



# Appendix B

## E-UTRA Band CA\_2A-4A



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## 1 Effective (Isotropic) Radiated Power Output Data

### 1.1.1. Max Power Test Result for LTE Band CA\_2A-4A

#### PCC

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	15MHz	QPSK	18675	1RB#0	23.16	27.16	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.77	26.77	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.88	26.88	33	PASS
Band2	15MHz	QPSK	18675	36RB#0	21.69	25.69	33	PASS
Band2	15MHz	QPSK	18675	36RB#18	21.79	25.79	33	PASS
Band2	15MHz	QPSK	18675	36RB#39	21.69	25.69	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.66	25.66	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.23	27.23	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.81	26.81	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.87	26.87	33	PASS
Band2	15MHz	QPSK	18900	36RB#18	21.96	25.96	33	PASS
Band2	15MHz	QPSK	18900	36RB#39	21.58	25.58	33	PASS
Band2	15MHz	QPSK	18900	36RB#0	21.81	25.81	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.87	25.87	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.12	27.12	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.67	26.67	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.06	27.06	33	PASS
Band2	15MHz	QPSK	19125	36RB#39	22.02	26.02	33	PASS
Band2	15MHz	QPSK	19125	36RB#0	21.68	25.68	33	PASS
Band2	15MHz	QPSK	19125	36RB#18	21.90	25.9	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.99	25.99	33	PASS
Band2	15MHz	64QAM	18675	1RB#0	20.70	24.70	33	PASS
Band2	15MHz	64QAM	18675	1RB#74	20.74	24.74	33	PASS
Band2	15MHz	64QAM	18675	1RB#38	20.75	24.75	33	PASS
Band2	15MHz	64QAM	18675	36RB#39	19.68	23.68	33	PASS
Band2	15MHz	64QAM	18675	36RB#18	19.56	23.56	33	PASS
Band2	15MHz	64QAM	18675	36RB#0	19.30	23.30	33	PASS



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Band2	15MHz	64QAM	18675	75RB#0	19.48	23.48	33	PASS
Band2	15MHz	64QAM	18900	1RB#0	20.83	24.83	33	PASS
Band2	15MHz	64QAM	18900	1RB#74	20.58	24.58	33	PASS
Band2	15MHz	64QAM	18900	1RB#38	20.50	24.50	33	PASS
Band2	15MHz	64QAM	18900	36RB#0	19.57	23.57	33	PASS
Band2	15MHz	64QAM	18900	36RB#39	19.72	23.72	33	PASS
Band2	15MHz	64QAM	18900	36RB#18	19.51	23.51	33	PASS
Band2	15MHz	64QAM	18900	75RB#0	19.23	23.23	33	PASS
Band2	15MHz	64QAM	19125	1RB#38	20.33	24.33	33	PASS
Band2	15MHz	64QAM	19125	1RB#0	20.40	24.40	33	PASS
Band2	15MHz	64QAM	19125	1RB#74	20.60	24.60	33	PASS
Band2	15MHz	64QAM	19125	36RB#18	19.88	23.88	33	PASS
Band2	15MHz	64QAM	19125	36RB#39	19.23	23.23	33	PASS
Band2	15MHz	64QAM	19125	36RB#0	19.16	23.16	33	PASS
Band2	15MHz	64QAM	19125	75RB#0	19.36	23.36	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.00	26.00	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.59	25.59	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.76	25.76	33	PASS
Band2	15MHz	16QAM	18675	36RB#39	20.92	24.92	33	PASS
Band2	15MHz	16QAM	18675	36RB#18	20.70	24.70	33	PASS
Band2	15MHz	16QAM	18675	36RB#0	20.93	24.93	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.67	24.67	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.07	26.07	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.36	25.36	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.90	25.90	33	PASS
Band2	15MHz	16QAM	18900	36RB#18	20.99	24.99	33	PASS
Band2	15MHz	16QAM	18900	36RB#39	20.47	24.47	33	PASS
Band2	15MHz	16QAM	18900	36RB#0	20.58	24.58	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.74	24.74	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.03	26.03	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.31	25.31	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.89	25.89	33	PASS
Band2	15MHz	16QAM	19125	36RB#0	20.78	24.78	33	PASS



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Band2	15MHz	16QAM	19125	36RB#39	20.44	24.44	33	PASS
Band2	15MHz	16QAM	19125	36RB#18	20.49	24.49	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.74	24.74	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.80	26.80	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.44	26.44	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.02	27.02	33	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.92	25.92	33	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.73	25.73	33	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.63	25.63	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.77	25.77	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.70	26.70	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.41	26.41	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.79	26.79	33	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.70	25.70	33	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.57	25.57	33	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.51	25.51	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.58	25.58	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.82	26.82	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.25	26.25	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.72	26.72	33	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.69	25.69	33	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.36	25.36	33	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.49	25.49	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.22	25.22	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	21.04	25.04	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	20.96	24.96	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	20.72	24.72	33	PASS
Band2	20MHz	64QAM	18700	50RB#50	19.98	23.98	33	PASS
Band2	20MHz	64QAM	18700	50RB#25	19.88	23.88	33	PASS
Band2	20MHz	64QAM	18700	50RB#0	19.81	23.81	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	19.65	23.65	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	20.82	24.82	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	20.82	24.82	33	PASS





Band2	20MHz	64QAM	18900	1RB#49	20.52	24.52	33	PASS
Band2	20MHz	64QAM	18900	50RB#50	19.77	23.77	33	PASS
Band2	20MHz	64QAM	18900	50RB#25	19.80	23.80	33	PASS
Band2	20MHz	64QAM	18900	50RB#0	19.59	23.59	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	19.58	23.58	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	20.46	24.46	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	20.54	24.54	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	20.84	24.84	33	PASS
Band2	20MHz	64QAM	19100	50RB#25	19.84	23.84	33	PASS
Band2	20MHz	64QAM	19100	50RB#50	19.68	23.68	33	PASS
Band2	20MHz	64QAM	19100	50RB#0	19.42	23.42	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	19.63	23.63	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.85	25.85	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.87	25.87	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.01	26.01	33	PASS
Band2	20MHz	16QAM	18700	50RB#0	20.79	24.79	33	PASS
Band2	20MHz	16QAM	18700	50RB#25	20.61	24.61	33	PASS
Band2	20MHz	16QAM	18700	50RB#50	20.46	24.46	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.76	24.76	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.16	26.16	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.72	25.72	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.86	25.86	33	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.38	24.38	33	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.57	24.57	33	PASS
Band2	20MHz	16QAM	18900	50RB#50	20.31	24.31	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.63	24.63	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.14	26.14	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.77	25.77	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.02	26.02	33	PASS
Band2	20MHz	16QAM	19100	50RB#50	20.46	24.46	33	PASS
Band2	20MHz	16QAM	19100	50RB#25	20.45	24.45	33	PASS
Band2	20MHz	16QAM	19100	50RB#0	20.40	24.40	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.47	24.47	33	PASS



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Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	10MHz	QPSK	20000	1RB#0	21.49	25.49	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	21.95	25.95	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.29	26.29	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	20.94	24.94	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.40	25.40	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.28	25.28	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.28	25.28	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.23	26.23	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.21	26.21	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.38	26.38	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.24	25.24	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.54	25.54	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.28	25.28	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.52	25.52	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.16	26.16	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.09	26.09	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.20	26.20	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.44	25.44	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.64	25.64	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.25	25.25	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.52	25.52	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.78	25.78	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.74	25.74	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.87	25.87	30	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.61	24.61	30	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.76	24.76	30	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.63	24.63	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.61	24.61	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.78	25.78	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.04	26.04	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.82	25.82	30	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.97	24.97	30	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.82	24.82	30	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.64	24.64	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.02	25.02	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.85	25.85	30	PASS



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Band4	10MHz	64QAM	20350	1RB#24	21.85	25.85	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.60	25.60	30	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.67	24.67	30	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.96	24.96	30	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.71	24.71	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.66	24.66	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.26	25.26	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	20.45	24.45	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.25	25.25	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.33	24.33	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	19.91	23.91	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.10	24.10	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.19	24.19	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.43	25.43	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.29	25.29	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.52	25.52	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.21	24.21	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.54	24.54	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.38	24.38	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.46	24.46	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.60	25.60	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.70	25.70	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.63	25.63	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.59	24.59	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.49	24.49	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.19	24.19	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.22	24.22	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.49	26.49	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.55	26.55	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.30	26.30	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.47	25.47	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.40	25.40	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.60	25.60	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.32	25.32	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.53	26.53	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.44	26.44	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.29	26.29	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.65	25.65	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.55	25.55	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.72	25.72	30	PASS



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Band4	20MHz	QPSK	20175	100RB#0	21.63	25.63	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.51	26.51	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.52	26.52	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.46	26.46	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.58	25.58	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.65	25.65	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.30	25.30	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.57	25.57	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.59	25.59	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.86	25.86	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.09	26.09	30	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.79	24.79	30	PASS
Band4	20MHz	64QAM	20050	50RB#25	21.01	25.01	30	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.81	24.81	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.79	24.79	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.12	26.12	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.90	25.90	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.97	25.97	30	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.93	24.93	30	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.93	24.93	30	PASS
Band4	20MHz	64QAM	20175	50RB#0	21.01	25.01	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.90	24.90	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.06	26.06	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.71	25.71	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	22.12	26.12	30	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.87	24.87	30	PASS
Band4	20MHz	64QAM	20300	50RB#0	21.06	25.06	30	PASS
Band4	20MHz	64QAM	20300	50RB#25	21.00	25.00	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.76	24.76	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.71	25.71	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.39	25.39	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.72	25.72	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.47	24.47	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.55	24.55	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.31	24.31	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.47	24.47	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.90	25.90	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.74	25.74	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.47	25.47	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.38	24.38	30	PASS



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Band4	20MHz	16QAM	20175	50RB#0	20.54	24.54	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.66	24.66	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.32	24.32	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.78	25.78	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.77	25.77	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.58	25.58	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.41	24.41	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.66	24.66	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.52	24.52	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.40	24.40	30	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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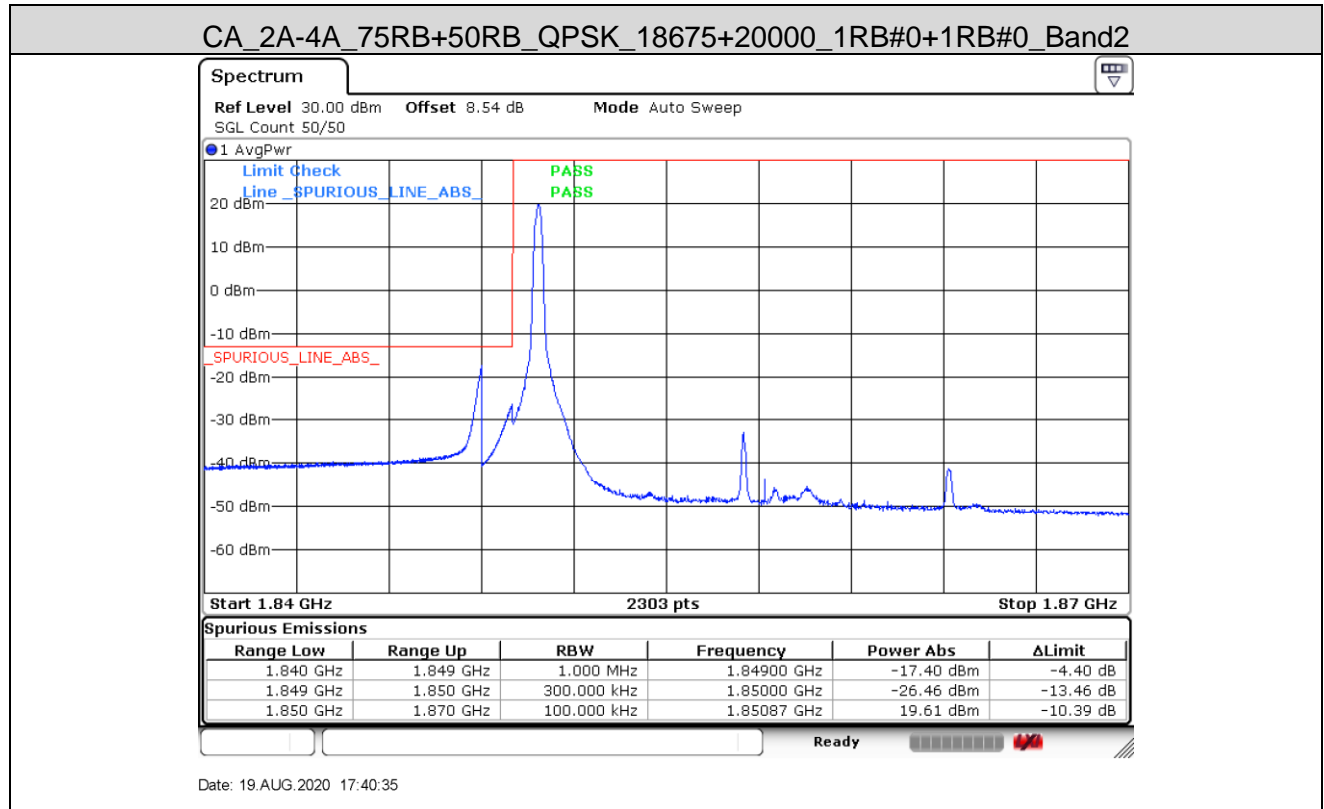
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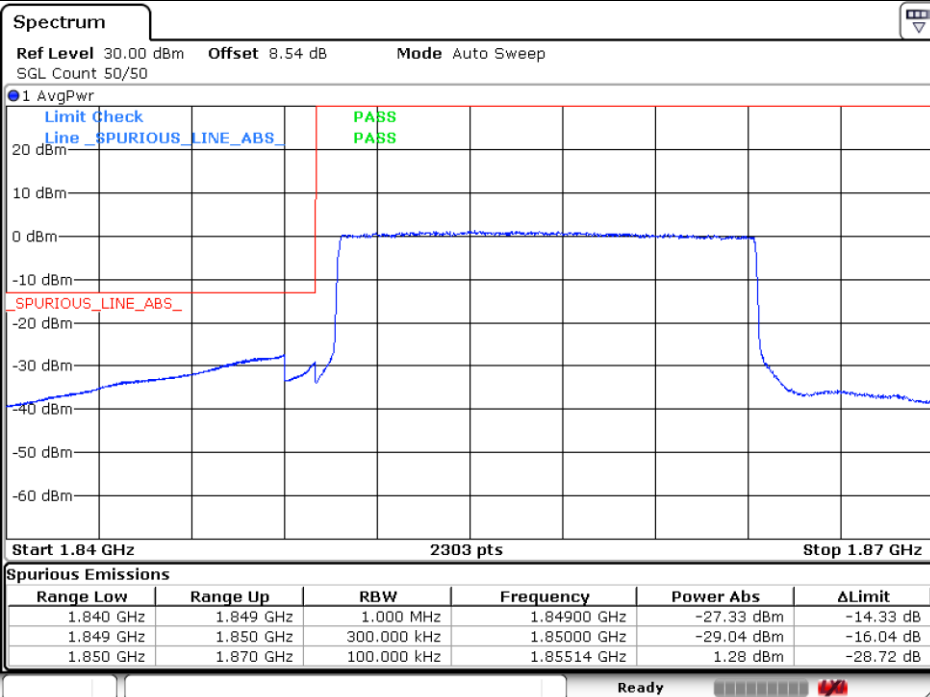
## 2 Band Edges Compliance

### 2.1 For LTE

#### 2.1.1 Test Band = LTE Band CA\_2A-4A



**CA\_2A-4A\_75RB+50RB\_QPSK\_18675+20000\_75RB#0+50RB#0\_Band2**

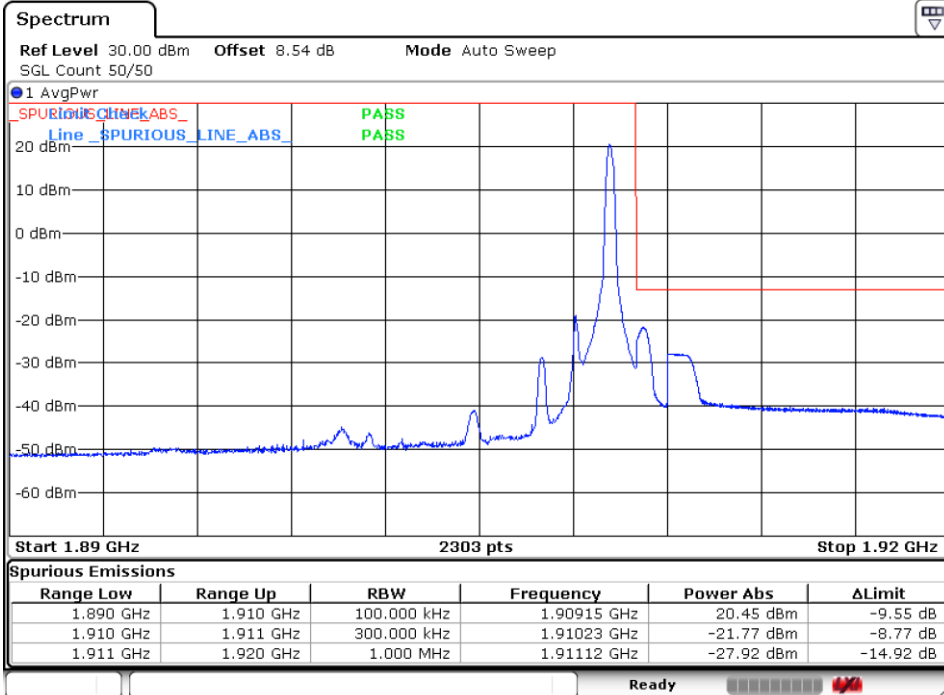


Date: 19.AUG.2020 17:38:32



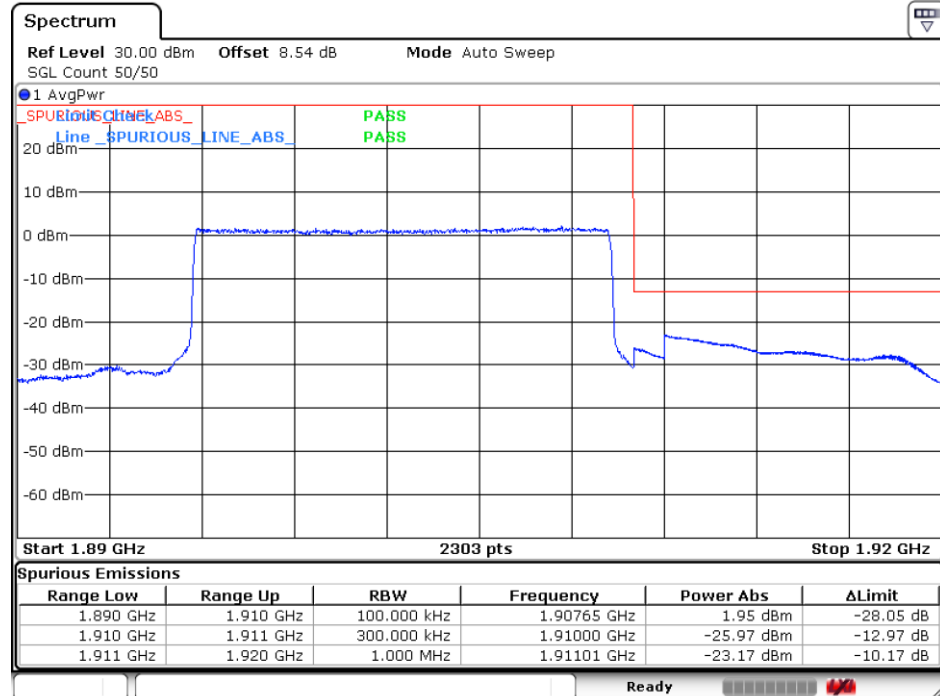


## CA\_2A-4A\_75RB+50RB\_QPSK\_19125+20350\_1RB#74+1RB#49\_Band2



Date: 19.AUG.2020 17:48:02

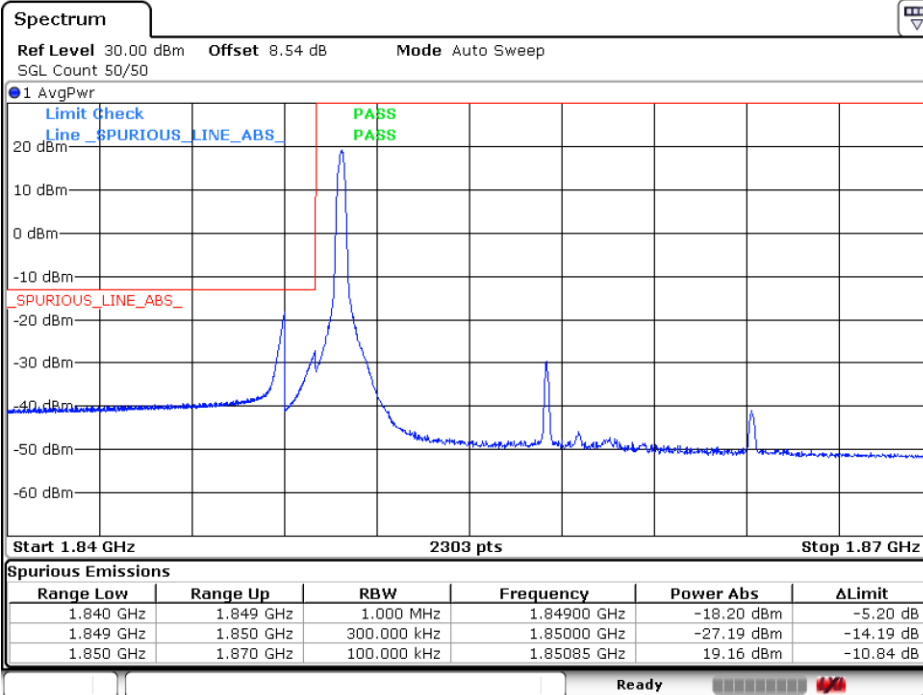
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Date: 19.AUG.2020 17:51:30

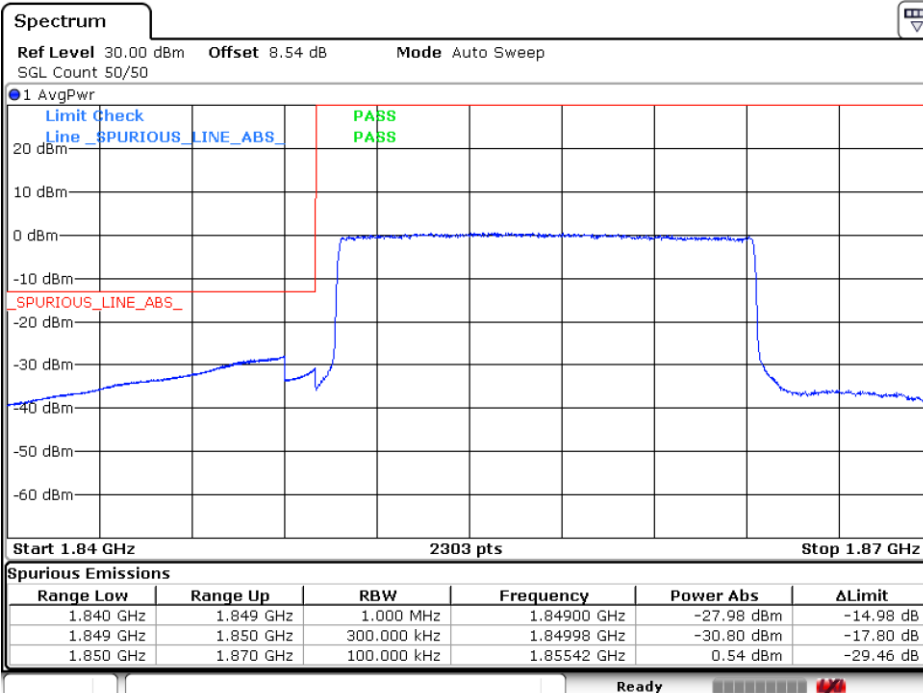


## CA\_2A-4A\_75RB+50RB\_16QAM\_18675+20000\_1RB#0+1RB#0\_Band2



Date: 19.AUG.2020 17:40:03

## CA\_2A-4A\_75RB+50RB\_16QAM\_18675+20000\_75RB#0+50RB#0\_Band2



Date: 19.AUG.2020 17:39:27



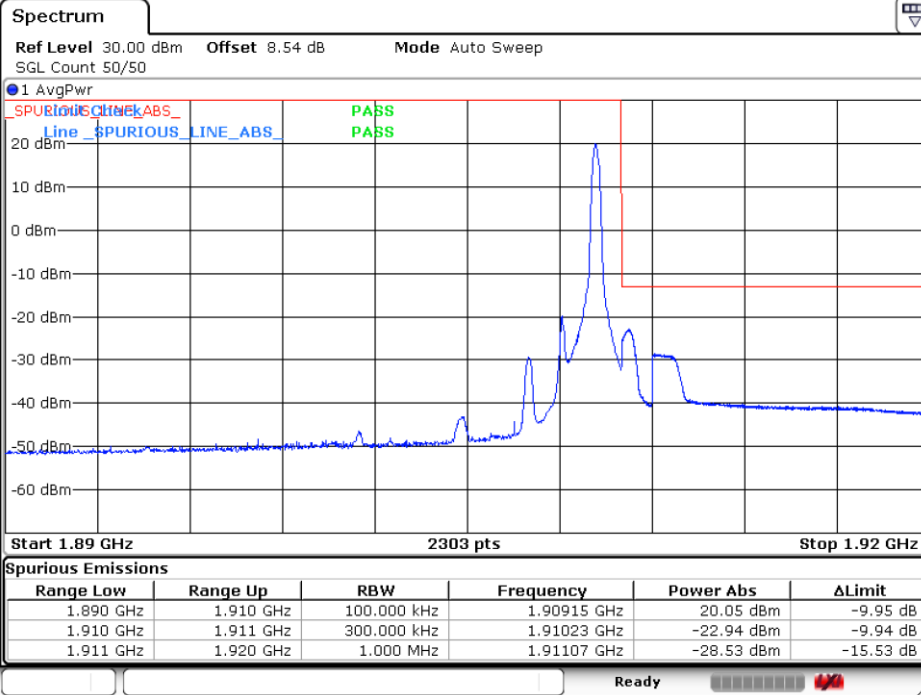
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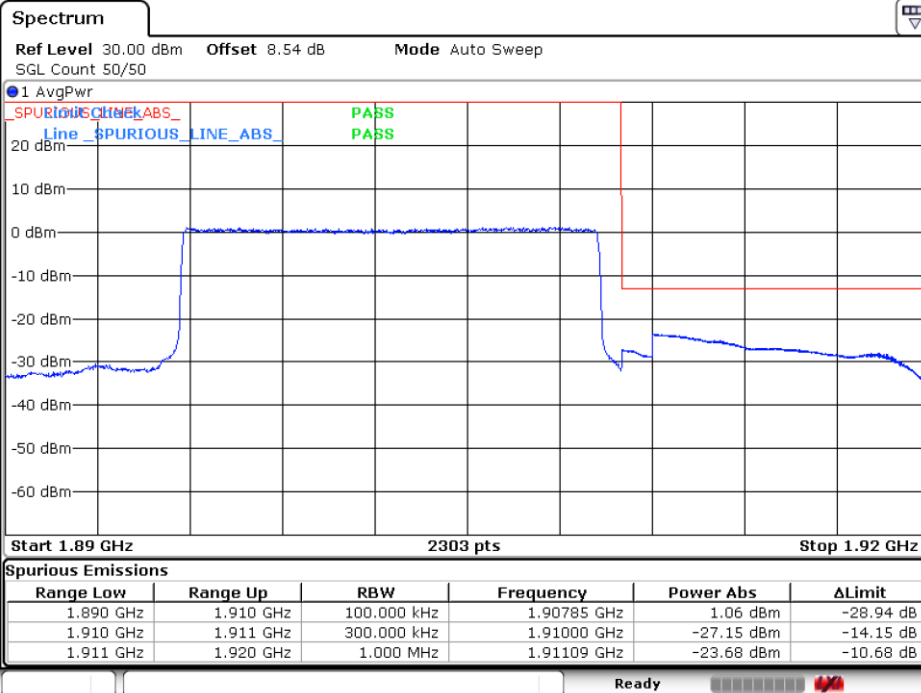
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## CA\_2A-4A\_75RB+50RB\_16QAM\_19125+20350\_1RB#74+1RB#49\_Band2



Date: 19.AUG.2020 17:49:29

## CA\_2A-4A\_75RB+50RB\_16QAM\_19125+20350\_75RB#0+50RB#0\_Band2



Date: 19.AUG.2020 17:50:54



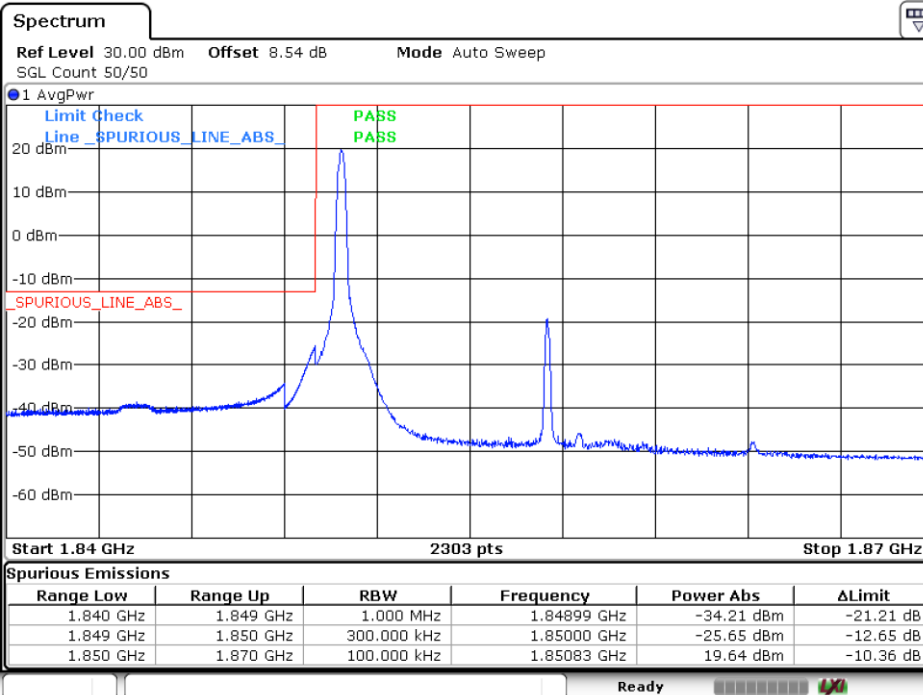
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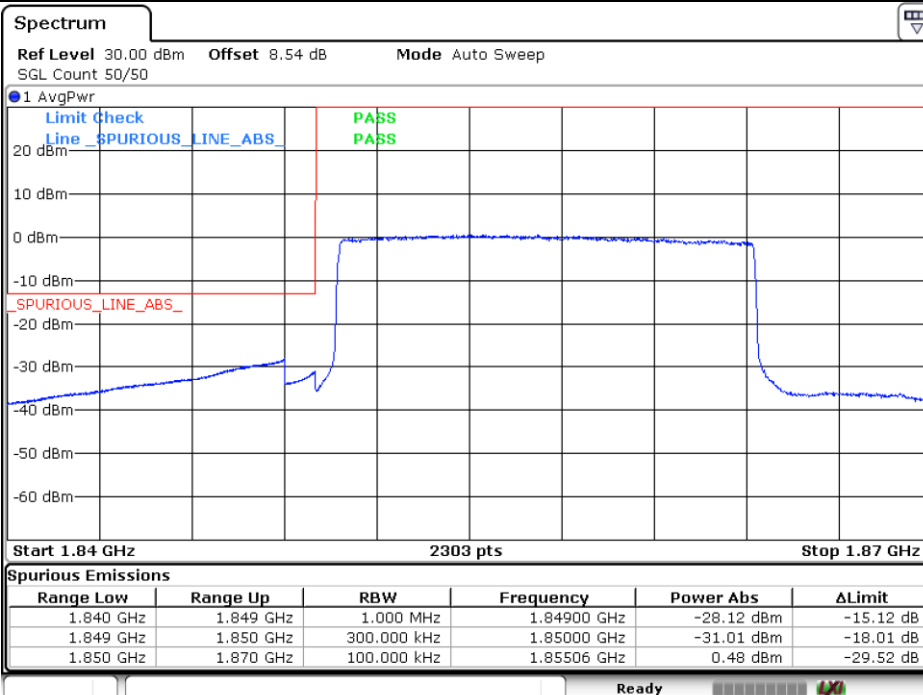
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## CA\_2A-4A\_75RB+50RB\_64QAM\_18675+20000\_1RB#0+1RB#0\_Band2



Date: 23.AUG.2020 21:35:00

## CA\_2A-4A\_75RB+50RB\_64QAM\_18675+20000\_75RB#0+50RB#0\_Band2



Date: 23.AUG.2020 21:33:56



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## CA\_2A-4A\_75RB+50RB\_64QAM\_19125+20350\_1RB#74+1RB#49\_Band2

## Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep  
SGL Count 50/50

1 AvgPwr

SPURIOUS CHNk ABS\_

Line SPURIOUS\_LINE\_ABS\_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.89 GHz

2303 pts

Stop 1.92 GHz

## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90915 GHz	19.48 dBm	-10.52 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91022 GHz	-23.70 dBm	-10.70 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-29.64 dBm	-16.64 dB

Ready

Date: 24.AUG.2020 08:42:35

## CA\_2A-4A\_75RB+50RB\_64QAM\_19125+20350\_75RB#0+50RB#0\_Band2

## Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep  
SGL Count 50/50

1 AvgPwr

SPURIOUS CHNk ABS\_

Line SPURIOUS\_LINE\_ABS\_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.89 GHz

2303 pts

Stop 1.92 GHz

## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90543 GHz	0.46 dBm	-29.54 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91000 GHz	-30.57 dBm	-17.57 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-26.72 dBm	-13.72 dB

Ready

Date: 24.AUG.2020 08:43:55

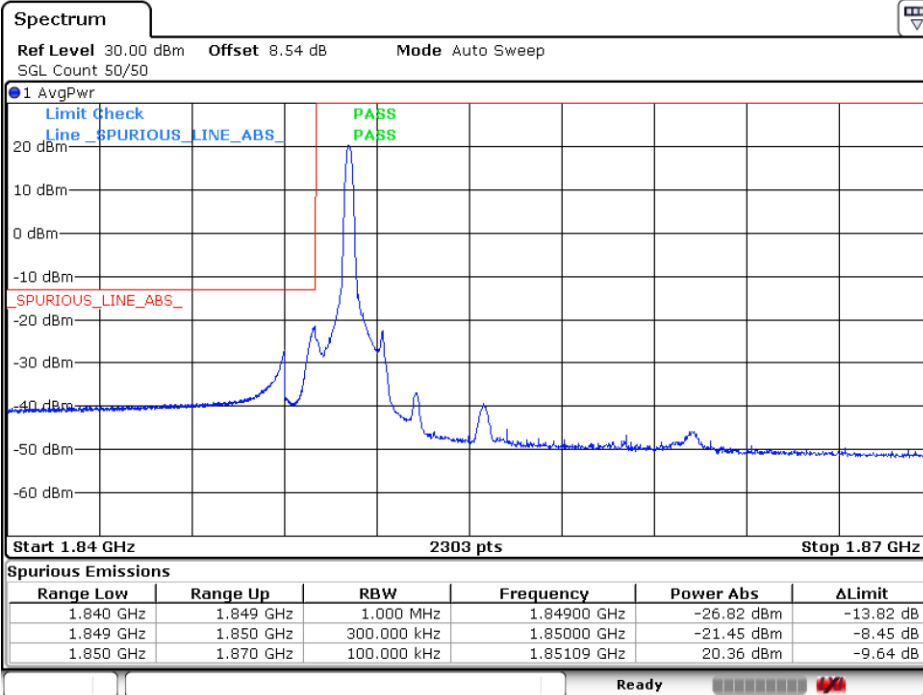
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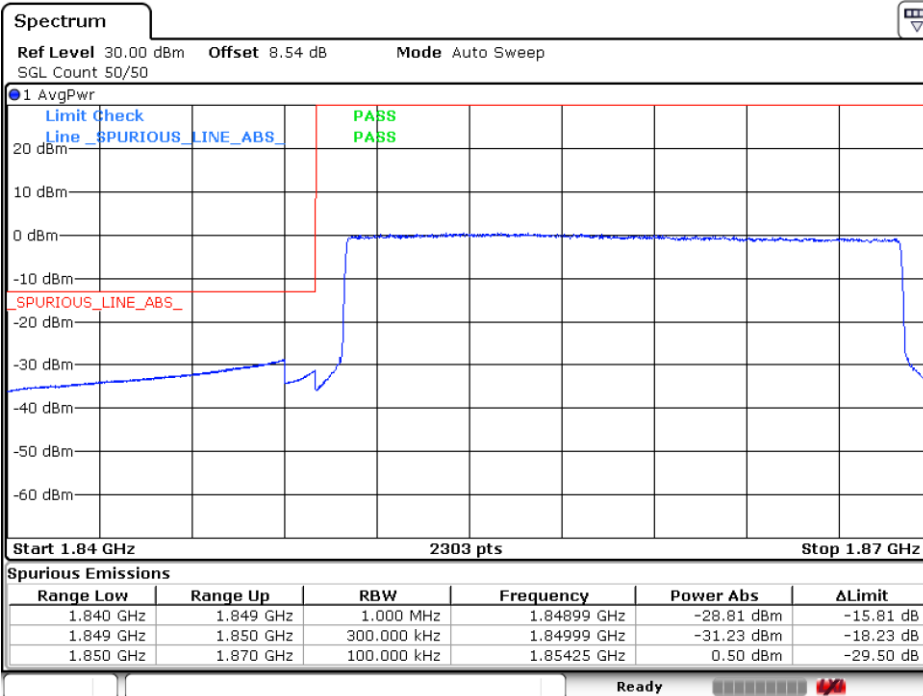
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## CA\_2A-4A\_100RB+100RB\_QPSK\_18700+20050\_1RB#0+1RB#0\_Band2



Date: 19.AUG.2020 17:21:43

## CA\_2A-4A\_100RB+100RB\_QPSK\_18700+20050\_100RB#0+100RB#0\_Band2



Date: 19.AUG.2020 17:20:50

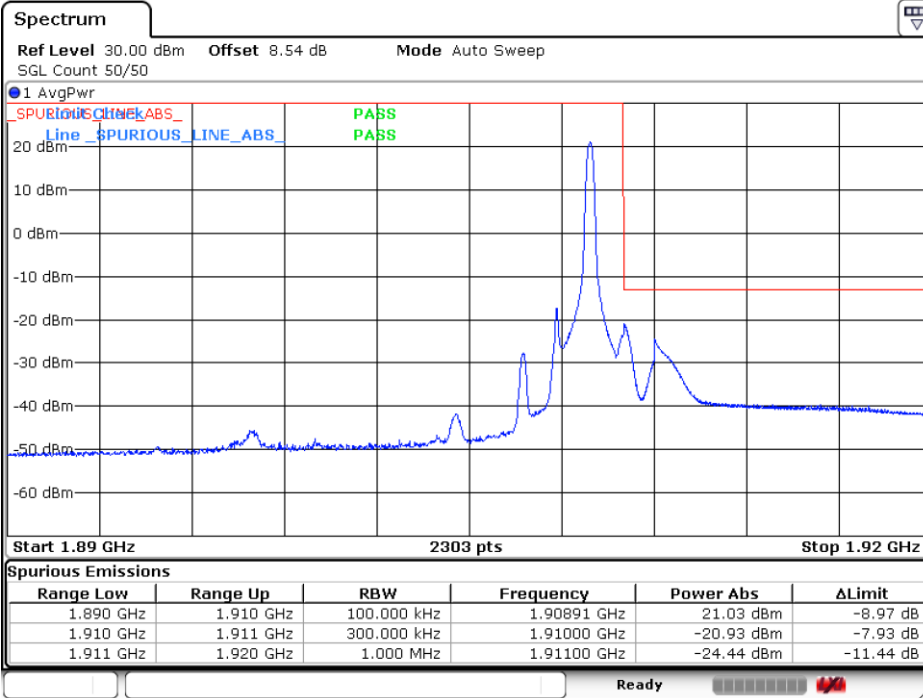


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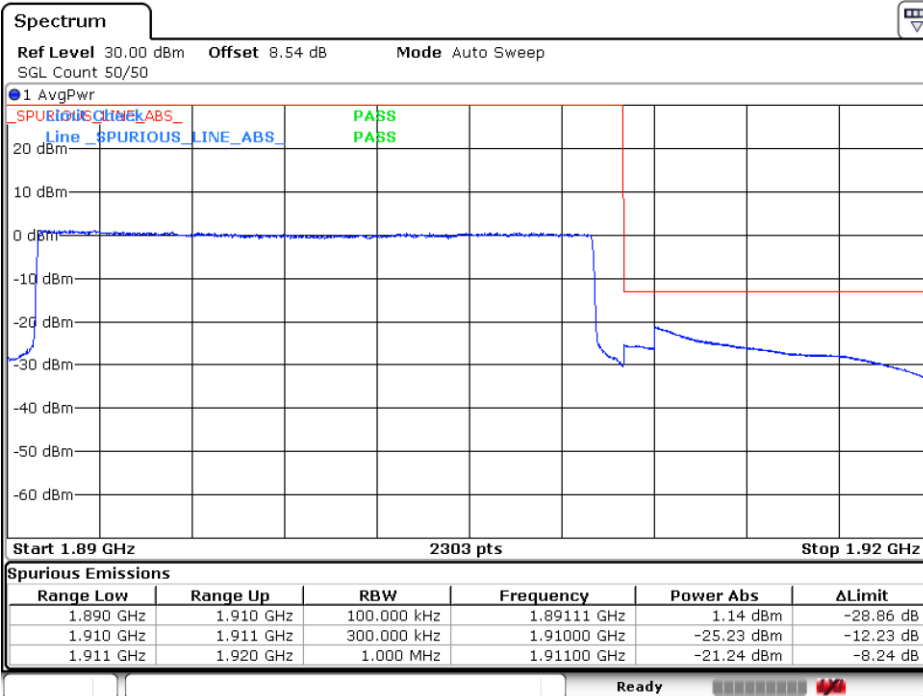
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## CA\_2A-4A\_100RB+100RB\_QPSK\_19100+20300\_1RB#99+1RB#99\_Band2



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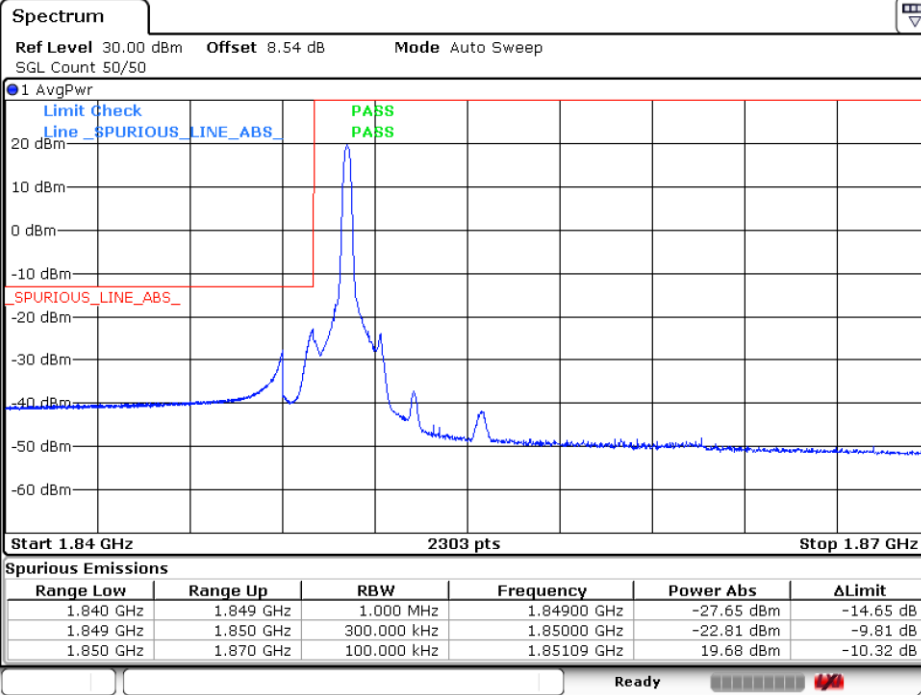
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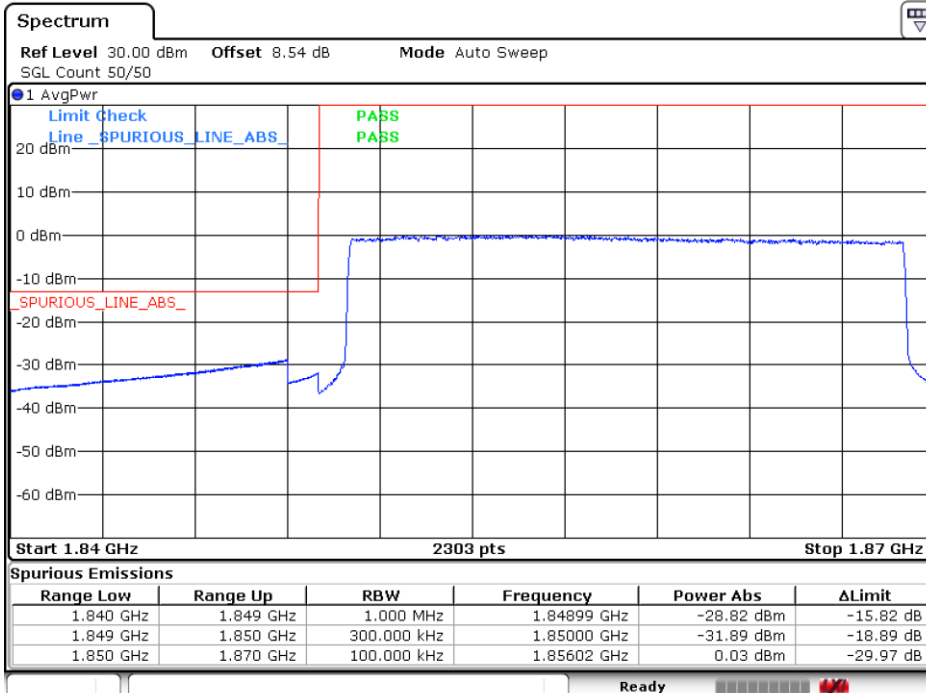


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Date: 19.AUG.2020 17:22:23

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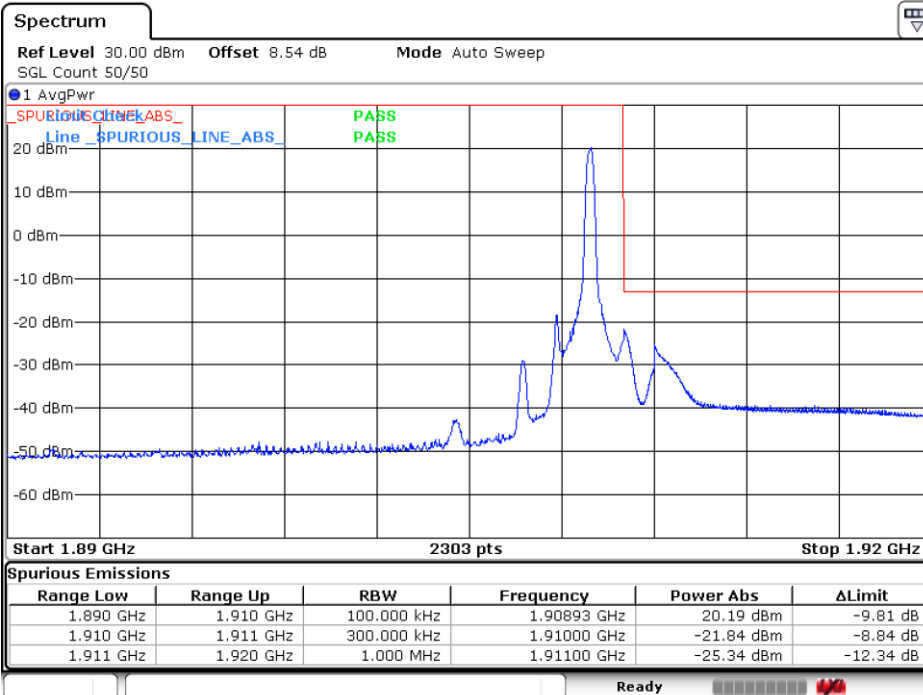


Date: 19.AUG.2020 17:20:19



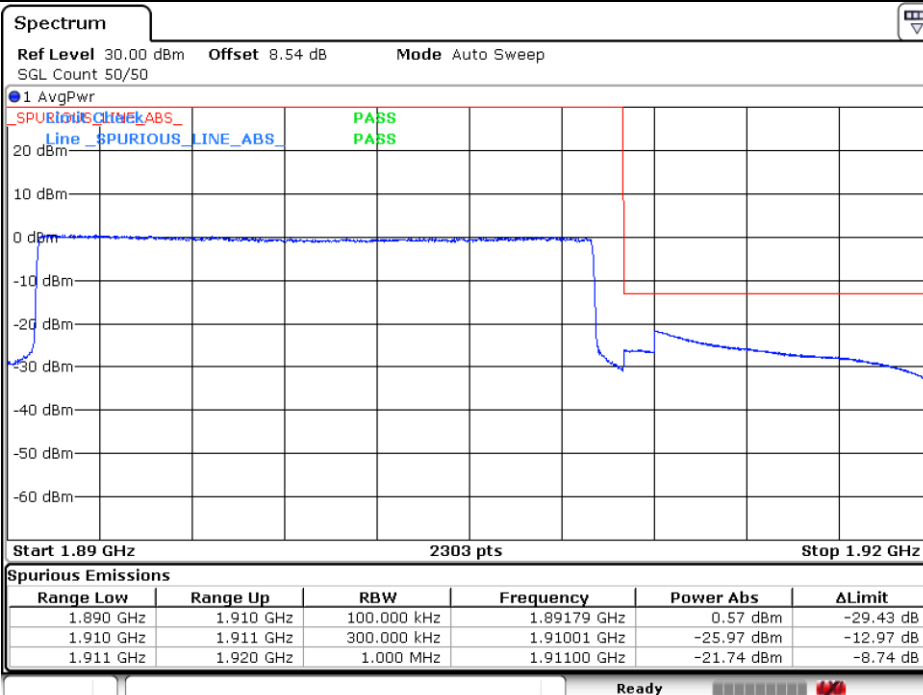


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Date: 19.AUG.2020 17:25:29

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Date: 19.AUG.2020 17:28:04

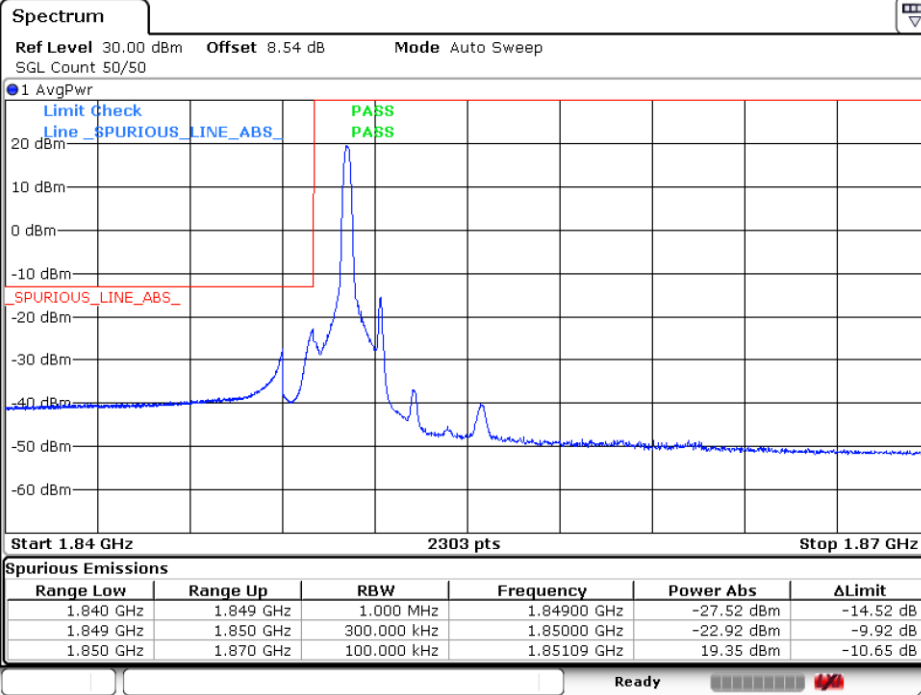


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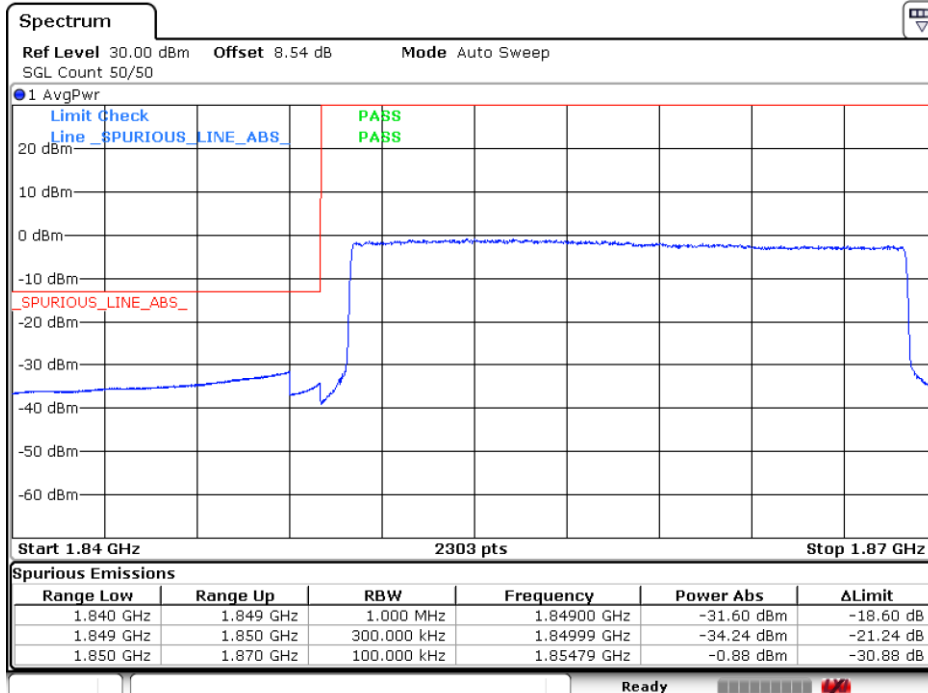
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## CA\_2A-4A\_100RB+100RB\_64QAM\_18700+20050\_1RB#0+1RB#0\_Band2



Date: 23.AUG.2020 20:07:17

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Date: 23.AUG.2020 20:08:49



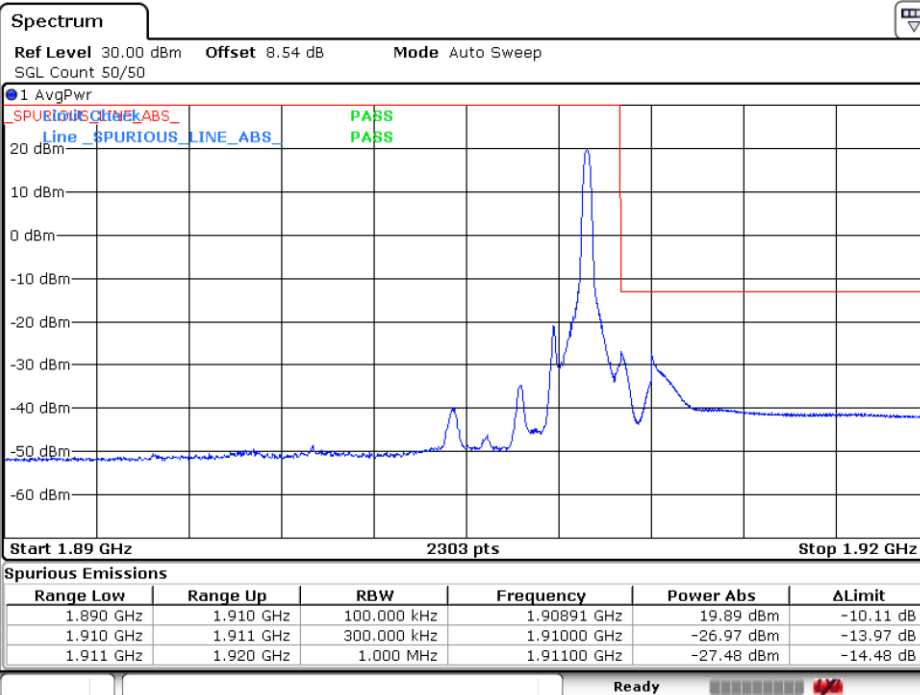
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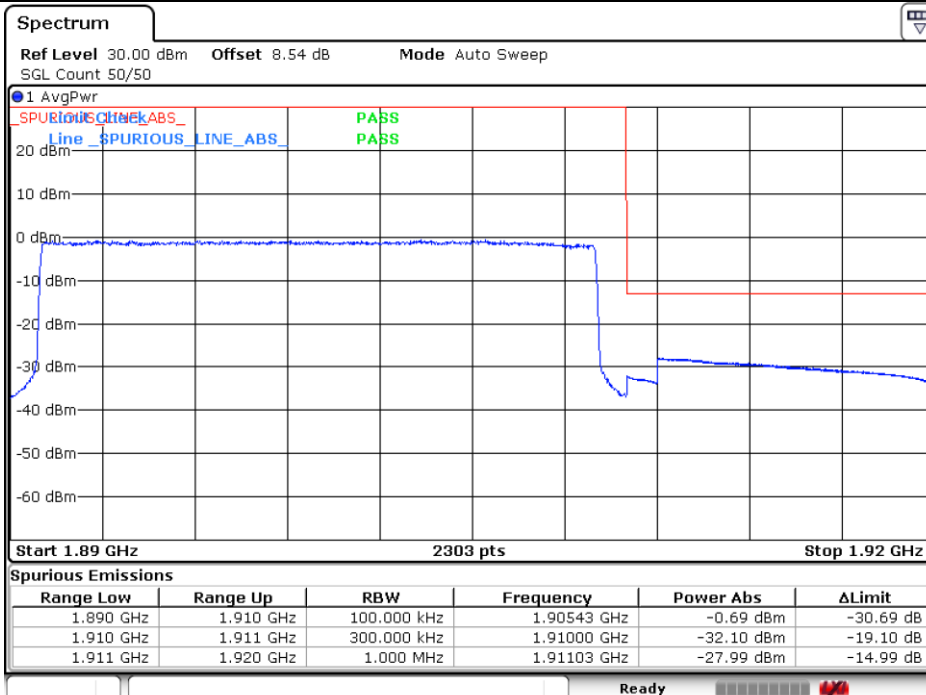
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## CA\_2A-4A\_100RB+100RB\_64QAM\_19100+20300\_1RB#99+1RB#99\_Band2



Date: 23.AUG.2020 20:23:33

## CA\_2A-4A\_100RB+100RB\_64QAM\_19100+20300\_100RB#0+100RB#0\_Band2



Date: 23.AUG.2020 20:24:19

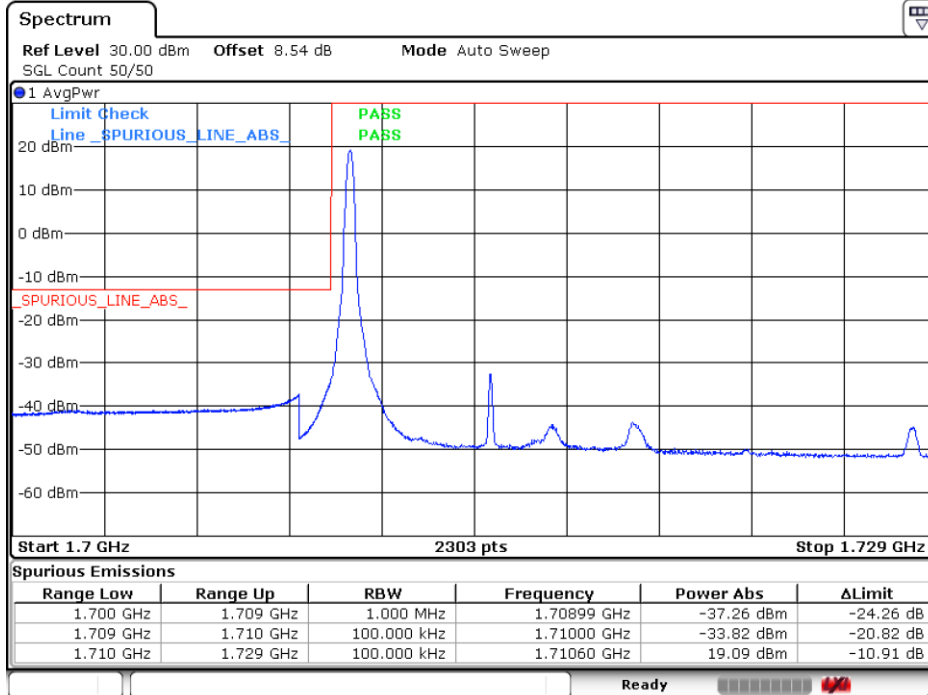
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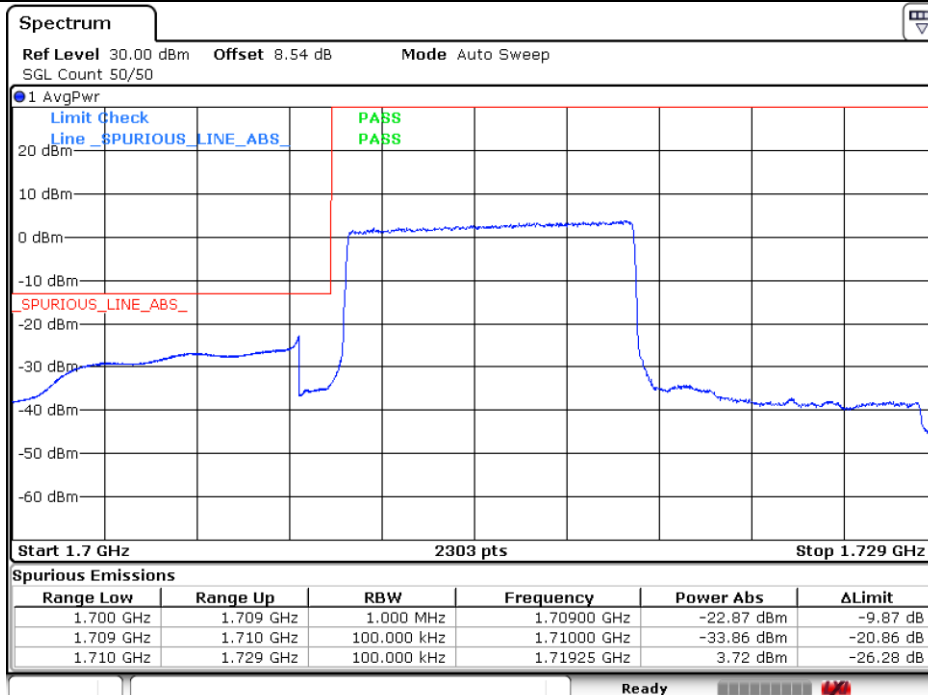
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## CA\_2A-4A\_75RB+50RB\_QPSK\_18675+20000\_1RB#0+1RB#0\_Band4



Date: 19.AUG.2020 17:44:55

## CA\_2A-4A\_75RB+50RB\_QPSK\_18675+20000\_75RB#0+50RB#0\_Band4



Date: 19.AUG.2020 17:43:36



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## CA\_2A-4A\_75RB+50RB\_QPSK\_19125+20350\_1RB#74+1RB#49\_Band4

## Spectrum

Ref Level 30.00 dBm Offset 8.40 dB Mode Auto Sweep  
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS\_

PASS

Line SPURIOUS LINE\_ABS\_

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.745 GHz

2303 pts

Stop 1.765 GHz

## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75442 GHz	19.19 dBm	-10.81 dB
1.755 GHz	1.765 GHz	100.000 kHz	1.75500 GHz	-34.98 dBm	-21.98 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75600 GHz	-37.76 dBm	-24.76 dB

Ready

Date: 19.AUG.2020 17:53:45

## CA\_2A-4A\_75RB+50RB\_QPSK\_19125+20350\_75RB#0+50RB#0\_Band4

## Spectrum

Ref Level 30.00 dBm Offset 8.40 dB Mode Auto Sweep  
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS\_

PASS

Line SPURIOUS LINE\_ABS\_

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.745 GHz

2303 pts

Stop 1.765 GHz

## Spurious Emissions

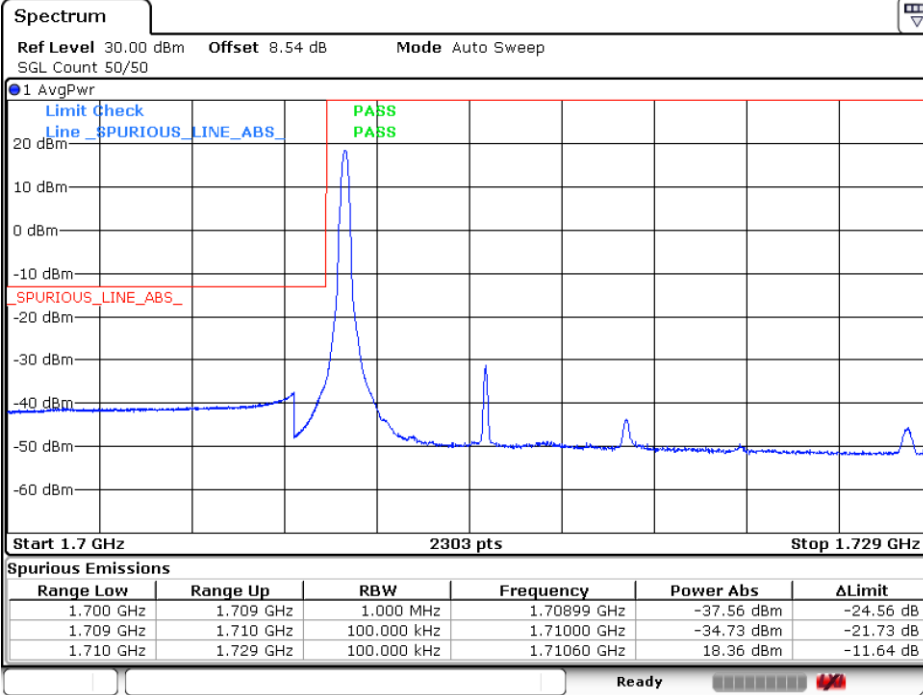
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75327 GHz	2.56 dBm	-27.44 dB
1.755 GHz	1.765 GHz	100.000 kHz	1.75500 GHz	-33.37 dBm	-20.37 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75606 GHz	-23.60 dBm	-10.60 dB

Ready

Date: 19.AUG.2020 17:55:37

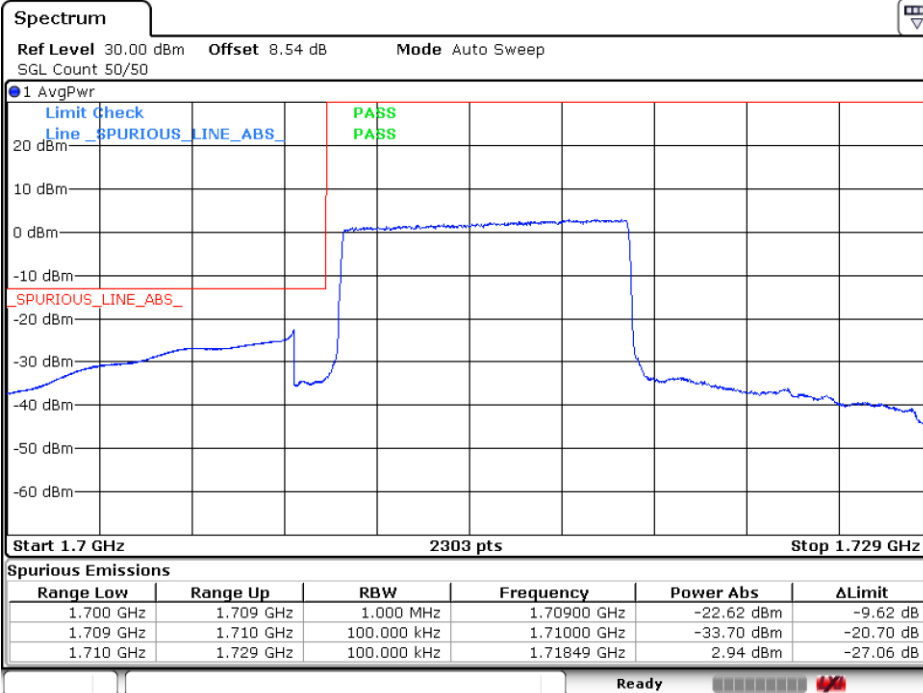


## CA\_2A-4A\_75RB+50RB\_16QAM\_18675+20000\_1RB#0+1RB#0\_Band4



Date: 19.AUG.2020 17:45:24

## CA\_2A-4A\_75RB+50RB\_16QAM\_18675+20000\_75RB#0+50RB#0\_Band4



Date: 19.AUG.2020 17:43:02



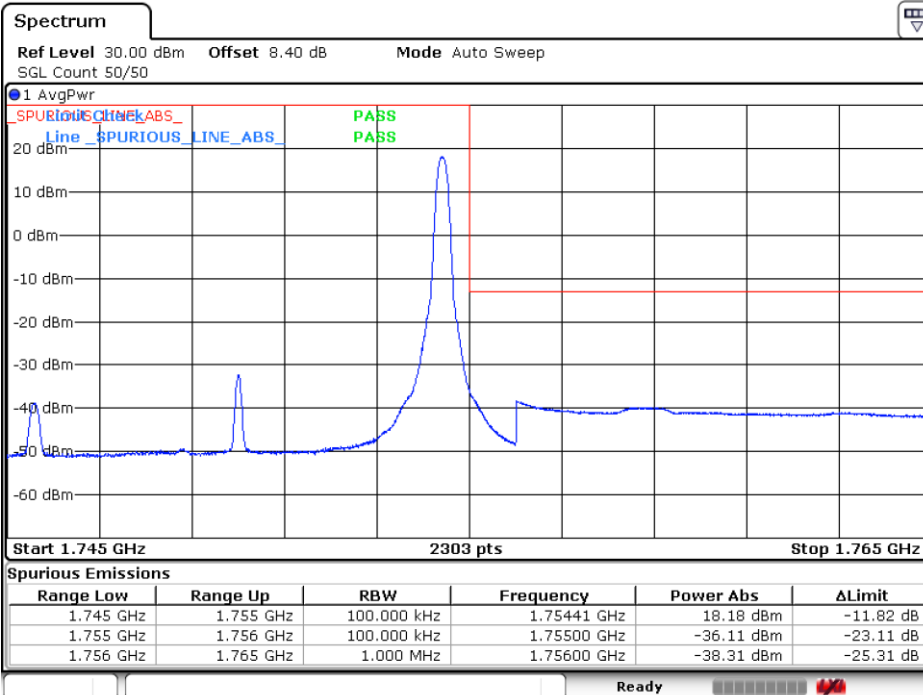
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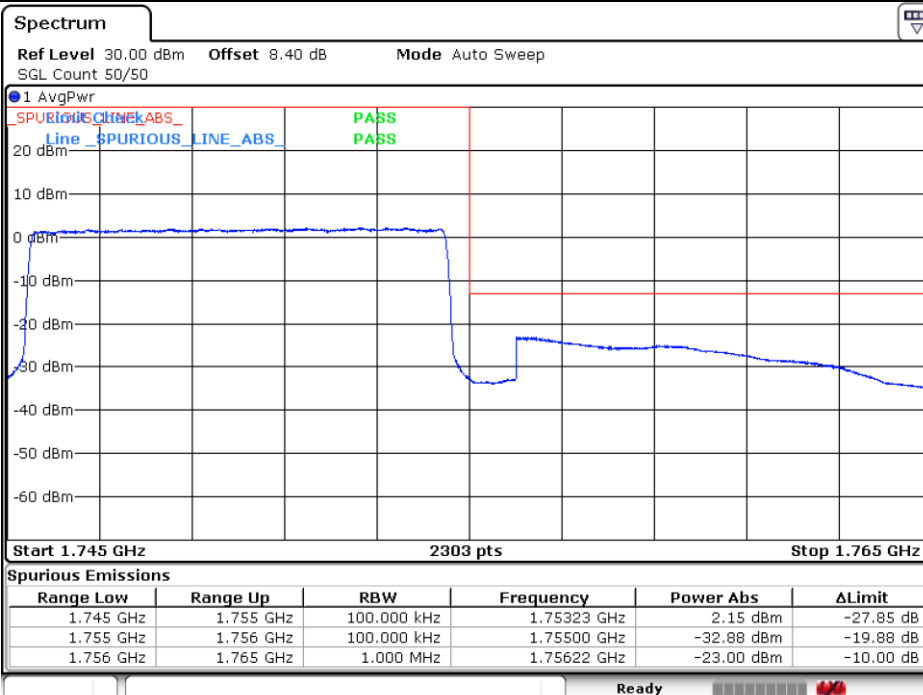
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## CA\_2A-4A\_75RB+50RB\_16QAM\_19125+20350\_1RB#74+1RB#49\_Band4



Date: 19.AUG.2020 17:54:12

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Date: 19.AUG.2020 17:54:52

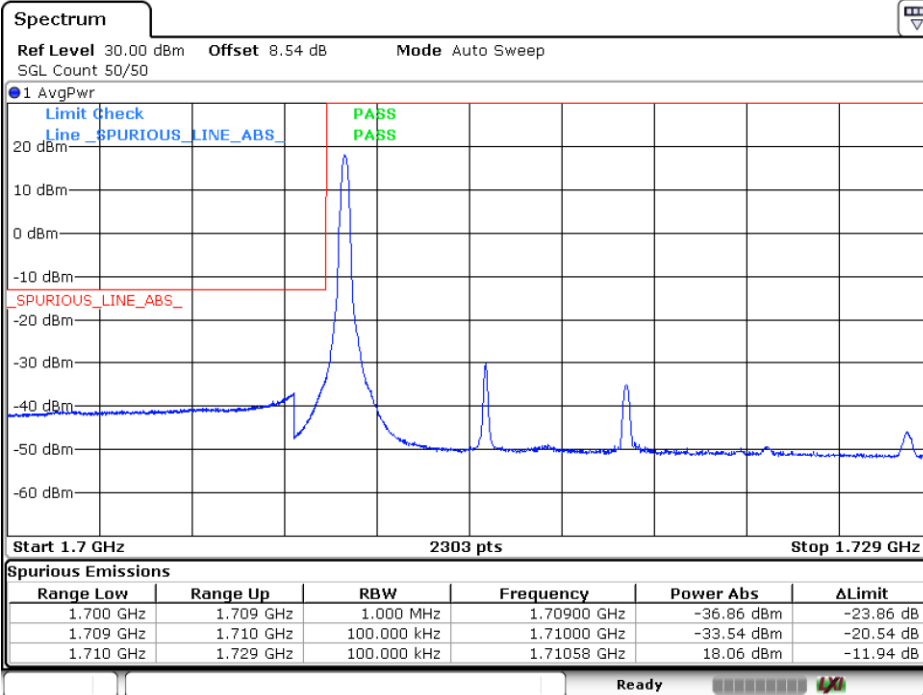


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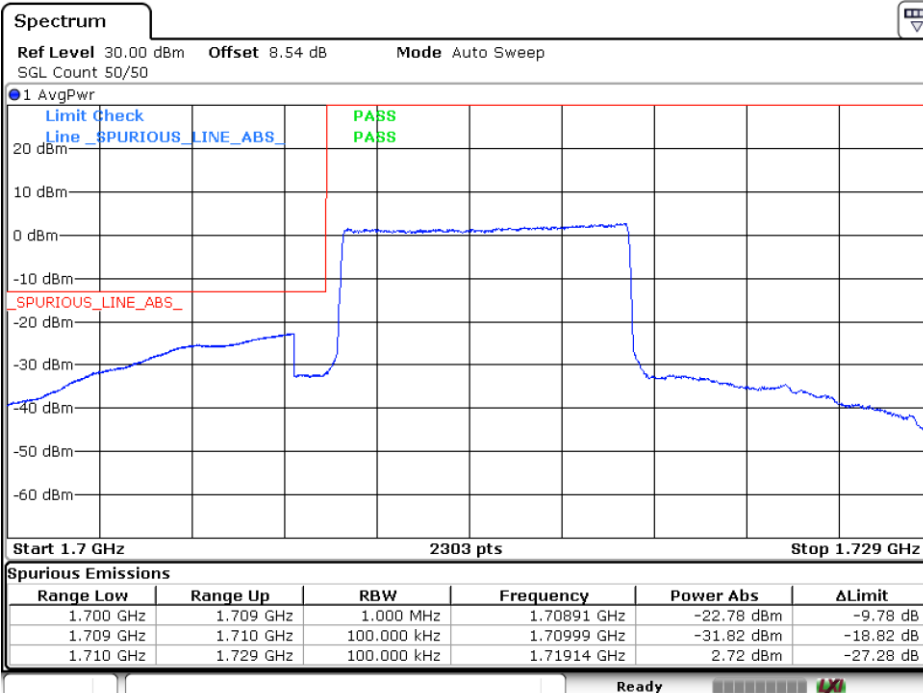
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## CA\_2A-4A\_75RB+50RB\_64QAM\_18675+20000\_1RB#0+1RB#0\_Band4



Date: 24.AUG.2020 08:35:47

## CA\_2A-4A\_75RB+50RB\_64QAM\_18675+20000\_75RB#0+50RB#0\_Band4



Date: 24.AUG.2020 08:36:42



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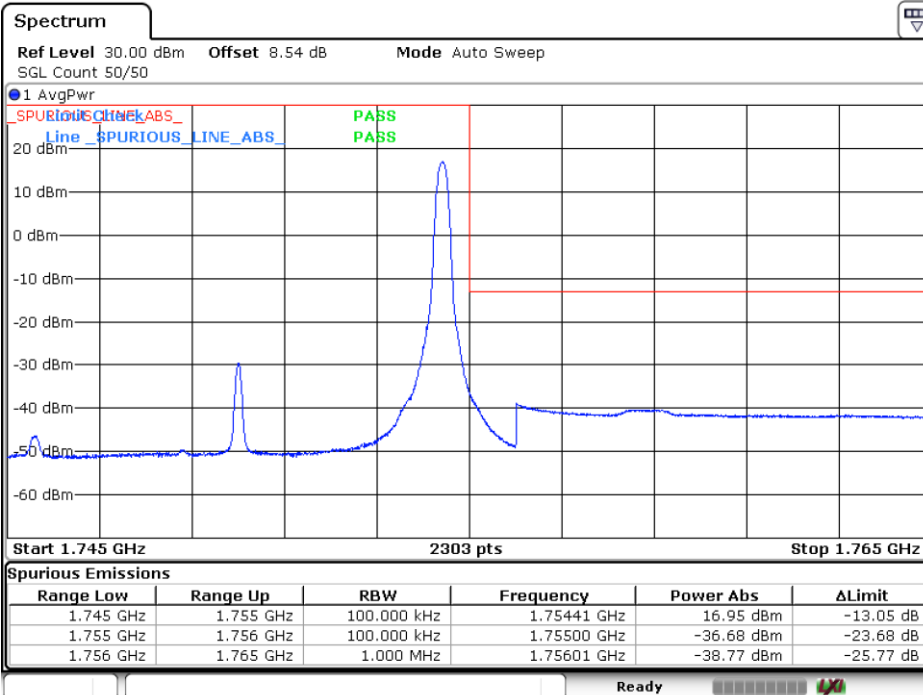
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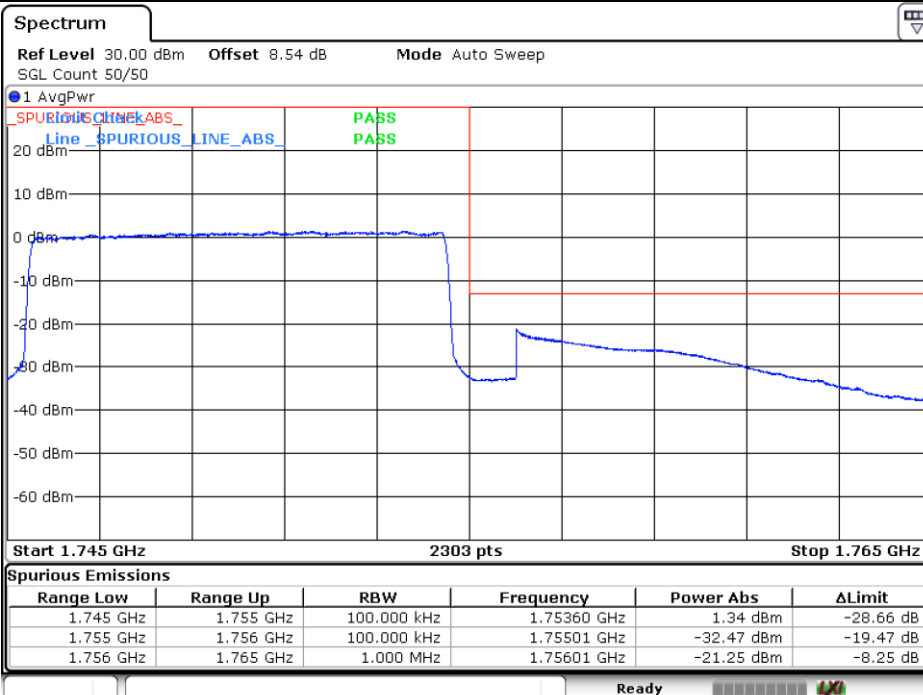


## CA\_2A-4A\_75RB+50RB\_64QAM\_19125+20350\_1RB#74+1RB#49\_Band4



Date: 24.AUG.2020 08:39:42

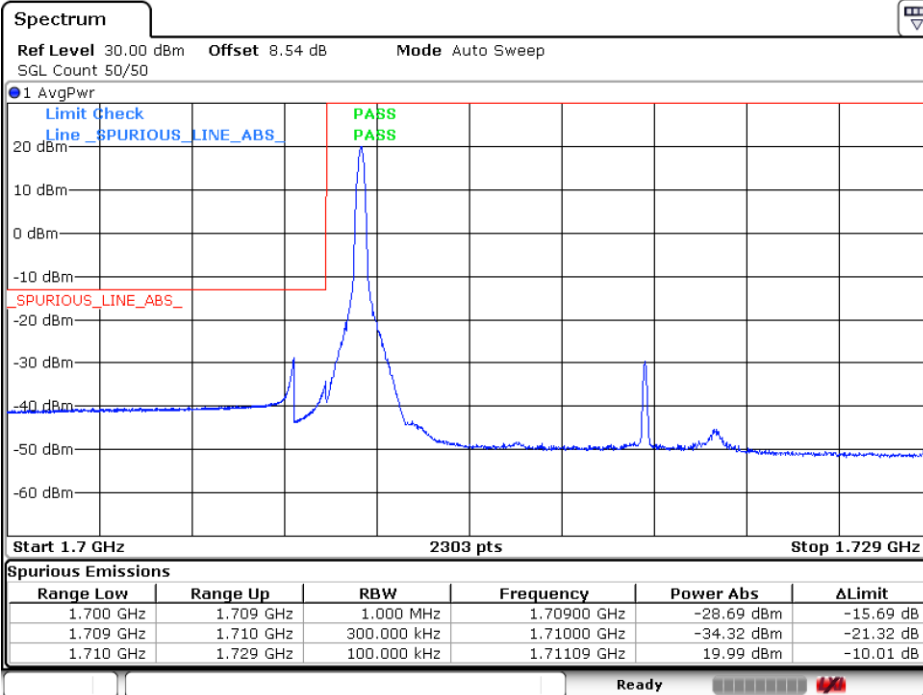
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Date: 24.AUG.2020 08:38:31

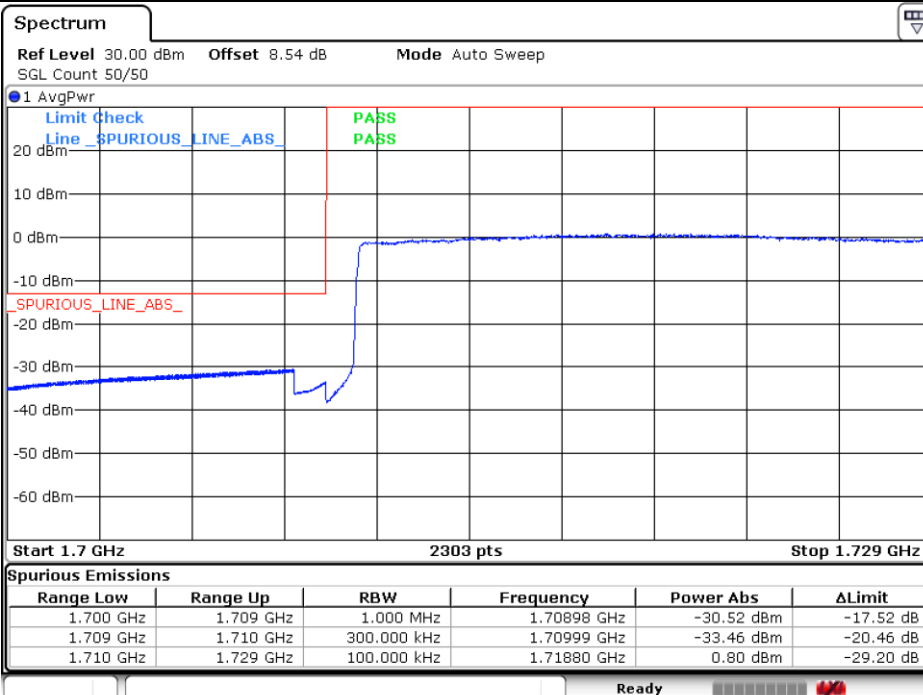


## CA\_2A-4A\_100RB+100RB\_QPSK\_18700+20050\_1RB#0+1RB#0\_Band4



Date: 19.AUG.2020 17:13:20

## CA\_2A-4A\_100RB+100RB\_QPSK\_18700+20050\_100RB#0+100RB#0\_Band4



Date: 19.AUG.2020 17:17:17



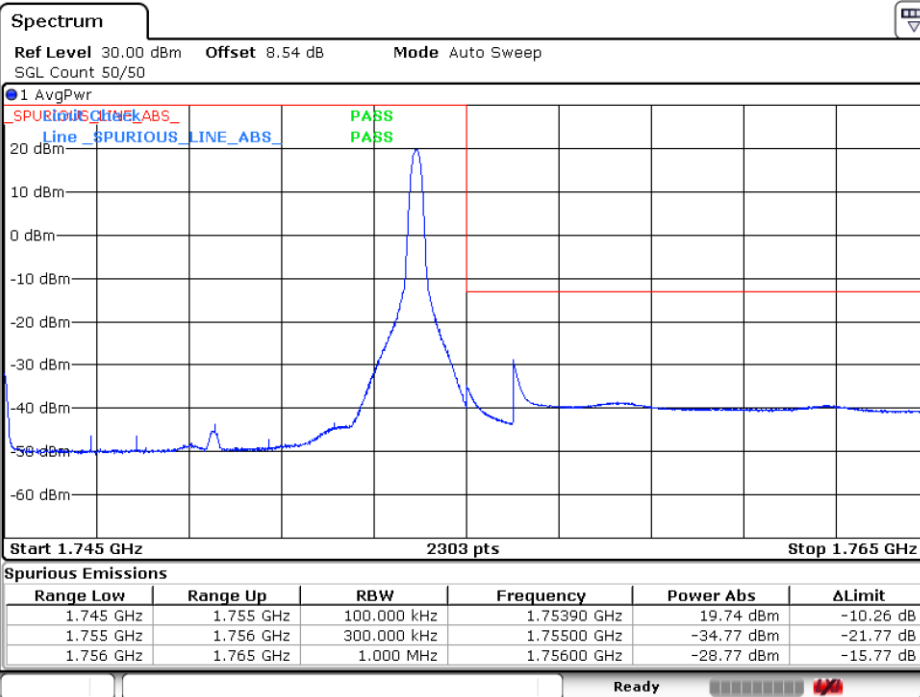
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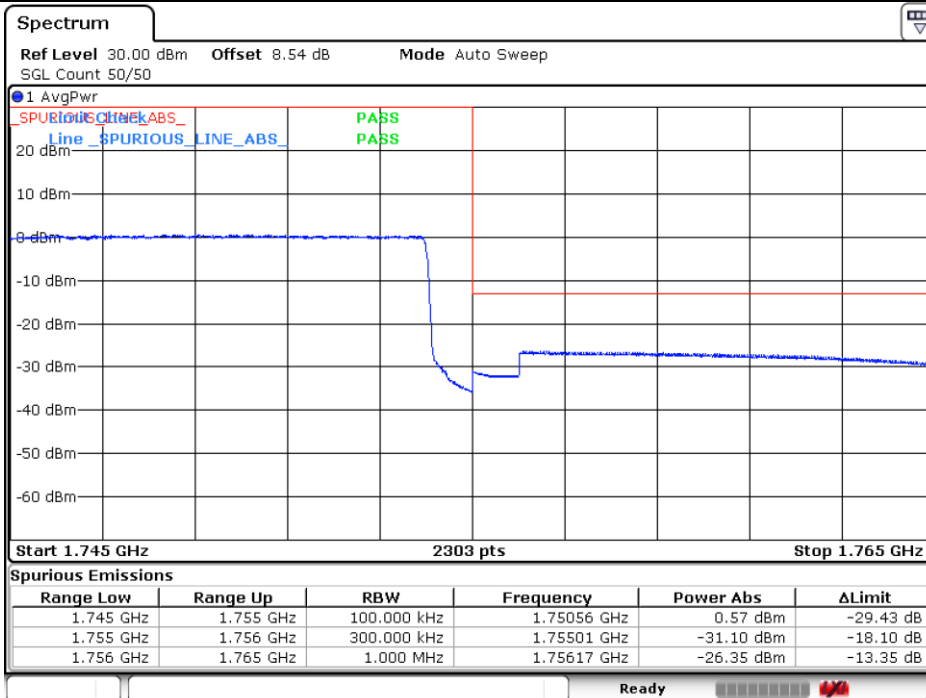
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## CA\_2A-4A\_100RB+100RB\_QPSK\_19100+20300\_1RB#99+1RB#99\_Band4



Date: 19.AUG.2020 17:31:57

## CA\_2A-4A\_100RB+100RB\_QPSK\_19100+20300\_100RB#0+100RB#0\_Band4



Date: 19.AUG.2020 17:31:06

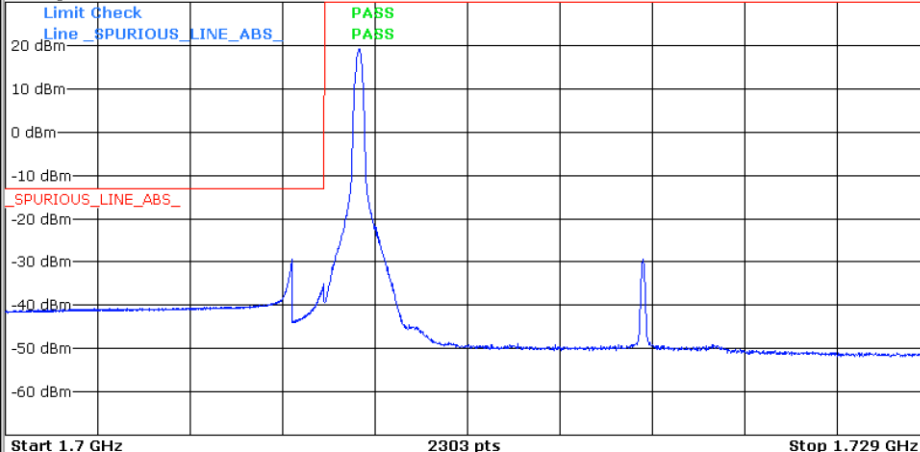


## CA\_2A-4A\_100RB+100RB\_16QAM\_18700+20050\_1RB#0+1RB#0\_Band4

## Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep  
SGL Count 50/50

1 AvgPwr



## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-29.36 dBm	-16.36 dB
1.709 GHz	1.710 GHz	300.000 kHz	1.71000 GHz	-35.00 dBm	-22.00 dB
1.710 GHz	1.729 GHz	100.000 kHz	1.71111 GHz	19.11 dBm	-10.89 dB

Ready

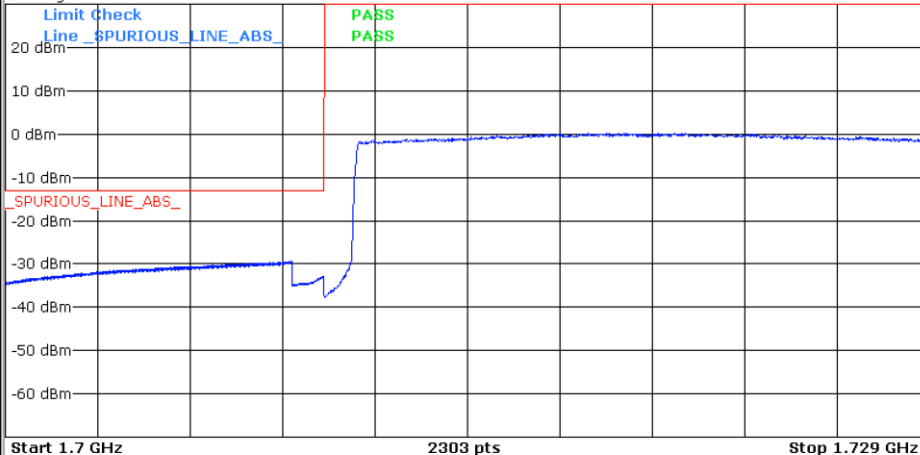
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## CA\_2A-4A\_100RB+100RB\_16QAM\_18700+20050\_100RB#0+100RB#0\_Band4

## Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep  
SGL Count 50/50

1 AvgPwr



## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-29.47 dBm	-16.47 dB
1.709 GHz	1.710 GHz	300.000 kHz	1.71000 GHz	-32.87 dBm	-19.87 dB
1.710 GHz	1.729 GHz	100.000 kHz	1.71948 GHz	0.26 dBm	-29.74 dB

Ready

Date: 19.AUG.2020 17:15:08

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## CA\_2A-4A\_100RB+100RB\_16QAM\_19100+20300\_1RB#99+1RB#99\_Band4

## Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep  
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS\_

Line SPURIOUS LINE\_ABS\_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.745 GHz

2303 pts

Stop 1.765 GHz

## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75392 GHz	19.20 dBm	-10.80 dB
1.755 GHz	1.765 GHz	300.000 kHz	1.75500 GHz	-35.33 dBm	-22.33 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75600 GHz	-29.28 dBm	-16.28 dB

Ready

Date: 19.AUG.2020 17:32:33

## CA\_2A-4A\_100RB+100RB\_16QAM\_19100+20300\_100RB#0+100RB#0\_Band4

## Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep  
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS\_

Line SPURIOUS LINE\_ABS\_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.745 GHz

2303 pts

Stop 1.765 GHz

## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.74779 GHz	0.27 dBm	-29.73 dB
1.755 GHz	1.765 GHz	300.000 kHz	1.75501 GHz	-30.65 dBm	-17.65 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75615 GHz	-26.15 dBm	-13.15 dB

Ready

Date: 19.AUG.2020 17:29:35

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Shenzhen Branch Testing Laboratory

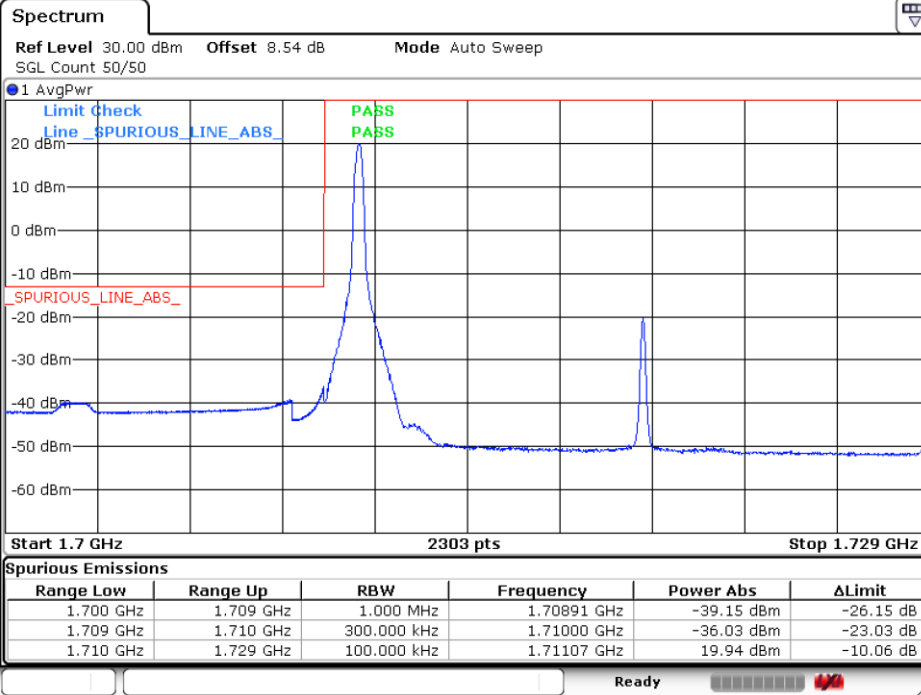
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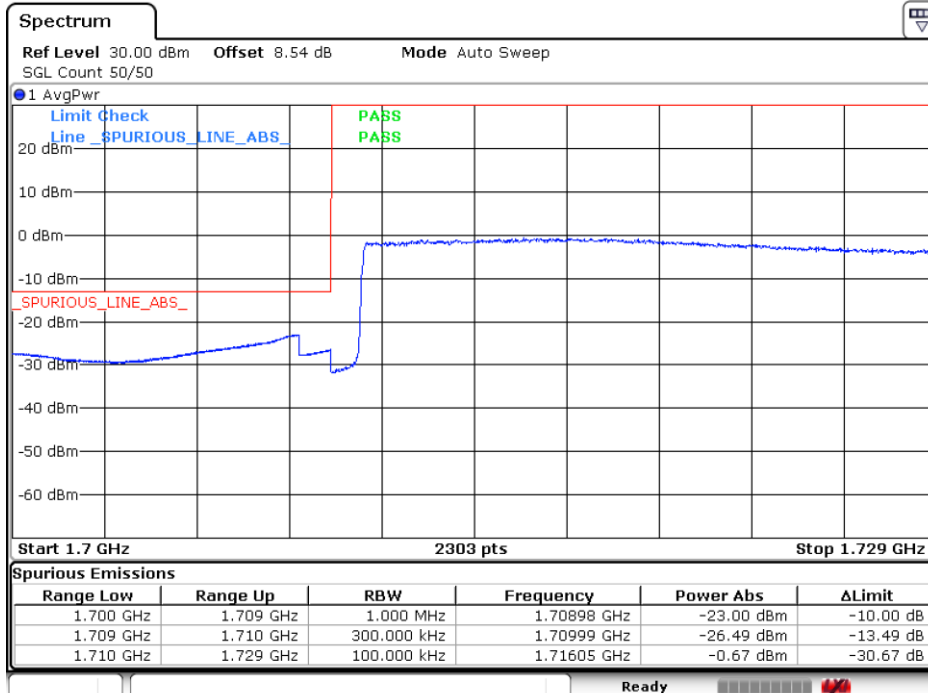
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## CA\_2A-4A\_100RB+100RB\_64QAM\_18700+20050\_1RB#0+1RB#0\_Band4



Date: 23.AUG.2020 21:04:27

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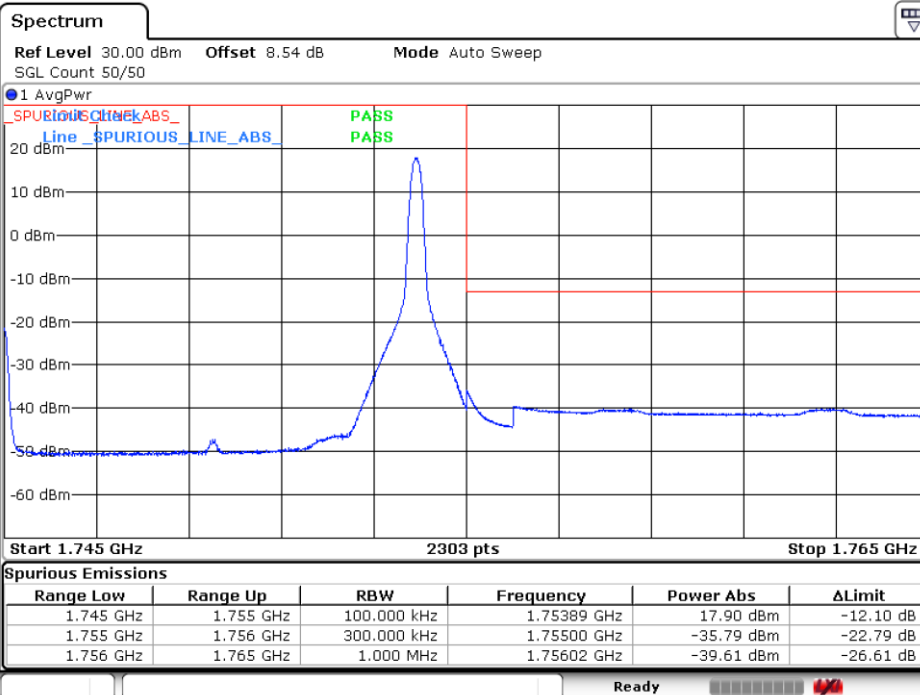


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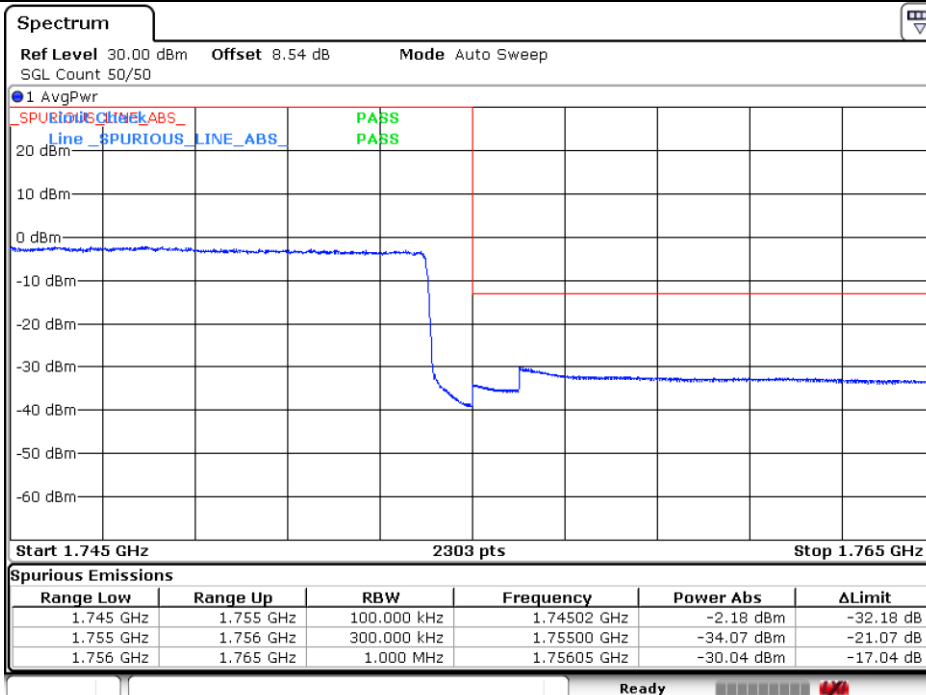
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## CA\_2A-4A\_100RB+100RB\_64QAM\_19100+20300\_1RB#99+1RB#99\_Band4



Date: 23.AUG.2020 21:07:41

## CA\_2A-4A\_100RB+100RB\_64QAM\_19100+20300\_100RB#0+100RB#0\_Band4



Date: 23.AUG.2020 21:06:06



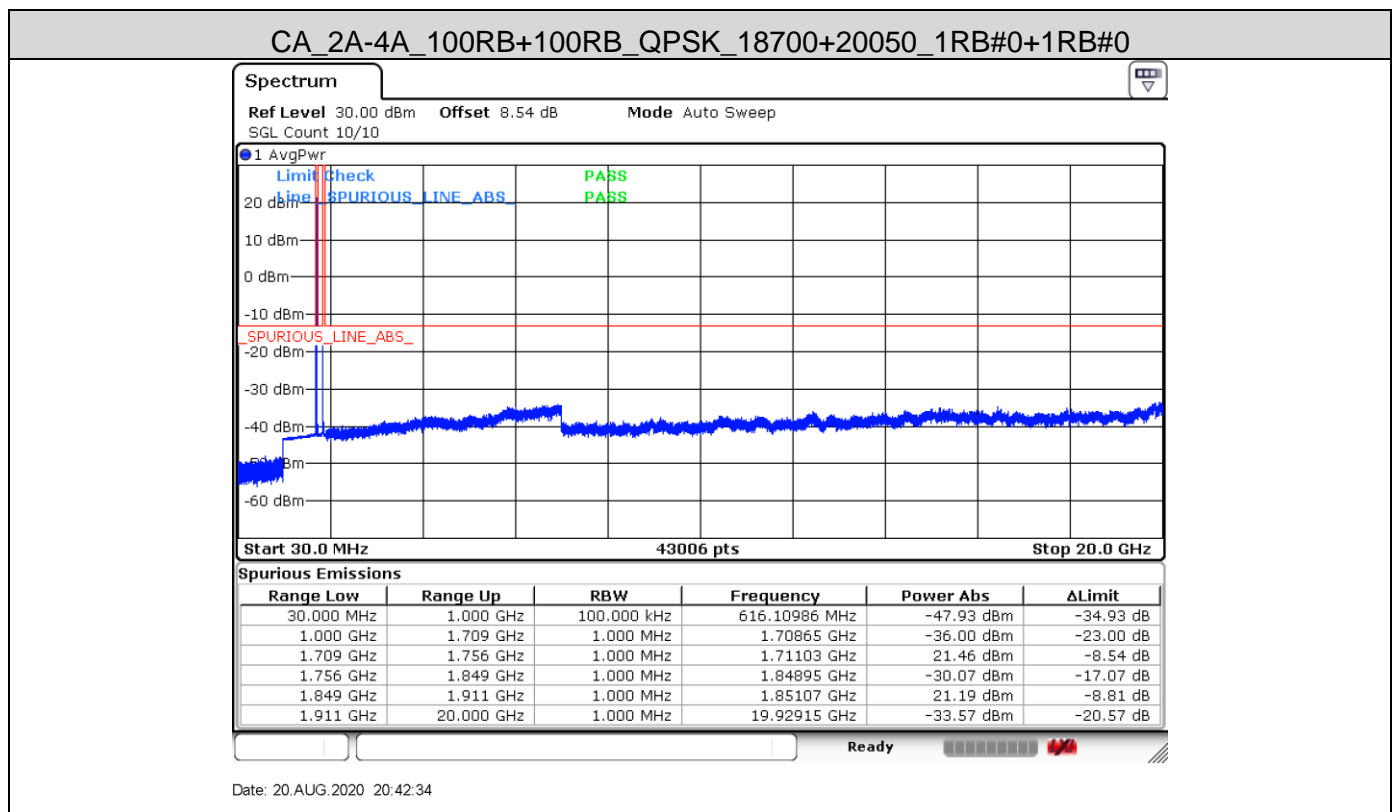
### 3 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

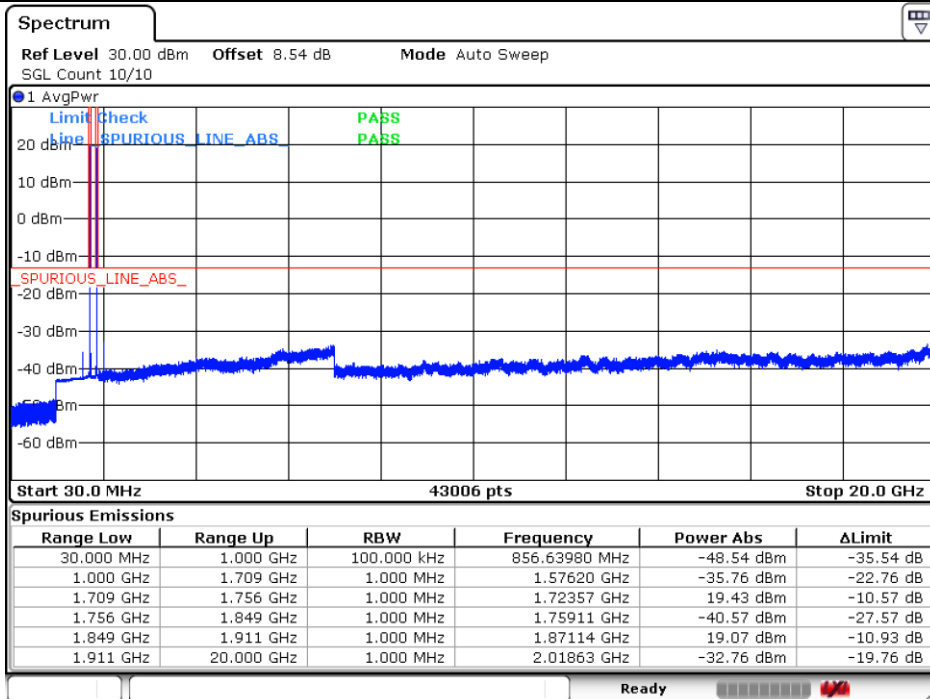
#### 3.1 For LTE

##### 3.1.1 Test Band = LTE Band CA\_2A-4A





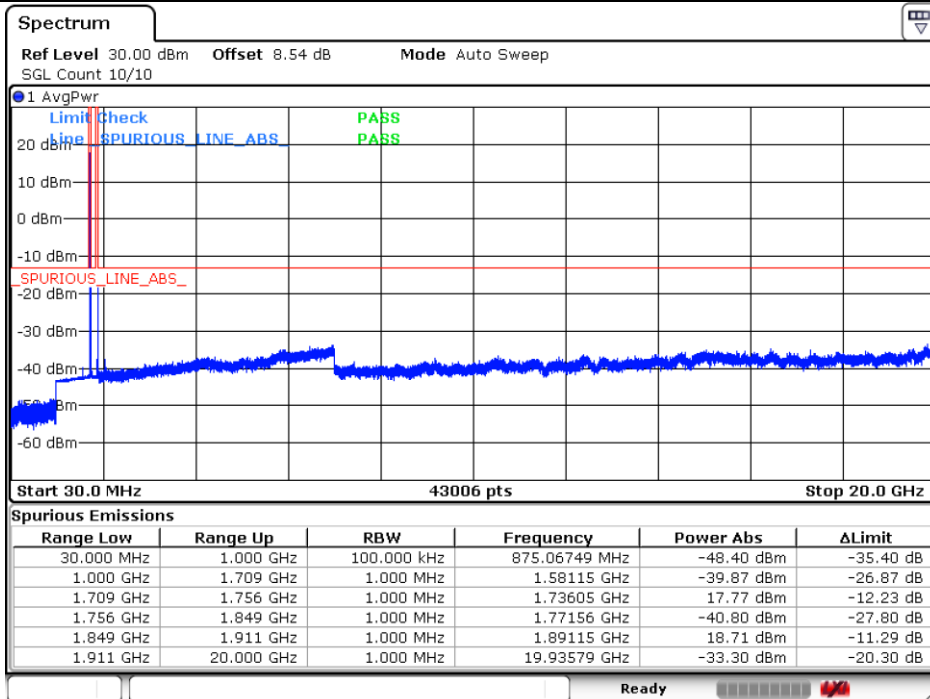
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Date: 20.AUG.2020 20:55:15



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Date: 20.AUG.2020 21:02:48

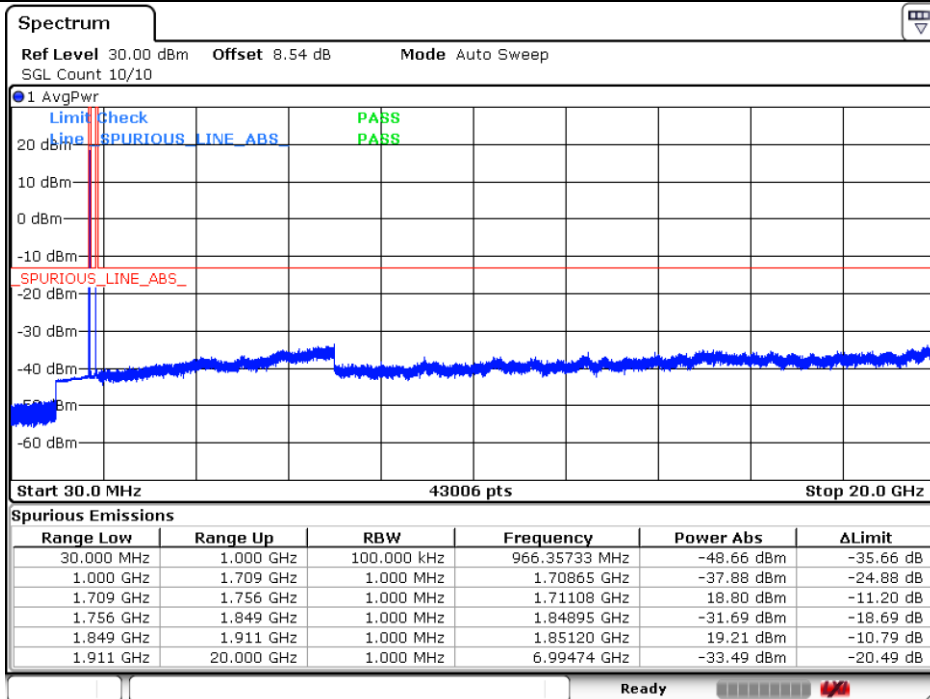
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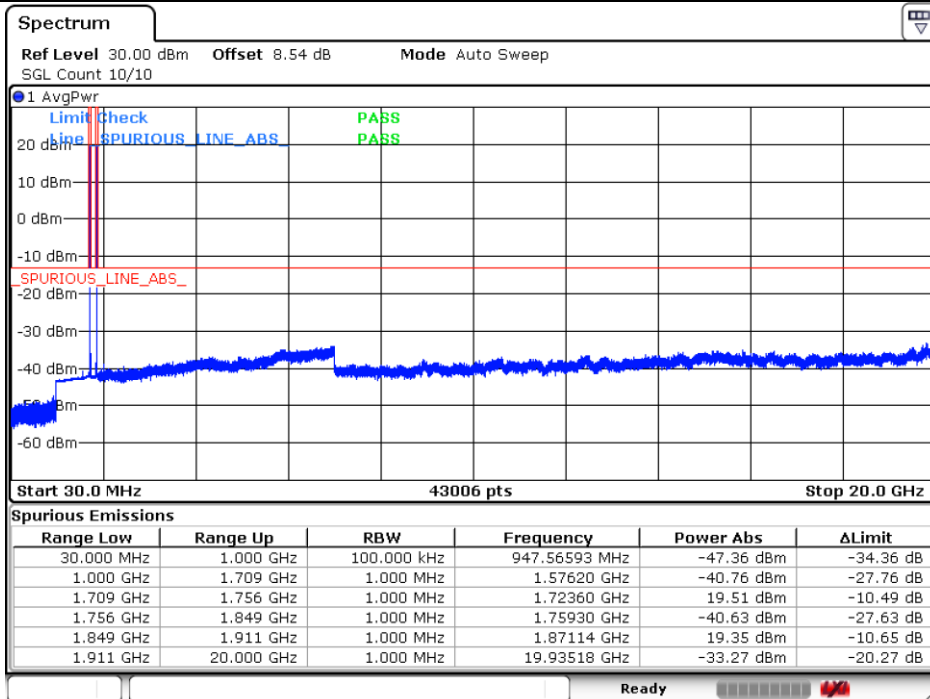
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Date: 20.AUG.2020 20:52:11



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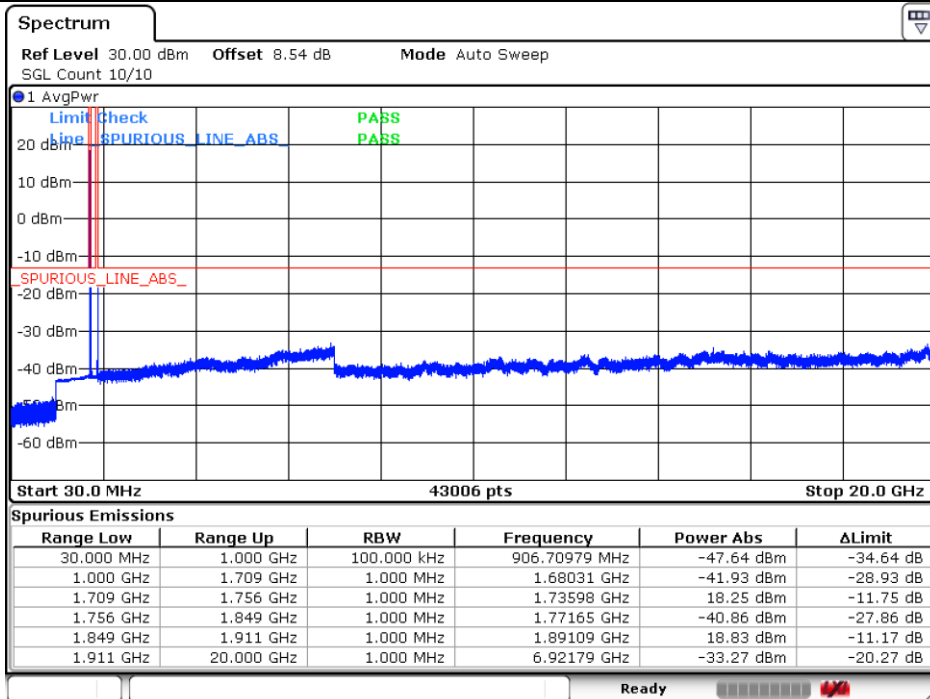


Date: 20.AUG.2020 20:55:48





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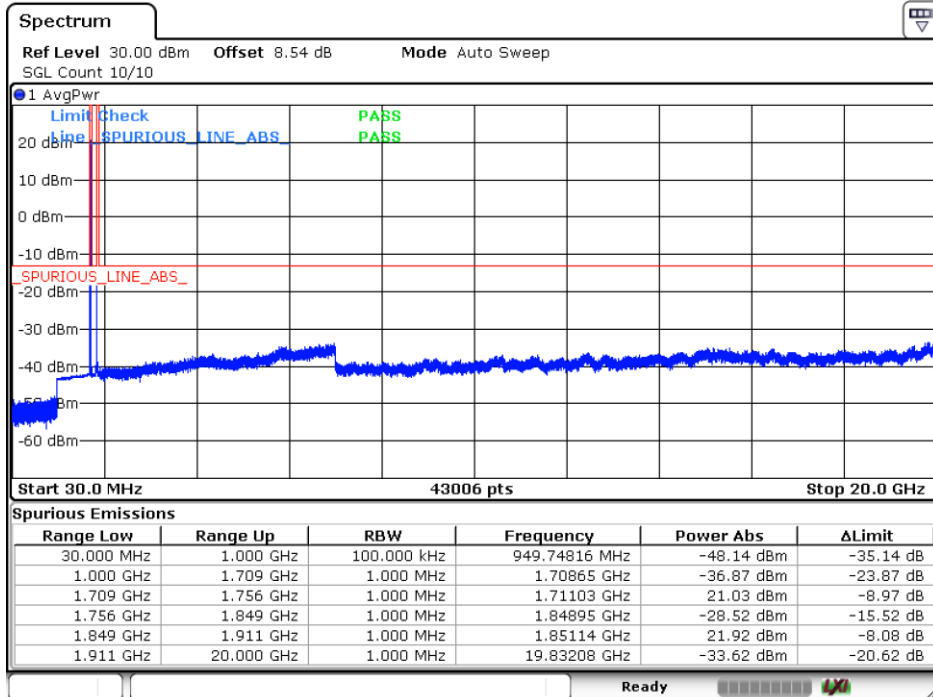
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## CA\_2A-4A\_100RB+100RB\_64QAM\_18700+20050\_1RB#0+1RB#0



Date: 24.AUG.2020 08:46:57



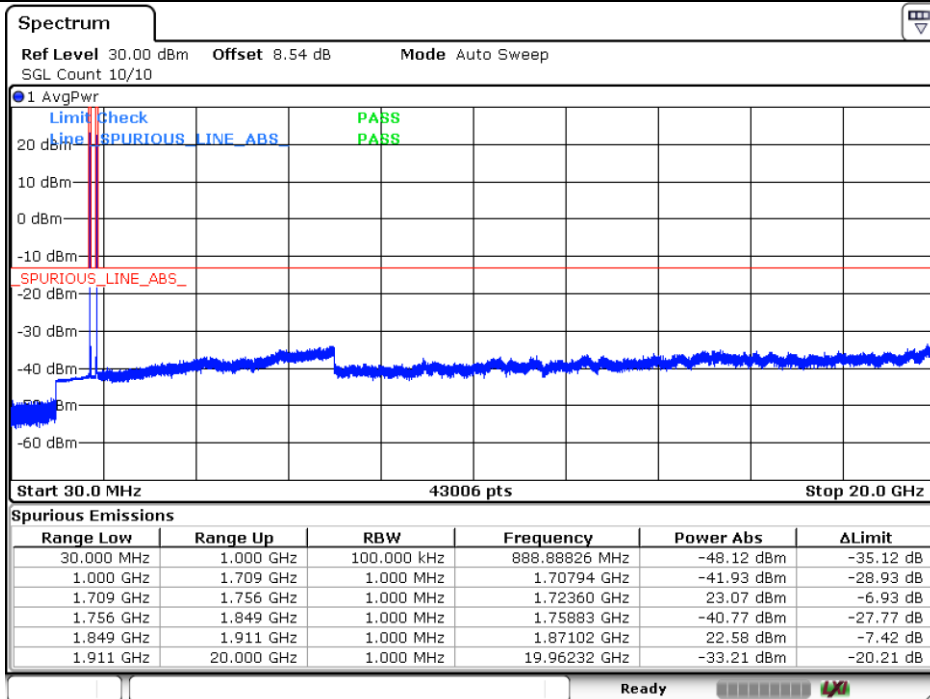
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Date: 24.AUG.2020 08:51:34

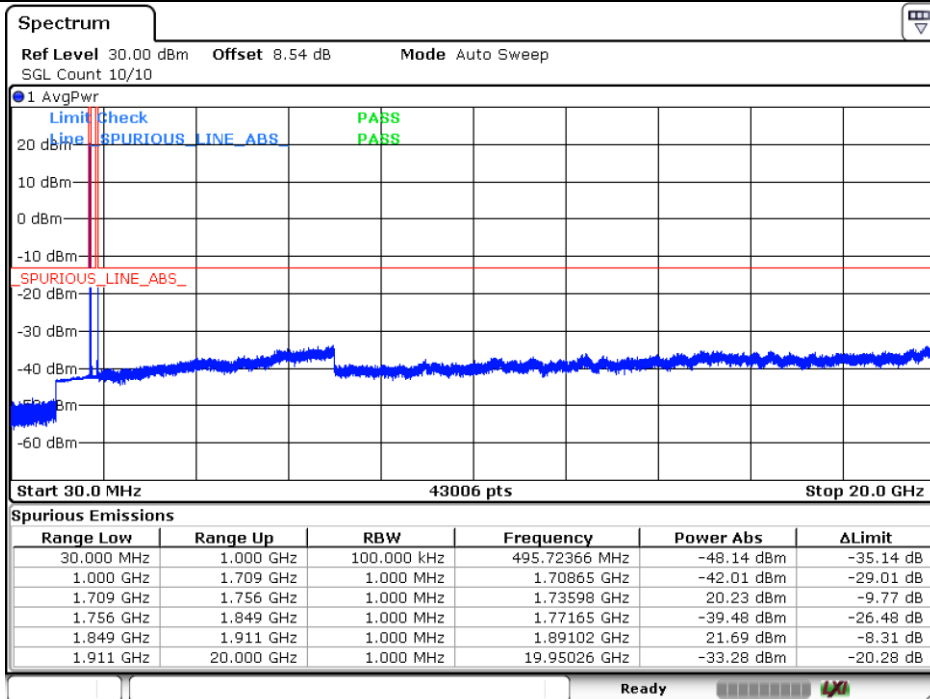
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## CA\_2A-4A\_100RB+100RB\_64QAM\_19100+20300\_1RB#0+1RB#0



Date: 24.AUG.2020 08:52:32

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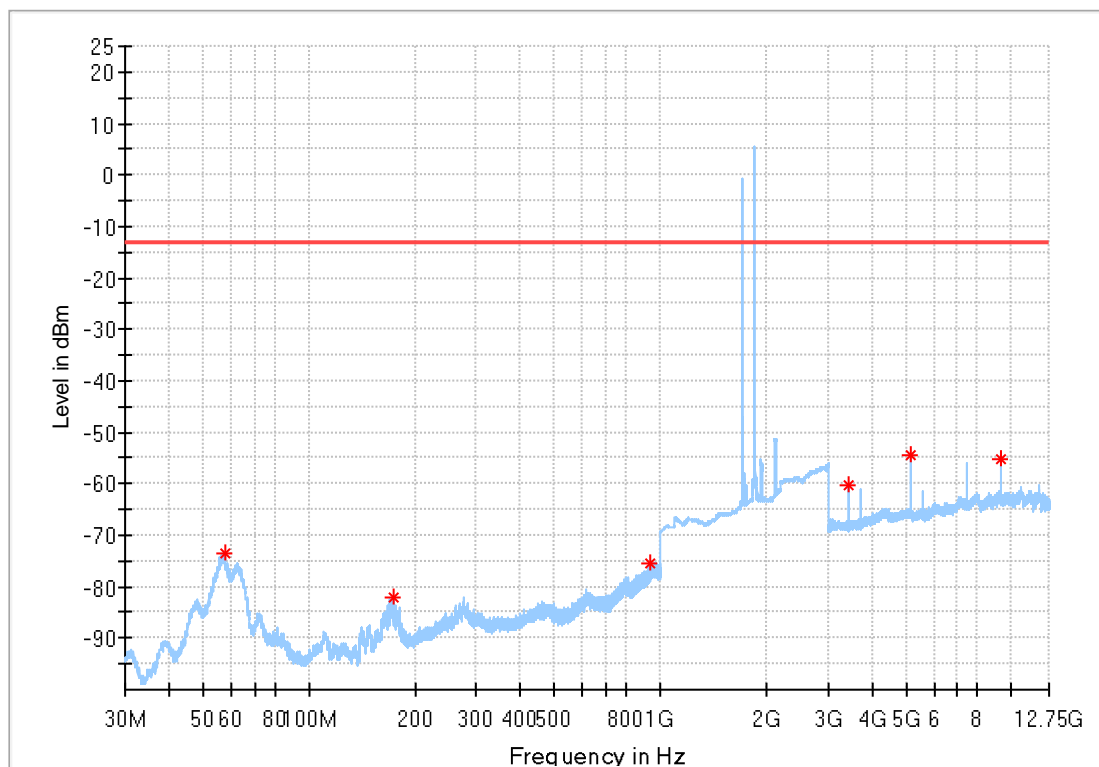


## 4 Field Strength of Spurious Radiation

### 4.1. Test Mode =LTE/TM1 20&20 MHz\_Ant Down

#### 4.1.1. Test Channel = LCH\_Horizontal

Full Spectrum



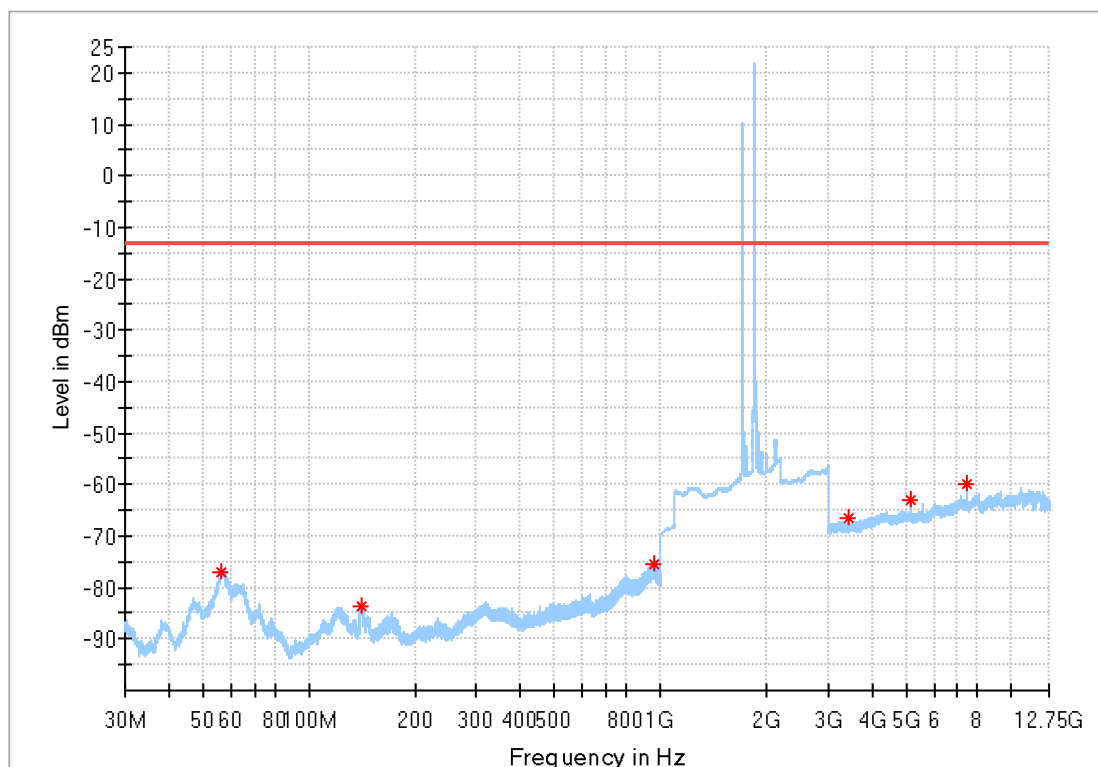
### Critical\_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.500000	-73.62	-13.00	60.62	---	---	135.0	H	1.0	-96.1
174.600000	-81.92	-13.00	68.92	---	---	185.0	H	31.0	-107.2
939.637500	-75.42	-13.00	62.42	---	---	248.0	H	199.0	-92.3
3421.850000	-60.15	-13.00	47.15	---	---	241.0	H	321.0	-105.7
5133.300000	-54.33	-13.00	41.33	---	---	168.0	H	359.0	-101.8
9255.275000	-55.18	-13.00	42.18	---	---	165.0	H	35.0	-97.2



## 4.1.2. Test Channel = LCH\_Vertical

Full Spectrum



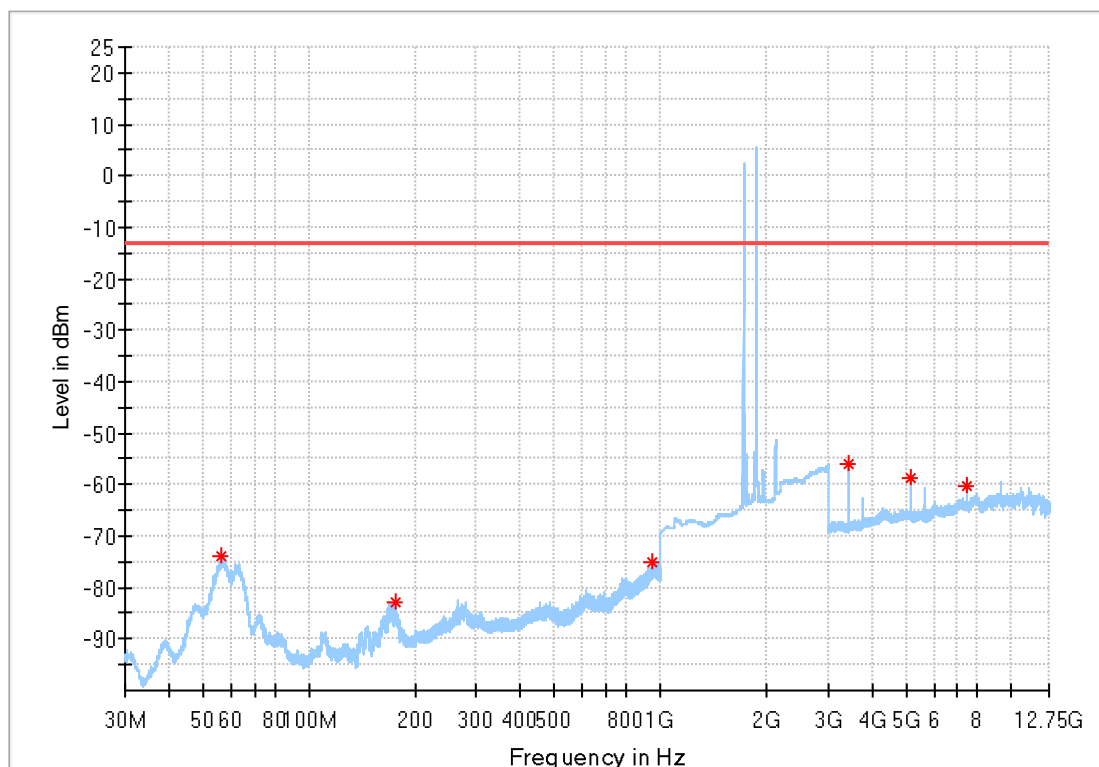
## Critical\_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.300000	-76.86	-13.00	63.86	---	---	180.0	V	21.0	-101.4
140.500000	-83.49	-13.00	70.49	---	---	235.0	V	127.0	-109.1
957.329167	-75.36	-13.00	62.36	---	---	185.0	V	208.0	-92.3
3421.850000	-66.52	-13.00	53.52	---	---	101.0	V	345.0	-105.5
5132.975000	-63.19	-13.00	50.19	---	---	149.0	V	359.0	-101.8
7404.075000	-59.79	-13.00	46.79	---	---	285.0	V	345.0	-99.6



## 4.1.3. Test Channel = MCH\_Horizontal

Full Spectrum



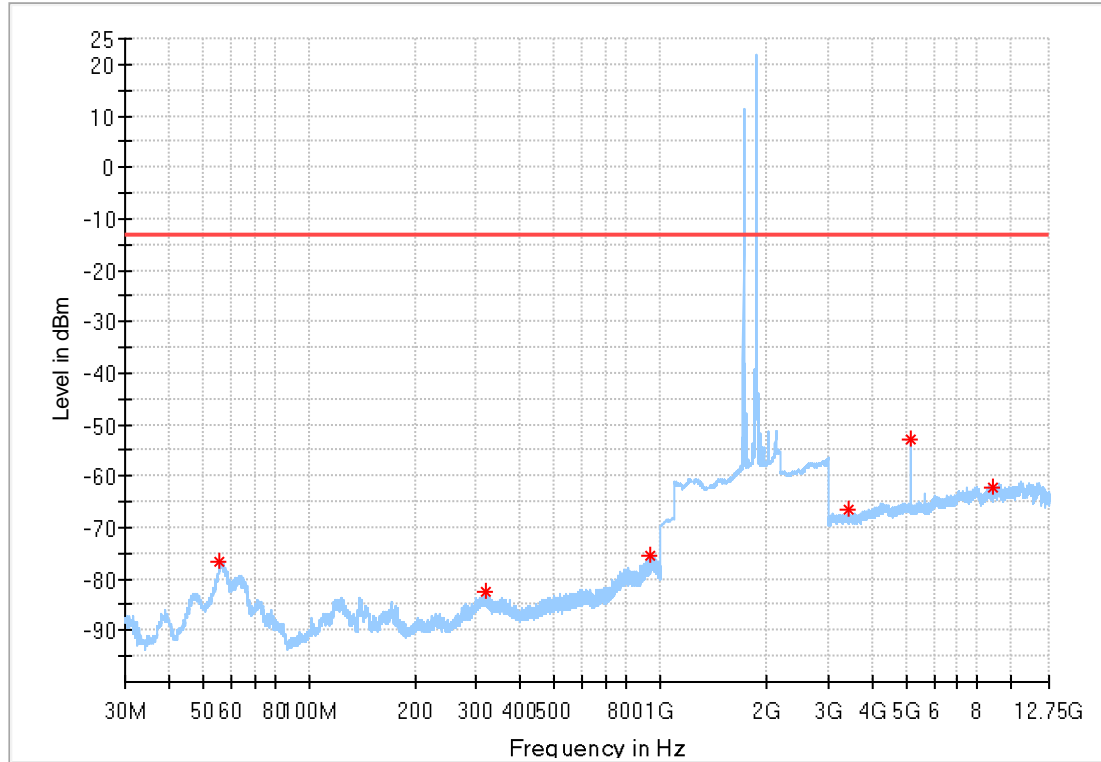
## Critical\_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.650000	-73.80	-13.00	60.80	---	---	188.0	H	1.0	-96.6
176.800000	-82.84	-13.00	69.84	---	---	133.0	H	223.0	-107.2
949.950000	-75.13	-13.00	62.13	---	---	157.0	H	147.0	-91.9
3447.200000	-56.13	-13.00	43.13	---	---	272.0	H	44.0	-105.5
5170.675000	-58.76	-13.00	45.76	---	---	230.0	H	358.0	-101.8
7484.350000	-60.34	-13.00	47.34	---	---	109.0	H	282.0	-99.4



#### 4.1.4. Test Channel = MCH\_ Vertical

Full Spectrum



#### Critical\_Freqs

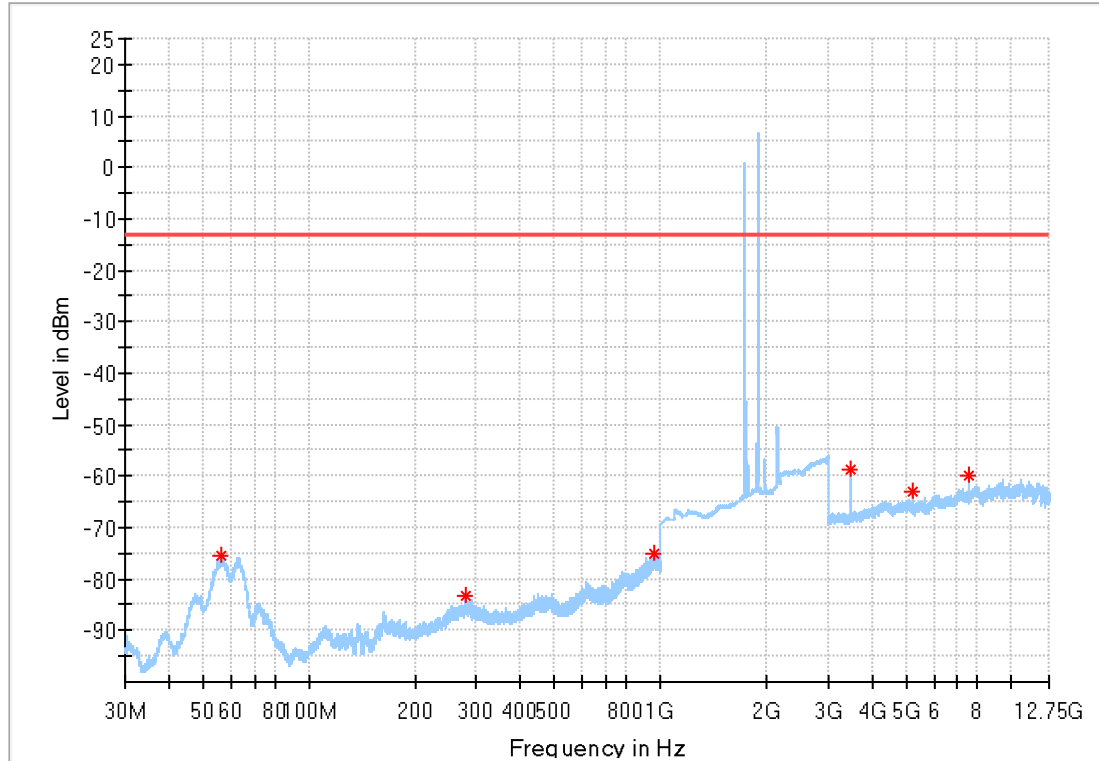
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.800000	-76.79	-13.00	63.79	---	---	290.0	V	1.0	-101.7
319.350000	-82.47	-13.00	69.47	---	---	117.0	V	234.0	-102.0
932.441667	-75.37	-13.00	62.37	---	---	167.0	V	59.0	-92.8
3447.200000	-66.36	-13.00	53.36	---	---	206.0	V	11.0	-105.4
5170.675000	-52.85	-13.00	39.85	---	---	239.0	V	1.0	-101.9
8883.475000	-62.36	-13.00	49.36	---	---	174.0	V	0.0	-97.5





#### 4.1.5. Test Channel = HCH\_Horizontal

Full Spectrum



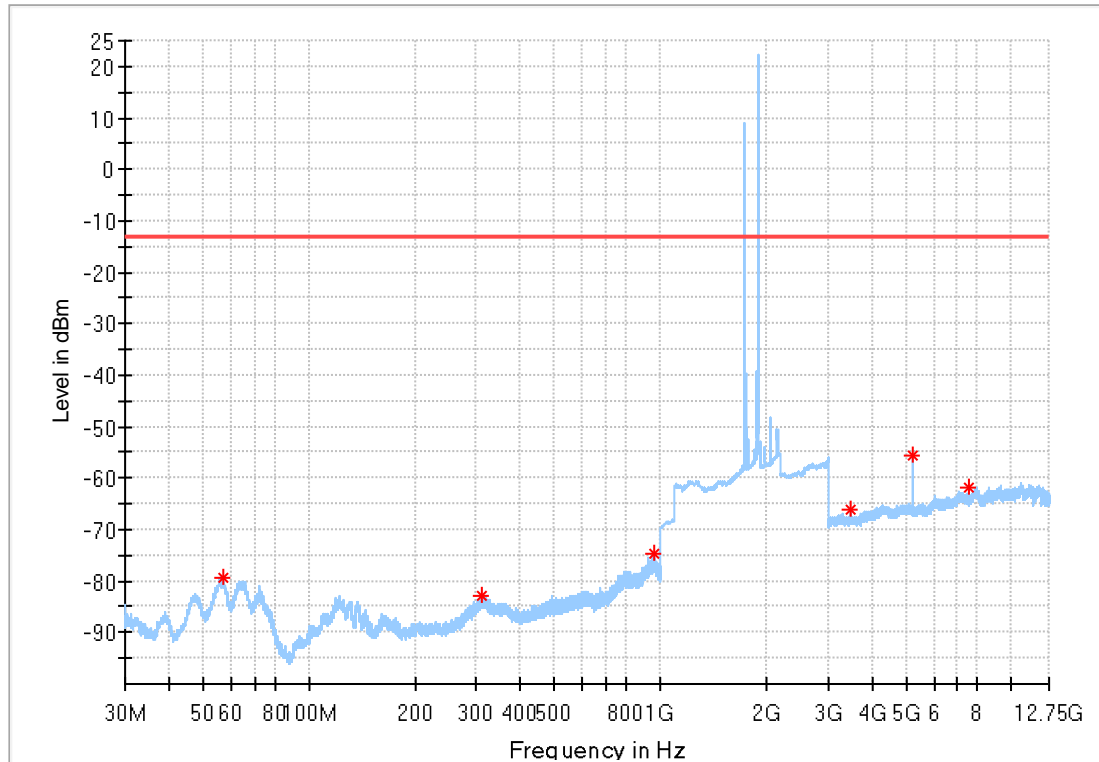
#### Critical\_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.250000	-75.35	-13.00	62.35	---	---	282.0	H	32.0	-96.9
279.550000	-83.44	-13.00	70.44	---	---	188.0	H	178.0	-102.8
957.512500	-75.06	-13.00	62.06	---	---	249.0	H	32.0	-91.8
3472.225000	-58.54	-13.00	45.54	---	---	156.0	H	319.0	-105.4
5207.725000	-63.20	-13.00	50.20	---	---	251.0	H	359.0	-101.9
7564.300000	-59.81	-13.00	46.81	---	---	226.0	H	282.0	-99.3



#### 4.1.6. Test Channel = HCH\_ Vertical

Full Spectrum



Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.150000	-79.49	-13.00	66.49	---	---	236.0	V	273.0	-101.3
309.450000	-82.93	-13.00	69.93	---	---	262.0	V	254.0	-102.1
956.275000	-74.81	-13.00	61.81	---	---	137.0	V	338.0	-92.3
3472.225000	-66.03	-13.00	53.03	---	---	235.0	V	345.0	-105.4
5208.375000	-55.60	-13.00	42.60	---	---	205.0	V	0.0	-101.9
7564.300000	-61.73	-13.00	48.73	---	---	108.0	V	345.0	-99.2

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 All modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

The End

