0.00527	PASS



Extreme (10°C)		7.55	10.24	6.98	6.55	0.00402	0.00545	0.00371	0.00348	PASS
Extreme (0°C)		6.67	1.87	11.70	12.67	0.00355	0.00100	0.00622	0.00674	PASS
Extreme (-10°C)		7.82	5.19	5.95	1.82	0.00416	0.00276	0.00317	0.00097	PASS
Extreme (-20°C)		5.74	13.87	3.76	6.74	0.00305	0.00738	0.00200	0.00358	PASS
Extreme (-30°C)		7.99	10.62	15.20	6.99	0.00425	0.00565	0.00809	0.00372	PASS
25°C	LV	9.61	14.09	9.72	8.61	0.00511	0.00750	0.00517	0.00458	PASS
	HV	11.23	6.01	6.70	17.23	0.00597	0.00320	0.00356	0.00916	PASS

DC_66A_n41											
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	10MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	6.00	7.41	14.07	8.00	0.00319	0.00394	0.00749	0.00425	PASS	
Extreme (60°C)		9.77	15.50	13.87	15.77	0.00520	0.00824	0.00738	0.00839	PASS	
Extreme (50°C)		16.28	17.73	10.46	13.28	0.00866	0.00943	0.00556	0.00706	PASS	
Extreme (40°C)		10.80	13.15	7.51	9.80	0.00575	0.00700	0.00400	0.00521	PASS	
Extreme (30°C)		1.60	6.37	8.84	12.60	0.00085	0.00339	0.00470	0.00670	PASS	
Extreme (20°C)		14.31	8.78	17.80	6.31	0.00761	0.00467	0.00947	0.00335	PASS	
Extreme (10°C)		7.57	9.01	2.21	7.57	0.00403	0.00479	0.00117	0.00403	PASS	
Extreme (0°C)		10.18	8.66	17.87	12.18	0.00541	0.00461	0.00951	0.00648	PASS	
Extreme (-10°C)		16.71	13.96	13.43	4.71	0.00889	0.00742	0.00715	0.00251	PASS	
Extreme (-20°C)		4.03	13.50	4.00	3.03	0.00214	0.00718	0.00213	0.00161	PASS	
Extreme (-30°C)		8.38	1.39	2.90	11.38	0.00445	0.00074	0.00154	0.00605	PASS	
25°C		LV	15.67	5.76	14.37	13.67	0.00833	0.00306	0.00764	0.00727	PASS
		HV	7.84	7.22	12.56	8.84	0.00417	0.00384	0.00668	0.00470	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	15MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	8.74	16.37	15.78	15.74	0.00465	0.00871	0.00839	0.00837	PASS	
Extreme (60°C)		10.17	3.61	15.89	17.17	0.00541	0.00192	0.00845	0.00913	PASS	
Extreme (50°C)		13.38	14.93	10.17	14.38	0.00712	0.00794	0.00541	0.00765	PASS	
Extreme (40°C)		4.78	15.54	1.30	5.78	0.00254	0.00827	0.00069	0.00307	PASS	
Extreme (30°C)		9.64	8.18	8.95	1.64	0.00513	0.00435	0.00476	0.00087	PASS	
Extreme (20°C)		12.56	5.60	9.84	15.56	0.00668	0.00298	0.00524	0.00828	PASS	
Extreme (10°C)		11.36	16.96	10.63	12.36	0.00604	0.00902	0.00565	0.00658	PASS	
Extreme (0°C)		1.92	11.39	1.36	11.92	0.00102	0.00606	0.00072	0.00634	PASS	
Extreme (-10°C)		6.37	11.31	1.98	4.37	0.00339	0.00602	0.00105	0.00233	PASS	
Extreme (-20°C)		15.36	8.91	8.81	2.36	0.00817	0.00474	0.00469	0.00125	PASS	
Extreme (-30°C)		5.81	4.38	3.65	9.81	0.00309	0.00233	0.00194	0.00522	PASS	
25°C		LV	10.74	5.34	2.54	2.74	0.00572	0.00284	0.00135	0.00146	PASS
		HV	8.68	9.21	15.95	1.68	0.00462	0.00490	0.00848	0.00089	PASS



Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	20MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	6.66	7.08	11.42	10.66	0.00354	0.00376	0.00607	0.00567	PASS	
Extreme (60°C)		14.40	1.13	9.45	7.40	0.00766	0.00060	0.00502	0.00394	PASS	
Extreme (50°C)		10.71	16.38	1.27	15.71	0.00570	0.00871	0.00068	0.00836	PASS	
Extreme (40°C)		7.03	14.40	1.51	5.03	0.00374	0.00766	0.00080	0.00268	PASS	
Extreme (30°C)		3.45	6.12	6.99	11.45	0.00184	0.00326	0.00372	0.00609	PASS	
Extreme (20°C)		2.87	9.84	3.07	16.87	0.00153	0.00524	0.00163	0.00897	PASS	
Extreme (10°C)		5.13	11.87	5.38	3.13	0.00273	0.00632	0.00286	0.00166	PASS	
Extreme (0°C)		6.17	13.02	7.87	6.17	0.00328	0.00692	0.00419	0.00328	PASS	
Extreme (-10°C)		12.38	10.20	10.24	7.38	0.00659	0.00542	0.00545	0.00393	PASS	
Extreme (-20°C)		15.82	4.88	5.14	6.82	0.00841	0.00260	0.00273	0.00363	PASS	
Extreme (-30°C)		10.63	7.51	15.41	16.63	0.00566	0.00399	0.00820	0.00885	PASS	
25°C		LV	12.25	3.09	12.98	12.25	0.00652	0.00164	0.00690	0.00652	PASS
		HV	17.12	2.32	7.04	9.12	0.00910	0.00124	0.00375	0.00485	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	30MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	2.18	12.50	9.80	4.18	0.00116	0.00665	0.00521	0.00222	PASS	
Extreme (60°C)		7.47	12.97	3.10	10.47	0.00397	0.00690	0.00165	0.00557	PASS	
Extreme (50°C)		8.03	1.92	4.37	15.03	0.00427	0.00102	0.00232	0.00799	PASS	
Extreme (40°C)		6.28	9.17	15.11	8.28	0.00334	0.00488	0.00804	0.00440	PASS	
Extreme (30°C)		15.95	15.54	10.95	5.95	0.00849	0.00827	0.00582	0.00317	PASS	
Extreme (20°C)		16.71	13.24	4.84	7.71	0.00889	0.00705	0.00258	0.00410	PASS	
Extreme (10°C)		17.49	2.28	6.25	1.49	0.00930	0.00121	0.00332	0.00079	PASS	
Extreme (0°C)		14.08	2.07	7.79	2.08	0.00749	0.00110	0.00414	0.00111	PASS	
Extreme (-10°C)		13.46	6.12	8.09	9.46	0.00716	0.00326	0.00430	0.00503	PASS	
Extreme (-20°C)		15.62	2.22	1.94	5.62	0.00831	0.00118	0.00103	0.00299	PASS	
Extreme (-30°C)		8.97	15.15	17.13	16.97	0.00477	0.00806	0.00911	0.00903	PASS	
25°C		LV	15.68	16.09	16.11	7.68	0.00834	0.00856	0.00857	0.00408	PASS
		HV	1.62	3.31	8.83	5.62	0.00086	0.00176	0.00470	0.00299	PASS

NR n66										
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	11.54	9.41	14.99	8.54	0.00614	0.00500	0.00798	0.00454	PASS
Extreme (60°C)		3.15	16.01	6.56	17.15	0.00167	0.00852	0.00349	0.00912	PASS
Extreme (50°C)		3.95	13.51	16.95	16.95	0.00210	0.00719	0.00902	0.00902	PASS



Extreme (40°C)		6.56	15.85	12.98	10.56	0.00349	0.00843	0.00691	0.00562	PASS
Extreme (30°C)		12.17	1.16	12.75	14.17	0.00647	0.00062	0.00678	0.00754	PASS
Extreme (20°C)		4.17	7.47	8.32	4.17	0.00222	0.00397	0.00442	0.00222	PASS
Extreme (10°C)		14.34	9.49	3.96	12.34	0.00763	0.00505	0.00211	0.00657	PASS
Extreme (0°C)		12.64	11.67	7.30	14.64	0.00672	0.00621	0.00388	0.00779	PASS
Extreme (-10°C)		6.56	9.49	1.62	13.56	0.00349	0.00505	0.00086	0.00721	PASS
Extreme (-20°C)		1.34	2.80	9.44	13.34	0.00071	0.00149	0.00502	0.00710	PASS
Extreme (-30°C)		14.21	3.77	4.48	2.21	0.00756	0.00201	0.00238	0.00118	PASS
25°C	LV	8.73	16.64	6.23	8.73	0.00464	0.00885	0.00331	0.00464	PASS
	HV	13.75	12.96	3.58	15.75	0.00731	0.00689	0.00191	0.00838	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	13.03	4.12	2.89	12.03	0.00693	0.00219	0.00154	0.00640	PASS
Extreme (60°C)		5.24	2.28	4.29	10.24	0.00279	0.00121	0.00228	0.00545	PASS
Extreme (50°C)		10.37	6.48	3.50	4.37	0.00552	0.00345	0.00186	0.00233	PASS
Extreme (40°C)		16.57	11.42	9.33	9.57	0.00882	0.00607	0.00496	0.00509	PASS
Extreme (30°C)		17.14	16.29	9.51	11.14	0.00912	0.00866	0.00506	0.00593	PASS
Extreme (20°C)		17.21	1.94	14.52	3.21	0.00915	0.00103	0.00772	0.00171	PASS
Extreme (10°C)		8.96	3.66	9.55	14.96	0.00477	0.00195	0.00508	0.00796	PASS
Extreme (0°C)		1.64	12.77	8.61	4.64	0.00087	0.00679	0.00458	0.00247	PASS
Extreme (-10°C)		11.88	5.04	1.93	15.88	0.00632	0.00268	0.00103	0.00845	PASS
Extreme (-20°C)		8.45	10.40	3.09	11.45	0.00450	0.00553	0.00165	0.00609	PASS
Extreme (-30°C)		2.91	10.65	16.76	2.91	0.00155	0.00566	0.00892	0.00155	PASS
25°C		LV	7.06	1.33	6.67	2.06	0.00376	0.00071	0.00355	0.00110
	HV	13.90	4.44	10.02	8.90	0.00739	0.00236	0.00533	0.00473	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.14	9.91	1.51	6.14	0.00220	0.00527	0.00080	0.00327	PASS
Extreme (60°C)		14.71	11.90	9.14	5.71	0.00782	0.00633	0.00486	0.00304	PASS
Extreme (50°C)		1.29	2.33	12.74	6.29	0.00069	0.00124	0.00678	0.00335	PASS
Extreme (40°C)		6.82	4.33	17.04	11.82	0.00363	0.00231	0.00907	0.00629	PASS
Extreme (30°C)		10.84	3.31	16.14	9.84	0.00577	0.00176	0.00858	0.00524	PASS
Extreme (20°C)		3.52	16.92	3.53	13.52	0.00187	0.00900	0.00188	0.00719	PASS
Extreme (10°C)		14.79	5.88	5.74	13.79	0.00786	0.00313	0.00306	0.00733	PASS
Extreme (0°C)		3.84	14.68	3.85	15.84	0.00204	0.00781	0.00205	0.00842	PASS
Extreme (-10°C)		6.35	9.74	17.23	1.35	0.00338	0.00518	0.00916	0.00072	PASS
Extreme (-20°C)		10.67	9.42	1.92	14.67	0.00567	0.00501	0.00102	0.00780	PASS
Extreme (-30°C)		1.49	3.95	17.71	5.49	0.00080	0.00210	0.00942	0.00292	PASS
25°C		LV	3.54	4.45	1.03	7.54	0.00188	0.00237	0.00055	0.00401



	HV	14.39	5.26	1.26	16.39	0.00765	0.00280	0.00067	0.00872	PASS	
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	20MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	6.25	16.61	3.63	9.25	0.00333	0.00883	0.00193	0.00492	PASS	
Extreme (60°C)		1.00	6.64	9.43	3.00	0.00053	0.00353	0.00502	0.00160	PASS	
Extreme (50°C)		2.54	13.61	14.52	9.54	0.00135	0.00724	0.00772	0.00507	PASS	
Extreme (40°C)		14.01	13.66	8.23	12.01	0.00745	0.00727	0.00438	0.00639	PASS	
Extreme (30°C)		17.35	16.07	8.22	10.35	0.00923	0.00855	0.00437	0.00551	PASS	
Extreme (20°C)		3.02	11.36	13.14	16.02	0.00161	0.00604	0.00699	0.00852	PASS	
Extreme (10°C)		16.90	12.10	9.07	8.90	0.00899	0.00644	0.00482	0.00474	PASS	
Extreme (0°C)		1.41	12.55	12.48	9.41	0.00075	0.00668	0.00664	0.00500	PASS	
Extreme (-10°C)		14.36	14.23	10.09	3.36	0.00764	0.00757	0.00537	0.00179	PASS	
Extreme (-20°C)		12.55	2.75	3.52	3.55	0.00667	0.00146	0.00187	0.00189	PASS	
Extreme (-30°C)		10.30	5.96	17.72	11.30	0.00548	0.00317	0.00943	0.00601	PASS	
25°C		LV	17.10	13.54	11.16	10.10	0.00909	0.00720	0.00594	0.00537	PASS
		HV	12.28	12.26	16.05	5.28	0.00653	0.00652	0.00854	0.00281	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	25MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	7.49	16.39	1.25	4.49	0.00398	0.00872	0.00067	0.00239	PASS	
Extreme (60°C)		15.12	9.34	8.07	1.12	0.00804	0.00497	0.00429	0.00060	PASS	
Extreme (50°C)		12.60	6.01	15.94	14.60	0.00670	0.00320	0.00848	0.00777	PASS	
Extreme (40°C)		13.68	8.41	7.41	3.68	0.00728	0.00447	0.00394	0.00196	PASS	
Extreme (30°C)		5.10	7.63	12.37	6.10	0.00271	0.00406	0.00658	0.00324	PASS	
Extreme (20°C)		13.25	12.08	13.37	4.25	0.00705	0.00643	0.00711	0.00226	PASS	
Extreme (10°C)		4.58	10.93	2.30	6.58	0.00243	0.00582	0.00123	0.00350	PASS	
Extreme (0°C)		13.97	3.03	16.74	11.97	0.00743	0.00161	0.00891	0.00637	PASS	
Extreme (-10°C)		12.19	5.97	7.55	10.19	0.00648	0.00318	0.00401	0.00542	PASS	
Extreme (-20°C)		5.22	6.92	12.32	6.22	0.00278	0.00368	0.00655	0.00331	PASS	
Extreme (-30°C)		14.01	9.84	3.94	7.01	0.00745	0.00524	0.00210	0.00373	PASS	
25°C		LV	5.92	8.19	15.62	14.92	0.00315	0.00435	0.00831	0.00794	PASS
		HV	15.50	17.37	15.44	3.50	0.00824	0.00924	0.00822	0.00186	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	30MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	17.84	6.00	16.84	10.84	0.00949	0.00319	0.00896	0.00577	PASS	
Extreme (60°C)		10.59	12.16	7.42	3.59	0.00563	0.00647	0.00395	0.00191	PASS	
Extreme (50°C)		5.83	12.73	8.36	13.83	0.00310	0.00677	0.00445	0.00735	PASS	
Extreme (40°C)		10.40	10.21	8.75	4.40	0.00553	0.00543	0.00466	0.00234	PASS	



Extreme (30°C)		4.55	9.26	17.19	3.55	0.00242	0.00492	0.00914	0.00189	PASS
Extreme (20°C)		17.87	6.06	2.58	15.87	0.00951	0.00323	0.00137	0.00844	PASS
Extreme (10°C)		15.37	16.31	15.27	8.37	0.00818	0.00867	0.00812	0.00445	PASS
Extreme (0°C)		10.36	1.43	4.85	11.36	0.00551	0.00076	0.00258	0.00604	PASS
Extreme (-10°C)		13.52	8.34	13.12	8.52	0.00719	0.00444	0.00698	0.00453	PASS
Extreme (-20°C)		1.69	13.44	3.83	9.69	0.00090	0.00715	0.00204	0.00515	PASS
Extreme (-30°C)		6.06	10.26	8.04	15.06	0.00322	0.00546	0.00428	0.00801	PASS
25°C	LV	4.07	17.41	11.83	2.07	0.00217	0.00926	0.00629	0.00110	PASS
	HV	1.21	17.04	10.10	14.21	0.00065	0.00907	0.00537	0.00756	PASS

DC_5A_n66										
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.28	12.45	12.55	16.28	0.00440	0.00662	0.00668	0.00866	PASS
Extreme (60°C)		16.85	1.34	6.71	2.85	0.00896	0.00071	0.00357	0.00151	PASS
Extreme (50°C)		14.05	11.14	6.02	2.05	0.00747	0.00593	0.00320	0.00109	PASS
Extreme (40°C)		1.33	15.08	4.66	10.33	0.00071	0.00802	0.00248	0.00550	PASS
Extreme (30°C)		14.43	1.96	9.41	8.43	0.00768	0.00104	0.00500	0.00449	PASS
Extreme (20°C)		9.15	17.24	4.57	6.15	0.00487	0.00917	0.00243	0.00327	PASS
Extreme (10°C)		7.36	8.85	16.93	2.36	0.00391	0.00471	0.00901	0.00125	PASS
Extreme (0°C)		12.58	8.97	11.53	16.58	0.00669	0.00477	0.00613	0.00882	PASS
Extreme (-10°C)		10.55	17.64	14.02	1.55	0.00561	0.00939	0.00746	0.00082	PASS
Extreme (-20°C)		12.03	14.53	9.33	3.03	0.00640	0.00773	0.00496	0.00161	PASS
Extreme (-30°C)		13.57	6.29	4.44	11.57	0.00722	0.00334	0.00236	0.00615	PASS
25°C		LV	16.21	4.64	17.86	5.21	0.00862	0.00247	0.00950	0.00277
	HV	2.76	3.97	16.10	11.76	0.00147	0.00211	0.00856	0.00625	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	15.58	11.27	13.14	5.58	0.00829	0.00599	0.00699	0.00297	PASS
Extreme (60°C)		10.14	3.64	3.10	2.14	0.00539	0.00193	0.00165	0.00114	PASS
Extreme (50°C)		11.02	9.72	2.45	8.02	0.00586	0.00517	0.00130	0.00426	PASS
Extreme (40°C)		4.86	14.13	14.03	14.86	0.00259	0.00752	0.00746	0.00791	PASS
Extreme (30°C)		2.05	1.97	4.88	7.05	0.00109	0.00105	0.00259	0.00375	PASS
Extreme (20°C)		4.99	10.62	8.29	13.99	0.00266	0.00565	0.00441	0.00744	PASS
Extreme (10°C)		1.52	16.19	5.94	16.52	0.00081	0.00861	0.00316	0.00879	PASS
Extreme (0°C)		10.66	4.66	14.65	2.66	0.00567	0.00248	0.00779	0.00141	PASS
Extreme (-10°C)		3.57	10.78	6.00	8.57	0.00190	0.00573	0.00319	0.00456	PASS
Extreme (-20°C)		7.82	13.86	12.94	17.82	0.00416	0.00737	0.00688	0.00948	PASS
Extreme (-30°C)		6.06	10.66	5.99	2.06	0.00323	0.00567	0.00318	0.00110	PASS



25°C	LV	8.54	14.04	11.42	8.54	0.00454	0.00747	0.00608	0.00454	PASS
	HV	6.43	7.82	4.76	6.43	0.00342	0.00416	0.00253	0.00342	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.26	3.38	15.99	1.26	0.00174	0.00180	0.00851	0.00067	PASS
Extreme (60°C)		15.54	1.52	5.81	9.54	0.00827	0.00081	0.00309	0.00508	PASS
Extreme (50°C)		15.18	7.94	7.26	3.18	0.00808	0.00422	0.00386	0.00169	PASS
Extreme (40°C)		9.64	10.47	3.20	11.64	0.00513	0.00557	0.00170	0.00619	PASS
Extreme (30°C)		12.14	14.11	11.61	1.14	0.00646	0.00750	0.00618	0.00061	PASS
Extreme (20°C)		5.04	15.99	8.33	6.04	0.00268	0.00851	0.00443	0.00322	PASS
Extreme (10°C)		17.56	14.96	16.51	16.56	0.00934	0.00796	0.00878	0.00881	PASS
Extreme (0°C)		4.35	17.50	11.23	3.35	0.00231	0.00931	0.00597	0.00178	PASS
Extreme (-10°C)		4.23	12.03	14.71	7.23	0.00225	0.00640	0.00782	0.00385	PASS
Extreme (-20°C)		16.06	10.34	4.92	15.06	0.00854	0.00550	0.00262	0.00801	PASS
Extreme (-30°C)		7.42	4.57	3.31	13.42	0.00394	0.00243	0.00176	0.00714	PASS
25°C		LV	17.16	8.81	5.39	8.16	0.00913	0.00469	0.00287	0.00434
	HV	14.35	5.90	16.14	2.35	0.00763	0.00314	0.00859	0.00125	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	11.90	9.77	12.52	13.90	0.00633	0.00520	0.00666	0.00739	PASS
Extreme (60°C)		13.95	17.44	7.18	16.95	0.00742	0.00928	0.00382	0.00901	PASS
Extreme (50°C)		17.20	2.91	4.14	3.20	0.00915	0.00155	0.00220	0.00170	PASS
Extreme (40°C)		16.95	11.27	5.15	15.95	0.00902	0.00599	0.00274	0.00848	PASS
Extreme (30°C)		9.42	11.55	16.77	10.42	0.00501	0.00614	0.00892	0.00554	PASS
Extreme (20°C)		2.69	12.18	10.34	5.69	0.00143	0.00648	0.00550	0.00302	PASS
Extreme (10°C)		16.04	3.80	13.27	2.04	0.00853	0.00202	0.00706	0.00108	PASS
Extreme (0°C)		5.03	4.80	12.50	17.03	0.00268	0.00255	0.00665	0.00906	PASS
Extreme (-10°C)		3.80	1.49	11.48	9.80	0.00202	0.00079	0.00611	0.00521	PASS
Extreme (-20°C)		5.16	16.65	16.78	14.16	0.00274	0.00885	0.00892	0.00753	PASS
Extreme (-30°C)		15.50	12.87	5.00	12.50	0.00824	0.00685	0.00266	0.00665	PASS
25°C		LV	14.81	8.93	7.72	8.81	0.00788	0.00475	0.00410	0.00469
	HV	17.22	11.09	10.94	11.22	0.00916	0.00590	0.00582	0.00597	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	25MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.41	3.70	5.64	3.41	0.00926	0.00197	0.00300	0.00182	PASS
Extreme (60°C)		13.00	7.03	14.05	8.00	0.00692	0.00374	0.00747	0.00426	PASS
Extreme (50°C)		4.11	14.56	3.60	4.11	0.00219	0.00774	0.00191	0.00219	PASS



Extreme (40°C)		4.86	2.98	3.87	13.86	0.00258	0.00158	0.00206	0.00737	PASS
Extreme (30°C)		6.08	6.21	15.38	5.08	0.00324	0.00330	0.00818	0.00270	PASS
Extreme (20°C)		14.90	12.54	2.03	16.90	0.00793	0.00667	0.00108	0.00899	PASS
Extreme (10°C)		4.99	10.97	11.83	17.99	0.00265	0.00584	0.00629	0.00957	PASS
Extreme (0°C)		11.67	11.83	12.20	14.67	0.00621	0.00629	0.00649	0.00780	PASS
Extreme (-10°C)		5.51	14.76	5.74	16.51	0.00293	0.00785	0.00305	0.00878	PASS
Extreme (-20°C)		7.03	4.95	17.75	10.03	0.00374	0.00263	0.00944	0.00533	PASS
Extreme (-30°C)		16.59	7.98	10.82	9.59	0.00883	0.00424	0.00575	0.00510	PASS
25°C	LV	11.53	15.19	4.93	14.53	0.00613	0.00808	0.00262	0.00773	PASS
	HV	12.03	2.26	17.11	9.03	0.00640	0.00120	0.00910	0.00480	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	30MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	13.14	4.85	12.61	4.14	0.00699	0.00258	0.00670	0.00220	PASS
Extreme (60°C)		11.51	2.45	1.59	9.51	0.00612	0.00130	0.00085	0.00506	PASS
Extreme (50°C)		2.84	17.48	5.32	5.84	0.00151	0.00930	0.00283	0.00311	PASS
Extreme (40°C)		6.30	3.92	11.67	16.30	0.00335	0.00209	0.00621	0.00867	PASS
Extreme (30°C)		12.99	8.34	4.82	1.99	0.00691	0.00444	0.00257	0.00106	PASS
Extreme (20°C)		17.86	3.16	12.66	10.86	0.00950	0.00168	0.00673	0.00578	PASS
Extreme (10°C)		1.87	4.86	16.87	5.87	0.00100	0.00258	0.00897	0.00312	PASS
Extreme (0°C)		14.11	17.23	7.14	13.11	0.00751	0.00917	0.00380	0.00697	PASS
Extreme (-10°C)		11.12	2.76	10.54	16.12	0.00591	0.00147	0.00561	0.00857	PASS
Extreme (-20°C)		4.39	14.54	11.75	4.39	0.00234	0.00773	0.00625	0.00234	PASS
Extreme (-30°C)		14.65	17.91	11.70	16.65	0.00779	0.00953	0.00623	0.00886	PASS
25°C		LV	7.35	2.98	2.28	4.35	0.00391	0.00159	0.00121	0.00231
	HV	10.64	6.74	11.61	12.64	0.00566	0.00359	0.00618	0.00672	PASS

NR n71										
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.88	1.25	3.82	13.88	0.00526	0.00067	0.00203	0.00738	PASS
Extreme (60°C)		4.63	9.10	5.69	5.63	0.00246	0.00484	0.00303	0.00299	PASS
Extreme (50°C)		14.74	4.58	4.86	17.74	0.00784	0.00244	0.00259	0.00944	PASS
Extreme (40°C)		4.32	2.56	5.79	12.32	0.00230	0.00136	0.00308	0.00655	PASS
Extreme (30°C)		17.09	12.18	7.66	13.09	0.00909	0.00648	0.00407	0.00696	PASS
Extreme (20°C)		3.66	1.37	14.92	5.66	0.00195	0.00073	0.00794	0.00301	PASS
Extreme (10°C)		16.25	4.54	6.72	4.25	0.00864	0.00242	0.00357	0.00226	PASS
Extreme (0°C)		15.24	15.23	7.34	9.24	0.00811	0.00810	0.00391	0.00492	PASS
Extreme (-10°C)		17.68	16.72	9.89	17.68	0.00940	0.00889	0.00526	0.00940	PASS
Extreme (-20°C)		2.29	17.72	13.69	6.29	0.00122	0.00942	0.00728	0.00334	PASS



Extreme (-30°C)		9.52	10.77	14.17	15.52	0.00507	0.00573	0.00754	0.00826	PASS
25°C	LV	14.12	15.64	1.53	17.12	0.00751	0.00832	0.00081	0.00910	PASS
	HV	9.39	12.77	8.72	7.39	0.00500	0.00680	0.00464	0.00393	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.47	10.50	1.04	14.47	0.00450	0.00558	0.00055	0.00770	PASS
Extreme (60°C)		3.15	7.24	1.47	1.15	0.00167	0.00385	0.00078	0.00061	PASS
Extreme (50°C)		11.33	17.71	12.48	3.33	0.00603	0.00942	0.00664	0.00177	PASS
Extreme (40°C)		8.57	6.43	1.37	5.57	0.00456	0.00342	0.00073	0.00296	PASS
Extreme (30°C)		16.40	10.45	15.15	12.40	0.00872	0.00556	0.00806	0.00659	PASS
Extreme (20°C)		4.53	7.14	2.04	4.53	0.00241	0.00380	0.00109	0.00241	PASS
Extreme (10°C)		4.83	4.36	13.61	14.83	0.00257	0.00232	0.00724	0.00789	PASS
Extreme (0°C)		12.91	15.16	5.99	14.91	0.00687	0.00806	0.00319	0.00793	PASS
Extreme (-10°C)		9.40	14.06	15.00	4.40	0.00500	0.00748	0.00798	0.00234	PASS
Extreme (-20°C)		4.33	14.97	14.35	6.33	0.00231	0.00796	0.00763	0.00337	PASS
Extreme (-30°C)		10.42	14.73	12.96	8.42	0.00554	0.00783	0.00690	0.00448	PASS
25°C		LV	10.55	2.40	15.27	12.55	0.00561	0.00128	0.00812	0.00667
	HV	3.92	17.82	8.93	10.92	0.00208	0.00948	0.00475	0.00581	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	12.88	9.35	12.94	15.88	0.00685	0.00497	0.00688	0.00845	PASS
Extreme (60°C)		1.19	3.74	7.22	8.19	0.00063	0.00199	0.00384	0.00436	PASS
Extreme (50°C)		8.45	11.63	16.93	5.45	0.00450	0.00619	0.00901	0.00290	PASS
Extreme (40°C)		5.99	3.79	3.25	4.99	0.00319	0.00202	0.00173	0.00265	PASS
Extreme (30°C)		5.80	1.80	16.25	10.80	0.00308	0.00096	0.00864	0.00574	PASS
Extreme (20°C)		14.48	4.20	8.37	5.48	0.00770	0.00223	0.00445	0.00291	PASS
Extreme (10°C)		4.07	15.93	10.48	10.07	0.00216	0.00847	0.00558	0.00535	PASS
Extreme (0°C)		12.93	11.58	12.57	4.93	0.00688	0.00616	0.00669	0.00262	PASS
Extreme (-10°C)		11.72	13.38	13.81	8.72	0.00624	0.00712	0.00735	0.00464	PASS
Extreme (-20°C)		15.55	2.16	5.06	11.55	0.00827	0.00115	0.00269	0.00614	PASS
Extreme (-30°C)		17.34	5.20	4.16	7.34	0.00922	0.00277	0.00221	0.00391	PASS
25°C		LV	12.21	10.27	14.80	15.21	0.00649	0.00546	0.00787	0.00809
	HV	14.43	2.30	16.58	11.43	0.00768	0.00122	0.00882	0.00608	PASS
Condition		Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Freq. Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz									
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.08	13.64	17.12	1.08	0.00430	0.00726	0.00910	0.00058	PASS
Extreme (60°C)		9.79	15.61	6.34	2.79	0.00521	0.00830	0.00337	0.00148	PASS



Extreme (50°C)		5.97	8.51	1.29	1.97	0.00317	0.00452	0.00069	0.00105	PASS
Extreme (40°C)		4.95	16.74	11.33	10.95	0.00263	0.00890	0.00602	0.00582	PASS
Extreme (30°C)		16.47	10.42	17.65	16.47	0.00876	0.00554	0.00939	0.00876	PASS
Extreme (20°C)		11.01	8.43	6.77	15.01	0.00586	0.00448	0.00360	0.00799	PASS
Extreme (10°C)		1.35	16.45	9.47	1.35	0.00072	0.00875	0.00503	0.00072	PASS
Extreme (0°C)		13.07	8.81	5.62	6.07	0.00695	0.00469	0.00299	0.00323	PASS
Extreme (-10°C)		10.16	13.26	16.73	12.16	0.00540	0.00705	0.00890	0.00647	PASS
Extreme (-20°C)		11.69	3.43	10.39	12.69	0.00622	0.00182	0.00553	0.00675	PASS
Extreme (-30°C)		2.64	12.26	8.47	13.64	0.00140	0.00652	0.00451	0.00725	PASS
25°C	LV	4.47	7.54	13.77	4.47	0.00238	0.00401	0.00732	0.00238	PASS
	HV	15.67	5.07	7.08	4.67	0.00834	0.00270	0.00376	0.00249	PASS

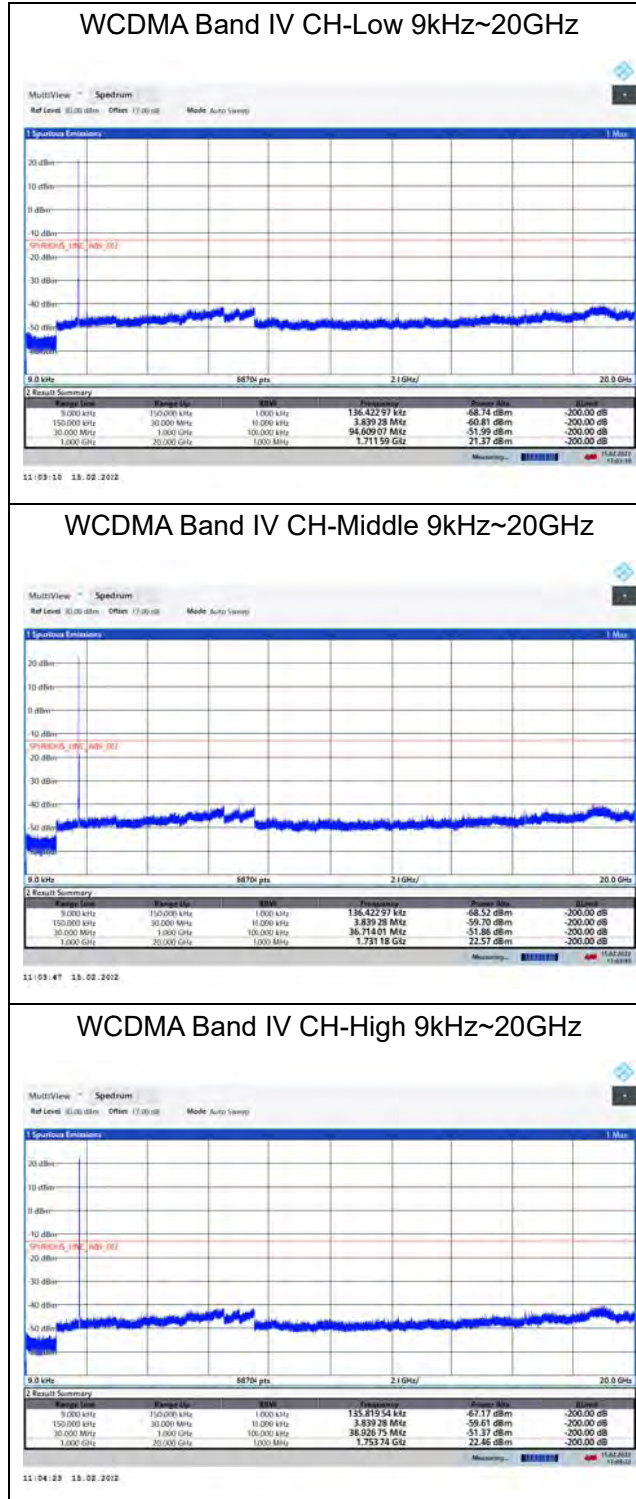
DC_66A_n71A											
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	5MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	14.54	5.53	4.96	6.54	0.00773	0.00294	0.00264	0.00348	PASS	
Extreme (60°C)		10.49	15.76	17.54	11.49	0.00558	0.00838	0.00933	0.00611	PASS	
Extreme (50°C)		17.69	12.47	1.95	8.69	0.00941	0.00664	0.00103	0.00462	PASS	
Extreme (40°C)		15.41	15.79	13.60	3.41	0.00820	0.00840	0.00723	0.00182	PASS	
Extreme (30°C)		4.01	15.18	10.57	10.01	0.00213	0.00807	0.00562	0.00533	PASS	
Extreme (20°C)		10.05	6.05	5.34	6.05	0.00535	0.00322	0.00284	0.00322	PASS	
Extreme (10°C)		7.68	12.55	8.02	8.68	0.00409	0.00668	0.00426	0.00462	PASS	
Extreme (0°C)		1.54	17.78	11.13	14.54	0.00082	0.00946	0.00592	0.00773	PASS	
Extreme (-10°C)		1.79	8.53	4.76	16.79	0.00095	0.00454	0.00253	0.00893	PASS	
Extreme (-20°C)		11.38	15.88	9.89	8.38	0.00605	0.00845	0.00526	0.00445	PASS	
Extreme (-30°C)		16.95	12.53	16.41	7.95	0.00901	0.00666	0.00873	0.00423	PASS	
25°C		LV	1.71	15.91	16.81	4.71	0.00091	0.00846	0.00894	0.00250	PASS
		HV	17.63	15.41	10.85	10.63	0.00938	0.00820	0.00577	0.00566	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	10MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	14.88	14.45	6.56	5.88	0.00792	0.00769	0.00349	0.00313	PASS	
Extreme (60°C)		2.24	2.81	6.49	9.24	0.00119	0.00150	0.00345	0.00491	PASS	
Extreme (50°C)		12.79	14.08	11.96	12.79	0.00680	0.00749	0.00636	0.00680	PASS	
Extreme (40°C)		4.72	9.94	6.41	7.72	0.00251	0.00529	0.00341	0.00411	PASS	
Extreme (30°C)		7.28	14.68	14.44	11.28	0.00387	0.00781	0.00768	0.00600	PASS	
Extreme (20°C)		5.79	4.82	17.16	9.79	0.00308	0.00256	0.00913	0.00521	PASS	
Extreme (10°C)		16.89	1.88	9.33	9.89	0.00898	0.00100	0.00496	0.00526	PASS	
Extreme (0°C)		12.75	13.79	17.40	6.75	0.00678	0.00733	0.00926	0.00359	PASS	
Extreme (-10°C)		17.14	12.64	4.34	9.14	0.00911	0.00672	0.00231	0.00486	PASS	



Extreme (-20°C)		7.03	12.34	8.52	1.03	0.00374	0.00657	0.00453	0.00055	PASS	
Extreme (-30°C)		14.19	4.70	16.59	16.19	0.00755	0.00250	0.00883	0.00861	PASS	
25°C	LV	10.96	10.34	1.12	4.96	0.00583	0.00550	0.00060	0.00264	PASS	
	HV	17.58	14.85	2.83	5.58	0.00935	0.00790	0.00151	0.00297	PASS	
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	15MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	14.53	13.32	2.47	14.53	0.00773	0.00708	0.00131	0.00773	PASS	
Extreme (60°C)		16.47	9.68	12.39	11.47	0.00876	0.00515	0.00659	0.00610	PASS	
Extreme (50°C)		16.62	12.78	11.05	14.62	0.00884	0.00680	0.00588	0.00778	PASS	
Extreme (40°C)		7.39	4.34	17.36	3.39	0.00393	0.00231	0.00923	0.00181	PASS	
Extreme (30°C)		11.69	4.48	3.79	6.69	0.00622	0.00238	0.00202	0.00356	PASS	
Extreme (20°C)		10.71	6.71	10.23	14.71	0.00570	0.00357	0.00544	0.00782	PASS	
Extreme (10°C)		2.63	14.46	14.83	4.63	0.00140	0.00769	0.00789	0.00246	PASS	
Extreme (0°C)		3.27	10.56	9.15	3.27	0.00174	0.00562	0.00487	0.00174	PASS	
Extreme (-10°C)		14.26	4.71	14.90	1.26	0.00759	0.00250	0.00793	0.00067	PASS	
Extreme (-20°C)		12.73	13.90	17.15	2.73	0.00677	0.00739	0.00912	0.00145	PASS	
Extreme (-30°C)		3.21	15.18	8.92	2.21	0.00171	0.00807	0.00475	0.00118	PASS	
25°C		LV	16.36	8.54	2.71	15.36	0.00870	0.00454	0.00144	0.00817	PASS
		HV	5.55	1.01	16.95	3.55	0.00295	0.00054	0.00902	0.00189	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
BANDWIDTH	20MHz										
Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK		
Normal (25°C)	Normal	3.00	6.42	17.24	12.00	0.00159	0.00341	0.00917	0.00638	PASS	
Extreme (60°C)		8.48	13.53	7.40	10.48	0.00451	0.00720	0.00394	0.00558	PASS	
Extreme (50°C)		14.26	9.47	16.27	6.26	0.00758	0.00503	0.00865	0.00333	PASS	
Extreme (40°C)		13.41	8.19	4.49	2.41	0.00713	0.00436	0.00239	0.00128	PASS	
Extreme (30°C)		14.20	9.27	13.26	13.20	0.00755	0.00493	0.00705	0.00702	PASS	
Extreme (20°C)		3.92	4.10	12.74	16.92	0.00208	0.00218	0.00678	0.00900	PASS	
Extreme (10°C)		10.46	14.62	17.60	17.46	0.00556	0.00778	0.00936	0.00929	PASS	
Extreme (0°C)		15.82	5.62	11.08	9.82	0.00841	0.00299	0.00589	0.00522	PASS	
Extreme (-10°C)		4.10	14.01	4.84	4.10	0.00218	0.00745	0.00257	0.00218	PASS	
Extreme (-20°C)		13.86	14.86	5.83	3.86	0.00737	0.00790	0.00310	0.00205	PASS	
Extreme (-30°C)		11.76	2.19	8.87	1.76	0.00626	0.00117	0.00472	0.00094	PASS	
25°C		LV	15.54	3.51	2.68	12.54	0.00826	0.00187	0.00142	0.00667	PASS
		HV	11.64	16.06	13.15	16.64	0.00619	0.00854	0.00699	0.00885	PASS

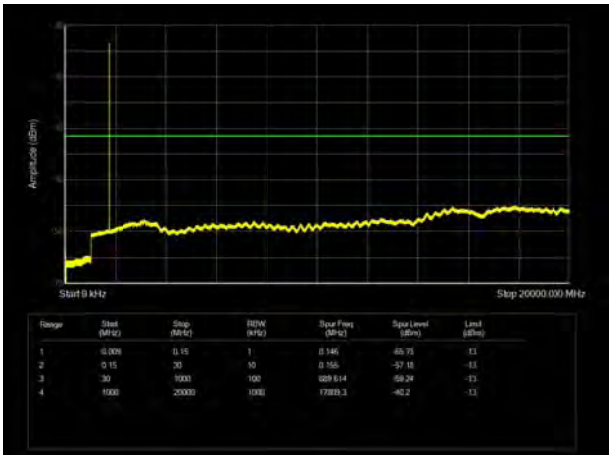
6.6 Spurious Emissions at Antenna Terminals

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.

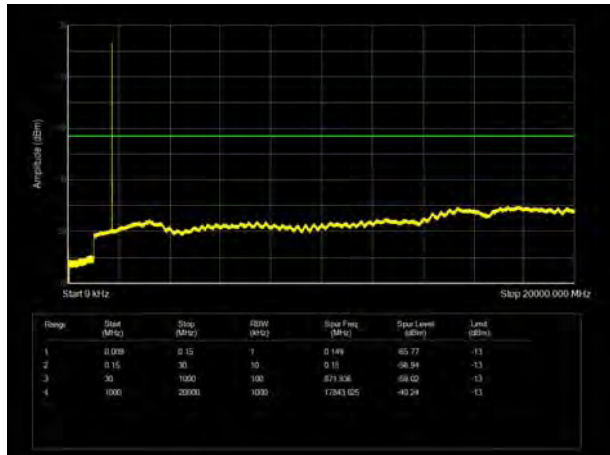




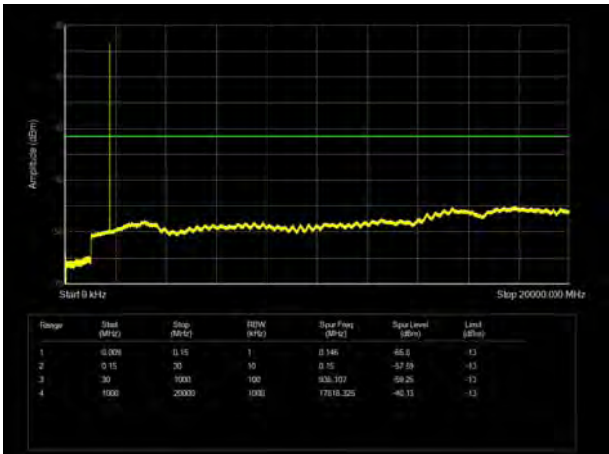
LTE Band 4 1.4MHz CH-Low 9kHz~20GHz



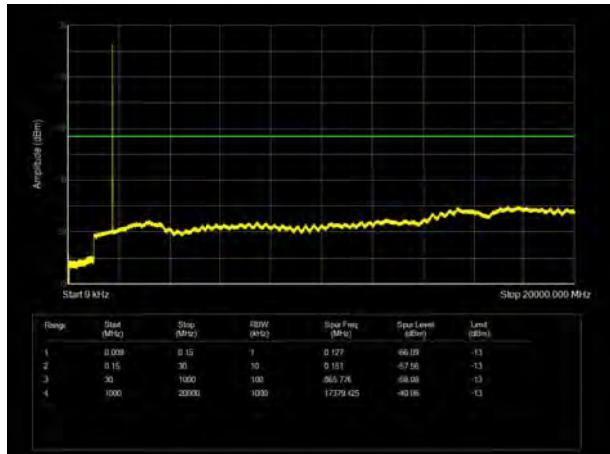
LTE Band 4 3MHz CH- Low 9kHz~20GHz



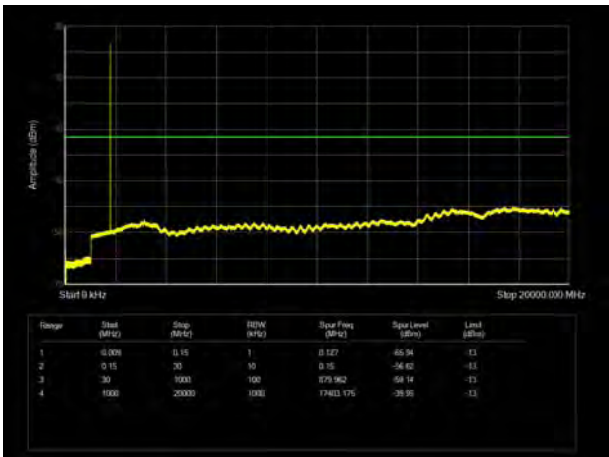
LTE Band 4 1.4MHz CH- Middle 9kHz~20GHz



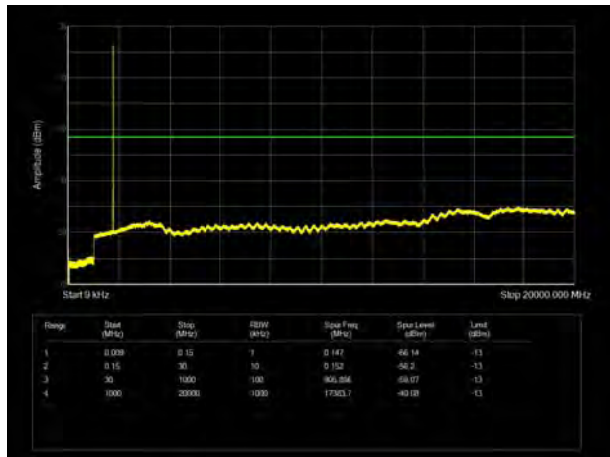
LTE Band 4 3MHz CH- Middle 9kHz~20GHz



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

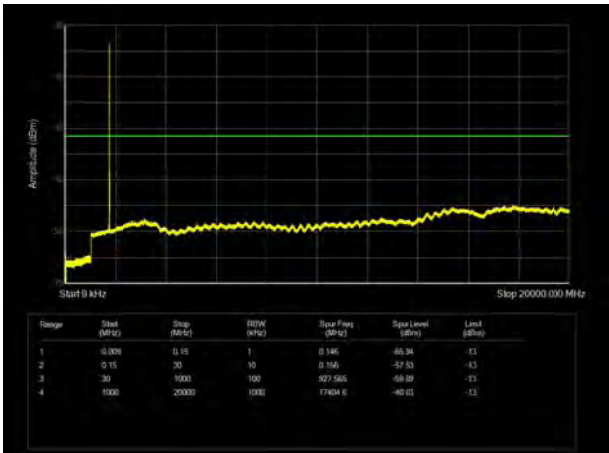


LTE Band 4 3MHz CH-High 9kHz~20GHz

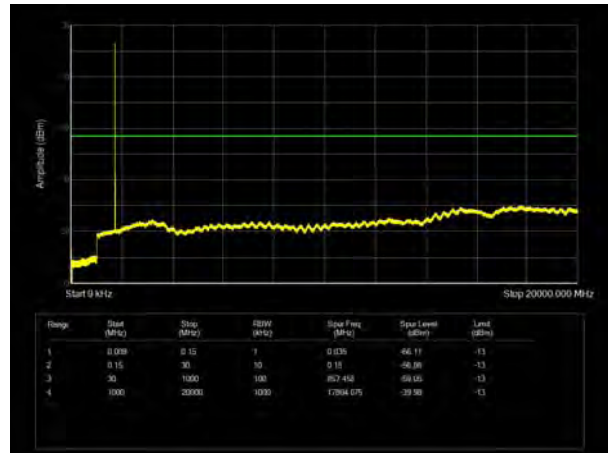




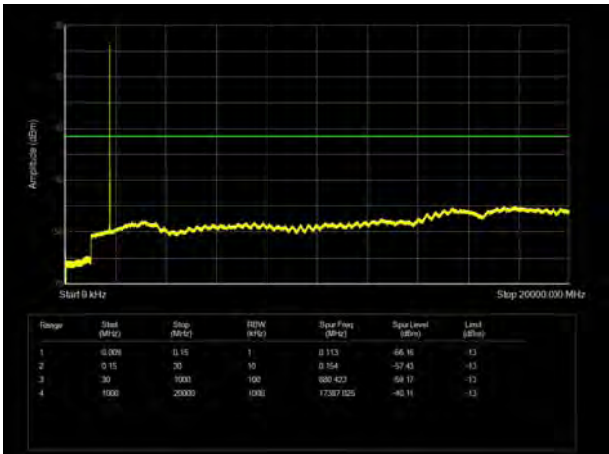
LTE Band 4 5MHz CH- Low 9kHz~20GHz



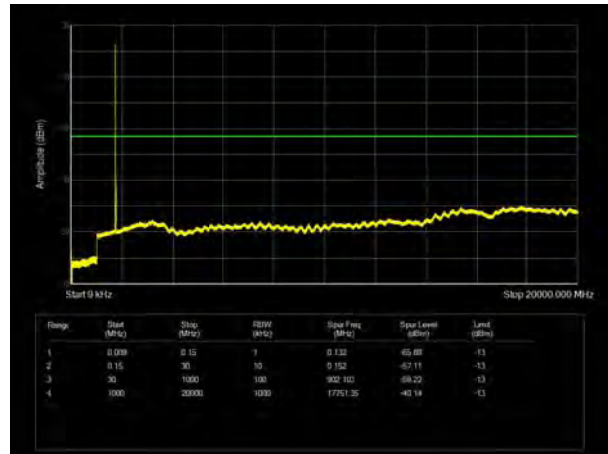
LTE Band 4 10MHz CH-Low 9kHz~20GHz



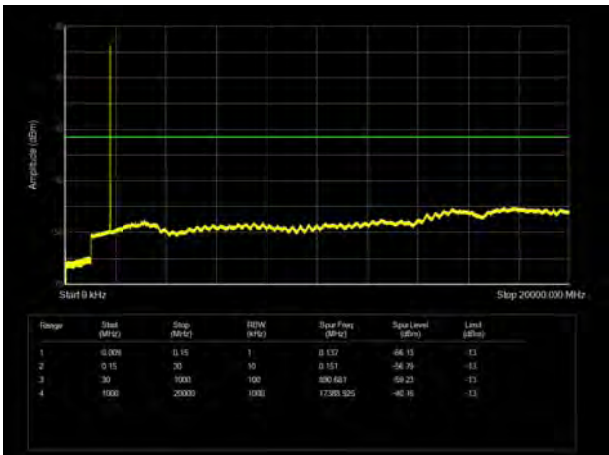
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



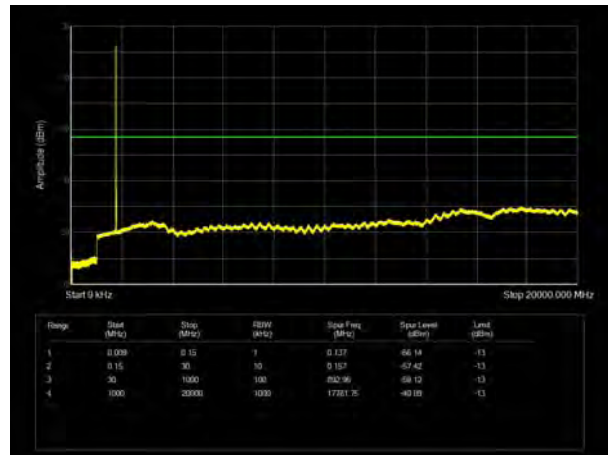
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



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

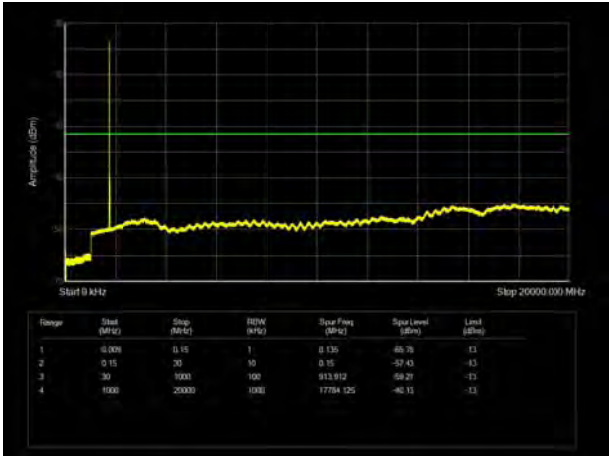


LTE Band 4 10MHz CH- High 9kHz~20GHz

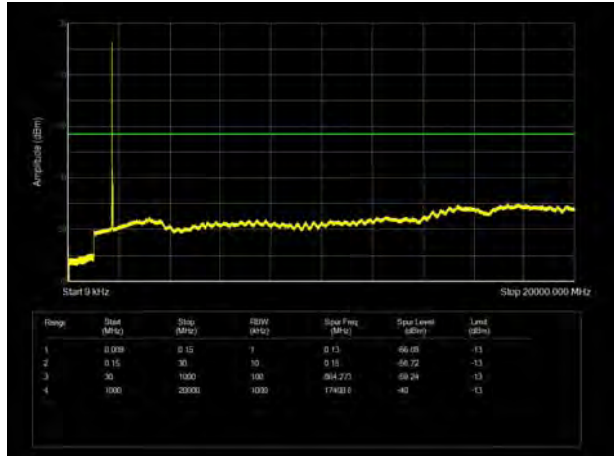




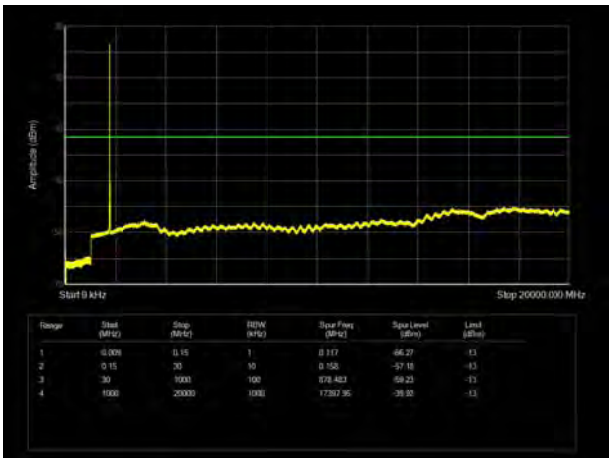
LTE Band 4 15MHz CH- Low 9kHz~20GHz



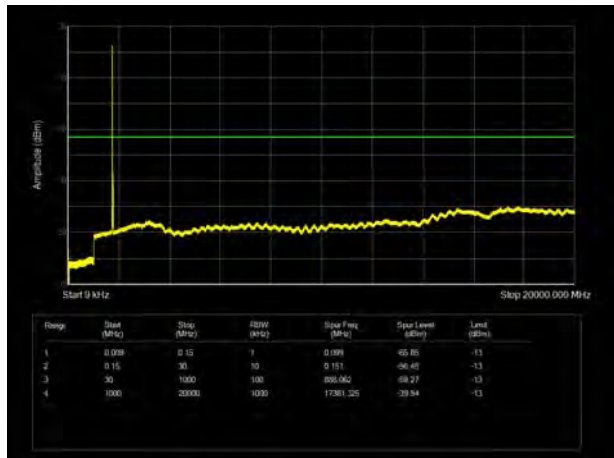
LTE Band 4 20MHz CH-Low 9kHz~20GHz



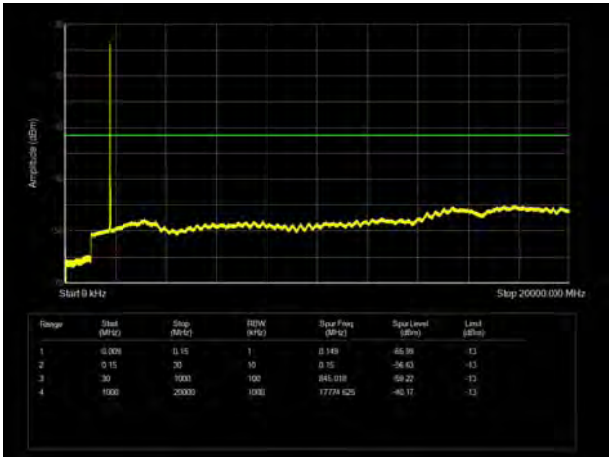
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



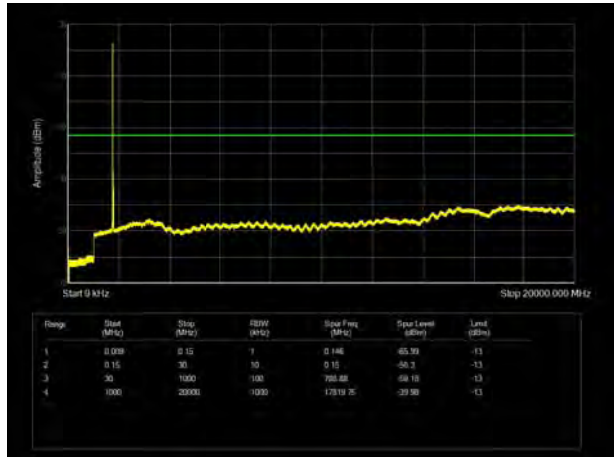
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



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

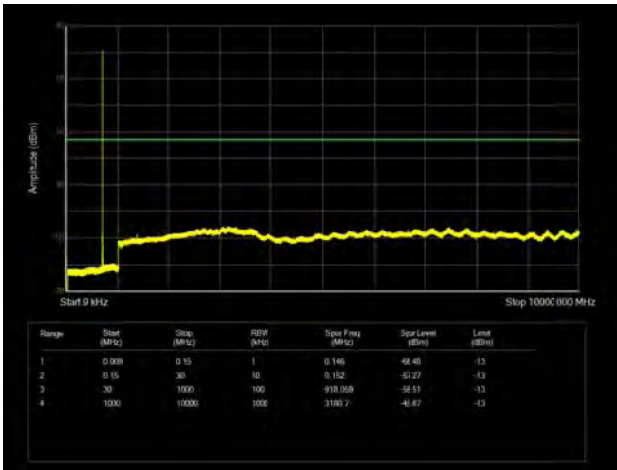


LTE Band 4 20MHz CH- High 9kHz~20GHz

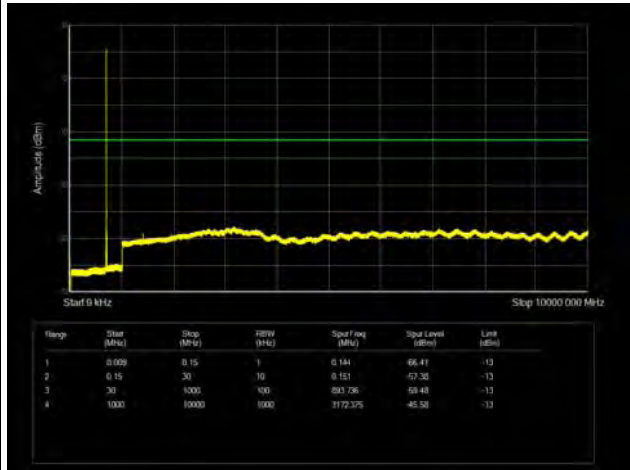




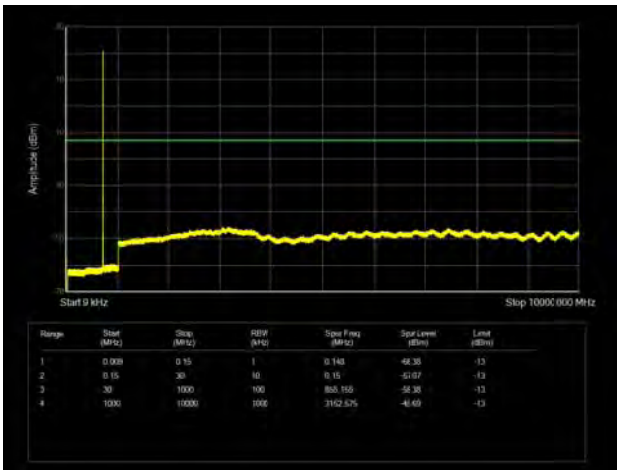
LTE Band 12 1.4MHz CH-Low 9kHz ~10GHz



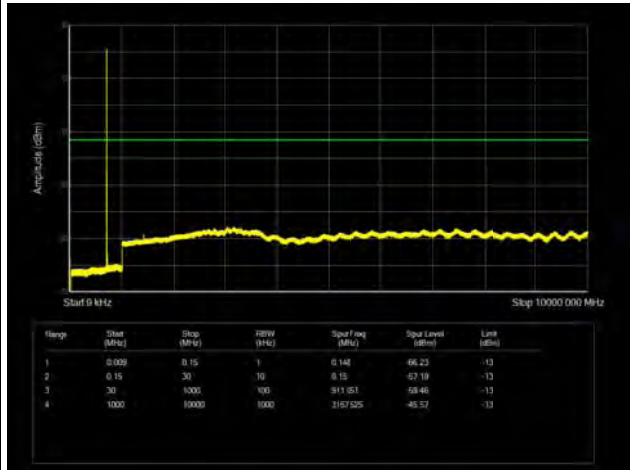
LTE Band 12 3MHz CH-Low 9kHz ~10GHz



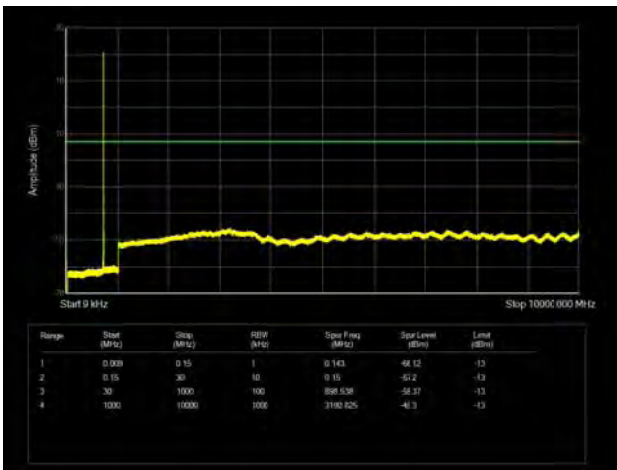
LTE Band 12 1.4MHz CH- Middle 9kHz ~10GHz



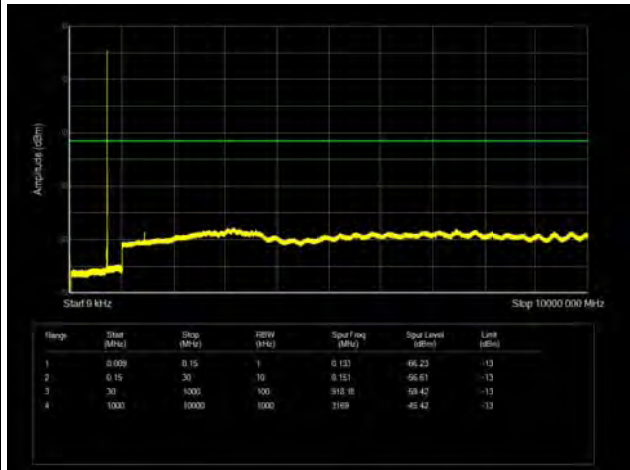
LTE Band 12 3MHz CH- Middle 9kHz ~10GHz



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

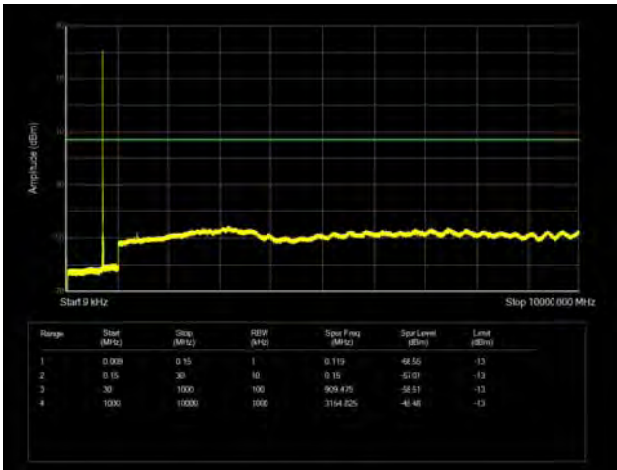


LTE Band 12 3MHz CH-High 9kHz ~10GHz

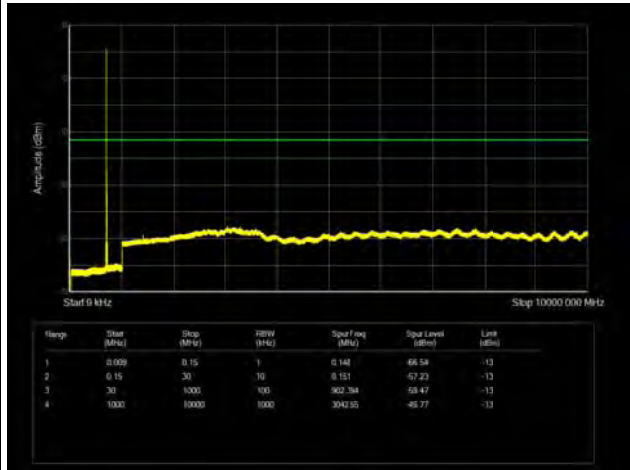




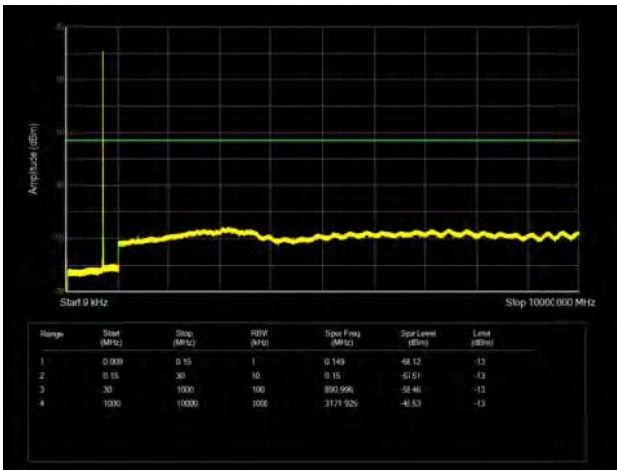
LTE Band 12 5MHz CH-Low 9kHz ~10GHz



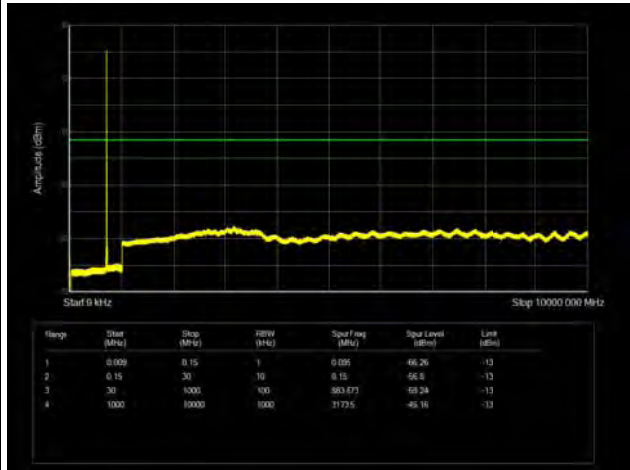
LTE Band 12 10MHz CH-Low 9kHz ~10GHz



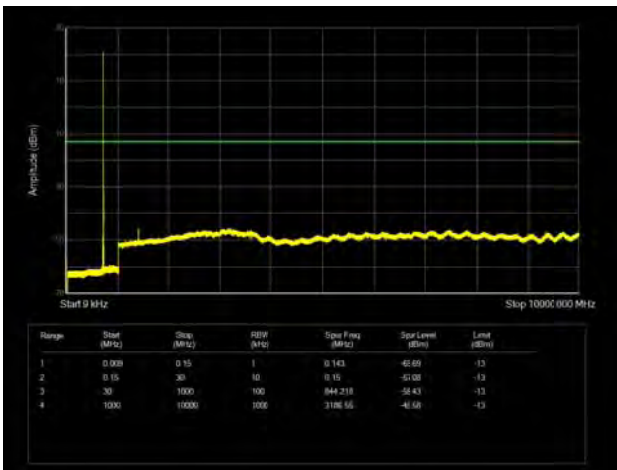
LTE Band 12 5MHz CH- Middle 9kHz ~10GHz



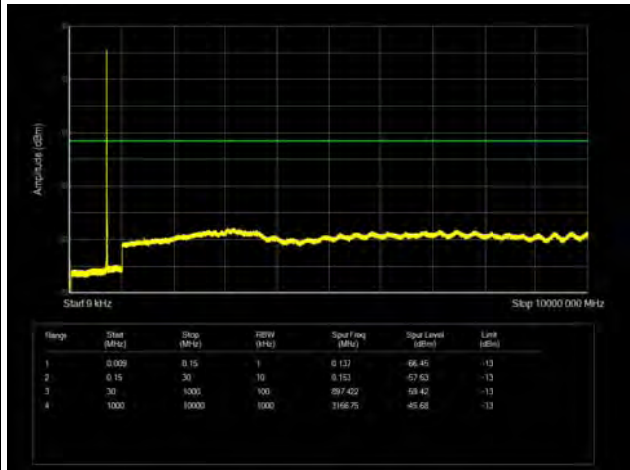
LTE Band 12 10MHz CH- Middle 9kHz ~10GHz



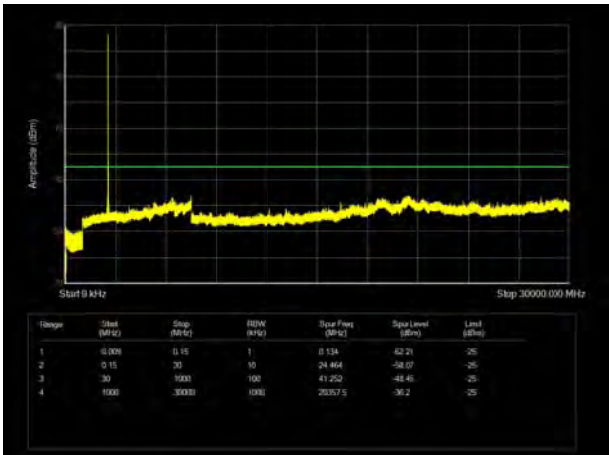
LTE Band 12 5MHz CH-High 9kHz ~10GHz



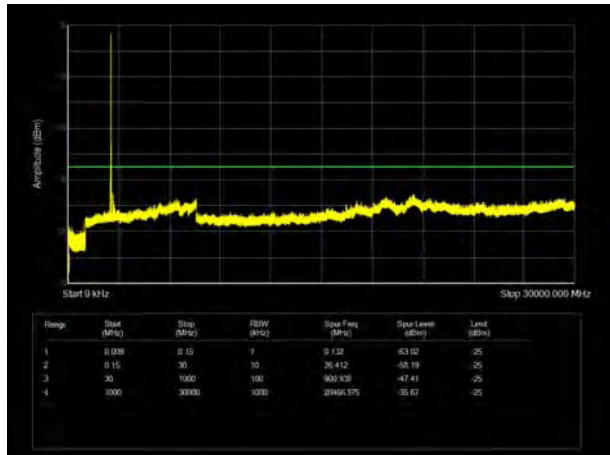
LTE Band 12 10MHz CH-High 9kHz ~10GHz



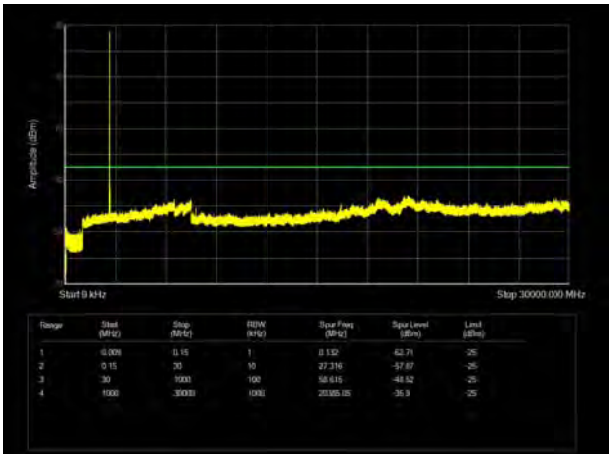
LTE Band 41 5MHz CH-Low 9kHz~30GHz



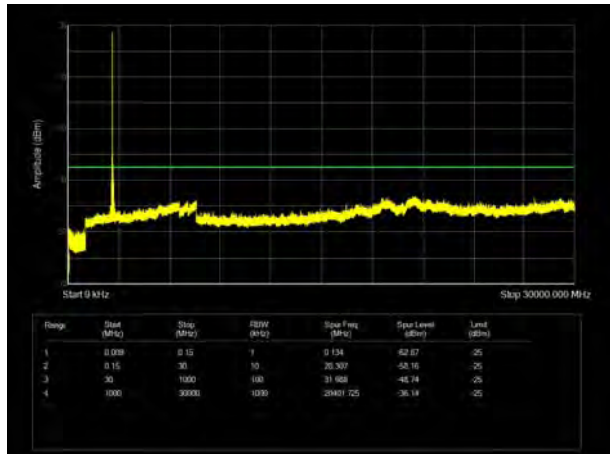
LTE Band 41 10MHz CH- Low 9kHz~30GHz



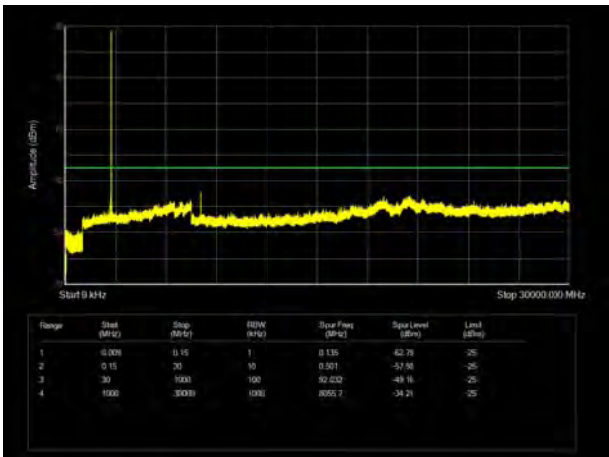
LTE Band 41 5MHz CH- Middle 9kHz~30GHz



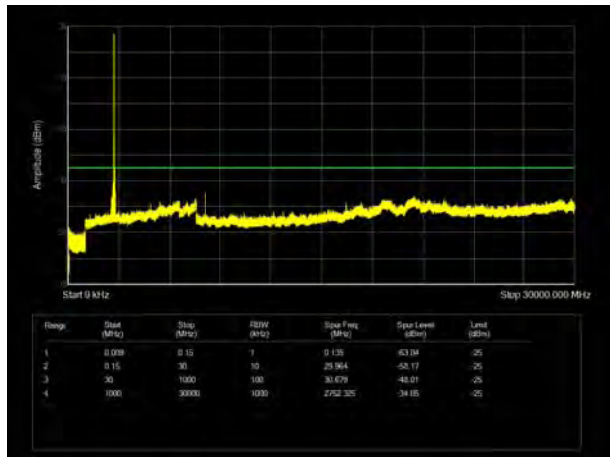
LTE Band 41 10MHz CH- Middle 9kHz~30GHz



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

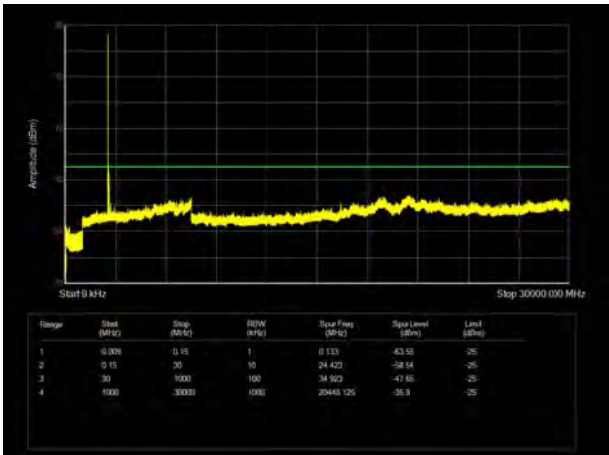


LTE Band 41 10MHz CH-High 9kHz~30GHz

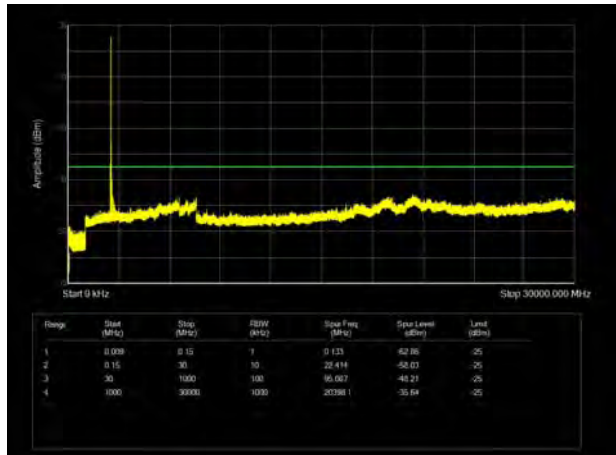




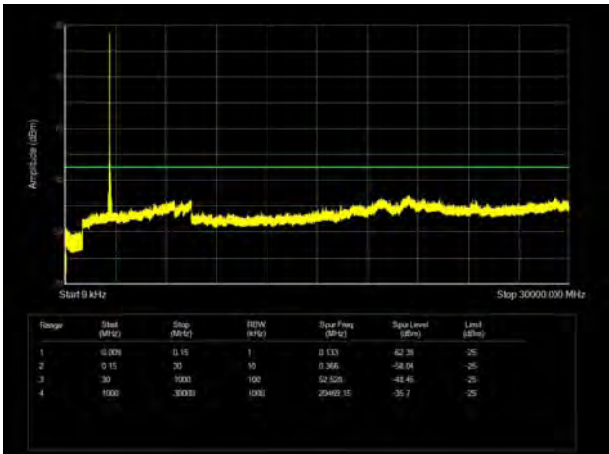
LTE Band 41 15MHz CH- Low 9kHz~30GHz



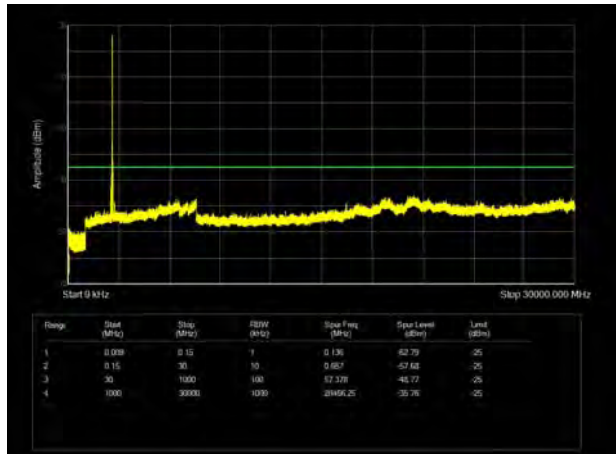
LTE Band 41 20MHz CH-Low 9kHz~30GHz



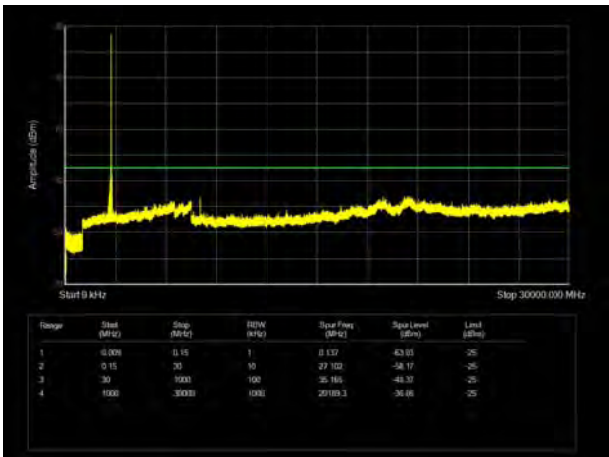
LTE Band 41 15MHz CH- Middle 9kHz~30GHz



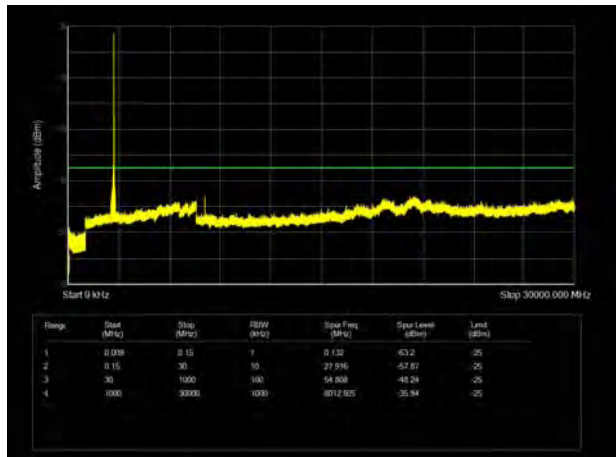
LTE Band 41 20MHz CH- Middle 9kHz~30GHz



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

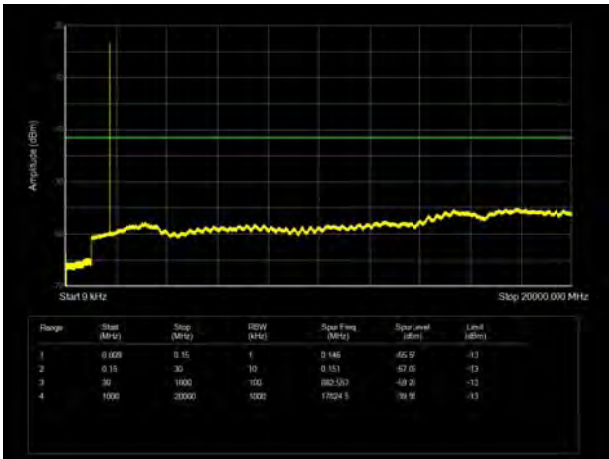


LTE Band 41 20MHz CH- High 9kHz~30GHz

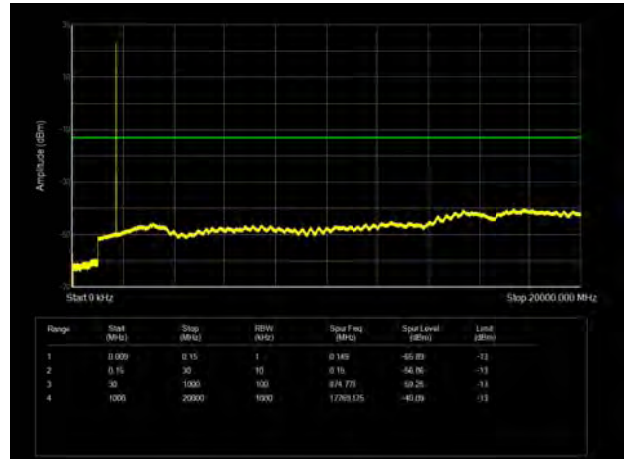




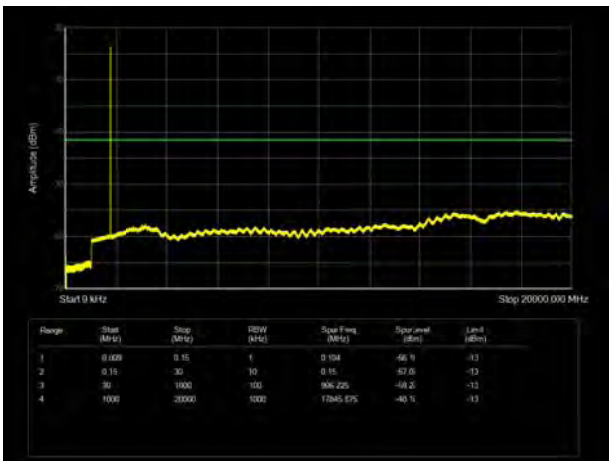
LTE Band 66 1.4MHz CH-Low 9kHz ~20GHz



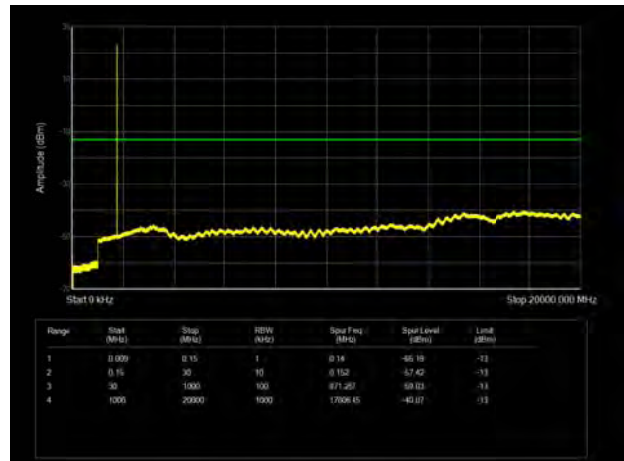
LTE Band 66 3MHz CH-Low 9kHz ~20GHz



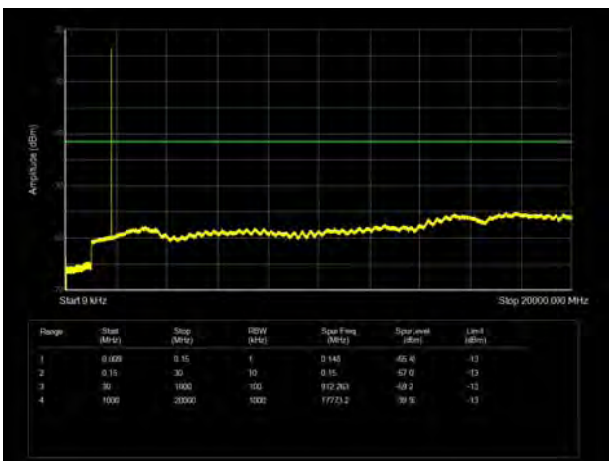
LTE Band 66 1.4MHz CH-Middle 9kHz ~20GHz



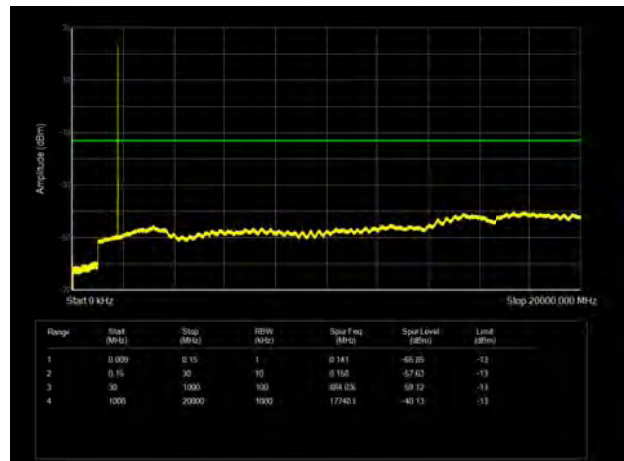
LTE Band 66 3MHz CH-Middle 9kHz ~20GHz



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

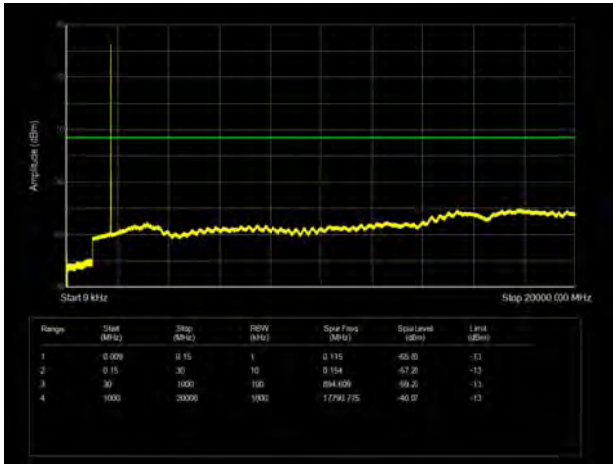


LTE Band 66 3MHz CH-High 9kHz ~20GHz

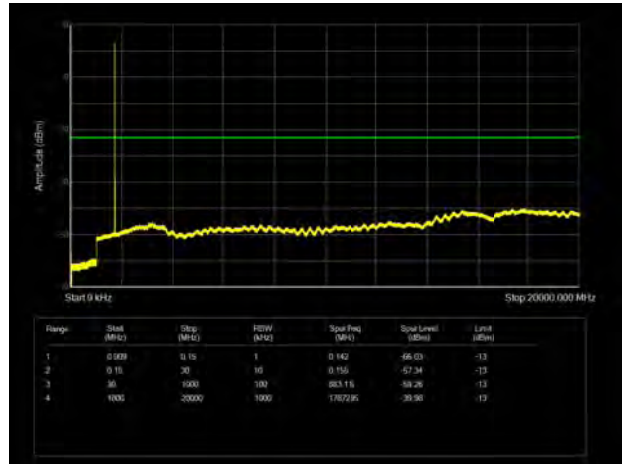




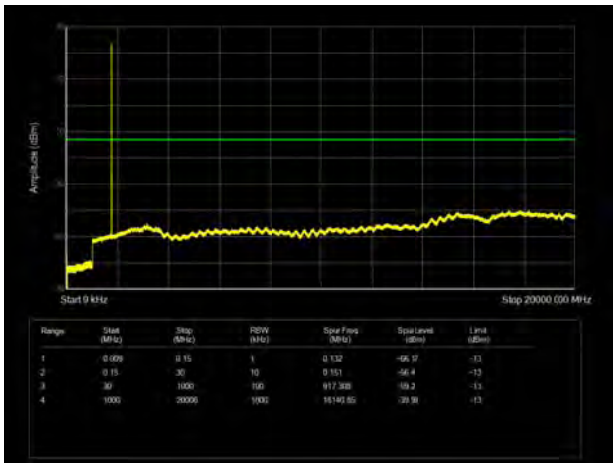
LTE Band 66 5MHz CH-Low 9kHz ~20GHz



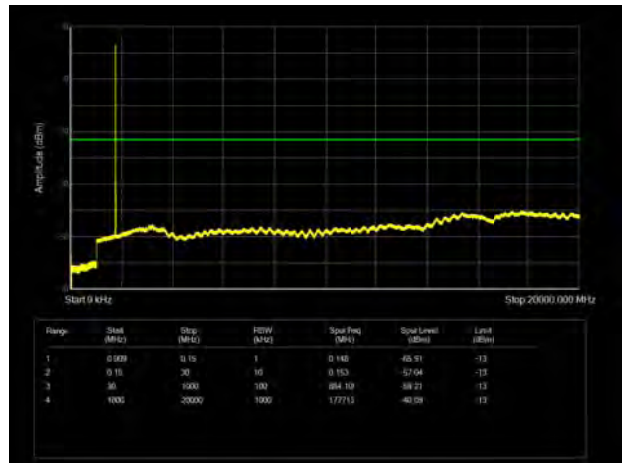
LTE Band 66 10MHz CH-Low 9kHz ~20GHz



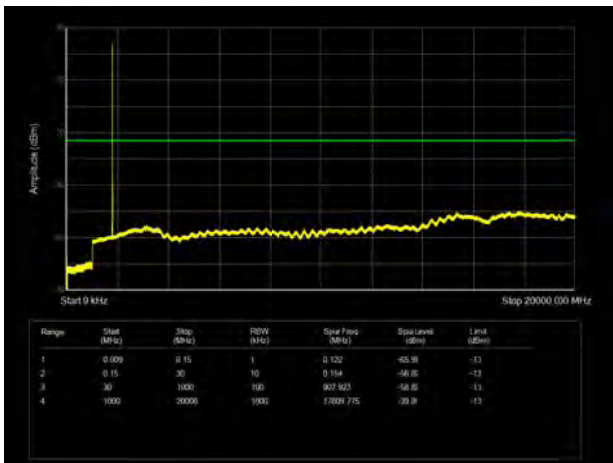
LTE Band 66 5MHz CH-Middle 9kHz ~20GHz



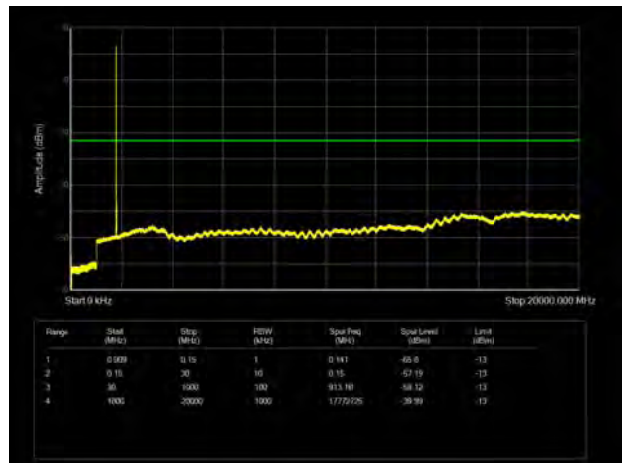
LTE Band 66 10MHz CH-Middle 9kHz ~20GHz



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

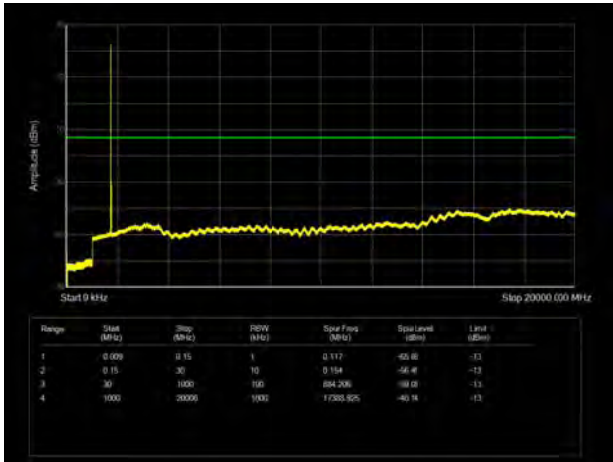


LTE Band 66 10MHz CH-High 9kHz ~20GHz

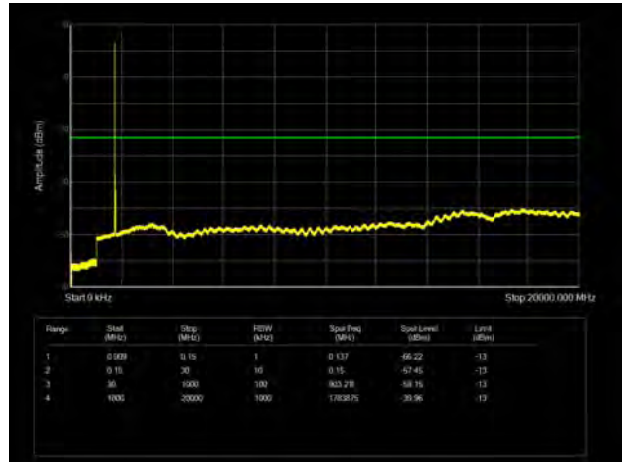




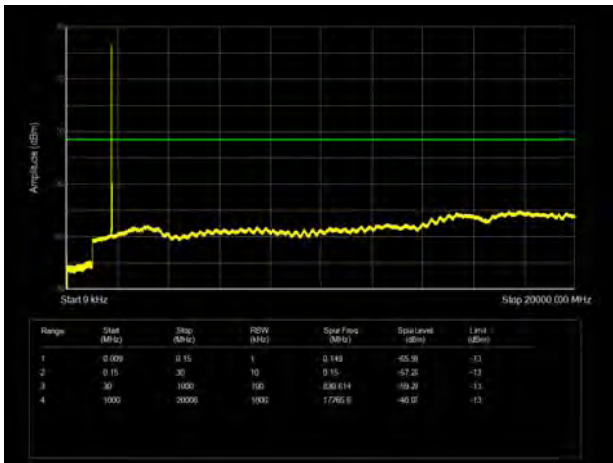
LTE Band 66 15MHz CH-Low 9kHz ~20GHz



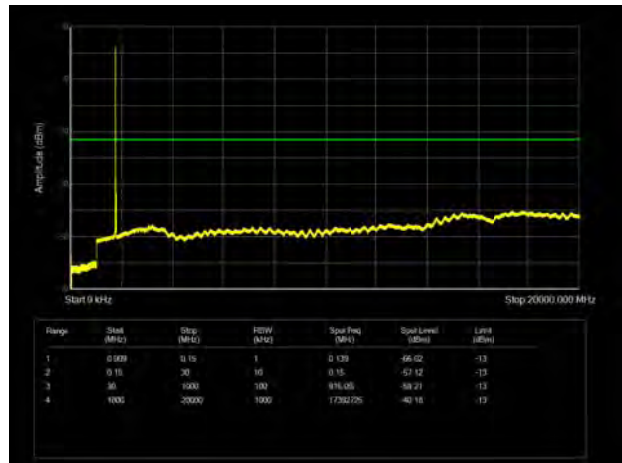
LTE Band 66 20MHz CH-Low 9kHz ~20GHz



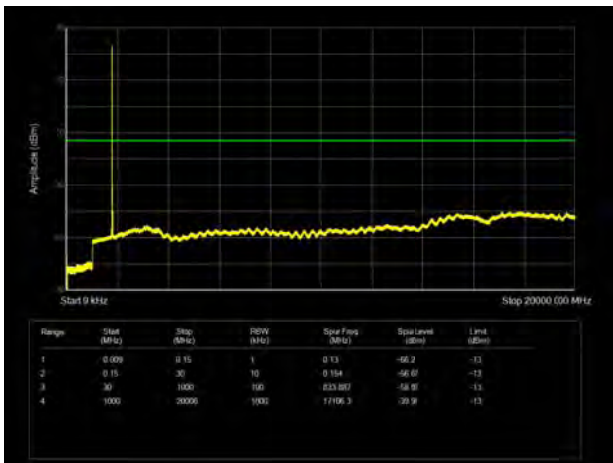
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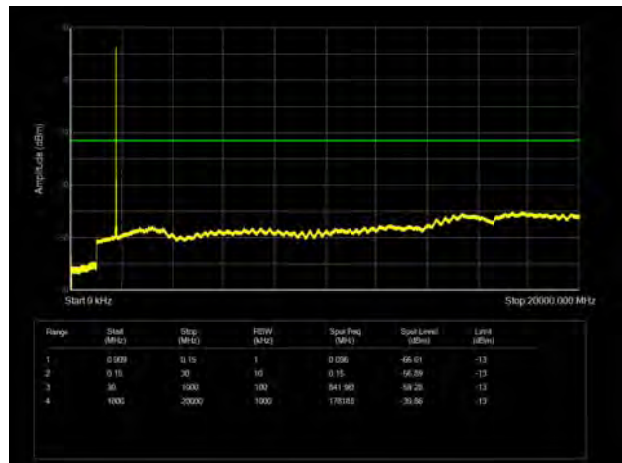
LTE Band 66 20MHz CH-Middle 9kHz ~20GHz



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

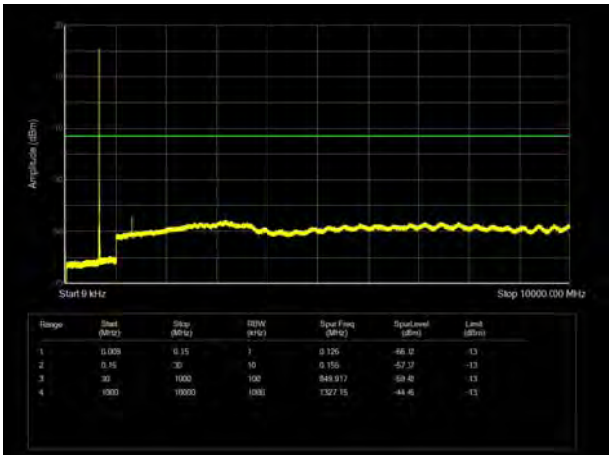


LTE Band 66 20MHz CH-High 9kHz ~20GHz

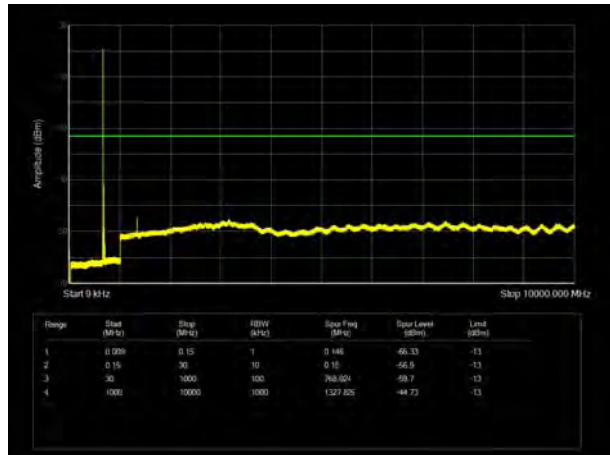




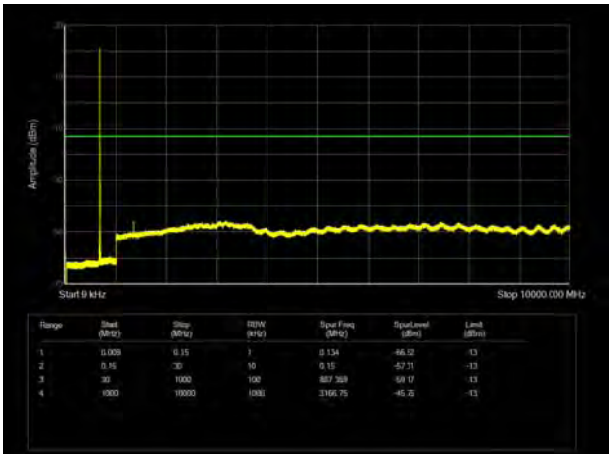
LTE Band 71 5MHz CH-Low 9kHz ~10GHz



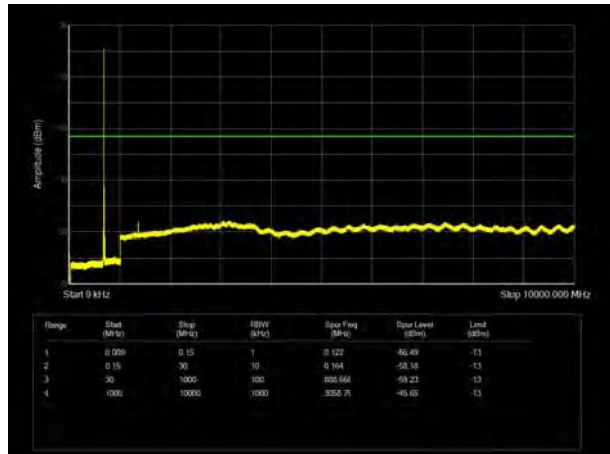
LTE Band 71 10MHz CH-Low 9kHz ~10GHz



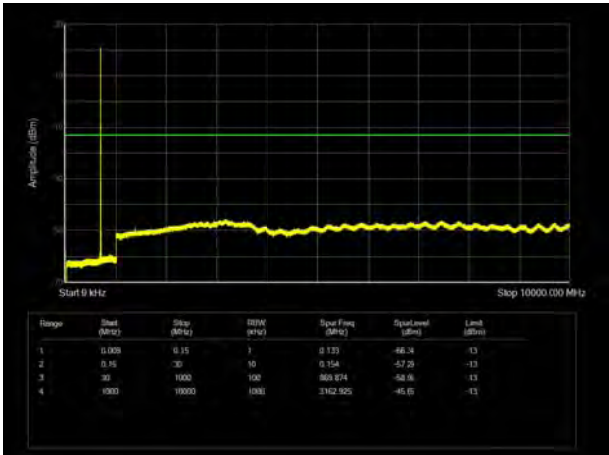
LTE Band 71 5MHz CH-Middle 9kHz ~10GHz



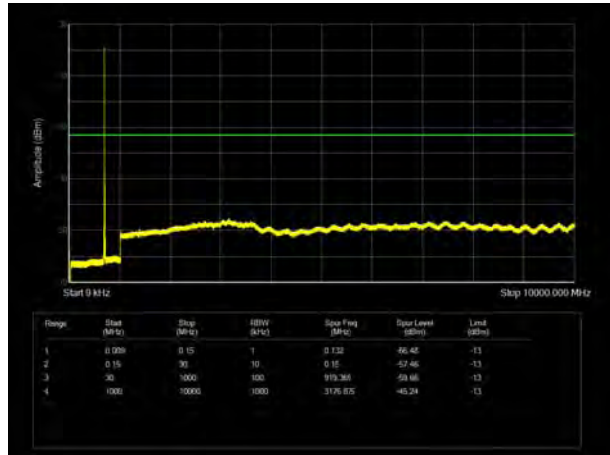
LTE Band 71 10MHz CH-Middle 9kHz ~10GHz



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

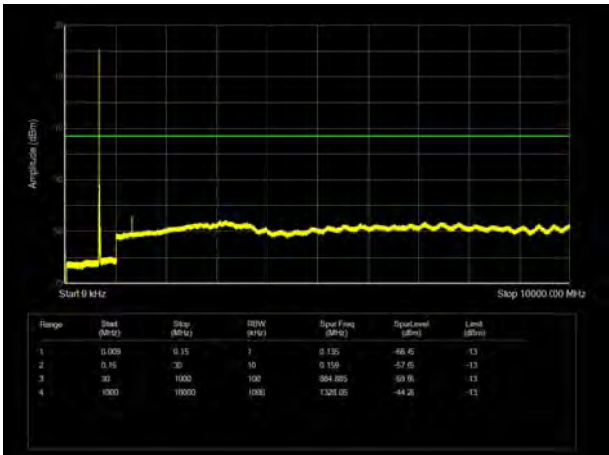


LTE Band 71 10MHz CH-High 9kHz ~10GHz

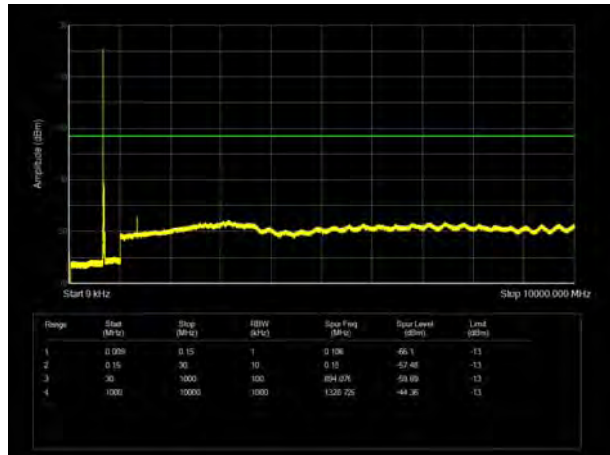




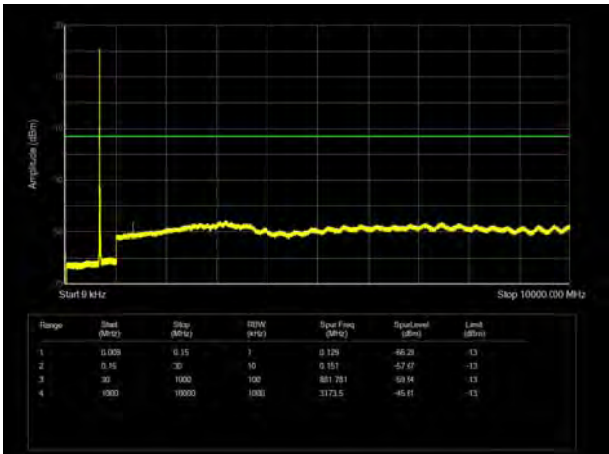
LTE Band 71 15MHz CH-Low 9kHz ~10GHz



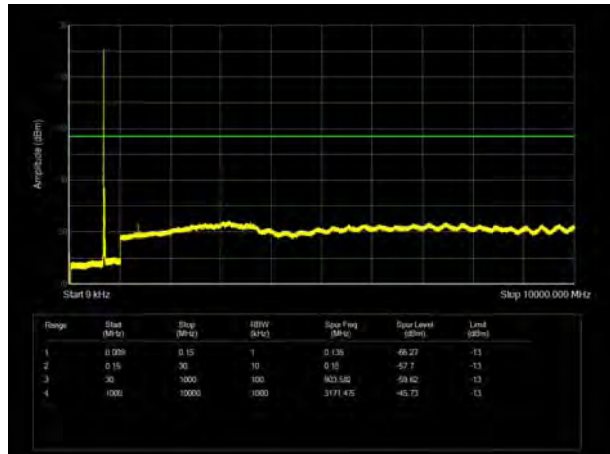
LTE Band 71 20MHz CH-Low 9kHz ~10GHz



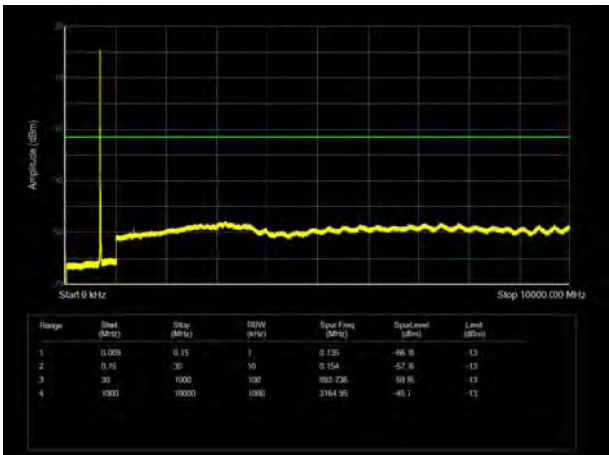
LTE Band 71 15MHz CH-Middle 9kHz ~10GHz



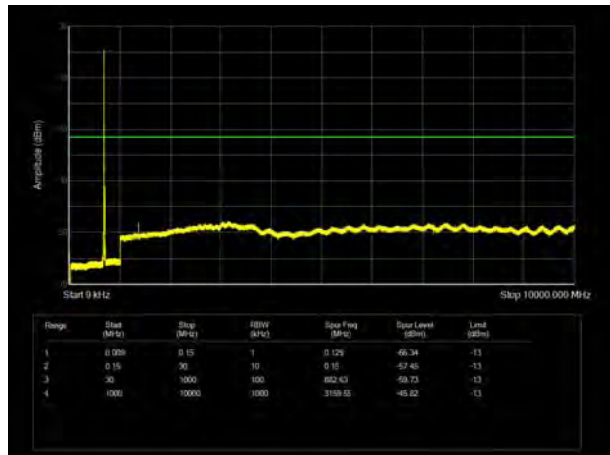
LTE Band 71 20MHz CH-Middle 9kHz ~10GHz



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

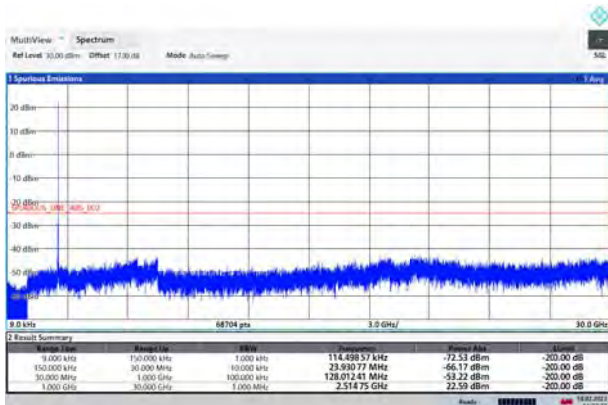


LTE Band 71 20MHz CH-High 9kHz ~10GHz



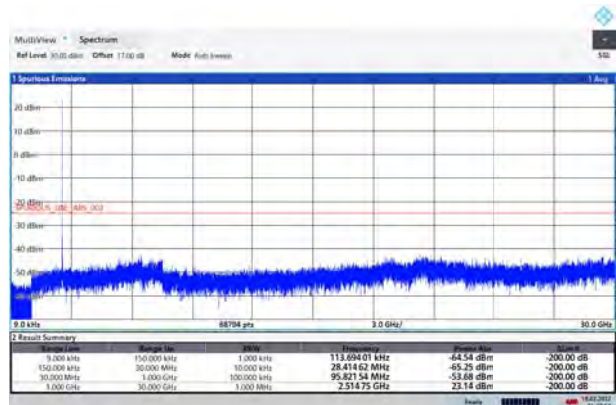


CA_41C QPSK 20MHz+5MHz CH- Low 9kHz~30GHz



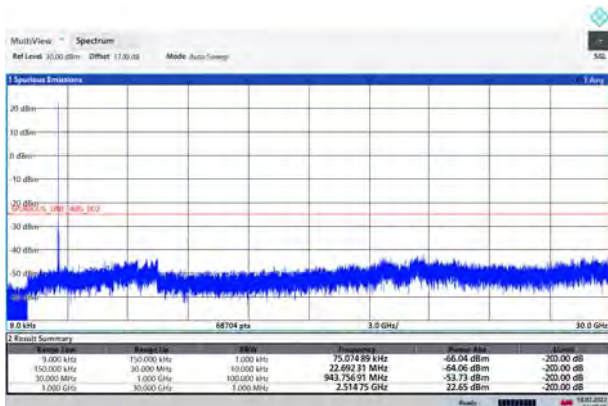
11:27:24 18.02.2022

CA_41C QPSK 20MHz+20MHz CH- Low 9kHz~30GHz



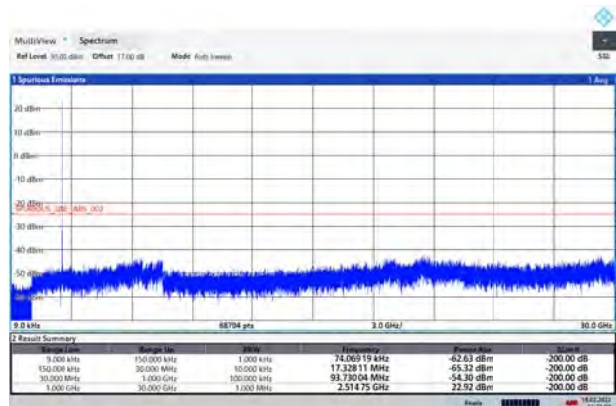
11:28:55 18.02.2022

CA_41C 16QAM 20MHz+5MHz CH- Low 9kHz~30GHz



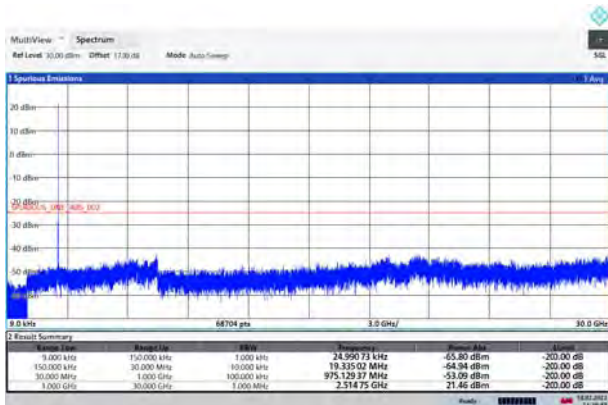
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CA_41C 16QAM 20MHz+20MHz CH- Low 9kHz~30GHz



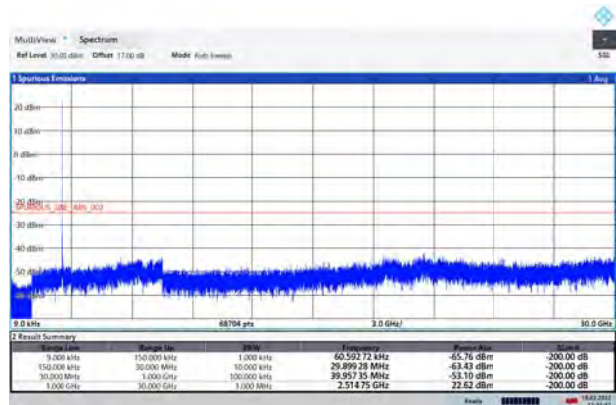
11:31:09 18.02.2022

CA_41C 64QAM 20MHz+5MHz CH- Low 9kHz~30GHz



11:28:50 18.02.2022

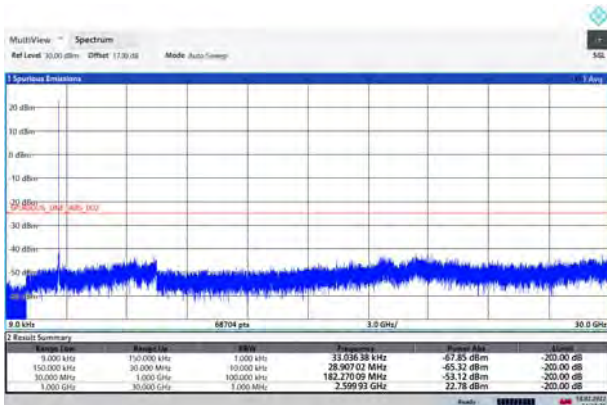
CA_41C 64QAM 20MHz+20MHz CH- Low 9kHz~30GHz



11:31:47 18.02.2022

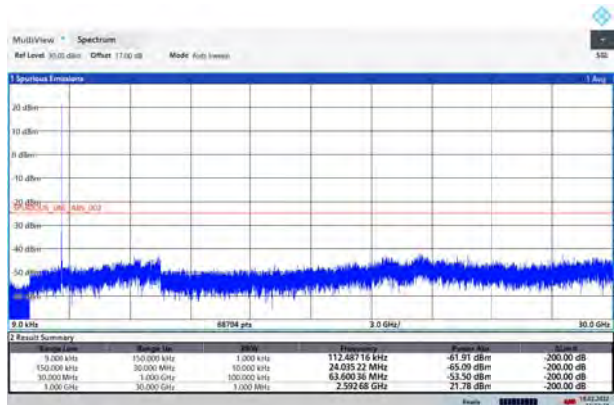


CA_41C QPSK 20MHz+5MHz CH- Middle 9kHz~30GHz



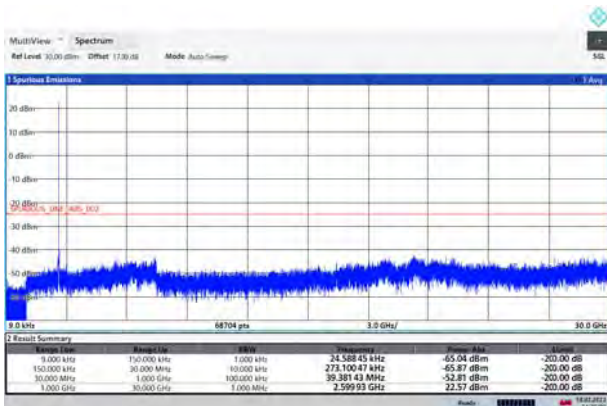
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CA_41C QPSK 20MHz+20MHz CH- Middle 9kHz~30GHz



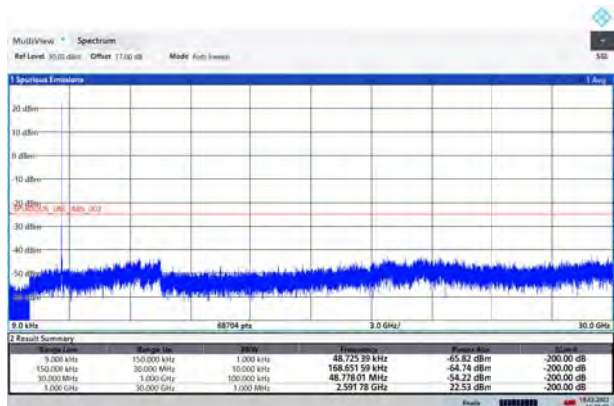
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CA_41C 16QAM 20MHz+5MHz CH- Middle 9kHz~30GHz



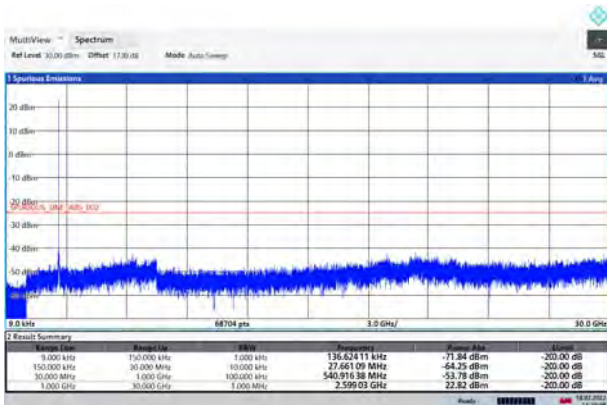
11:25:01 18. 02. 2022

CA_41C 16QAM 20MHz+20MHz CH- Middle 9kHz~30GHz



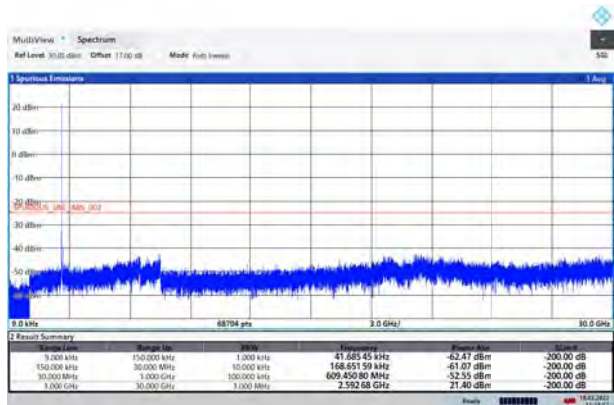
11:34:02 18. 02. 2022

CA_41C 64QAM 20MHz+5MHz CH- Middle 9kHz~30GHz



11:24:08 18. 02. 2022

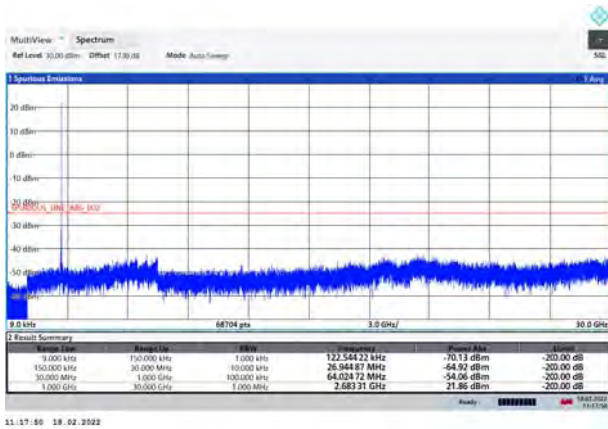
CA_41C 64QAM 20MHz+20MHz CH- Middle 9kHz~30GHz



11:34:58 18. 02. 2022

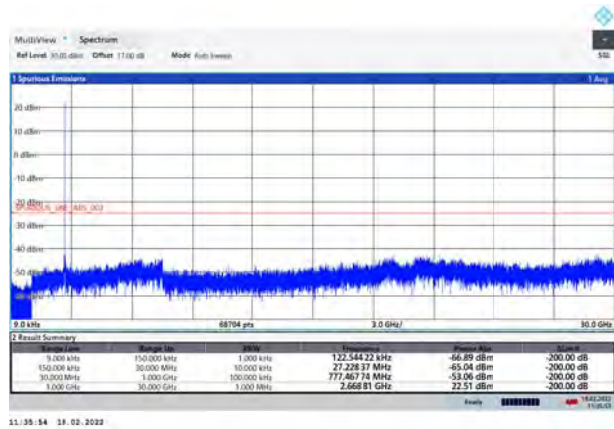


CA_41C QPSK 20MHz+5MHz CH- High 9kHz~30GHz



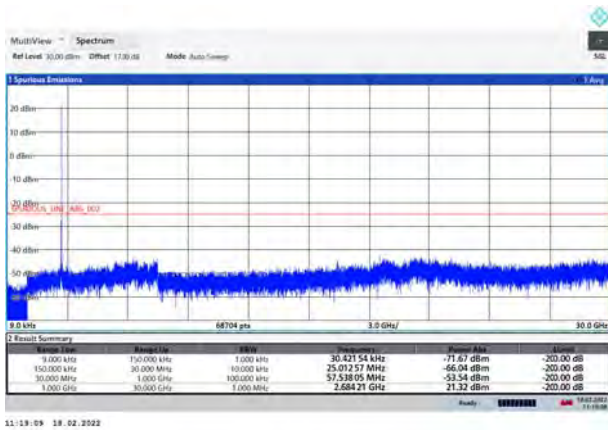
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CA_41C QPSK 20MHz+20MHz CH- High 9kHz~30GHz



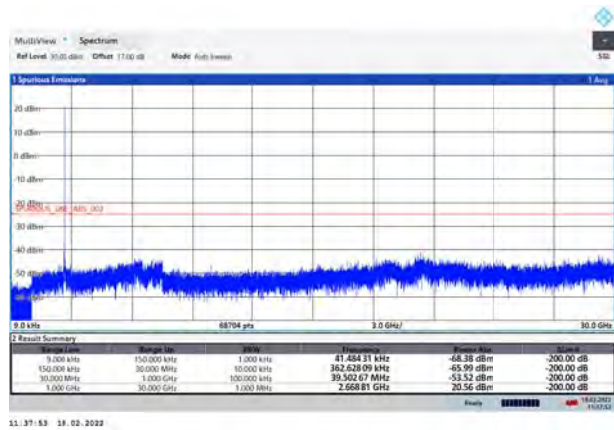
11:35:54 18. 02. 2022

CA_41C 16QAM 20MHz+5MHz CH- High 9kHz~30GHz



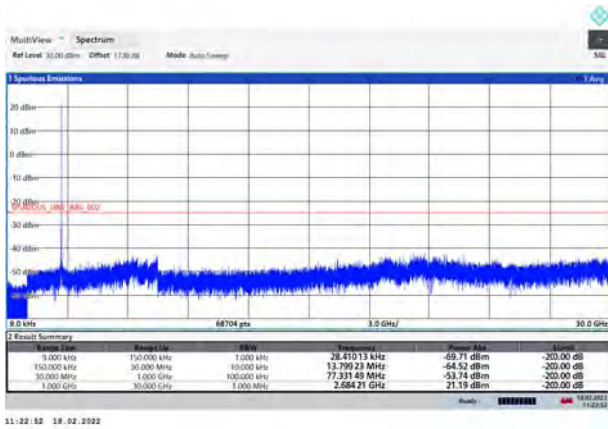
11:19:09 18. 02. 2022

CA_41C 16QAM 20MHz+20MHz CH- High 9kHz~30GHz



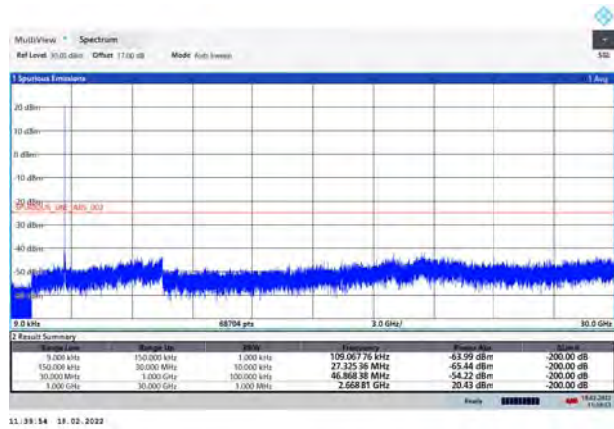
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CA_41C 64QAM 20MHz+5MHz CH- High 9kHz~30GHz



11:22:52 18. 02. 2022

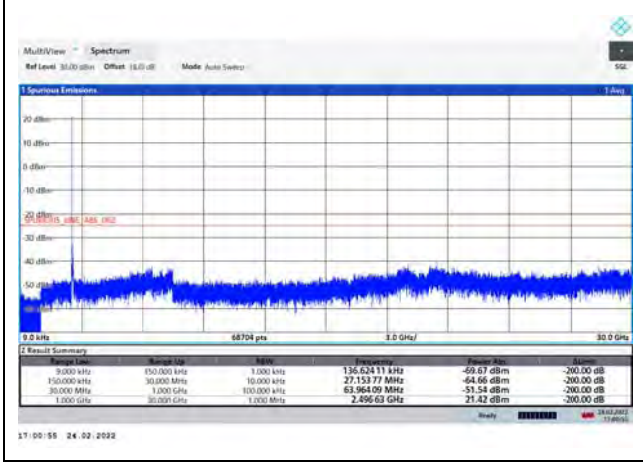
CA_41C 64QAM 20MHz+20MHz CH- High 9kHz~30GHz



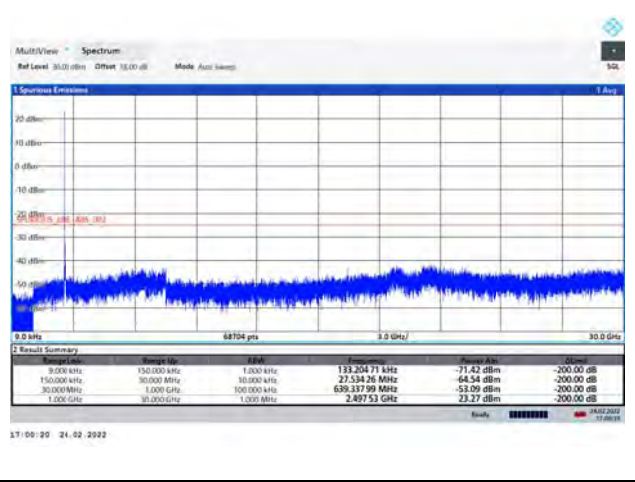
11:39:54 18. 02. 2022



NR n41 P1/2 BPSK 30MHz CH-Low 9kHz~30GHz



NR n41 QPSK 30MHz CH-Low 9kHz~30GHz



NR n41 P1/2 BPSK 30MHz CH-Middle 9kHz~30GHz



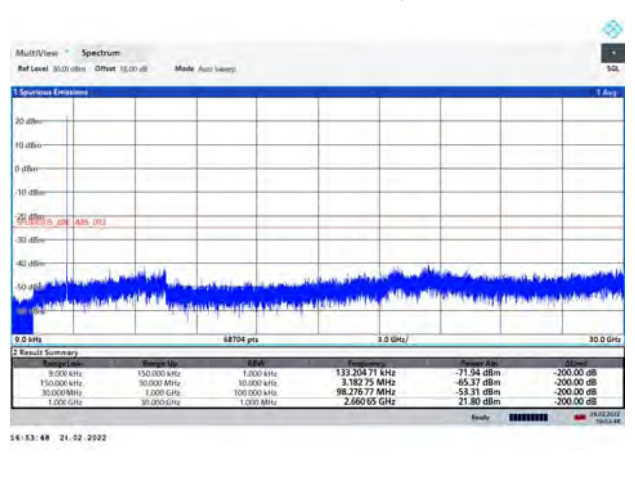
NR n41 QPSK 30MHz CH-Middle 9kHz~30GHz



NR n41 P1/2 BPSK 30MHz CH-High 9kHz~30GHz



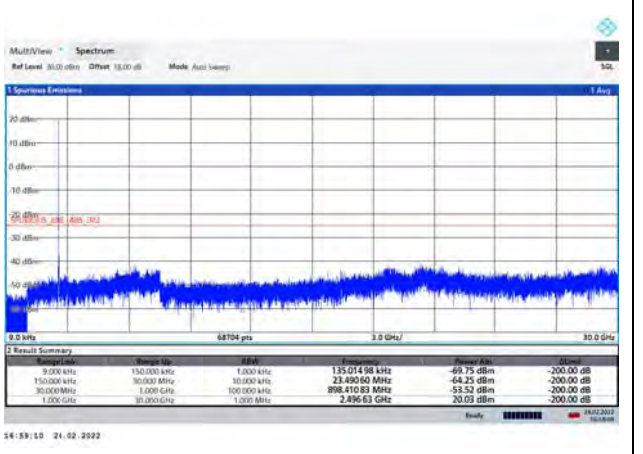
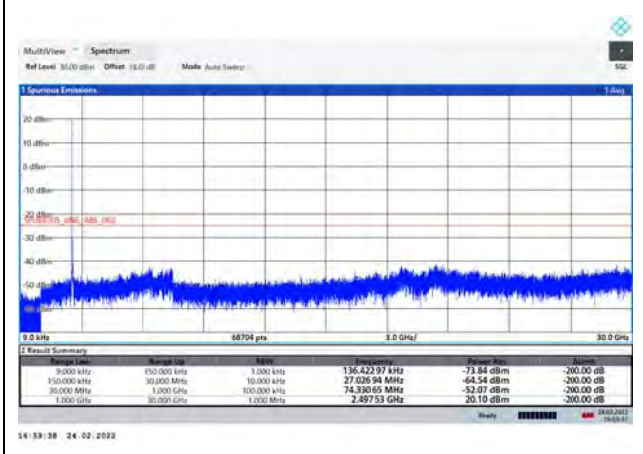
NR n41 QPSK 30MHz CH-High 9kHz~30GHz





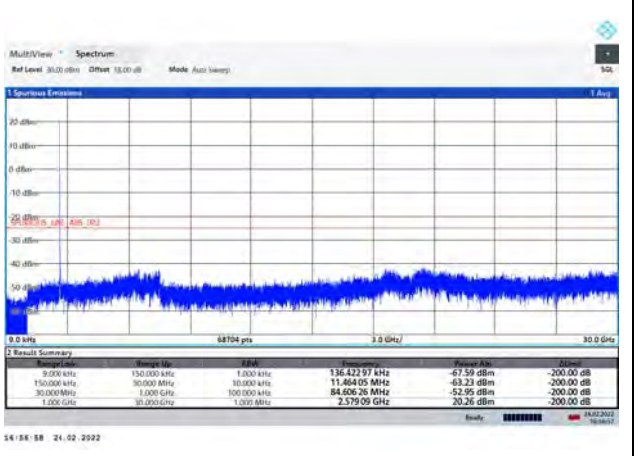
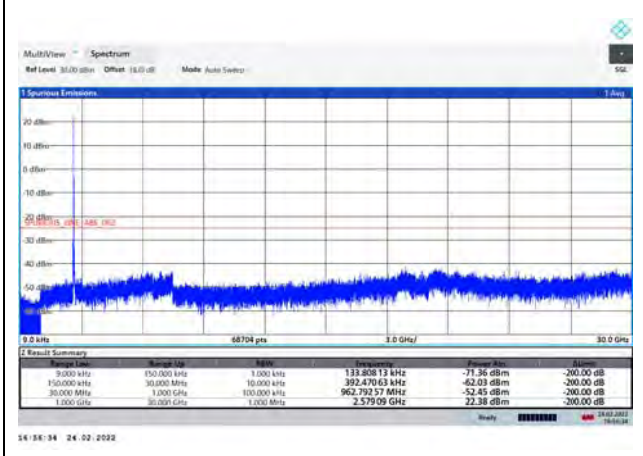
NR n41 16QAM 30MHz CH-Low 9kHz~30GHz

NR n41 64QAM 30MHz CH-Low 9kHz~30GHz



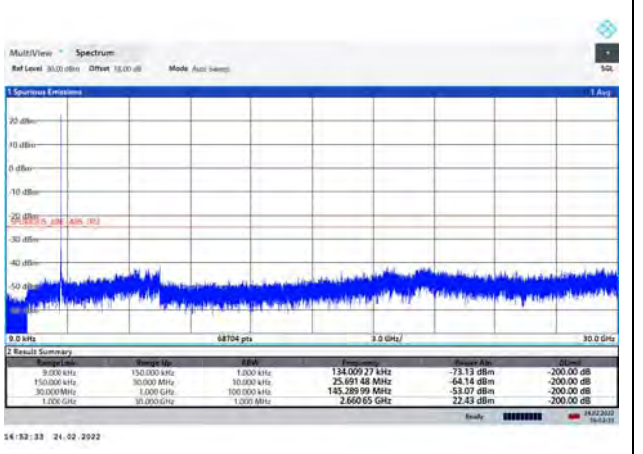
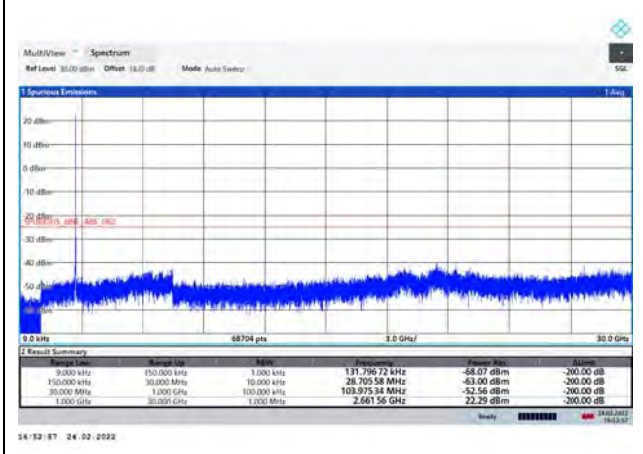
NR n41 16QAM 30MHz CH-Middle 9kHz~30GHz

NR n41 64QAM 30MHz CH-Middle 9kHz~30GHz



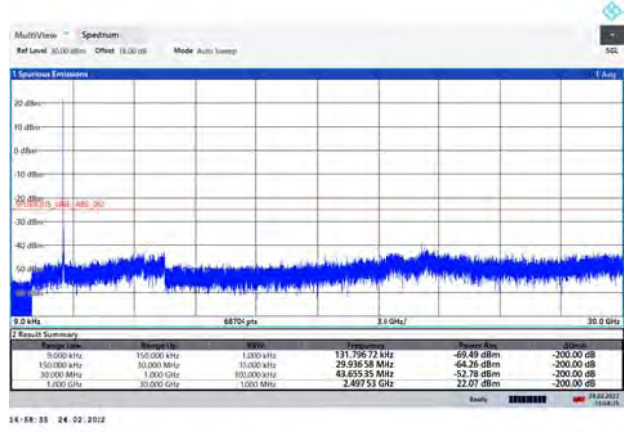
NR n41 16QAM 30MHz CH-High 9kHz~30GHz

NR n41 64QAM 30MHz CH-High 9kHz~30GHz

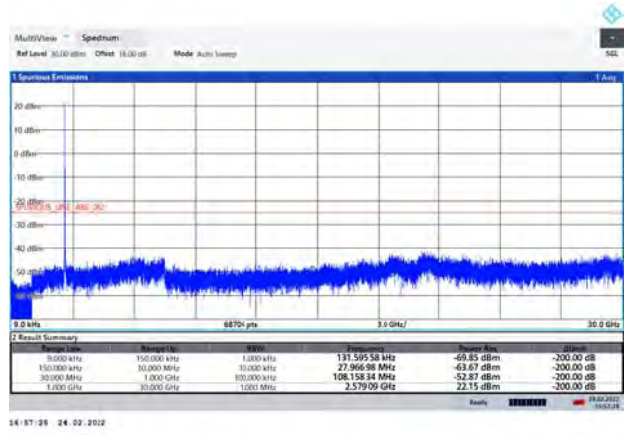




NR n41 256QAM 30MHz CH-Low 9kHz~30GHz



NR n41 256QAM 30MHz CH-Middle 9kHz~30GHz



NR n41 256QAM 30MHz CH-High 9kHz~30GHz

