



# 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





**SCC**

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



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Band4	10MHz	64QAM	20350	1RB#49	21.85	25.85	30	PASS
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



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Band4	20MHz	QPSK	20175	50RB#0	21.55	25.55	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.72	25.72	30	PASS
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



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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
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]

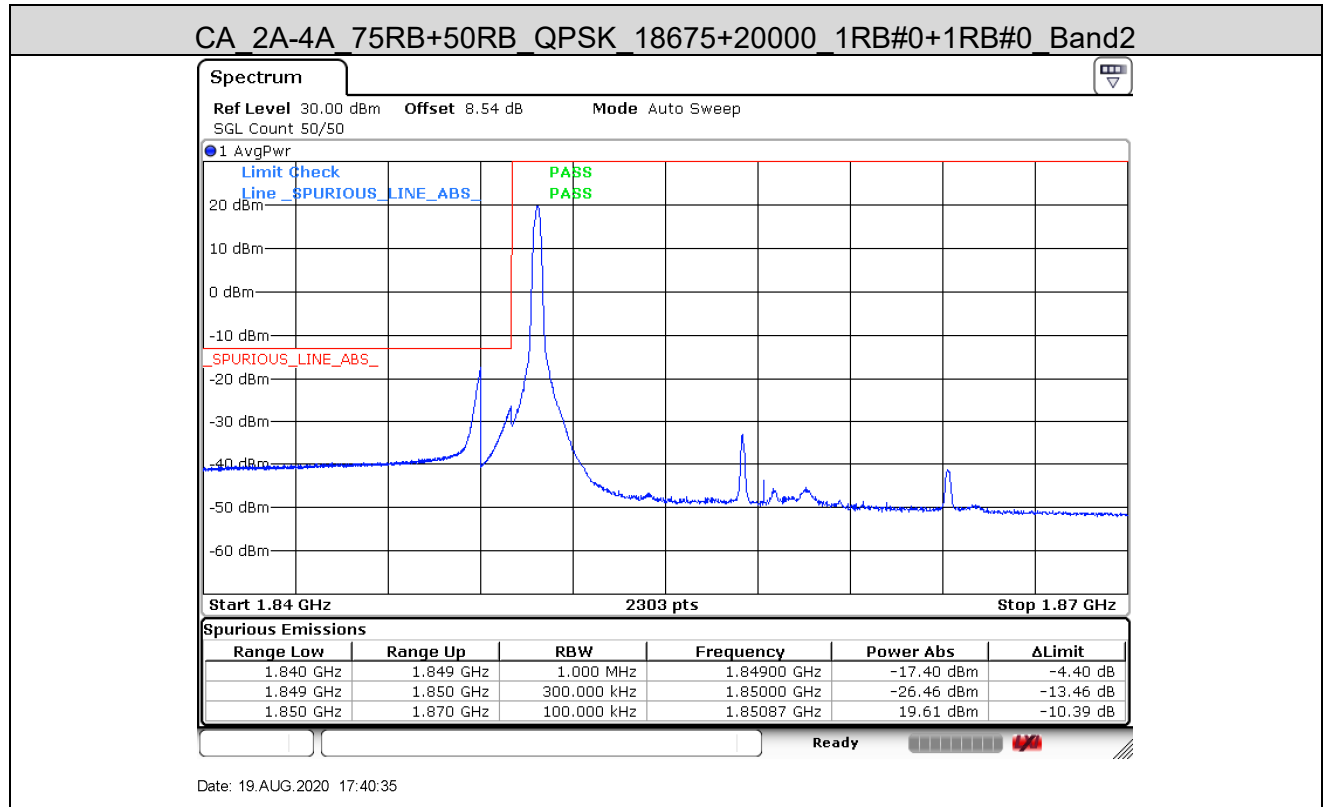
EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



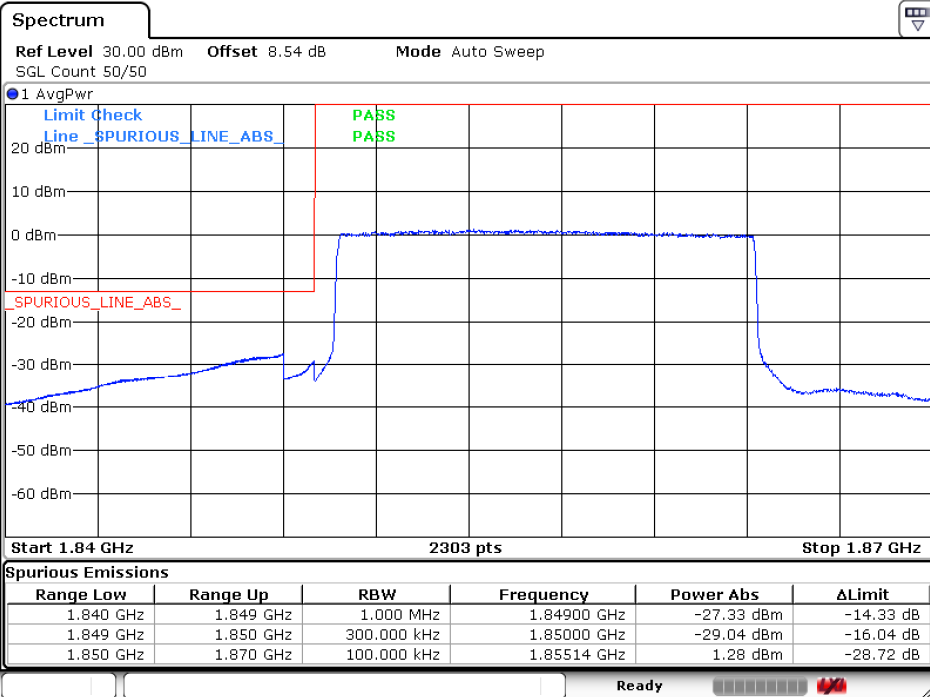
## 2 Band Edges Compliance

### 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



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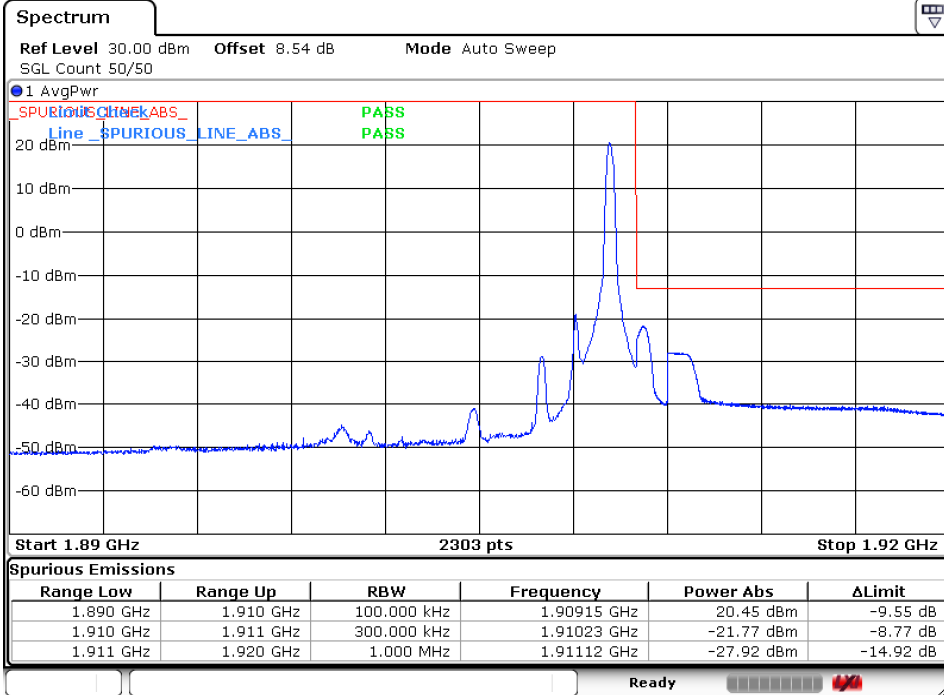
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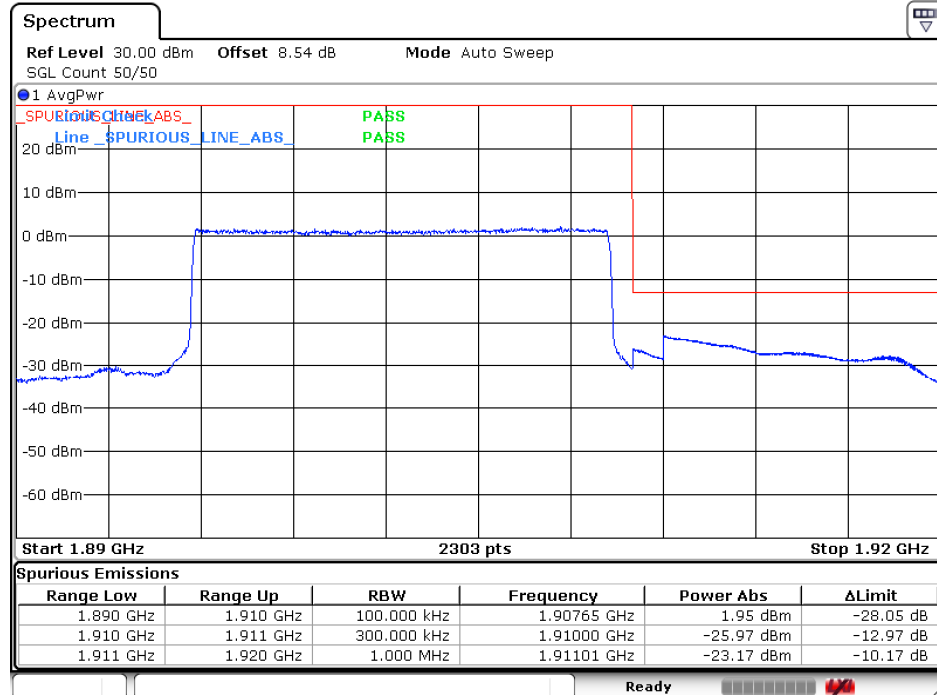


**CA 2A-4A 75RB+50RB QPSK 19125+20350 1RB#74+1RB#49 Band2**



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

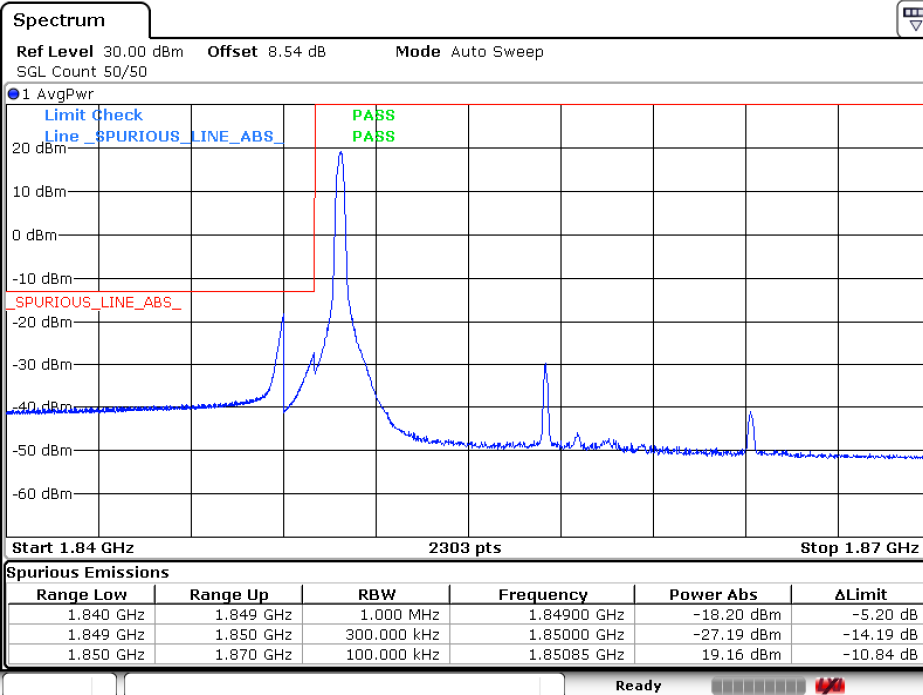
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Date: 19.AUG.2020 17:51:30

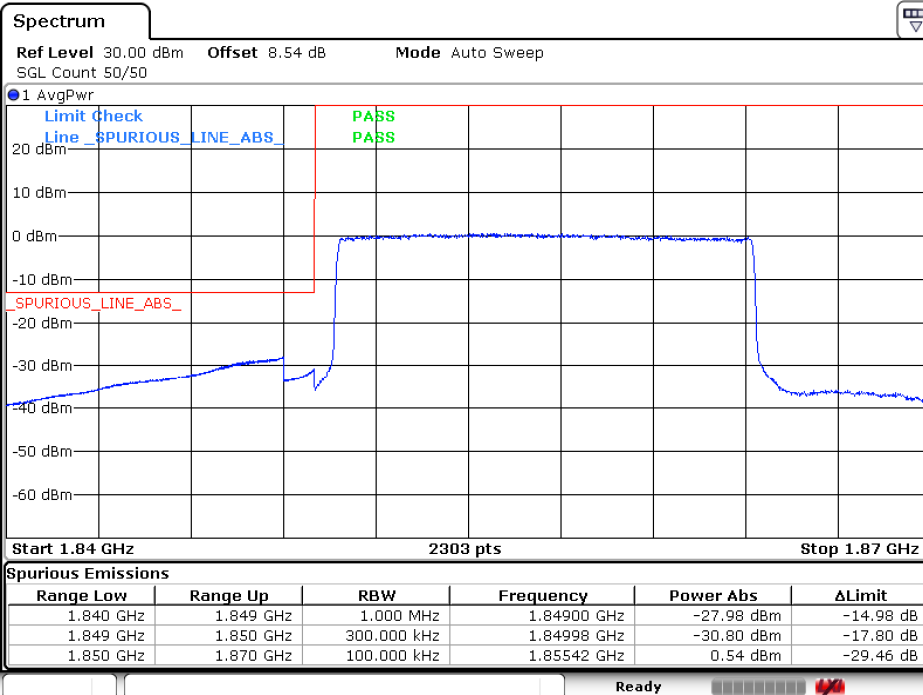


## CA 2A-4A 75RB+50RB 16QAM 18675+20000 1RB#0+1RB#0 Band2



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

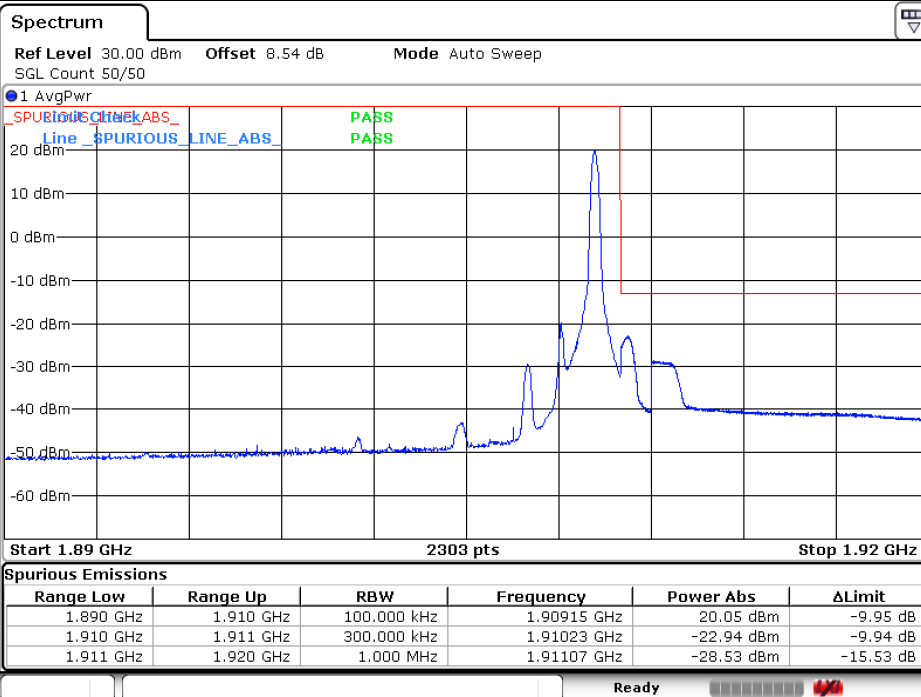
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Date: 19.AUG.2020 17:39:27

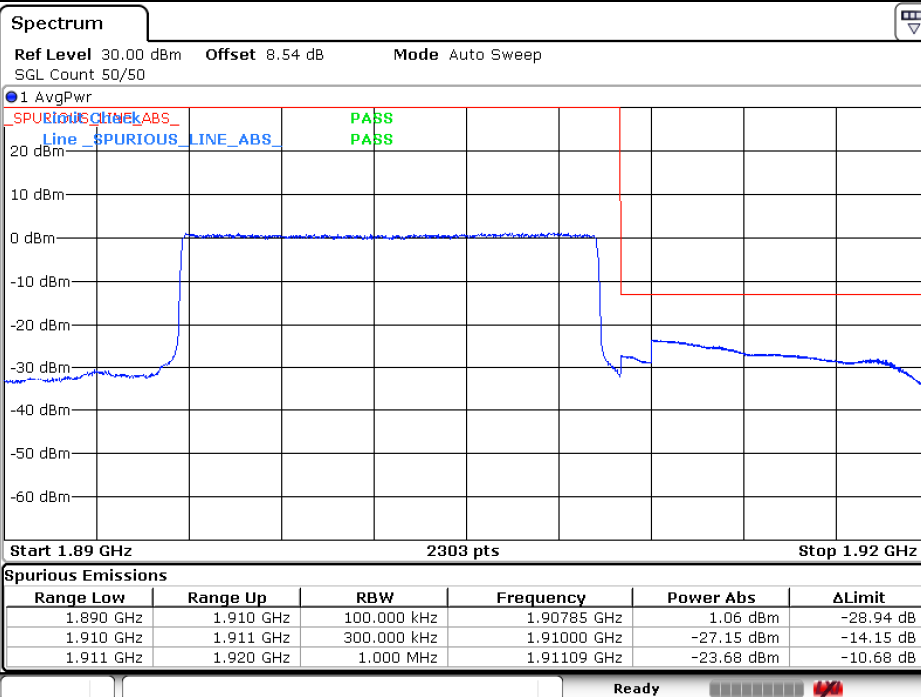


## CA 2A-4A 75RB+50RB 16QAM 19125+20350 1RB#74+1RB#49 Band2



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

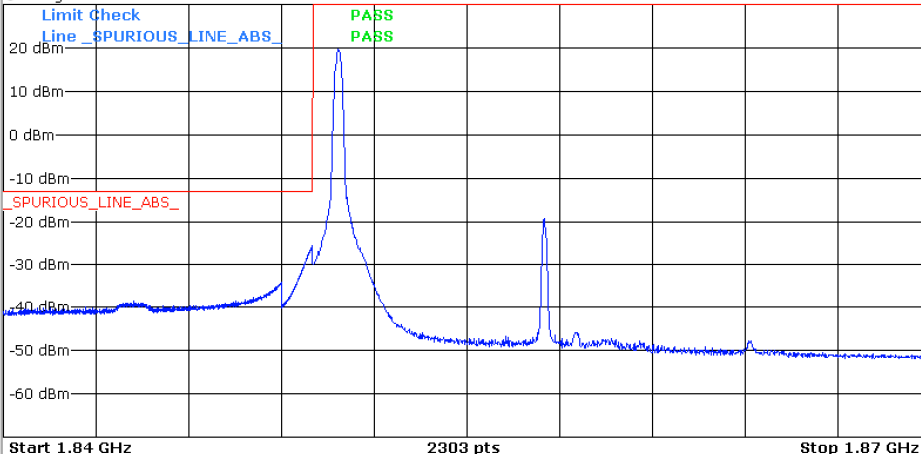


## CA 2A-4A 75RB+50RB 64QAM 18675+20000 1RB#0+1RB#0 Band2

### 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
1.840 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-34.21 dBm	-21.21 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.85000 GHz	-25.65 dBm	-12.65 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85083 GHz	19.64 dBm	-10.36 dB

Ready

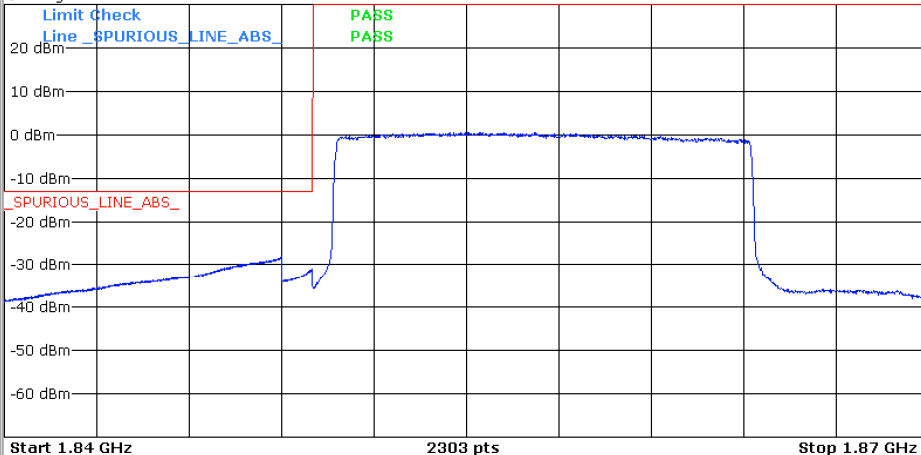
Date: 23.AUG.2020 21:35:00

## CA 2A-4A 75RB+50RB 64QAM 18675+20000 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 Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-28.12 dBm	-15.12 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.85000 GHz	-31.01 dBm	-18.01 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85506 GHz	0.48 dBm	-29.52 dB

Ready

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



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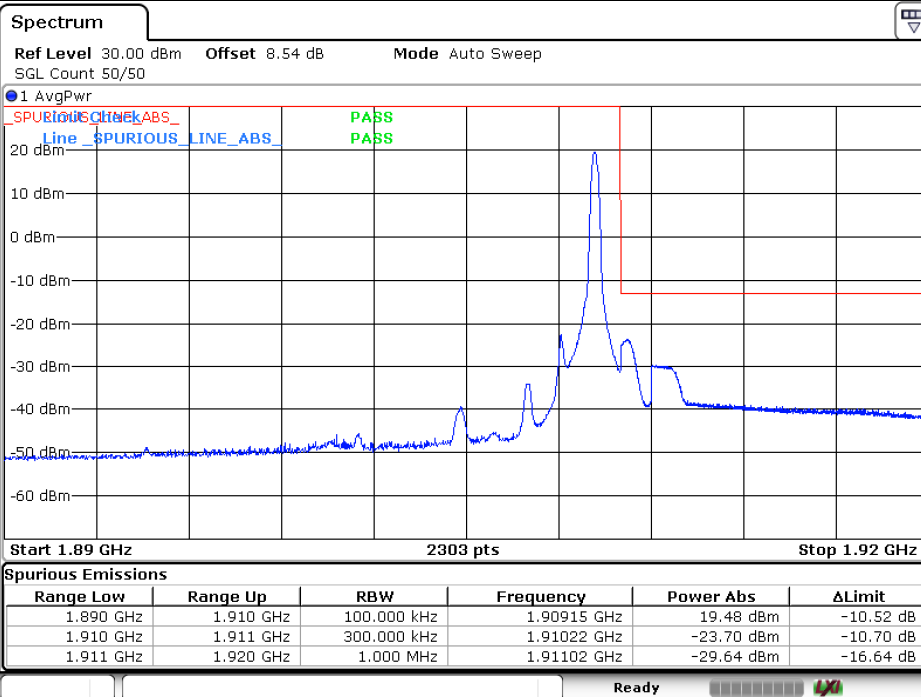
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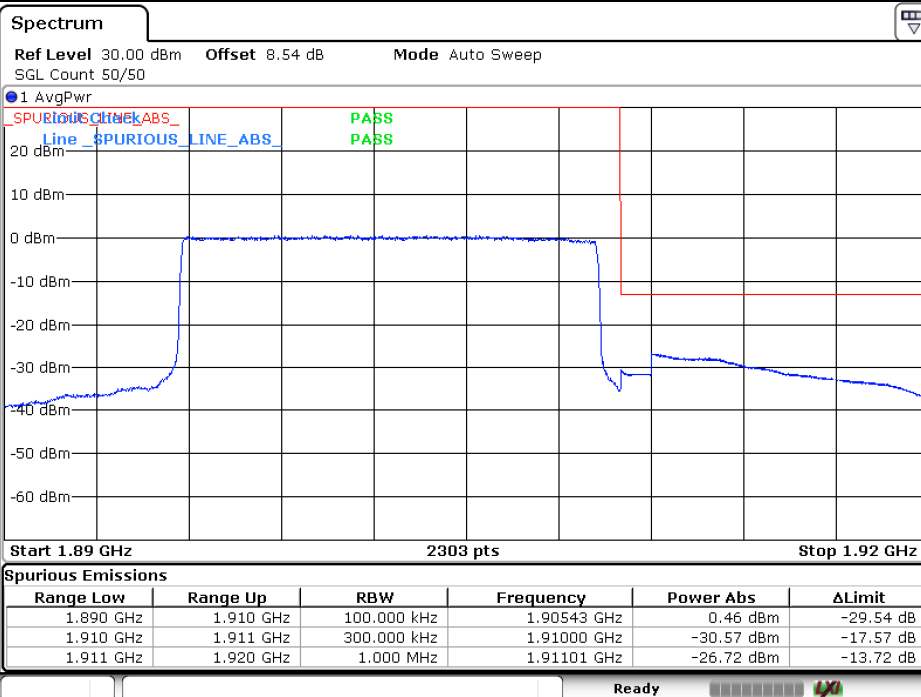


## CA 2A-4A 75RB+50RB 64QAM 19125+20350 1RB#74+1RB#49 Band2



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

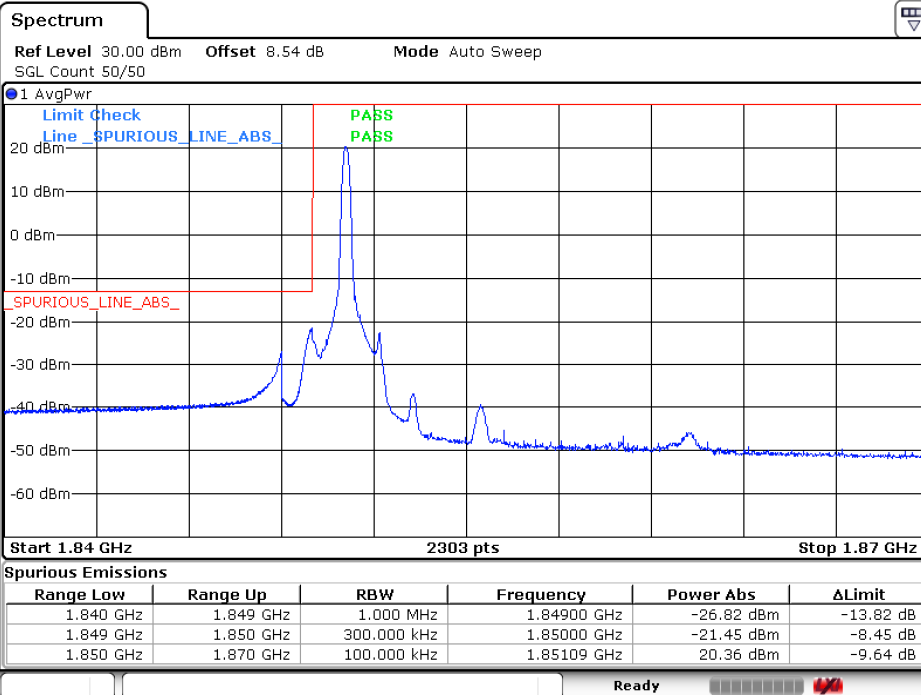
## CA 2A-4A 75RB+50RB 64QAM 19125+20350 75RB#0+50RB#0 Band2



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

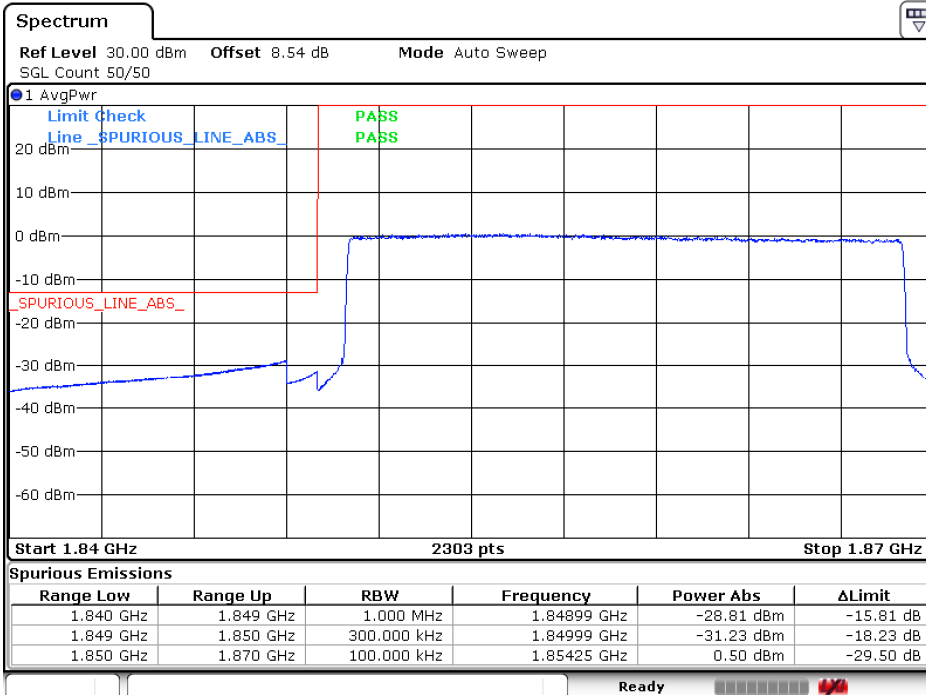


## CA 2A-4A 100RB+100RB QPSK 18700+20050 1RB#0+1RB#0 Band2



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



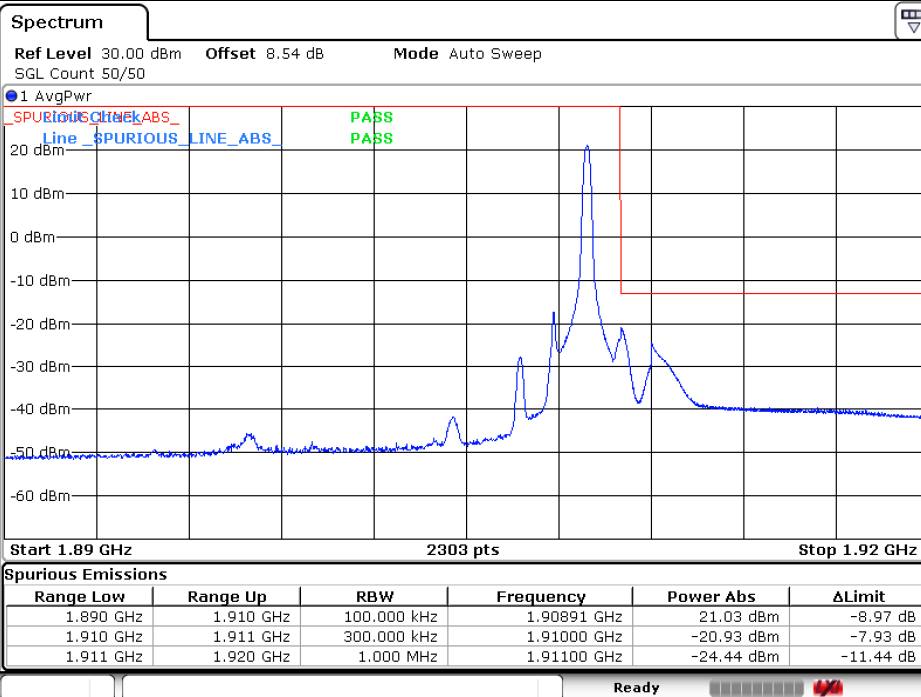
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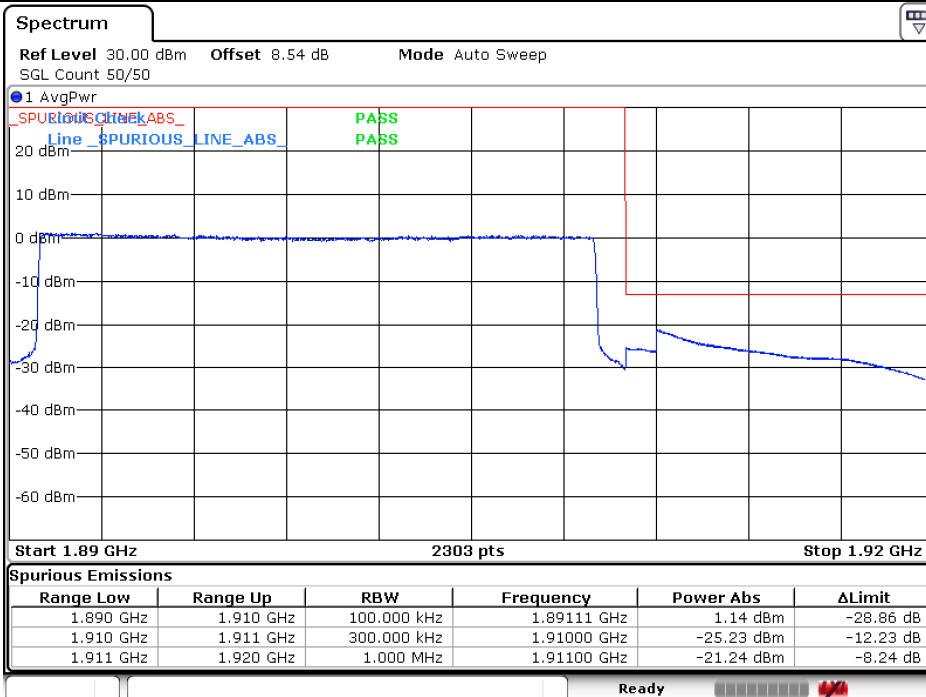
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## CA 2A-4A 100RB+100RB QPSK 19100+20300 1RB#99+1RB#99 Band2



Date: 19.AUG.2020 17:26:40

## CA 2A-4A 100RB+100RB QPSK 19100+20300 100RB#0+100RB#0 Band2



Date: 19.AUG.2020 17:27:14



## CA 2A-4A 100RB+100RB 16QAM 18700+20050 1RB#0+1RB#0 Band2

## Spectrum

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

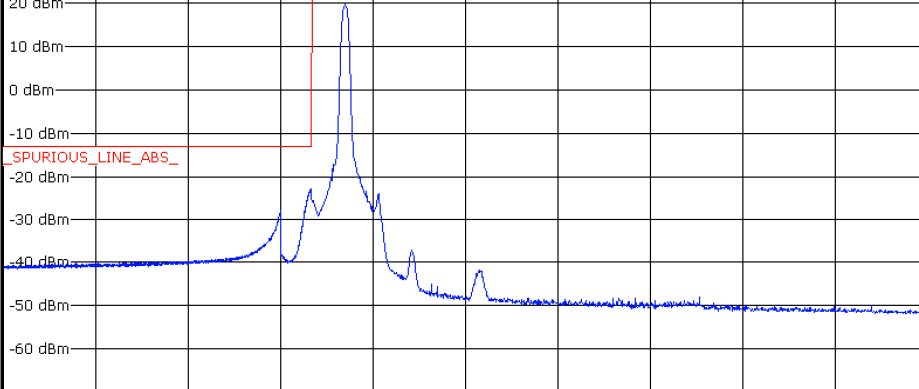
1 AvgPwr

Limit Check

Line SPURIOUS\_LINE\_ABS\_

PASS

PASS



Start 1.84 GHz 2303 pts Stop 1.87 GHz

## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-27.65 dBm	-14.65 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.85000 GHz	-22.81 dBm	-9.81 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85109 GHz	19.68 dBm	-10.32 dB

Ready

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

## CA 2A-4A 100RB+100RB 16QAM 18700+20050 100RB#0+100RB#0 Band2

## Spectrum

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

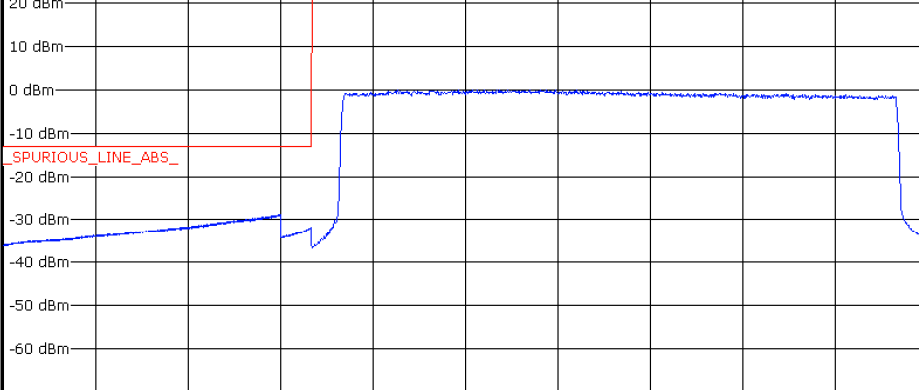
1 AvgPwr

Limit Check

Line SPURIOUS\_LINE\_ABS\_

PASS

PASS



Start 1.84 GHz 2303 pts Stop 1.87 GHz

## Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-28.82 dBm	-15.82 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.85000 GHz	-31.89 dBm	-18.89 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85602 GHz	0.03 dBm	-29.97 dB

Ready

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

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Shenzhen Branch (Shenzhen) Laboratory

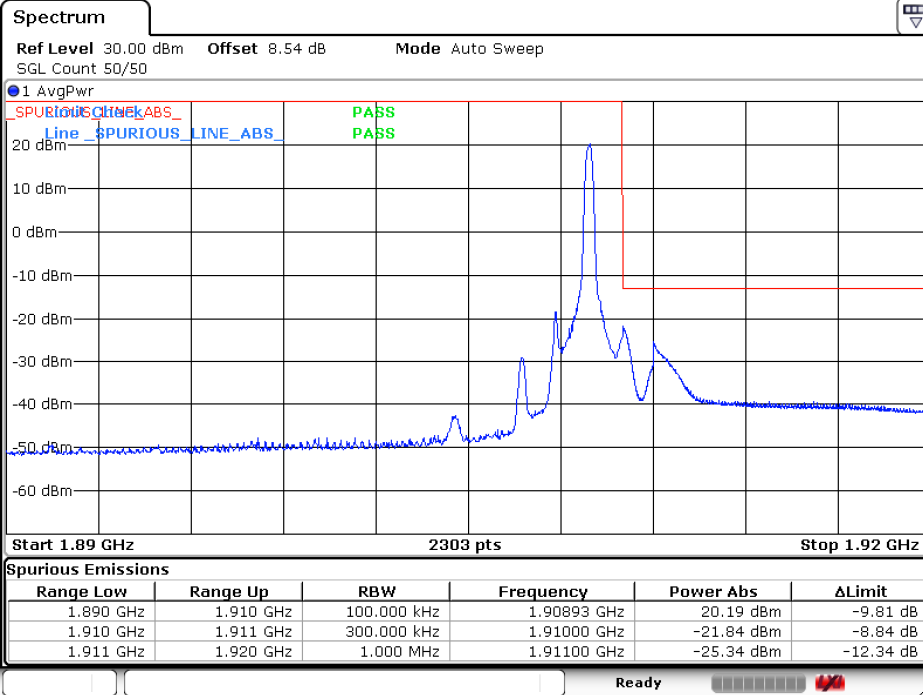
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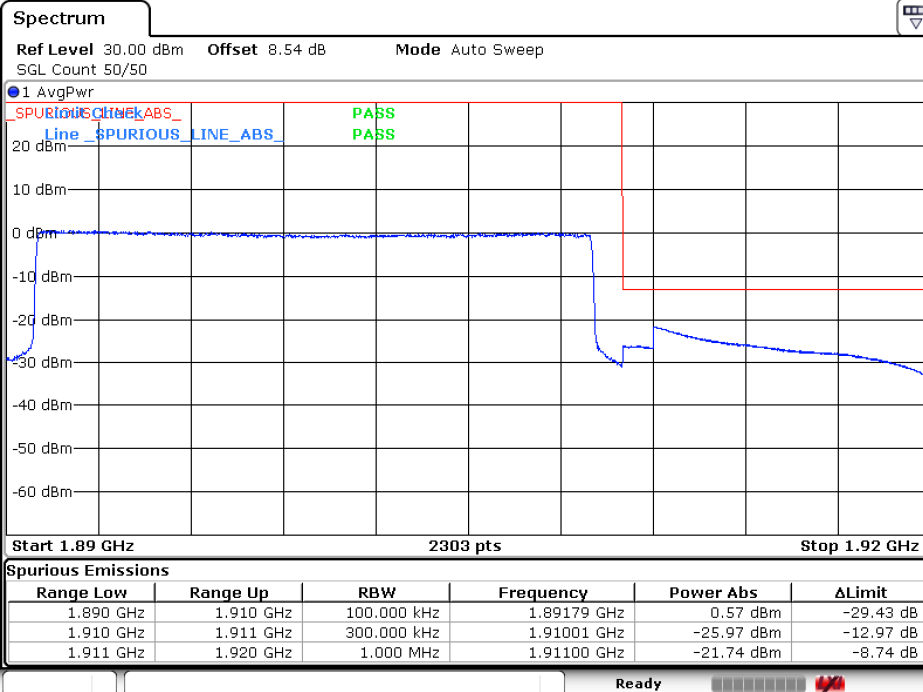


**CA 2A-4A 100RB+100RB 16QAM 19100+20300 1RB#99+1RB#99 Band2**



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

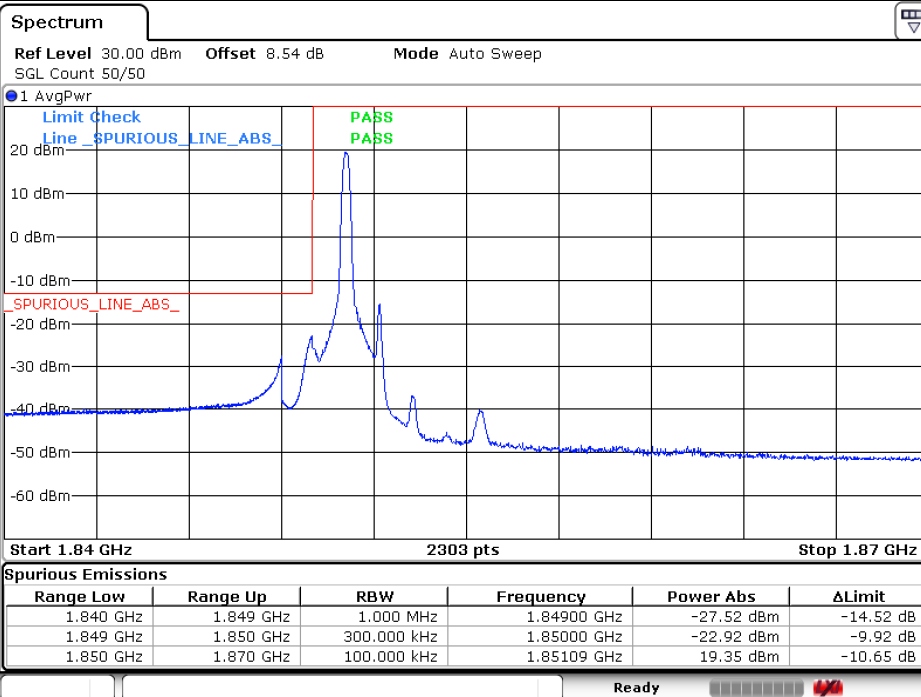
**CA 2A-4A 100RB+100RB 16QAM 19100+20300 100RB#0+100RB#0 Band2**



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

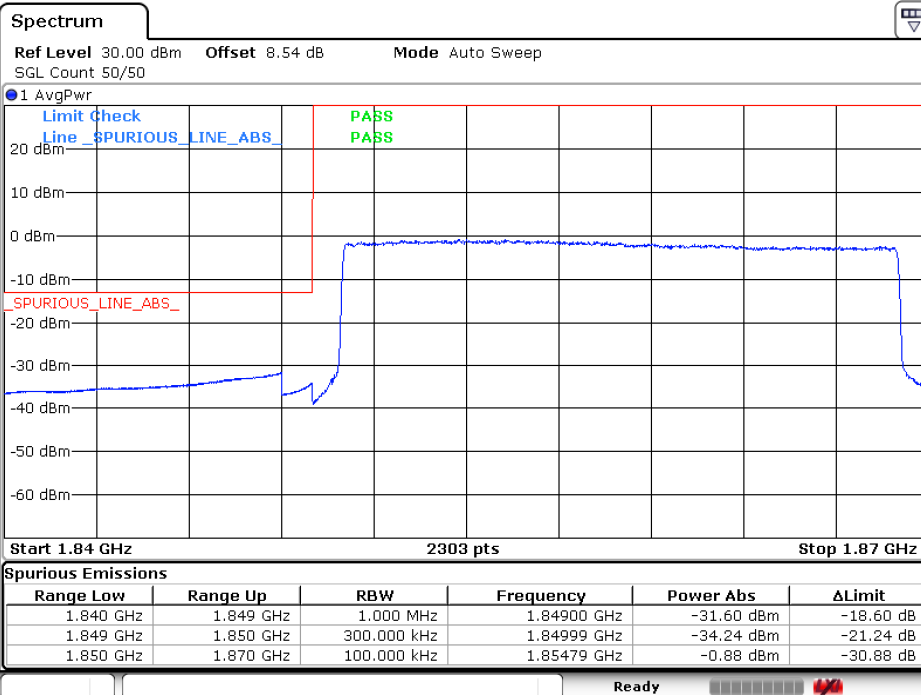


## CA 2A-4A 100RB+100RB 64QAM 18700+20050 1RB#0+1RB#0 Band2



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

## CA 2A-4A 100RB+100RB 64QAM 18700+20050 100RB#0+100RB#0 Band2



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





CA 2A-4A 100RB+100RB 64QAM 19100+20300 1RB#99+1RB#99 Band2

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 1.89 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	1.90891 GHz	19.89 dBm	-10.11 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91000 GHz	-26.97 dBm	-13.97 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-27.48 dBm	-14.48 dB

Ready

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

CA 2A-4A 100RB+100RB 64QAM 19100+20300 100RB#0+100RB#0 Band2

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 1.89 GHz

2303 pts

Stop 1.92 GHz

Spurious Emissions

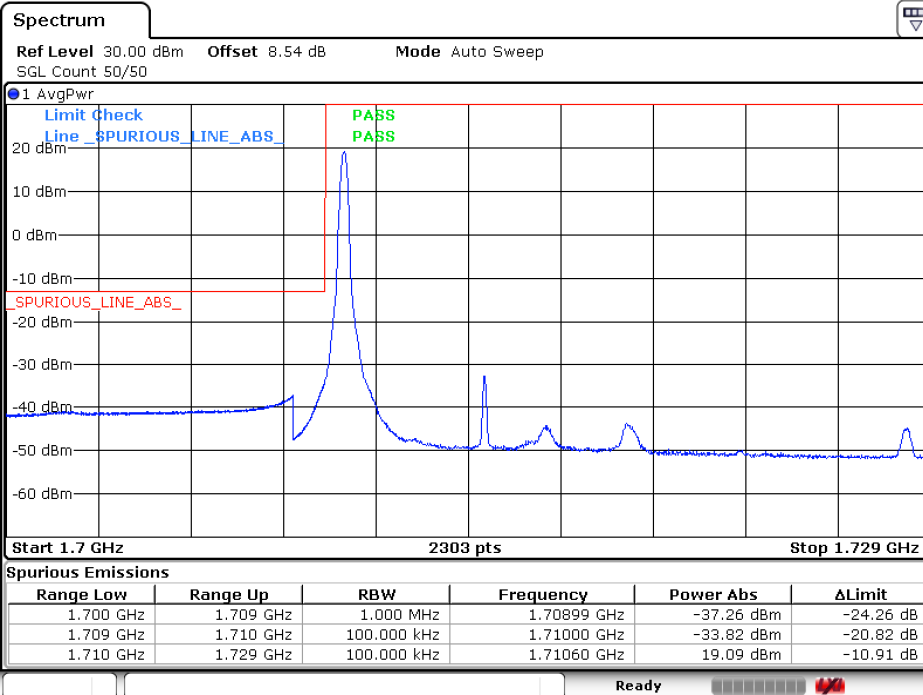
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90543 GHz	-0.69 dBm	-30.69 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91000 GHz	-32.10 dBm	-19.10 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91103 GHz	-27.99 dBm	-14.99 dB

Ready

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

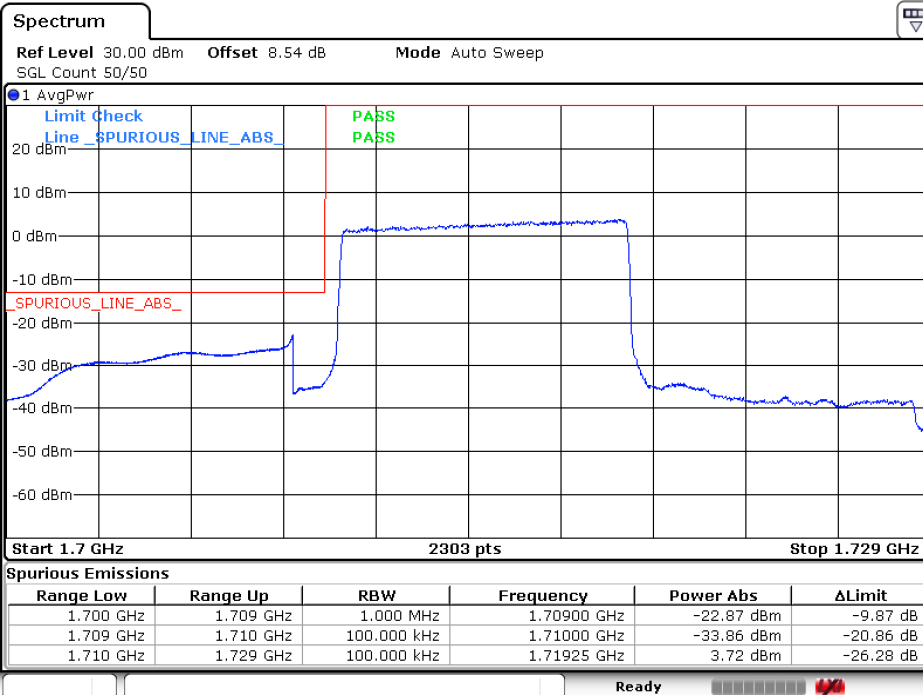


## CA 2A-4A 75RB+50RB QPSK 18675+20000 1RB#0+1RB#0 Band4



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

## CA 2A-4A 75RB+50RB QPSK 18675+20000 75RB#0+50RB#0 Band4

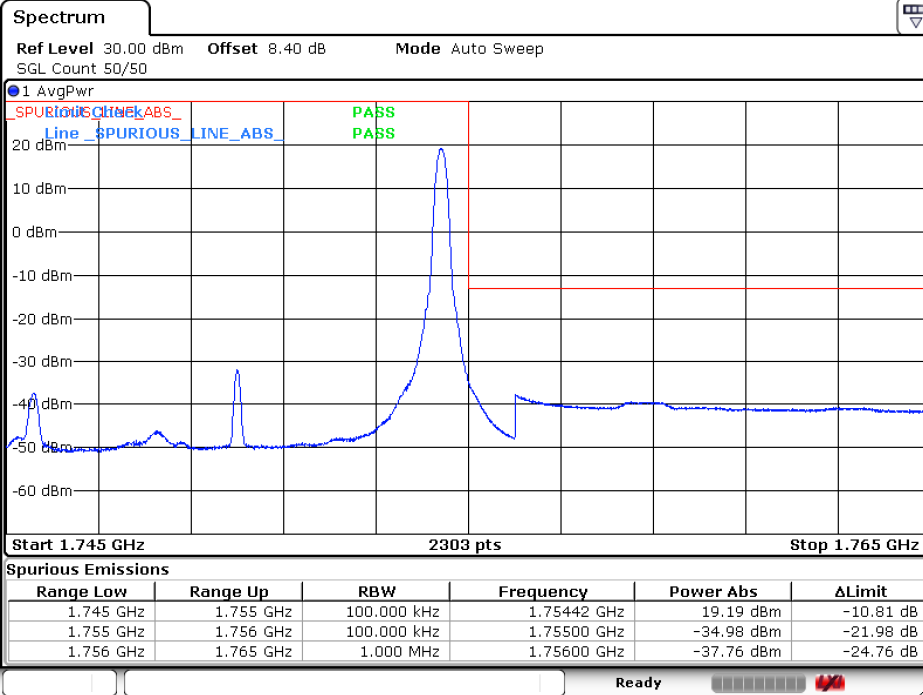


Date: 19.AUG.2020 17:43:36



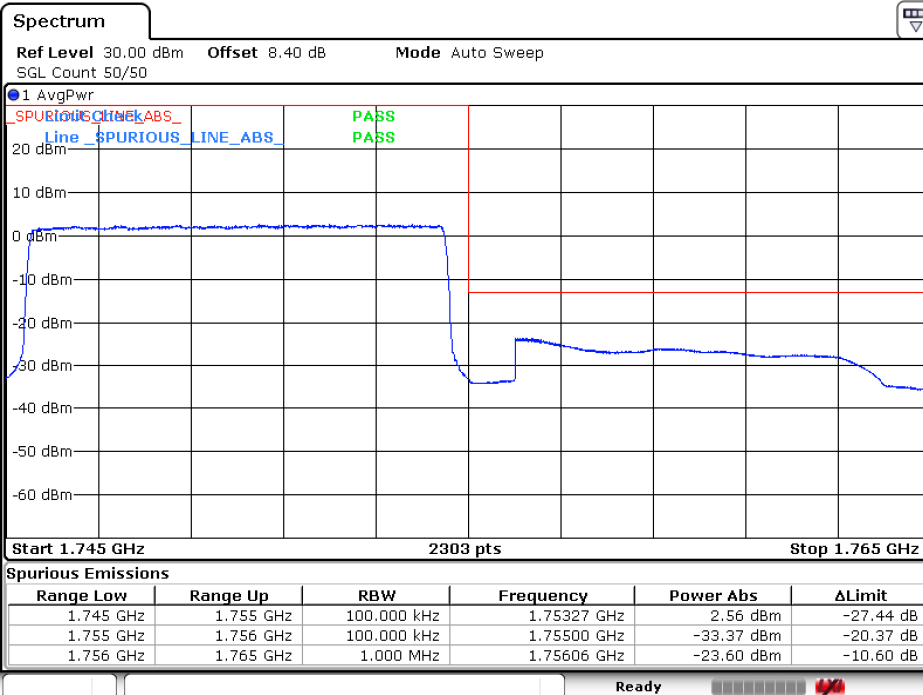


**CA 2A-4A 75RB+50RB QPSK 19125+20350 1RB#74+1RB#49 Band4**



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

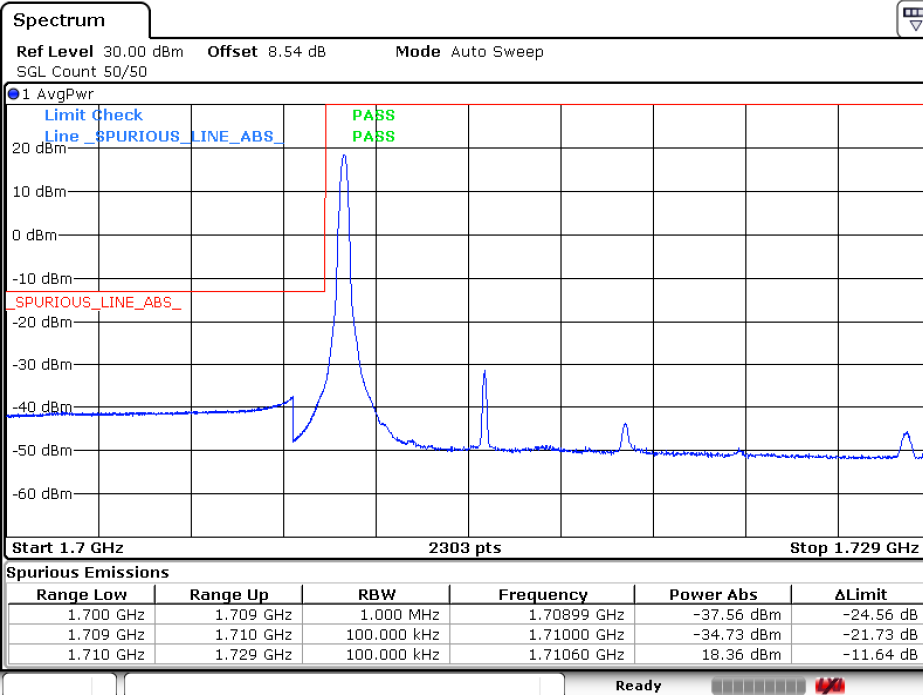
**CA 2A-4A 75RB+50RB QPSK 19125+20350 75RB#0+50RB#0 Band4**



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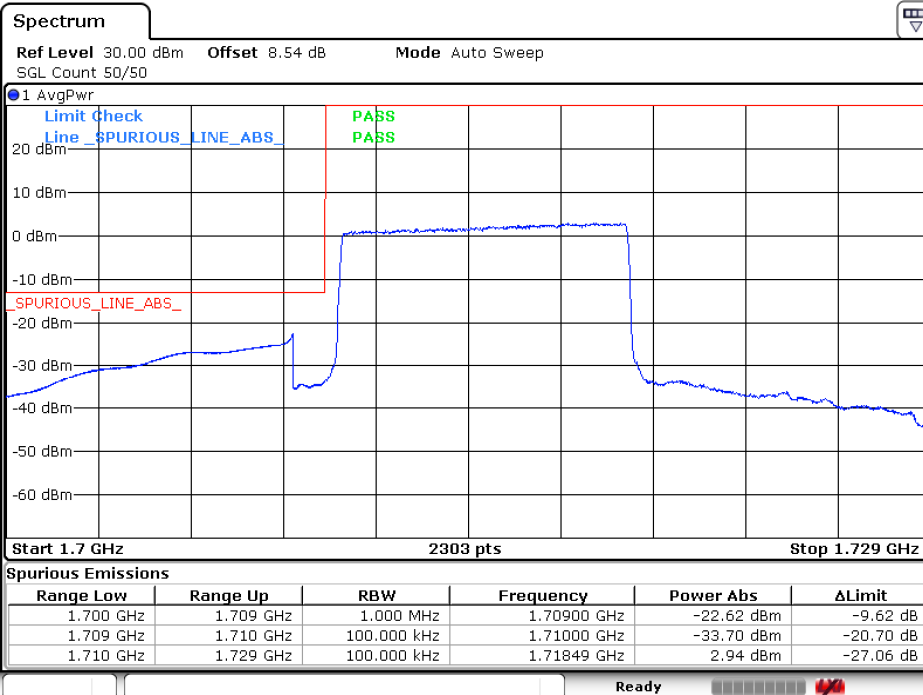


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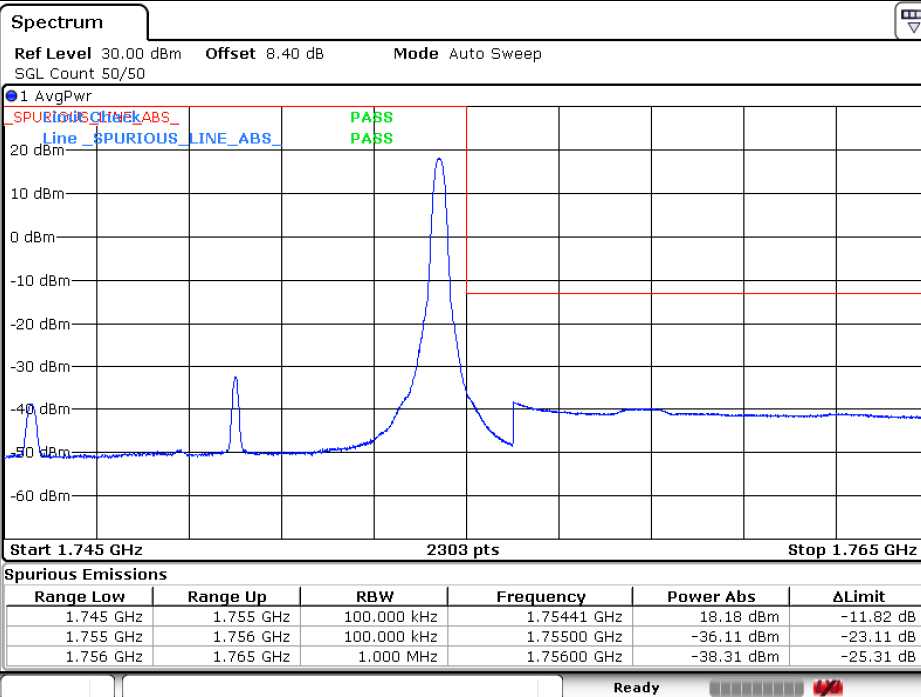
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Date: 19.AUG.2020 17:43:02

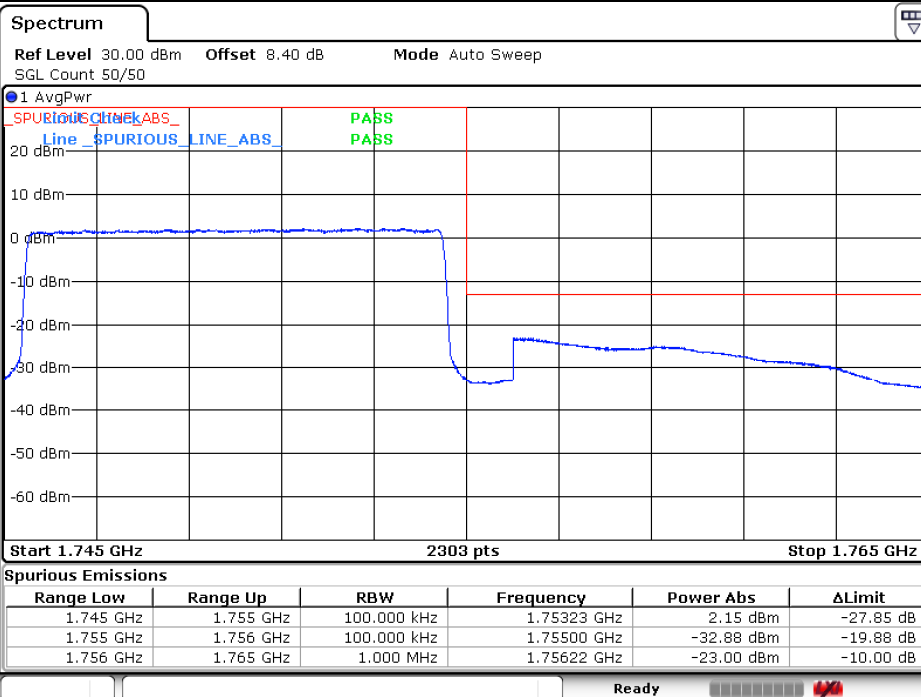


## CA 2A-4A 75RB+50RB 16QAM 19125+20350 1RB#74+1RB#49 Band4



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

## CA 2A-4A 75RB+50RB 16QAM 19125+20350 75RB#0+50RB#0 Band4



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

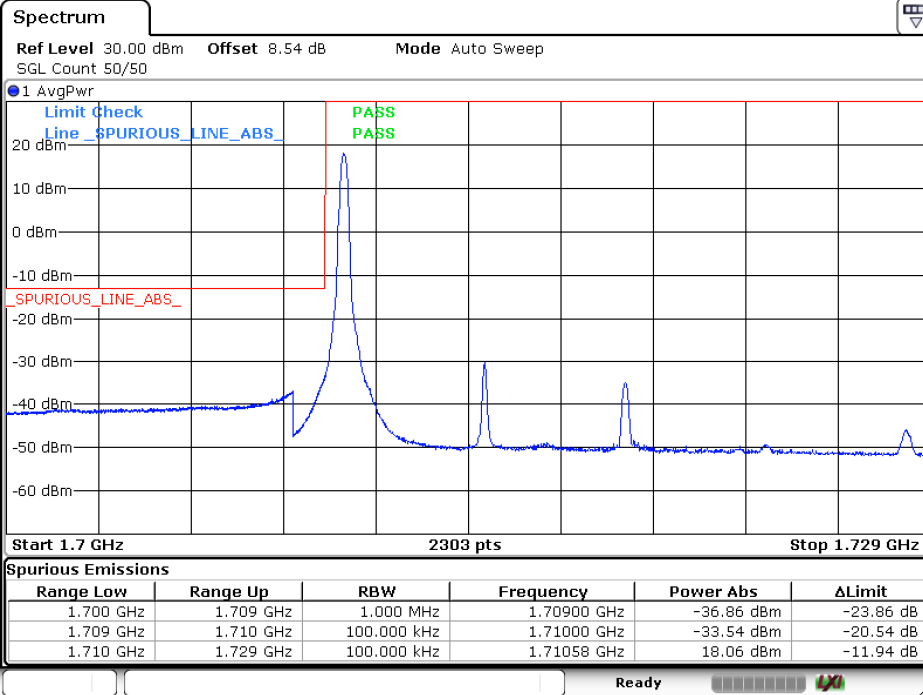


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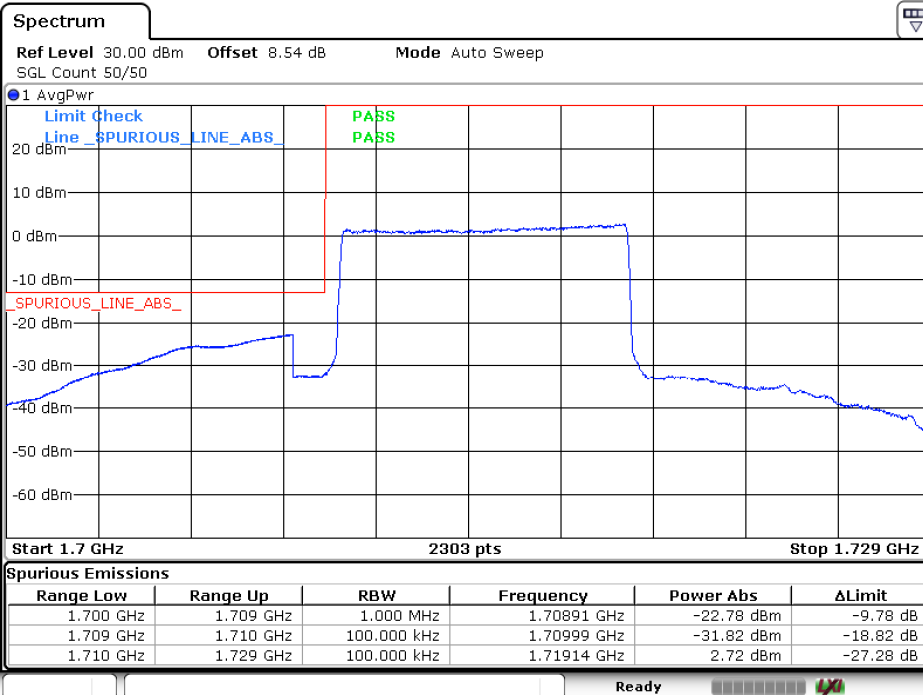
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## CA 2A-4A 75RB+50RB 64QAM 18675+20000 1RB#0+1RB#0 Band4



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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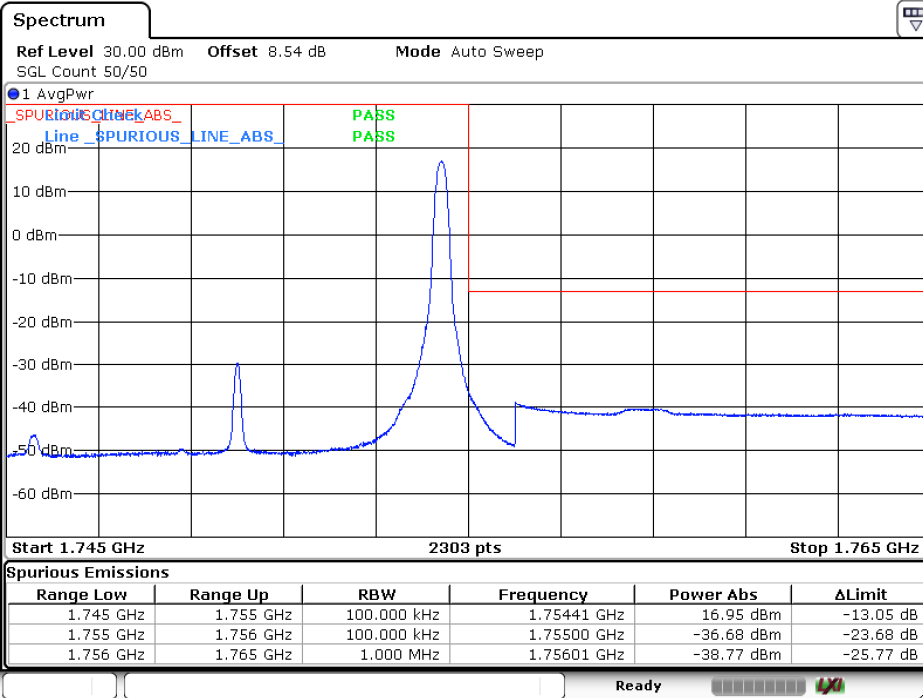
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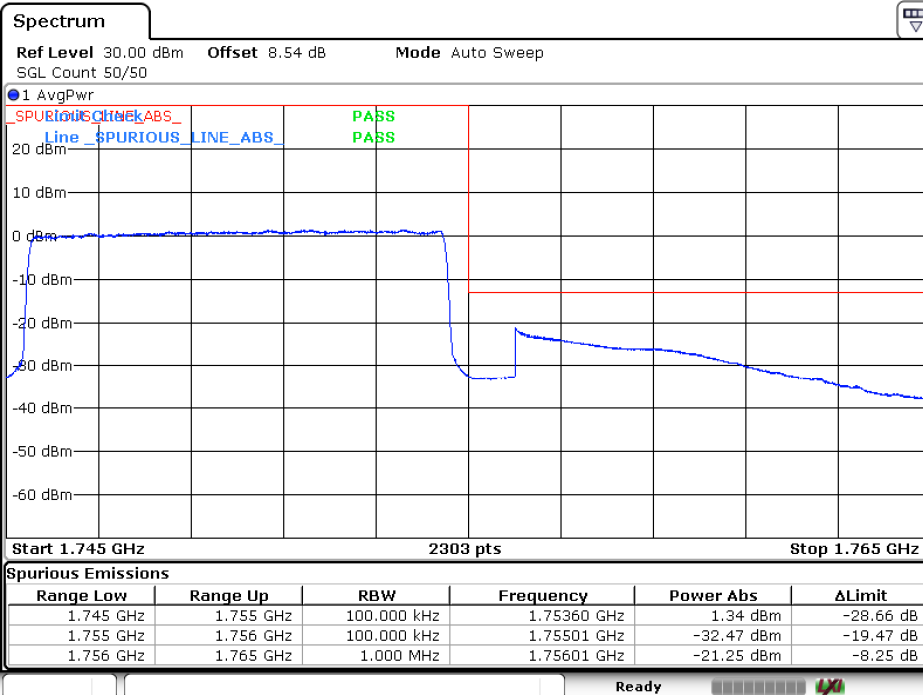


## CA 2A-4A 75RB+50RB 64QAM 19125+20350 1RB#74+1RB#49 Band4



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

## CA 2A-4A 75RB+50RB 64QAM 19125+20350 75RB#0+50RB#0 Band4



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



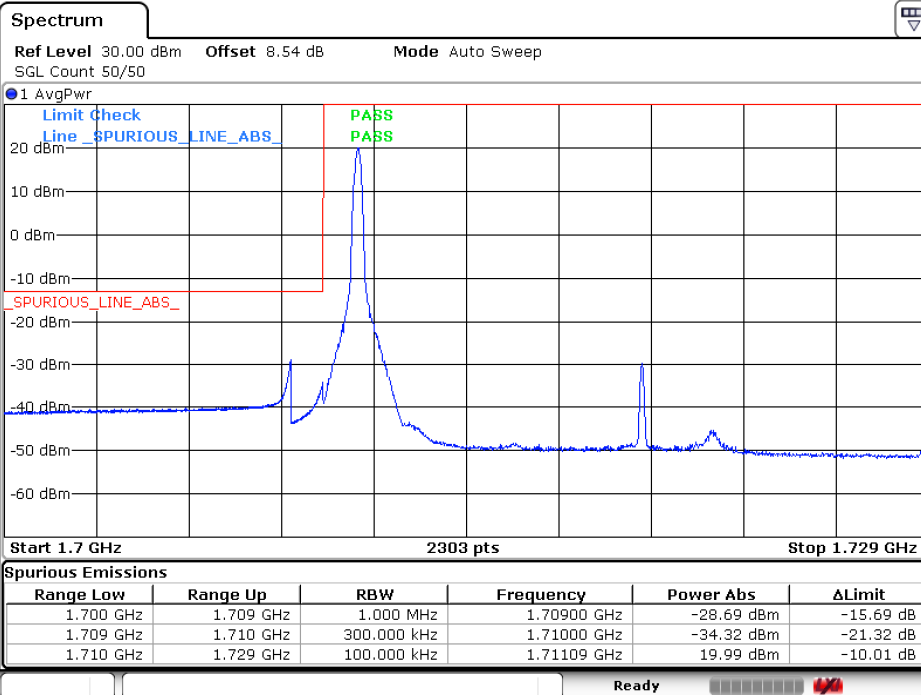
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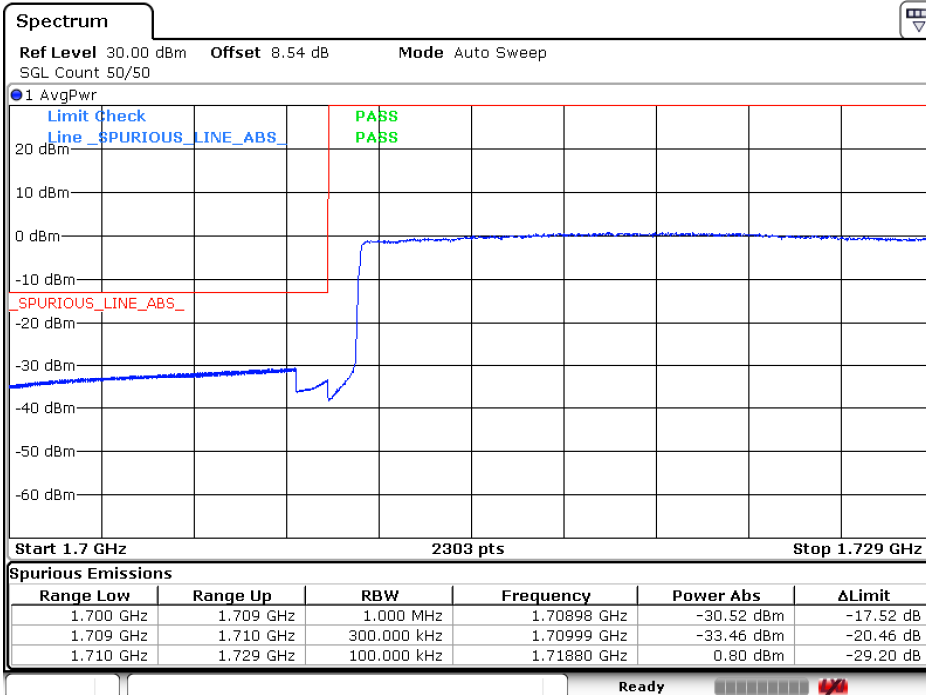
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## CA 2A-4A 100RB+100RB QPSK 18700+20050 1RB#0+1RB#0 Band4



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

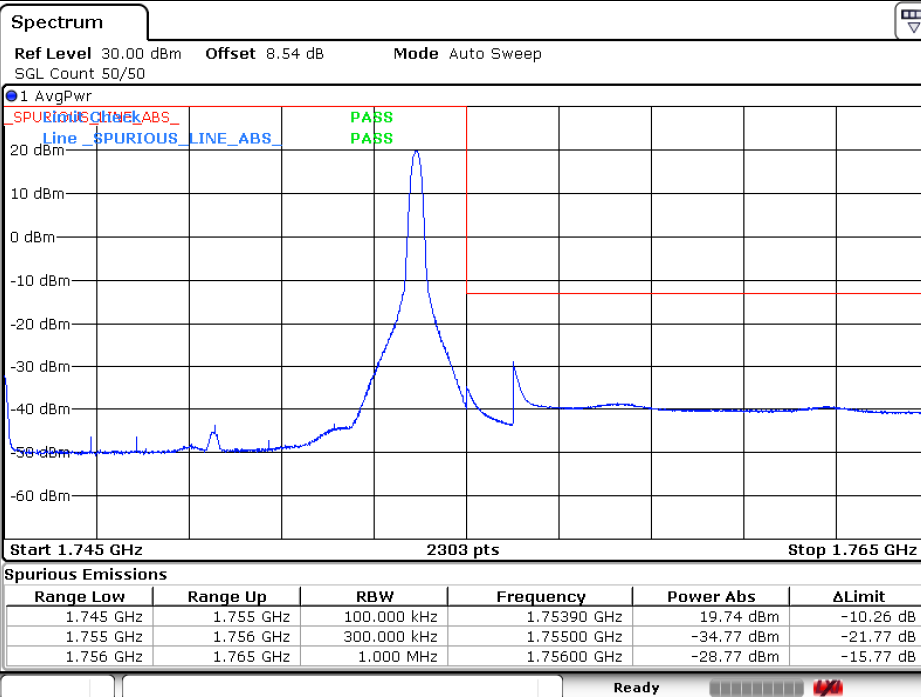
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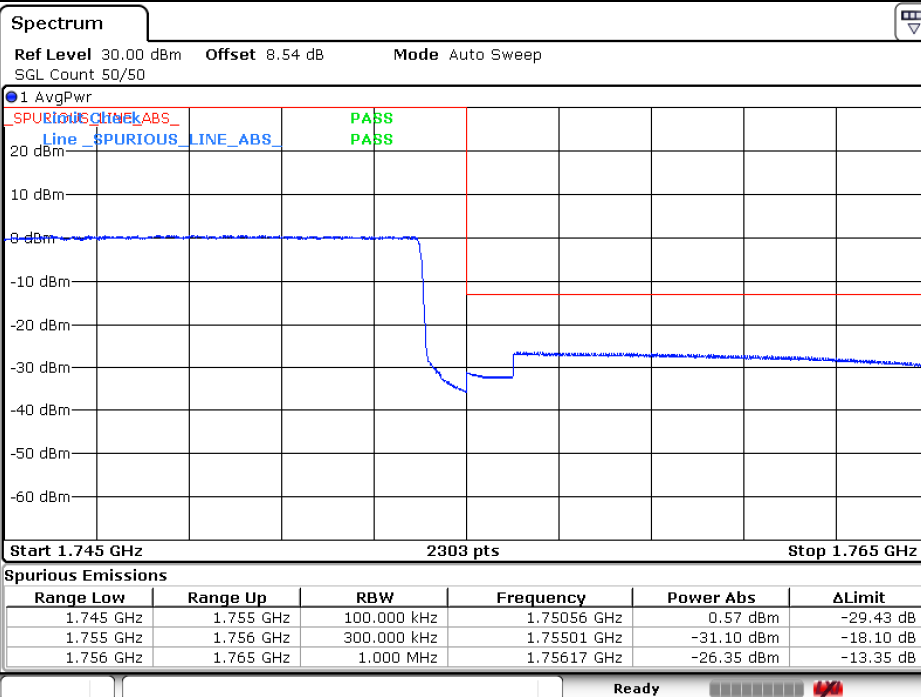


## CA 2A-4A 100RB+100RB QPSK 19100+20300 1RB#99+1RB#99 Band4



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



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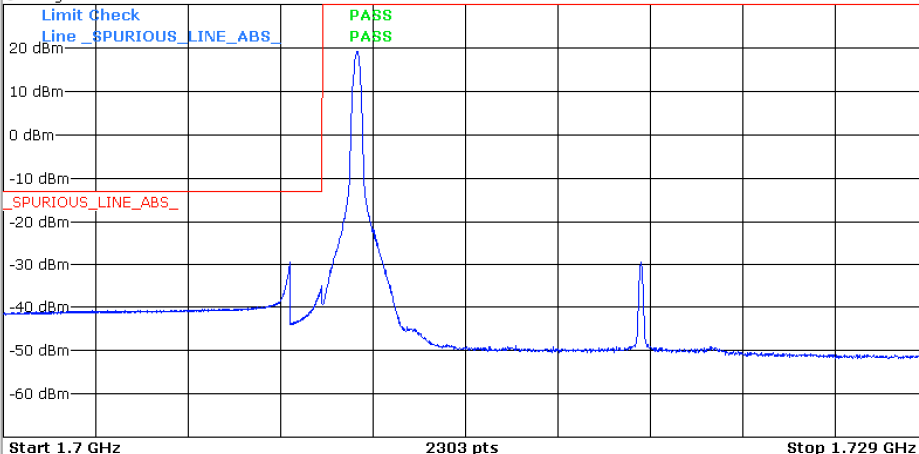
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## CA 2A-4A 100RB+100RB 16QAM 18700+20050 1RB#0+1RB#0 Band4

### 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

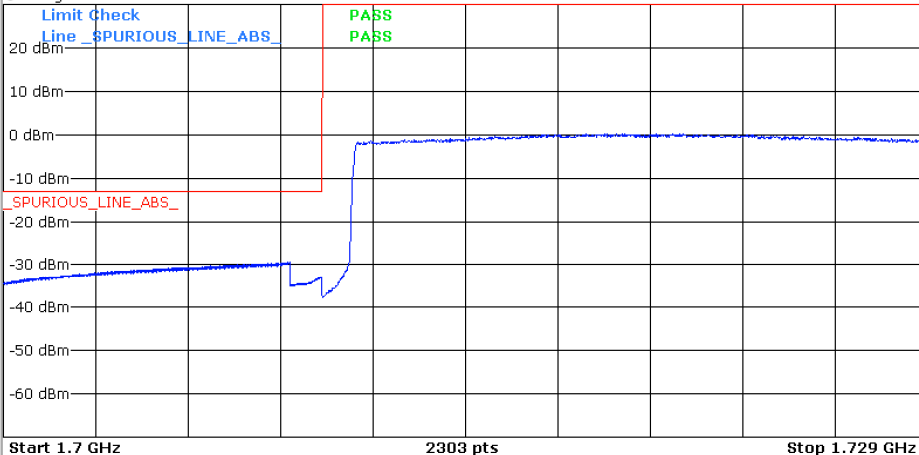
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## CA 2A-4A 100RB+100RB 16QAM 18700+20050 100RB#0+100RB#0 Band4

### 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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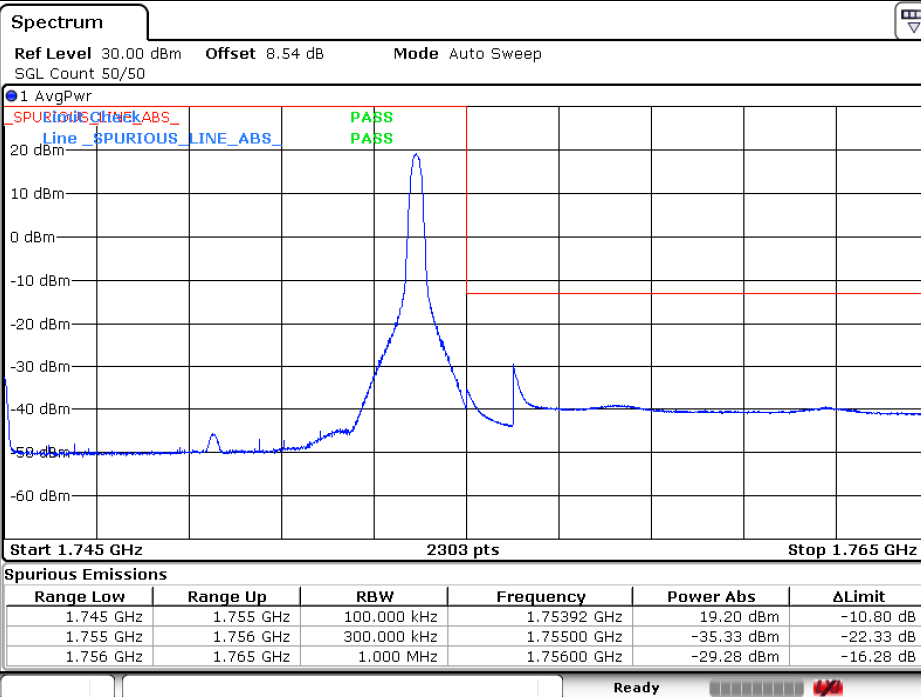
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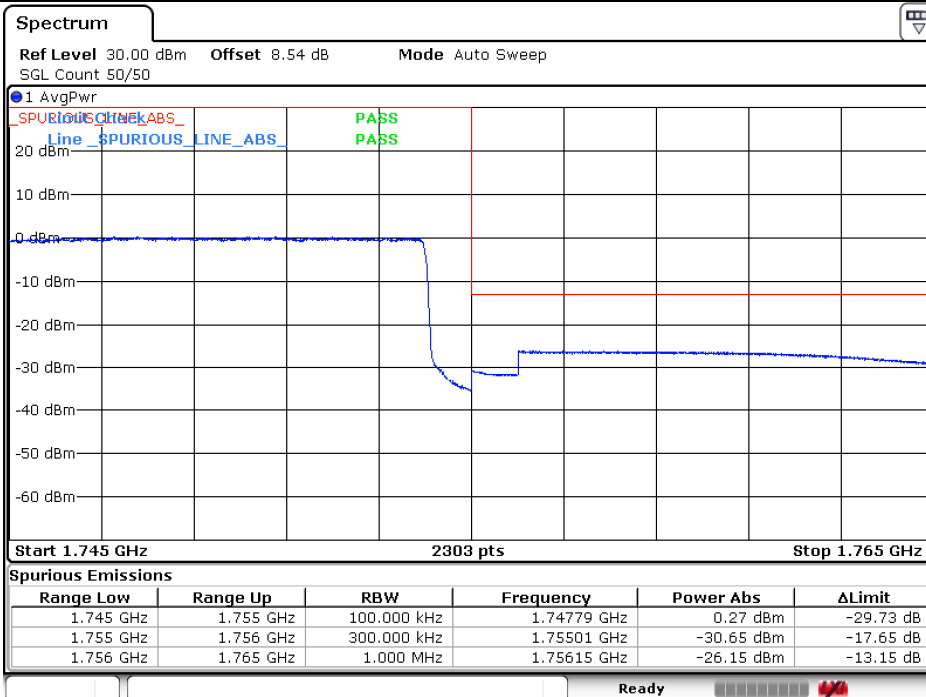


## CA 2A-4A 100RB+100RB 16QAM 19100+20300 1RB#99+1RB#99 Band4



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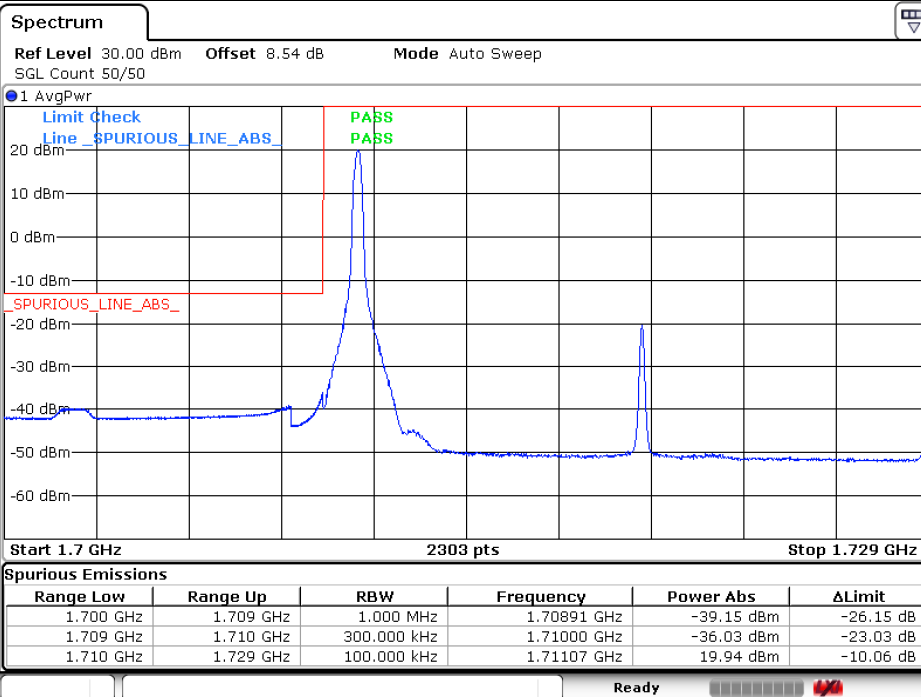
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Date: 19.AUG.2020 17:29:35

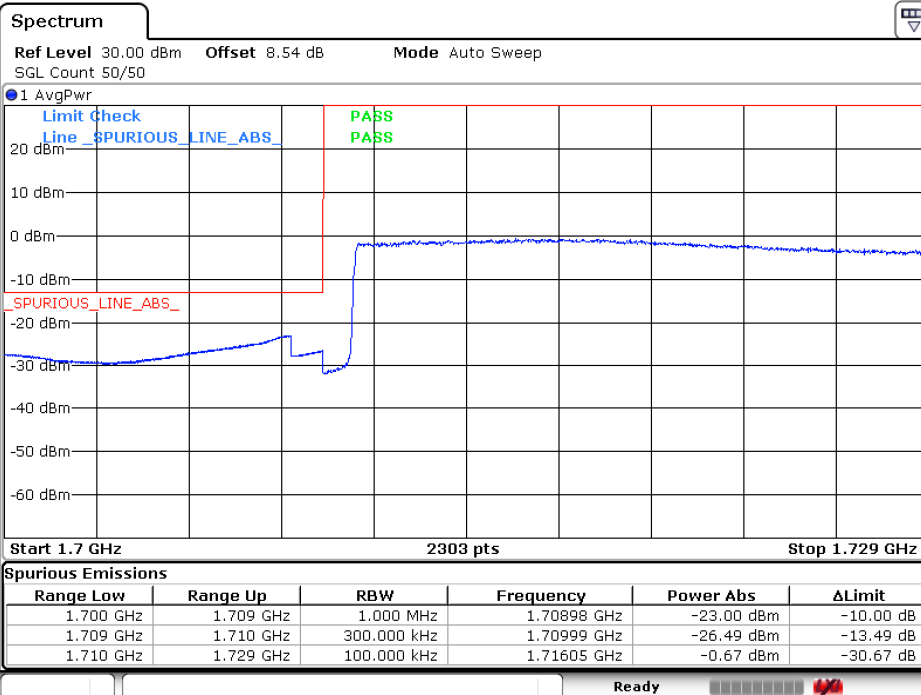


## CA 2A-4A 100RB+100RB 64QAM 18700+20050 1RB#0+1RB#0 Band4



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

## CA 2A-4A 100RB+100RB 64QAM 18700+20050 100RB#0+100RB#0 Band4



Date: 23.AUG.2020 21:05:05



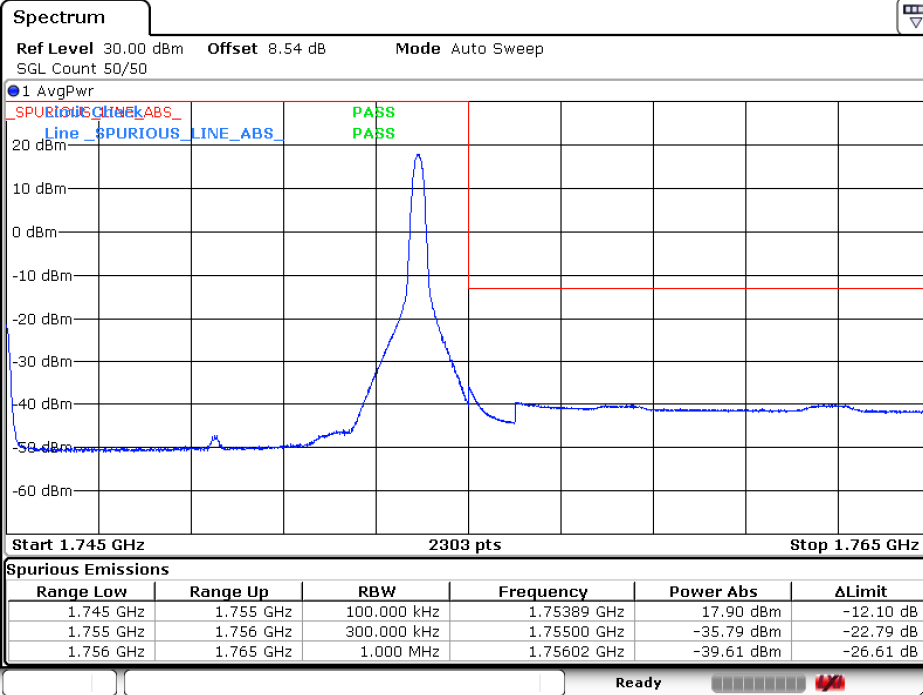
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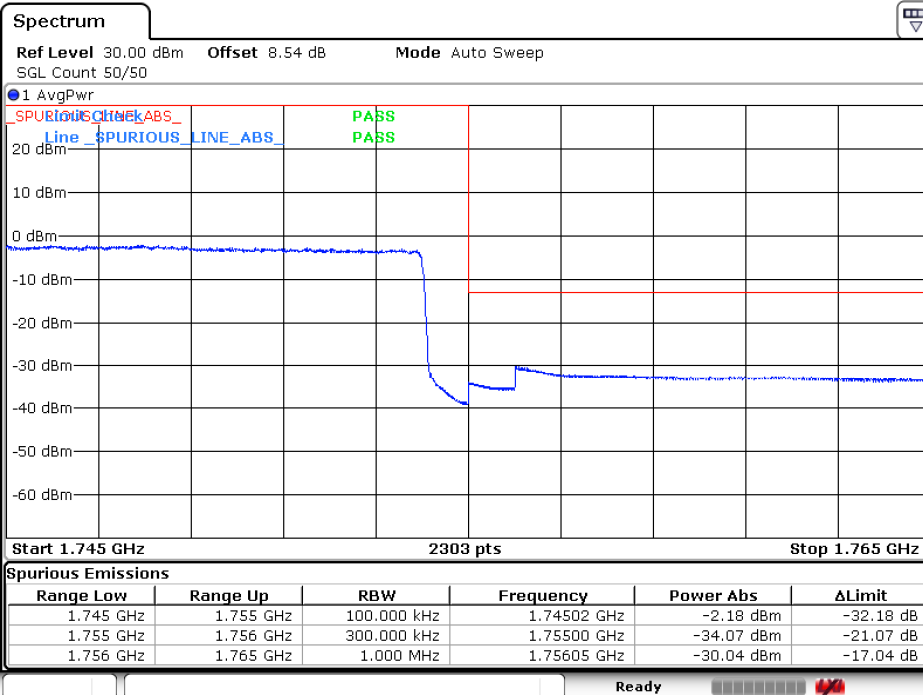
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## CA 2A-4A 100RB+100RB 64QAM 19100+20300 1RB#99+1RB#99 Band4



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



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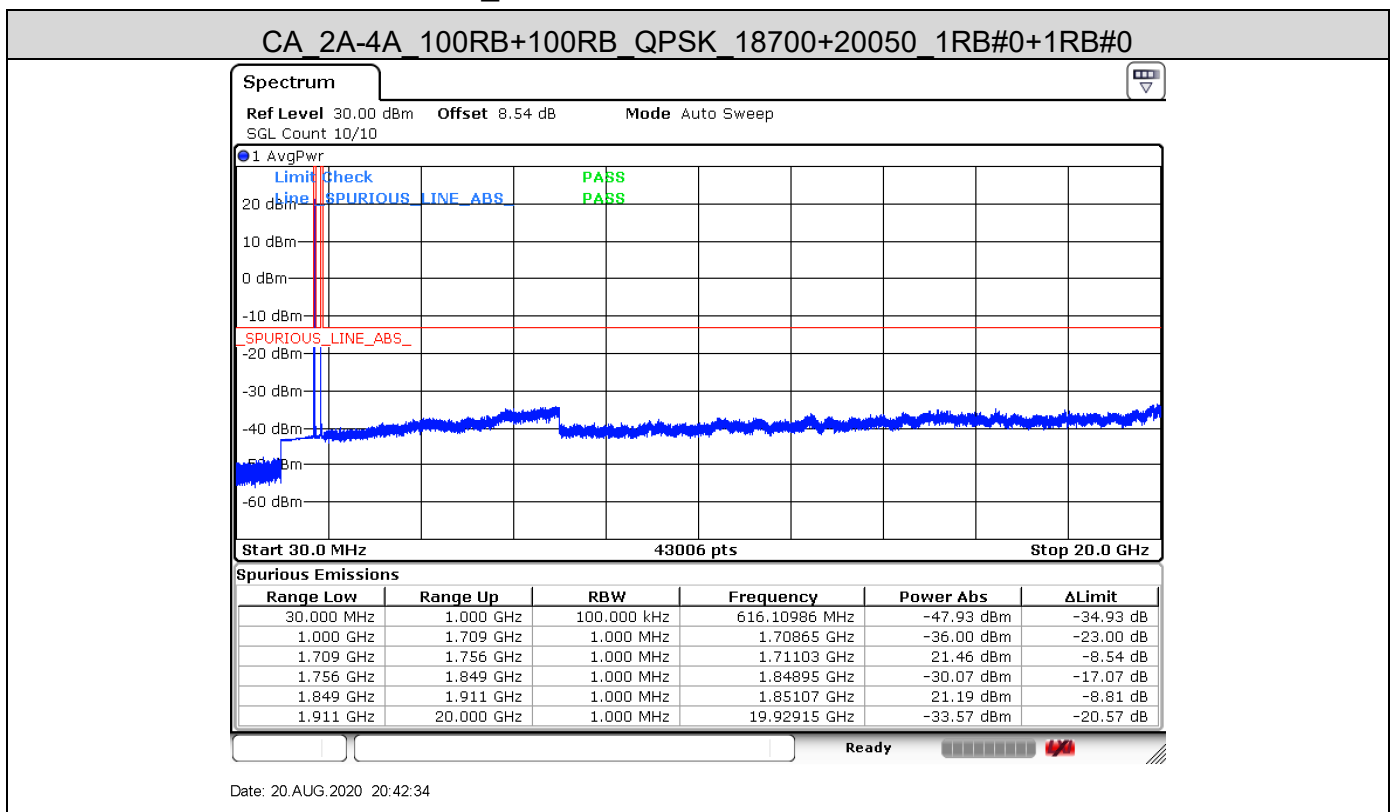
### 3 Spurious Emission at Antenna Terminal

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  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

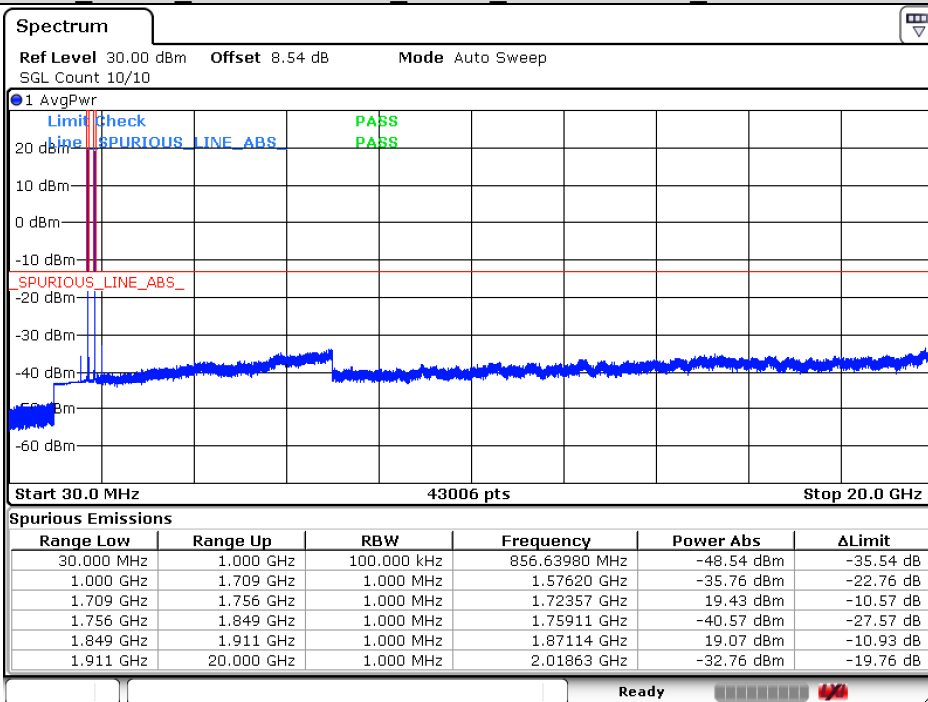
#### 3.1 For LTE

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





## CA 2A-4A 100RB+100RB QPSK 18900+20175 1RB#0+1RB#0



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

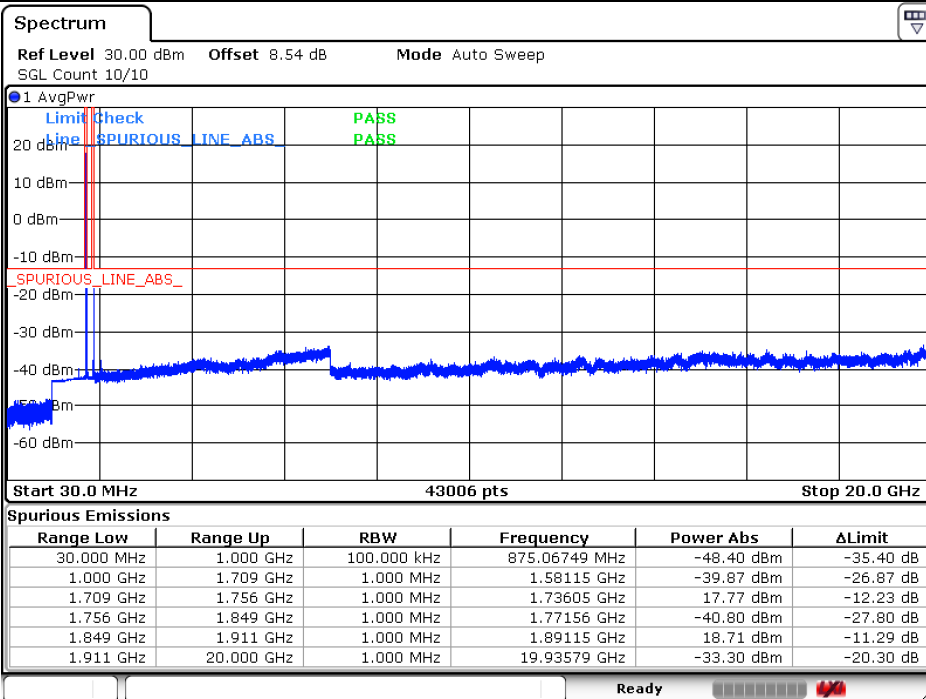
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## CA 2A-4A 100RB+100RB QPSK 19100+20300 1RB#0+1RB#0



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

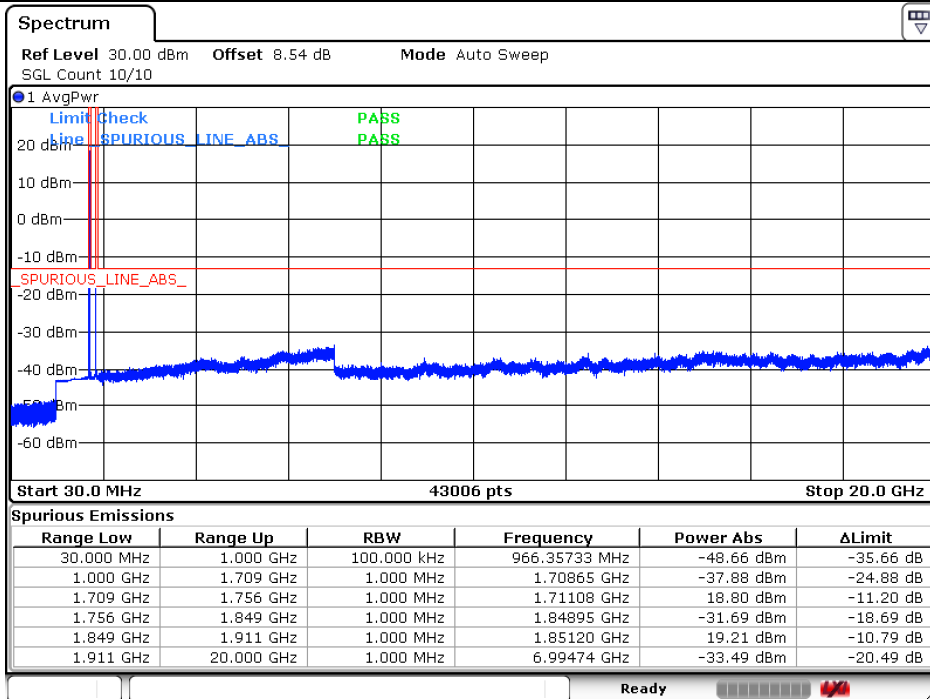
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Date: 20.AUG.2020 20:52:11



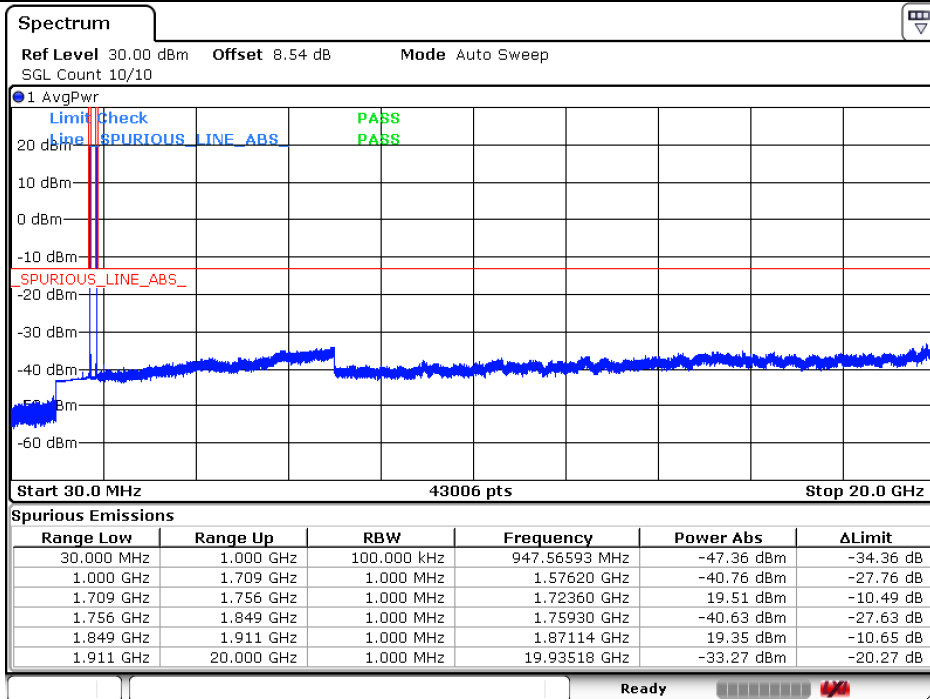
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## CA\_2A-4A\_100RB+100RB\_16QAM\_18900+20175\_1RB#0+1RB#0



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

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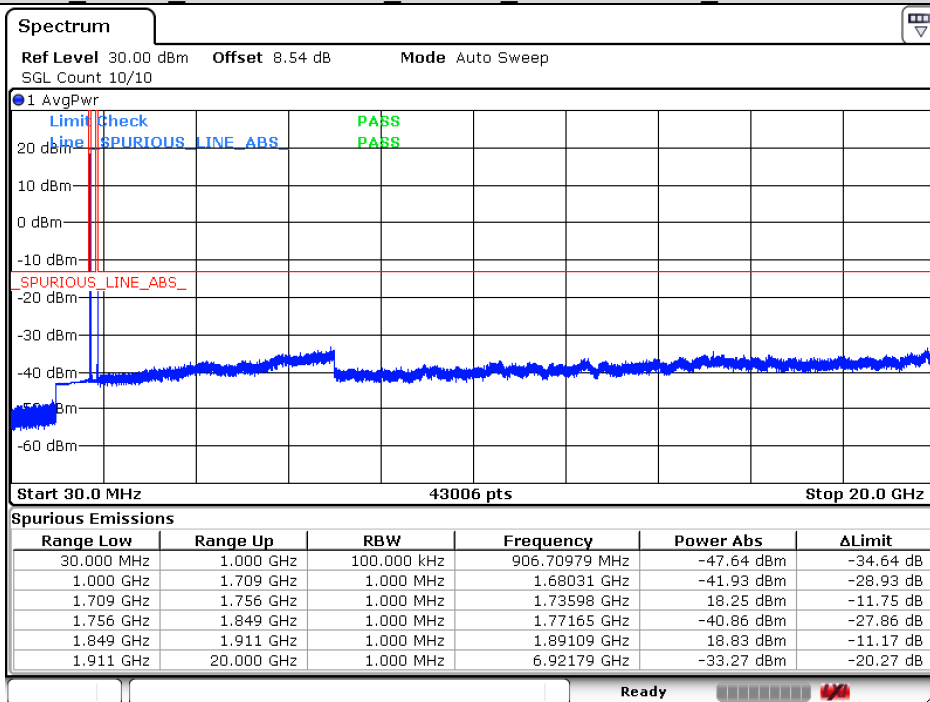
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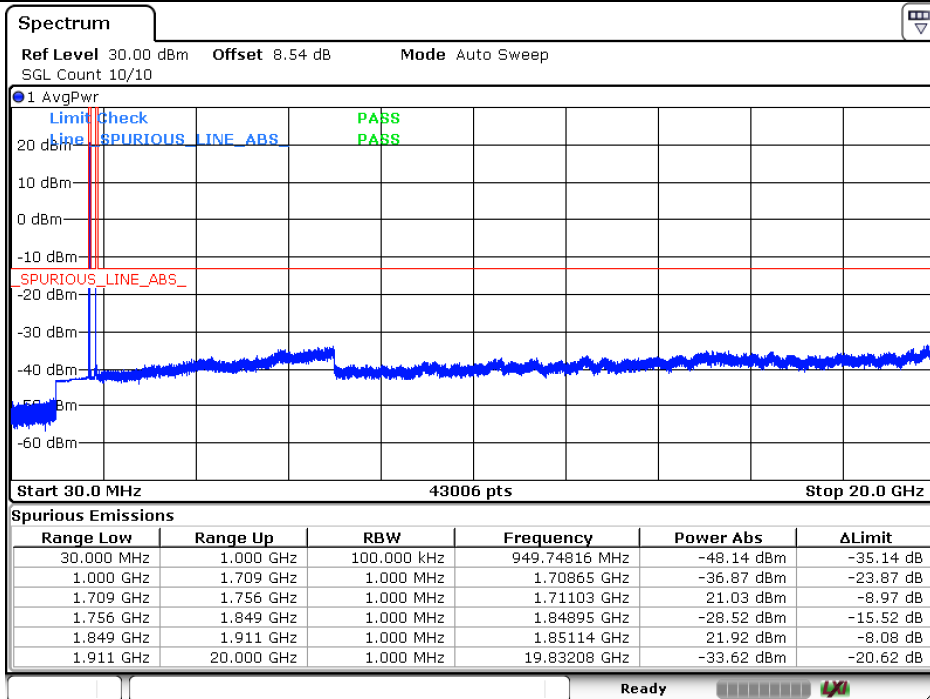
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Date: 20.AUG.2020 21:07:16



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



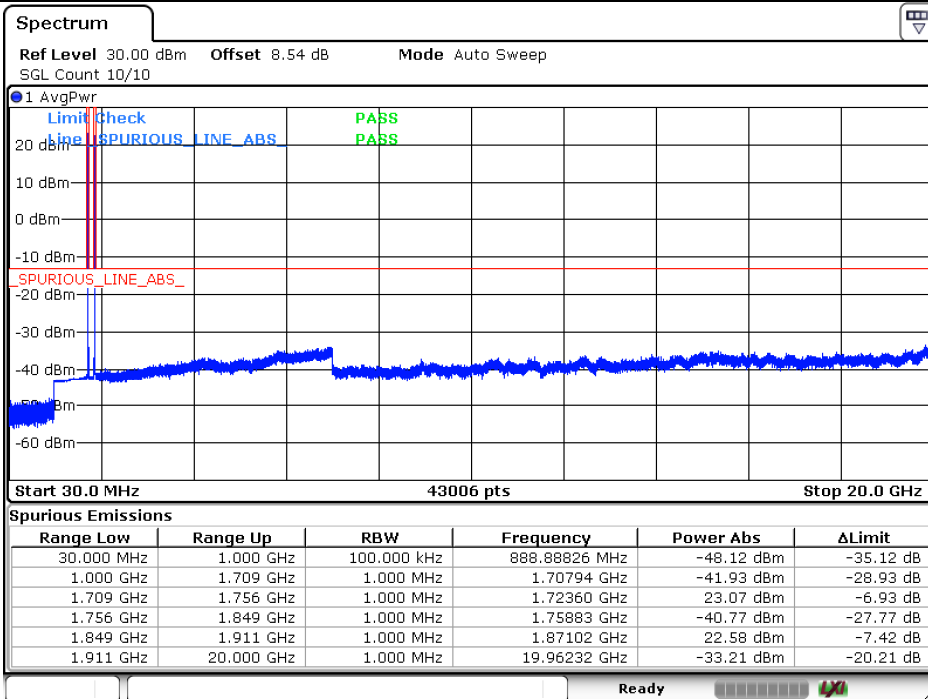
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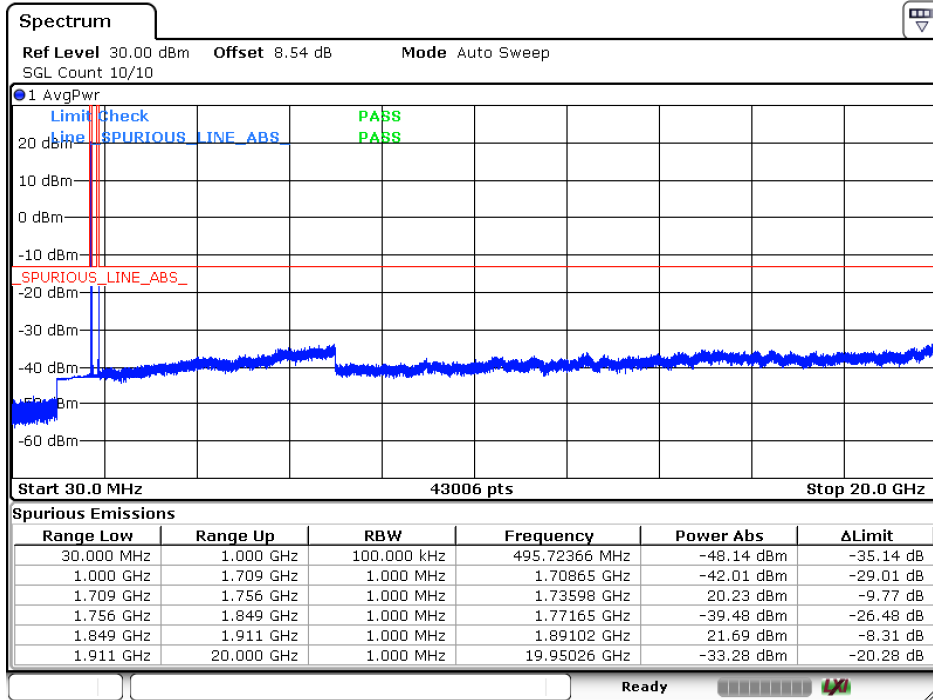
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## CA 2A-4A 100RB+100RB 64QAM 19100+20300 1RB#0+1RB#0



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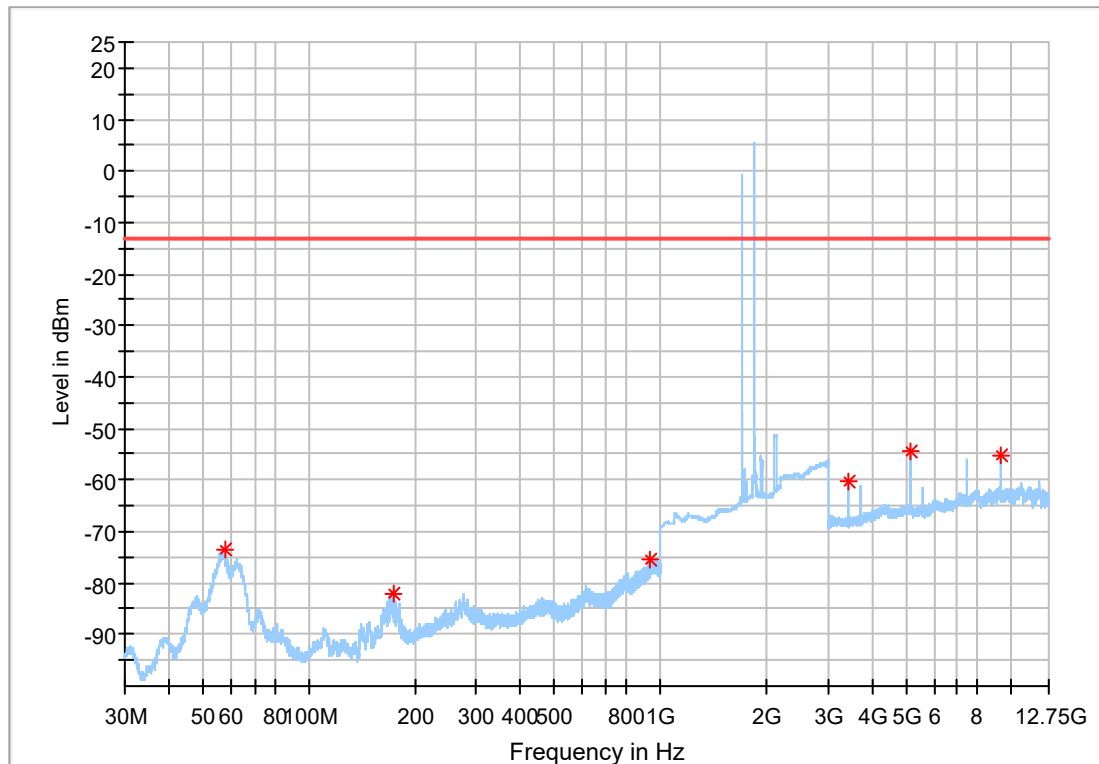


## 4 Field Strength of Spurious Radiation

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

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

Full Spectrum



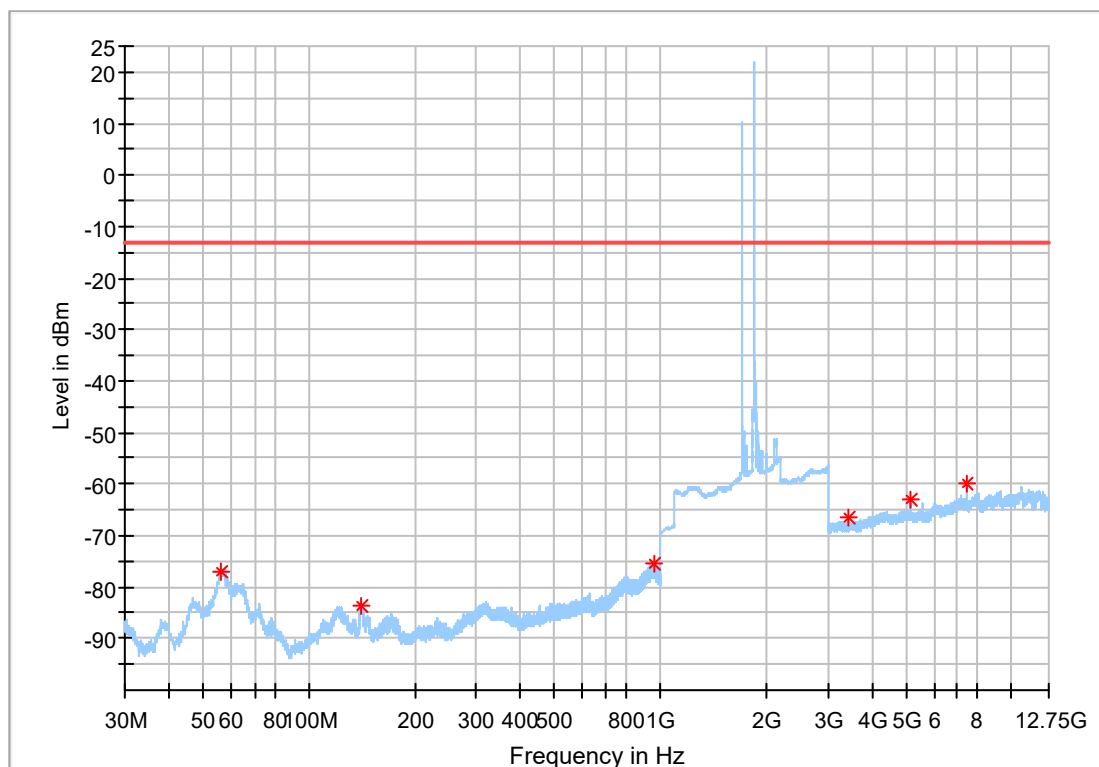
### Critical\_Freqs

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	---	---	200.0	H	1.0	-96.1
174.600000	-81.92	-13.00	68.92	---	---	200.0	H	31.0	-107.2
939.637500	-75.42	-13.00	62.42	---	---	200.0	H	199.0	-92.3
3421.850000	-60.15	-13.00	47.15	---	---	200.0	H	321.0	-105.7
5133.300000	-54.33	-13.00	41.33	---	---	200.0	H	359.0	-101.8
9255.275000	-55.18	-13.00	42.18	---	---	200.0	H	35.0	-97.2



## 4.1.2. Test Channel = LCH\_Vertical

Full Spectrum



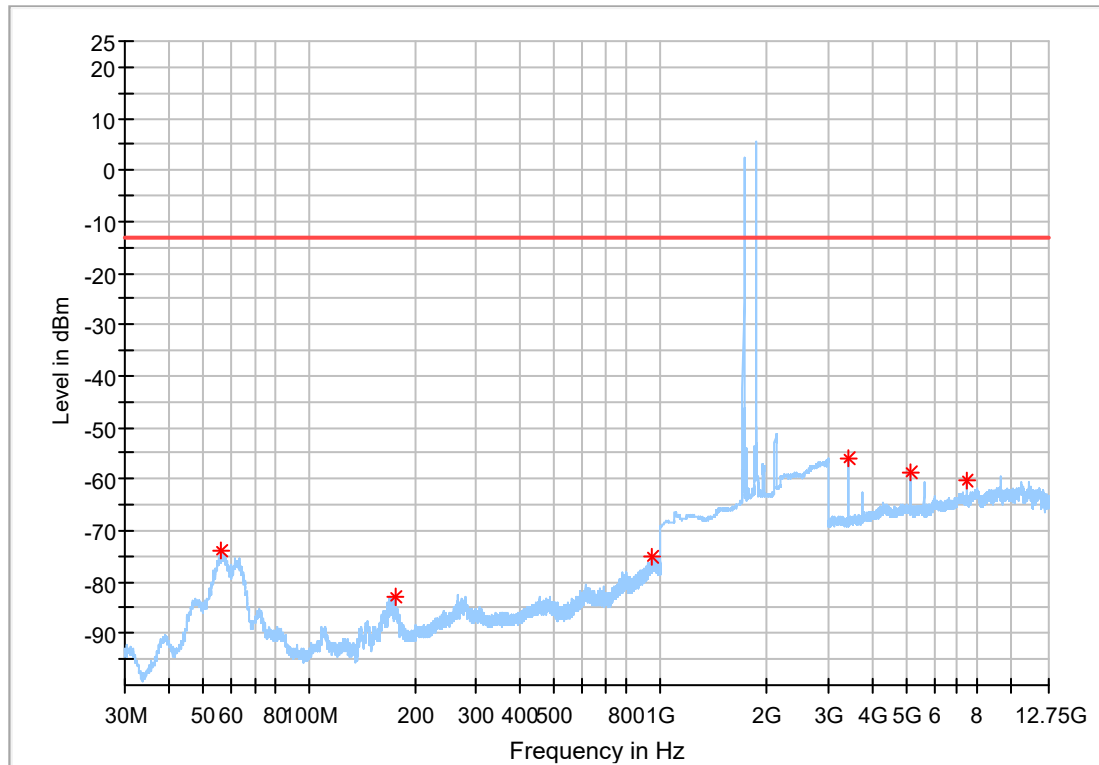
## Critical\_Freqs

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	---	---	200.0	V	21.0	-101.4
140.500000	-83.49	-13.00	70.49	---	---	200.0	V	127.0	-109.1
957.329167	-75.36	-13.00	62.36	---	---	200.0	V	208.0	-92.3
3421.850000	-66.52	-13.00	53.52	---	---	200.0	V	345.0	-105.5
5132.975000	-63.19	-13.00	50.19	---	---	200.0	V	359.0	-101.8
7404.075000	-59.79	-13.00	46.79	---	---	200.0	V	345.0	-99.6



#### 4.1.3. Test Channel = MCH\_Horizontal

Full Spectrum



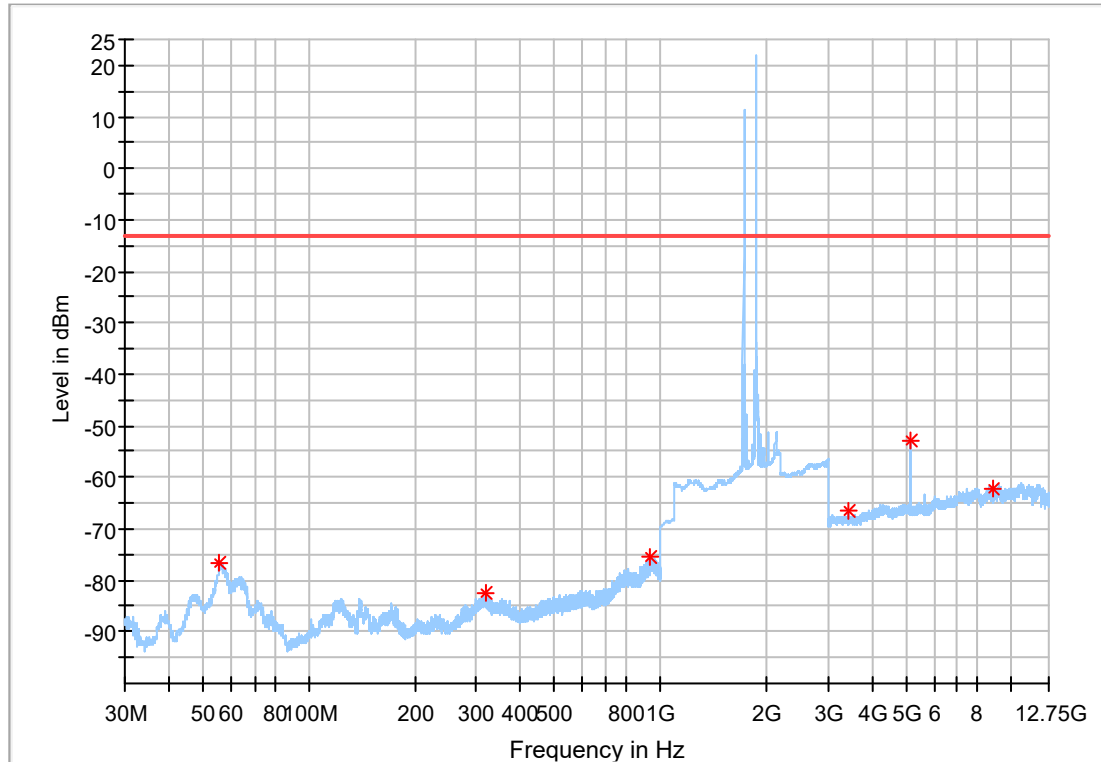
#### Critical\_Freqs

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	---	---	200.0	H	1.0	-96.6
176.800000	-82.84	-13.00	69.84	---	---	200.0	H	223.0	-107.2
949.950000	-75.13	-13.00	62.13	---	---	200.0	H	147.0	-91.9
3447.200000	-56.13	-13.00	43.13	---	---	200.0	H	44.0	-105.5
5170.675000	-58.76	-13.00	45.76	---	---	200.0	H	358.0	-101.8
7484.350000	-60.34	-13.00	47.34	---	---	200.0	H	282.0	-99.4



#### 4.1.4. Test Channel = MCH\_Vertical

Full Spectrum



#### Critical\_Freqs

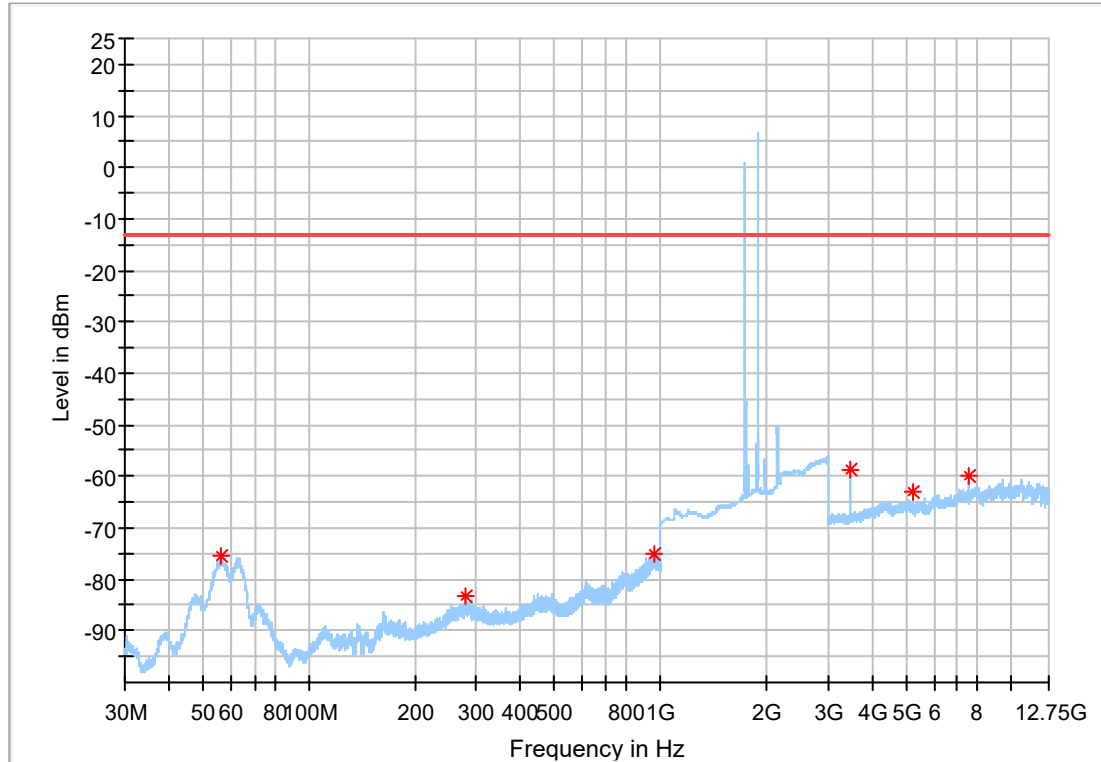
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.800000	-76.79	-13.00	63.79	---	---	200.0	V	1.0	-101.7
319.350000	-82.47	-13.00	69.47	---	---	200.0	V	234.0	-102.0
932.441667	-75.37	-13.00	62.37	---	---	200.0	V	59.0	-92.8
3447.200000	-66.36	-13.00	53.36	---	---	200.0	V	11.0	-105.4
5170.675000	-52.85	-13.00	39.85	---	---	200.0	V	1.0	-101.9
8883.475000	-62.36	-13.00	49.36	---	---	200.0	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	---	---	200.0	H	32.0	-96.9
279.550000	-83.44	-13.00	70.44	---	---	200.0	H	178.0	-102.8
957.512500	-75.06	-13.00	62.06	---	---	200.0	H	32.0	-91.8
3472.225000	-58.54	-13.00	45.54	---	---	200.0	H	319.0	-105.4
5207.725000	-63.20	-13.00	50.20	---	---	200.0	H	359.0	-101.9
7564.300000	-59.81	-13.00	46.81	---	---	200.0	H	282.0	-99.3



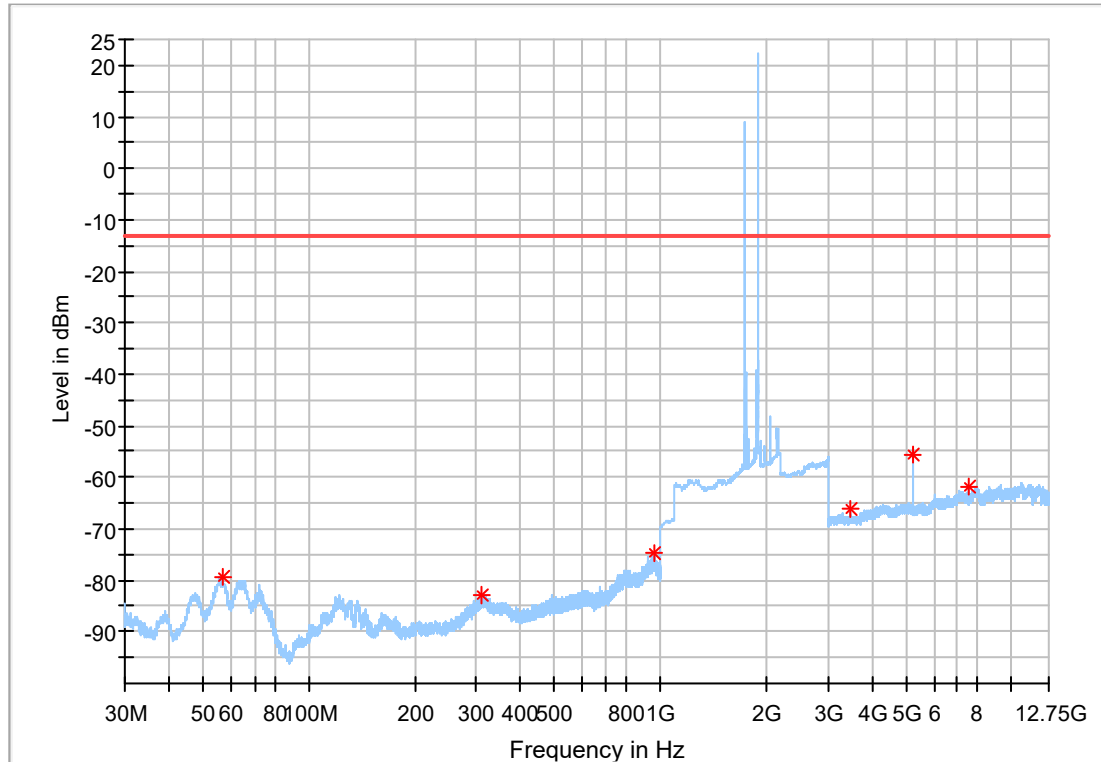
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#### 4.1.6. Test Channel = HCH\_Vertical

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	---	---	200.0	V	273.0	-101.3
309.450000	-82.93	-13.00	69.93	---	---	200.0	V	254.0	-102.1
956.275000	-74.81	-13.00	61.81	---	---	200.0	V	338.0	-92.3
3472.225000	-66.03	-13.00	53.03	---	---	200.0	V	345.0	-105.4
5208.375000	-55.60	-13.00	42.60	---	---	200.0	V	0.0	-101.9
7564.300000	-61.73	-13.00	48.73	---	---	200.0	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



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