Appendix B

E-UTRA BAND 7

CONTENT

1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
BAND7	5MHz	QPSK	20775	1RB#0	23.88	27.88	33.00	PASS
BAND7	5MHz	QPSK	20775	1RB#12	23.79	27.79	33.00	PASS
BAND7	5MHz	QPSK	20775	1RB#24	23.86	27.86	33.00	PASS
BAND7	5MHz	QPSK	20775	12RB#0	22.91	26.91	33.00	PASS
BAND7	5MHz	QPSK	20775	12RB#13	22.97	26.97	33.00	PASS
BAND7	5MHz	QPSK	20775	12RB#6	22.95	26.95	33.00	PASS
BAND7	5MHz	QPSK	20775	25RB#0	22.99	26.99	33.00	PASS
BAND7	5MHz	QPSK	21100	1RB#0	23.61	27.61	33.00	PASS
BAND7	5MHz	QPSK	21100	1RB#12	23.54	27.54	33.00	PASS
BAND7	5MHz	QPSK	21100	1RB#24	23.50	27.50	33.00	PASS
BAND7	5MHz	QPSK	21100	12RB#0	22.50	26.50	33.00	PASS
BAND7	5MHz	QPSK	21100	12RB#13	22.36	26.36	33.00	PASS
BAND7	5MHz	QPSK	21100	12RB#6	22.43	26.43	33.00	PASS
BAND7	5MHz	QPSK	21100	25RB#0	22.44	26.44	33.00	PASS
BAND7	5MHz	QPSK	21425	1RB#0	23.28	27.28	33.00	PASS
BAND7	5MHz	QPSK	21425	1RB#12	23.22	27.22	33.00	PASS
BAND7	5MHz	QPSK	21425	1RB#24	23.18	27.18	33.00	PASS
BAND7	5MHz	QPSK	21425	12RB#0	22.18	26.18	33.00	PASS
BAND7	5MHz	QPSK	21425	12RB#13	22.09	26.09	33.00	PASS
BAND7	5MHz	QPSK	21425	12RB#6	22.15	26.15	33.00	PASS
BAND7	5MHz	QPSK	21425	25RB#0	22.18	26.18	33.00	PASS
BAND7	5MHz	16QAM	20775	1RB#0	22.97	26.97	33.00	PASS
BAND7	5MHz	16QAM	20775	1RB#12	22.98	26.98	33.00	PASS
BAND7	5MHz	16QAM	20775	1RB#24	22.89	26.89	33.00	PASS
BAND7	5MHz	16QAM	20775	12RB#0	21.91	25.91	33.00	PASS
BAND7	5MHz	16QAM	20775	12RB#13	21.88	25.88	33.00	PASS
BAND7	5MHz	16QAM	20775	12RB#6	21.88	25.88	33.00	PASS
BAND7	5MHz	16QAM	20775	25RB#0	21.90	25.90	33.00	PASS
BAND7	5MHz	16QAM	21100	1RB#0	22.95	26.95	33.00	PASS
BAND7	5MHz	16QAM	21100	1RB#12	22.81	26.81	33.00	PASS
BAND7	5MHz	16QAM	21100	1RB#24	22.91	26.91	33.00	PASS
BAND7	5MHz	16QAM	21100	12RB#0	21.84	25.84	33.00	PASS
BAND7	5MHz	16QAM	21100	12RB#13	21.91	25.91	33.00	PASS
BAND7	5MHz	16QAM	21100	12RB#6	21.94	25.94	33.00	PASS

BAND7	5MHz	16QAM	21100	25RB#0	21.82	25.82	33.00	PASS
BAND7	5MHz	16QAM	21425	1RB#0	22.87	26.87	33.00	PASS
BAND7	5MHz	16QAM	21425	1RB#12	22.94	26.94	33.00	PASS
BAND7	5MHz	16QAM	21425	1RB#24	22.82	26.82	33.00	PASS
BAND7	5MHz	16QAM	21425	12RB#0	21.92	25.92	33.00	PASS
BAND7	5MHz	16QAM	21425	12RB#13	21.92	25.92	33.00	PASS
BAND7	5MHz	16QAM	21425	12RB#6	21.91	25.91	33.00	PASS
BAND7	5MHz	16QAM	21425	25RB#0	21.91	25.91	33.00	PASS
BAND7	5MHz	64QAM	20775	1RB#0	21.83	25.83	33.00	PASS
BAND7	5MHz	64QAM	20775	1RB#12	21.96	25.96	33.00	PASS
BAND7	5MHz	64QAM	20775	1RB#24	21.95	25.95	33.00	PASS
BAND7	5MHz	64QAM	20775	12RB#0	20.92	24.92	33.00	PASS
BAND7	5MHz	64QAM	20775	12RB#13	20.91	24.91	33.00	PASS
BAND7	5MHz	64QAM	20775	12RB#6	20.99	24.99	33.00	PASS
BAND7	5MHz	64QAM	20775	25RB#0	20.85	24.85	33.00	PASS
BAND7	5MHz	64QAM	21100	1RB#0	21.85	25.85	33.00	PASS
BAND7	5MHz	64QAM	21100	1RB#12	21.94	25.94	33.00	PASS
BAND7	5MHz	64QAM	21100	1RB#24	21.81	25.81	33.00	PASS
BAND7	5MHz	64QAM	21100	12RB#0	20.96	24.96	33.00	PASS
BAND7	5MHz	64QAM	21100	12RB#13	20.83	24.83	33.00	PASS
BAND7	5MHz	64QAM	21100	12RB#6	20.93	24.93	33.00	PASS
BAND7	5MHz	64QAM	21100	25RB#0	20.89	24.89	33.00	PASS
BAND7	5MHz	64QAM	21425	1RB#0	21.91	25.91	33.00	PASS
BAND7	5MHz	64QAM	21425	1RB#12	21.94	25.94	33.00	PASS
BAND7	5MHz	64QAM	21425	1RB#24	21.97	25.97	33.00	PASS
BAND7	5MHz	64QAM	21425	12RB#0	20.91	24.91	33.00	PASS
BAND7	5MHz	64QAM	21425	12RB#13	20.96	24.96	33.00	PASS
BAND7	5MHz	64QAM	21425	12RB#6	20.90	24.90	33.00	PASS
BAND7	5MHz	64QAM	21425	25RB#0	20.95	24.95	33.00	PASS
BAND7	10MHz	QPSK	20800	1RB#0	23.87	27.87	33.00	PASS
BAND7	10MHz	QPSK	20800	1RB#24	23.56	27.56	33.00	PASS
BAND7	10MHz	QPSK	20800	1RB#49	23.84	27.84	33.00	PASS
BAND7	10MHz	QPSK	20800	25RB#0	22.88	26.88	33.00	PASS
BAND7	10MHz	QPSK	20800	25RB#12	22.85	26.85	33.00	PASS
BAND7	10MHz	QPSK	20800	25RB#25	22.79	26.79	33.00	PASS
BAND7	10MHz	QPSK	20800	50RB#0	22.56	26.56	33.00	PASS
BAND7	10MHz	QPSK	21100	1RB#0	23.65	27.65	33.00	PASS
BAND7	10MHz	QPSK	21100	1RB#24	23.57	27.57	33.00	PASS
BAND7	10MHz	QPSK	21100	1RB#49	23.43	27.43	33.00	PASS
BAND7	10MHz	QPSK	21100	25RB#0	22.64	26.64	33.00	PASS
BAND7	10MHz	QPSK	21100	25RB#12	22.57	26.57	33.00	PASS

BAND7	10MHz	QPSK	21100	25RB#25	22.50	26.50	33.00	PASS
BAND7	10MHz	QPSK	21100	50RB#0	22.57	26.57	33.00	PASS
BAND7	10MHz	QPSK	21400	1RB#0	23.38	27.38	33.00	PASS
BAND7	10MHz	QPSK	21400	1RB#24	23.27	27.27	33.00	PASS
BAND7	10MHz	QPSK	21400	1RB#49	23.21	27.21	33.00	PASS
BAND7	10MHz	QPSK	21400	25RB#0	22.37	26.37	33.00	PASS
BAND7	10MHz	QPSK	21400	25RB#12	22.33	26.33	33.00	PASS
BAND7	10MHz	QPSK	21400	25RB#25	22.30	26.30	33.00	PASS
BAND7	10MHz	QPSK	21400	50RB#0	22.34	26.34	33.00	PASS
BAND7	10MHz	16QAM	20800	1RB#0	22.86	26.86	33.00	PASS
BAND7	10MHz	16QAM	20800	1RB#24	22.86	26.86	33.00	PASS
BAND7	10MHz	16QAM	20800	1RB#49	22.97	26.97	33.00	PASS
BAND7	10MHz	16QAM	20800	25RB#0	21.82	25.82	33.00	PASS
BAND7	10MHz	16QAM	20800	25RB#12	21.93	25.93	33.00	PASS
BAND7	10MHz	16QAM	20800	25RB#25	21.86	25.86	33.00	PASS
BAND7	10MHz	16QAM	20800	50RB#0	21.88	25.88	33.00	PASS
BAND7	10MHz	16QAM	21100	1RB#0	22.81	26.81	33.00	PASS
BAND7	10MHz	16QAM	21100	1RB#24	22.83	26.83	33.00	PASS
BAND7	10MHz	16QAM	21100	1RB#49	22.96	26.96	33.00	PASS
BAND7	10MHz	16QAM	21100	25RB#0	21.87	25.87	33.00	PASS
BAND7	10MHz	16QAM	21100	25RB#12	21.81	25.81	33.00	PASS
BAND7	10MHz	16QAM	21100	25RB#25	21.88	25.88	33.00	PASS
BAND7	10MHz	16QAM	21100	50RB#0	21.84	25.84	33.00	PASS
BAND7	10MHz	16QAM	21400	1RB#0	22.84	26.84	33.00	PASS
BAND7	10MHz	16QAM	21400	1RB#24	22.87	26.87	33.00	PASS
BAND7	10MHz	16QAM	21400	1RB#49	22.89	26.89	33.00	PASS
BAND7	10MHz	16QAM	21400	25RB#0	21.99	25.99	33.00	PASS
BAND7	10MHz	16QAM	21400	25RB#12	21.89	25.89	33.00	PASS
BAND7	10MHz	16QAM	21400	25RB#25	21.92	25.92	33.00	PASS
BAND7	10MHz	16QAM	21400	50RB#0	21.92	25.92	33.00	PASS
BAND7	10MHz	64QAM	20800	1RB#0	21.97	25.97	33.00	PASS
BAND7	10MHz	64QAM	20800	1RB#24	21.87	25.87	33.00	PASS
BAND7	10MHz	64QAM	20800	1RB#49	21.88	25.88	33.00	PASS
BAND7	10MHz	64QAM	20800	25RB#0	20.97	24.97	33.00	PASS
BAND7	10MHz	64QAM	20800	25RB#12	20.81	24.81	33.00	PASS
BAND7	10MHz	64QAM	20800	25RB#25	20.96	24.96	33.00	PASS
BAND7	10MHz	64QAM	20800	50RB#0	20.80	24.80	33.00	PASS
BAND7	10MHz	64QAM	21100	1RB#0	21.97	25.97	33.00	PASS
BAND7	10MHz	64QAM	21100	1RB#24	21.98	25.98	33.00	PASS
BAND7	10MHz	64QAM	21100	1RB#49	21.90	25.90	33.00	PASS
BAND7	10MHz	64QAM	21100	25RB#0	20.98	24.98	33.00	PASS

BAND7	10MHz	64QAM	21100	25RB#12	20.94	24.94	33.00	PASS
BAND7	10MHz	64QAM	21100	25RB#25	20.90	24.90	33.00	PASS
BAND7	10MHz	64QAM	21100	50RB#0	20.95	24.95	33.00	PASS
BAND7	10MHz	64QAM	21400	1RB#0	21.84	25.84	33.00	PASS
BAND7	10MHz	64QAM	21400	1RB#24	21.97	25.97	33.00	PASS
BAND7	10MHz	64QAM	21400	1RB#49	21.84	25.84	33.00	PASS
BAND7	10MHz	64QAM	21400	25RB#0	20.89	24.89	33.00	PASS
BAND7	10MHz	64QAM	21400	25RB#12	20.86	24.86	33.00	PASS
BAND7	10MHz	64QAM	21400	25RB#25	20.99	24.99	33.00	PASS
BAND7	10MHz	64QAM	21400	50RB#0	20.80	24.80	33.00	PASS
BAND7	15MHz	QPSK	20825	1RB#0	23.86	27.86	33.00	PASS
BAND7	15MHz	QPSK	20825	1RB#38	23.90	27.90	33.00	PASS
BAND7	15MHz	QPSK	20825	1RB#74	23.75	27.75	33.00	PASS
BAND7	15MHz	QPSK	20825	36RB#0	22.89	26.89	33.00	PASS
BAND7	15MHz	QPSK	20825	36RB#18	22.85	26.85	33.00	PASS
BAND7	15MHz	QPSK	20825	36RB#39	22.93	26.93	33.00	PASS
BAND7	15MHz	QPSK	20825	75RB#0	22.91	26.91	33.00	PASS
BAND7	15MHz	QPSK	21100	1RB#0	23.61	27.61	33.00	PASS
BAND7	15MHz	QPSK	21100	1RB#38	23.53	27.53	33.00	PASS
BAND7	15MHz	QPSK	21100	1RB#74	23.40	27.40	33.00	PASS
BAND7	15MHz	QPSK	21100	36RB#0	22.65	26.65	33.00	PASS
BAND7	15MHz	QPSK	21100	36RB#18	22.58	26.58	33.00	PASS
BAND7	15MHz	QPSK	21100	36RB#39	22.39	26.39	33.00	PASS
BAND7	15MHz	QPSK	21100	75RB#0	22.57	26.57	33.00	PASS
BAND7	15MHz	QPSK	21375	1RB#0	23.47	27.47	33.00	PASS
BAND7	15MHz	QPSK	21375	1RB#38	23.28	27.28	33.00	PASS
BAND7	15MHz	QPSK	21375	1RB#74	23.15	27.15	33.00	PASS
BAND7	15MHz	QPSK	21375	36RB#0	22.40	26.40	33.00	PASS
BAND7	15MHz	QPSK	21375	36RB#18	22.36	26.36	33.00	PASS
BAND7	15MHz	QPSK	21375	36RB#39	22.30	26.30	33.00	PASS
BAND7	15MHz	QPSK	21375	75RB#0	22.36	26.36	33.00	PASS
BAND7	15MHz	16QAM	20825	1RB#0	22.99	26.99	33.00	PASS
BAND7	15MHz	16QAM	20825	1RB#38	22.91	26.91	33.00	PASS
BAND7	15MHz	16QAM	20825	1RB#74	22.88	26.88	33.00	PASS
BAND7	15MHz	16QAM	20825	36RB#0	21.96	25.96	33.00	PASS
BAND7	15MHz	16QAM	20825	36RB#18	21.85	25.85	33.00	PASS
BAND7	15MHz	16QAM	20825	36RB#39	21.83	25.83	33.00	PASS
BAND7	15MHz	16QAM	20825	75RB#0	21.93	25.93	33.00	PASS
BAND7	15MHz	16QAM	21100	1RB#0	22.80	26.80	33.00	PASS
BAND7	15MHz	16QAM	21100	1RB#38	22.93	26.93	33.00	PASS
BAND7	15MHz	16QAM	21100	1RB#74	22.99	26.99	33.00	PASS

BAND7	15MHz	16QAM	21100	36RB#0	21.99	25.99	33.00	PASS
BAND7	15MHz	16QAM	21100	36RB#18	21.83	25.83	33.00	PASS
BAND7	15MHz	16QAM	21100	36RB#39	21.89	25.89	33.00	PASS
BAND7	15MHz	16QAM	21100	75RB#0	21.88	25.88	33.00	PASS
BAND7	15MHz	16QAM	21375	1RB#0	22.98	26.98	33.00	PASS
BAND7	15MHz	16QAM	21375	1RB#38	22.96	26.96	33.00	PASS
BAND7	15MHz	16QAM	21375	1RB#74	22.84	26.84	33.00	PASS
BAND7	15MHz	16QAM	21375	36RB#0	21.91	25.91	33.00	PASS
BAND7	15MHz	16QAM	21375	36RB#18	21.96	25.96	33.00	PASS
BAND7	15MHz	16QAM	21375	36RB#39	21.92	25.92	33.00	PASS
BAND7	15MHz	16QAM	21375	75RB#0	21.94	25.94	33.00	PASS
BAND7	15MHz	64QAM	20825	1RB#0	21.88	25.88	33.00	PASS
BAND7	15MHz	64QAM	20825	1RB#38	21.91	25.91	33.00	PASS
BAND7	15MHz	64QAM	20825	1RB#74	21.84	25.84	33.00	PASS
BAND7	15MHz	64QAM	20825	36RB#0	20.96	24.96	33.00	PASS
BAND7	15MHz	64QAM	20825	36RB#18	20.92	24.92	33.00	PASS
BAND7	15MHz	64QAM	20825	36RB#39	20.82	24.82	33.00	PASS
BAND7	15MHz	64QAM	20825	75RB#0	20.95	24.95	33.00	PASS
BAND7	15MHz	64QAM	21100	1RB#0	21.94	25.94	33.00	PASS
BAND7	15MHz	64QAM	21100	1RB#38	21.82	25.82	33.00	PASS
BAND7	15MHz	64QAM	21100	1RB#74	21.92	25.92	33.00	PASS
BAND7	15MHz	64QAM	21100	36RB#0	20.89	24.89	33.00	PASS
BAND7	15MHz	64QAM	21100	36RB#18	20.93	24.93	33.00	PASS
BAND7	15MHz	64QAM	21100	36RB#39	20.87	24.87	33.00	PASS
BAND7	15MHz	64QAM	21100	75RB#0	20.80	24.80	33.00	PASS
BAND7	15MHz	64QAM	21375	1RB#0	21.92	25.92	33.00	PASS
BAND7	15MHz	64QAM	21375	1RB#38	21.95	25.95	33.00	PASS
BAND7	15MHz	64QAM	21375	1RB#74	21.89	25.89	33.00	PASS
BAND7	15MHz	64QAM	21375	36RB#0	20.98	24.98	33.00	PASS
BAND7	15MHz	64QAM	21375	36RB#18	20.84	24.84	33.00	PASS
BAND7	15MHz	64QAM	21375	36RB#39	20.99	24.99	33.00	PASS
BAND7	15MHz	64QAM	21375	75RB#0	20.91	24.91	33.00	PASS
BAND7	20MHz	QPSK	20850	1RB#0	23.79	27.79	33.00	PASS
BAND7	20MHz	QPSK	20850	1RB#49	23.81	27.81	33.00	PASS
BAND7	20MHz	QPSK	20850	1RB#99	23.63	27.63	33.00	PASS
BAND7	20MHz	QPSK	20850	50RB#0	22.89	26.89	33.00	PASS
BAND7	20MHz	QPSK	20850	50RB#25	22.96	26.96	33.00	PASS
BAND7	20MHz	QPSK	20850	50RB#50	22.83	26.83	33.00	PASS
BAND7	20MHz	QPSK	20850	100RB#0	22.78	26.78	33.00	PASS
BAND7	20MHz	QPSK	21100	1RB#0	23.64	27.64	33.00	PASS
BAND7	20MHz	QPSK	21100	1RB#49	23.55	27.55	33.00	PASS

BAND7	20MHz	QPSK	21100	1RB#99	23.45	27.45	33.00	PASS
BAND7	20MHz	QPSK	21100	50RB#0	22.66	26.66	33.00	PASS
BAND7	20MHz	QPSK	21100	50RB#25	22.56	26.56	33.00	PASS
BAND7	20MHz	QPSK	21100	50RB#50	22.39	26.39	33.00	PASS
BAND7	20MHz	QPSK	21100	100RB#0	22.58	26.58	33.00	PASS
BAND7	20MHz	QPSK	21350	1RB#0	23.51	27.51	33.00	PASS
BAND7	20MHz	QPSK	21350	1RB#49	23.30	27.30	33.00	PASS
BAND7	20MHz	QPSK	21350	1RB#99	23.19	27.19	33.00	PASS
BAND7	20MHz	QPSK	21350	50RB#0	22.47	26.47	33.00	PASS
BAND7	20MHz	QPSK	21350	50RB#25	22.36	26.36	33.00	PASS
BAND7	20MHz	QPSK	21350	50RB#50	22.32	26.32	33.00	PASS
BAND7	20MHz	QPSK	21350	100RB#0	22.40	26.40	33.00	PASS
BAND7	20MHz	16QAM	20850	1RB#0	22.82	26.82	33.00	PASS
BAND7	20MHz	16QAM	20850	1RB#49	22.87	26.87	33.00	PASS
BAND7	20MHz	16QAM	20850	1RB#99	22.89	26.89	33.00	PASS
BAND7	20MHz	16QAM	20850	50RB#0	21.98	25.98	33.00	PASS
BAND7	20MHz	16QAM	20850	50RB#25	21.90	25.90	33.00	PASS
BAND7	20MHz	16QAM	20850	50RB#50	21.94	25.94	33.00	PASS
BAND7	20MHz	16QAM	20850	100RB#0	21.93	25.93	33.00	PASS
BAND7	20MHz	16QAM	21100	1RB#0	22.97	26.97	33.00	PASS
BAND7	20MHz	16QAM	21100	1RB#49	22.93	26.93	33.00	PASS
BAND7	20MHz	16QAM	21100	1RB#99	22.89	26.89	33.00	PASS
BAND7	20MHz	16QAM	21100	50RB#0	21.84	25.84	33.00	PASS
BAND7	20MHz	16QAM	21100	50RB#25	21.84	25.84	33.00	PASS
BAND7	20MHz	16QAM	21100	50RB#50	21.86	25.86	33.00	PASS
BAND7	20MHz	16QAM	21100	100RB#0	21.89	25.89	33.00	PASS
BAND7	20MHz	16QAM	21350	1RB#0	22.99	26.99	33.00	PASS
BAND7	20MHz	16QAM	21350	1RB#49	22.91	26.91	33.00	PASS
BAND7	20MHz	16QAM	21350	1RB#99	22.95	26.95	33.00	PASS
BAND7	20MHz	16QAM	21350	50RB#0	21.93	25.93	33.00	PASS
BAND7	20MHz	16QAM	21350	50RB#25	21.96	25.96	33.00	PASS
BAND7	20MHz	16QAM	21350	50RB#50	21.99	25.99	33.00	PASS
BAND7	20MHz	16QAM	21350	100RB#0	21.87	25.87	33.00	PASS
BAND7	20MHz	64QAM	20850	1RB#0	21.90	25.90	33.00	PASS
BAND7	20MHz	64QAM	20850	1RB#49	21.86	25.86	33.00	PASS
BAND7	20MHz	64QAM	20850	1RB#99	21.81	25.81	33.00	PASS
BAND7	20MHz	64QAM	20850	50RB#0	20.91	24.91	33.00	PASS
BAND7	20MHz	64QAM	20850	50RB#25	20.92	24.92	33.00	PASS
BAND7	20MHz	64QAM	20850	50RB#50	20.88	24.88	33.00	PASS
BAND7	20MHz	64QAM	20850	100RB#0	20.87	24.87	33.00	PASS
BAND7	20MHz	64QAM	21100	1RB#0	21.85	25.85	33.00	PASS

BAND7	20MHz	64QAM	21100	1RB#49	21.84	25.84	33.00	PASS
BAND7	20MHz	64QAM	21100	1RB#99	21.95	25.95	33.00	PASS
BAND7	20MHz	64QAM	21100	50RB#0	20.83	24.83	33.00	PASS
BAND7	20MHz	64QAM	21100	50RB#25	20.97	24.97	33.00	PASS
BAND7	20MHz	64QAM	21100	50RB#50	20.89	24.89	33.00	PASS
BAND7	20MHz	64QAM	21100	100RB#0	20.89	24.89	33.00	PASS
BAND7	20MHz	64QAM	21350	1RB#0	21.83	25.83	33.00	PASS
BAND7	20MHz	64QAM	21350	1RB#49	21.94	25.94	33.00	PASS
BAND7	20MHz	64QAM	21350	1RB#99	21.87	25.87	33.00	PASS
BAND7	20MHz	64QAM	21350	50RB#0	20.91	24.91	33.00	PASS
BAND7	20MHz	64QAM	21350	50RB#25	20.93	24.93	33.00	PASS
BAND7	20MHz	64QAM	21350	50RB#50	20.96	24.96	33.00	PASS
BAND7	20MHz	64QAM	21350	100RB#0	20.83	24.83	33.00	PASS

Note:

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

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

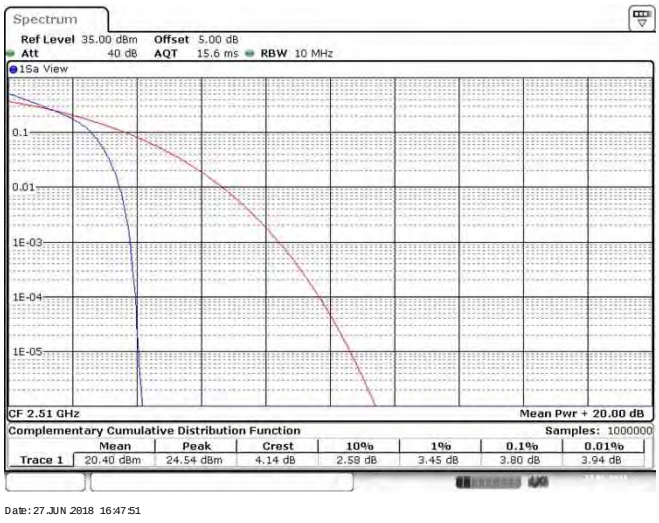
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

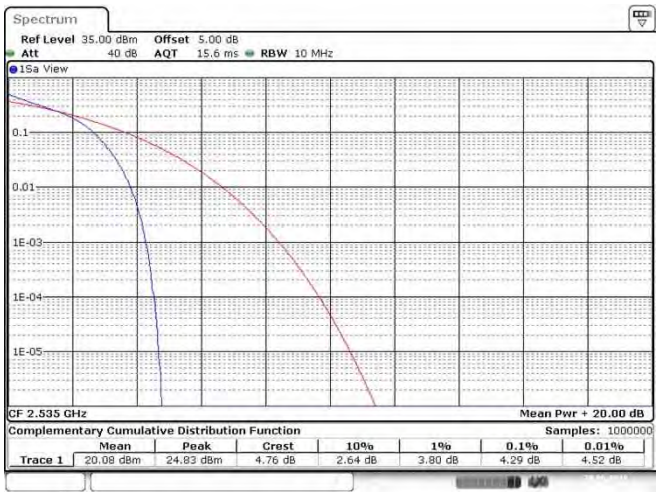
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND 7	20MHz	QPSK	20850	100RB#0	3.80	13	PASS
			21100	100RB#0	4.29	13	PASS
			21350	100RB#0	4.14	13	PASS
		16QAM	20850	100RB#0	5.39	13	PASS
			21100	100RB#0	5.88	13	PASS
			21350	100RB#0	5.77	13	PASS
		64QAM	20850	100RB#0	5.80	13	PASS
			21100	100RB#0	6.23	13	PASS
			21350	100RB#0	6.12	13	PASS

2.2. Test Plots

BAND 7_20MHz_QPSK_20850_100RB#0

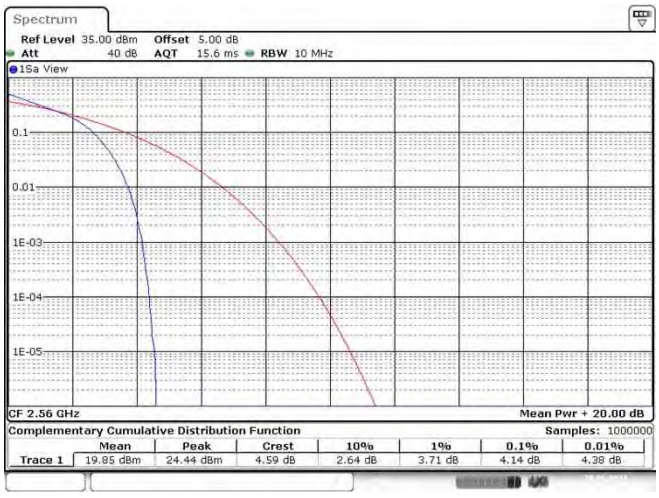


BAND 7_20MHz_QPSK_21100_100RB#0



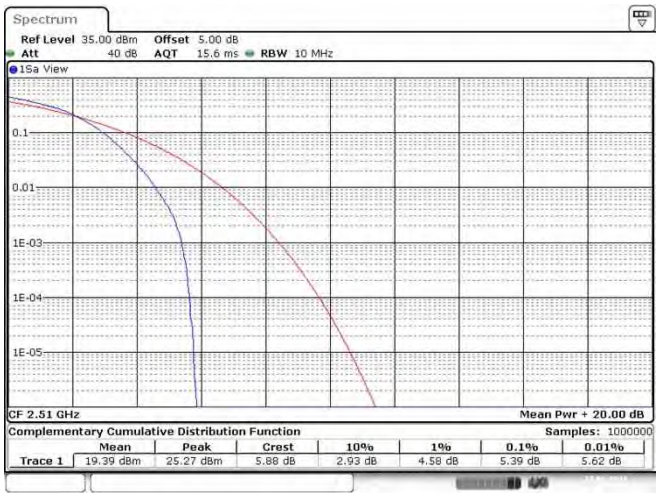
Date: 28.JUN.2018 02:29:55

BAND 7_20MHz_QPSK_21350_100RB#0



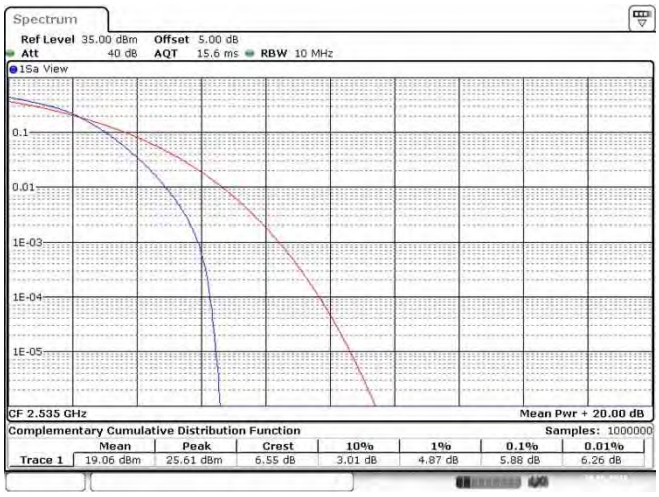
Date: 28.JUN.2018 02:30:26

BAND 7_20MHz_16QAM_20850_100RB#0

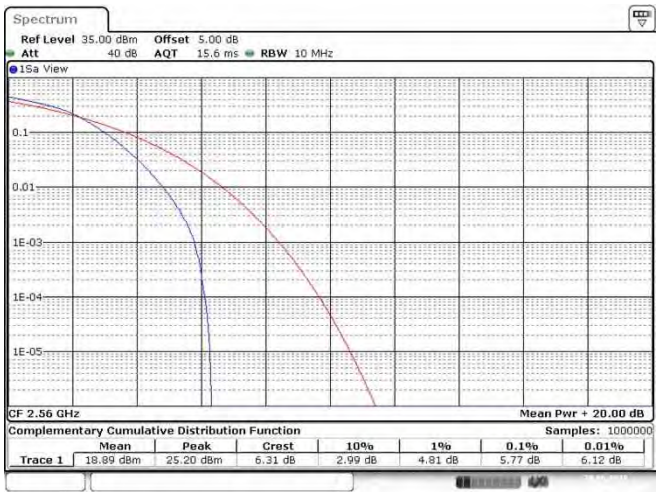


Date: 27.JUN.2018 16:48:00

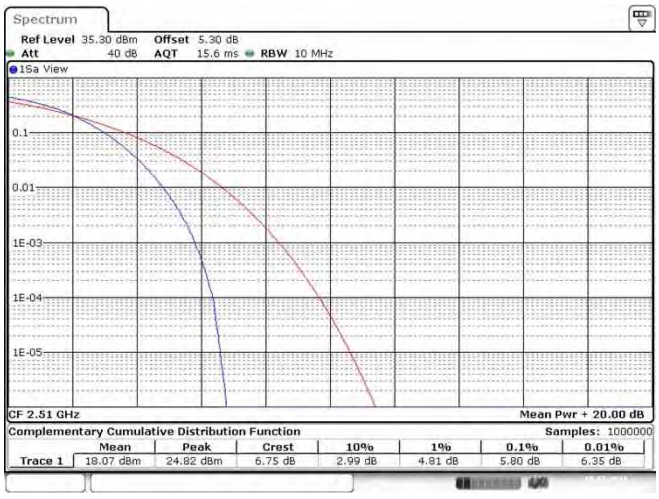
BAND 7_20MHz_16QAM_21100_100RB#0



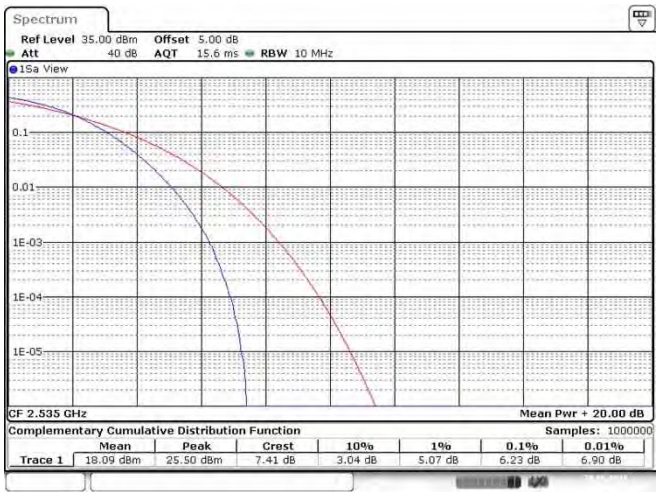
BAND 7_20MHz_16QAM_21350_100RB#0



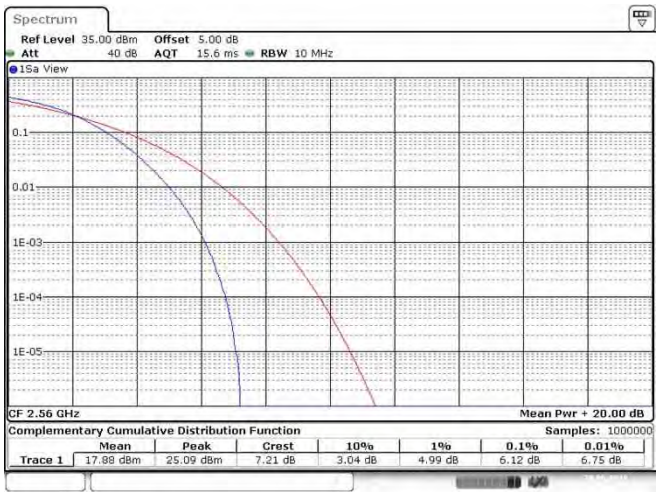
BAND 7_20MHz_64QAM_20850_100RB#0



BAND 7_20MHz_64QAM_21100_100RB#0



BAND 7_20MHz_64QAM_21350_100RB#0

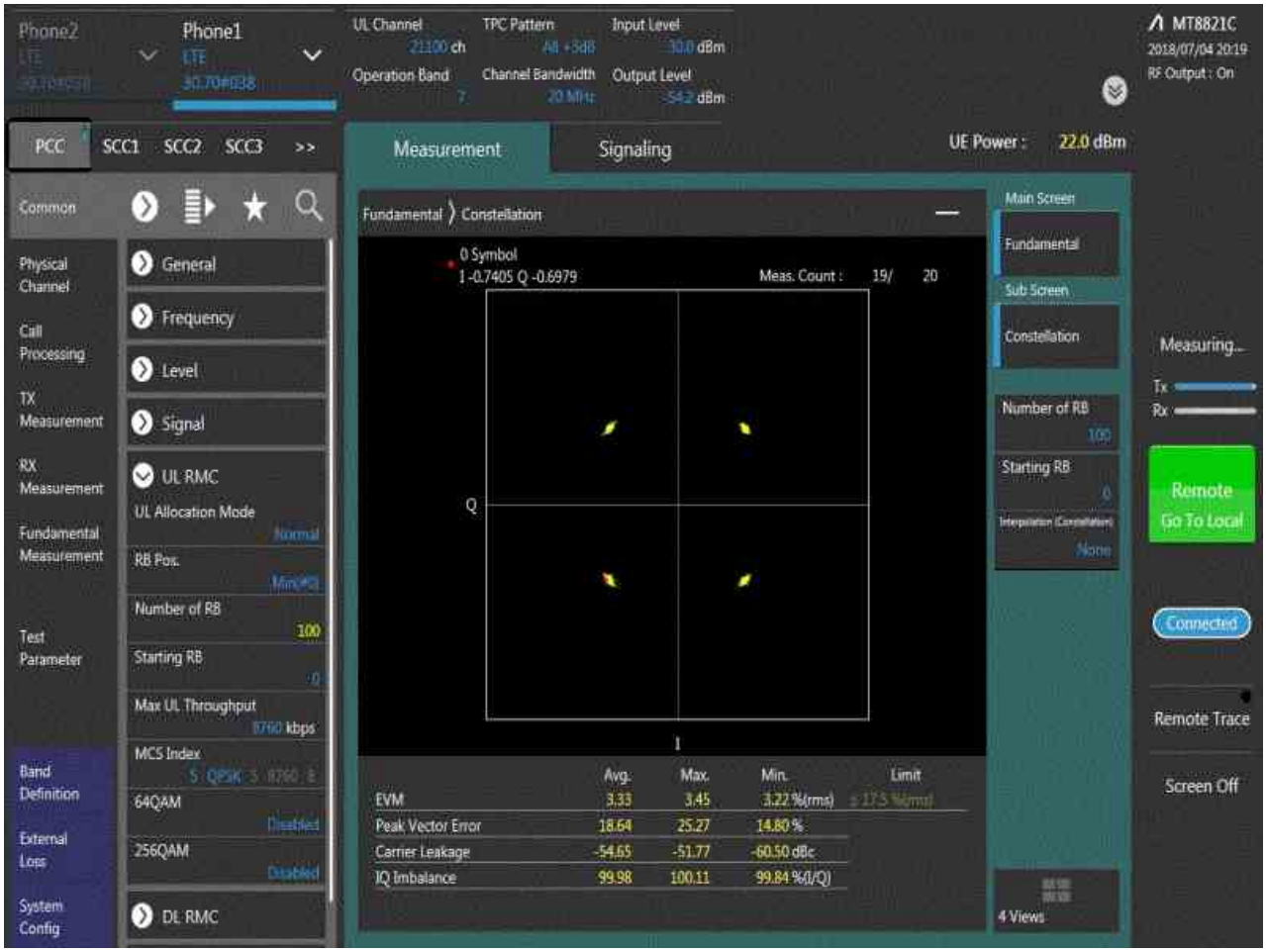


3. Modulation Characteristics

3.1. Test BAND = LTE BAND7

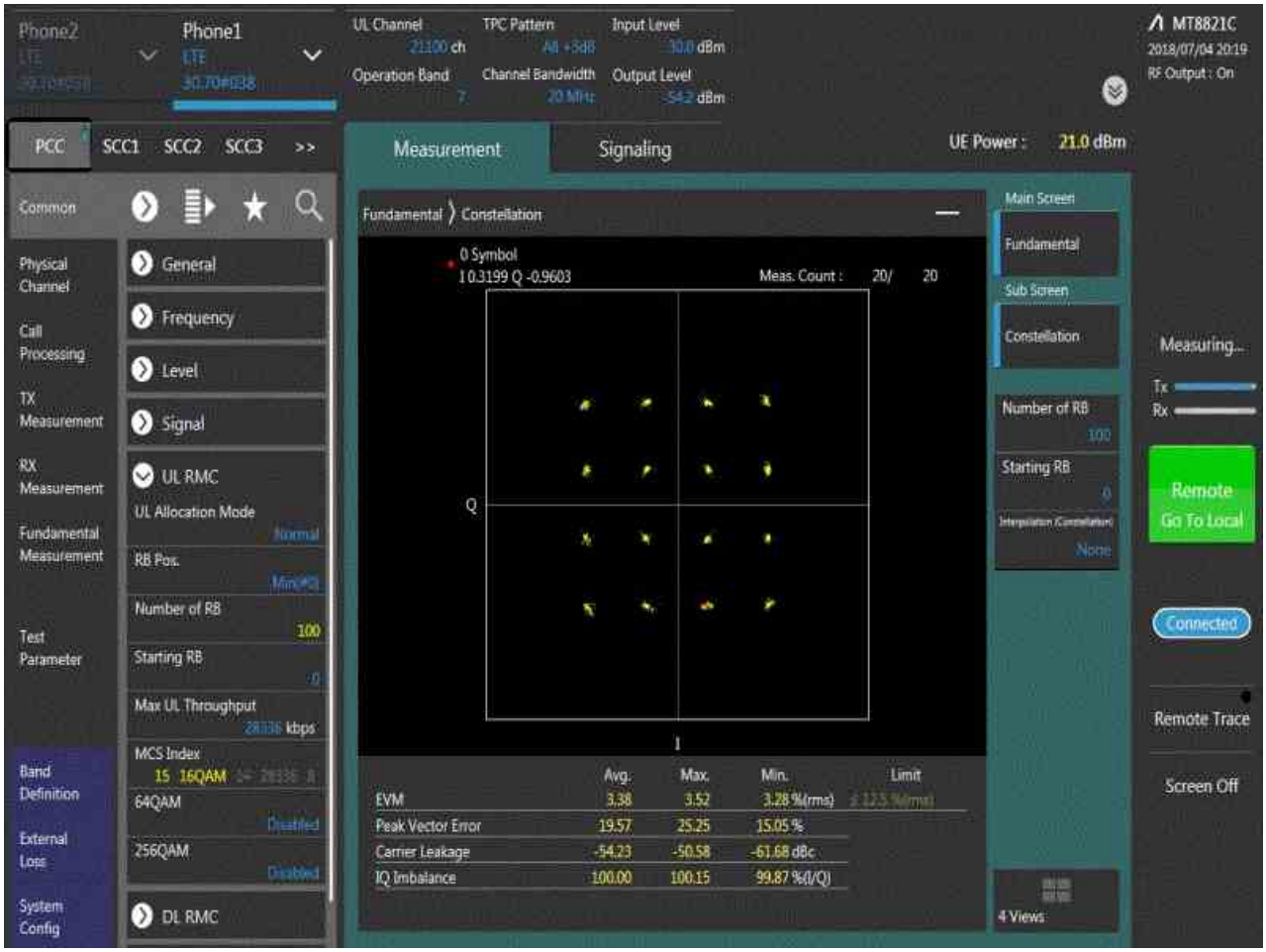
3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



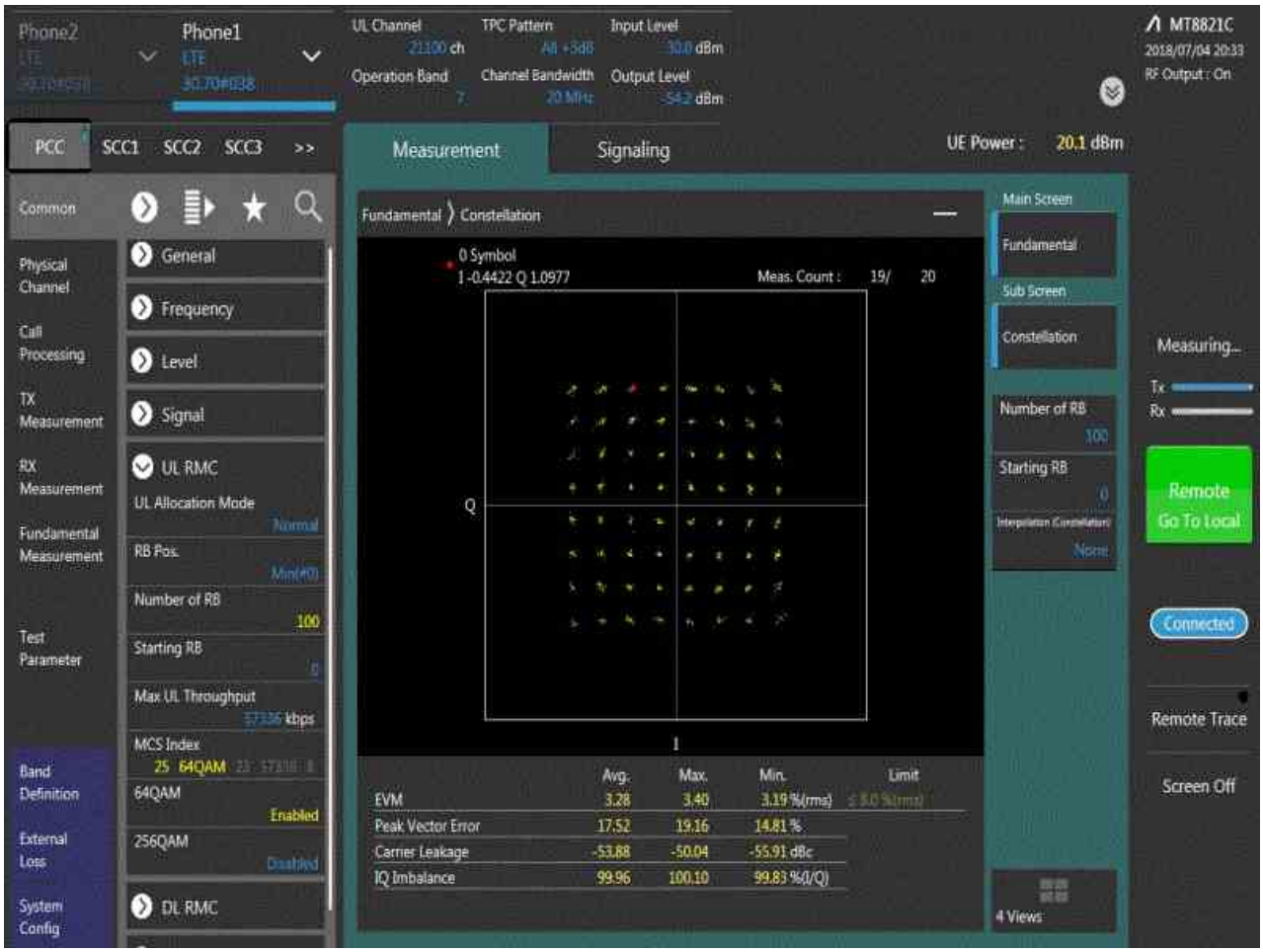
3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



3.1.1. Test Mode = LTE /TM3 20MHz

3.1.1.1. Test Channel = MCH



4. 26dB Bandwidth and Occupied Bandwidth

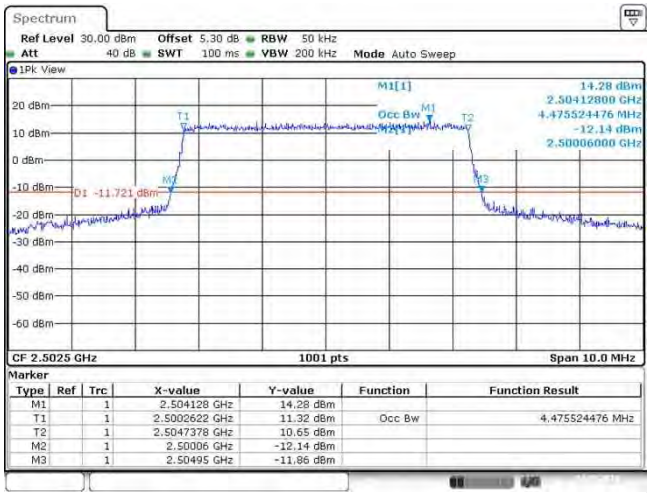
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.476	4.890	PASS
			21100	25RB#0	4.476	4.920	PASS
			21425	25RB#0	4.476	4.900	PASS
		64QAM	20775	25RB#0	4.476	4.900	PASS
			21100	25RB#0	4.486	4.910	PASS
			21425	25RB#0	4.476	4.910	PASS
		16QAM	20775	25RB#0	4.486	4.890	PASS
			21100	25RB#0	4.476	4.900	PASS
			21425	25RB#0	4.486	4.900	PASS
	10MHz	QPSK	20800	50RB#0	8.971	10.380	PASS
			21100	50RB#0	8.971	10.380	PASS
			21400	50RB#0	8.991	10.320	PASS
		64QAM	20800	50RB#0	8.971	10.340	PASS
			21100	50RB#0	8.951	10.400	PASS
			21400	50RB#0	8.971	10.360	PASS
		16QAM	20800	50RB#0	8.971	10.340	PASS
			21100	50RB#0	8.971	10.440	PASS
			21400	50RB#0	8.991	10.400	PASS
	15MHz	QPSK	20825	75RB#0	13.546	16.140	PASS
			21100	75RB#0	13.546	16.380	PASS
			21375	75RB#0	13.546	16.080	PASS
		64QAM	20825	75RB#0	13.546	16.260	PASS
			21100	75RB#0	13.546	15.930	PASS
			21375	75RB#0	13.516	15.600	PASS
		16QAM	20825	75RB#0	13.546	16.260	PASS
			21100	75RB#0	13.546	15.900	PASS
			21375	75RB#0	13.546	15.930	PASS
	20MHz	QPSK	20850	100RB#0	17.942	20.720	PASS
			21100	100RB#0	17.982	20.160	PASS
			21350	100RB#0	17.982	20.400	PASS
		64QAM	20850	100RB#0	17.982	22.160	PASS
			21100	100RB#0	17.982	20.120	PASS
			21350	100RB#0	17.942	19.960	PASS

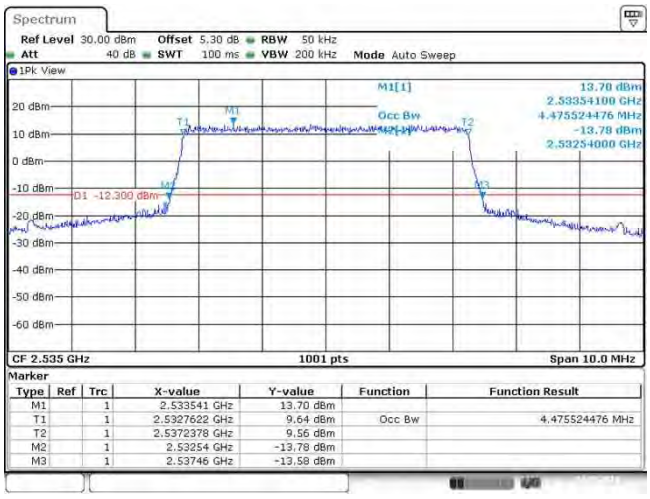
		16QAM	20850	100RB#0	17.982	22.160	PASS
			21100	100RB#0	17.942	20.120	PASS
			21350	100RB#0	17.942	20.280	PASS

4.2. Test Plots

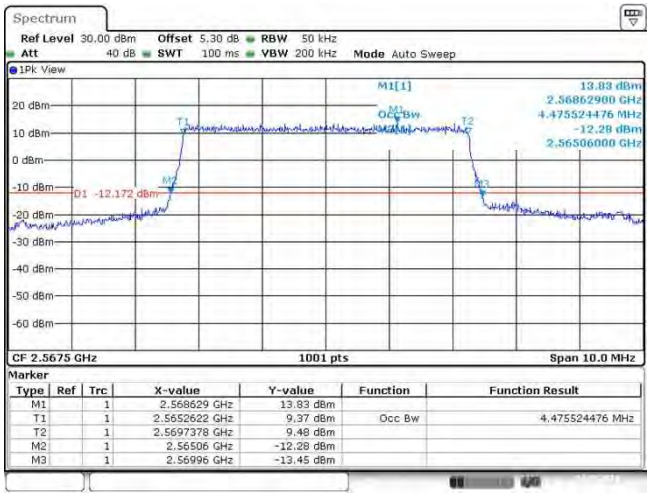
Band7_5MHz_QPSK_20775_25RB#0



Band7_5MHz_QPSK_21100_25RB#0

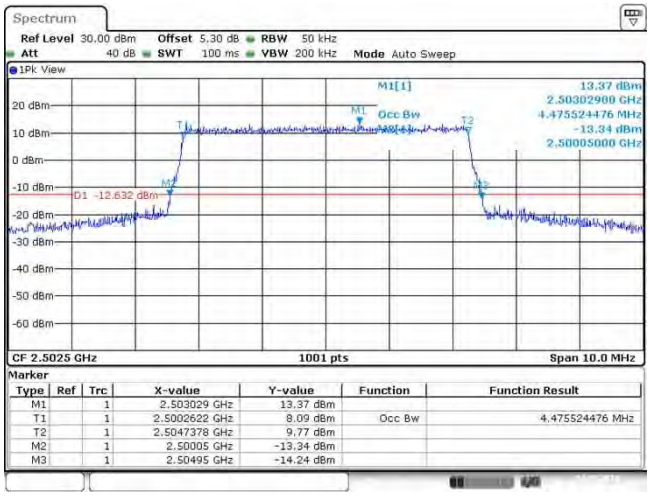


Band7_5MHz_QPSK_21425_25RB#0



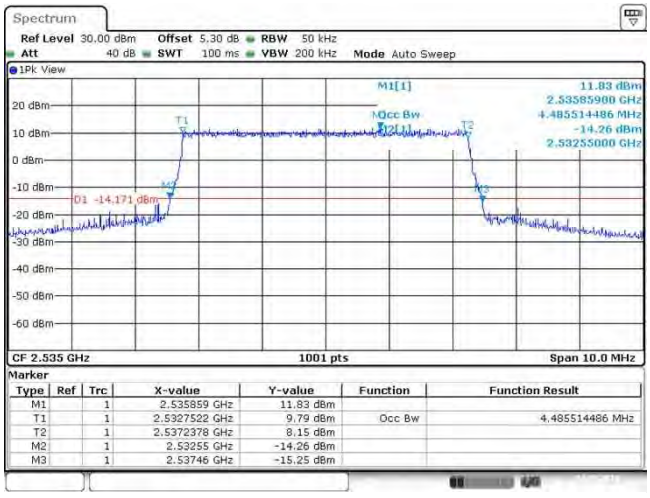
Date: 12.JUL.2018 14:33:41

Band7_5MHz_64QAM_20775_25RB#0



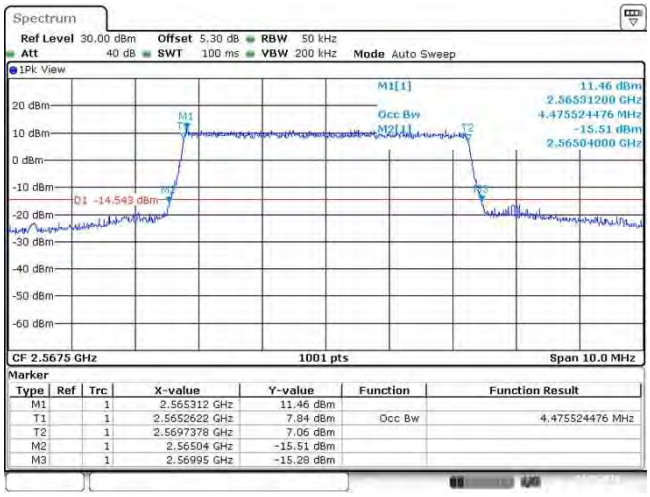
Date: 12.JUL.2018 14:32:21

Band7_5MHz_64QAM_21100_25RB#0



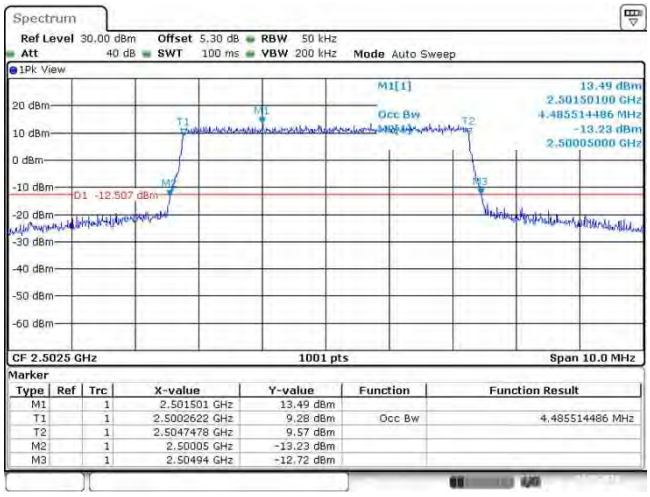
Date: 12.JUL.2018 14:33:21

Band7_5MHz_64QAM_21425_25RB#0



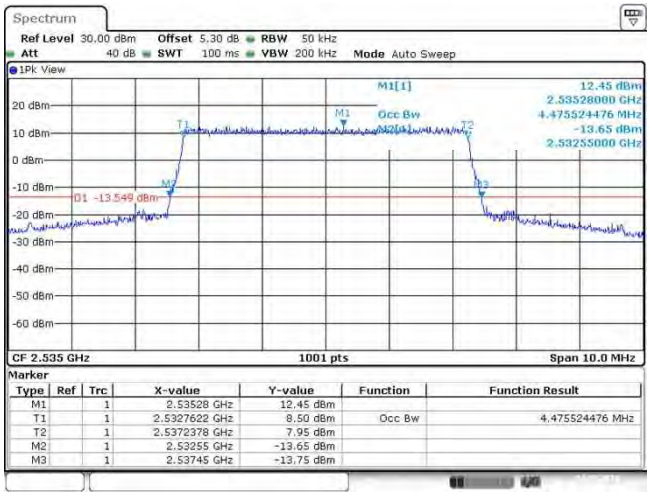
Date: 12.JUL.2018 14:34:21

Band7_5MHz_16QAM_20775_25RB#0



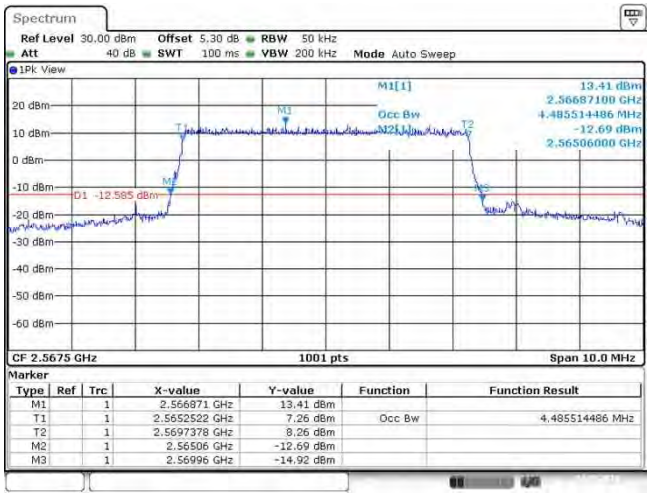
Date: 12.JUL.2018 14:31:57

Band7_5MHz_16QAM_21100_25RB#0

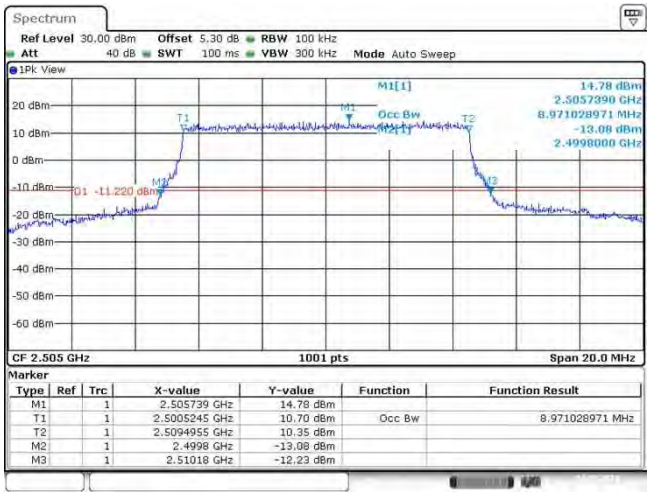


Date: 12.JUL.2018 14:33:01

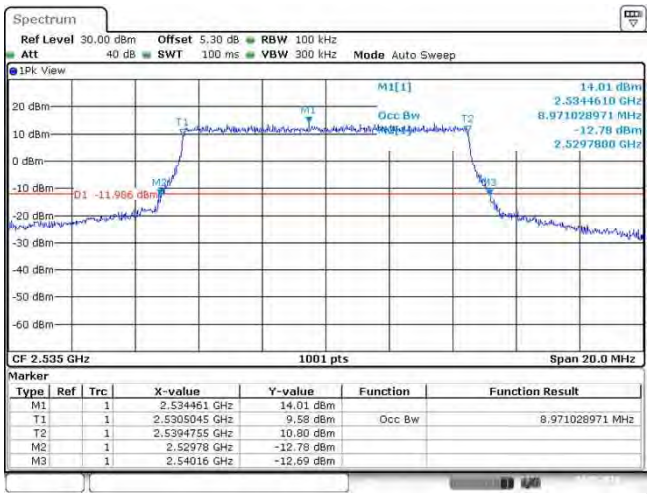
Band7_5MHz_16QAM_21425_25RB#0



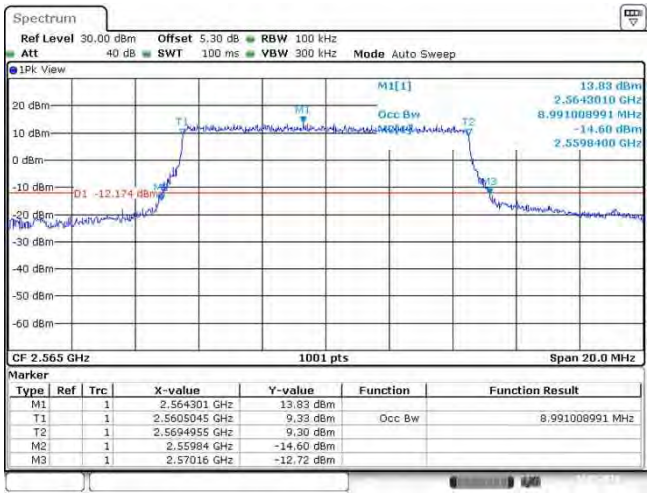
Band7_10MHz_QPSK_20800_50RB#0



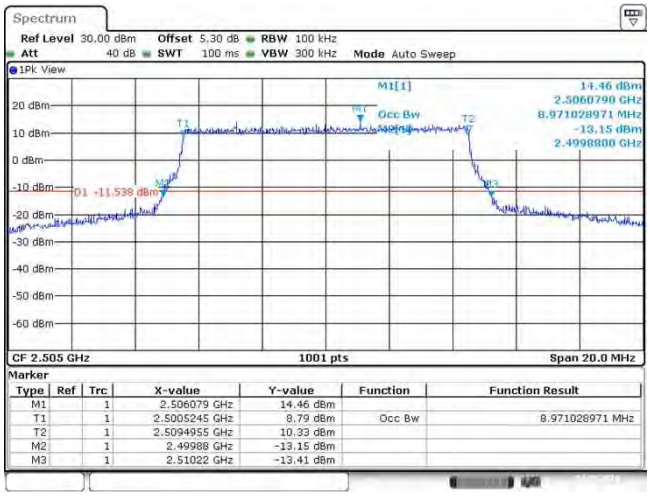
Band7_10MHz_QPSK_21100_50RB#0



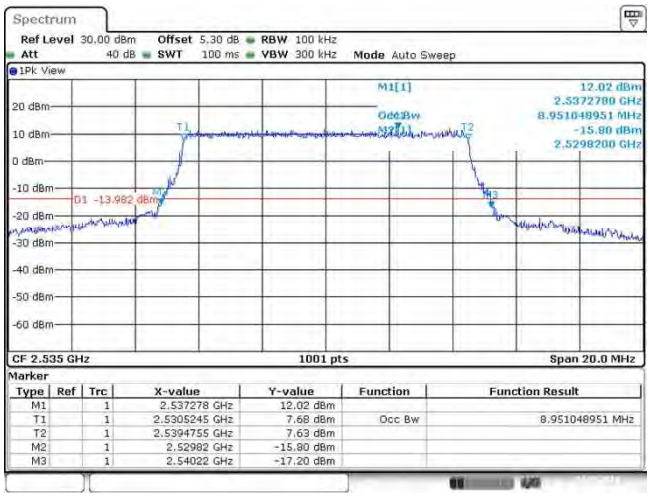
Band7_10MHz_QPSK_21400_50RB#0



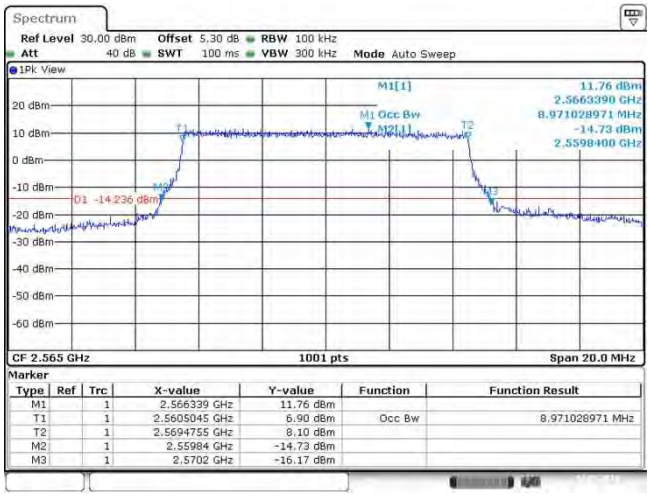
Band7_10MHz_64QAM_20800_50RB#0



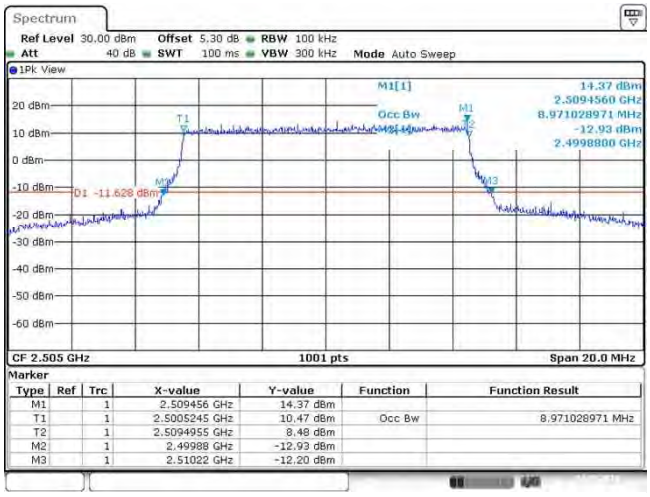
Band7_10MHz_64QAM_21100_50RB#0



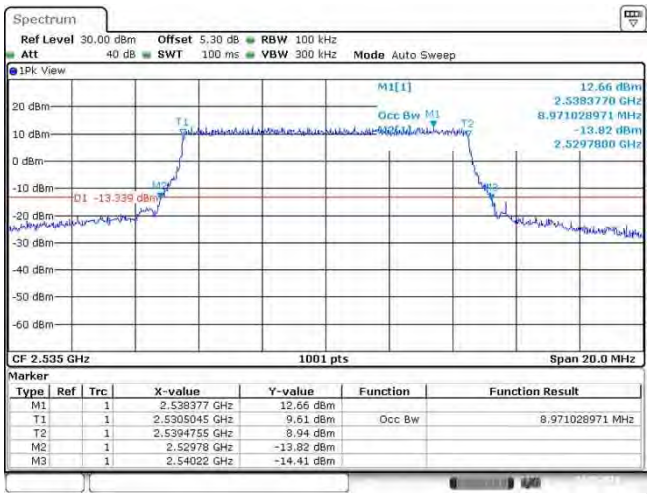
Band7_10MHz_64QAM_21400_50RB#0



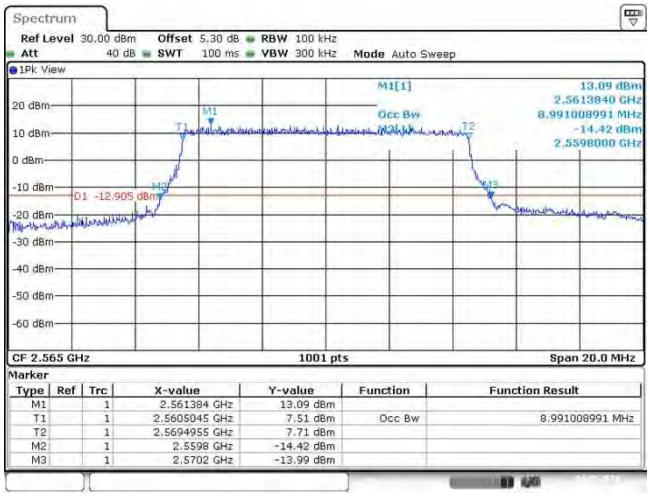
Band7_10MHz_16QAM_20800_50RB#0



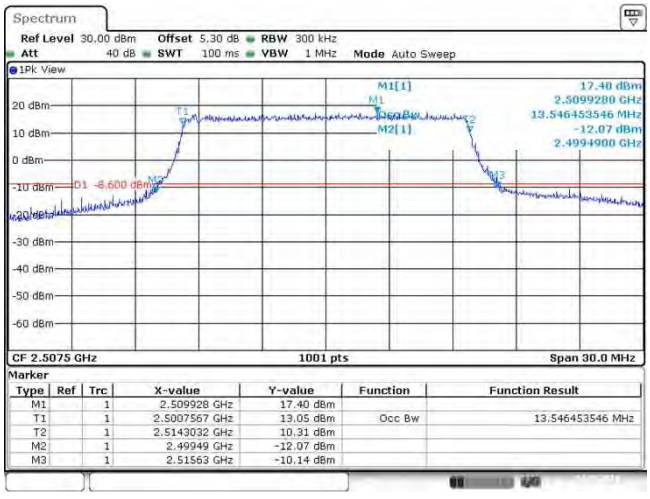
Band7_10MHz_16QAM_21100_50RB#0



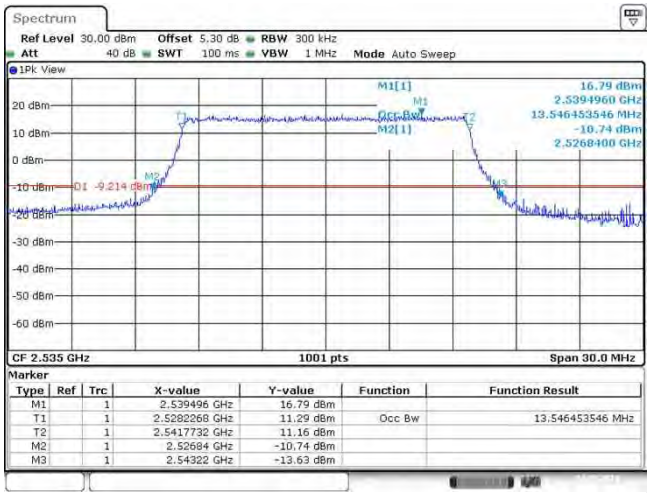
Band7_10MHz_16QAM_21400_50RB#0



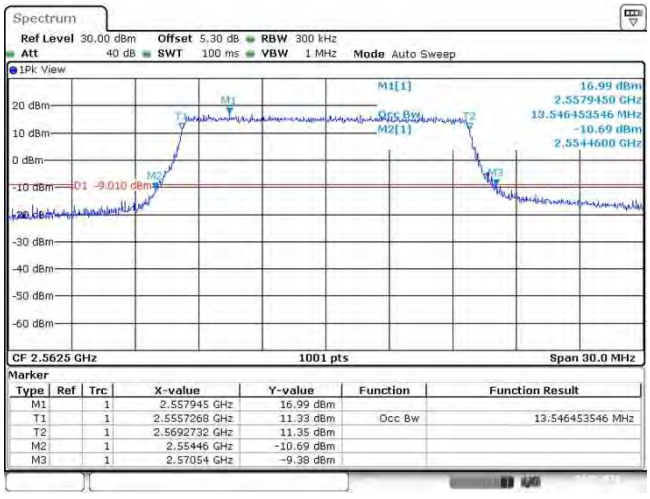
Band7_15MHz_QPSK_20825_75RB#0



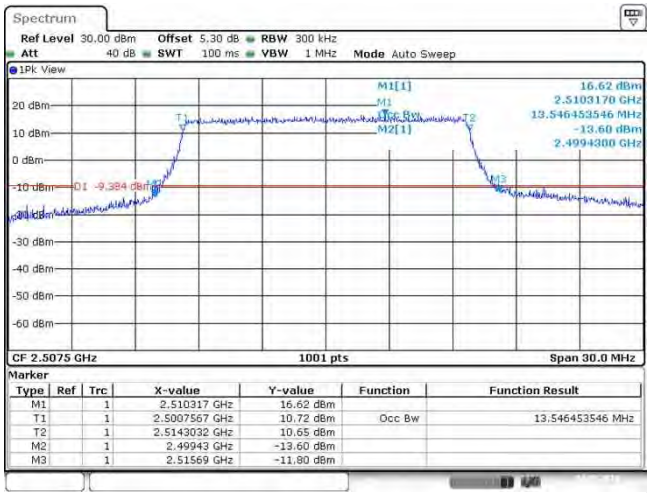
Band7_15MHz_QPSK_21100_75RB#0



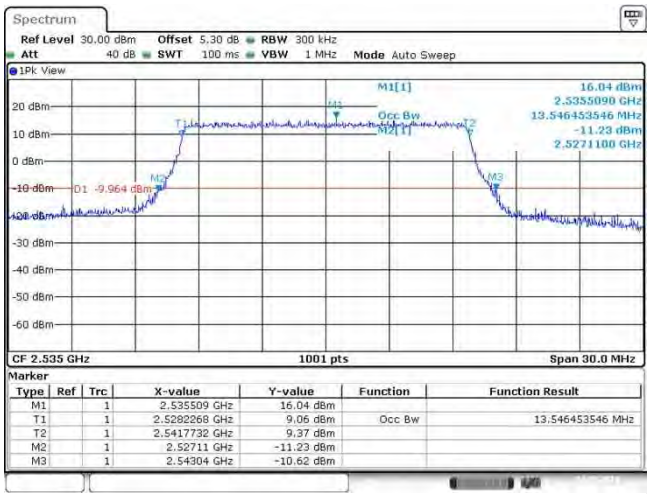
Band7_15MHz_QPSK_21375_75RB#0



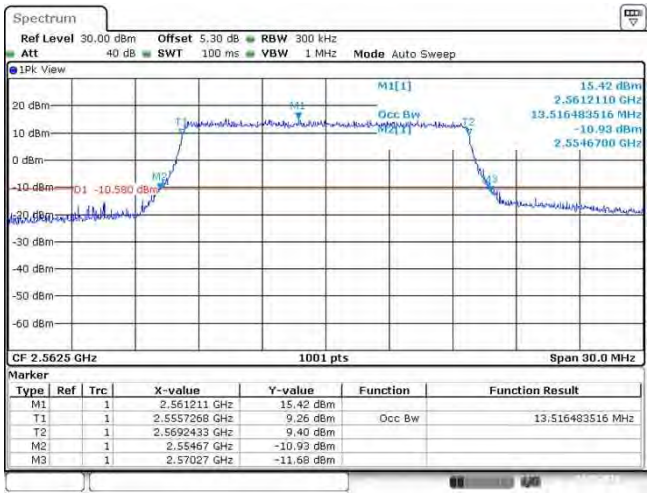
Band7_15MHz_64QAM_20825_75RB#0



Band7_15MHz_64QAM_21100_75RB#0

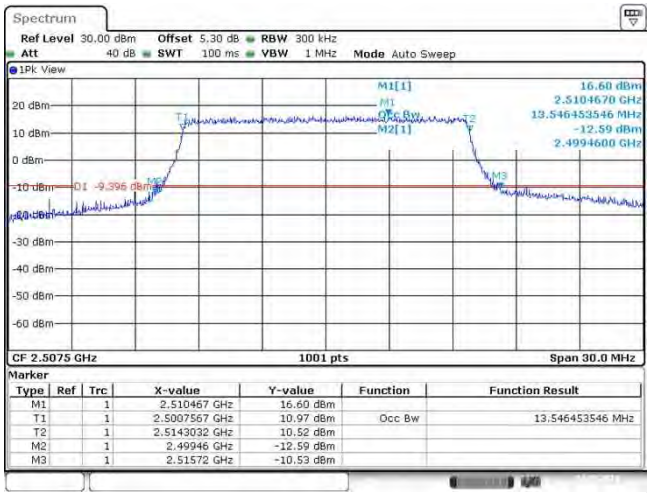


Band7_15MHz_64QAM_21375_75RB#0



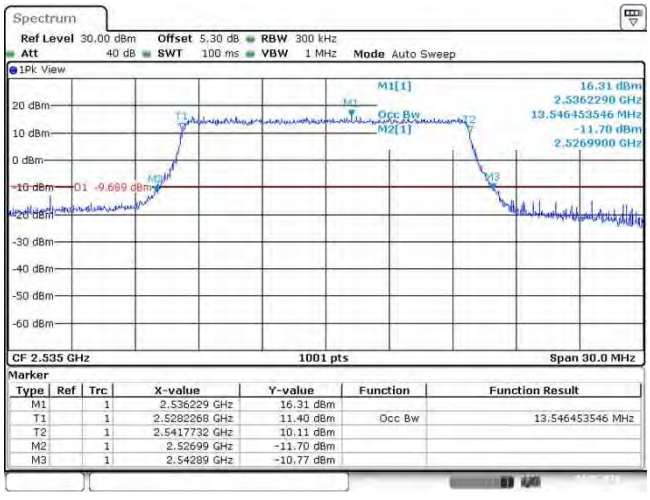
Date: 12.JUL.2018 14:39:17

Band7_15MHz_16QAM_20825_75RB#0



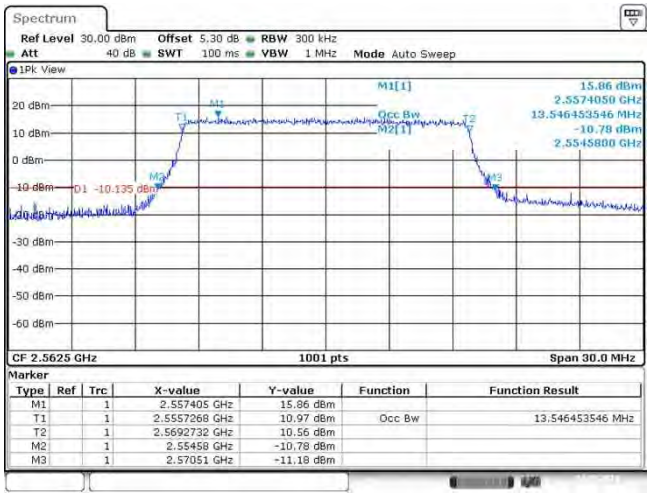
Date: 12.JUL.2018 14:37:02

Band7_15MHz_16QAM_21100_75RB#0

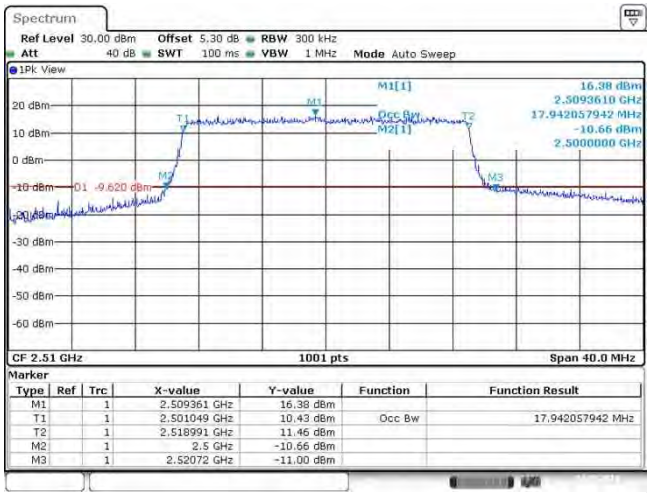


Date: 12.JUL.2018 14:38:20

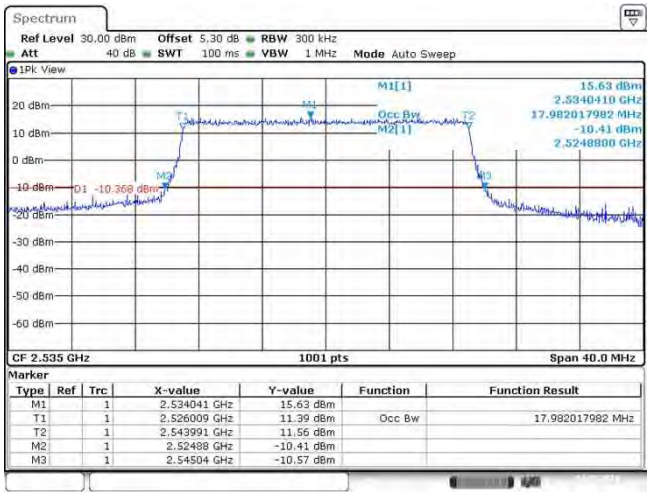
Band7_15MHz_16QAM_21375_75RB#0



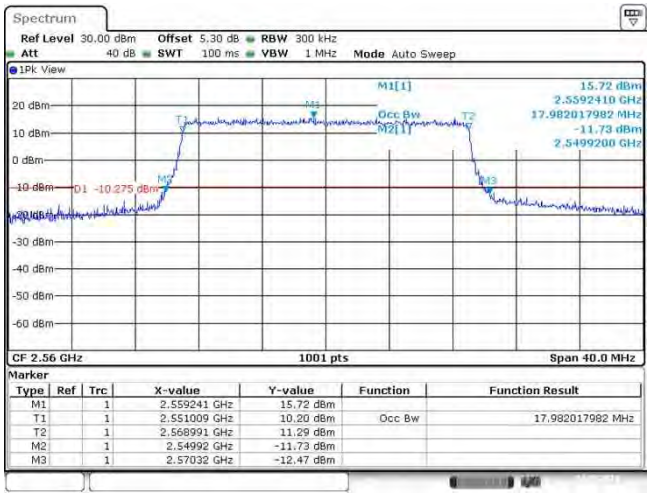
Band7_20MHz_QPSK_20850_100RB#0



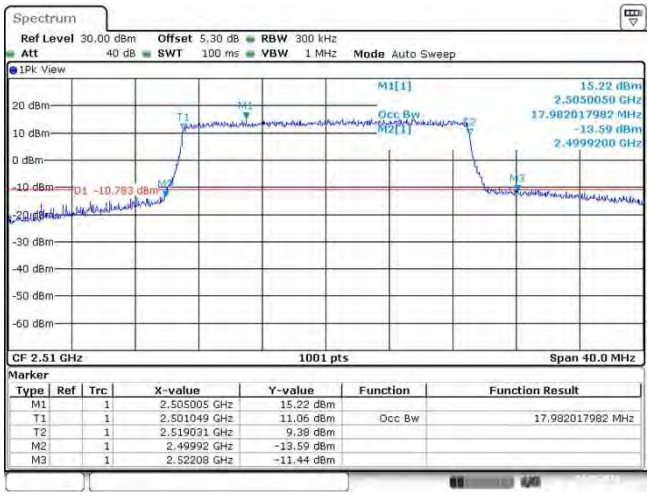
Band7_20MHz_QPSK_21100_100RB#0



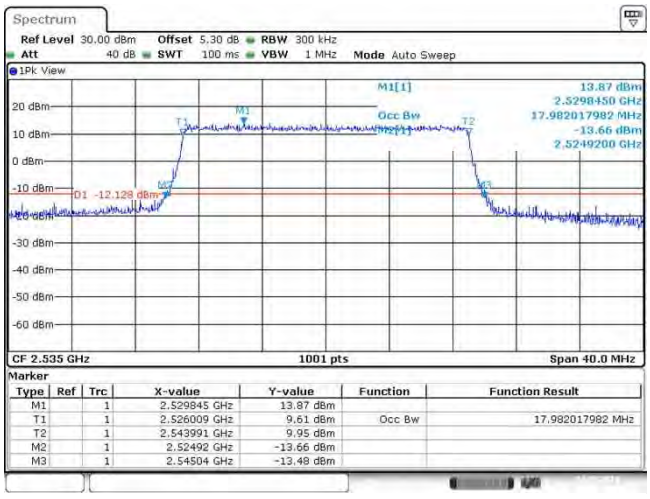
Band7_20MHz_QPSK_21350_100RB#0



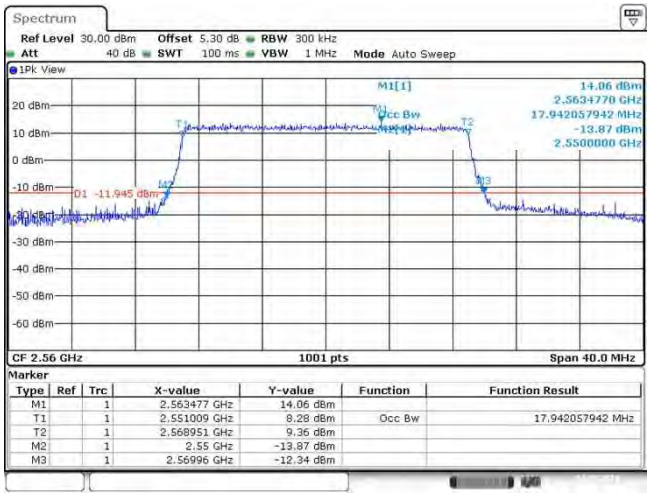
Band7_20MHz_64QAM_20850_100RB#0



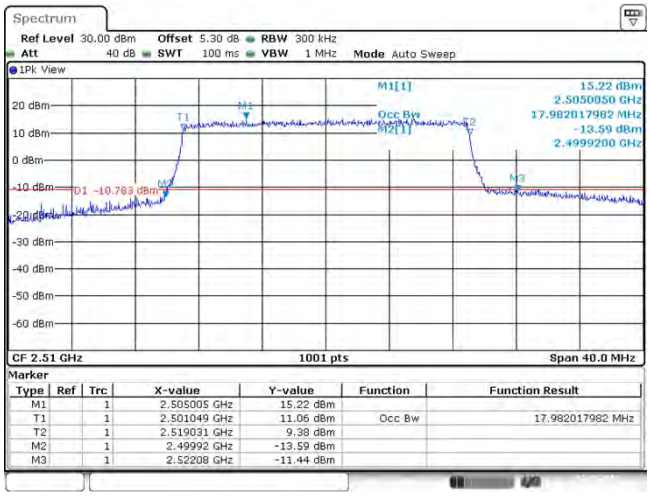
Band7_20MHz_64QAM_21100_100RB#0



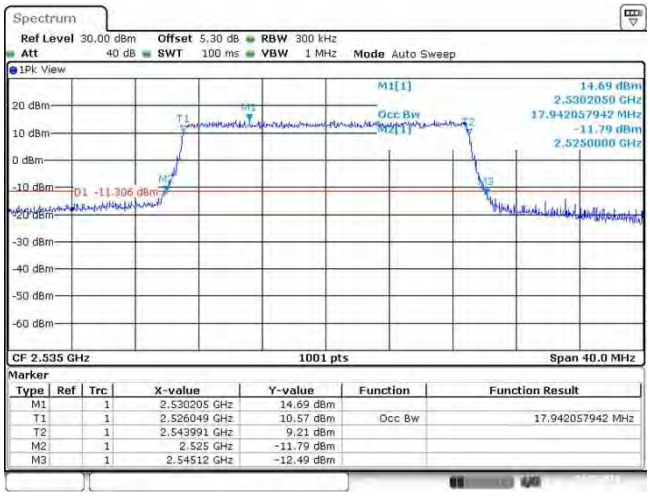
Band7_20MHz_64QAM_21350_100RB#0



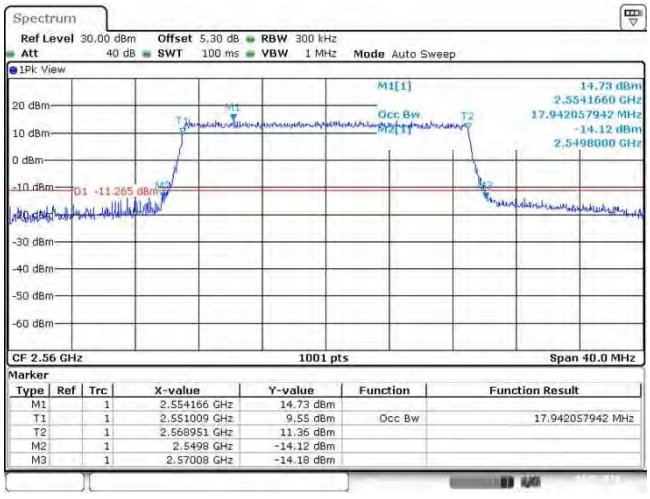
Band7_20MHz_16QAM_20850_100RB#0



Band7_20MHz_16QAM_21100_100RB#0



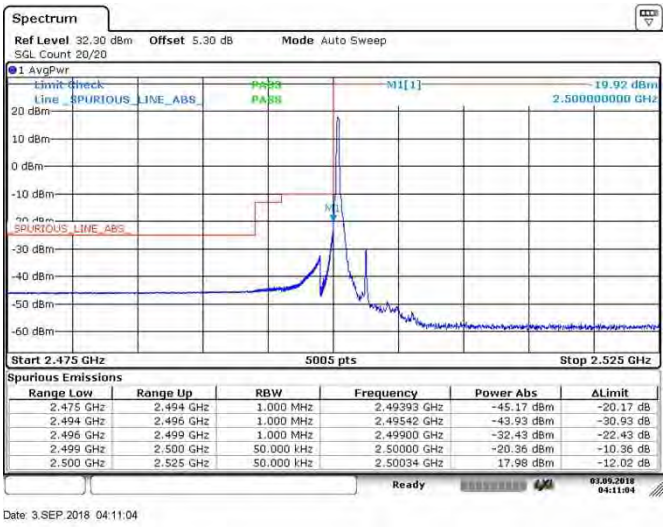
Band7_20MHz_16QAM_21350_100RB#0



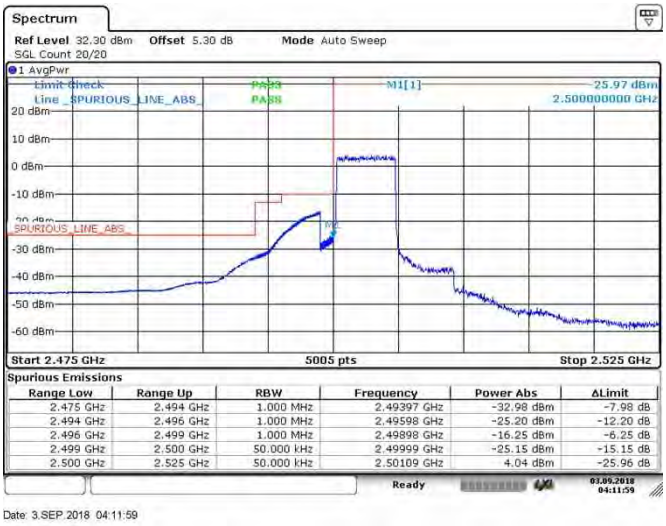
5. Band Edge Compliance

5.1. Test Plots

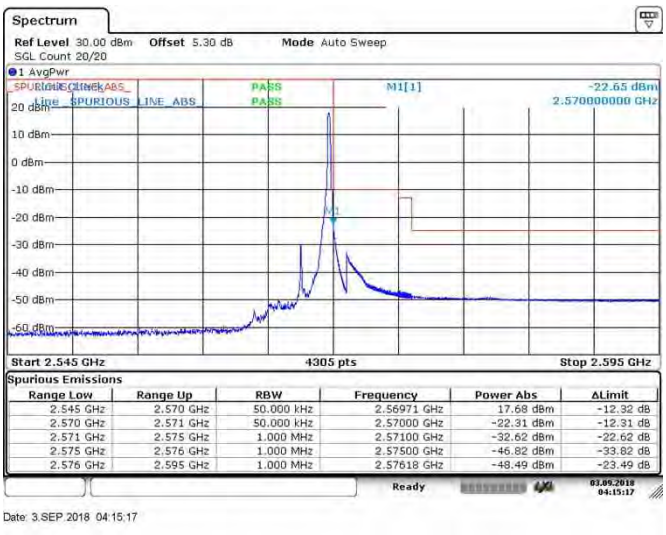
BAND 7_5MHz_QPSK_20775_1RB#0



BAND 7_5MHz_QPSK_20775_25RB#0

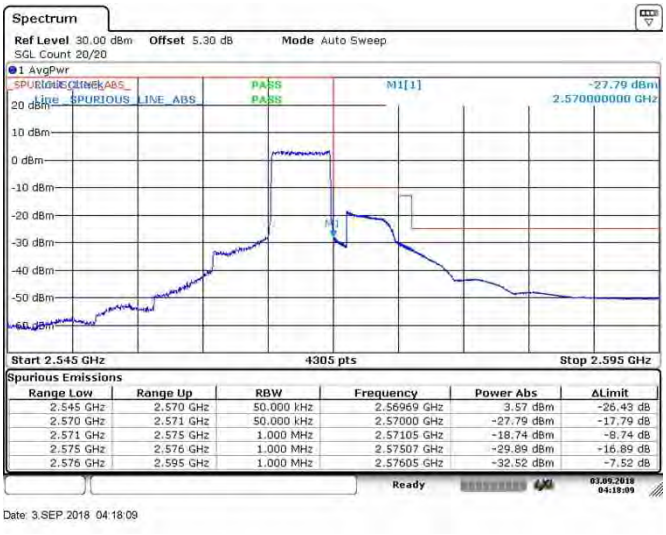


BAND 7_5MHz_QPSK_21425_1RB#24



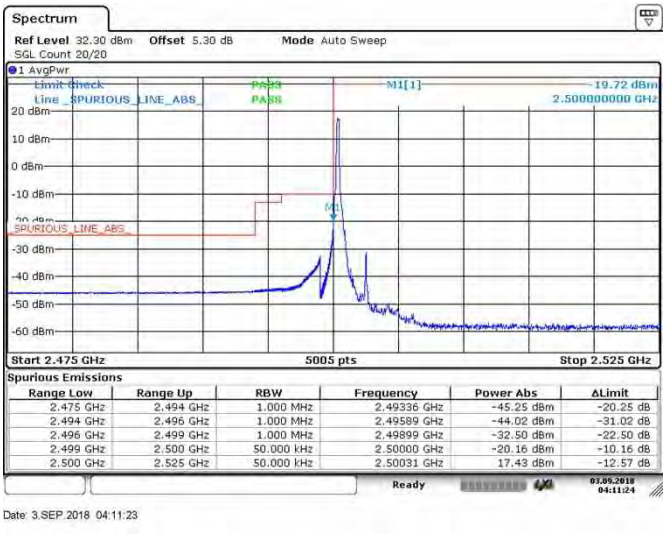
Date: 3.SEP.2018 04:15:17

BAND 7_5MHz_QPSK_21425_25RB#0



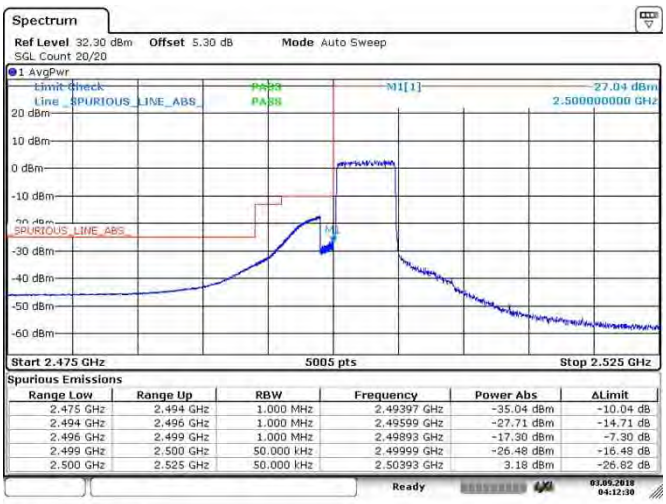
Date: 3.SEP.2018 04:18:09

BAND 7_5MHz_16QAM_20775_1RB#0

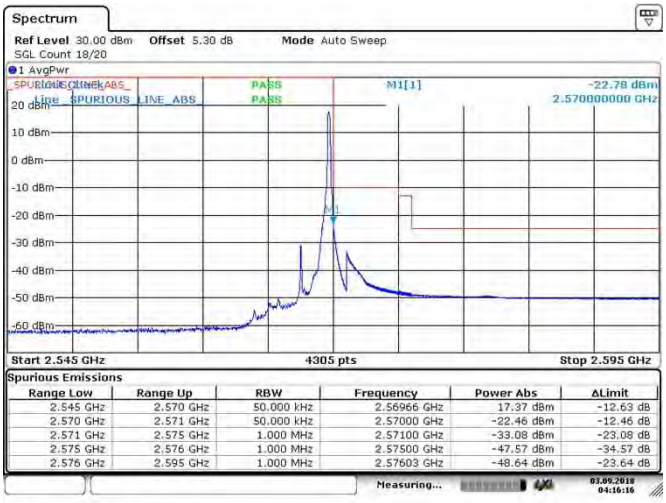


Date: 3.SEP.2018 04:11:23

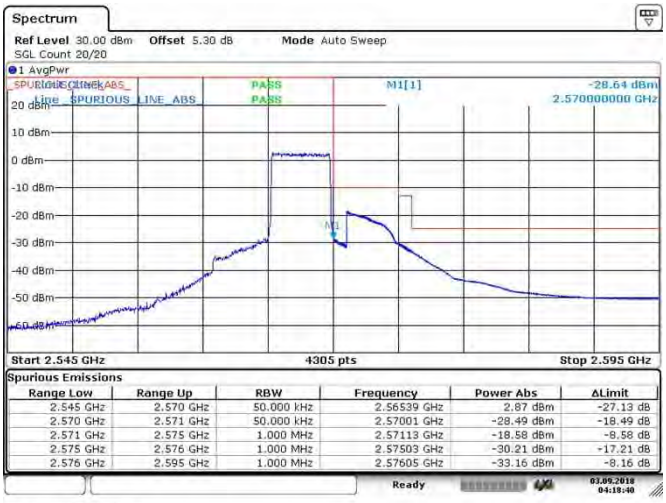
BAND 7_5MHz_16QAM_20775_25RB#0



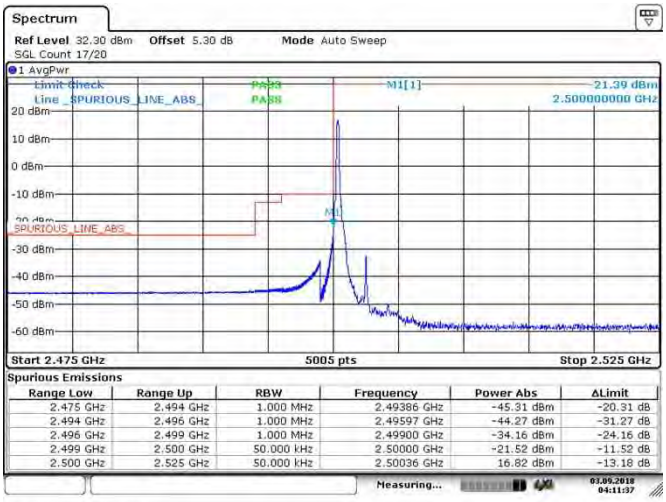
BAND 7_5MHz_16QAM_21425_1RB#24



BAND 7_5MHz_16QAM_21425_25RB#0

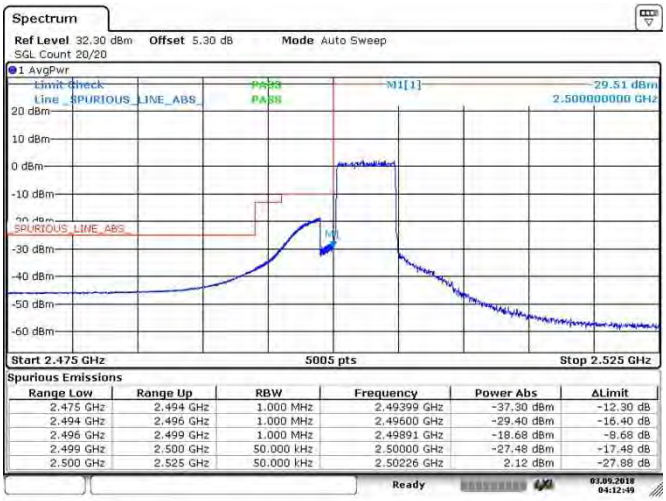


BAND 7_5MHz_64QAM_20775_1RB#0



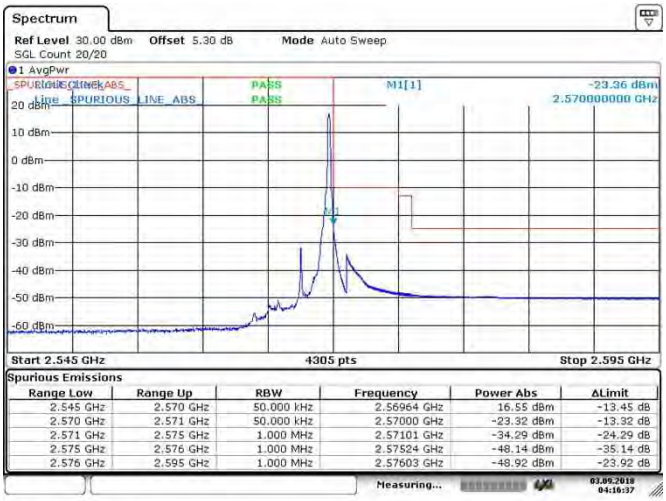
Date: 3.SEP.2018 04:11:37

BAND 7_5MHz_64QAM_20775_25RB#0



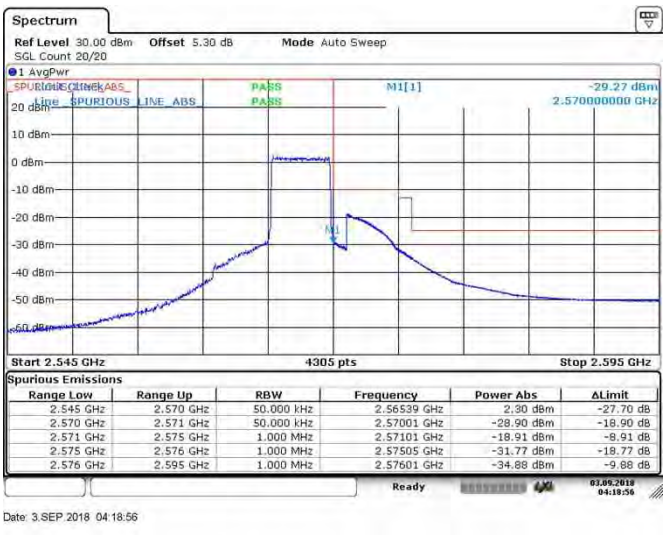
Date: 3.SEP.2018 04:12:49

BAND 7_5MHz_64QAM_21425_1RB#24



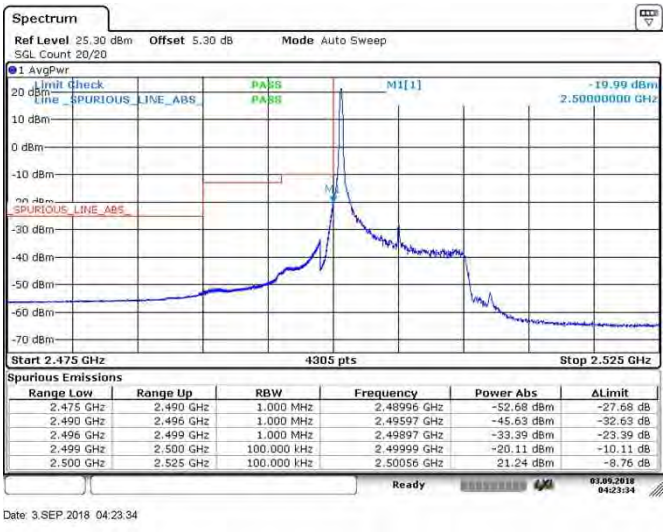
Date: 3.SEP.2018 04:16:37

BAND 7_5MHz_64QAM_21425_25RB#0



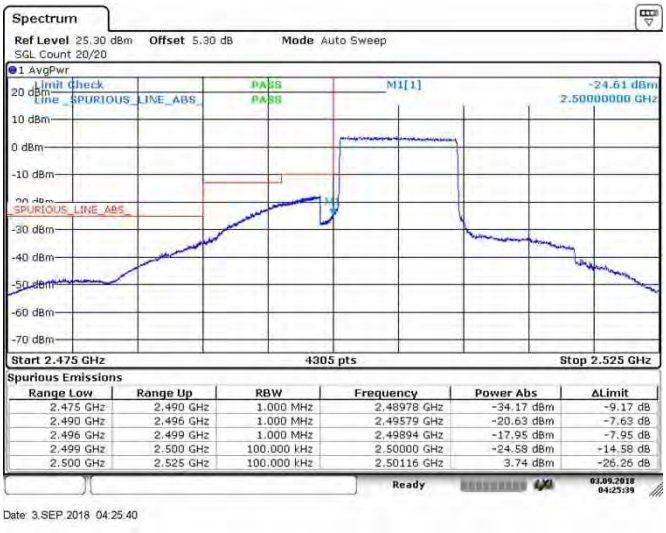
Date: 3.SEP.2018 04:18:56

BAND 7_10MHz_QPSK_20800_1RB#0



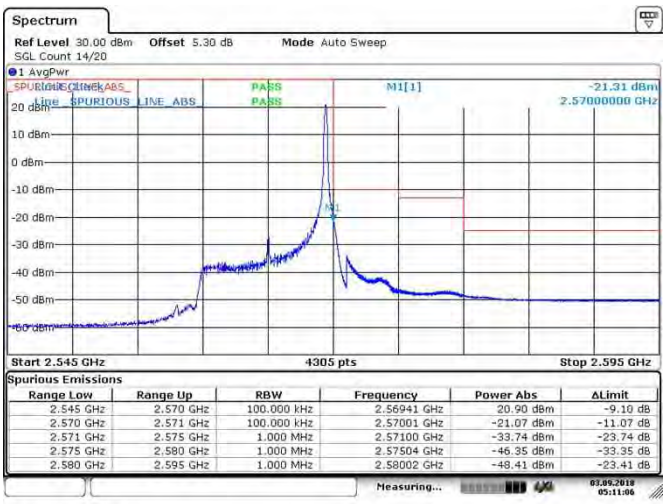
Date: 3.SEP.2018 04:23:34

BAND 7_10MHz_QPSK_20800_50RB#0



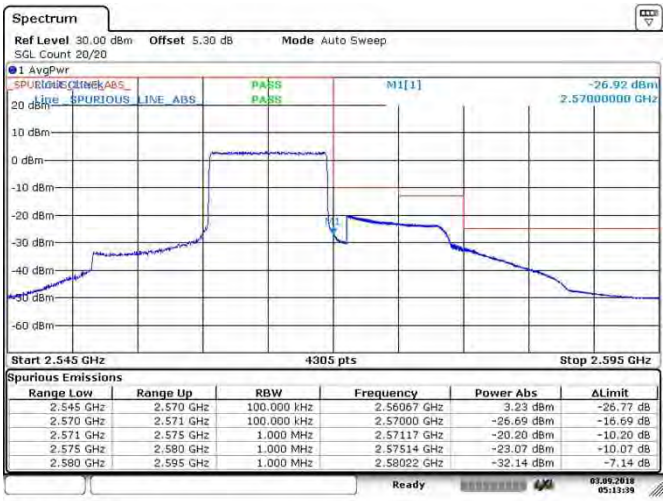
Date: 3.SEP.2018 04:25:40

BAND 7_10MHz_QPSK_21400_1RB#49



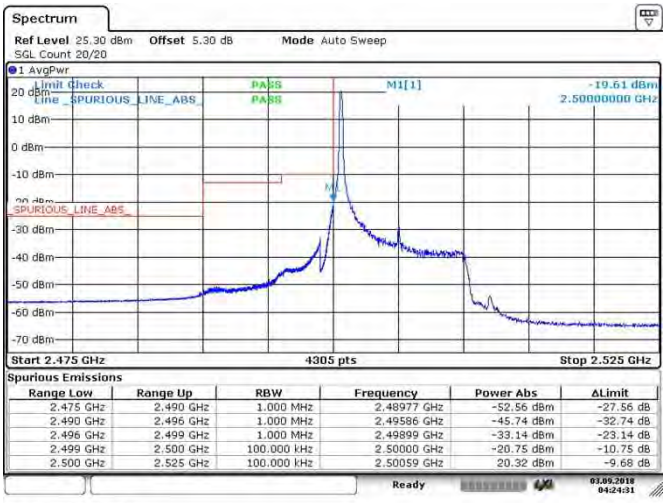
Date: 3.SEP 2018 05:11:06

BAND 7_10MHz_QPSK_21400_50RB#0



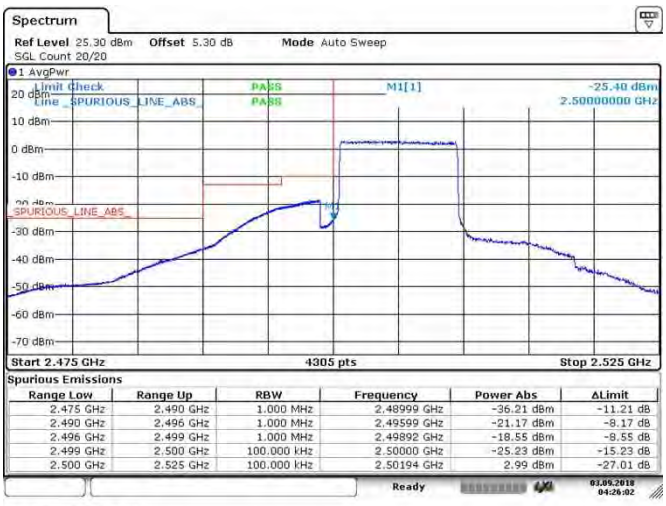
Date: 3.SEP 2018 05:13:39

BAND 7_10MHz_16QAM_20800_1RB#0



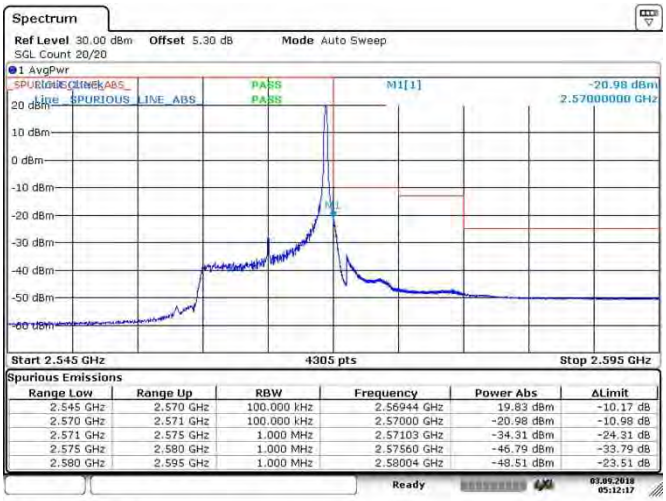
Date: 3.SEP 2018 04:24:31

BAND 7_10MHz_16QAM_20800_50RB#0



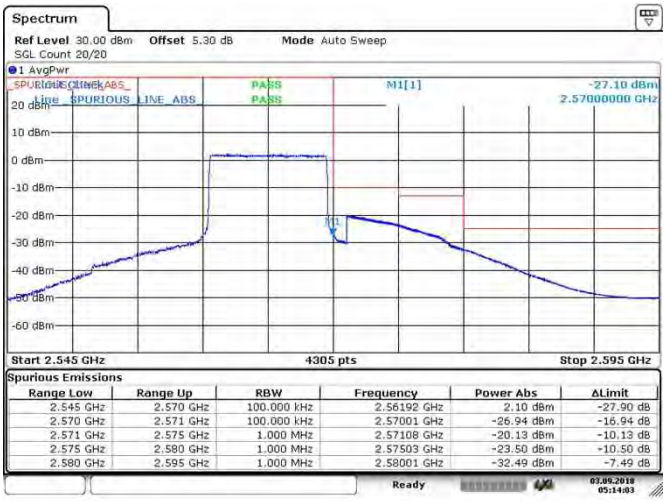
Date: 3.SEP.2018 04:26:02

BAND 7_10MHz_16QAM_21400_1RB#49



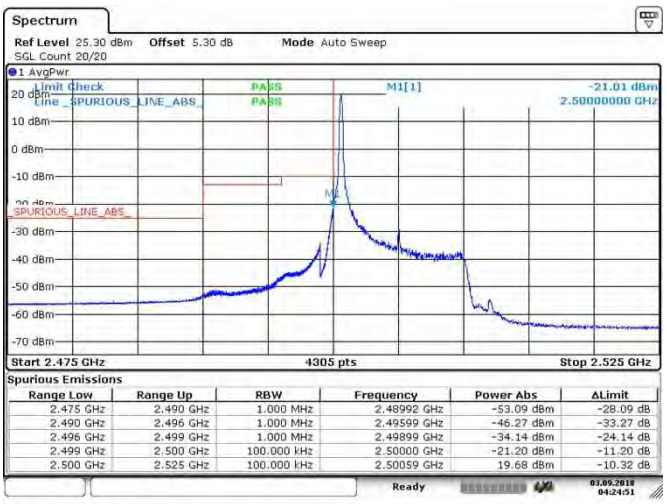
Date: 3.SEP.2018 05:12:17

BAND 7_10MHz_16QAM_21400_50RB#0



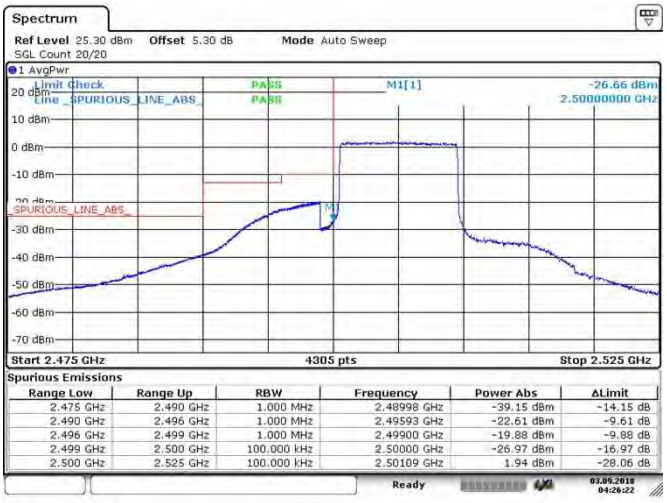
Date: 3.SEP.2018 05:14:04

BAND 7_10MHz_64QAM_20800_1RB#0



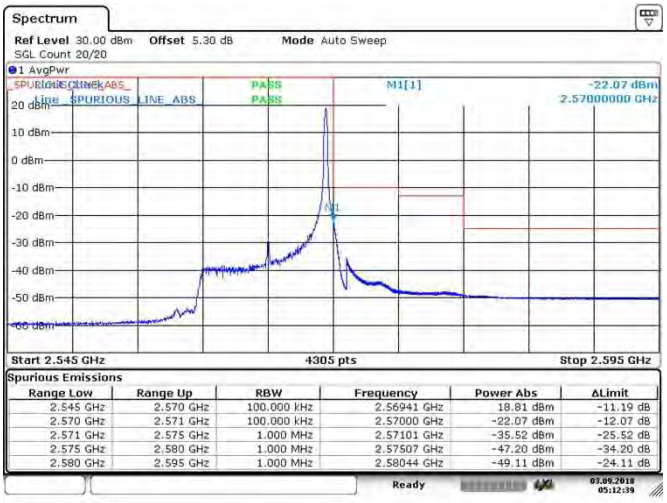
Date: 3.SEP.2018 04:24:51

BAND 7_10MHz_64QAM_20800_50RB#0



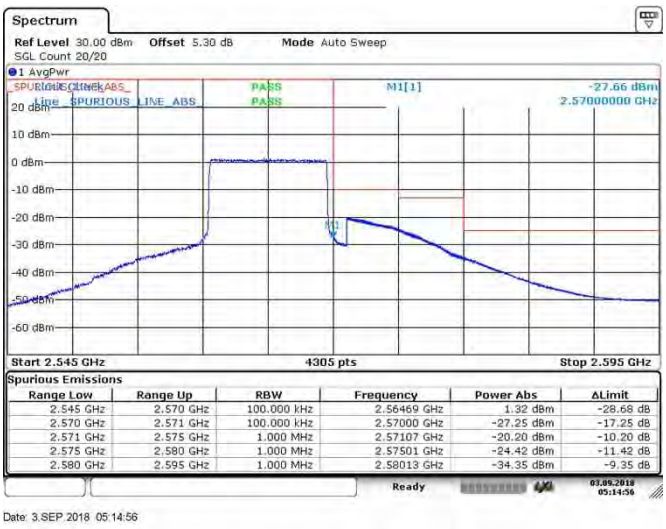
Date: 3.SEP.2018 04:26:22

BAND 7_10MHz_64QAM_21400_1RB#49

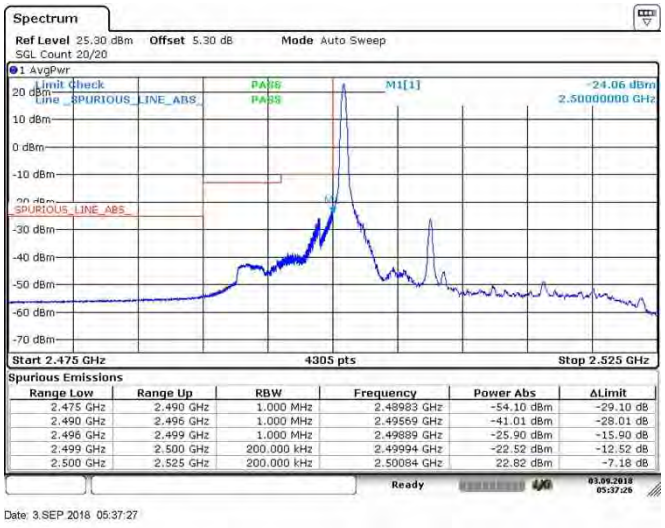


Date: 3.SEP.2018 05:12:39

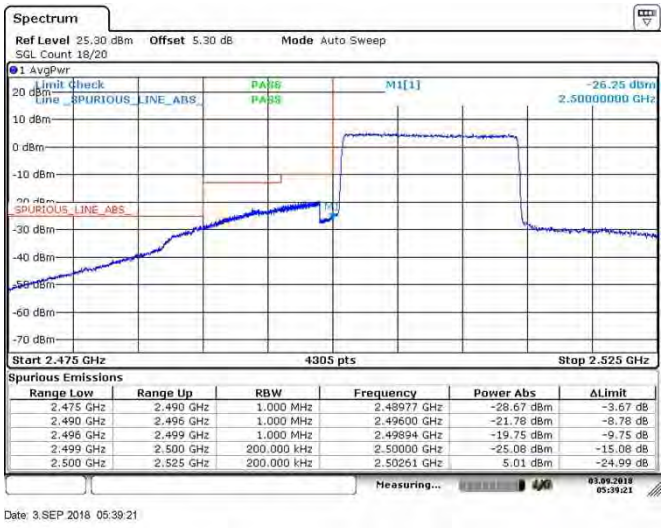
BAND 7_10MHz_64QAM_21400_50RB#0



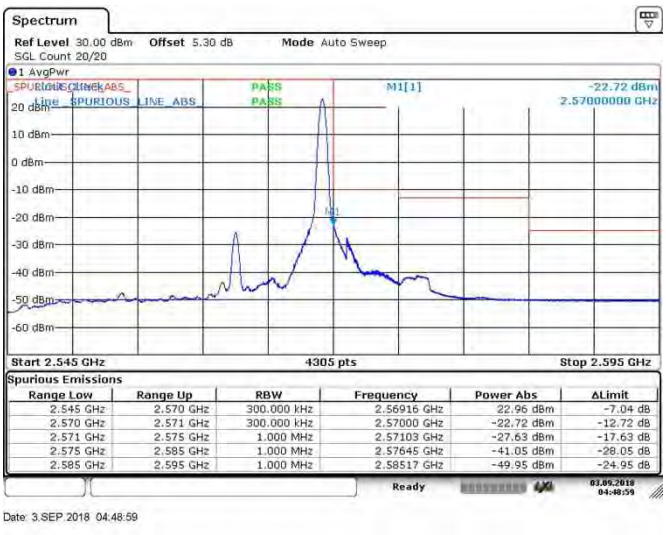
BAND 7_15MHz_QPSK_20825_1RB#0



BAND 7_15MHz_QPSK_20825_75RB#0

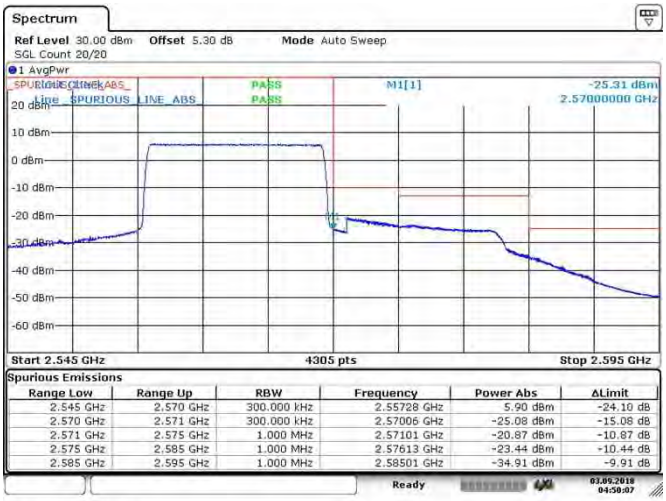


BAND 7_15MHz_QPSK_21375_1RB#74



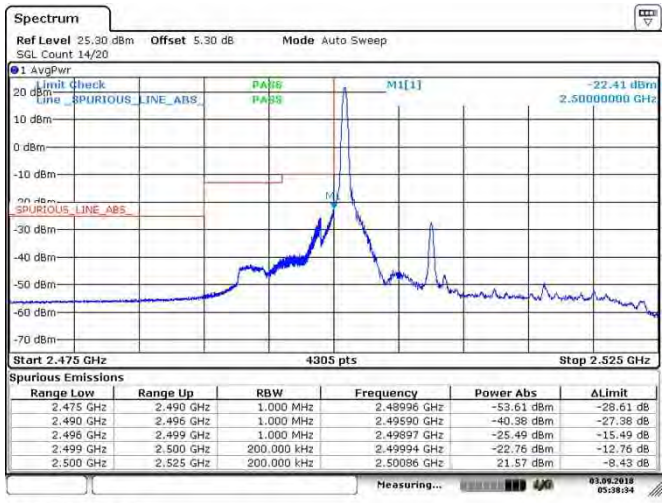
Date: 3.SEP 2018 04:48:59

BAND 7_15MHz_QPSK_21375_75RB#0



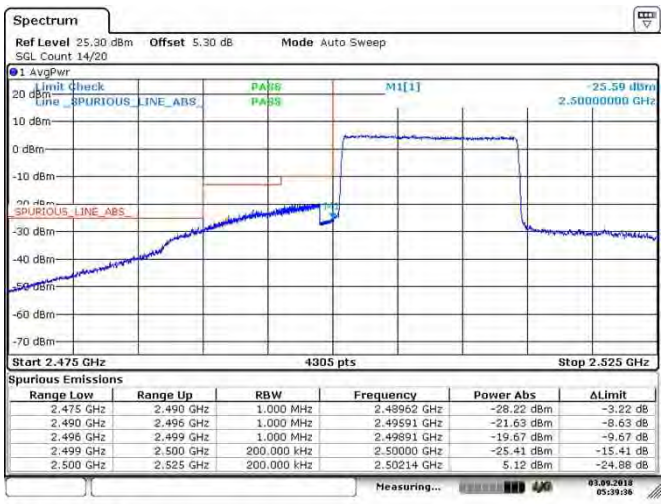
Date: 3.SEP 2018 04:50:07

BAND 7_15MHz_16QAM_20825_1RB#0



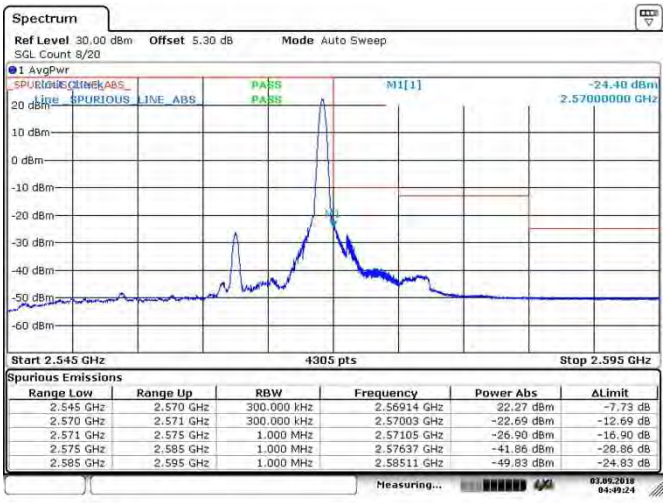
Date: 3.SEP 2018 05:38:34

BAND 7_15MHz_16QAM_20825_75RB#0



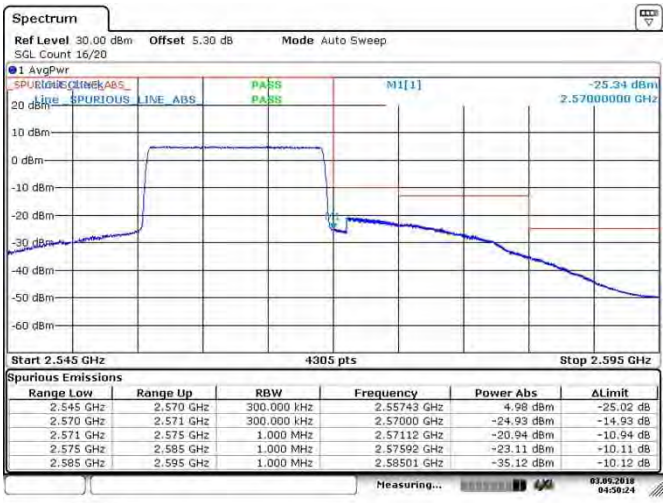
Date: 3.SEP.2018 05:39:36

BAND 7_15MHz_16QAM_21375_1RB#74



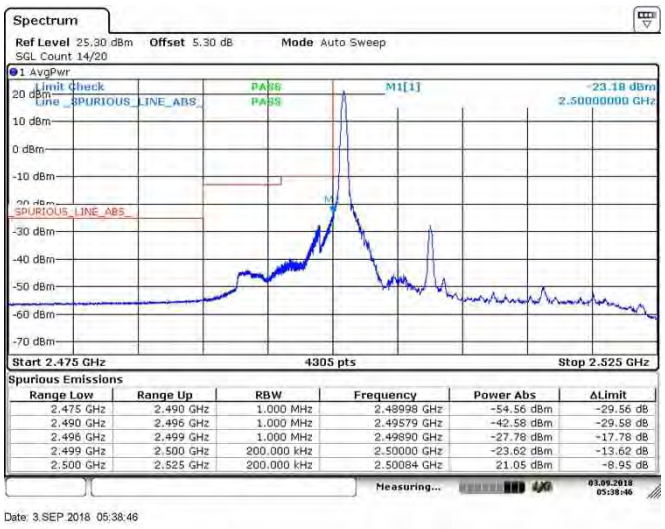
Date: 3.SEP.2018 04:49:25

BAND 7_15MHz_16QAM_21375_75RB#0



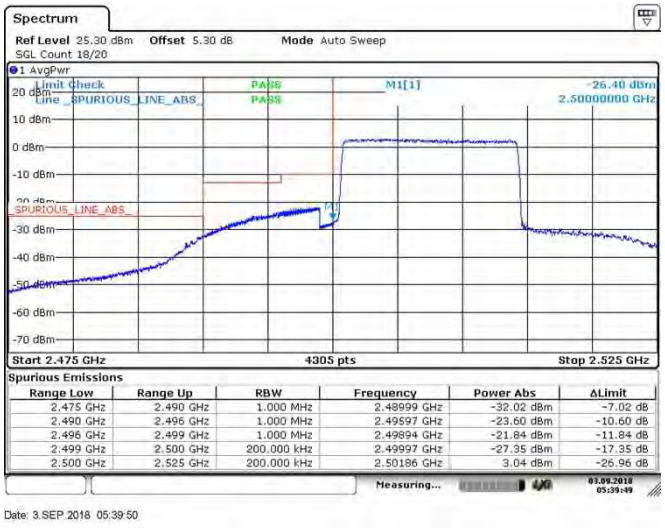
Date: 3.SEP.2018 04:50:24

BAND 7_15MHz_64QAM_20825_1RB#0



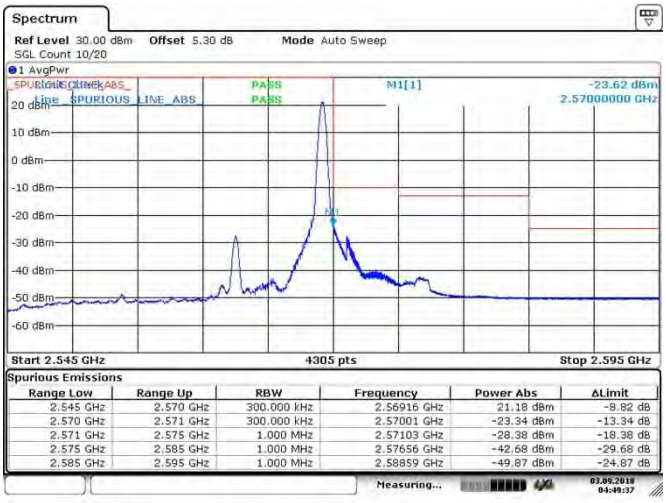
Date: 3.SEP.2018 05:38:46

BAND 7_15MHz_64QAM_20825_75RB#0



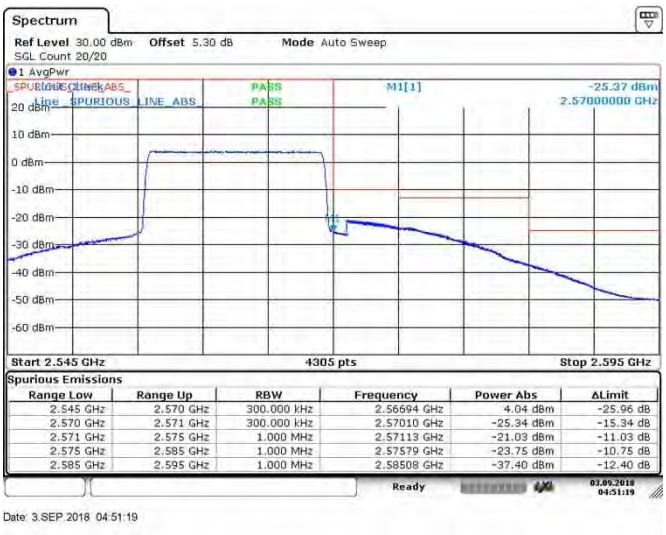
Date: 3.SEP.2018 05:39:50

BAND 7_15MHz_64QAM_21375_1RB#74



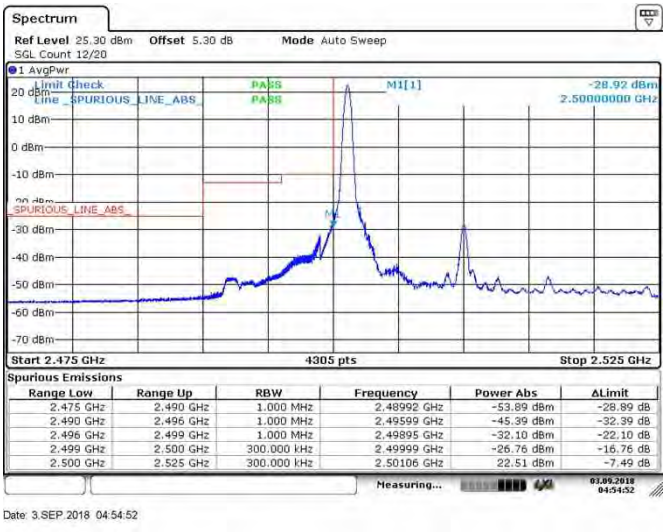
Date: 3.SEP.2018 04:49:38

BAND 7_15MHz_64QAM_21375_75RB#0



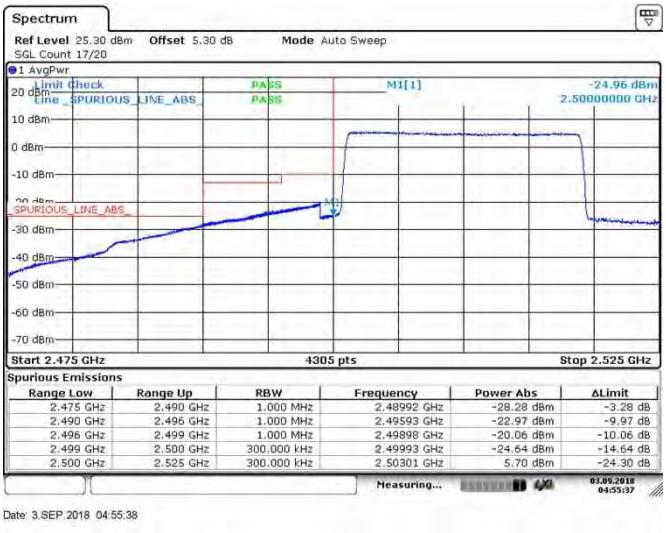
Date: 3.SEP.2018 04:51:19

BAND 7_20MHz_QPSK_20850_1RB#0



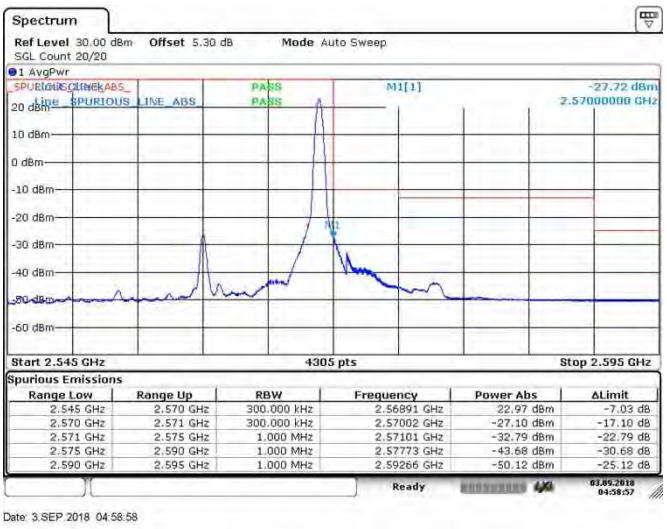
Date: 3.SEP.2018 04:54:52

BAND 7_20MHz_QPSK_20850_100RB#0



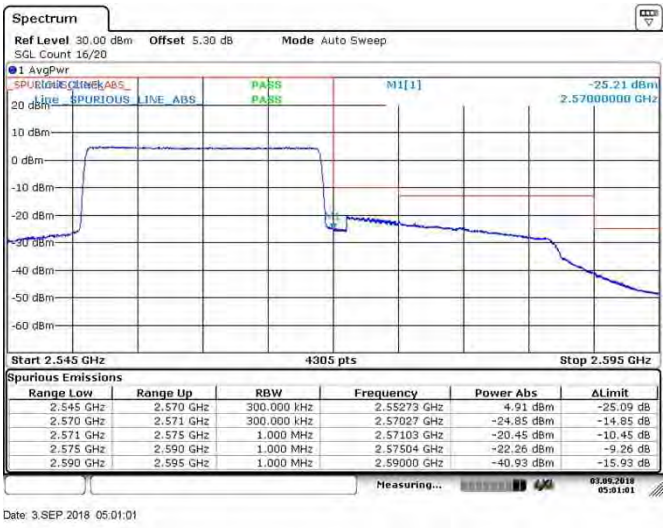
Date: 3.SEP.2018 04:55:38

BAND 7_20MHz_QPSK_21350_1RB#99



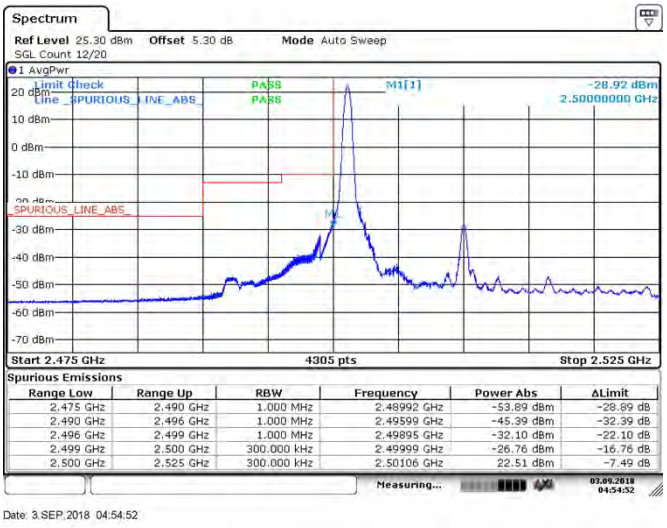
Date: 3.SEP.2018 04:58:58

BAND 7_20MHz_QPSK_21350_100RB#0



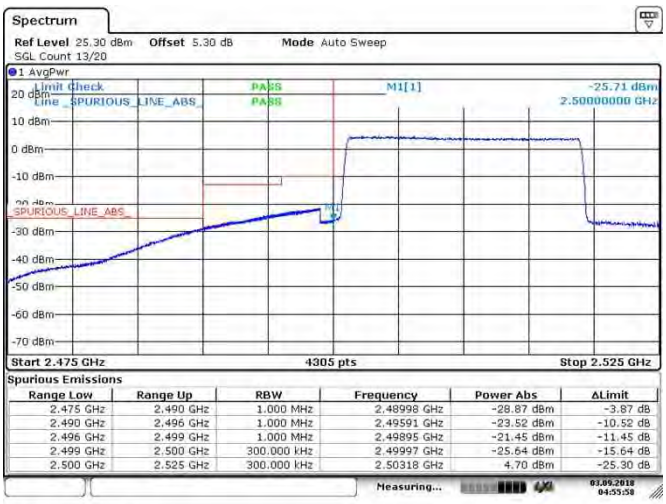
Date: 3.SEP.2018 05:01:01

BAND 7_20MHz_16QAM_20850_1RB#0



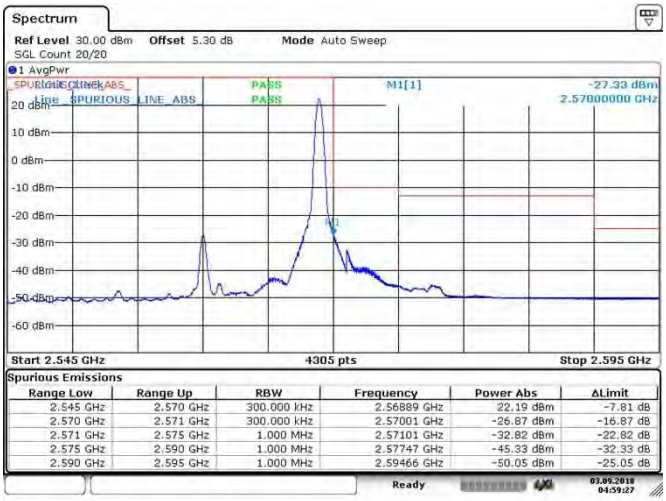
Date: 3.SEP.2018 04:54:52

BAND 7_20MHz_16QAM_20850_100RB#0



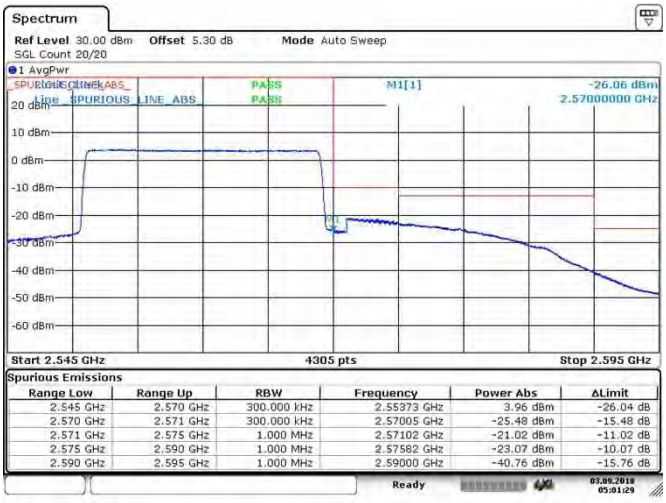
Date: 3.SEP 2018 04:55:59

BAND 7_20MHz_16QAM_21350_1RB#99



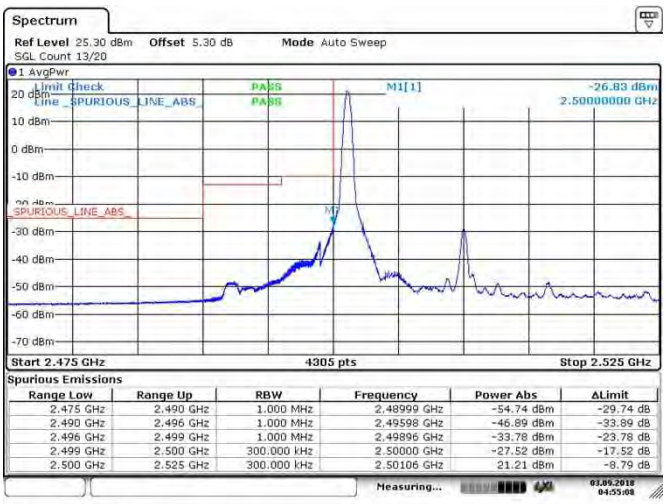
Date: 3.SEP 2018 04:59:28

BAND 7_20MHz_16QAM_21350_100RB#0



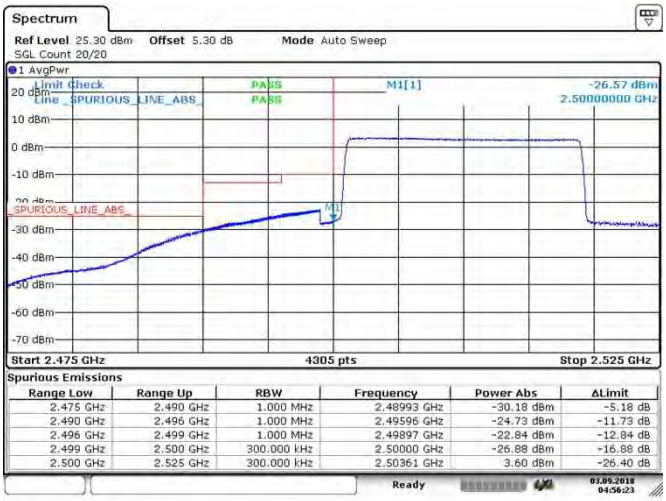
Date: 3.SEP 2018 05:01:29

BAND 7_20MHz_64QAM_20850_1RB#0



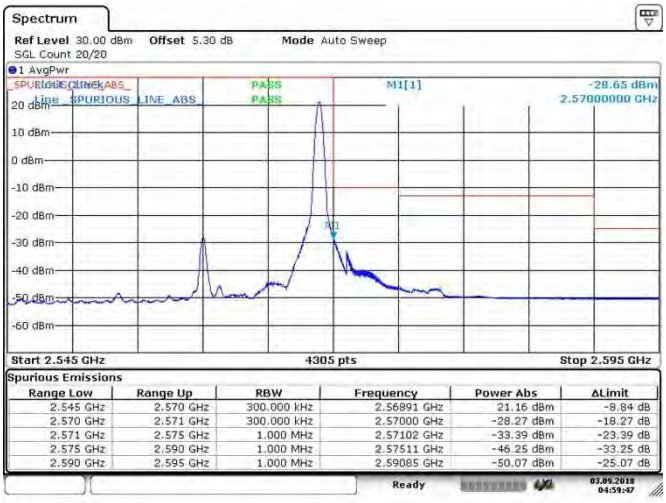
Date: 3.SEP.2018 04:55:08

BAND 7_20MHz_64QAM_20850_100RB#0



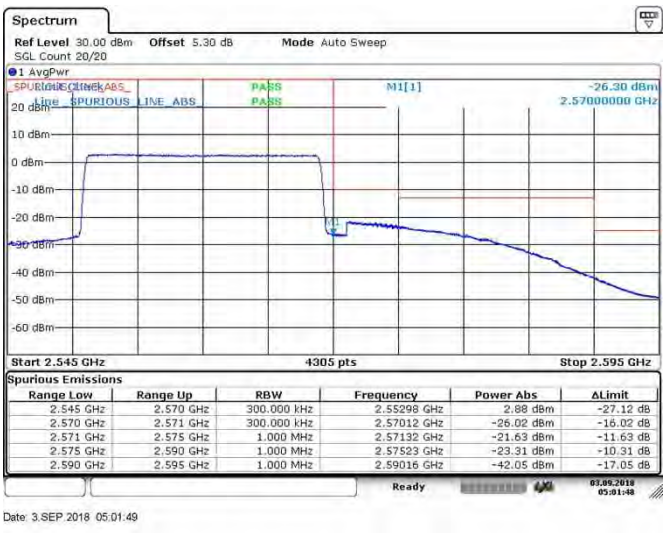
Date: 3.SEP.2018 04:56:23

BAND 7_20MHz_64QAM_21350_1RB#99



Date: 3.SEP.2018 04:59:47

BAND 7_20MHz_64QAM_21350_100RB#0



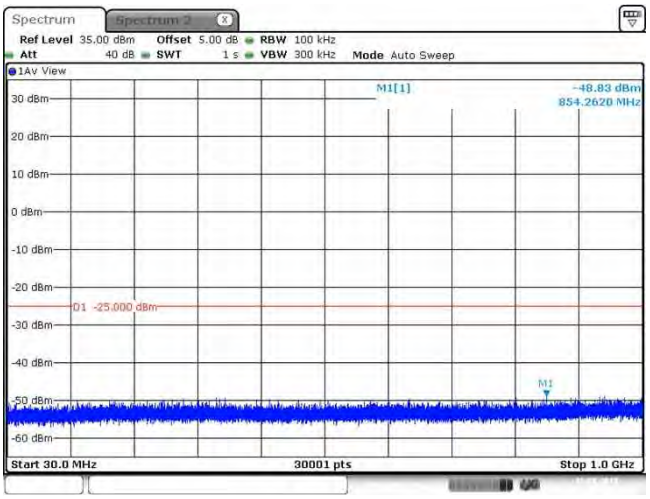
6. Spurious Emission at Antenna Terminal

NOTE1: 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 * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

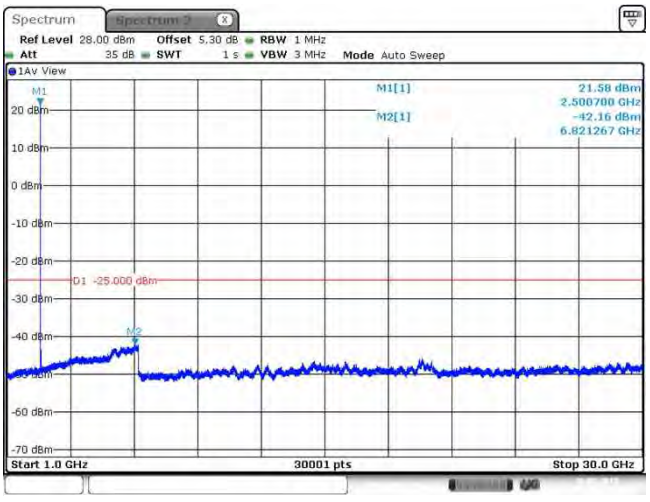
NOTE2: only the worst case data displayed in this report.

6.1. Test Plots

BAND 7_20MHz_QPSK_20850_1RB#0

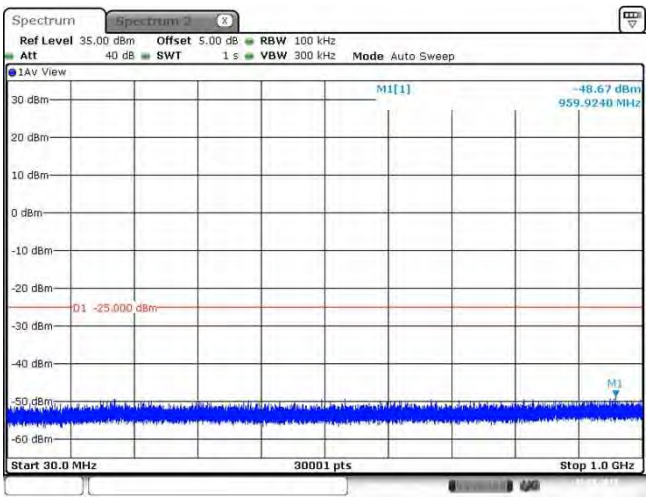


Date: 10.AUG.2018 10:35:49

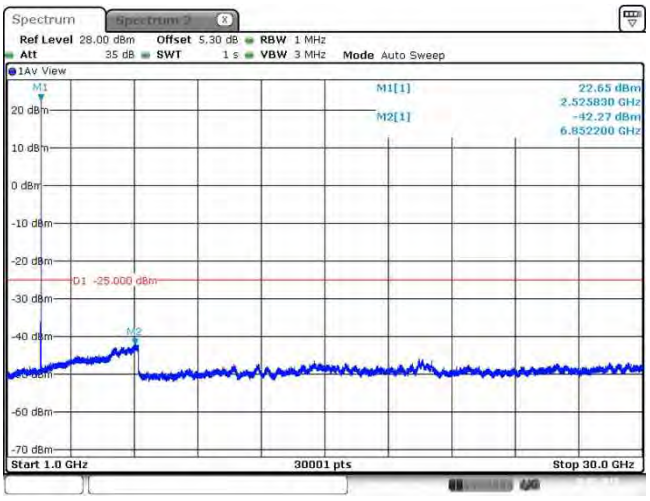


Date: 10.AUG.2018 10:36:05

BAND 7_20MHz_QPSK_21100_1RB#0

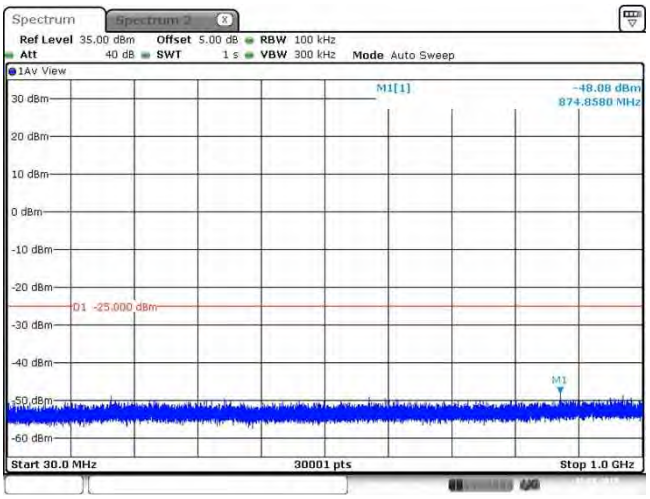


Date: 10.AUG.2018 10:37:49

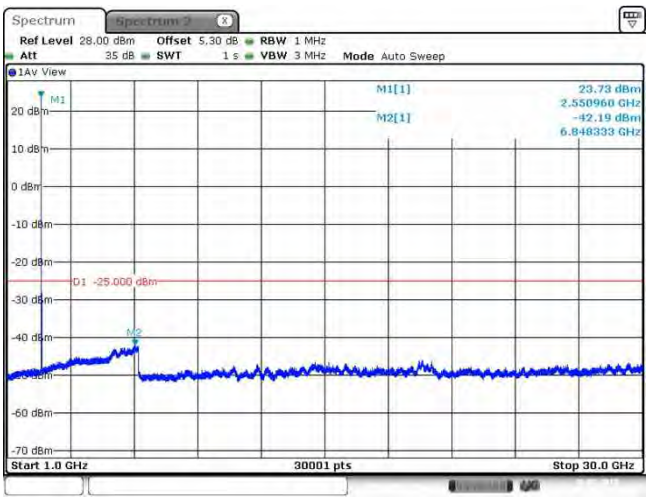


Date: 10.AUG.2018 10:38:05

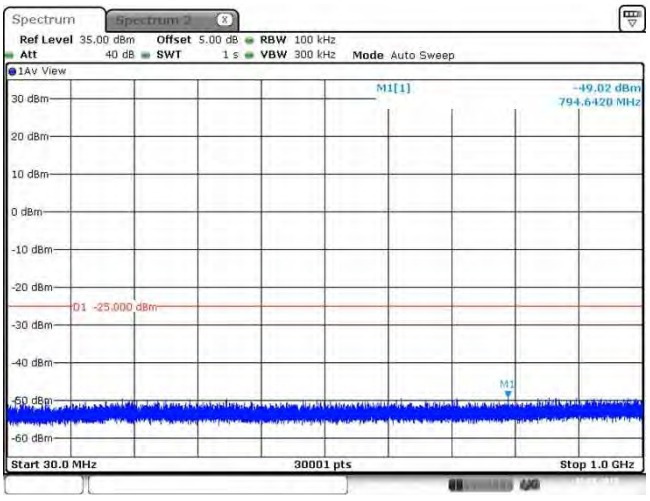
BAND 7_20MHz_QPSK_21350_1RB#0

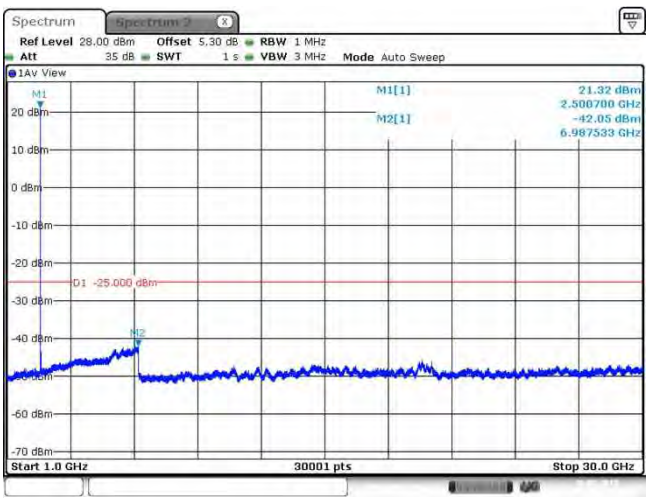


Date: 10.AUG.2018 10:39:39

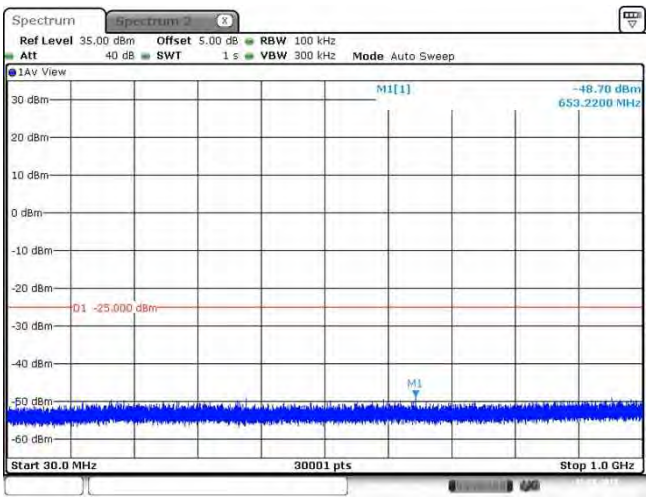


BAND 7_20MHz_16QAM_20850_1RB#0

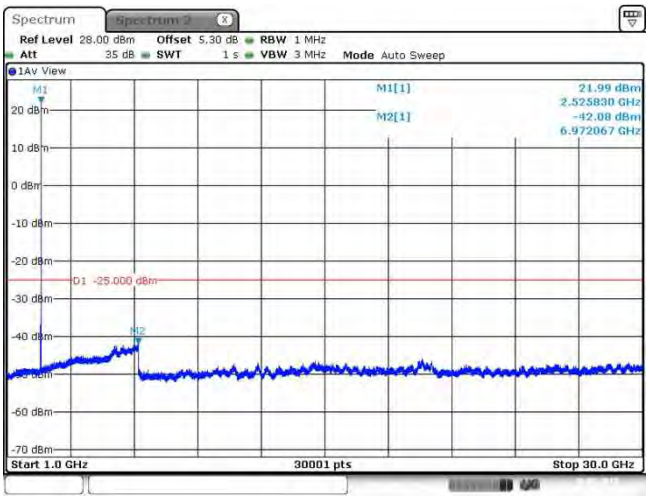




BAND 7_20MHz_16QAM_21100_1RB#0

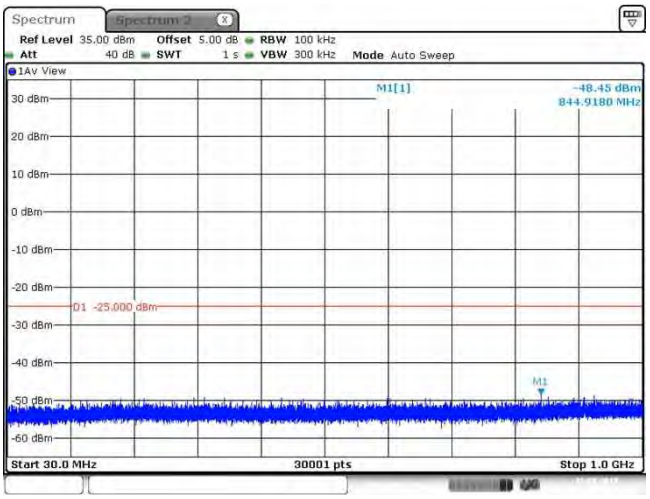


Date:10.AUG.2018 10:38:24

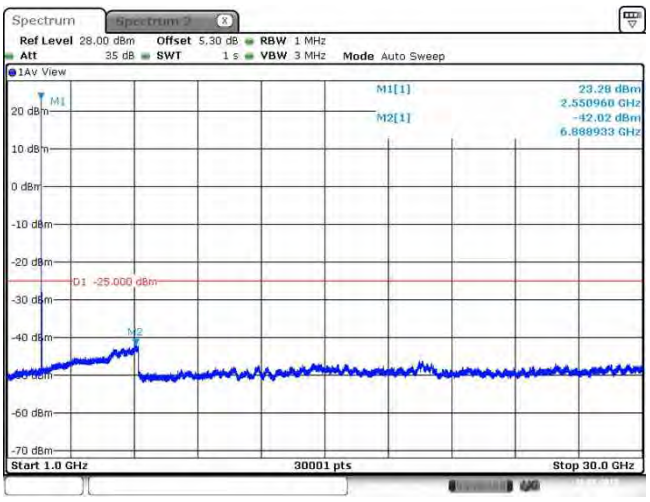


Date:10.AUG.2018 10:38:40

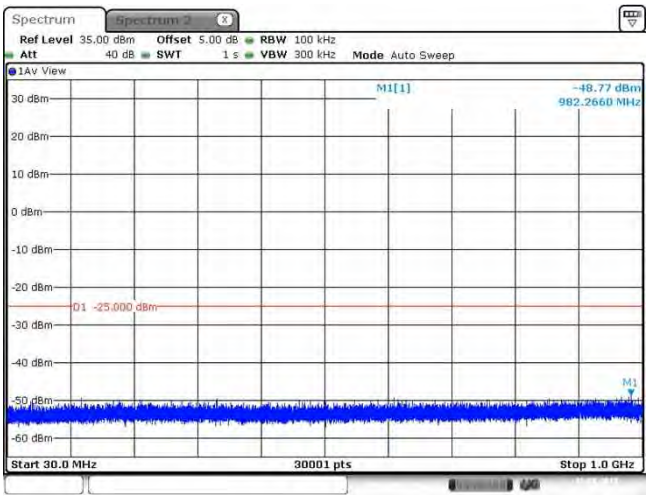
BAND 7_20MHz_16QAM_21350_1RB#0

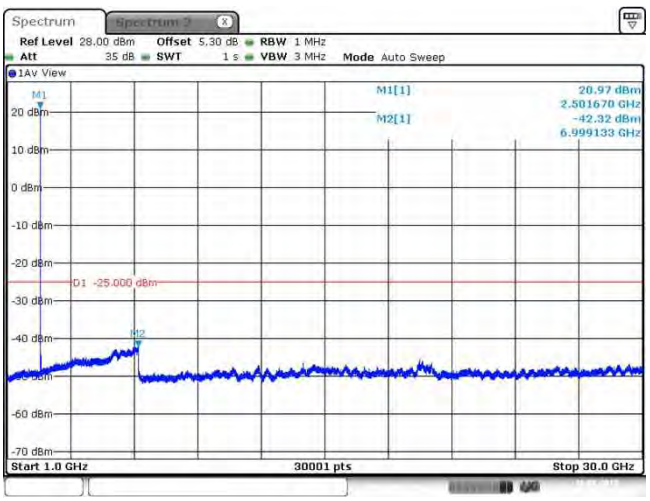


Date:10.AUG.2018 10:40:14

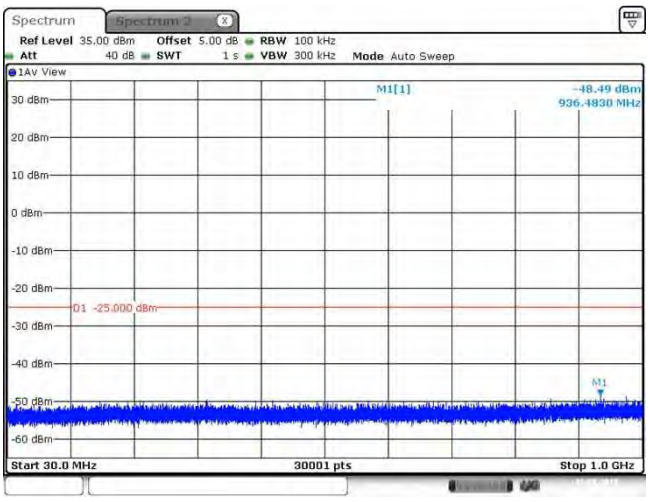


BAND 7_20MHz_64QAM_20850_1RB#0

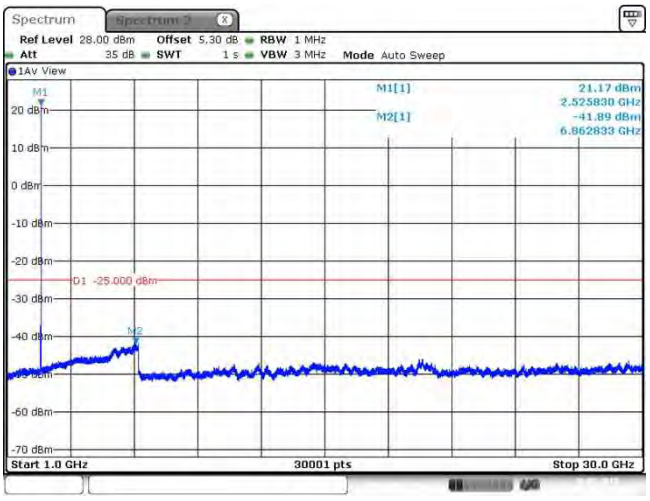




BAND 7_20MHz_64QAM_21100_1RB#0

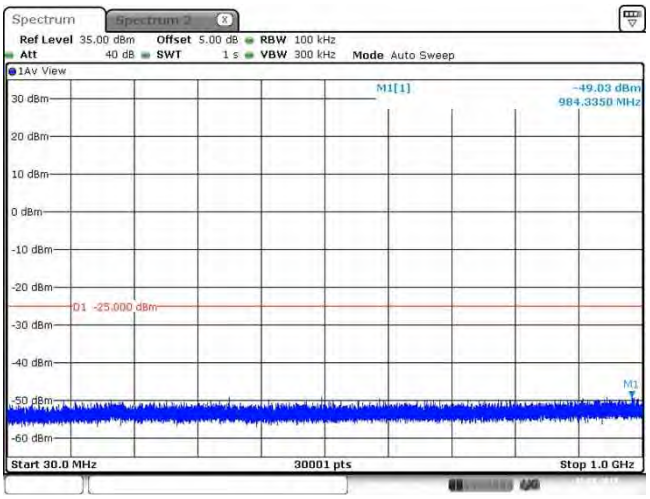


Date: 10.AUG.2018 10:38:59

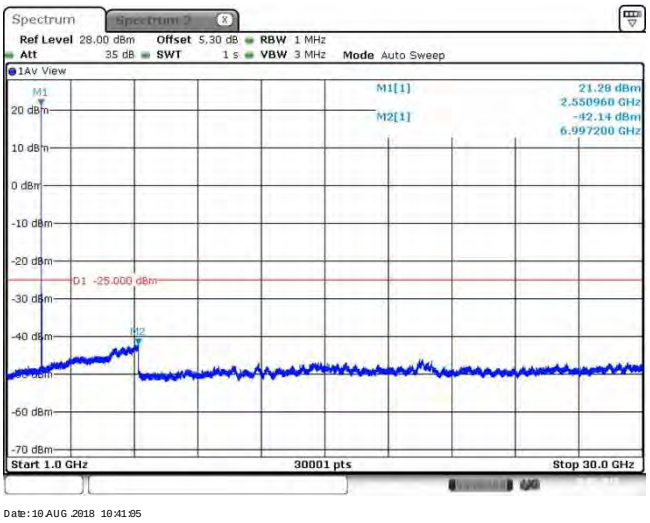


Date: 10.AUG.2018 10:39:15

BAND 7_20MHz_64QAM_21350_1RB#0



Date: 10.AUG.2018 10:40:49



7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 7

7.1.1. Test Mode =LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.050000	-81.72	-25.00	56.72	Vertical
104.250000	-65.37	-25.00	40.37	Vertical
1980.500000	-52.80	-25.00	27.80	Vertical
3908.700000	-68.18	-25.00	43.18	Vertical
5002.000000	-65.35	-25.00	40.35	Vertical
7932.200000	-63.76	-25.00	38.76	Vertical
55.850000	-78.09	-25.00	53.09	Horizontal
104.300000	-81.12	-25.00	56.12	Horizontal
1980.500000	-49.03	-25.00	24.03	Horizontal
4293.825000	-66.87	-25.00	41.87	Horizontal
5002.000000	-65.55	-25.00	40.55	Horizontal
7960.475000	-63.75	-25.00	38.75	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.150000	-81.80	-25.00	56.80	Vertical
104.300000	-65.39	-25.00	40.39	Vertical
2005.500000	-56.38	-25.00	31.38	Vertical
3893.750000	-68.08	-25.00	43.08	Vertical
5052.050000	-64.60	-25.00	39.60	Vertical
7954.300000	-63.77	-25.00	38.77	Vertical
62.600000	-78.01	-25.00	53.01	Horizontal
104.300000	-80.80	-25.00	55.80	Horizontal
2005.500000	-49.29	-25.00	24.29	Horizontal
4293.825000	-66.93	-25.00	41.93	Horizontal
5052.050000	-63.91	-25.00	38.91	Horizontal
9236.100000	-63.79	-25.00	38.79	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.950000	-82.38	-25.00	57.38	Vertical
124.950000	-87.14	-25.00	62.14	Vertical
345.450000	-86.11	-25.00	61.11	Vertical
5102.100000	-63.51	-25.00	38.51	Vertical
7856.475000	-63.73	-25.00	38.73	Vertical
10634.575000	-63.12	-25.00	38.12	Vertical
62.250000	-77.93	-25.00	52.93	Horizontal
104.250000	-85.75	-25.00	60.75	Horizontal
473.008333	-84.16	-25.00	59.16	Horizontal
5102.100000	-65.41	-25.00	40.41	Horizontal
7238.325000	-64.84	-25.00	39.84	Horizontal
10631.325000	-63.49	-25.00	38.49	Horizontal

NOTE:

1) All modes are tested, but the data presented above is the worst case.the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND7	20MHz	QPSK	20850	100RB#0	VH	NT	-0.90	-0.000359	±2.5	PASS
				100RB#0	VL	NT	-3.90	-0.001554	±2.5	PASS
				100RB#0	VN	NT	-0.70	-0.000279	±2.5	PASS
			21100	100RB#0	VH	NT	0.20	0.000079	±2.5	PASS
				100RB#0	VL	NT	-1.60	-0.000631	±2.5	PASS
				100RB#0	VN	NT	-3.20	-0.001262	±2.5	PASS
			21350	100RB#0	VH	NT	1.10	0.000430	±2.5	PASS
				100RB#0	VL	NT	0.20	0.000078	±2.5	PASS
				100RB#0	VN	NT	0.80	0.000313	±2.5	PASS
		16QAM	20850	100RB#0	VH	NT	2.40	0.000956	±2.5	PASS
				100RB#0	VL	NT	0.30	0.000120	±2.5	PASS
				100RB#0	VN	NT	-0.40	-0.000159	±2.5	PASS
			21100	100RB#0	VH	NT	-2.30	-0.000907	±2.5	PASS
				100RB#0	VL	NT	-1.60	-0.000631	±2.5	PASS
				100RB#0	VN	NT	-0.60	-0.000237	±2.5	PASS
			21350	100RB#0	VH	NT	-2.50	-0.000977	±2.5	PASS
				100RB#0	VL	NT	-1.30	-0.000508	±2.5	PASS
				100RB#0	VN	NT	-0.20	-0.000078	±2.5	PASS
		64QAM	20850	100RB#0	VH	NT	-1.50	-0.000598	±2.5	PASS
				100RB#0	VL	NT	0.70	0.000279	±2.5	PASS
				100RB#0	VN	NT	4.10	0.001633	±2.5	PASS
			21100	100RB#0	VH	NT	-0.30	-0.000118	±2.5	PASS
				100RB#0	VL	NT	0.50	0.000197	±2.5	PASS
				100RB#0	VN	NT	0.80	0.000316	±2.5	PASS
			21350	100RB#0	VH	NT	-0.30	-0.000117	±2.5	PASS
				100RB#0	VL	NT	0.30	0.000117	±2.5	PASS
				100RB#0	VN	NT	-0.30	-0.000117	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND7	20MHz	QPSK	20850	100RB#0	NV	0	-0.30	-0.000120	±2.5	PASS
				100RB#0	NV	10	1.70	0.000677	±2.5	PASS
				100RB#0	NV	20	-2.90	-0.001155	±2.5	PASS
				100RB#0	NV	-20	0.90	0.000359	±2.5	PASS
				100RB#0	NV	-30	0.60	0.000239	±2.5	PASS
			21100	100RB#0	NV	0	1.40	0.000552	±2.5	PASS
				100RB#0	NV	10	0.20	0.000079	±2.5	PASS
				100RB#0	NV	20	0.70	0.000276	±2.5	PASS
				100RB#0	NV	-20	0.60	0.000237	±2.5	PASS
				100RB#0	NV	-30	-1.00	-0.000394	±2.5	PASS
			21350	100RB#0	NV	0	-0.30	-0.000117	±2.5	PASS
				100RB#0	NV	10	0.50	0.000195	±2.5	PASS
				100RB#0	NV	20	0.20	0.000078	±2.5	PASS
				100RB#0	NV	-20	-0.40	-0.000156	±2.5	PASS
				100RB#0	NV	-30	0.40	0.000156	±2.5	PASS
		16QAM	20850	100RB#0	NV	0	0.80	0.000319	±2.5	PASS
				100RB#0	NV	10	2.00	0.000797	±2.5	PASS
				100RB#0	NV	20	-1.30	-0.000518	±2.5	PASS
				100RB#0	NV	-20	1.80	0.000717	±2.5	PASS
				100RB#0	NV	-30	1.10	0.000438	±2.5	PASS
			21100	100RB#0	NV	0	-1.50	-0.000592	±2.5	PASS
				100RB#0	NV	10	-0.70	-0.000276	±2.5	PASS
				100RB#0	NV	20	0.30	0.000118	±2.5	PASS
				100RB#0	NV	-20	-1.00	-0.000394	±2.5	PASS
				100RB#0	NV	-30	-0.90	-0.000355	±2.5	PASS
			21350	100RB#0	NV	0	3.10	0.001211	±2.5	PASS
				100RB#0	NV	10	0.40	0.000156	±2.5	PASS
				100RB#0	NV	20	0.20	0.000078	±2.5	PASS
				100RB#0	NV	-20	0.40	0.000156	±2.5	PASS
				100RB#0	NV	-30	0.60	0.000234	±2.5	PASS
		64QAM	20850	100RB#0	NV	0	2.20	0.000876	±2.5	PASS
				100RB#0	NV	10	0.10	0.0004	±2.5	PASS
				100RB#0	NV	20	0.90	0.000359	±2.5	PASS
				100RB#0	NV	-20	-1.50	-0.000598	±2.5	PASS
				100RB#0	NV	-30	1.30	0.000518	±2.5	PASS

			21100	100RB#0	NV	0	-0.10	-0.000039	±2.5	PASS
				100RB#0	NV	10	0.30	0.000118	±2.5	PASS
				100RB#0	NV	20	-0.40	-0.000158	±2.5	PASS
				100RB#0	NV	-20	1.40	0.000552	±2.5	PASS
				100RB#0	NV	-30	1.10	0.000434	±2.5	PASS
			21350	100RB#0	NV	0	1.90	0.000742	±2.5	PASS
				100RB#0	NV	10	0.30	0.000117	±2.5	PASS
				100RB#0	NV	20	0.80	0.000313	±2.5	PASS
				100RB#0	NV	-20	1.00	0.000391	±2.5	PASS
				100RB#0	NV	-30	0.00	0.000000	±2.5	PASS

The End

a